

FCC 47 CFR PART 22H and 24E

Product Type : PDA Phone
Applicant : VERZO Technology, LLC.
Address : Delnicka 12, Praha 7, Prague, 17000, Czech Republic
Trade Name : VERZO
Model Number : KINZO
Test : FCC 47 CFR PART 22H: Oct, 2009
Specification : FCC 47 CFR PART 24E: Oct, 2009
ANSI/TIA-603-C-2004
Application : Original
Purpose:
Receive Date : Aug. 23, 2011
Issue Date : Nov. 25, 2011

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Nov. 10, 2011	Initial Issue	
01	Nov. 25, 2011	Revised output power and remove conducted emission results.	Joyce Liao

Verification of Compliance

Issued Date: 2011/11/25

Product Type : PDA Phone
Applicant : VERZO Technology, LLC.
Address : Delnicka 12, Praha 7, Prague, 17000, Czech Republic
Trade Name : VERZO
Model Number : KINZO
FCC ID : Z2UKINZO
EUT Rated Voltage : DC 5.0V, 1000mA
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 22H: Oct, 2009
Standard : FCC 47 CFR PART 24E: Oct, 2009
ANSI/TIA-603-C-2004

Application : Original
Purpose

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.

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Taiwan Accreditation Foundation accreditation number:
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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: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.

The test results of this report relate only to the tested sample identified in this report.

Approved By :



(Manager)

(Alex Wu)

Reviewed By :



(Testing Engineer)

(Fly Lu)

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1 General Information

1.1. EUT Description

Applicant		VERZO Technology, LLC.			
Applicant Address		Delnicka 12, Praha 7, Prague, 17000, Czech Republic			
Manufacturer		VERZO Technology, LLC.			
Manufacturer Address		Delnicka 12, Praha 7, Prague, 17000, Czech Republic			
Product Type		PDA Phone			
Trade Name		VERZO			
Model Number		KINZO			
FCC ID		Z2UKINZO			
IMEI No.		359112042004804			
Mode	GSM/GPRS/ EGPRS	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK/8PSK
		1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK/8PSK
	WCDMA/ HSDPA/ HSUPA/	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		Internal Antenna			
Antenna Gain (dBi)		GSM/GPRS/EGPRS 850: -3.0 dBi GSM/GPRS/EGPRS 1900: -3.4 dBi WCDMA/HSDPA/HSUPA Band II: -3.1 dBi WCDMA/HSDPA/HSUPA Band V: -3.0 dBi			
Max. RF Output power		GSM/GPRS 850: 32.80 dBm / 1.905 W, EGPRS 850: 30.20 dBm / 1.047 W GSM/GPRS 1900: 29.70 dBm / 0.933 W, EGPRS 1900: 28.90 dBm / 0.776 W WCDMA/HSDPA/HSUPA Band II: 27.20 dBm / 0.525 W WCDMA/HSDPA/HSUPA Band V: 27.27 dBm / 0.533 W			
Max. ERP/EIRP		GSM/GPRS 850: 31.50 dBm / 1.413 W, EGPRS 850: 27.43 dBm / 0.553 W GSM/GPRS 1900: 28.43 dBm / 0.697 W, EGPRS 1900: 25.09 dBm / 0.323 W WCDMA/HSDPA/HSUPA Band II: 23.69 dBm / 0.234 W WCDMA/HSDPA/HSUPA Band V: 24.71 dBm / 0.296 W			
Emission Designator		GSM/GPRS 850: 245KGXW, EGPRS 850: 251KG7W GSM/GPRS 1900: 246KGXW, EGPRS 1900: 245KG7W WCDMA/HSDPA/HSUPA Band II: 4M06F9W WCDMA/HSDPA/HSUPA Band V: 4M06F9W			
Component					
Battery		Model: U-5002			
		3.7 Vdc, 1530mAh			
Power Adapter		TINYPLUG, TPUU1000			
		Input:100-240Vac, 50-60Hz, 120mA			
		Output: 5.0Vdc, 1000mA			
		Cable out: Shielded, 1.0 m			

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

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.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Tested System Details

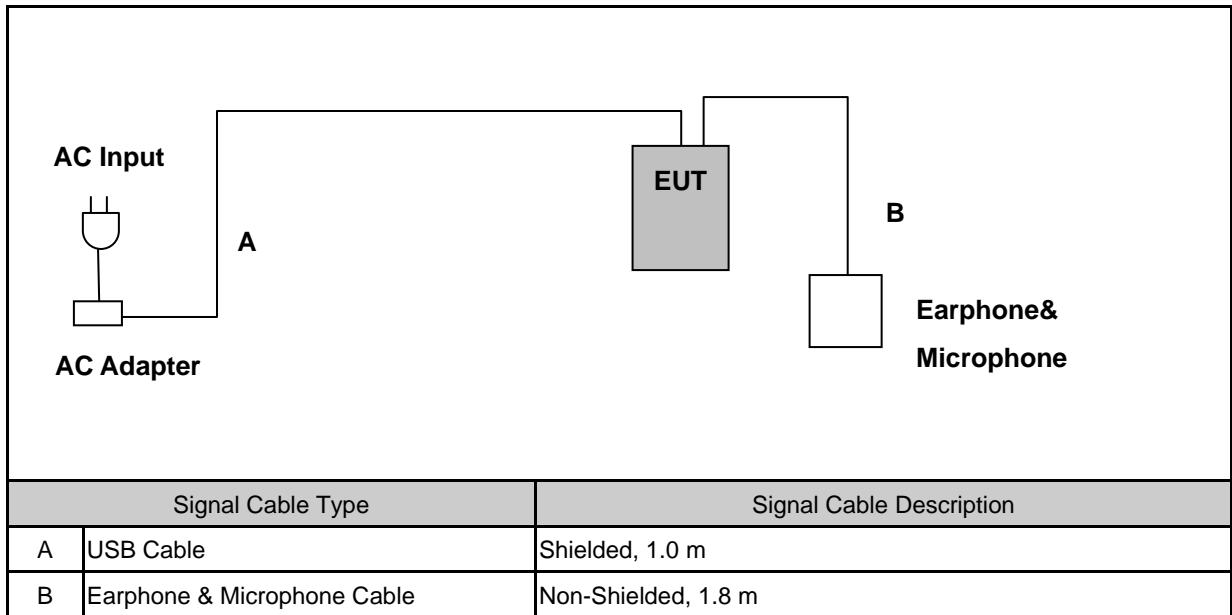
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

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

1.3. EUT Exercise Software

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

1.4. Configuration of Test System Details



1.5. Test Site Environment

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

1.6. Summary of Test Result

Description	FCC Rule	IC Rule	Limit	Result
Conducted Output Power	§2.1046	N/A	N/A	Pass
Effective Radiated Power	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	< 7 Watts for FCC (<6.3 Watts for IC)	Pass
Equivalent Isotropic Radiated Power	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	< 2 Watts	Pass
Occupied Bandwidth	§2.1049 §22.917(a) §24.238(a)	N/A	N/A	Pass
Band Edge Measurement	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1)RSS-133 (6.5.1)	< 43+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

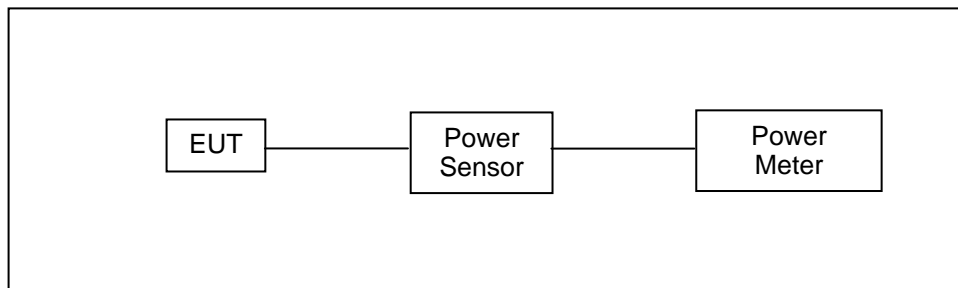
2.2. Test Instruments

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

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

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

2.3. Test Setup



2.4. Test Procedure

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

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

2.5. Uncertainty

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

2.6. Test Result

Model Number	KINZO					
Test Item	RF Output Power					
Date of Test	09/28/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 850	-----	824.2	32.30	1.698	32.80	1.905
		836.4	32.30	1.698	32.60	1.820
		848.8	32.70	1.862	32.40	1.738
GRRS 850	4Down1Up	824.2	32.30	1.698	32.60	1.820
		836.4	32.30	1.698	32.60	1.820
		848.8	32.40	1.738	32.70	1.862
	3Down2Up	824.2	32.30	1.698	32.60	1.820
		836.4	32.30	1.698	32.60	1.820
		848.8	32.40	1.738	32.70	1.862
EGPRS 850	4Down1Up	824.2	27.50	0.562	30.20	1.047
		836.4	27.50	0.562	30.20	1.047
		848.8	27.40	0.550	30.20	1.047
	3Down2Up	824.2	27.30	0.537	30.10	1.023
		836.4	27.40	0.550	30.20	1.047
		848.8	27.30	0.537	30.10	1.023

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

Model Number	KINZO					
Test Item	RF Output Power					
Date of Test	09/28/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 1900	-----	1850.2	29.40	0.871	29.70	0.933
		1880.0	29.30	0.851	29.40	0.871
		1909.8	29.30	0.851	29.50	0.891
GRRS 1900	4Down1Up	1850.2	29.40	0.871	29.60	0.912
		1909.8	29.30	0.851	29.40	0.871
		1909.8	29.30	0.851	29.50	0.891
	3Down2Up	1850.2	29.40	0.871	29.60	0.912
		1909.8	29.30	0.851	29.50	0.891
		1909.8	29.30	0.851	29.50	0.891
EGPRS 1900	4Down1Up	1850.2	25.80	0.380	28.90	0.776
		1880.0	25.70	0.372	28.80	0.759
		1909.8	25.80	0.380	28.90	0.776
	3Down2Up	1850.2	25.80	0.380	28.90	0.776
		1909.8	29.40	0.871	28.80	0.759
		1909.8	29.30	0.851	28.90	0.776

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

Model Number	KINZO					
Test Item	RF Output Power					
Date of Test	09/28/2011			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band II	-----	1852.4	23.41	0.219	27.20	0.525
		1880.0	23.27	0.212	27.04	0.506
		1907.6	23.26	0.212	27.10	0.513
HSDPA Band II	1	1852.4	22.63	0.183	26.42	0.439
		1880.0	22.50	0.178	26.27	0.424
		1907.6	22.53	0.179	26.37	0.434
	2	1852.4	22.60	0.182	26.39	0.436
		1880.0	22.47	0.177	26.24	0.421
		1907.6	22.49	0.177	26.33	0.430
	3	1852.4	22.10	0.162	25.88	0.387
		1880.0	21.98	0.158	25.76	0.377
		1907.6	22.01	0.159	25.85	0.385
	4	1852.4	22.11	0.163	25.90	0.389
		1880.0	21.92	0.156	25.74	0.375
		1907.6	22.01	0.159	25.79	0.379
HSUPA Band II	1	1852.4	22.00	0.158	25.79	0.379
		1880.0	22.75	0.188	26.52	0.449
		1907.6	22.83	0.192	26.67	0.465
	2	1852.4	19.93	0.098	23.72	0.236
		1880.0	20.71	0.118	24.48	0.281
		1907.6	20.78	0.120	24.59	0.288
	3	1852.4	20.99	0.126	24.73	0.297
		1880.0	21.68	0.147	25.52	0.356
		1907.6	21.80	0.151	25.64	0.366
	4	1852.4	19.95	0.099	23.71	0.235
		1880.0	20.71	0.118	24.47	0.280
		1907.6	20.82	0.121	24.60	0.288
	5	1852.4	21.97	0.157	25.74	0.375
		1880.0	22.68	0.185	26.47	0.444
		1907.6	22.75	0.188	26.59	0.456

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

Model Number	KINZO					
Test Item	RF Output Power					
Date of Test	09/28/2011			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band V	-----	826.4	23.56	0.227	27.27	0.533
		836.6	23.47	0.222	27.10	0.513
		846.4	23.52	0.225	27.07	0.509
HSDPA Band V	1	826.4	23.00	0.200	26.73	0.471
		836.6	22.90	0.195	26.56	0.453
		846.4	23.03	0.201	26.68	0.466
	2	826.4	23.01	0.200	26.74	0.472
		836.6	22.90	0.195	26.56	0.453
		846.4	23.00	0.200	26.65	0.462
	3	826.4	22.46	0.176	26.17	0.414
		836.6	22.37	0.173	26.02	0.400
		846.4	22.48	0.177	26.18	0.415
	4	826.4	22.46	0.176	26.23	0.420
		836.6	22.39	0.173	26.03	0.401
		846.4	22.46	0.176	26.15	0.412
HSUPA Band V	1	826.4	23.00	0.200	26.73	0.471
		836.6	22.96	0.198	26.62	0.459
		846.4	23.01	0.200	26.66	0.463
	2	826.4	20.94	0.124	24.66	0.292
		836.6	20.92	0.124	24.57	0.286
		846.4	20.98	0.125	24.63	0.290
	3	826.4	21.96	0.157	25.65	0.367
		836.6	21.93	0.156	25.61	0.364
		846.4	22.00	0.158	25.64	0.366
	4	826.4	20.96	0.125	24.73	0.297
		836.6	20.91	0.123	24.61	0.289
		846.4	21.01	0.126	24.60	0.288
	5	826.4	22.97	0.198	26.68	0.466
		836.6	22.91	0.195	26.54	0.451
		846.4	22.96	0.198	26.57	0.454

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

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

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

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

3.2. Test Instruments

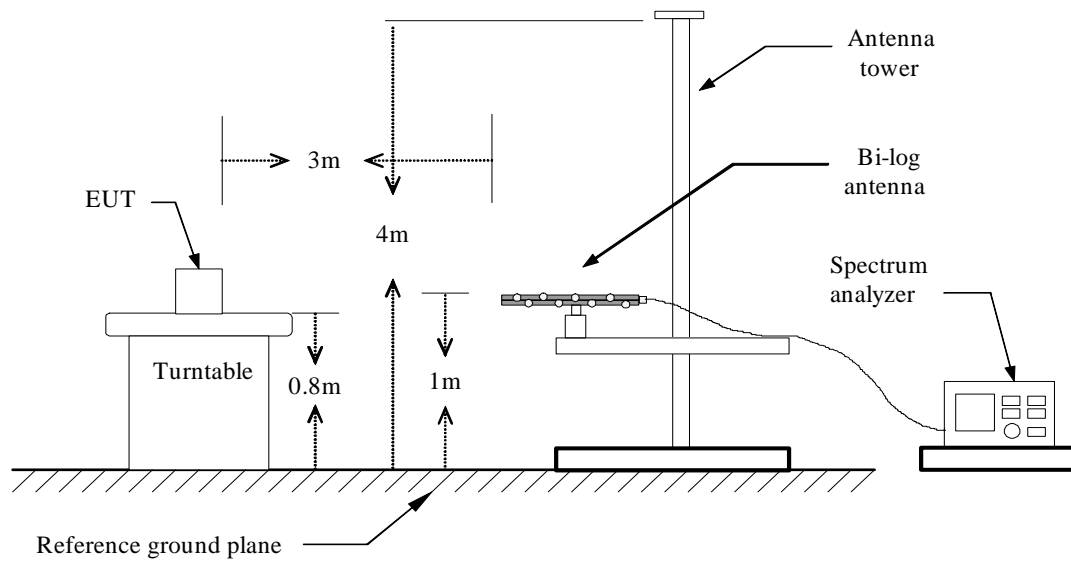
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/29/2011	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	12/24/2010	(1)

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

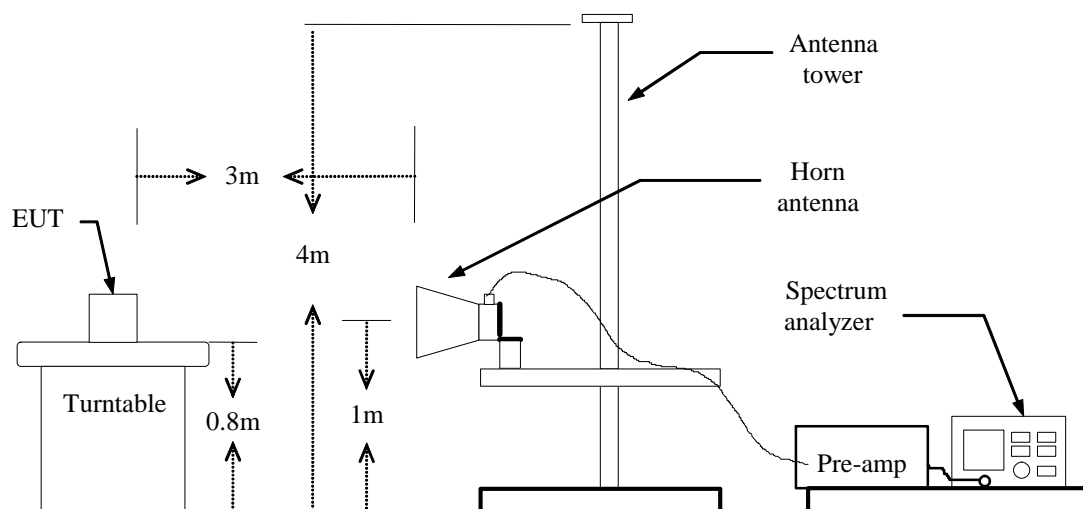
NOTE: N.C.R. = No Calibration Request.

3.3. Setup

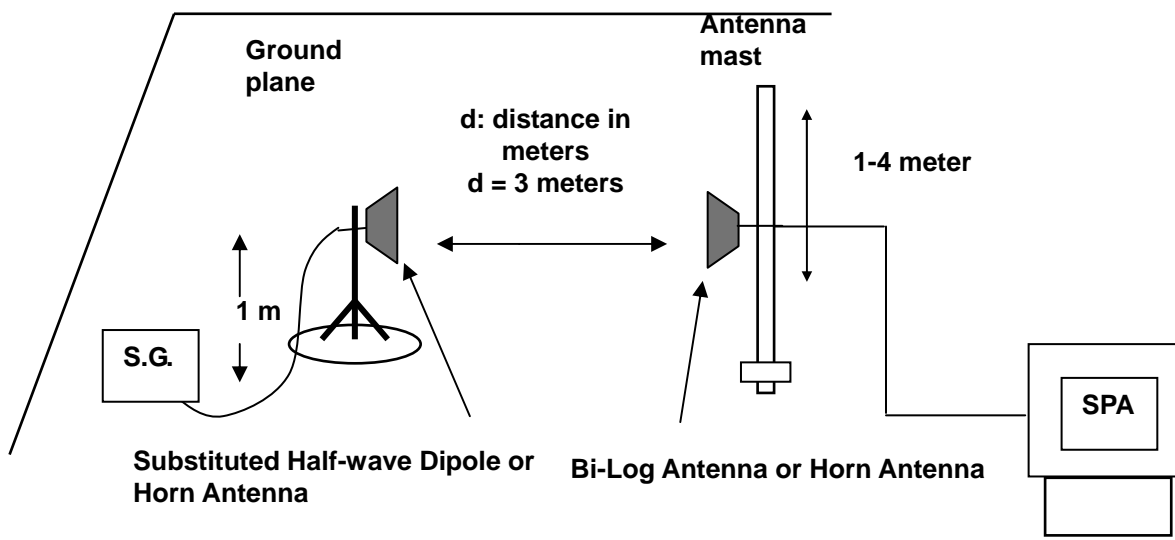
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

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

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

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

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

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

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

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	KINZO						
Test Item	ERP/EIRP						
Test Mode	Mode 1: GSM 850 Link						
Date of Test	11/05/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
GSM 850	824.2	H	15.71	11.95	27.66	0.583	< 7W
		V	20.21	11.29	31.50	1.413	< 7W
	836.4	H	15.20	12.07	27.27	0.533	< 7W
		V	20.06	11.34	31.40	1.380	< 7W
	848.8	H	14.89	12.50	27.39	0.548	< 7W
		V	18.86	11.46	30.32	1.076	< 7W
EGPRS 850	824.2	H	9.92	11.95	21.87	0.154	< 7W
		V	15.70	11.29	26.99	0.500	< 7W
	836.4	H	9.53	12.07	21.60	0.145	< 7W
		V	16.09	11.34	27.43	0.553	< 7W
	848.8	H	9.26	12.50	21.76	0.150	< 7W
		V	15.36	11.47	26.83	0.482	< 7W

Model Number	KINZO						
Test Item	ERP/EIRP						
Test Mode	Mode 2: GSM 1900 Link						
Date of Test	11/05/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
GSM 1900	1850.20	H	17.94	10.49	28.43	0.697	< 2W
		V	18.80	8.33	27.13	0.516	< 2W
	1880.00	H	16.27	10.51	26.78	0.476	< 2W
		V	18.89	8.57	27.46	0.557	< 2W
	1909.80	H	17.53	10.52	28.05	0.638	< 2W
		V	17.80	8.81	26.61	0.458	< 2W
EGPRS 1900	1850.20	H	14.60	10.49	25.09	0.323	< 2W
		V	15.50	8.33	23.83	0.242	< 2W
	1880.00	H	13.48	10.51	23.99	0.251	< 2W
		V	15.96	8.57	24.53	0.284	< 2W
	1909.80	H	14.47	10.52	24.99	0.316	< 2W
		V	14.76	8.80	23.56	0.227	< 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	KINZO						
Test Item	ERP/EIRP						
Test Mode	Mode 3: WCDMA Band II Link						
Date of Test	11/05/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
WCDMA Band II	1852.4	H	12.77	10.49	23.26	0.212	< 2W
		V	15.33	8.36	23.69	0.234	< 2W
	1880.0	H	12.19	10.51	22.70	0.186	< 2W
		V	14.67	8.58	23.25	0.211	< 2W
	1907.6	H	13.04	10.52	23.56	0.227	< 2W
		V	12.63	8.78	21.41	0.138	< 2W

Model Number	KINZO						
Test Item	ERP/EIRP						
Test Mode	Mode 4: WCDMA Band V Link						
Date of Test	11/05/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
HSDPA Band V	826.4	H	7.37	11.97	19.34	0.086	< 7W
		V	12.81	11.30	24.11	0.258	< 7W
	836.4	H	7.28	12.08	19.36	0.086	< 7W
		V	13.37	11.34	24.71	0.296	< 7W
	846.4	H	7.59	12.35	19.94	0.099	< 7W
		V	13.23	11.42	24.65	0.292	< 7W

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

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

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

4 Occupied Bandwidth Test

4.1. Limit

The Occupied Bandwidth Limit:

N/A.

The Band Edge Limit:

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

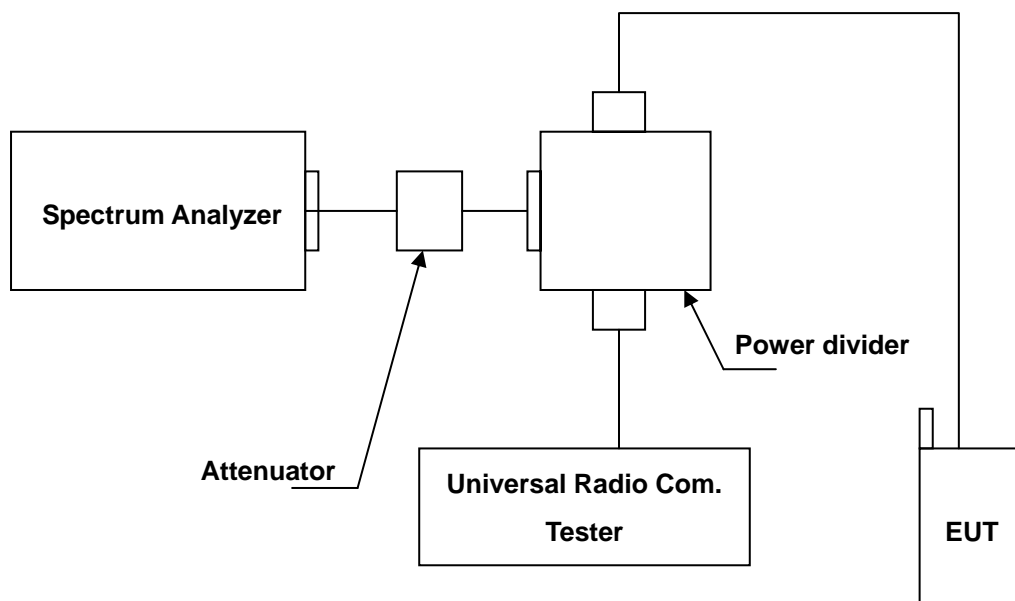
4.2. Test Instruments

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

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

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

4.3. Setup



4.4. Test Procedure

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

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.
3. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
4. The band edge setting:
 - a. RB=10 kHz; VB=30 kHz for GSM 850 and PCS 1900.
 - b. RB=100 kHz; VB=300 kHz for HSDPA Band V and WCDMA Band II.

