



A Test Lab Techno Corp.

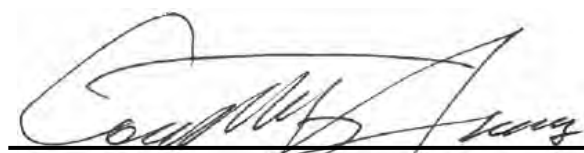
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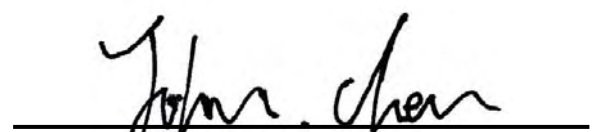
P22 & P24 Test Report



Test Report No.	: 0802FR16
Applicant	: Inventec Corporation Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan
Manufacturer	: Inventec Corporation
Model Name	: PDA PHONE
Trade Mark	: velocitymobile
Model Number	: Velocity 103
FCC ID	: DGIBC0312AAA000
Tx Frequency Range	: 824.2 - 848.8MHz (GSM 850) 1850.2 - 1909.8MHz (PCS 1900)
Dates of Test	: Apr. 24 ~ May. 08, 2008
Test Specification	: 47 CFR Part 22H, 24E & and 24, ANSI/TIA-603-C-2004
Location of Test Lab.	: Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full.


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Measurement Center Manager


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1. General Information

Applicant :

Inventec Corporation

Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan

Manufacturer	: Inventec Corporation Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan
Product Name	: PDA PHONE
Trade Mark	: velocitymobile
Model Number	: Velocity 103
FCC ID	: DGIBC0312AAA000
TX Frequency	: 824 - 849 MHz (GSM 850) 1850 - 1910 MHz (PCS 1900) 826 - 847 MHz (WCDMA Band V) 1852 - 1908 MHz (WCDMA Band II)
RX Frequency	: 869 - 894 MHz (GSM 850) 1930 - 1990 MHz (PCS 1900) 871 - 892 MHz (WCDMA Band V) 1932 - 1988 MHz (WCDMA Band II)
Antenna Type	: Internal antenna
Maximum Output Power to Antenna (Conducted)	: 32.20 dBm (GSM 850) 28.60 dBm (PCS 1900) 22.05 dBm (WCDMA Band V) 23.77 dBm (WCDMA Band II)
Max. ERP/EIRP Power	: 0.750 W / 28.75 dBm ERP (GSM 850) 1.254 W / 30.98 dBm EIRP (PCS 1900) 0.083 W / 19.17 dBm ERP (WCDMA Band V) 0.481 W / 26.82 dBm EIRP (WCDMA Band II)
Type of Emission	: GSM 850 : 245KGXW PCS 1900 : 245KGXW WCDMA Band V : 4M17F9W WCDMA Band II : 4M19F9W
Power Rating (DC , Voltage and Current of RF element or PA)	: 3.7V / 1.41 A
Digital Modulation Emission	: GMSK(GSM 850 / PCS1900) QPSK(WCDMA Band V / WCDMA Band II)
Power Supply Type	: AC Adapter
DC Power Cord	: Shielded USB Cable, 1.5 meter, Cigarette Plug
Adapter	: PI ELECTRONICS / AD 7112B
DUT Stage	: Production Unit



2. Test Configuration of Equipment under Test

2.1 Test Manner

1. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
2. During all testing, EUT is in link mode with base station emulator at maximum power level. (PCL=5 for GSM 850 or PCL=0 for PCS 1900)
3. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for PCS 1900.

2.2 Test Mode

Preliminary tests were performed in different data mode to find the worst case. The data mode shown in the table below is the worst-case rate (Blue color). Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Bands	Channel	Frequency		Conducted Power
		(MHz)		(dBm)
GSM 850	128	Low	824.20	32.20
	190	Mid	836.40	32.00
	251	High	848.80	31.80
GSM 850+GPRS	128	Low	824.20	31.20
	190	Mid	836.40	31.60
	251	High	848.80	31.00
GSM 850+EDGE	128	Low	824.20	26.00
	190	Mid	836.40	26.10
	251	High	848.80	26.00

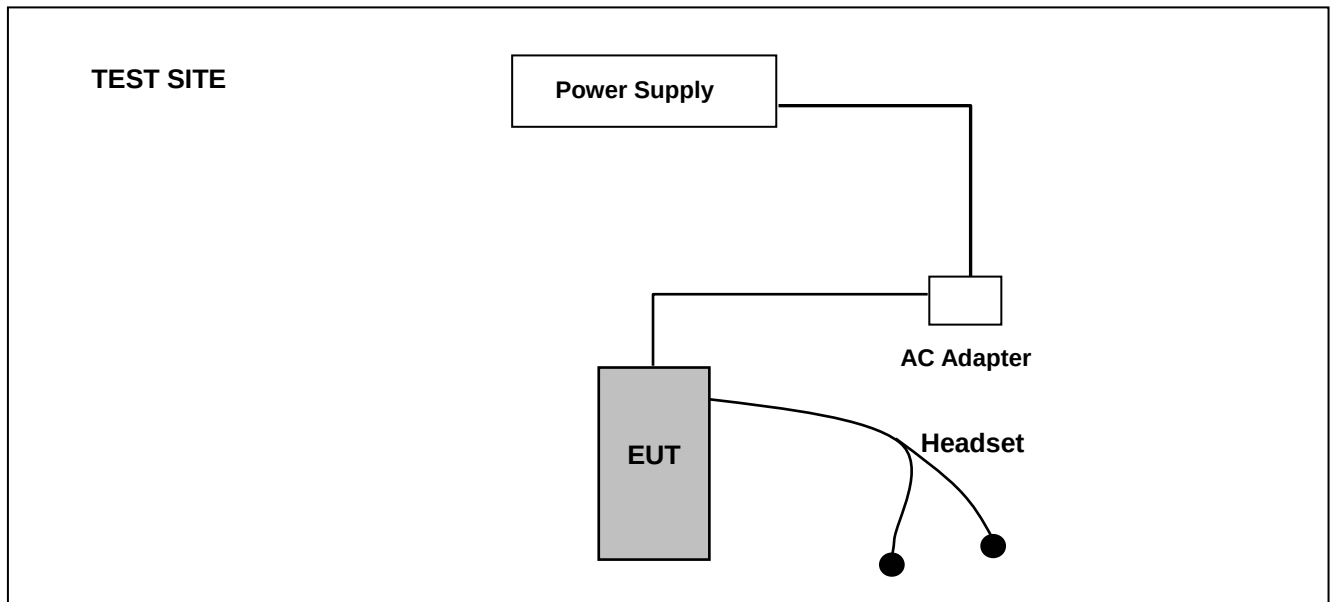


Bands	Channel	Frequency		Conducted Power
		(MHz)		(dBm)
PCS1900	512	Low	1850.20	28.60
	661	Mid	1880.00	28.50
	810	High	1909.80	28.40
PCS1900+GPRS	512	Low	1850.20	28.40
	661	Mid	1880.00	28.10
	810	High	1909.80	28.20
PCS1900+EDGE	512	Low	1850.20	25.50
	661	Mid	1880.00	25.50
	810	High	1909.80	25.60

Bands	Channel	Frequency		Conducted Power
		(MHz)		(dBm)
WCDMA Band V	4132	Low	826.40	22.05
	4182	Mid	836.40	21.81
	4233	High	846.40	21.46
WCDMA Band V + HSDPA	4132	Low	826.40	19.77
	4182	Mid	836.40	19.45
	4233	High	846.40	19.08

Bands	Channel	Frequency		Conducted Power
		(MHz)		(dBm)
WCDMA Band II	9262	Low	1852.40	23.77
	9400	Mid	1880.00	22.87
	9538	High	1907.60	22.48
WCDMA Band II+ HSDPA	9262	Low	1852.40	21.78
	9400	Mid	1880.00	22.87
	9538	High	1907.60	22.48

2.3 Connection Diagram of Test System



During EMI testing (LINK) the EUT (PDA PHONE)'s Power port was connected to AC Adapter. EUT (PDA PHONE)'s ear port connected to headset.

2.4 Ancillary Equipment List

1. Base Station(R&S) CMU200 106656
2. Power Supply (GW) 12P3A H281001



3. General Information of Test Site

Test Site Location: No. 140 -1, Changan Street, Bade City, Taoyuan County, Taiwan R.O.C.
TEL: 886-3-271-0188 FAX: 886-3-271-0190

Registration Number : 854525
Designation Number : TW1330

The chamber meets the characteristics of ANSI C63.4-2006. This site is on file with the FCC.

3.1 Test Voltage

DC 3.7V / 1.41 A (Battery)

3.2 Test in Compliance with

47 CFR Part 22H, 24E and Part 2. and 24, ANSI/TIA-603-C-2004

3.3 Frequency Range Investigated

1. Radiation: from 30 MHz to 9000 MHz for GSM 850.
2. Radiation: from 30 MHz to 19000 MHz for PCS 1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	DESCRIPTION OF TEST	Result	Section
§ 2.1046	RF Output Power	Passed	4.2
§ 22.913 § 24.232	ERP / EIRP	Passed	4.3
§ 2.1049 § 22.917 § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§ 2.1051	Conducted Emission	Passed	4.5
§ 2.1053	Field Strength of Spurious Radiation	Passed	4.6
§ 2.1055 § 22.355 § 24.235	Frequency Stability vs. Temperature	Passed	4.7
§ 2.1055 § 22.355 § 24.235	Frequency Stability vs. Voltage	Passed	4.8
§ 15.207	AC Power Conducted Emissions Requirements	Passed	4.9

4.2 RF Output Power

4.2.1 Measurement Instruments :

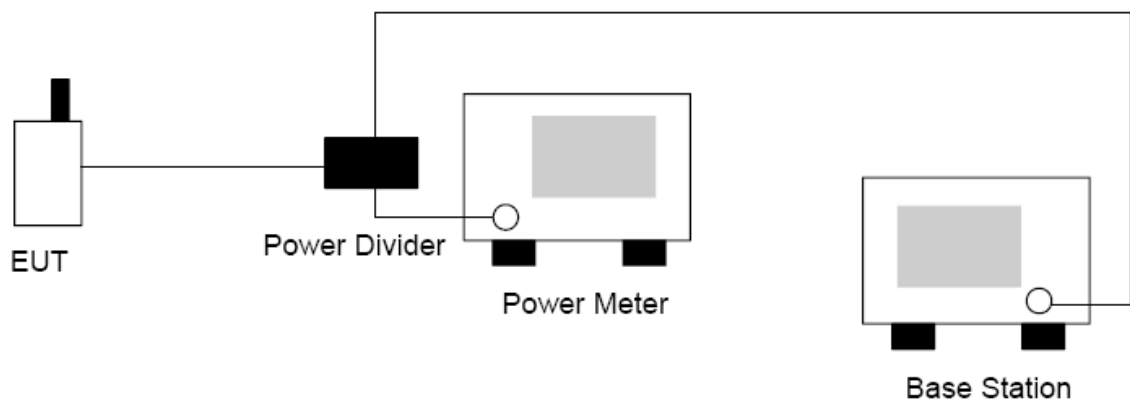
As described in chapter 5 of this test report.