4.5. Uncertainty

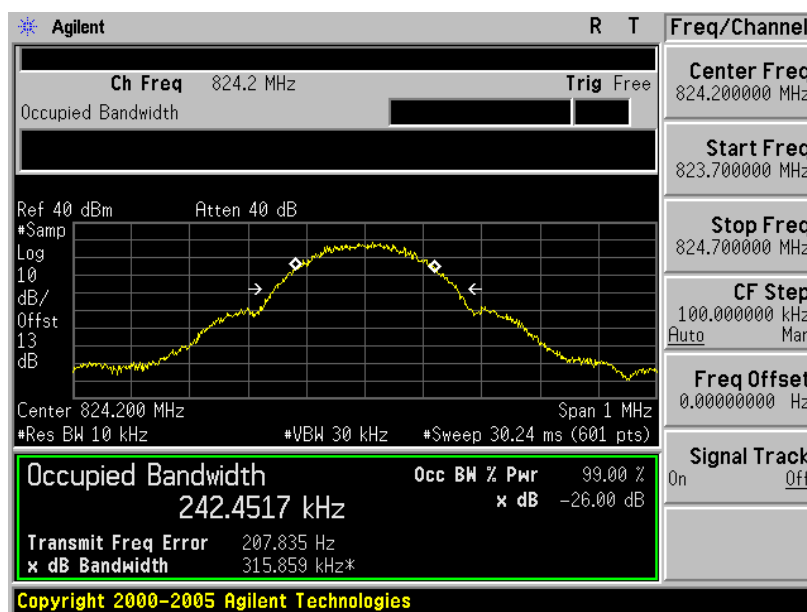
The measurement uncertainty is defined as $\pm 10\text{Hz}$

4.6. Test Result

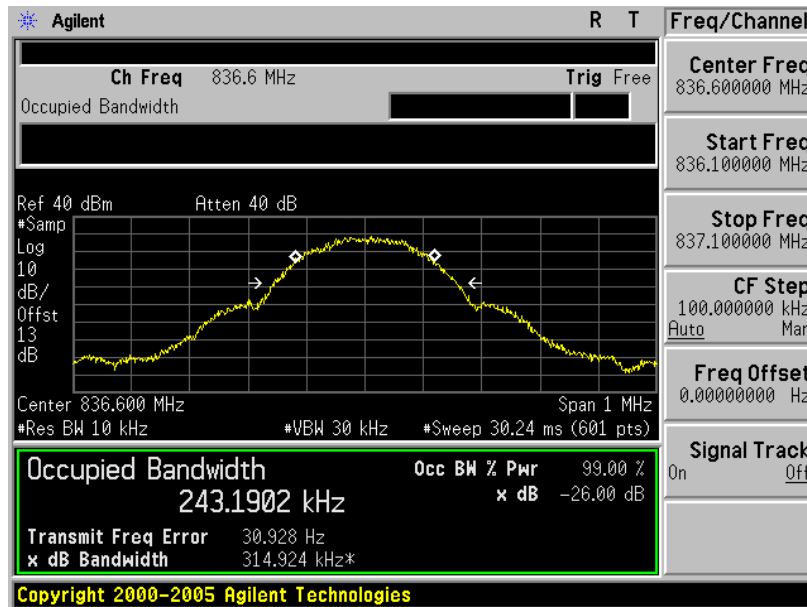
99% Occupied Bandwidth

Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	09/29/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	242.4517	RBW:10kHz , VBW:30kHz
190	836.4	243.1902	RBW:10kHz , VBW:30kHz
251	848.8	245.2339	RBW:10kHz , VBW:30kHz

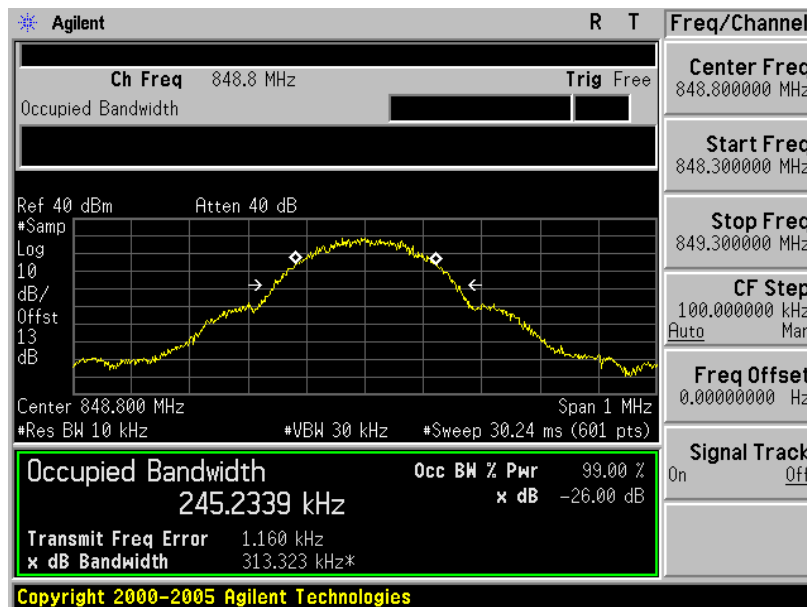
Channel 128



Channel 190

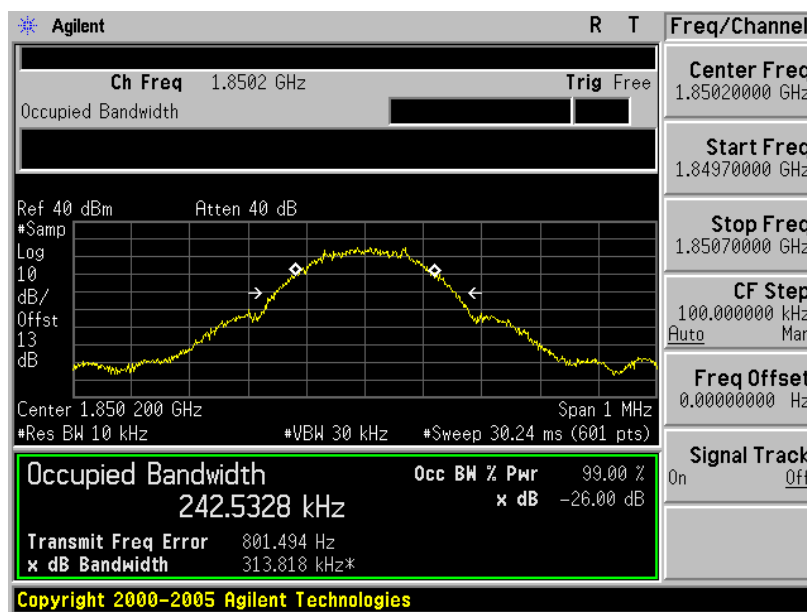


Channel 251

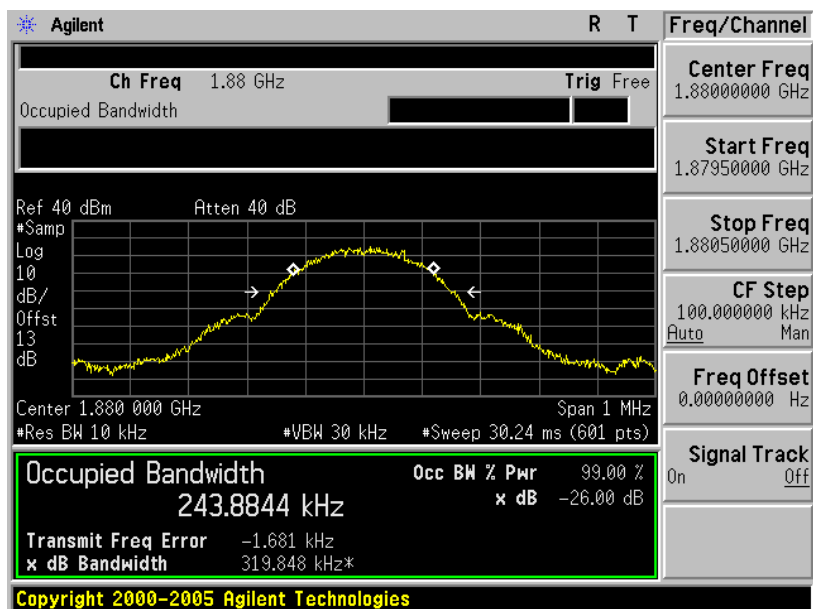


Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: GSM 1900 Link		
Date of Test	09/29/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	242.5328	RBW:10kHz , VBW:30kHz
661	1880.00	243.8844	RBW:10kHz , VBW:30kHz
810	1909.80	246.3378	RBW:10kHz , VBW:30kHz

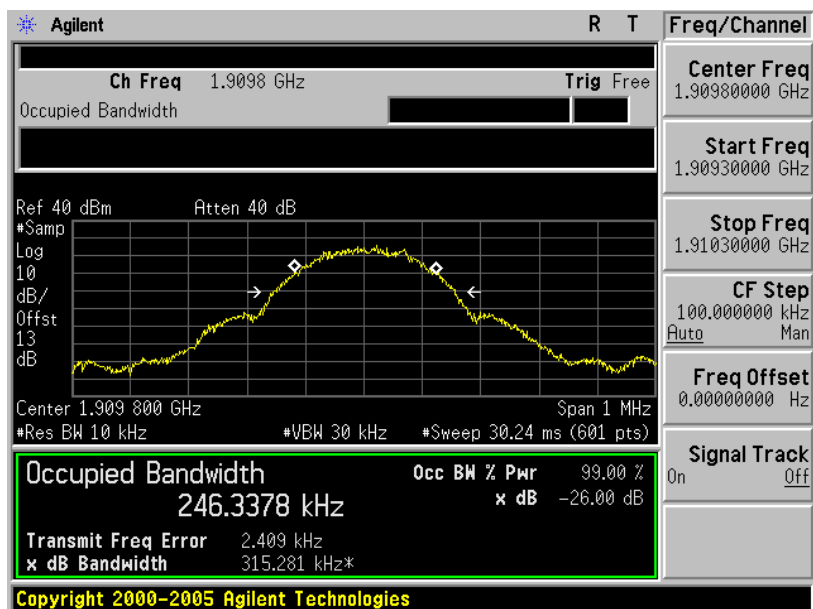
Channel 512



Channel 661

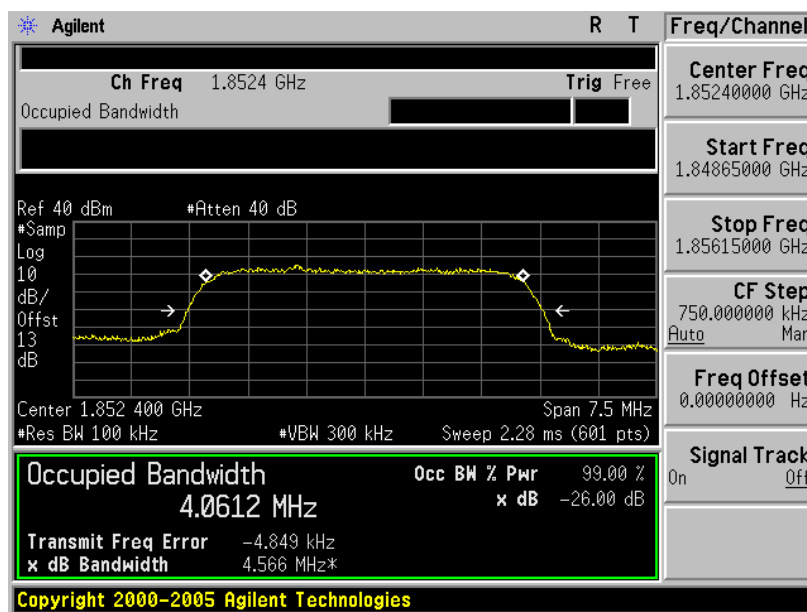


Channel 810

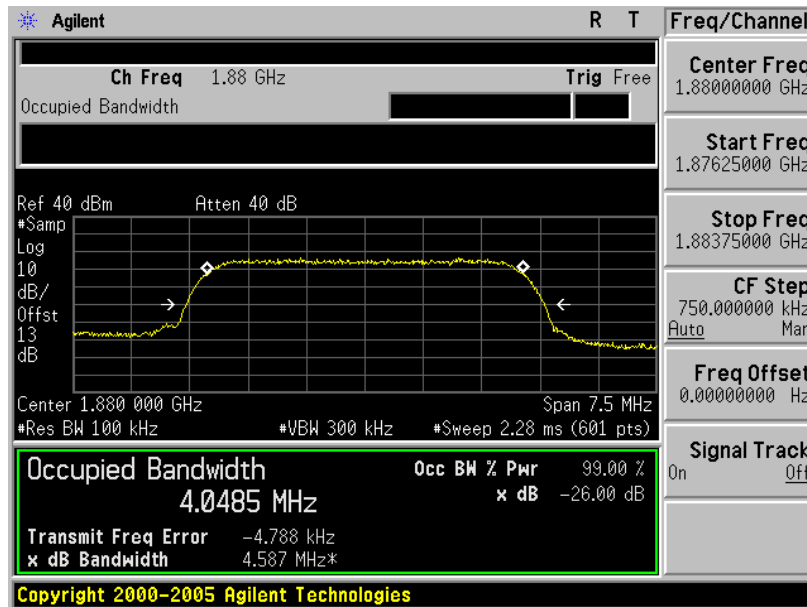


Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: WCDMA Band II Link		
Date of Test	09/29/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Note
9262	1852.4	4.0612	RBW:100kHz , VBW:300kHz
9400	1880.0	4.0485	RBW:100kHz , VBW:300kHz
9538	1907.6	4.0631	RBW:100kHz , VBW:300kHz

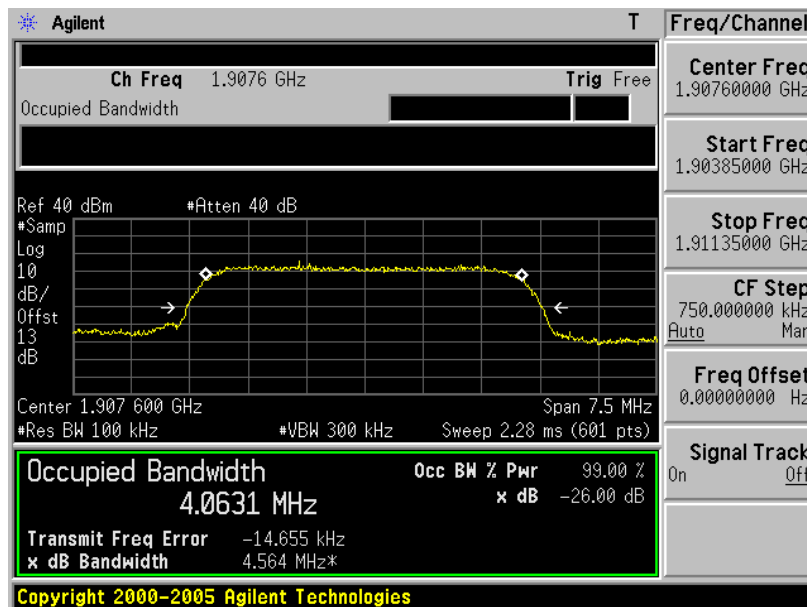
Channel 9262



Channel 9400

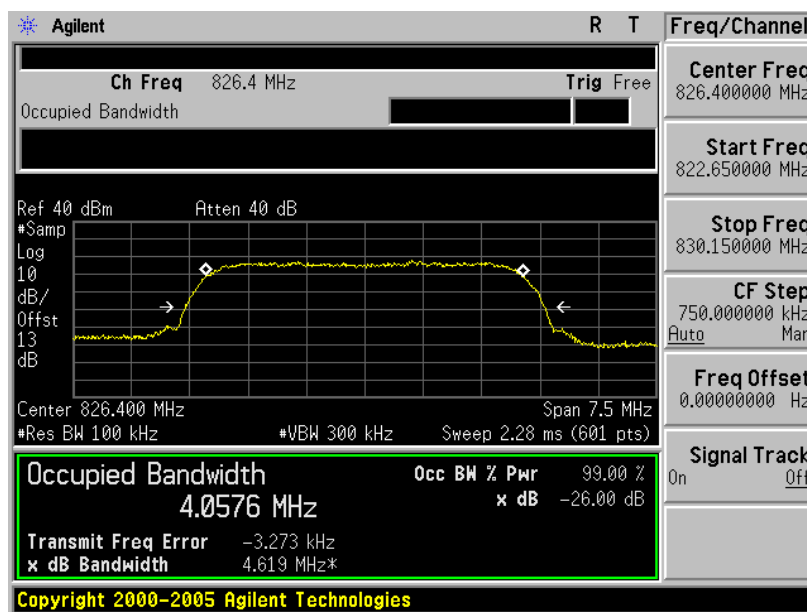


Channel 9538

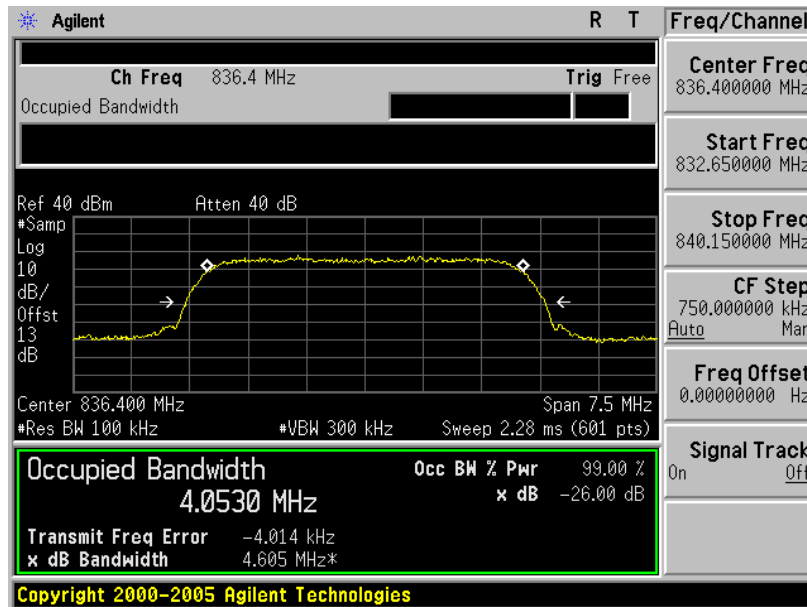


Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: WCDMA Band V Link		
Date of Test	09/29/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
4132	826.4	4.0576	RBW:100kHz , VBW:300kHz
4182	836.4	4.0530	RBW:100kHz , VBW:300kHz
4233	846.4	4.0481	RBW:100kHz , VBW:300kHz

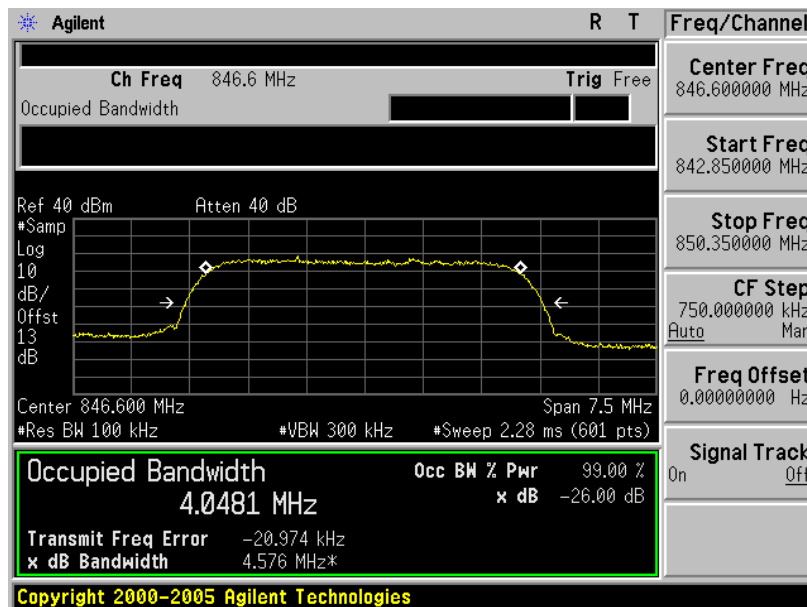
Channel 4132



Channel 4182

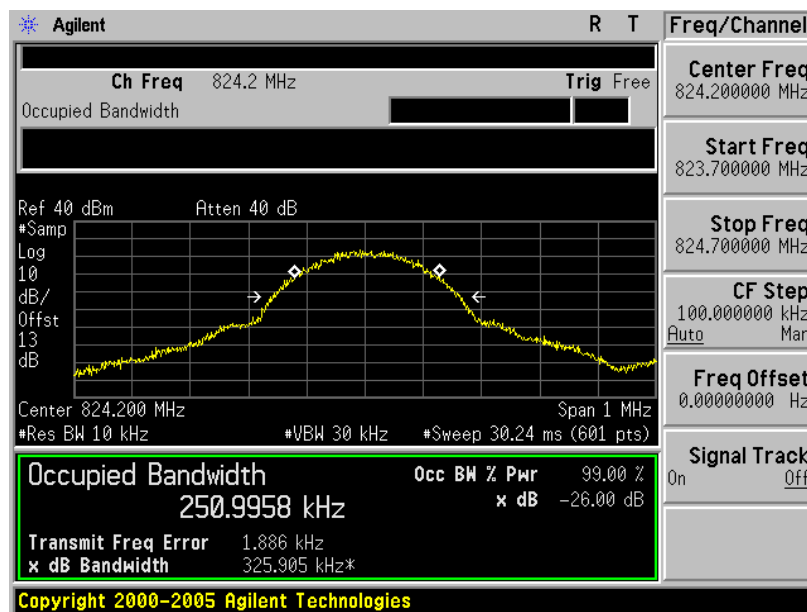


Channel 4233

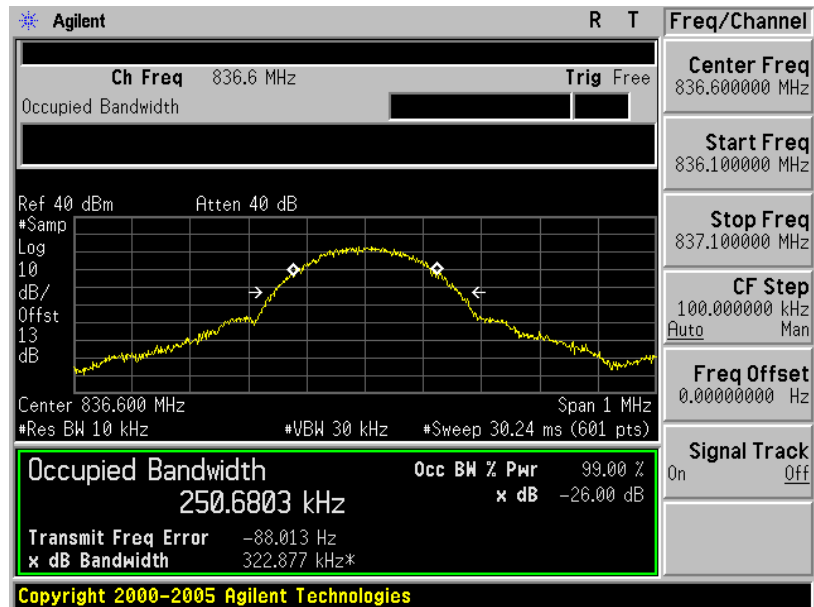


Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5: EGPRS 850 Link		
Date of Test	10/07/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	250.9958	RBW:10kHz , VBW:30kHz
190	836.4	250.6803	RBW:10kHz , VBW:30kHz
251	848.8	251.3963	RBW:10kHz , VBW:30kHz

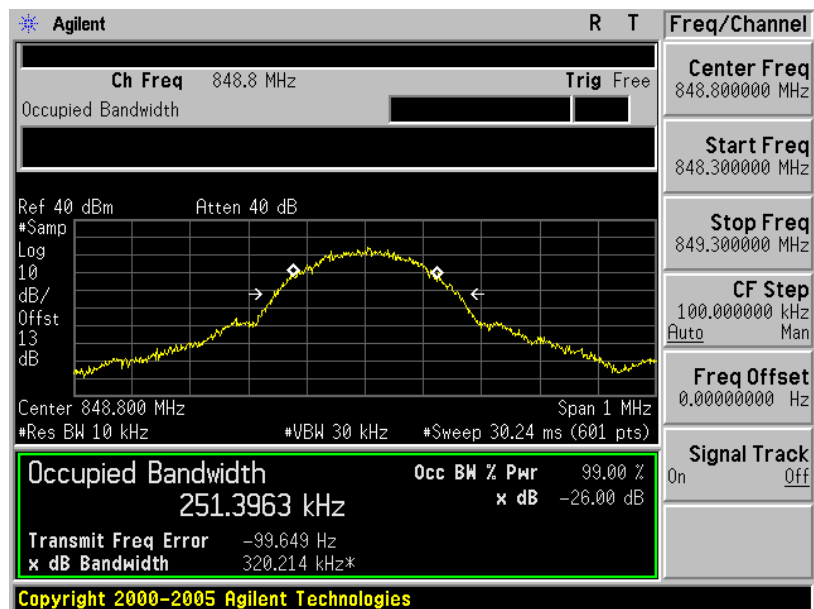
Channel 128



Channel 190



Channel 251

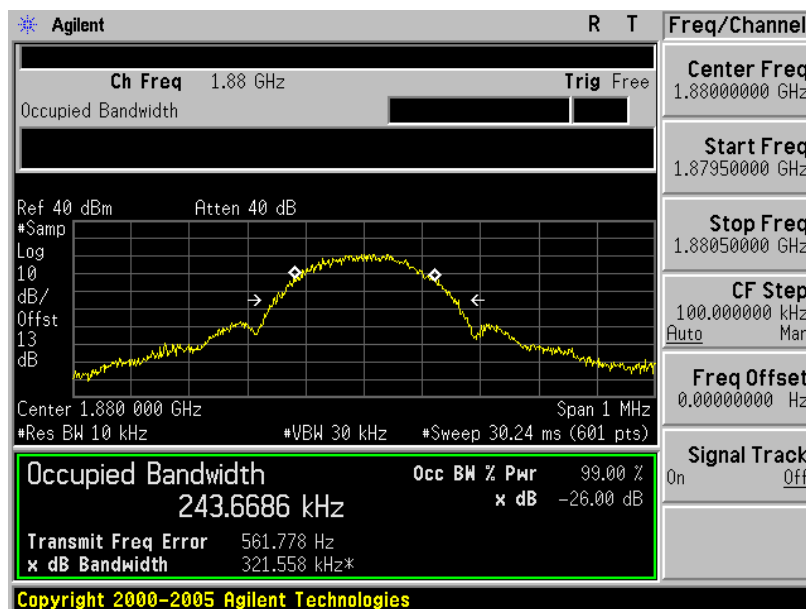


Model Number	KINZO		
Test Item	Occupied Bandwidth		
Test Mode	Mode 6: EGPRS 1900 Link		
Date of Test	10/07/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	244.1517	RBW:10kHz , VBW:30kHz
661	1880.00	243.6686	RBW:10kHz , VBW:30kHz
810	1909.80	245.3333	RBW:10kHz , VBW:30kHz

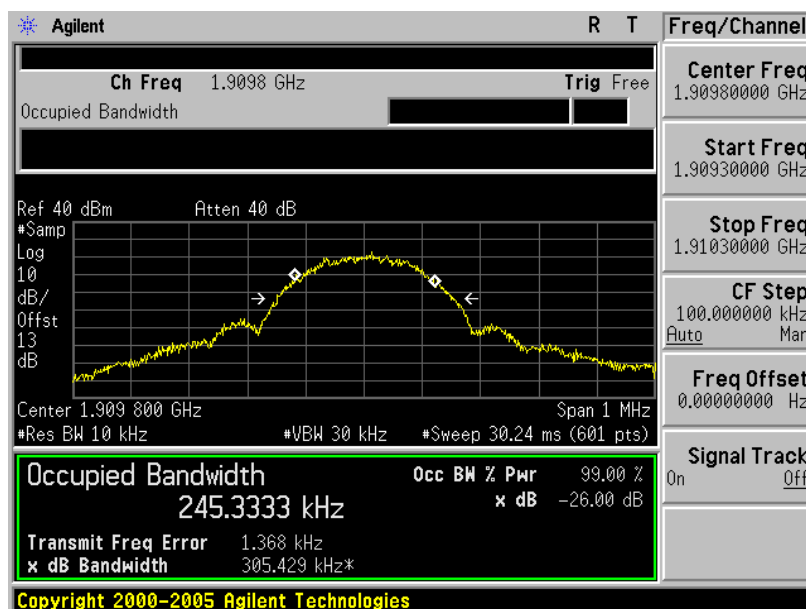
Channel 512



Channel 661



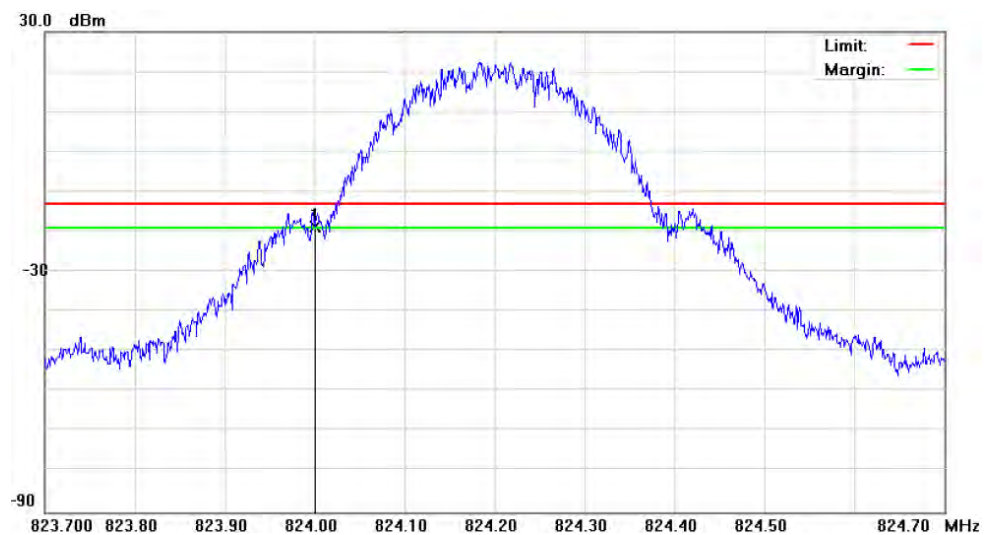
Channel 810



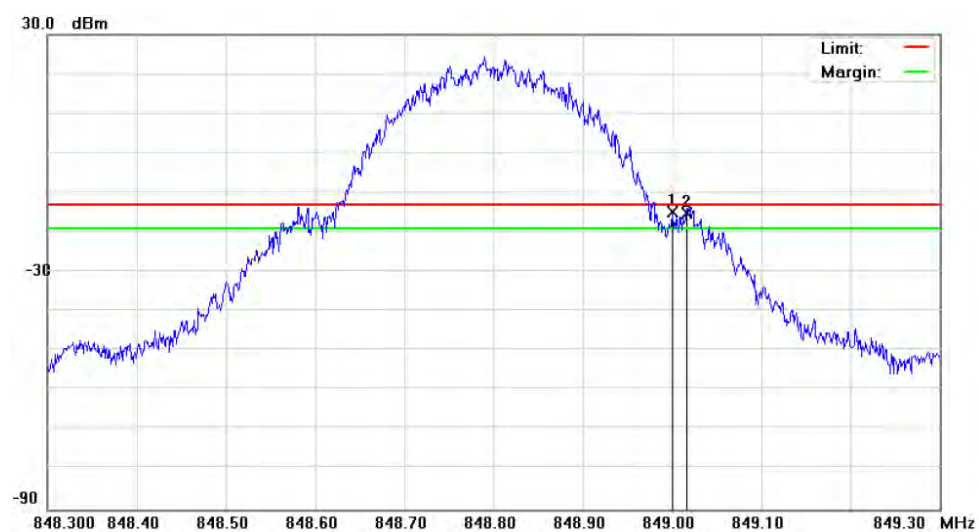
Band Edge

Model Number	KINZO				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	09/29/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-18.84	-13	Pass
Higher	251	849.0000	-14.83	-13	Pass