4.2.2 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.

4.2.3 Test Setup Layout :





4.2.4 Test Result :

Bands	Channel	Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)
GSM 850	128	Low	824.2	32.20	1.660
	190	Mid	836.4	32.00	1.585
	251	High	848.8	31.80	1.514

Bands	Channel	Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)
PCS 1900	512	Low	1850.2	28.60	0.724
	661	Mid	1880.0	28.50	0.708
	810	High	1909.8	28.40	0.692

Bands	Channel	Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)
WCDMA Band V	4132	Low	826.4	22.05	0.160
	4182	Mid	836.4	21.81	0.152
	4233	High	846.4	21.46	0.140

Bands	Channel	Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)
WCDMA Band II	9262	Low	1852.4	23.77	0.238
	9400	Mid	1880.0	22.87	0.194
	9538	High	1907.6	22.48	0.177



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-B-2002.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

The phone was tested in an anechoic chamber with a 3-axis position system that permits taking complete spherical scans of the EUT's 3-axis radiation patterns. For all tests, the phone was supported in a free space type environment, vertically oriented in the chamber. Tests were done for GSM 850 three frequencies (824.2, 836.6 and 848.8 MHz) and GSM 1900 three frequencies (1850.2, 1880.00, and 1909.80 MHz).

GSM measurements were made with the phone placed in a call using the CMU200 mobile station test set. The phone was weakly coupled to the test set and configured to transmit in full data rate mode.

The radiated power was measured using ETS-LINDGREN OTA Chamber in "Peak" mode. From these measurements, the software calculates the angle at which maximum radiated power occurs for each case, and the radiated power at this angle was extracted from the data.

Each individual data point in a radiated power or sensitivity measurement is referred to as the effective isotropic radiated power or effective isotropic sensitivity. That is, the desired information is how the measured quantity relates to the same quantity from an isotropic radiator. Thus, the reference measurement must relate the power received or transmitted at the EUT test equipment (spectrum analyzer or communication tester) back to the power transmitted or received at a theoretical isotropic radiator. The total path loss then, is just the difference in dB between the power transmitted or received at the isotropic radiator and that seen at the test equipment (see follow Figure 1).

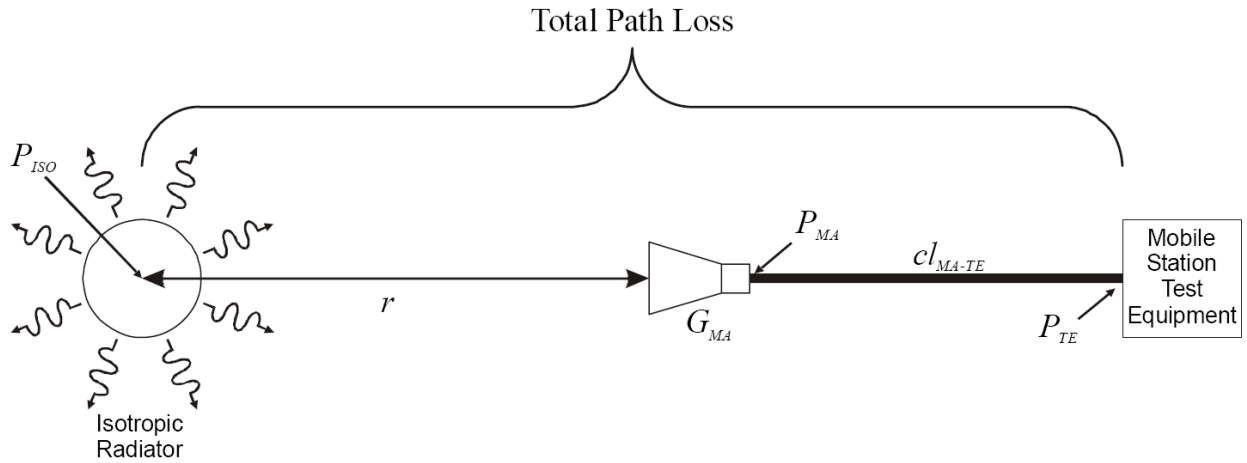


Figure 1. THEORETICAL CASE FOR DETERMINING PATH LOSS

In equation form, this becomes:

Equation 1

$$PL = P_{ISO} - P_{TE},$$

where PL is the total path loss, P_{ISO} is the power radiated by the theoretical isotropic radiator, and P_{TE} is the power received at the test equipment port. As can be seen in Figure 1, this quantity includes the range path loss due to the range length r , the gain of the measurement antenna, and any loss terms associated with the cabling, connections, amplifiers, splitters, etc. between the measurement antenna and the test equipment port.

Figure 2 shows a typical real world configuration for measuring the path loss. In this case, a reference antenna with known gain is used in place of the theoretical isotropic source. The path loss may then be determined from the power into the reference antenna by adding the gain of the reference antenna.

That is:

Equation 2

$$P_{ISO} = P_{RA} + G_{RA},$$

where P_{RA} is the power radiated by reference antenna, and G_{RA} is the gain of the reference antenna, so that:

Equation 3

$$PL = P_{RA} + G_{RA} - P_{TE},$$

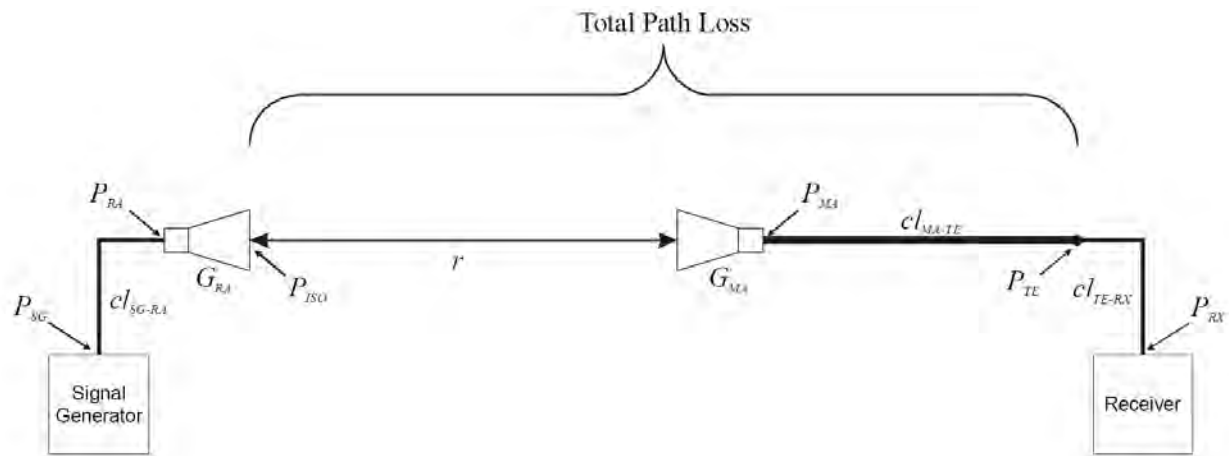


Figure 2. TYPICAL CONFIGURATION FOR MEASURING PATH LOSS

In order to determine P_{RA} , it is necessary to perform a cable reference measurement to remove the effects of the cable loss between signal generator and reference antenna, and between the test equipment port and the receiver. This establishes a reference point at the input to the reference antenna. Figure 3 illustrates the cable reference measurement configuration. Assuming the power level at the signal generator is fixed, it is easy to show that the difference between P_{RA} and P_{TE} in Figure 2 is given by:

Equation 4

$$P_{RA} - P_{TE} = P_{RX}' - P_{RX},$$

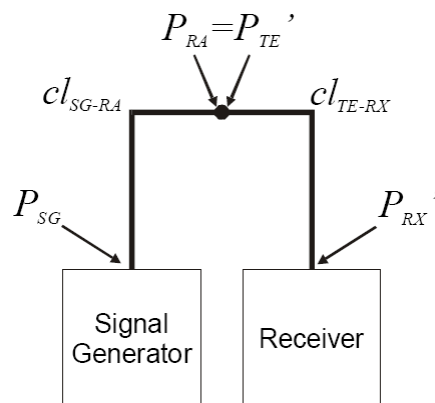


Figure 3. CABLE REFERENCE CALIBRATION CONFIGURATION

Where $P_{RX'}$ is the power measured at the receiver during the cable reference test, and P_{RX} is the power measured at the receiver during the range path loss measurement in Figure 2. Thus, the path loss is then just given by:

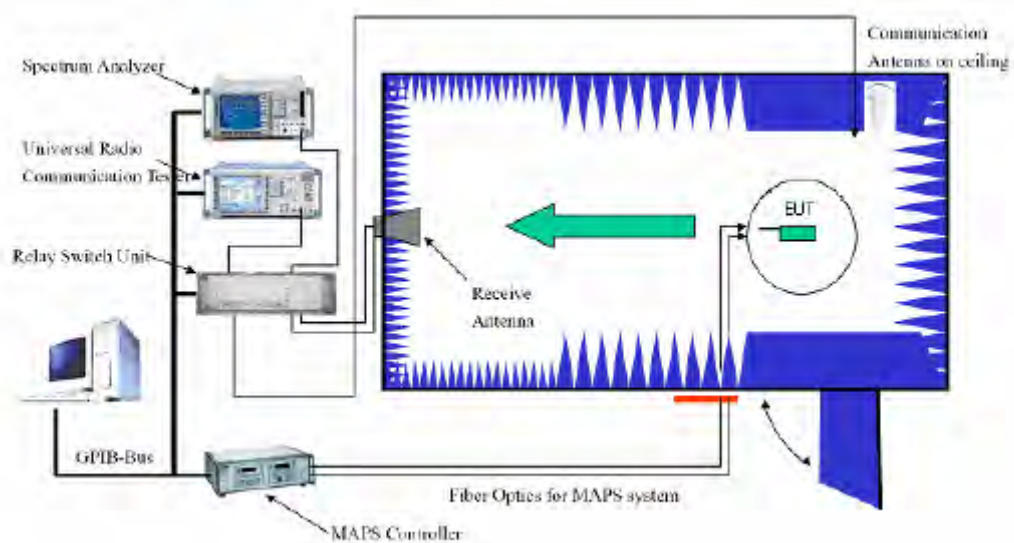
Equation 5

$$PL = G_{RA} + P_{RX'} - P_{RX}$$

$$EIRP = P_t + P_L$$

P_t = Often referred to as antenna output power

4.3.3 Test Setup Layout of ERP/EIRP





4.3.4 Test Result

GSM 850 Radiated Power ERP				
Maximum Output Power				
Frequency (MHz)	Read Level (dBm)	Correction factor (dBm)	ERP (dBm)	ERP (W)
824.20	78.25	-49.50	28.75	0.750
836.40	78.45	-49.70	28.75	0.750
848.80	77.37	-49.70	27.67	0.585

PCS 1900 Radiated Power EIRP				
Maximum Output Power				
Frequency (MHz)	Read Level (dBm)	Correction factor (dBm)	EIRP (dBm)	EIRP (W)
1850.20	86.38	-55.40	30.98	1.254
1880.00	85.80	-55.60	30.20	1.048
1909.80	84.63	-55.70	28.93	0.781

WCDMA Band V Radiated Power ERP				
Maximum Output Power				
Frequency (MHz)	Read Level (dBm)	Correction factor (dBm)	ERP (dBm)	ERP (W)
826.40	68.12	-49.50	18.62	0.073
836.40	66.35	-49.70	16.65	0.046
846.60	68.87	-49.70	19.17	0.083

WCDMA Band II Radiated Power EIRP				
Maximum Output Power				
Frequency (MHz)	Read Level (dBm)	Correction factor (dBm)	EIRP (dBm)	EIRP (W)
1852.40	82.22	-55.40	26.82	0.481
1880.00	81.62	-55.60	26.02	0.400
1907.60	80.34	-55.70	24.64	0.291

Note: ERP = Read Level + Correction factor

4.4 Occupied Bandwidth and Band Edge Measurement

4.4.1 Measurement Instruments

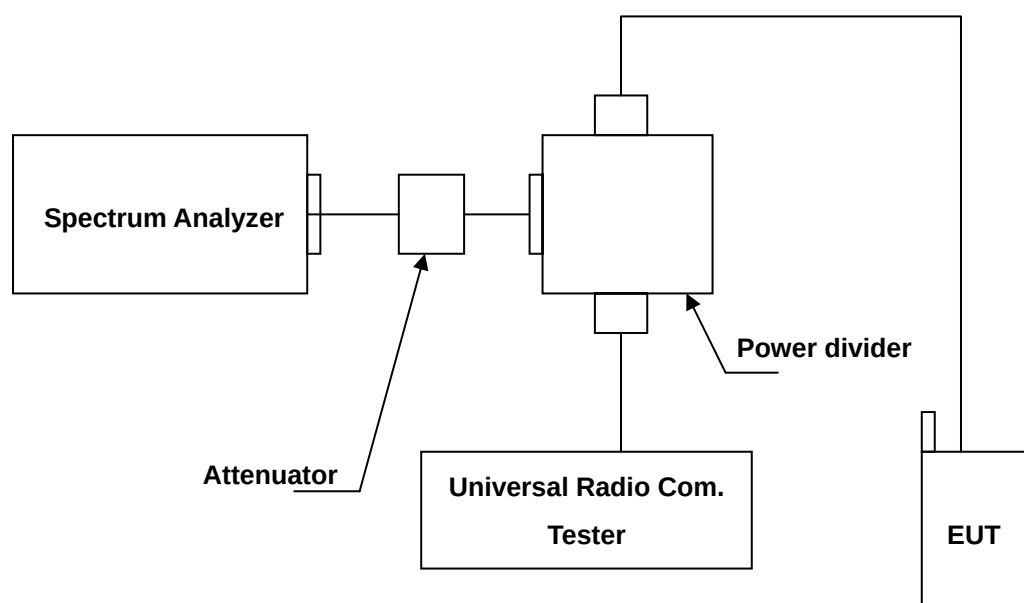
As described in chapter 5 of this test report.

4.4.2 Test Procedure

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

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

4.4.3 Test Setup Layout





4.4.4 Occupied Bandwidth Test Result

GSM 850		
Channel	Frequency (MHz)	Output Power - 26 dBc Bandwidth (kHz)
128	824.2	245.2644
190	836.6	243.9225
251	848.8	244.8347
RB:3KHz , VBW:10KHz		