Lower Band

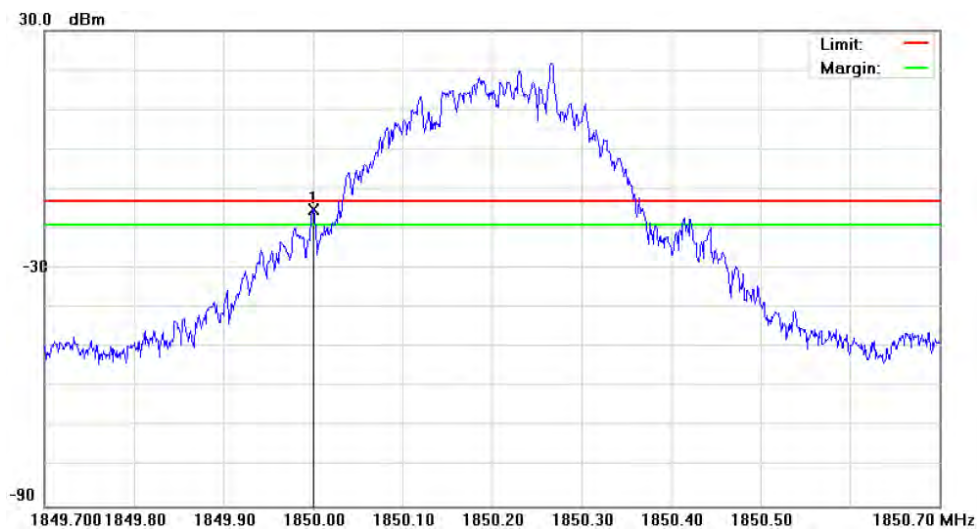


Higher Band

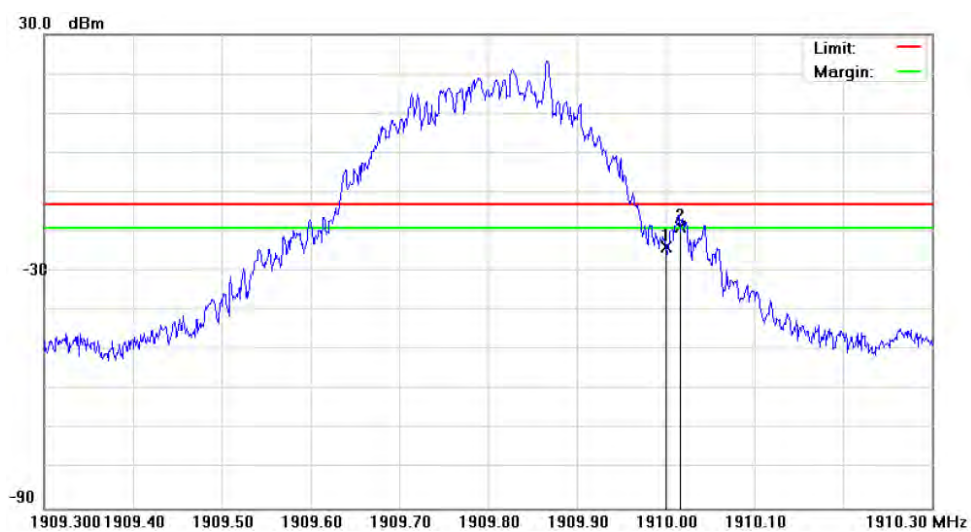


Model Number	KINZO				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	09/29/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1850.000	-15.24	-13	Pass
Higher	810	1910.000	-23.98	-13	Pass

Lower Band

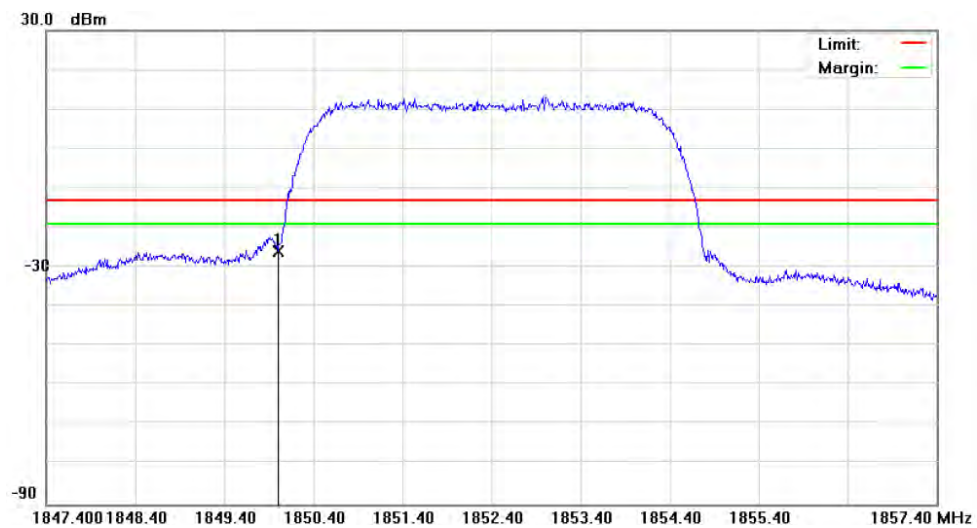


Higher Band

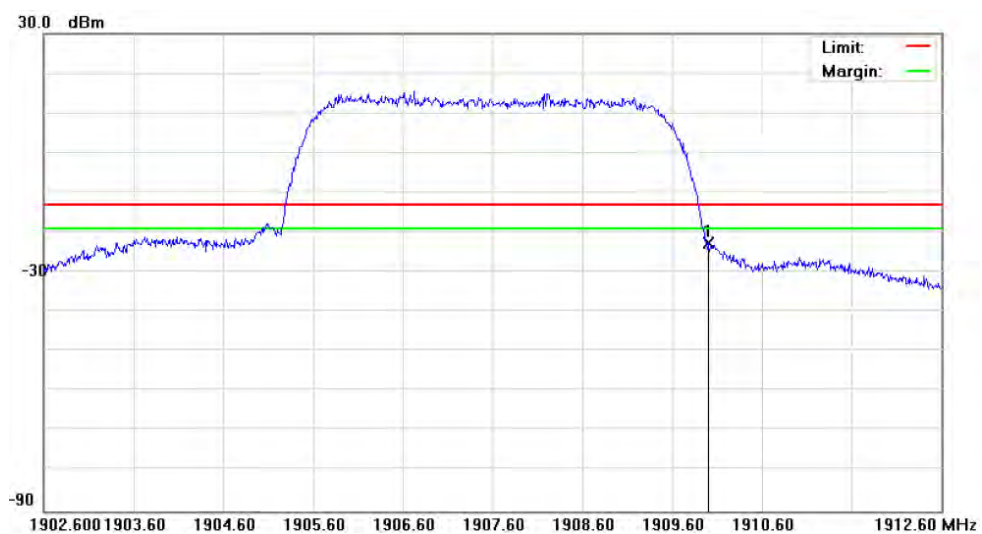


Model Number	KINZO				
Test Item	Band Edge				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	09/29/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9262	1850.000	-25.82	-13	Pass
Higher	9538	1910.000	-22.71	-13	Pass

Lower Band

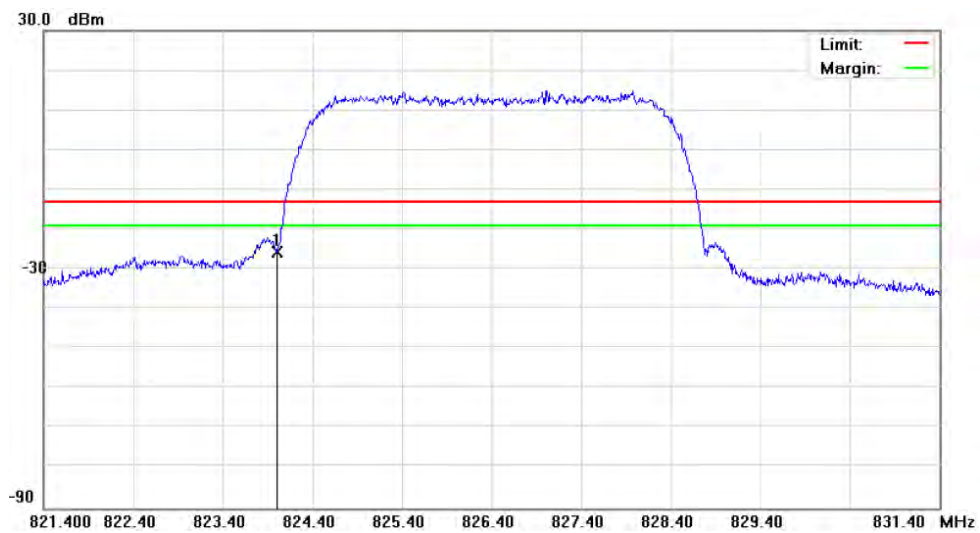


Higher Band

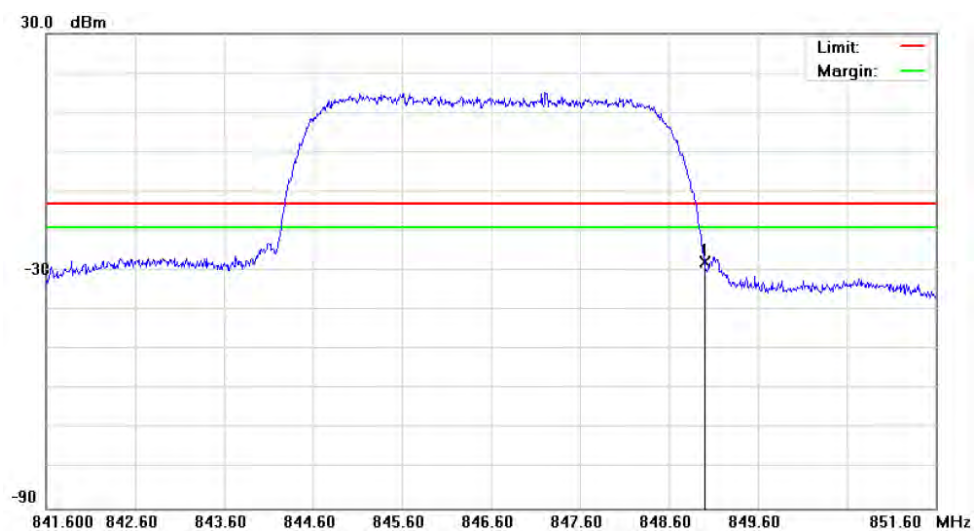


Model Number	KINZO				
Test Item	Band Edge				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	09/29/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4132	824.0000	-25.75	-13	Pass
Higher	4233	849.0000	-27.75	-13	Pass

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

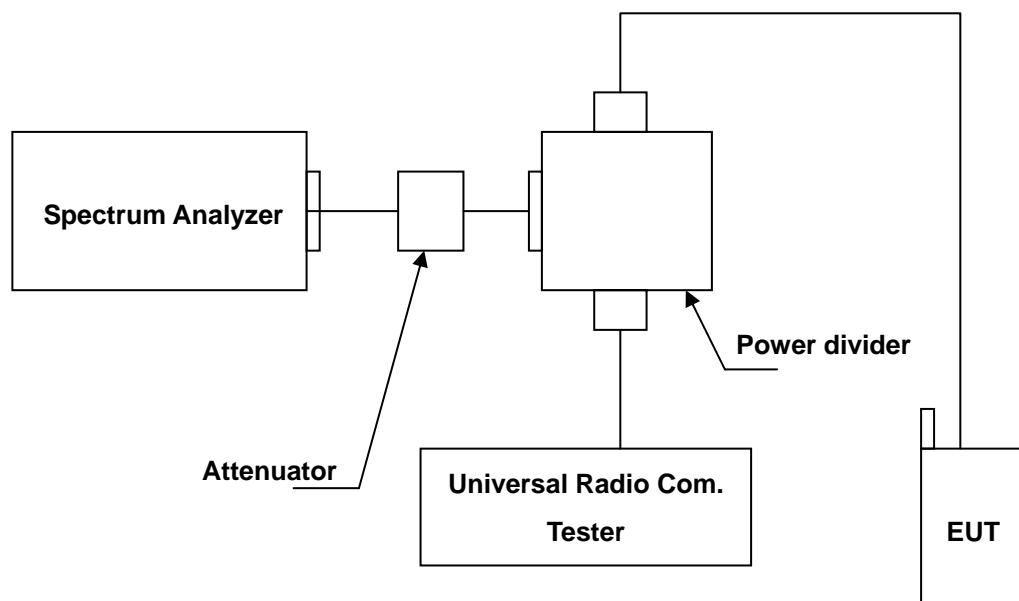
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(1)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIAL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----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

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

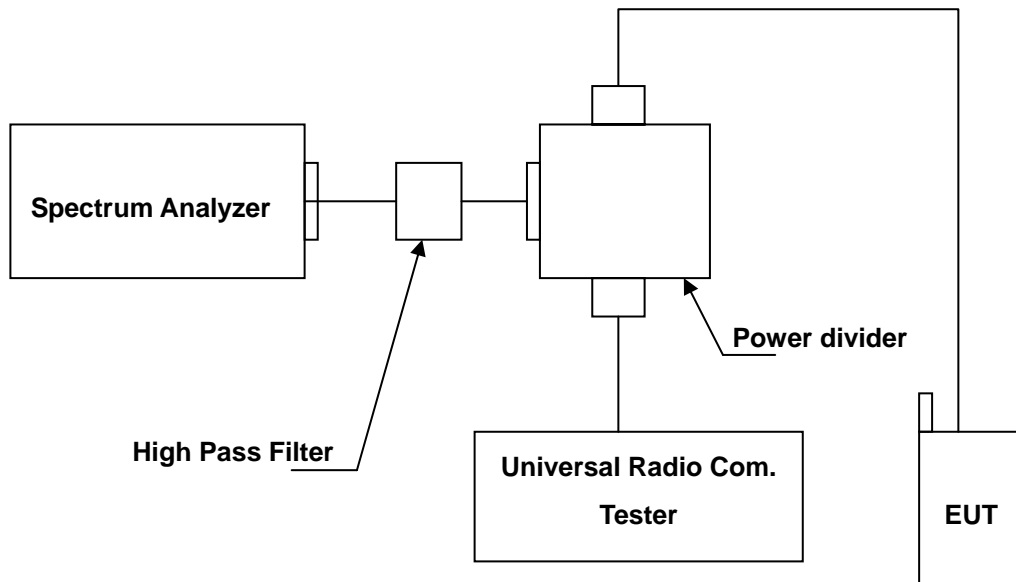
NOTE: N.C.R. = No Calibration Request.

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

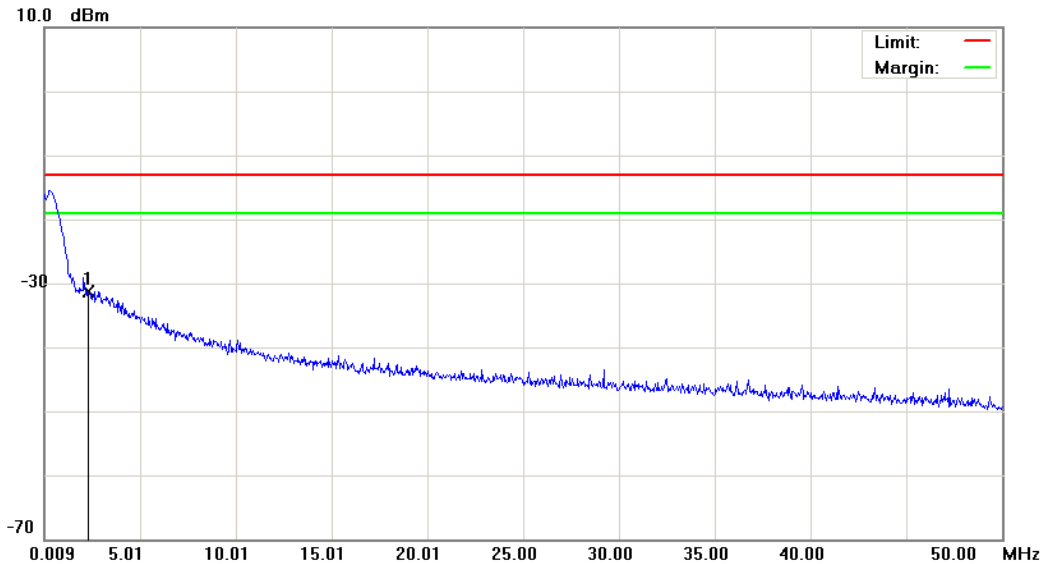
Model Number	KINZO		
Test Item	Conducted Emission		
Mode	Mode 1: GSM 850 Link Mode 2: GSM 1900 Link Mode 3: WCDMA Band II Link Mode 4: WCDMA Band V Link		
Date of Test	09/28 ~ 09/29/2011	Test Site	TE02

File :KINZO(CH128)

Data :#1

Date:2011/9/28

Time: 下午 05:28:28



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: GSM 850

Note:

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	*	2.2835	-62.27	31.07	-31.20	-13.00	-18.20	peak		

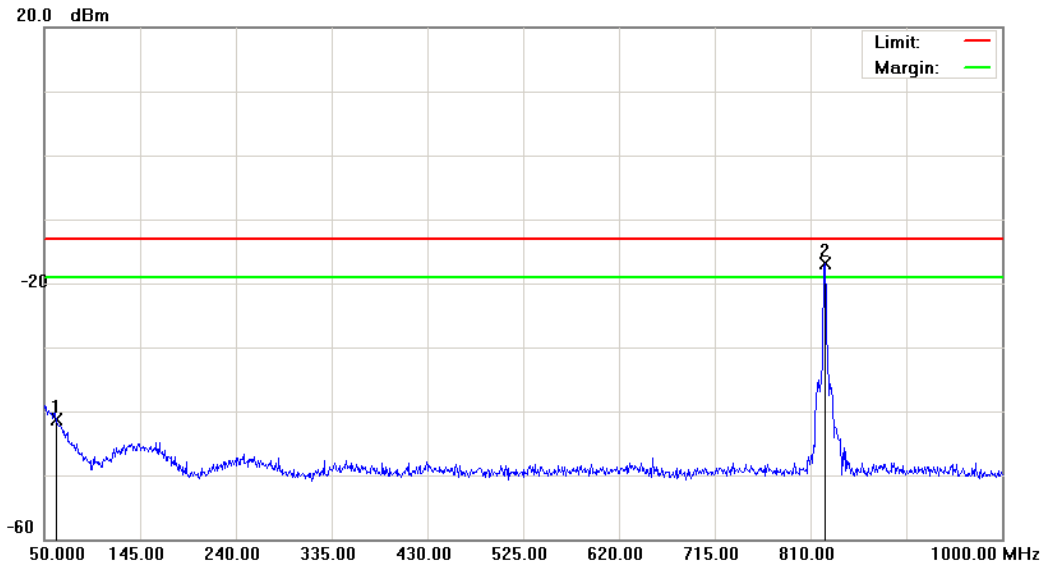
*:Maximum data x:Over limit !:over margin

File :KINZO(CH128)

Data :#2

Date: 2011/9/28

Time: 下午 05:28:52



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

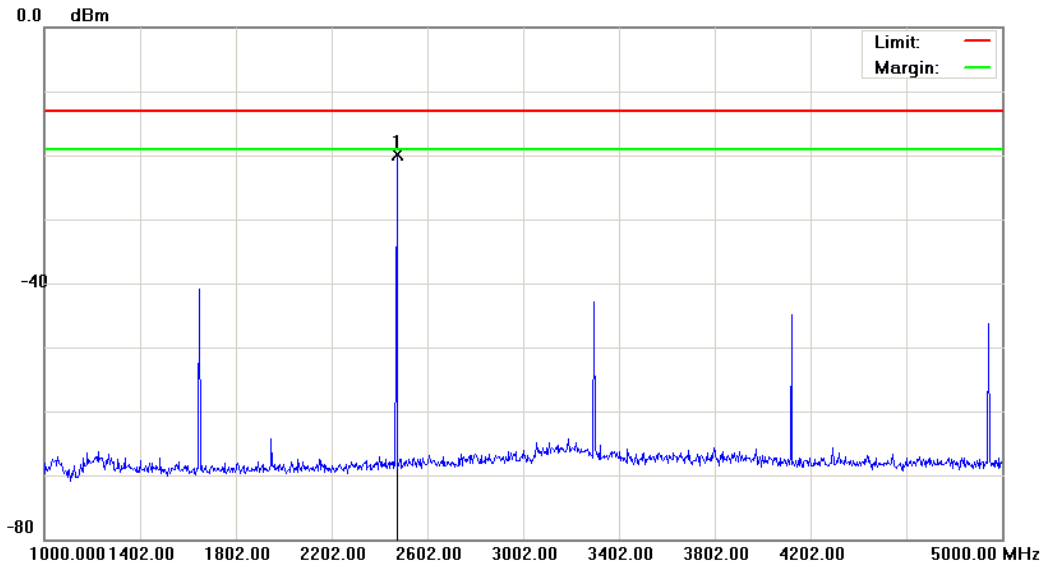
Mode: GSM 850

Note:

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		62.3500	-53.66	12.35	-41.31	-13.00	-28.31	peak		
2	*	824.2500	-20.83	3.84	-16.99	-13.00	-3.99	peak		TX

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

File :KINZO(CH128) Data :#3 Date:2011/9/28 Time: 下午 06:05:50



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 23.5 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: GSM 850		
Note:		

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	*	2472.000	-24.25	4.45	-19.80	-13.00	-6.80	peak		

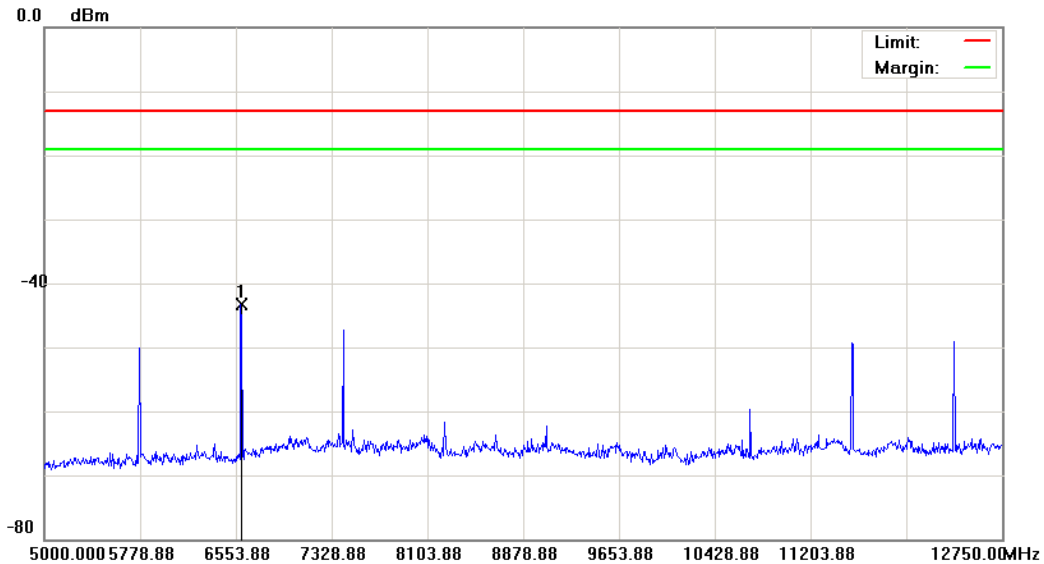
*:Maximum data x:Over limit !:over margin

File :KINZO(CH128)

Data :#4

Date:2011/9/28

Time: 下午 06:06:14



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5℃

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: GSM 850

Note:

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	*	6592.625	-48.11	4.73	-43.38	-13.00	-30.38	peak		

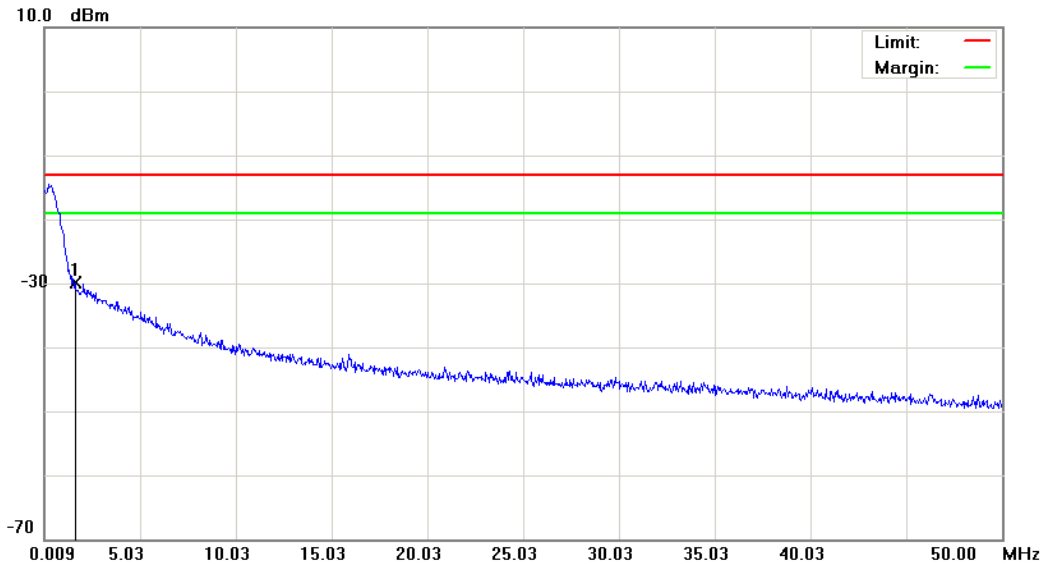
*:Maximum data x:Over limit !:over margin