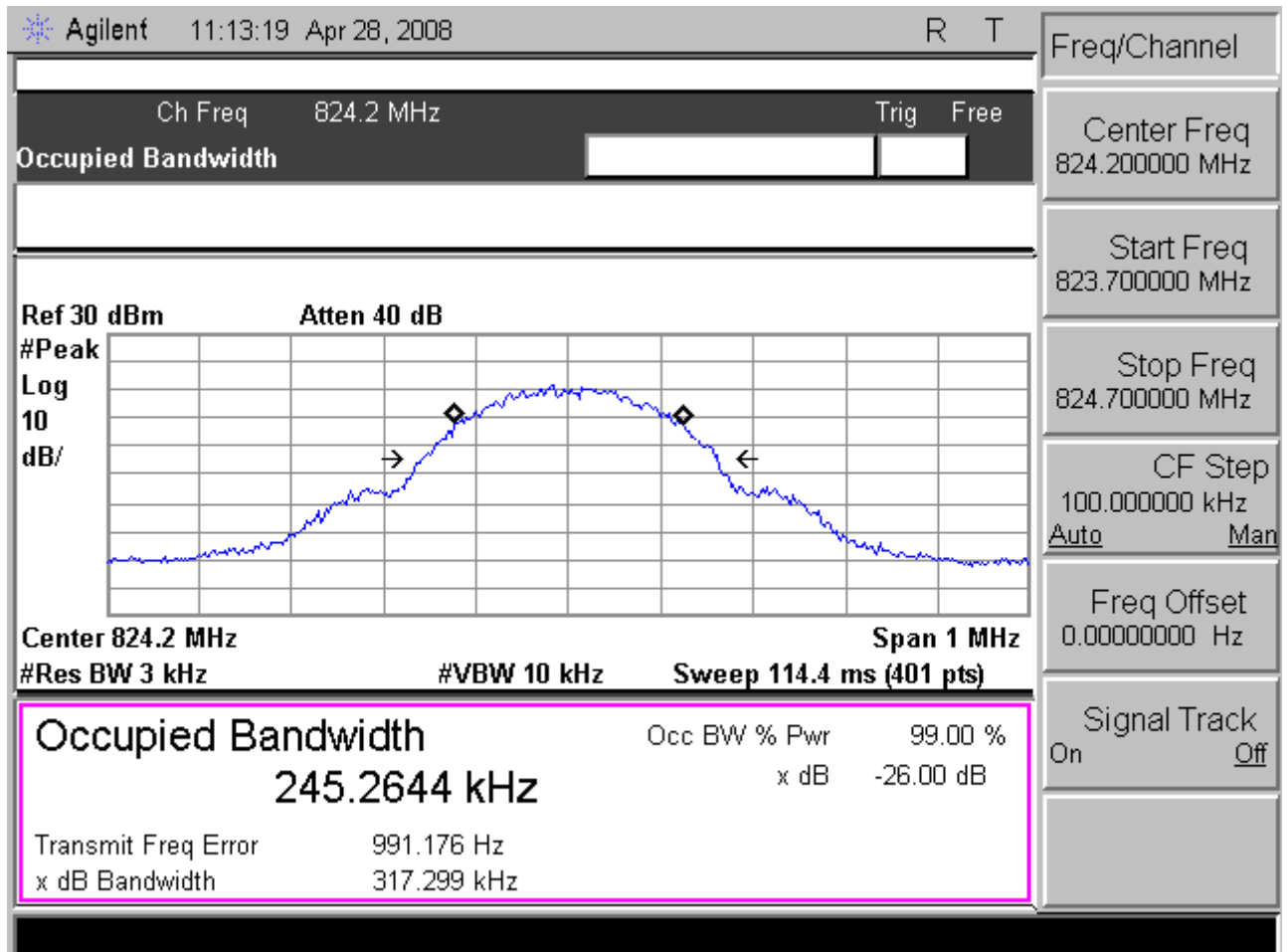
PCS 1900		
Channel	Frequency (MHz)	Output Power - 26 dBc Bandwidth (kHz)
512	1850.2	244.3838
661	1880.0	245.4533
810	1909.8	245.0011
RB:3KHz , VBW:10KHz		

WCDMA Band V		
Channel	Frequency (MHz)	Output Power - 26 dBc Bandwidth (MHz)
4132	826.4	4.1596
4182	836.4	4.1631
4233	846.6	4.1729
RB:30KHz , VBW:300KHz		

WCDMA Band II		
Channel	Frequency (MHz)	Output Power - 26 dBc Bandwidth (MHz)
9262	1852.4	4.1826
9400	1880.0	4.1927
9538	1907.6	4.1801
RB:30KHz , VBW:300KHz		