File :KINZO(CH190)

Data :#1

Date:2011/9/28

Time: 下午 05:44:33



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

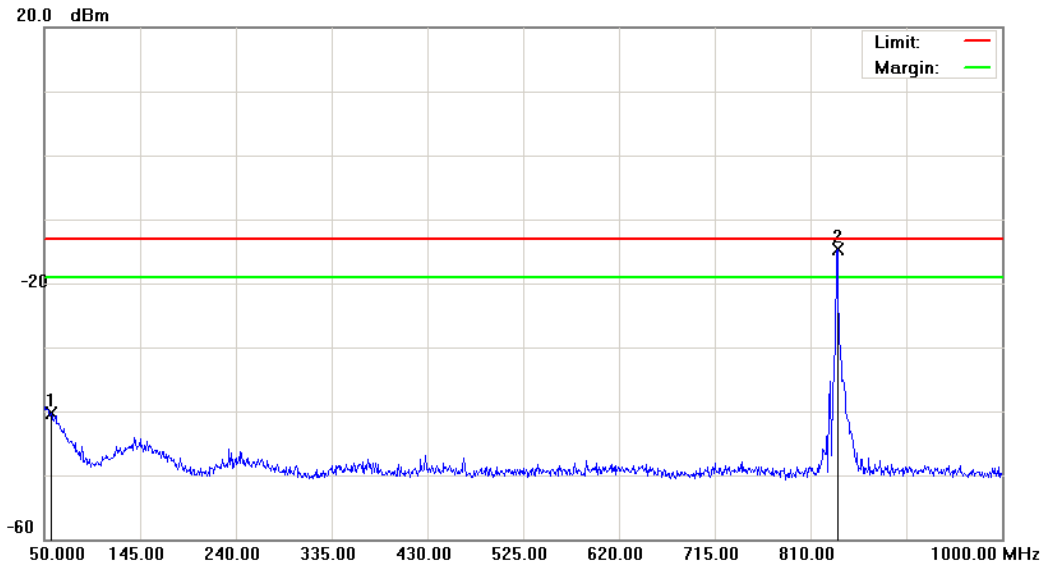
Mode: GSM 850

Note:

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	*	1.6087	-61.18	31.21	-29.97	-13.00	-16.97	peak		

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

File :KINZO(CH190) Data :#2 Date:2011/9/28 Time: 下午 05:44:57



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 23.5 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: GSM 850		
Note:		

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		56.6500	-53.87	13.50	-40.37	-13.00	-27.37	peak		
2	*	836.6000	-18.60	3.96	-14.64	-13.00	-1.64	peak		TX

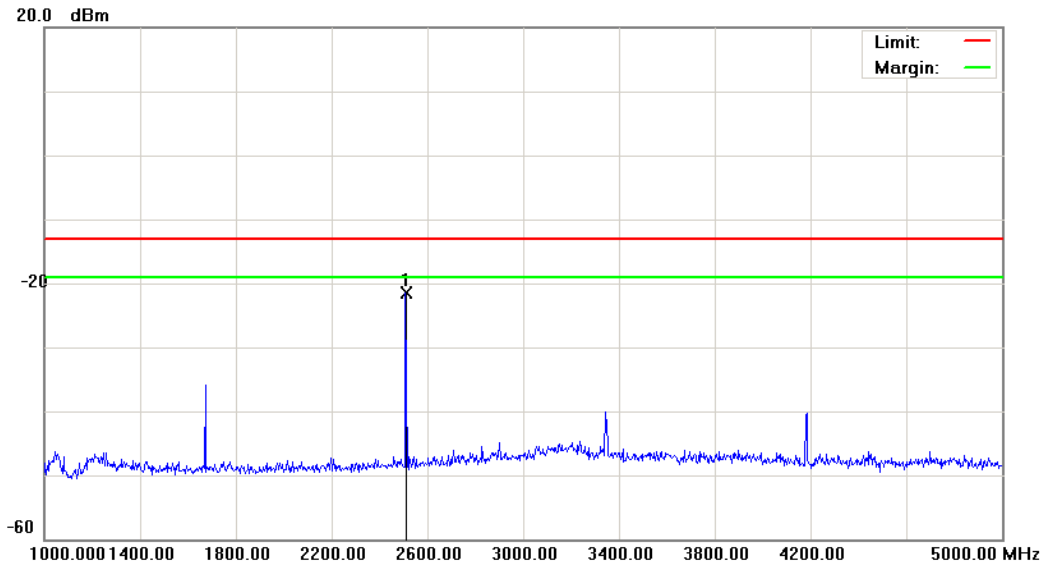
*:Maximum data x:Over limit !:over margin

File :KINZO(CH190)

Data :#3

Date: 2011/9/28

Time: 下午 06:07:26



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

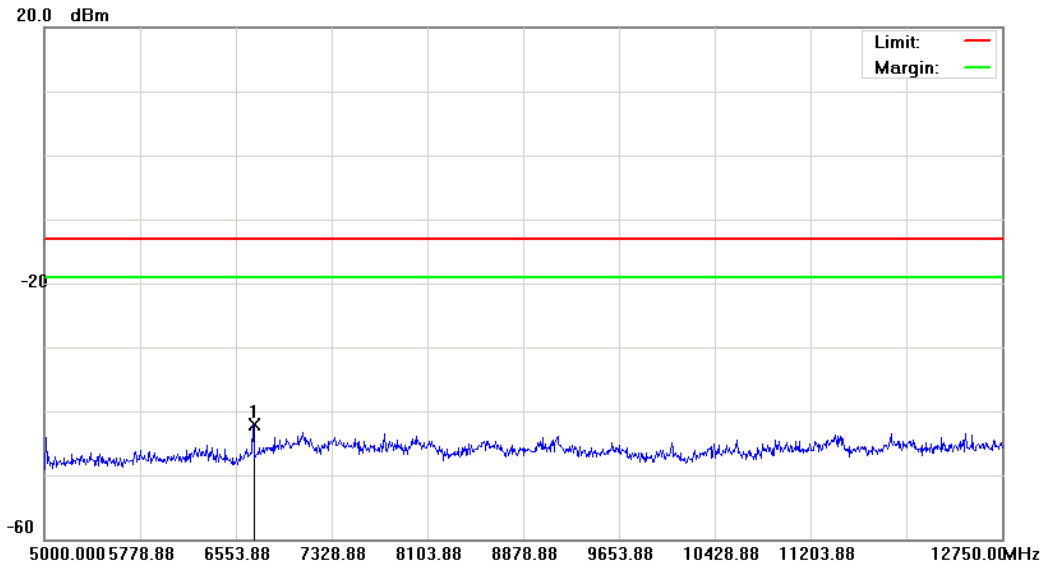
Mode: GSM 850

Note:

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	*	2510.000	-25.95	4.36	-21.59	-13.00	-8.59	peak		

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

File :KINZO(CH190) Data :#4 Date:2011/9/28 Time: 下午 06:07:49



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23.5 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: GSM 850		
Note:		

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	*	6693.375	-46.57	4.41	-42.16	-13.00	-29.16	peak		

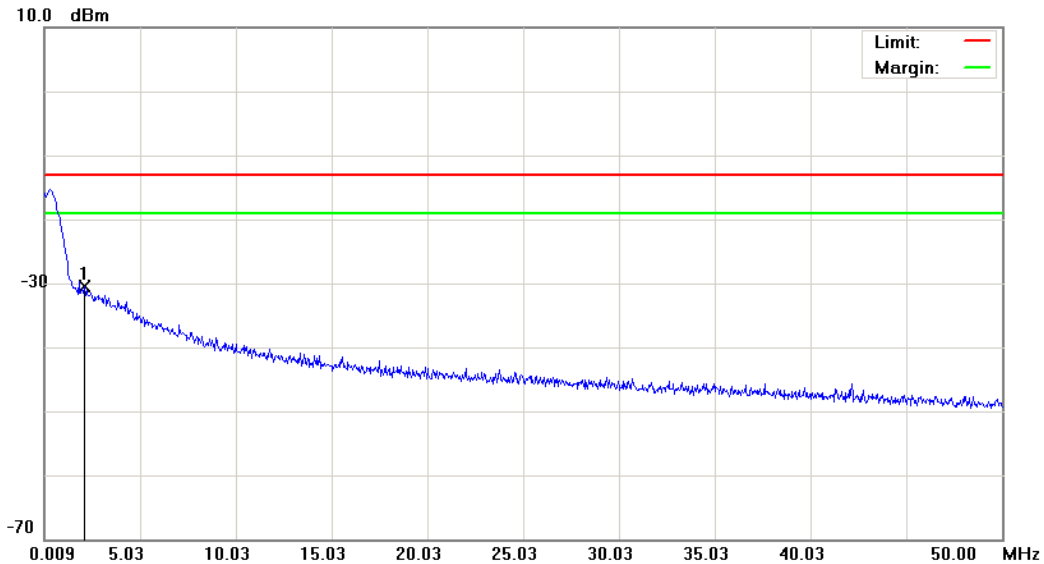
*:Maximum data x:Over limit !:over margin

File :KINZO(CH251)

Data :#1

Date:2011/9/28

Time: 下午 05:55:18



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

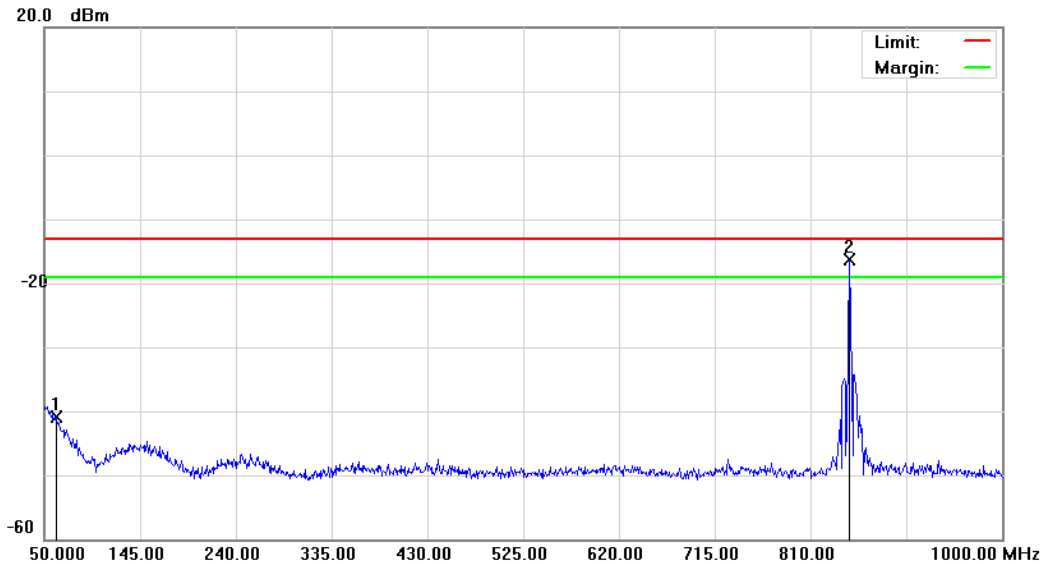
Mode: GSM 850

Note:

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	*	2.1086	-62.10	31.54	-30.56	-13.00	-17.56	peak		

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

File :KINZO(CH251) Data :#2 Date:2011/9/28 Time: 下午 05:55:42

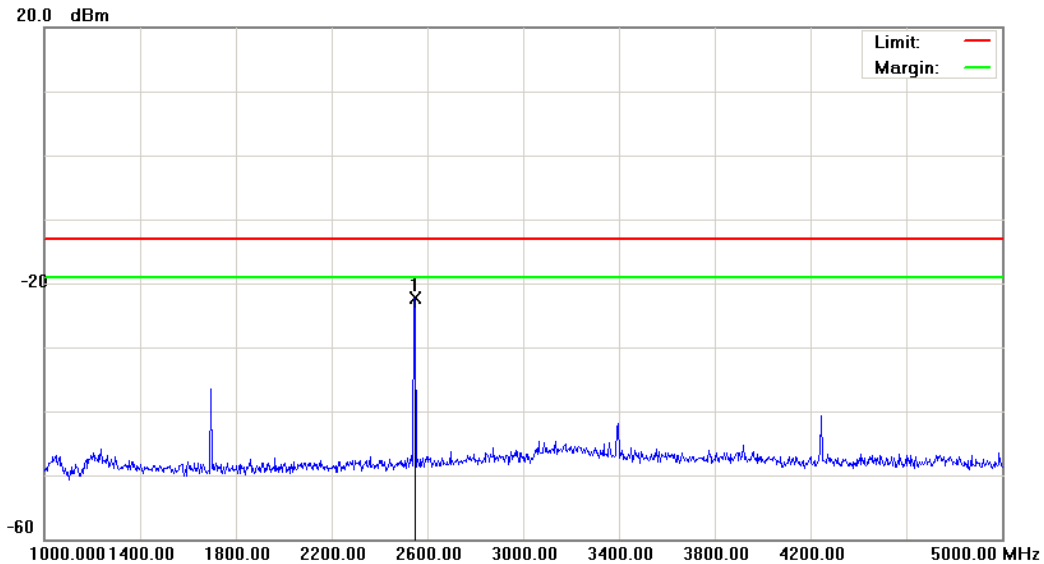


Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 23.5 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: GSM 850		
Note:		

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		61.4000	-53.50	12.57	-40.93	-13.00	-27.93	peak		
2	*	848.9500	-20.30	3.98	-16.32	-13.00	-3.32	peak		TX

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

File :KINZO(CH251) Data :#3 Date:2011/9/28 Time: 下午 06:10:06



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 23.5 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: GSM 850		
Note:		

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	*	2546.000	-26.81	4.45	-22.36	-13.00	-9.36	peak		

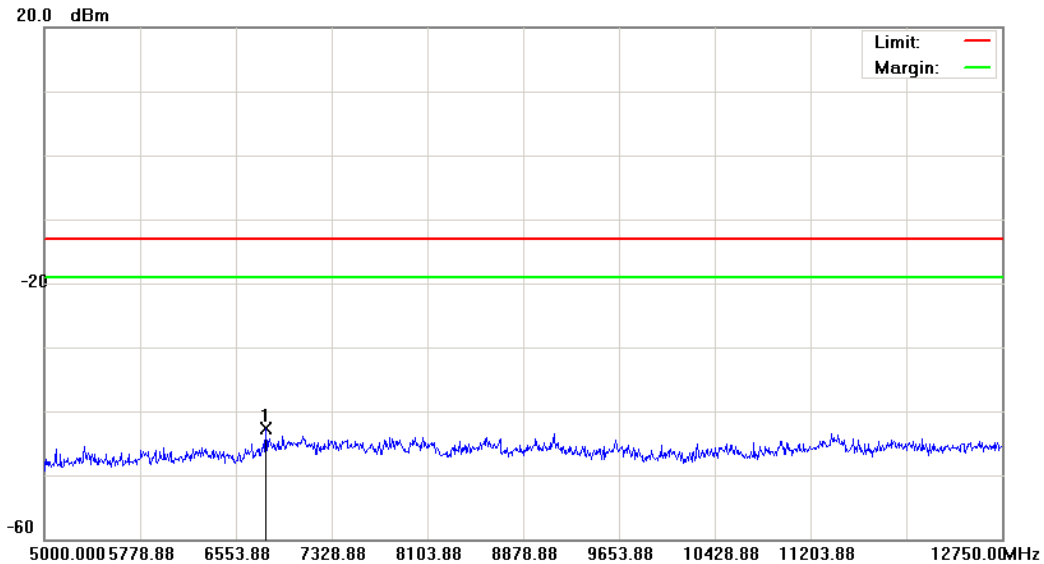
*:Maximum data x:Over limit !:over margin

File :KINZO(CH251)

Data :#4

Date: 2011/9/28

Time: 下午 06:10:29



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: GSM 850

Note:

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	*	6790.250	-47.77	5.04	-42.73	-13.00	-29.73	peak		

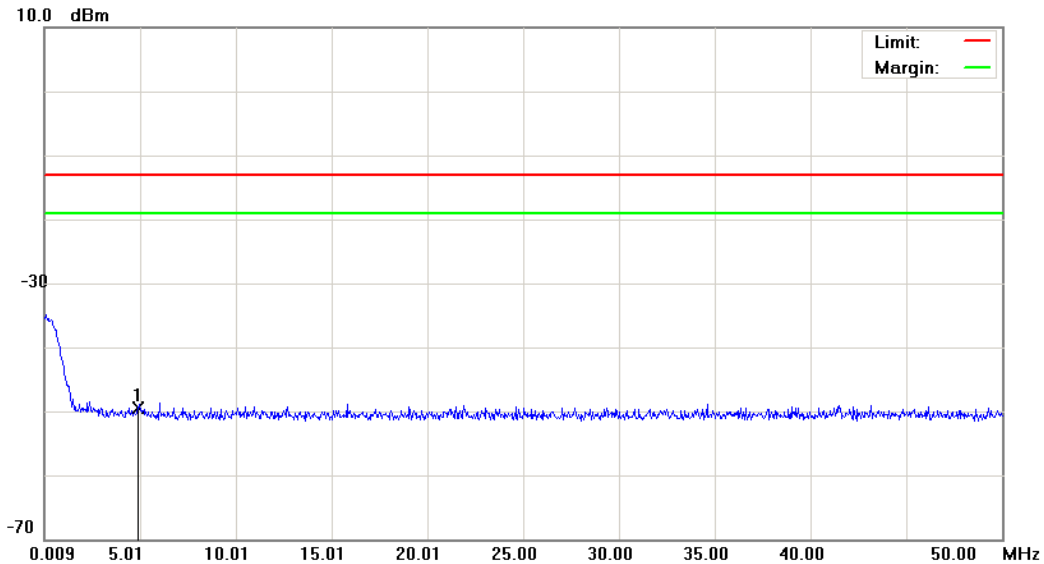
*:Maximum data x:Over limit !:over margin

File :KINZO(CH512)

Data :#1

Date:2011/9/28

Time: 下午 04:45:51



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

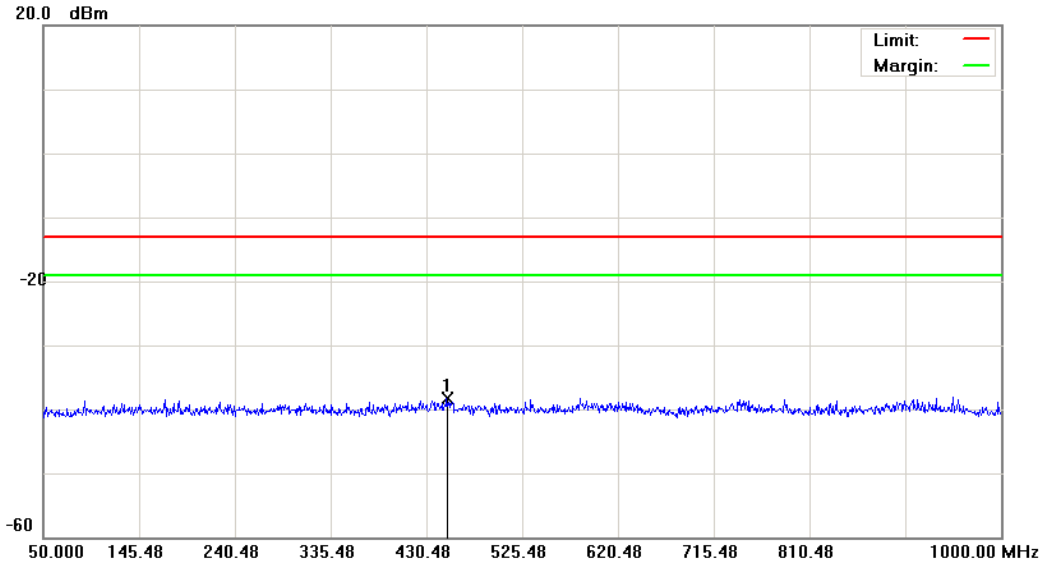
Mode: DCS 1900

Note:

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	*	4.9081	-62.72	13.24	-49.48	-13.00	-36.48	peak		

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

File :KINZO(CH512) Data :#2 Date:2011/9/28 Time: 下午 04:46:15



Site: : RF Conducted Polarization: *Conducted po* Temperature: 23.5 °C
 Limit: FCC Part 24 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 51.5 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: DCS 1900
 Note:

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	*	450.4250	-51.52	13.21	-38.31	-13.00	-25.31	peak		

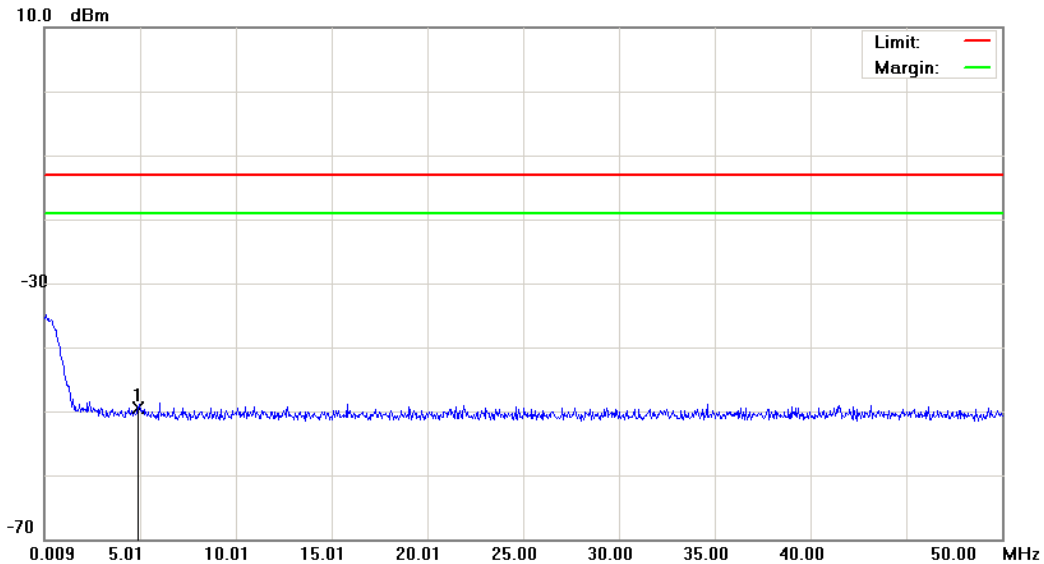
*:Maximum data x:Over limit !:over margin

File :KINZO(CH512)

Data :#1

Date:2011/9/28

Time: 下午 04:45:51



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: DCS 1900

Note:

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	*	4.9081	-62.72	13.24	-49.48	-13.00	-36.48	peak		

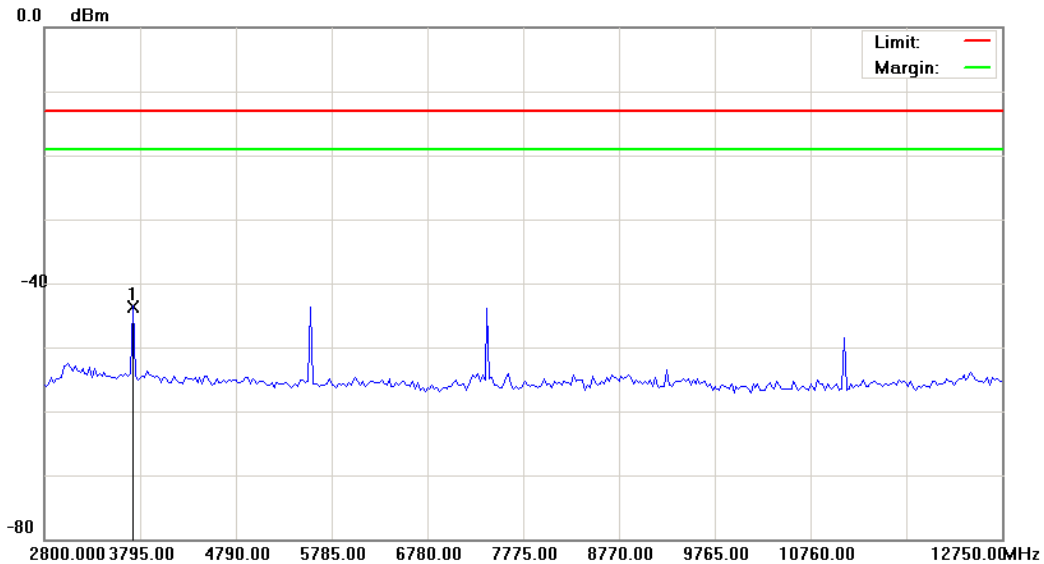
*:Maximum data x:Over limit !:over margin

File :KINZO(CH512)

Data :#4

Date:2011/9/29

Time: 上午 09:59:47



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5℃

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

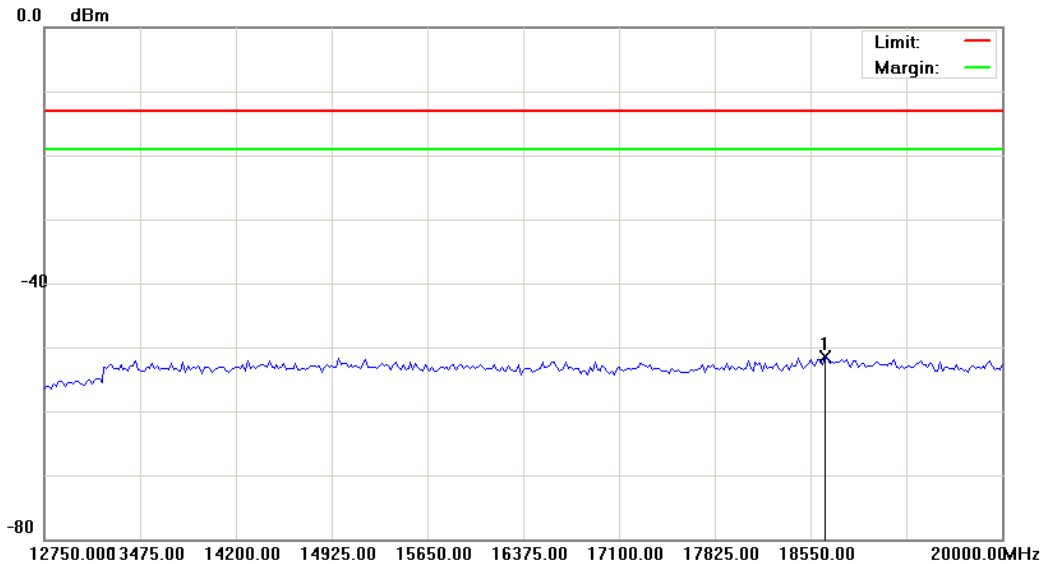
Mode: DCS 1900

Note:

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	*	3720.375	-48.48	4.88	-43.60	-13.00	-30.60	peak		

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

File :KINZO(CH512) Data :#5 Date:2011/9/29 Time: 上午 10:00:08



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23.5 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: DCS 1900		
Note:		

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	*	18658.750	-58.59	7.06	-51.53	-13.00	-38.53	peak		

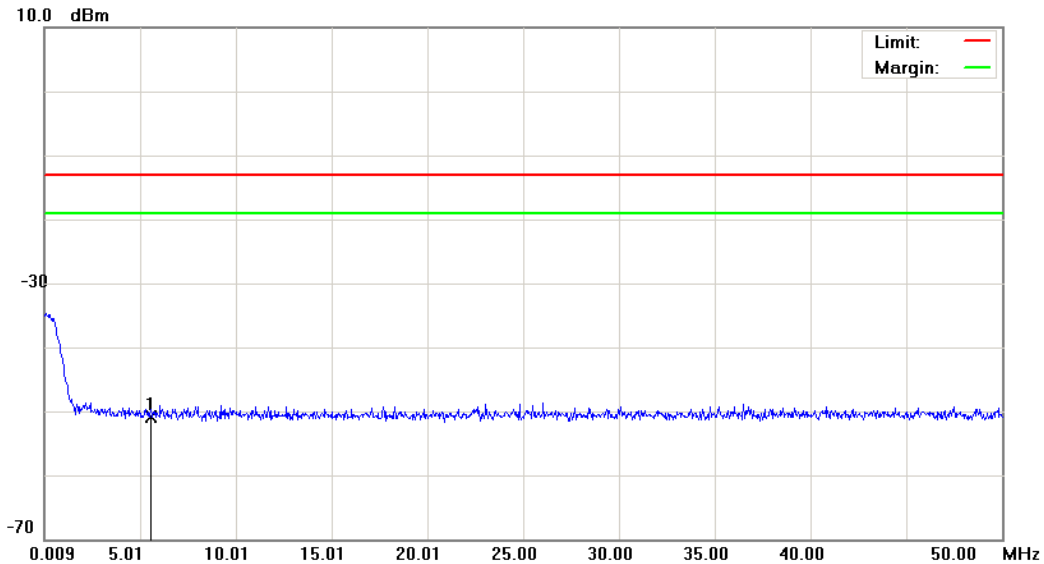
*:Maximum data x:Over limit !:over margin

File :KINZO(CH661)

Data :#1

Date:2011/9/28

Time: 下午 04:49:13



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

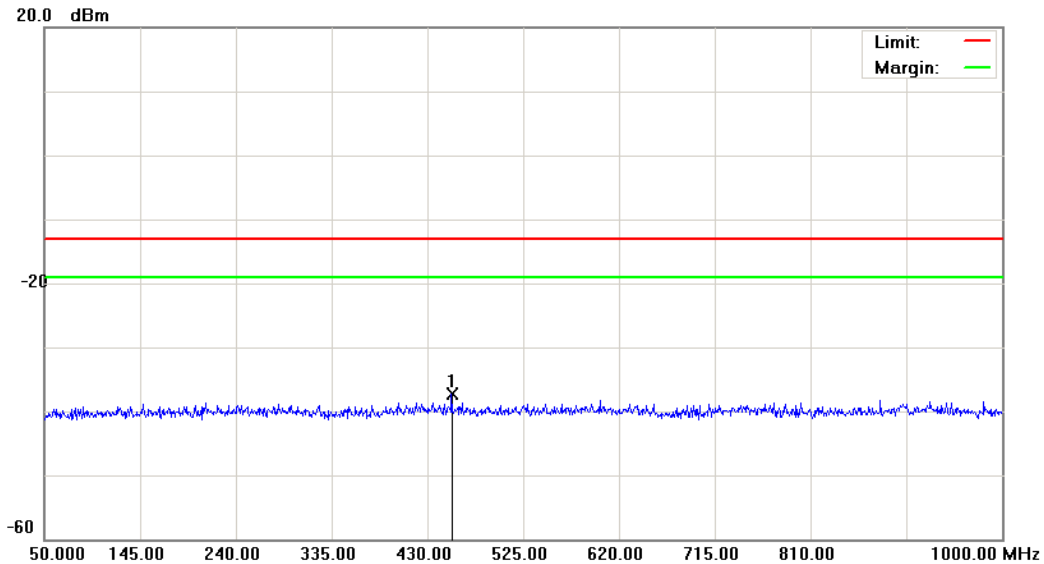
Mode: PCS 1900

Note:

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	*	5.5330	-64.14	13.27	-50.87	-13.00	-37.87	peak		

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

File :KINZO(CH661) Data :#2 Date:2011/9/28 Time: 下午 04:49:37

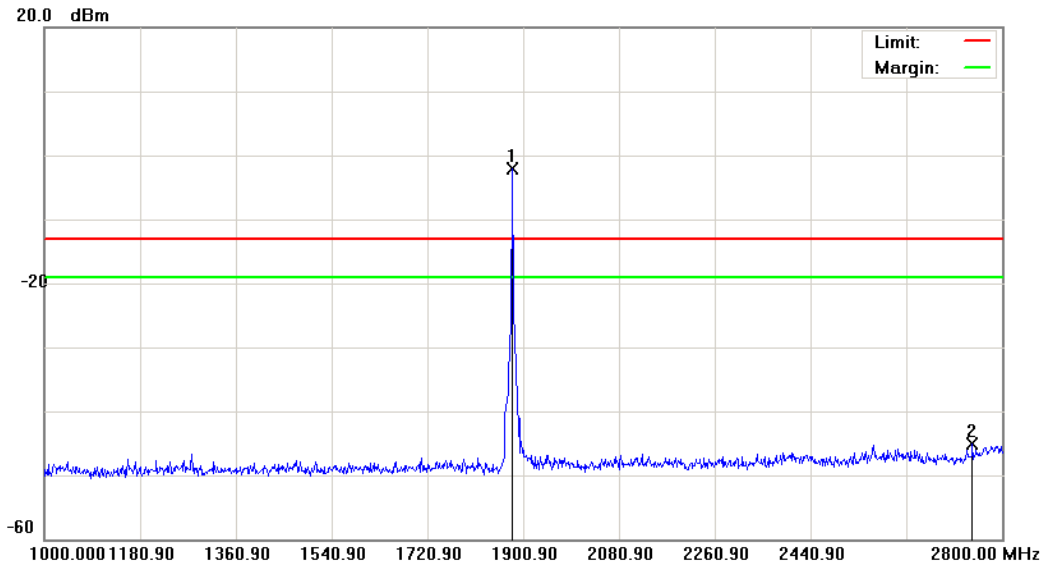


Site: : RF Conducted Polarization: **Conducted po** Temperature: 23.5 °C
 Limit: FCC Part 24 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 51.5 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: PCS 1900
 Note:

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	*	454.2250	-50.60	13.22	-37.38	-13.00	-24.38	peak		

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

File :KINZO(CH661) Data :#3 Date:2011/9/28 Time: 下午 05:06:27



Site: : RF Conducted Polarization: **Conducted po** Temperature: 23.5 °C
 Limit: FCC Part 24 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 51.5 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: PCS 1900
 Note:

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	-6.82	4.65	-2.17	-13.00	10.83	peak		TX
2		2744.200	-50.29	5.24	-45.05	-13.00	-32.05	peak		

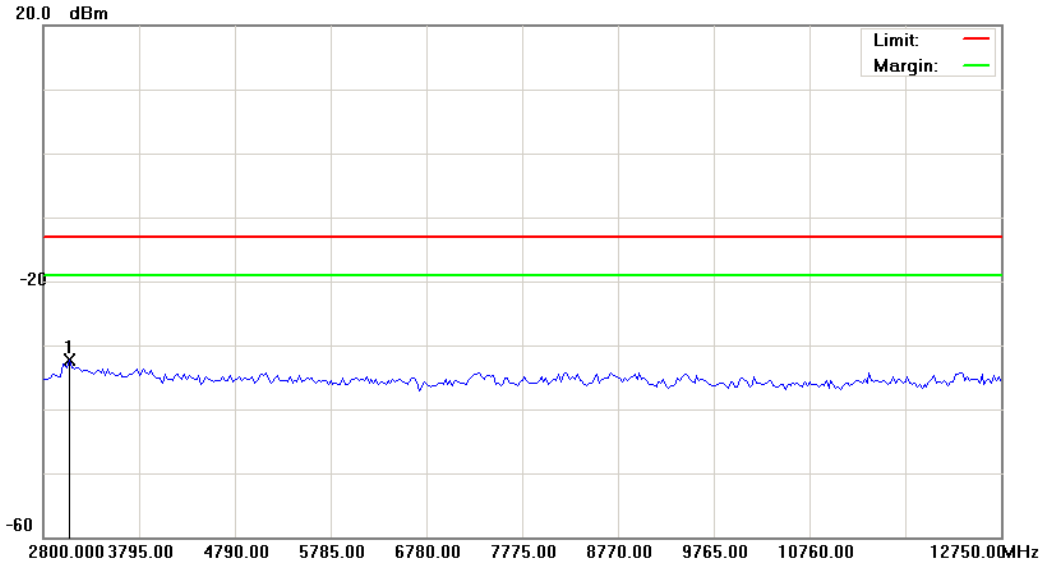
*:Maximum data x:Over limit !:over margin

File :KINZO(CH661)

Data :#4

Date:2011/9/29

Time: 上午 10:01:40



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: PCS 1900

Note:

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	*	3073.625	-37.78	5.40	-32.38	-13.00	-19.38	peak		

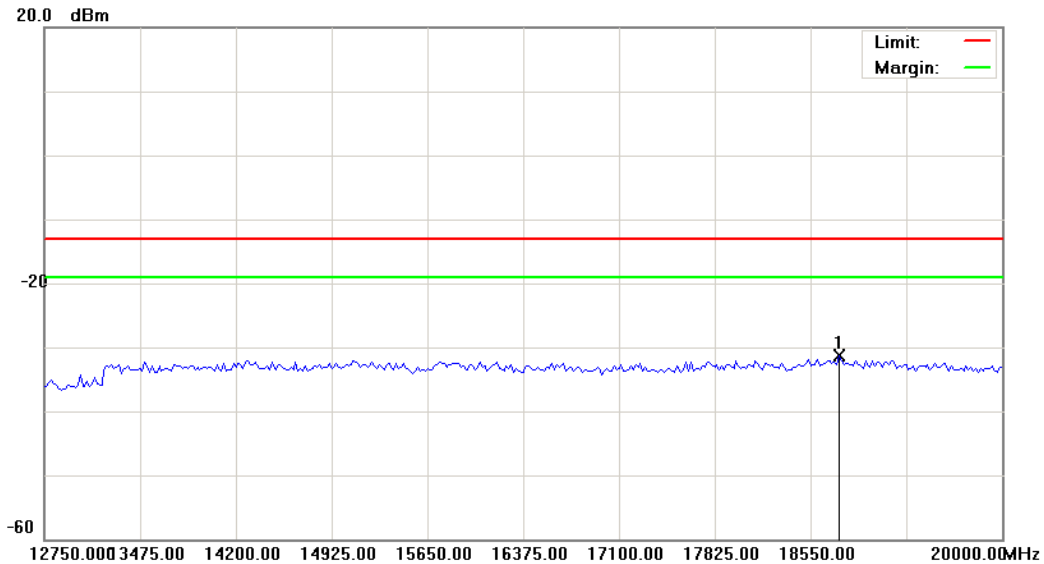
*:Maximum data x:Over limit !:over margin

File :KINZO(CH661)

Data :#5

Date:2011/9/29

Time: 上午 10:02:02



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: PCS 1900

Note:

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	*	18767.500	-38.42	7.09	-31.33	-13.00	-18.33	peak		

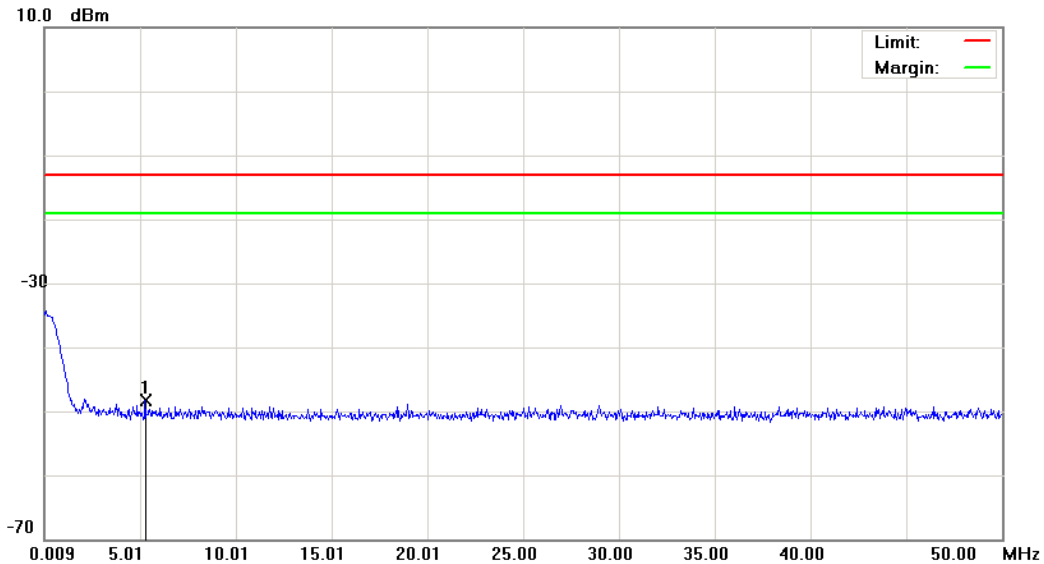
*:Maximum data x:Over limit !:over margin

File :KINZO(CH810)

Data :#1

Date:2011/9/28

Time: 下午 04:51:08



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: PCS 1900

Note:

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	*	5.2831	-61.56	13.27	-48.29	-13.00	-35.29	peak		

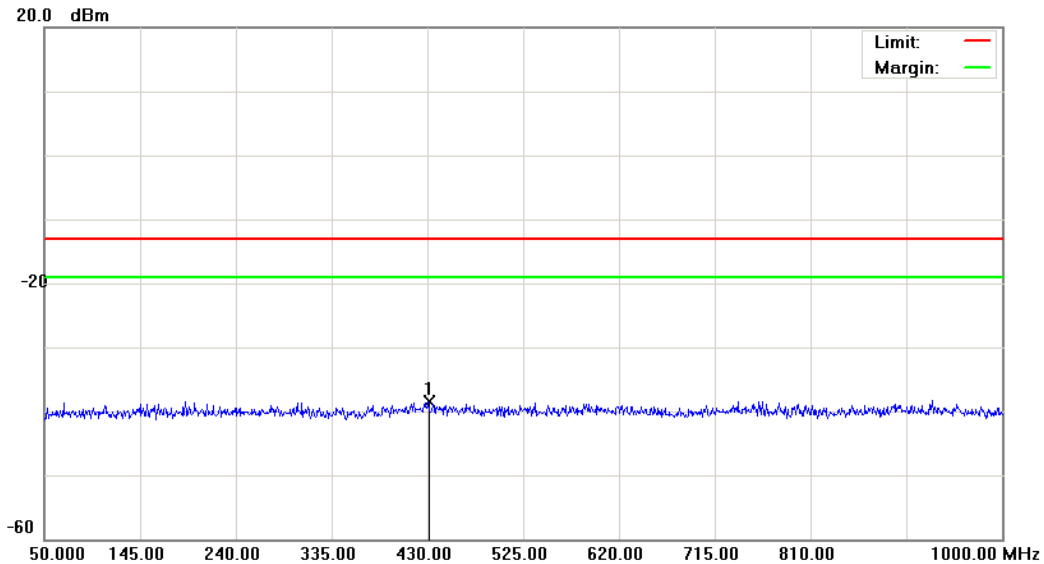
*:Maximum data x:Over limit !:over margin

File :KINZO(CH810)

Data :#2

Date:2011/9/28

Time: 下午 04:51:32



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: PCS 1900

Note:

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	*	431.4250	-51.79	13.25	-38.54	-13.00	-25.54	peak		

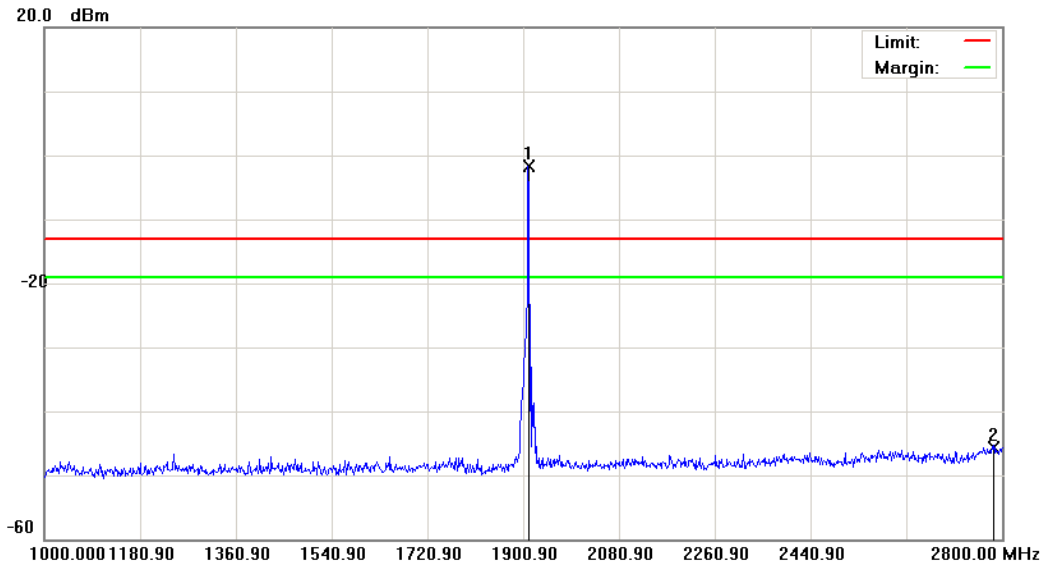
*:Maximum data x:Over limit !:over margin

File :KINZO(CH810)

Data :#3

Date:2011/9/28

Time: 下午 05:02:52



Site: : RF Conducted

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

EUT: PDA Phone

M/N: KINZO

Mode: PCS 1900

Note:

Polarization: *Conducted po*

Power: AC 120V/60Hz

Distance:

Temperature: 23.5 °C

Humidity: 51.5 %

RBW: 1000 kHz VBW: 1000 kHz

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	-7.37	5.71	-1.66	-13.00	11.34	peak		TX
2		2782.900	-51.53	5.88	-45.65	-13.00	-32.65	peak		

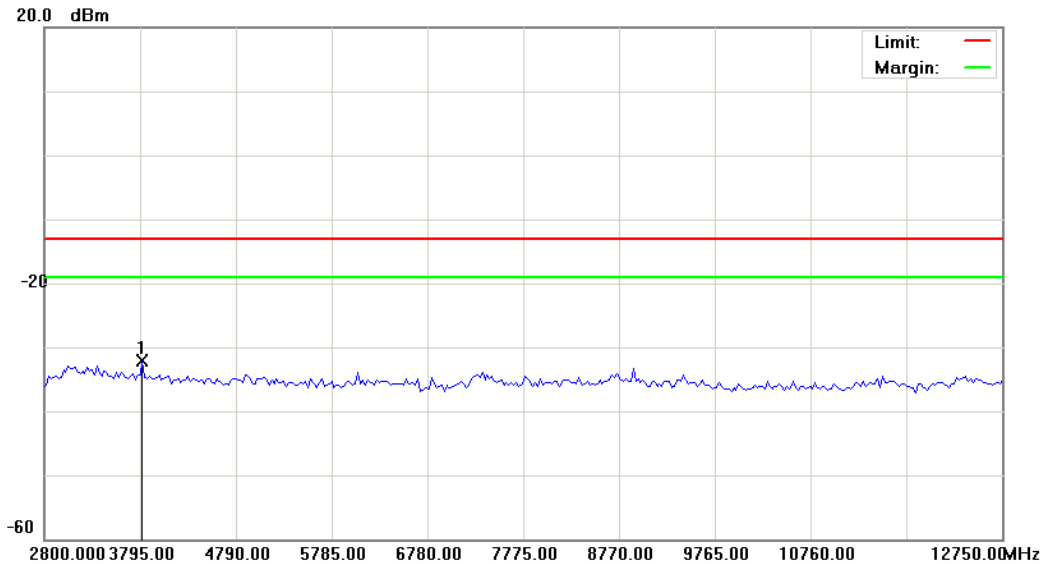
*:Maximum data x:Over limit !:over margin

File :KINZO(CH810)

Data :#4

Date:2011/9/29

Time: 上午 10:02:48



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 23.5 °C

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

Power: AC 120V/60Hz

Humidity: 51.5 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

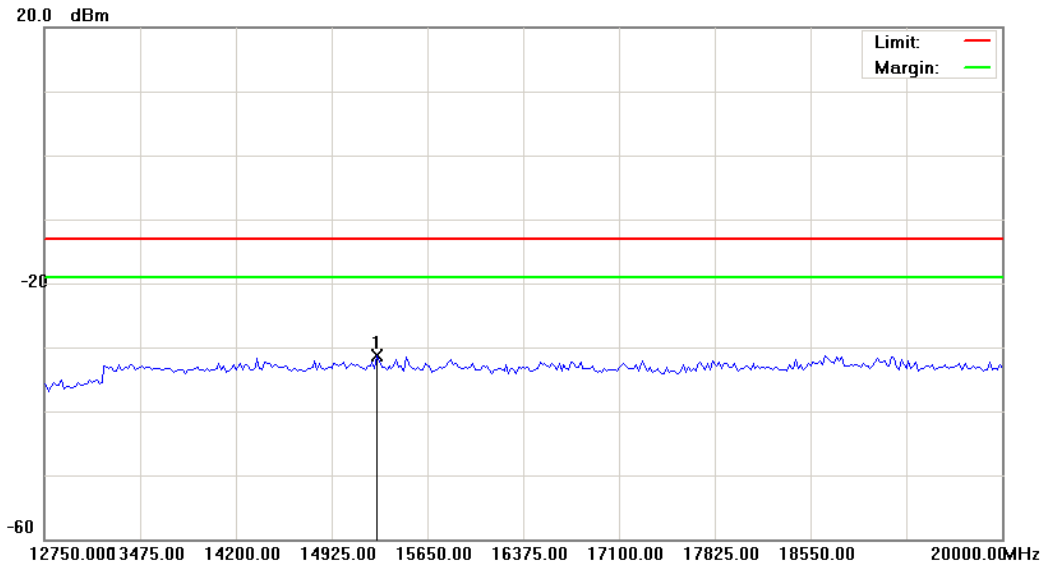
Mode: PCS 1900

Note:

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	*	3819.875	-37.07	4.91	-32.16	-13.00	-19.16	peak		

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

File :KINZO(CH810) Data :#5 Date:2011/9/29 Time: 上午 10:03:09



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23.5℃
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 51.5 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: PCS 1900		
Note:		

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	*	15269.375	-37.33	6.09	-31.24	-13.00	-18.24	peak		

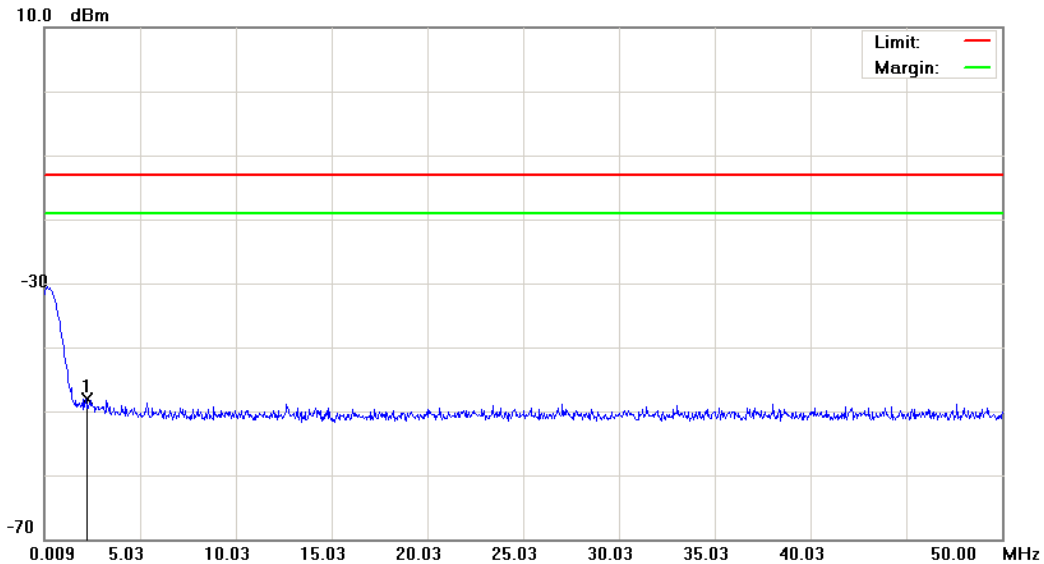
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9262)

Data :#1

Date:2011/9/28

Time: 上午 10:11:08



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA Band II

Note:

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	*	2.1836	-61.13	13.11	-48.02	-13.00	-35.02	peak		

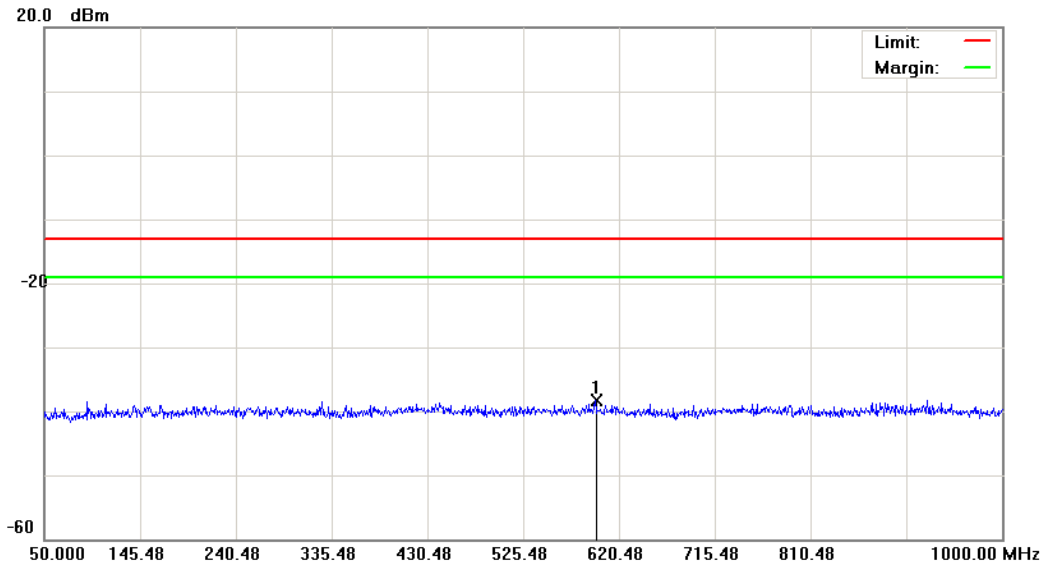
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9262)

Data :#2

Date:2011/9/28

Time: 上午 10:11:32



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA Band II

Note:

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	*	596.7250	-51.50	13.19	-38.31	-13.00	-25.31	peak		