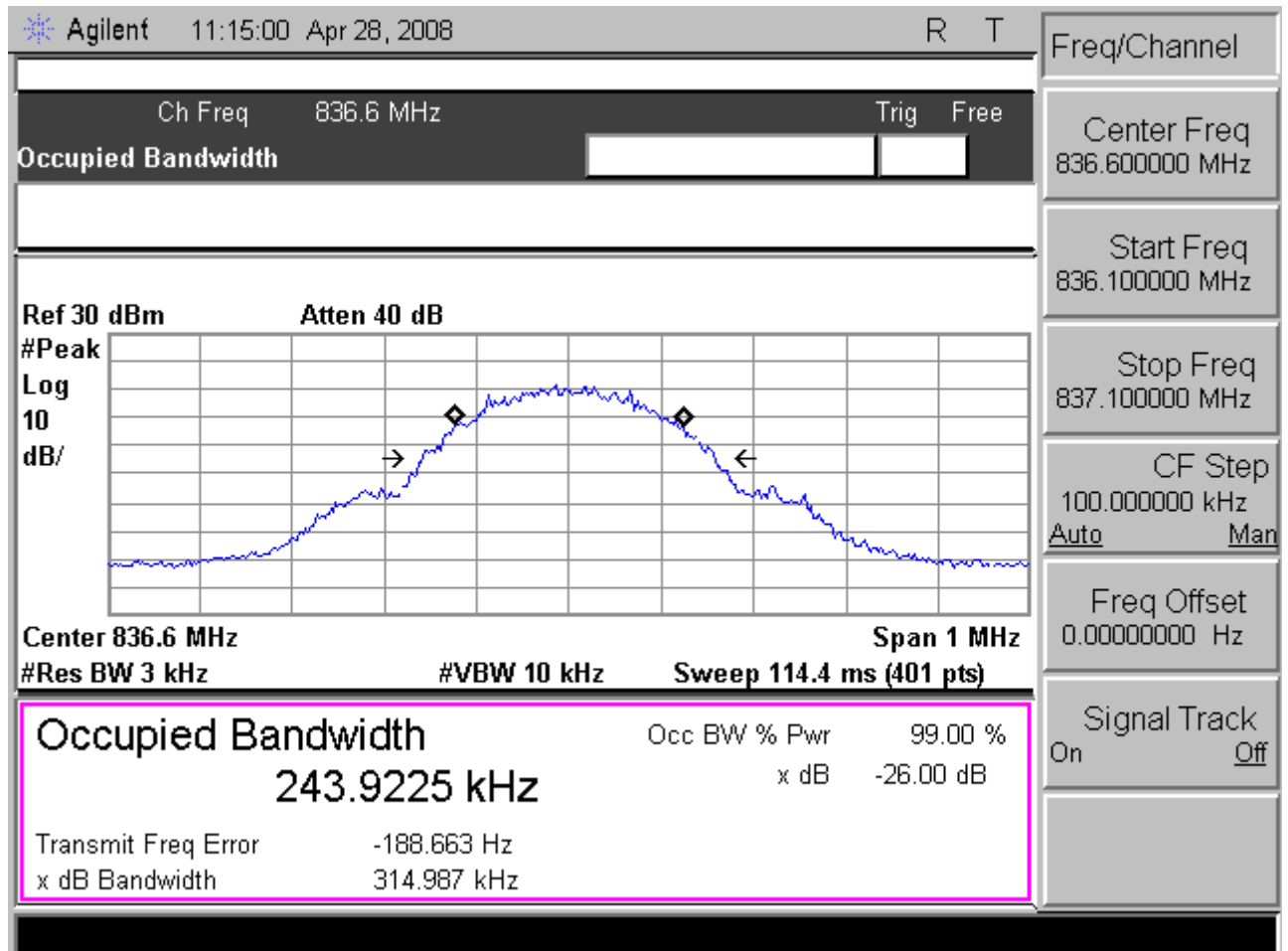


Test Mode: GSM 850 CH128 99% Occupied Bandwidth



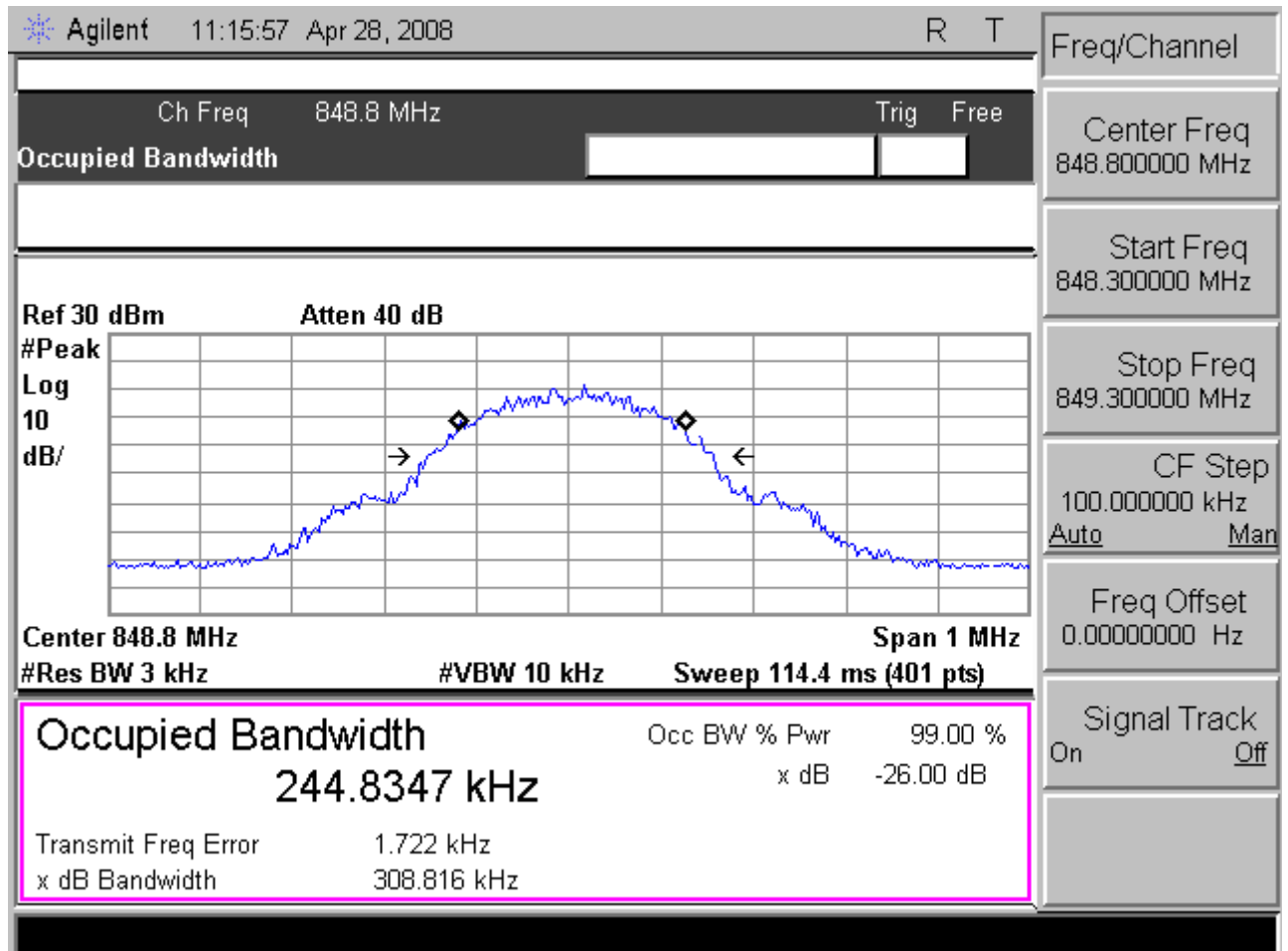