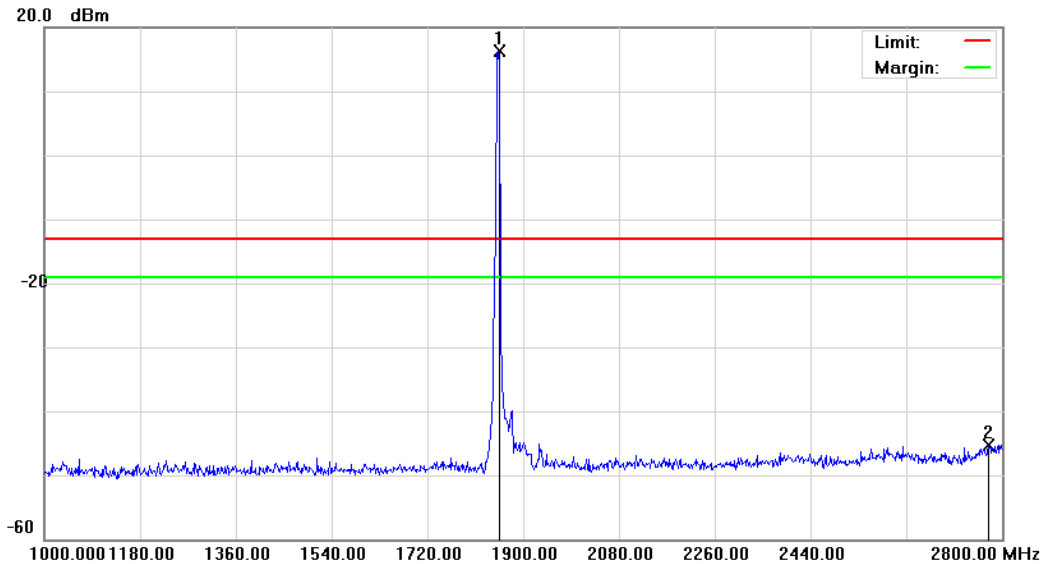
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9262)

Data :#3

Date:2011/9/28

Time: 上午 10:19:12



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA Band II

Note:

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	*	1854.100	12.00	4.28	16.28	-13.00	29.28	peak		Tx
2		2774.800	-51.15	5.81	-45.34	-13.00	-32.34	peak		

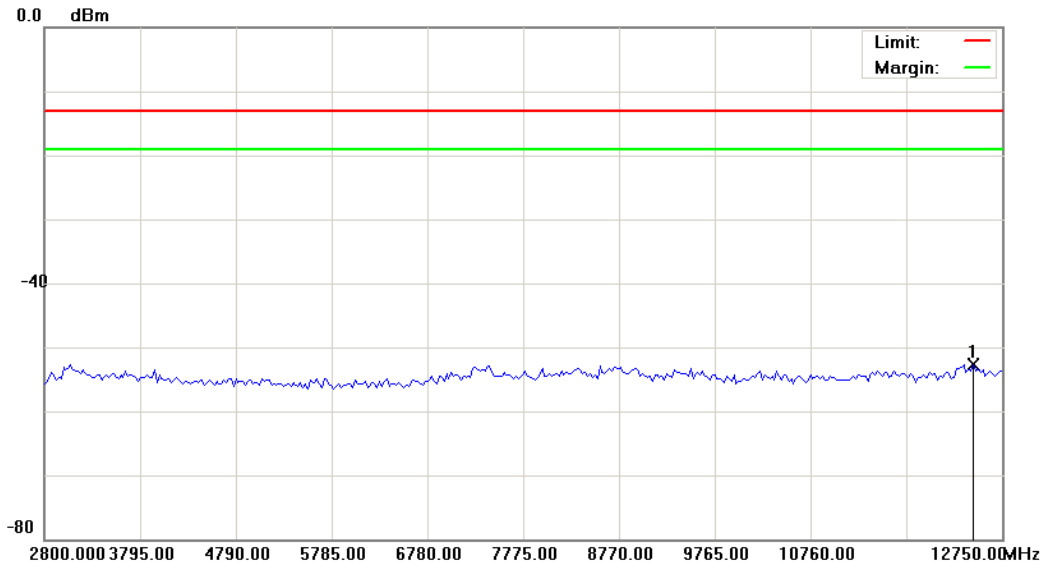
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9262)

Data :#4

Date:2011/9/28

Time: 上午 11:18:27



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA Band II

Note:

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	*	12451.500	-57.70	5.01	-52.69	-13.00	-39.69	peak		

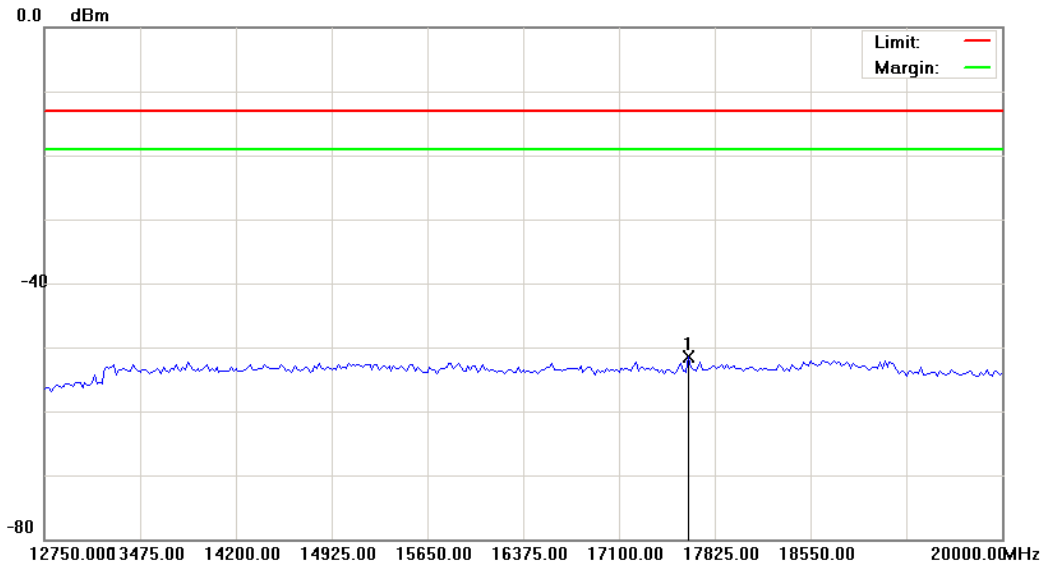
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9262)

Data :#5

Date:2011/9/28

Time: 上午 11:18:50



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 ℃

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA Band II

Note:

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	*	17625.625	-58.34	6.76	-51.58	-13.00	-38.58	peak		

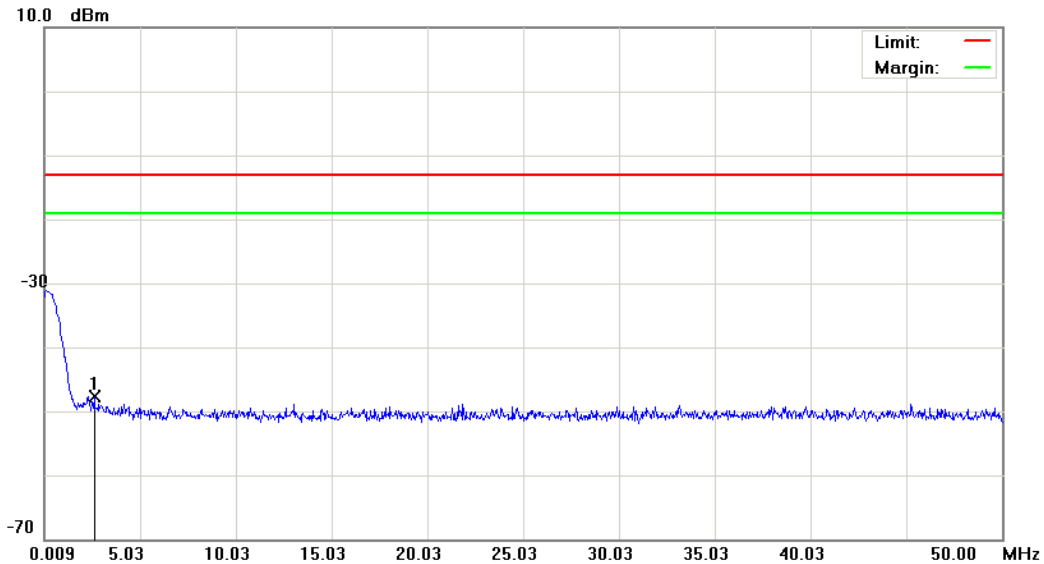
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9400)

Data :#1

Date:2011/9/28

Time: 上午 10:23:54



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	2.6084	-60.44	12.77	-47.67	-13.00	-34.67	peak		

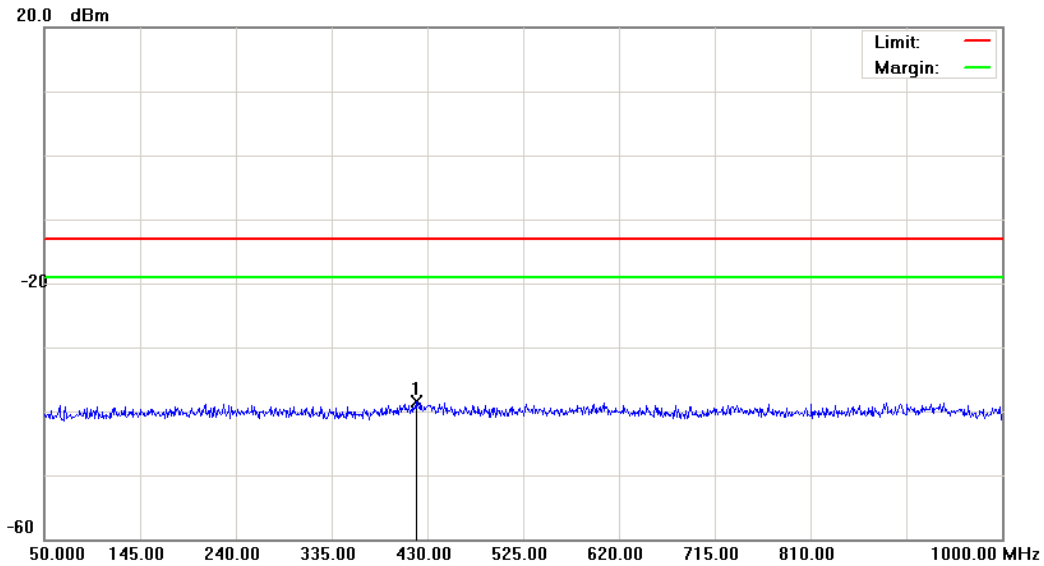
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9400)

Data :#2

Date:2011/9/28

Time: 上午 10:24:18



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

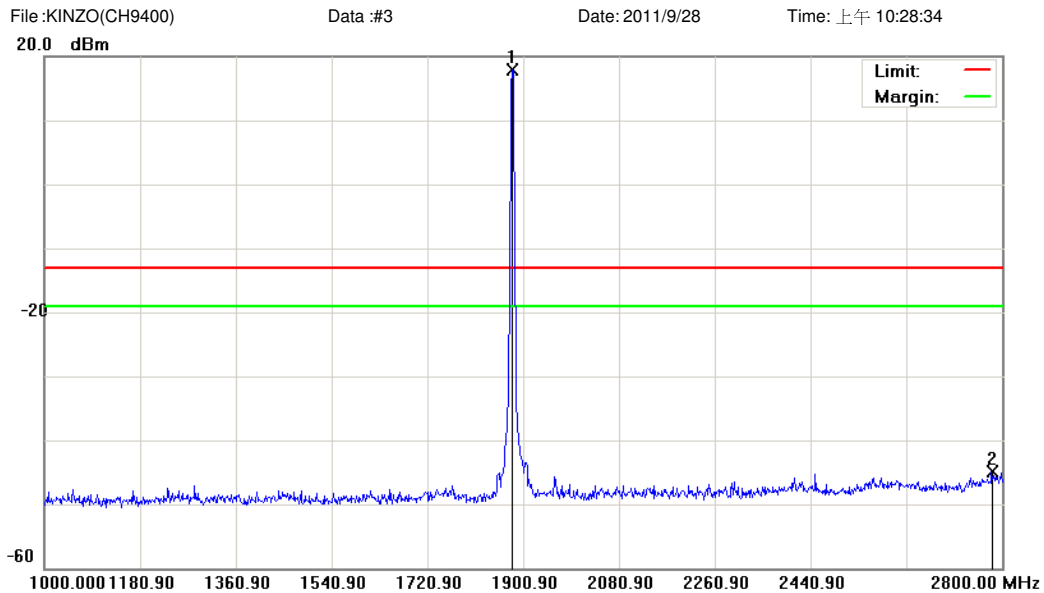
M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	419.0750	-51.74	13.24	-38.50	-13.00	-25.50	peak		

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



Site: : RF Conducted Polarization: **Conducted po** Temperature: 22.8 °C
 Limit: FCC Part 24 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55.4 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: WCDMA BAND II
 Note:

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	*	1878.400	13.24	4.61	17.85	-13.00	30.85	peak		Tx
2		2781.100	-50.83	5.88	-44.95	-13.00	-31.95	peak		

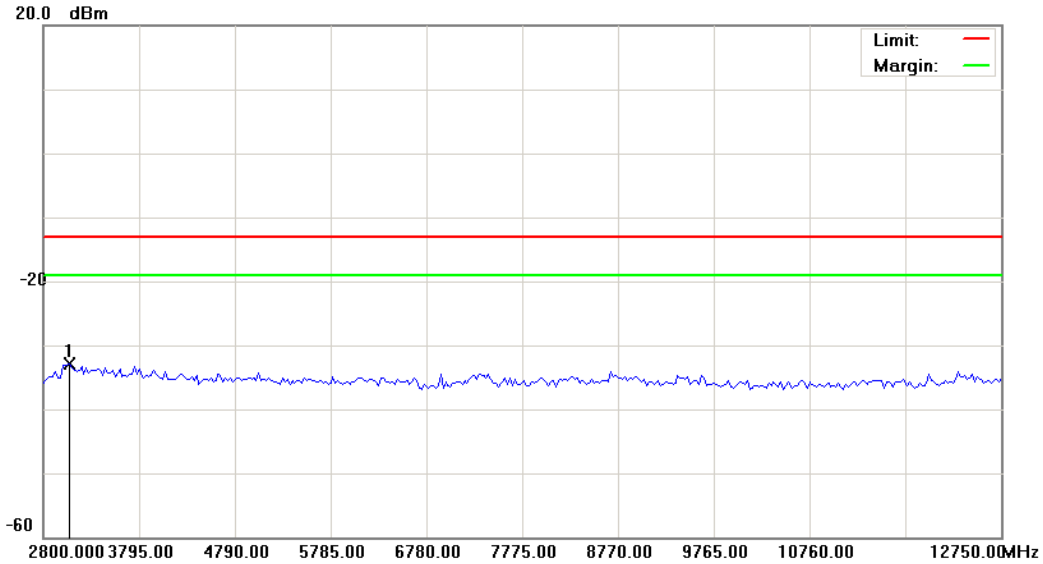
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9400)

Data :#4

Date:2011/9/28

Time: 上午 11:24:40



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8℃

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	3073.625	-38.37	5.40	-32.97	-13.00	-19.97	peak		

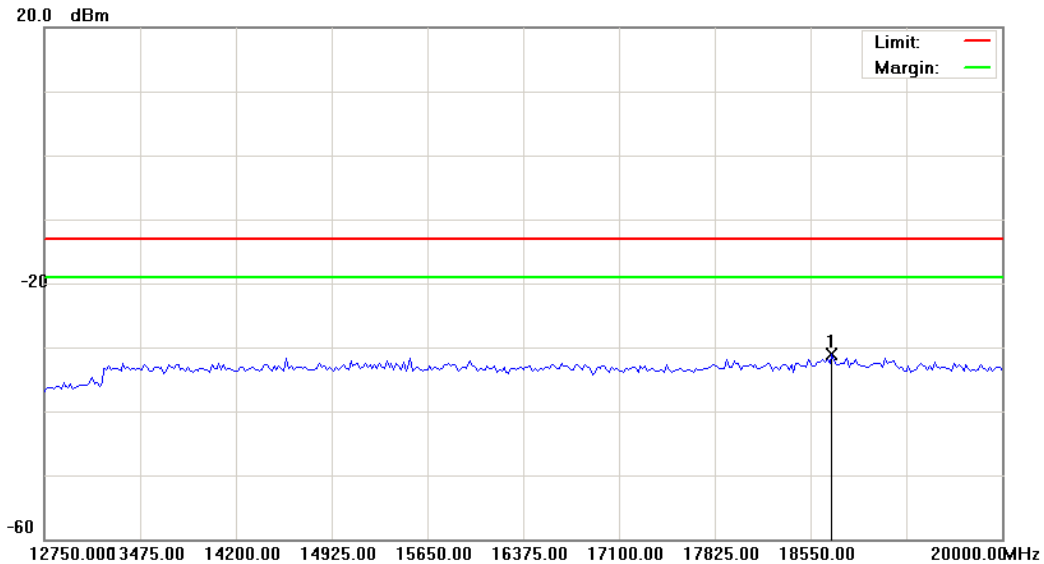
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9400)

Data :#5

Date:2011/9/28

Time: 上午 11:25:04



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	18713.125	-38.14	7.07	-31.07	-13.00	-18.07	peak		

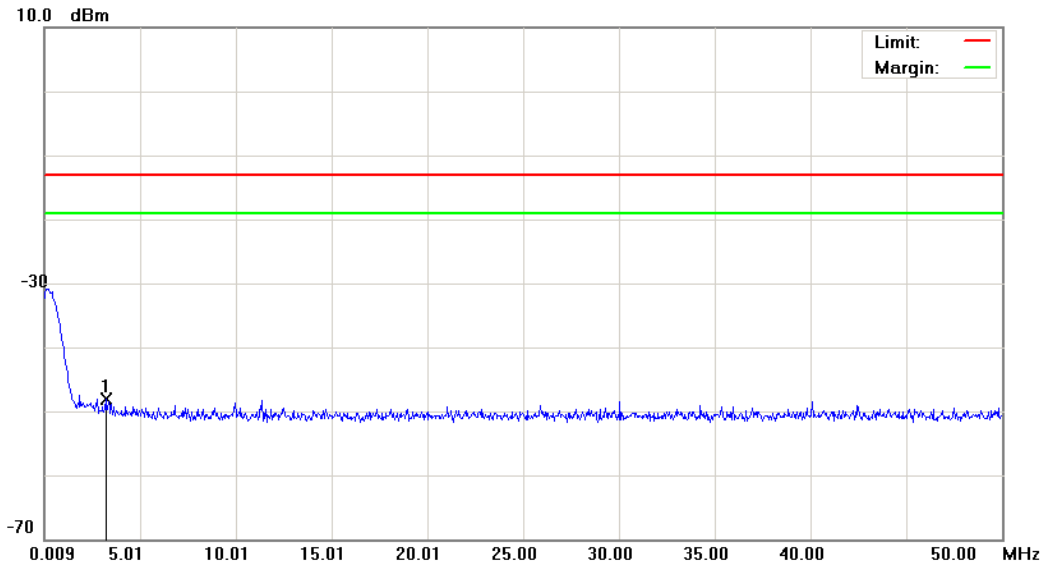
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9538)

Data :#1

Date:2011/9/28

Time: 上午 10:25:44



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	3.2084	-61.18	13.07	-48.11	-13.00	-35.11	peak		

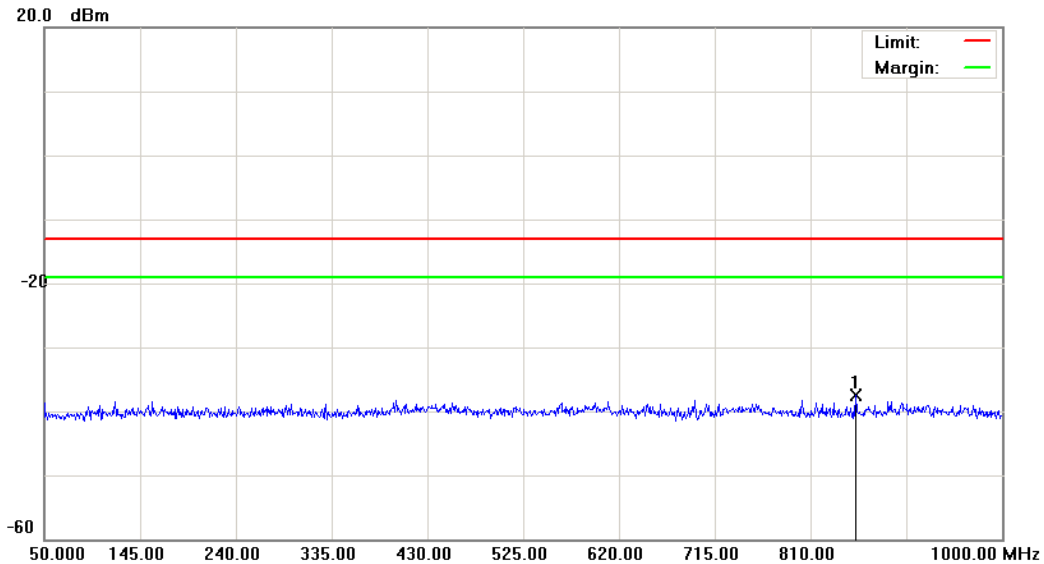
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9538)

Data :#2

Date:2011/9/28

Time: 上午 10:26:08



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

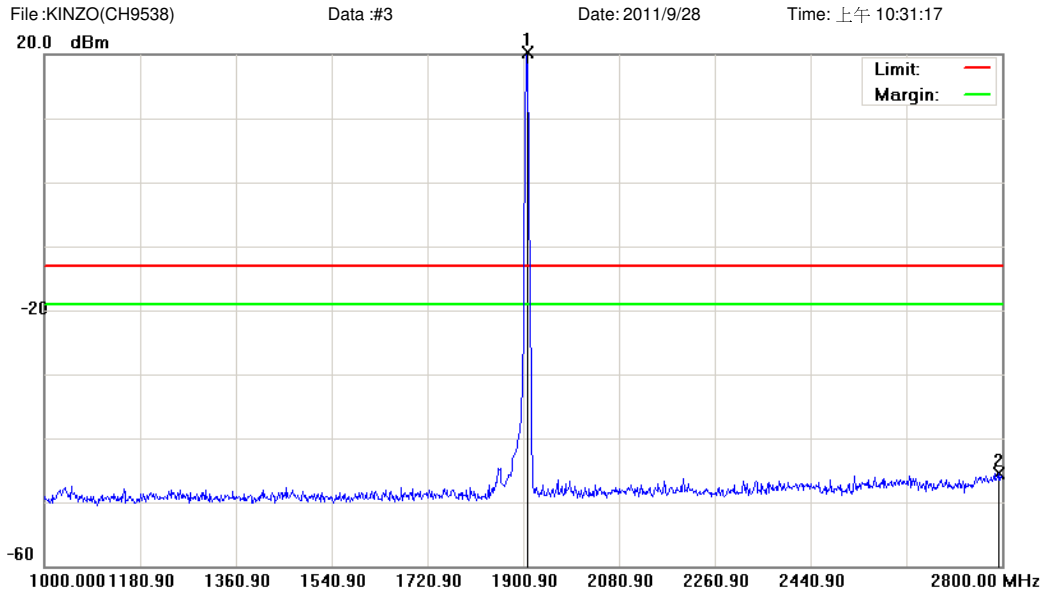
M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	854.6500	-50.76	13.23	-37.53	-13.00	-24.53	peak		

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



Site: : RF Conducted Polarization: **Conducted po** Temperature: 22.8 °C
 Limit: FCC Part 24 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55.4 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: WCDMA BAND II
 Note:

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	14.34	6.05	20.39	-13.00	33.39	peak		Tx
2		2794.600	-51.31	5.90	-45.41	-13.00	-32.41	peak		

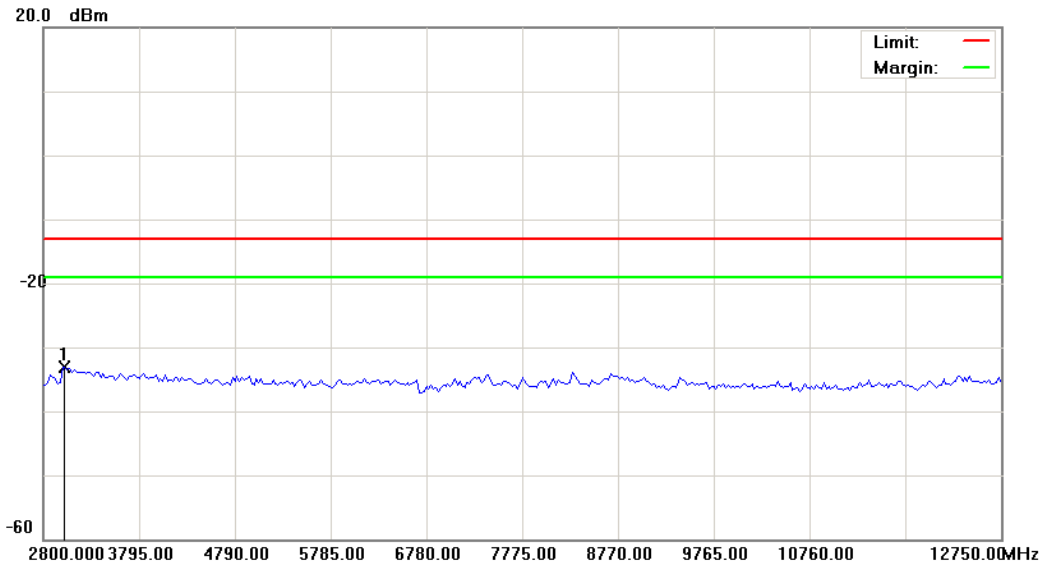
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9538)

Data :#4

Date:2011/9/28

Time: 上午 11:25:53



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	3023.875	-38.58	5.48	-33.10	-13.00	-20.10	peak		

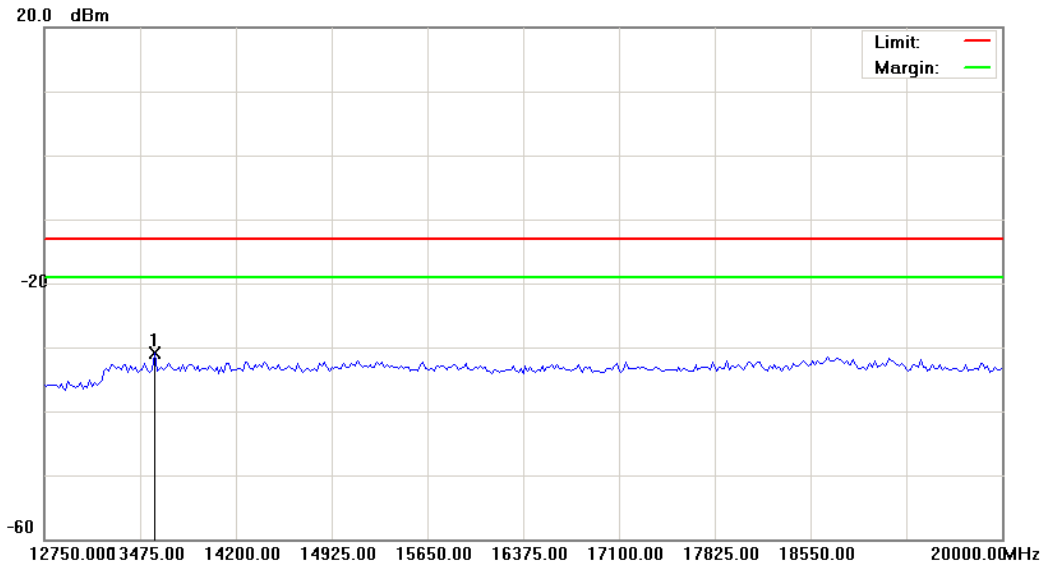
*:Maximum data x:Over limit !:over margin

File :KINZO(CH9538)

Data :#5

Date:2011/9/28

Time: 上午 11:26:16



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND II

Note:

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	*	13583.750	-36.56	5.61	-30.95	-13.00	-17.95	peak		

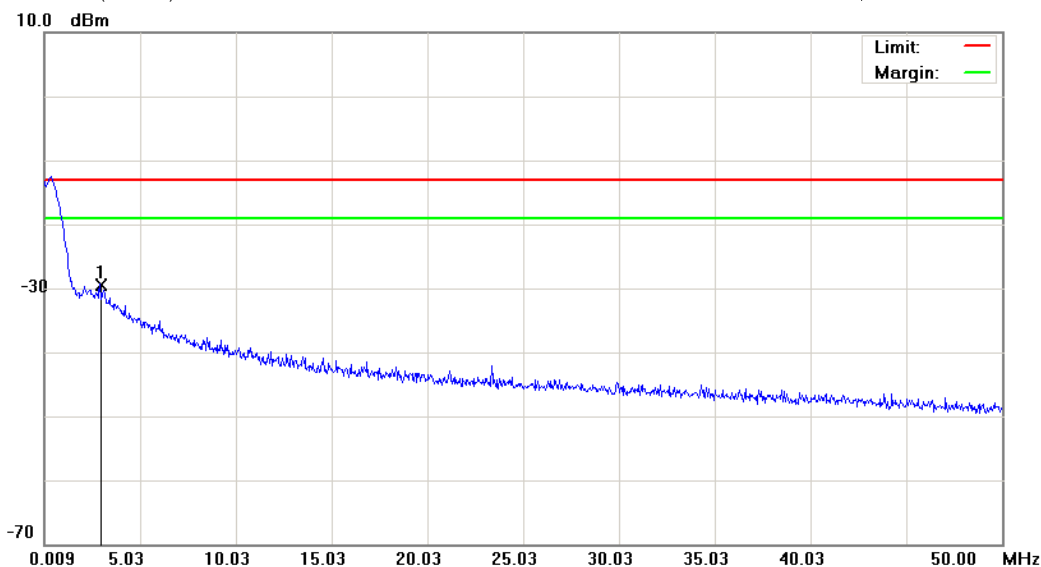
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4132)

Data :#1

Date:2011/9/28

Time: 上午 10:41:01



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

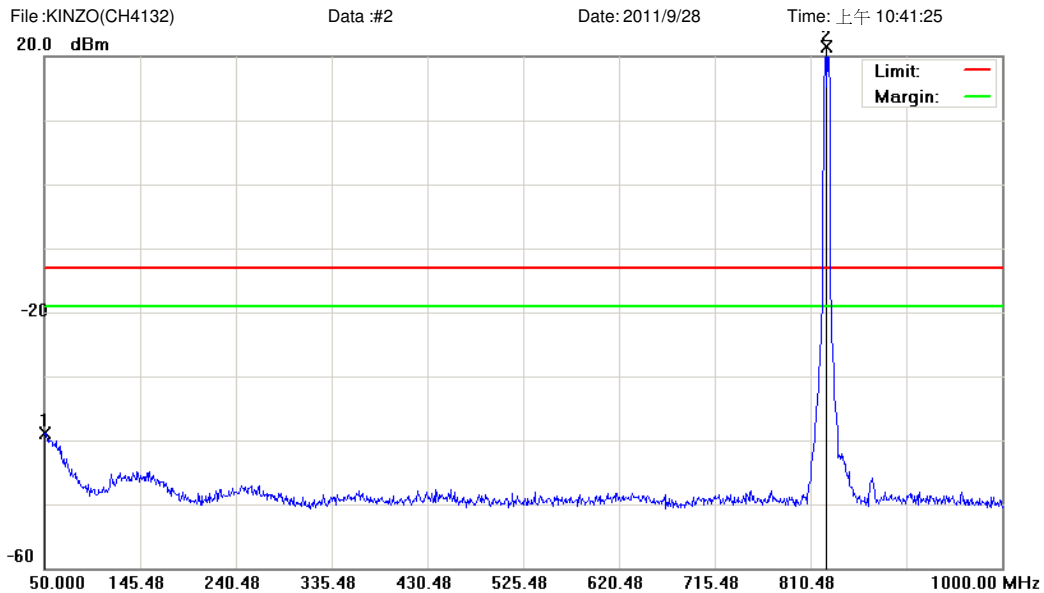
M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	2.9334	-60.07	30.67	-29.40	-13.00	-16.40	peak		

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



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 22.8 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.4 %
EUT: PDA Phone	Distance:	RBW: 1000 kHz VBW: 1000 kHz
M/N: KINZO		
Mode: WCDMA BAND V		
Note:		

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		50.4750	-53.52	14.61	-38.91	-13.00	-25.91	peak		Tx
2	*	825.2000	17.69	3.84	21.53	-13.00	34.53	peak		

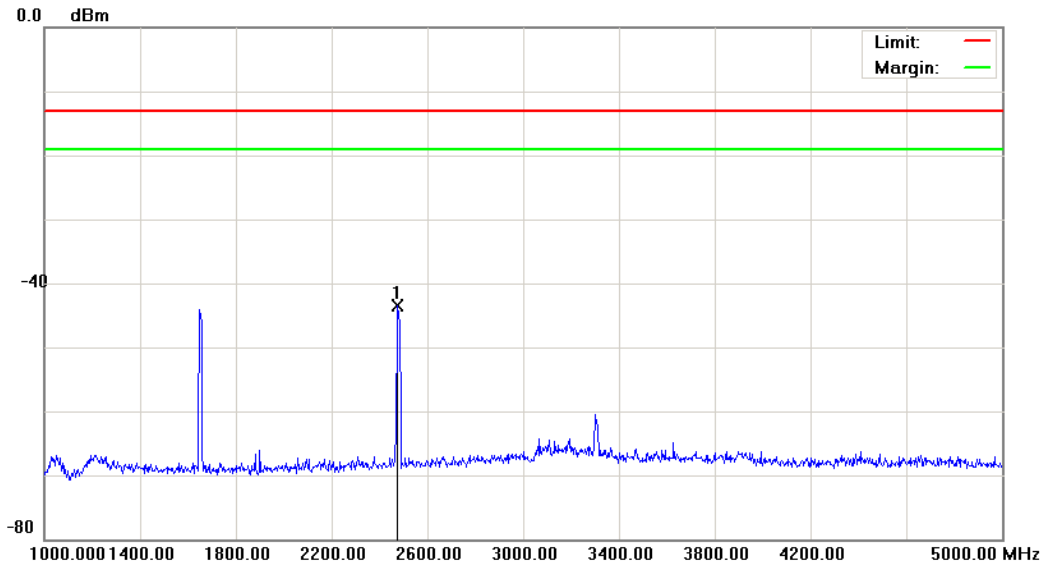
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4132)

Data :#3

Date:2011/9/28

Time: 上午 11:08:32



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	2476.000	-47.98	4.44	-43.54	-13.00	-30.54	peak		

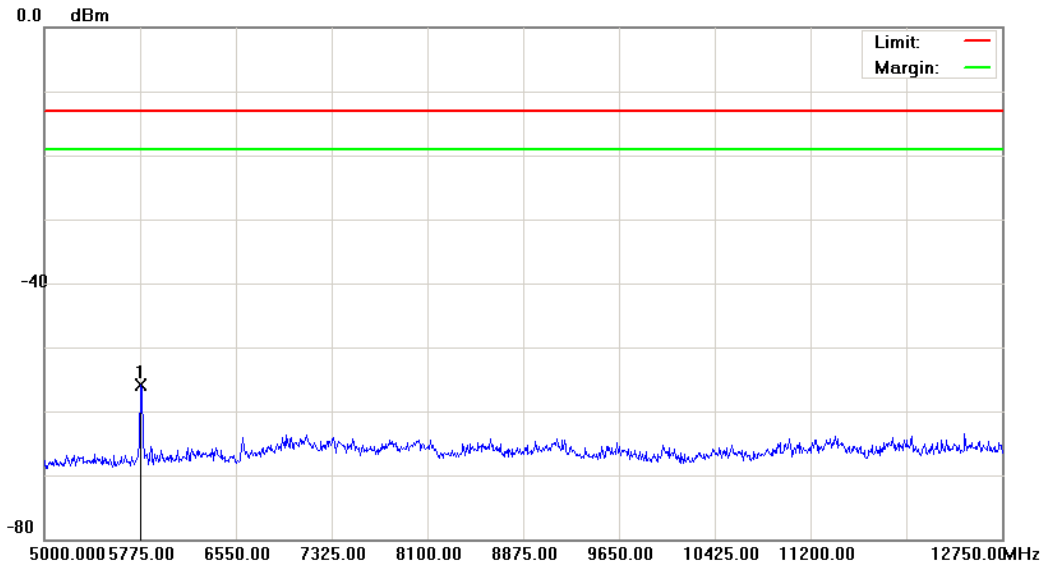
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4132)

Data :#4

Date:2011/9/28

Time: 上午 11:08:55



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	5778.875	-60.91	5.06	-55.85	-13.00	-42.85	peak		

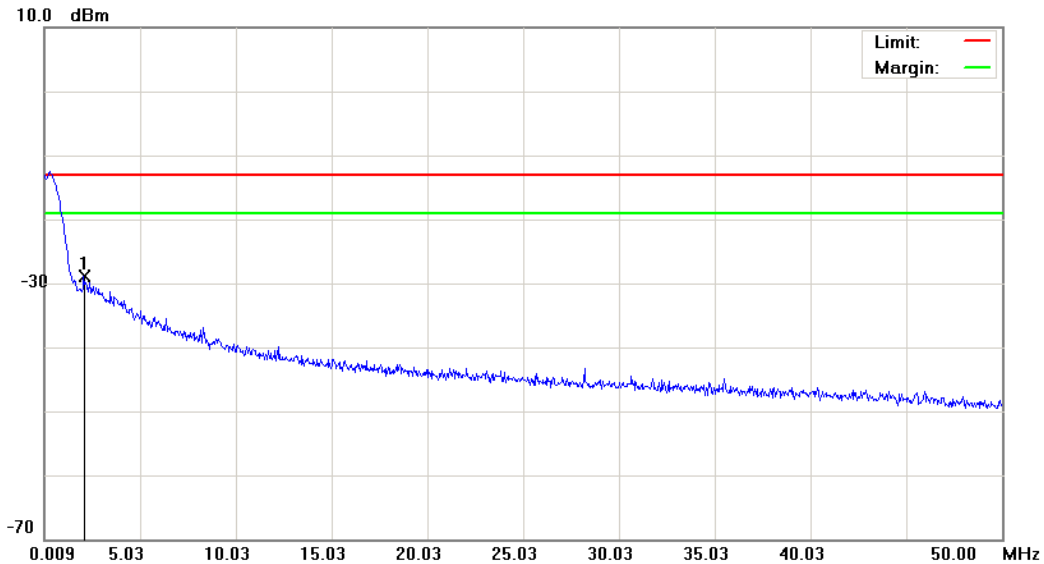
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4183)

Data :#1

Date:2011/9/28

Time: 上午 10:46:18



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

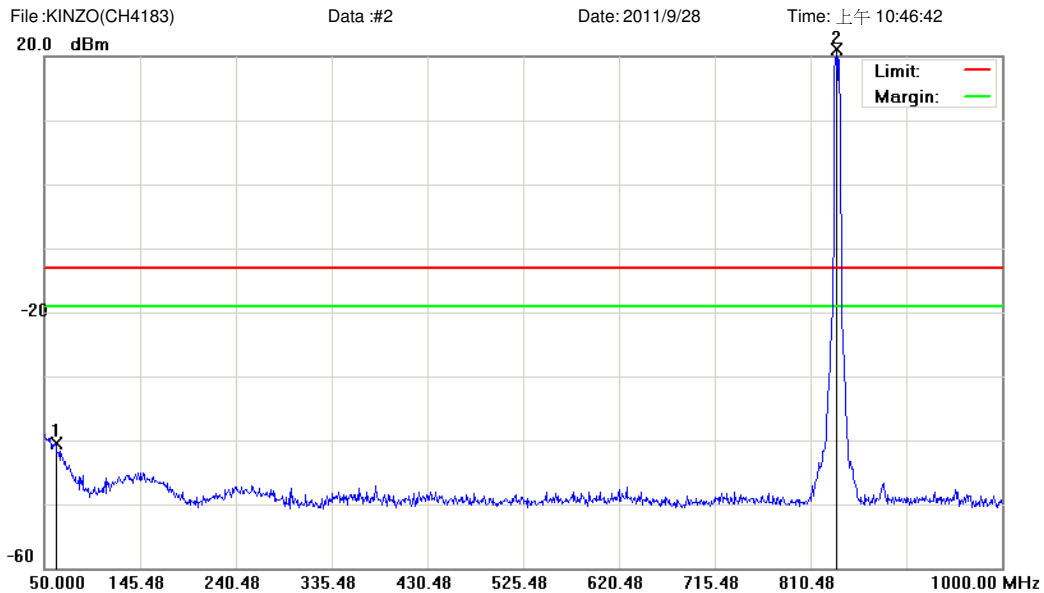
M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	2.0836	-60.47	31.50	-28.97	-13.00	-15.97	peak		

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



Site: : RF Conducted Polarization: *Conducted po* Temperature: 22.8 °C
 Limit: FCC Part 22 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55.4 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: WCDMA BAND V
 Note:

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		60.9250	-53.24	12.67	-40.57	-13.00	-27.57	peak		Tx
2	*	835.1750	17.13	3.95	21.08	-13.00	34.08	peak		

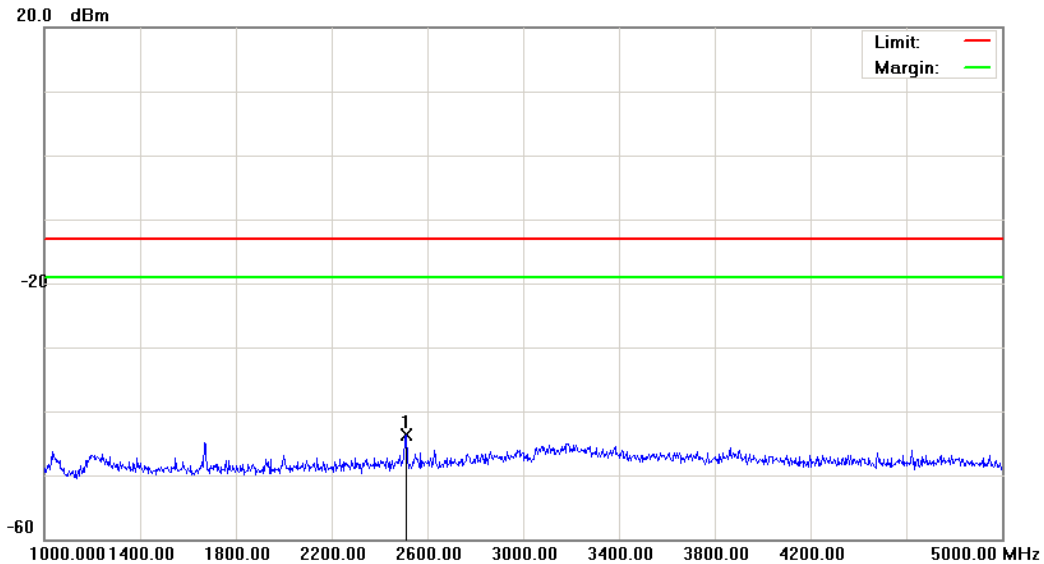
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4183)

Data :#3

Date:2011/9/28

Time: 上午 11:05:59



Site: : RF Conducted

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

EUT: PDA Phone

M/N: KINZO

Mode: WCDMA BAND V

Note:

Polarization: *Conducted po*

Power: AC 120V/60Hz

Distance:

Temperature: 22.8 °C

Humidity: 55.4 %

RBW: 1000 kHz VBW: 1000 kHz

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	*	2512.000	-48.09	4.36	-43.73	-13.00	-30.73	peak		

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

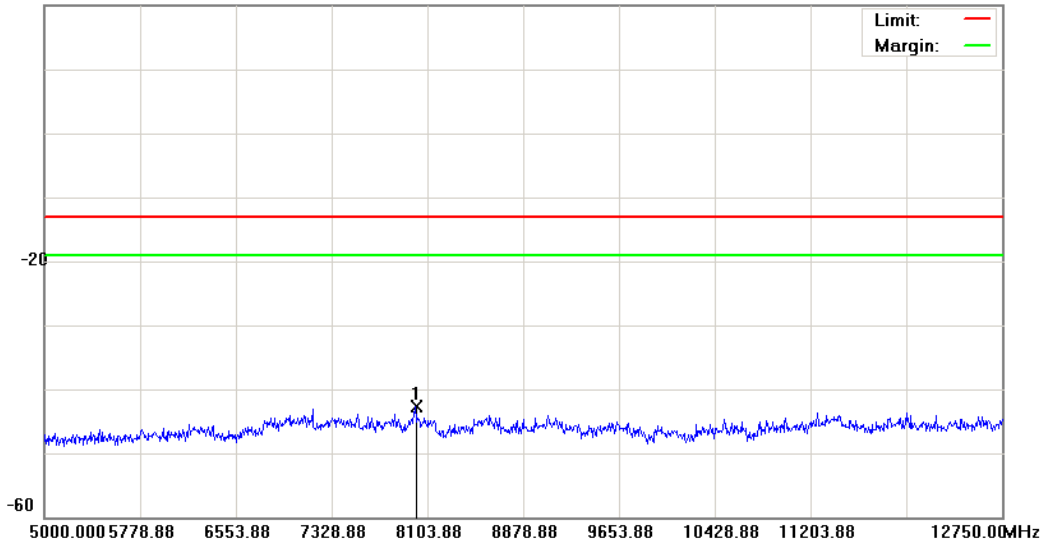
File :KINZO(CH4183)

Data :#4

Date:2011/9/28

Time: 上午 11:06:22

20.0 dBm



Site: : RF Conducted

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

EUT: PDA Phone

M/N: KINZO

Mode: WCDMA BAND V

Note:

Polarization: *Conducted po*

Power: AC 120V/60Hz

Distance:

Temperature: 22.8 °C

Humidity: 55.4 %

RBW: 1000 kHz VBW: 1000 kHz

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	*	8003.125	-48.31	5.56	-42.75	-13.00	-29.75	peak		

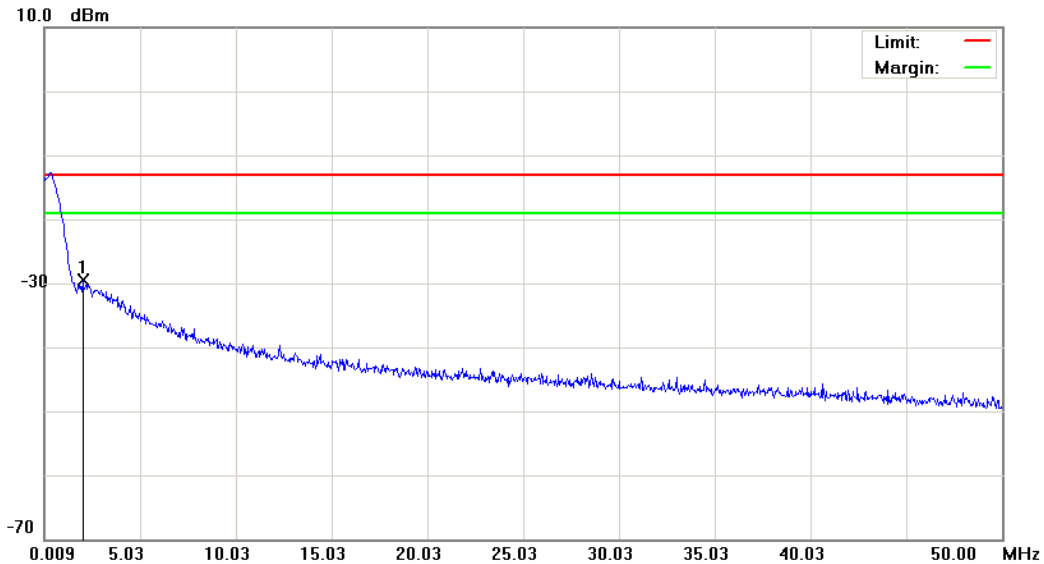
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4233)

Data :#1

Date:2011/9/28

Time: 上午 10:51:17



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

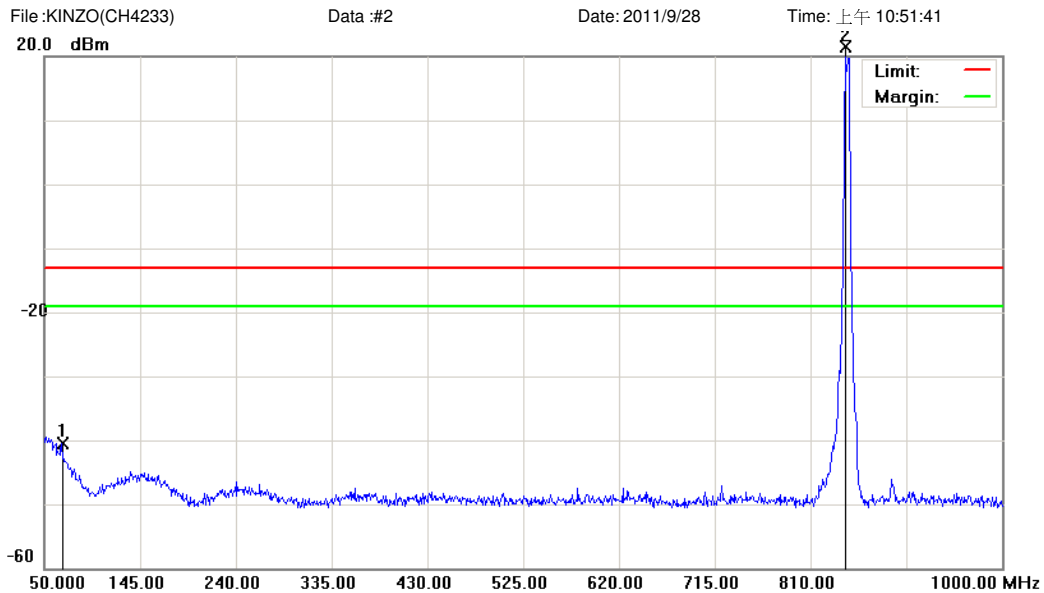
M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	2.0085	-60.90	31.37	-29.53	-13.00	-16.53	peak		

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



Site: : RF Conducted Polarization: *Conducted po* Temperature: 22.8 °C
 Limit: FCC Part 22 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55.4 %
 EUT: PDA Phone Distance: RBW: 1000 kHz VBW: 1000 kHz
 M/N: KINZO
 Mode: WCDMA BAND V
 Note:

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		67.5750	-51.67	11.17	-40.50	-13.00	-27.50	peak		TX
2	*	845.1500	17.48	3.99	21.47	-13.00	34.47	peak		

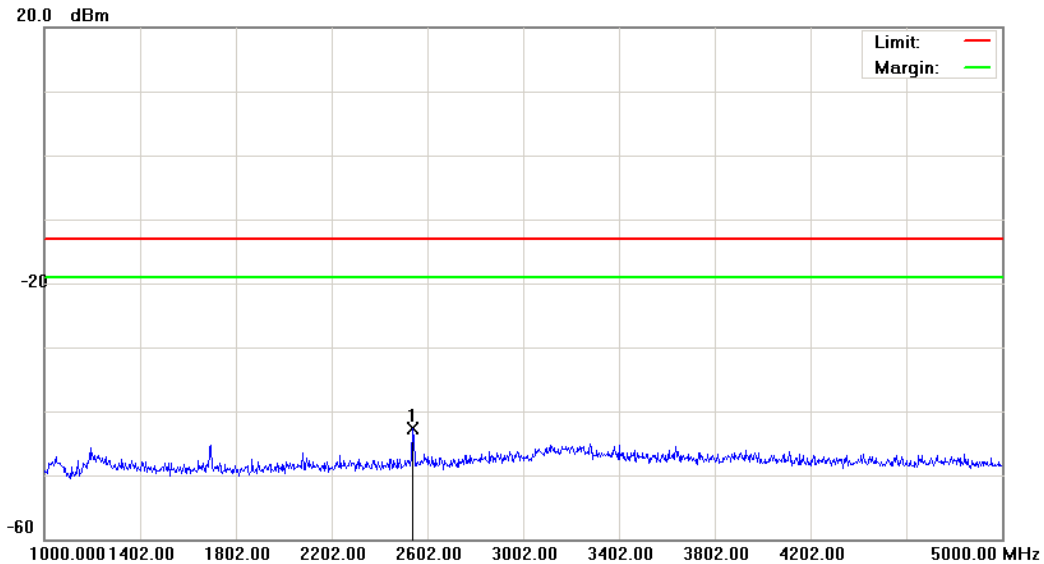
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4233)

Data :#3

Date:2011/9/28

Time: 上午 11:01:15



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	2538.000	-47.07	4.42	-42.65	-13.00	-29.65	peak		

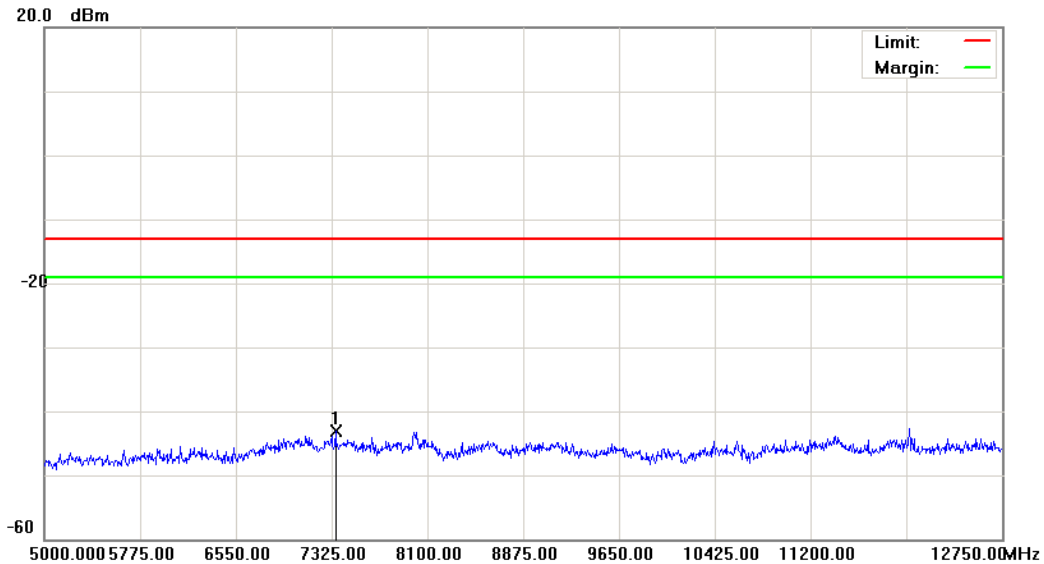
*:Maximum data x:Over limit !:over margin

File :KINZO(CH4233)

Data :#4

Date:2011/9/28

Time: 上午 11:01:38



Site: : RF Conducted

Polarization: *Conducted po*

Temperature: 22.8 °C

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

Power: AC 120V/60Hz

Humidity: 55.4 %

EUT: PDA Phone

Distance:

RBW: 1000 kHz VBW: 1000 kHz

M/N: KINZO

Mode: WCDMA BAND V

Note:

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	*	7356.000	-48.12	5.05	-43.07	-13.00	-30.07	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.

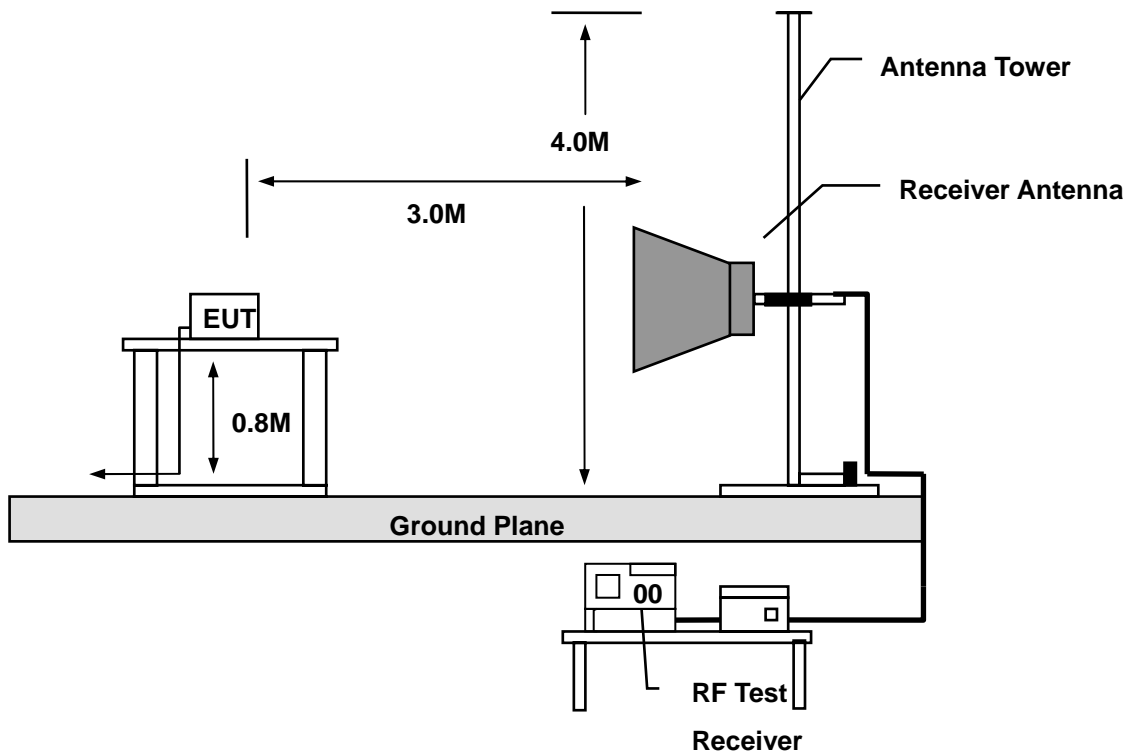
6.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/29/2011	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	12/24/2011	(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 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:	KINZO	Temp.(°C)/Hum. (%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/11/06
Frequency:	824.2 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	48.5000	-109.83	35.79	-74.04	-13.00	-61.04	peak	H
2	190.0000	-108.54	20.79	-87.75	-13.00	-74.75	peak	H
3	377.0000	-107.93	27.94	-79.99	-13.00	-66.99	peak	H
4	566.5000	-107.58	35.79	-71.79	-13.00	-58.79	peak	H
5	896.0000	-109.99	40.81	-69.18	-13.00	-56.18	peak	H
6	945.0000	-110.30	41.50	-68.80	-13.00	-55.80	peak	H
7	2884.000	-67.62	13.53	-54.09	-13.00	-41.09	peak	H
8	5440.000	-71.27	21.50	-49.77	-13.00	-36.77	peak	H
9	8320.000	-72.57	29.07	-43.50	-13.00	-30.50	peak	H
1	154.0000	-110.86	37.04	-73.82	-13.00	-60.82	peak	V
2	304.0000	-109.17	29.15	-80.02	-13.00	-67.02	peak	V
3	551.5000	-108.77	32.36	-76.41	-13.00	-63.41	peak	V
4	713.0000	-109.41	38.36	-71.05	-13.00	-58.05	peak	V
5	752.0000	-109.31	38.37	-70.94	-13.00	-57.94	peak	V
6	985.5000	-110.04	39.15	-70.89	-13.00	-57.89	peak	V
7	4300.000	-70.16	21.54	-48.62	-13.00	-35.62	peak	V
8	6604.000	-71.93	25.02	-46.91	-13.00	-33.91	peak	V
9	8416.000	-71.77	26.12	-45.65	-13.00	-32.65	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/11/06
Frequency:	836.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	44.0000	-109.80	36.61	-73.19	-13.00	-60.19	peak	H
2	167.5000	-109.84	22.81	-87.03	-13.00	-74.03	peak	H
3	387.5000	-109.56	28.81	-80.75	-13.00	-67.75	peak	H
4	642.0000	-109.43	34.71	-74.72	-13.00	-61.72	peak	H
5	818.0000	-109.38	39.09	-70.29	-13.00	-57.29	peak	H
6	956.5000	-109.44	41.47	-67.97	-13.00	-54.97	peak	H
7	2560.000	-68.52	12.41	-56.11	-13.00	-43.11	peak	H
8	4240.000	-69.62	16.73	-52.89	-13.00	-39.89	peak	H
9	6700.000	-72.24	26.72	-45.52	-13.00	-32.52	peak	H
1	113.0000	-110.31	29.41	-80.90	-13.00	-67.90	peak	V
2	214.5000	-110.18	34.22	-75.96	-13.00	-62.96	peak	V
3	491.5000	-109.89	30.56	-79.33	-13.00	-66.33	peak	V
4	728.0000	-110.25	38.42	-71.83	-13.00	-58.83	peak	V
5	851.0000	-110.20	38.70	-71.50	-13.00	-58.50	peak	V
6	970.5000	-110.63	38.98	-71.65	-13.00	-58.65	peak	V
7	5248.000	-72.14	23.47	-48.67	-13.00	-35.67	peak	V
8	5488.000	-71.11	23.48	-47.63	-13.00	-34.63	peak	V
9	8116.000	-72.13	26.29	-45.84	-13.00	-32.84	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/11/06
Frequency:	848.8 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	40.5000	-110.25	37.25	-73.00	-13.00	-60.00	peak	H
2	72.0000	-109.20	25.27	-83.93	-13.00	-70.93	peak	H
3	193.5000	-109.20	23.99	-85.21	-13.00	-72.21	peak	H
4	414.5000	-108.98	30.83	-78.15	-13.00	-65.15	peak	H
5	650.0000	-108.70	34.85	-73.85	-13.00	-60.85	peak	H
6	757.5000	-110.00	36.54	-73.46	-13.00	-60.46	peak	H
7	3136.000	-68.48	14.35	-54.13	-13.00	-41.13	peak	H
8	3892.000	-69.87	16.25	-53.62	-13.00	-40.62	peak	H
9	5056.000	-71.62	20.27	-51.35	-13.00	-38.35	peak	H
1	130.0000	-110.02	41.74	-68.28	-13.00	-55.28	peak	V
2	238.0000	-109.31	27.52	-81.79	-13.00	-68.79	peak	V
3	490.5000	-108.93	30.55	-78.38	-13.00	-65.38	peak	V
4	710.0000	-108.62	38.26	-70.36	-13.00	-57.36	peak	V
5	904.0000	-109.66	37.68	-71.98	-13.00	-58.98	peak	V
6	997.0000	-109.33	39.57	-69.76	-13.00	-56.76	peak	V
7	4192.000	-70.35	21.19	-49.16	-13.00	-36.16	peak	V
8	6148.000	-73.02	23.38	-49.64	-13.00	-36.64	peak	V
9	8080.000	-72.33	26.31	-46.02	-13.00	-33.02	peak	V

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

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	61.0000	-108.34	31.63	-76.71	-13.00	-63.71	peak	H
2	288.5000	-109.50	23.20	-86.30	-13.00	-73.30	peak	H
3	510.0000	-109.78	35.29	-74.49	-13.00	-61.49	peak	H
4	758.0000	-109.59	36.57	-73.02	-13.00	-60.02	peak	H
5	842.5000	-110.83	39.44	-71.39	-13.00	-58.39	peak	H
6	907.5000	-110.11	41.11	-69.00	-13.00	-56.00	peak	H
7	4948.000	-70.92	19.78	-51.14	-13.00	-38.14	peak	H
8	8140.000	-72.58	29.38	-43.20	-13.00	-30.20	peak	H
9	10576.000	-73.27	34.44	-38.83	-13.00	-25.83	peak	H
1	113.5000	-109.92	29.57	-80.35	-13.00	-67.35	peak	V
2	179.5000	-109.55	29.23	-80.32	-13.00	-67.32	peak	V
3	315.5000	-109.27	28.28	-80.99	-13.00	-67.99	peak	V
4	577.5000	-108.74	33.75	-74.99	-13.00	-61.99	peak	V
5	641.5000	-110.10	36.54	-73.56	-13.00	-60.56	peak	V
6	789.5000	-109.00	38.94	-70.06	-13.00	-57.06	peak	V
7	2596.000	-67.97	13.10	-54.87	-13.00	-41.87	peak	V
8	6460.000	-72.50	24.73	-47.77	-13.00	-34.77	peak	V
9	9100.000	-70.52	25.05	-45.47	-13.00	-32.47	peak	V

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

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	44.5000	-109.91	36.52	-73.39	-13.00	-60.39	peak	H
2	236.5000	-109.15	25.11	-84.04	-13.00	-71.04	peak	H
3	365.5000	-109.33	27.43	-81.90	-13.00	-68.90	peak	H
4	578.0000	-108.66	35.64	-73.02	-13.00	-60.02	peak	H
5	692.0000	-110.58	34.76	-75.82	-13.00	-62.82	peak	H
6	812.0000	-109.80	38.91	-70.89	-13.00	-57.89	peak	H
7	4444.000	-70.69	16.98	-53.71	-13.00	-40.71	peak	H
8	7252.000	-72.78	28.39	-44.39	-13.00	-31.39	peak	H
9	10324.000	-73.47	33.47	-40.00	-13.00	-27.00	peak	H
1	214.0000	-109.59	34.40	-75.19	-13.00	-62.19	peak	V
2	415.5000	-109.31	28.97	-80.34	-13.00	-67.34	peak	V
3	534.0000	-109.08	31.93	-77.15	-13.00	-64.15	peak	V
4	663.5000	-109.09	37.26	-71.83	-13.00	-58.83	peak	V
5	827.5000	-110.86	38.55	-72.31	-13.00	-59.31	peak	V
6	980.0000	-110.41	38.95	-71.46	-13.00	-58.46	peak	V
7	2236.000	-67.37	10.85	-56.52	-13.00	-43.52	peak	V
8	5260.000	-71.49	23.47	-48.02	-13.00	-35.02	peak	V
9	8944.000	-71.51	24.40	-47.11	-13.00	-34.11	peak	V

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

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	52.0000	-110.67	34.87	-75.80	-13.00	-62.80	peak	H
2	288.0000	-110.05	23.16	-86.89	-13.00	-73.89	peak	H
3	590.5000	-109.08	35.79	-73.29	-13.00	-60.29	peak	H
4	702.0000	-110.22	34.75	-75.47	-13.00	-62.47	peak	H
5	855.0000	-110.23	39.99	-70.24	-13.00	-57.24	peak	H
6	920.5000	-109.95	41.44	-68.51	-13.00	-55.51	peak	H
7	5728.000	-70.20	22.31	-47.89	-13.00	-34.89	peak	H
8	7012.000	-71.57	27.62	-43.95	-13.00	-30.95	peak	H
9	9232.000	-72.09	28.04	-44.05	-13.00	-31.05	peak	H
1	157.5000	-109.27	38.73	-70.54	-13.00	-57.54	peak	V
2	204.5000	-109.06	36.59	-72.47	-13.00	-59.47	peak	V
3	387.0000	-109.56	28.90	-80.66	-13.00	-67.66	peak	V
4	692.5000	-110.06	37.74	-72.32	-13.00	-59.32	peak	V
5	761.5000	-109.49	38.53	-70.96	-13.00	-57.96	peak	V
6	913.0000	-110.47	38.18	-72.29	-13.00	-59.29	peak	V
7	3268.000	-69.27	18.08	-51.19	-13.00	-38.19	peak	V
8	4852.000	-70.80	23.07	-47.73	-13.00	-34.73	peak	V
9	5740.000	-72.71	23.13	-49.58	-13.00	-36.58	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2011/11/06
Frequency:	1852.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	47.0000	-110.07	36.06	-74.01	-13.00	-61.01	peak	H
2	271.0000	-110.05	22.35	-87.70	-13.00	-74.70	peak	H
3	547.0000	-108.91	36.13	-72.78	-13.00	-59.78	peak	H
4	733.0000	-109.45	35.65	-73.80	-13.00	-60.80	peak	H
5	797.5000	-109.99	38.40	-71.59	-13.00	-58.59	peak	H
6	940.5000	-110.09	41.51	-68.58	-13.00	-55.58	peak	H
7	2836.000	-69.19	13.36	-55.83	-13.00	-42.83	peak	H
8	6004.000	-71.61	23.08	-48.53	-13.00	-35.53	peak	H
9	8476.000	-71.65	28.81	-42.84	-13.00	-29.84	peak	H
1	121.5000	-109.47	33.34	-76.13	-13.00	-63.13	peak	V
2	225.0000	-109.00	30.61	-78.39	-13.00	-65.39	peak	V
3	404.5000	-109.41	28.88	-80.53	-13.00	-67.53	peak	V
4	529.5000	-110.06	31.66	-78.40	-13.00	-65.40	peak	V
5	746.0000	-110.38	38.26	-72.12	-13.00	-59.12	peak	V
6	810.5000	-108.84	38.82	-70.02	-13.00	-57.02	peak	V
7	3004.000	-68.60	16.44	-52.16	-13.00	-39.16	peak	V
8	5728.000	-72.08	23.16	-48.92	-13.00	-35.92	peak	V
9	9148.000	-72.62	25.46	-47.16	-13.00	-34.16	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2011/11/06
Frequency:	1880.0 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	44.5000	-109.91	36.52	-73.39	-13.00	-60.39	peak	H
2	357.0000	-109.14	27.08	-82.06	-13.00	-69.06	peak	H
3	665.5000	-108.94	34.96	-73.98	-13.00	-60.98	peak	H
4	773.0000	-109.22	37.30	-71.92	-13.00	-58.92	peak	H
5	840.5000	-109.90	39.35	-70.55	-13.00	-57.55	peak	H
6	938.0000	-110.32	41.50	-68.82	-13.00	-55.82	peak	H
7	2404.000	-71.15	11.88	-59.27	-13.00	-46.27	peak	H
8	6832.000	-72.18	27.11	-45.07	-13.00	-32.07	peak	H
9	9808.000	-72.79	31.55	-41.24	-13.00	-28.24	peak	H
1	132.0000	-109.22	40.65	-68.57	-13.00	-55.57	peak	V
2	155.0000	-109.67	37.52	-72.15	-13.00	-59.15	peak	V
3	468.5000	-109.43	29.92	-79.51	-13.00	-66.51	peak	V
4	512.0000	-108.84	30.95	-77.89	-13.00	-64.89	peak	V
5	729.5000	-109.77	38.38	-71.39	-13.00	-58.39	peak	V
6	841.0000	-110.71	38.59	-72.12	-13.00	-59.12	peak	V
7	4432.000	-70.18	21.96	-48.22	-13.00	-35.22	peak	V
8	6016.000	-71.60	22.82	-48.78	-13.00	-35.78	peak	V
9	8368.000	-72.41	26.16	-46.25	-13.00	-33.25	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2011/11/06
Frequency:	1907.6 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	56.5000	-109.74	33.43	-76.31	-13.00	-63.31	peak	H
2	211.0000	-109.45	27.46	-81.99	-13.00	-68.99	peak	H
3	389.0000	-109.71	28.96	-80.75	-13.00	-67.75	peak	H
4	575.5000	-109.93	35.67	-74.26	-13.00	-61.26	peak	H
5	758.0000	-108.94	36.57	-72.37	-13.00	-59.37	peak	H
6	943.0000	-110.00	41.50	-68.50	-13.00	-55.50	peak	H
7	5956.000	-72.02	22.94	-49.08	-13.00	-36.08	peak	H
8	8836.000	-72.36	27.03	-45.33	-13.00	-32.33	peak	H
9	10516.000	-72.42	34.15	-38.27	-13.00	-25.27	peak	H
1	132.5000	-109.63	40.38	-69.25	-13.00	-56.25	peak	V
2	229.5000	-108.88	29.19	-79.69	-13.00	-66.69	peak	V
3	428.0000	-108.71	29.12	-79.59	-13.00	-66.59	peak	V
4	549.5000	-109.50	32.35	-77.15	-13.00	-64.15	peak	V
5	826.0000	-109.88	38.54	-71.34	-13.00	-58.34	peak	V
6	854.0000	-110.81	38.74	-72.07	-13.00	-59.07	peak	V
7	3280.000	-68.49	18.14	-50.35	-13.00	-37.35	peak	V
8	6220.000	-72.58	23.69	-48.89	-13.00	-35.89	peak	V
9	8212.000	-72.27	26.24	-46.03	-13.00	-33.03	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2011/11/06
Frequency:	826.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	232.5000	-108.93	25.60	-83.33	-13.00	-70.33	peak	H
2	431.0000	-109.84	31.43	-78.41	-13.00	-65.41	peak	H
3	608.0000	-108.53	35.83	-72.70	-13.00	-59.70	peak	H
4	660.0000	-110.10	35.01	-75.09	-13.00	-62.09	peak	H
5	749.5000	-108.40	36.24	-72.16	-13.00	-59.16	peak	H
6	967.0000	-110.48	41.21	-69.27	-13.00	-56.27	peak	H
7	3292.000	-68.70	14.85	-53.85	-13.00	-40.85	peak	H
8	5296.000	-71.44	21.03	-50.41	-13.00	-37.41	peak	H
9	10156.000	-73.11	32.91	-40.20	-13.00	-27.20	peak	H
1	93.0000	-107.86	22.91	-84.95	-13.00	-71.95	peak	V
2	145.5000	-109.80	35.65	-74.15	-13.00	-61.15	peak	V
3	352.0000	-109.07	29.03	-80.04	-13.00	-67.04	peak	V
4	529.5000	-109.77	31.66	-78.11	-13.00	-65.11	peak	V
5	695.5000	-109.65	37.82	-71.83	-13.00	-58.83	peak	V
6	872.5000	-105.30	38.30	-67.00	-13.00	-54.00	peak	V
7	3100.000	-68.66	17.04	-51.62	-13.00	-38.62	peak	V
8	5440.000	-71.69	23.49	-48.20	-13.00	-35.20	peak	V
9	9424.000	-70.95	27.84	-43.11	-13.00	-30.11	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2011/11/06
Frequency:	836.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	41.0000	-110.21	37.15	-73.06	-13.00	-60.06	peak	H
2	259.0000	-109.10	22.36	-86.74	-13.00	-73.74	peak	H
3	558.0000	-109.80	35.90	-73.90	-13.00	-60.90	peak	H
4	682.5000	-108.41	34.83	-73.58	-13.00	-60.58	peak	H
5	775.5000	-109.78	37.42	-72.36	-13.00	-59.36	peak	H
6	923.5000	-109.58	41.45	-68.13	-13.00	-55.13	peak	H
7	3628.000	-69.40	15.73	-53.67	-13.00	-40.67	peak	H
8	6016.000	-72.10	23.15	-48.95	-13.00	-35.95	peak	H
9	9412.000	-71.40	29.50	-41.90	-13.00	-28.90	peak	H
1	130.0000	-110.13	41.74	-68.39	-13.00	-55.39	peak	V
2	163.0000	-109.39	37.07	-72.32	-13.00	-59.32	peak	V
3	389.5000	-109.59	28.88	-80.71	-13.00	-67.71	peak	V
4	590.5000	-108.68	34.74	-73.94	-13.00	-60.94	peak	V
5	727.0000	-109.65	38.42	-71.23	-13.00	-58.23	peak	V
6	914.0000	-110.28	38.23	-72.05	-13.00	-59.05	peak	V
7	3028.000	-69.76	16.59	-53.17	-13.00	-40.17	peak	V
8	6556.000	-72.39	24.96	-47.43	-13.00	-34.43	peak	V
9	9556.000	-71.75	28.72	-43.03	-13.00	-30.03	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	KINZO	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2011/11/06
Frequency:	846.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	69.0000	-109.01	26.23	-82.78	-13.00	-69.78	peak	H
2	293.0000	-109.50	23.67	-85.83	-13.00	-72.83	peak	H
3	451.0000	-108.81	32.14	-76.67	-13.00	-63.67	peak	H
4	622.5000	-109.34	35.51	-73.83	-13.00	-60.83	peak	H
5	741.5000	-109.33	35.93	-73.40	-13.00	-60.40	peak	H
6	808.5000	-110.01	38.79	-71.22	-13.00	-58.22	peak	H
7	4372.000	-70.36	16.90	-53.46	-13.00	-40.46	peak	H
8	6448.000	-71.20	25.83	-45.37	-13.00	-32.37	peak	H
9	7216.000	-72.13	28.28	-43.85	-13.00	-30.85	peak	H
1	126.5000	-110.86	38.28	-72.58	-13.00	-59.58	peak	V
2	258.0000	-109.18	25.27	-83.91	-13.00	-70.91	peak	V
3	487.5000	-110.11	30.49	-79.62	-13.00	-66.62	peak	V
4	595.5000	-109.41	35.12	-74.29	-13.00	-61.29	peak	V
5	706.5000	-109.49	38.15	-71.34	-13.00	-58.34	peak	V
6	920.5000	-109.63	38.59	-71.04	-13.00	-58.04	peak	V
7	4612.000	-70.97	22.46	-48.51	-13.00	-35.51	peak	V
8	8164.000	-72.77	26.26	-46.51	-13.00	-33.51	peak	V
9	9724.000	-72.30	29.40	-42.90	-13.00	-29.90	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.

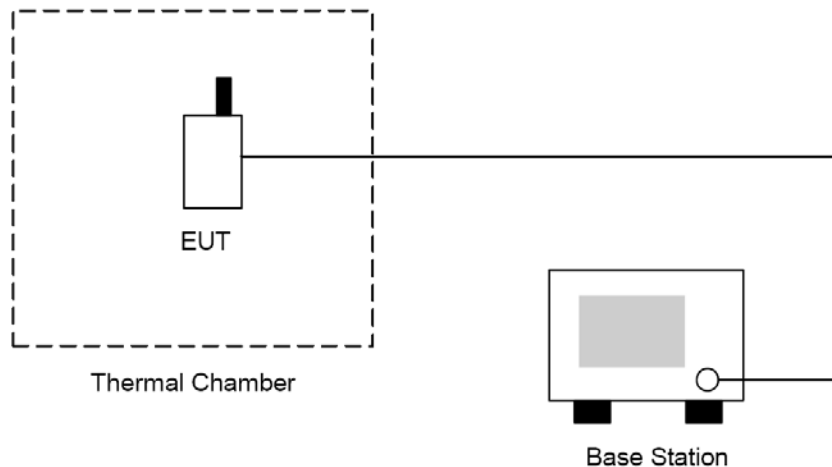
7.2. Test Instruments

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	08/24/2011	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

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

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

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	KINZO			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link			
Date of Test	09/29/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-13	-0.016	±2.5	Pass
-20	-12	-0.014	±2.5	Pass
-10	-13	-0.016	±2.5	Pass
0	-9	-0.011	±2.5	Pass
10	-9	-0.011	±2.5	Pass
20	-7	-0.008	±2.5	Pass
30	-7	-0.008	±2.5	Pass
40	-10	-0.012	±2.5	Pass
50	-10	-0.012	±2.5	Pass

Model Number	KINZO			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link			
Date of Test	09/29/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-27	-0.014	±2.5	Pass
-20	-26	-0.014	±2.5	Pass
-10	-27	-0.014	±2.5	Pass
0	-22	-0.012	±2.5	Pass
10	-24	-0.013	±2.5	Pass
20	-24	-0.013	±2.5	Pass
30	-25	-0.013	±2.5	Pass
40	-30	-0.016	±2.5	Pass
50	-27	-0.014	±2.5	Pass

Model Number	KINZO			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 3: WCDMA Band II Link			
Date of Test	09/29/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	15	0.008	±2.5	Pass
-20	12	0.006	±2.5	Pass
-10	14	0.007	±2.5	Pass
0	15	0.008	±2.5	Pass
10	13	0.007	±2.5	Pass
20	16	0.009	±2.5	Pass
30	15	0.008	±2.5	Pass
40	15	0.008	±2.5	Pass
50	20	0.011	±2.5	Pass

Model Number	KINZO			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 4: WCDMA Band V Link			
Date of Test	09/29/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	9	0.011	±2.5	Pass
-20	9	0.011	±2.5	Pass
-10	9	0.011	±2.5	Pass
0	8	0.010	±2.5	Pass
10	11	0.013	±2.5	Pass
20	9	0.011	±2.5	Pass
30	10	0.012	±2.5	Pass
40	11	0.013	±2.5	Pass
50	9	0.011	±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.

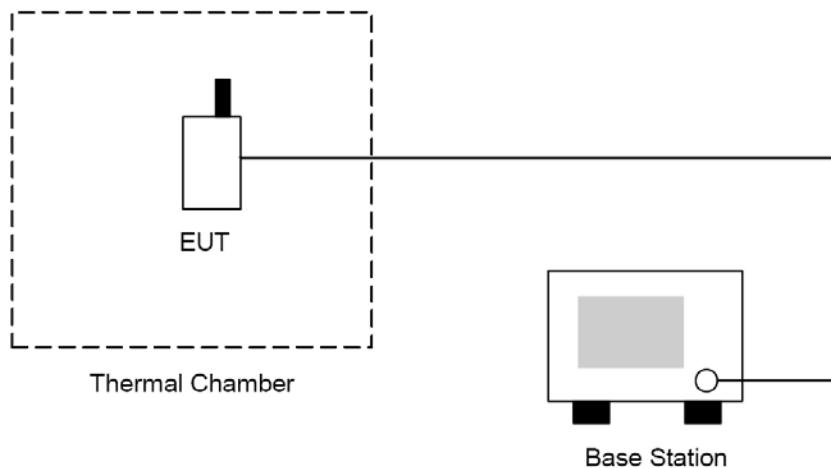
8.2. Test Instruments

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	08/24/2011	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

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

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

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	KINZO				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	09/29/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	-8	-0.010	± 2.5	Pass
Normal	3.70	7	0.008	± 2.5	Pass
Battery cut-off point	3.40	-8	-0.010	± 2.5	Pass

Model Number	KINZO				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	09/29/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	-20	-0.011	± 2.5	Pass
Normal	3.70	-28	-0.015	± 2.5	Pass
Battery cut-off point	3.40	-26	-0.014	± 2.5	Pass

Model Number	KINZO				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	09/29/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	18	0.010	± 2.5	Pass
Normal	3.70	19	0.010	± 2.5	Pass
Battery cut-off point	3.40	18	0.010	± 2.5	Pass

Model Number	KINZO				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	09/29/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	7	0.008	±2.5	Pass
Normal	3.70	10	0.012	±2.5	Pass
Battery cut-off point	3.40	10	0.012	±2.5	Pass