Test Mode: GSM 850 CH190 99% Occupied Bandwidth



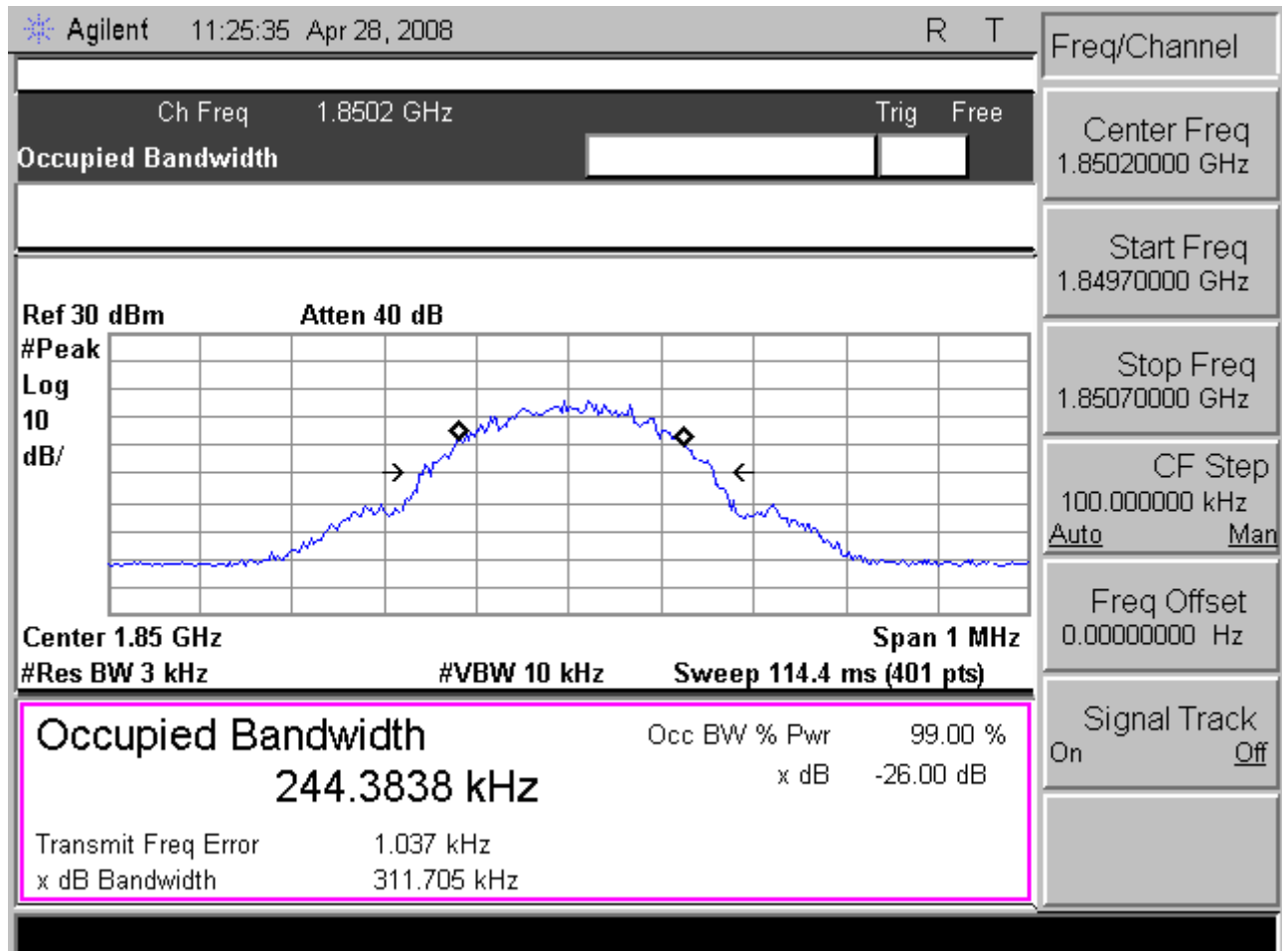


Test Mode: GSM 850 CH251 99% Occupied Bandwidth



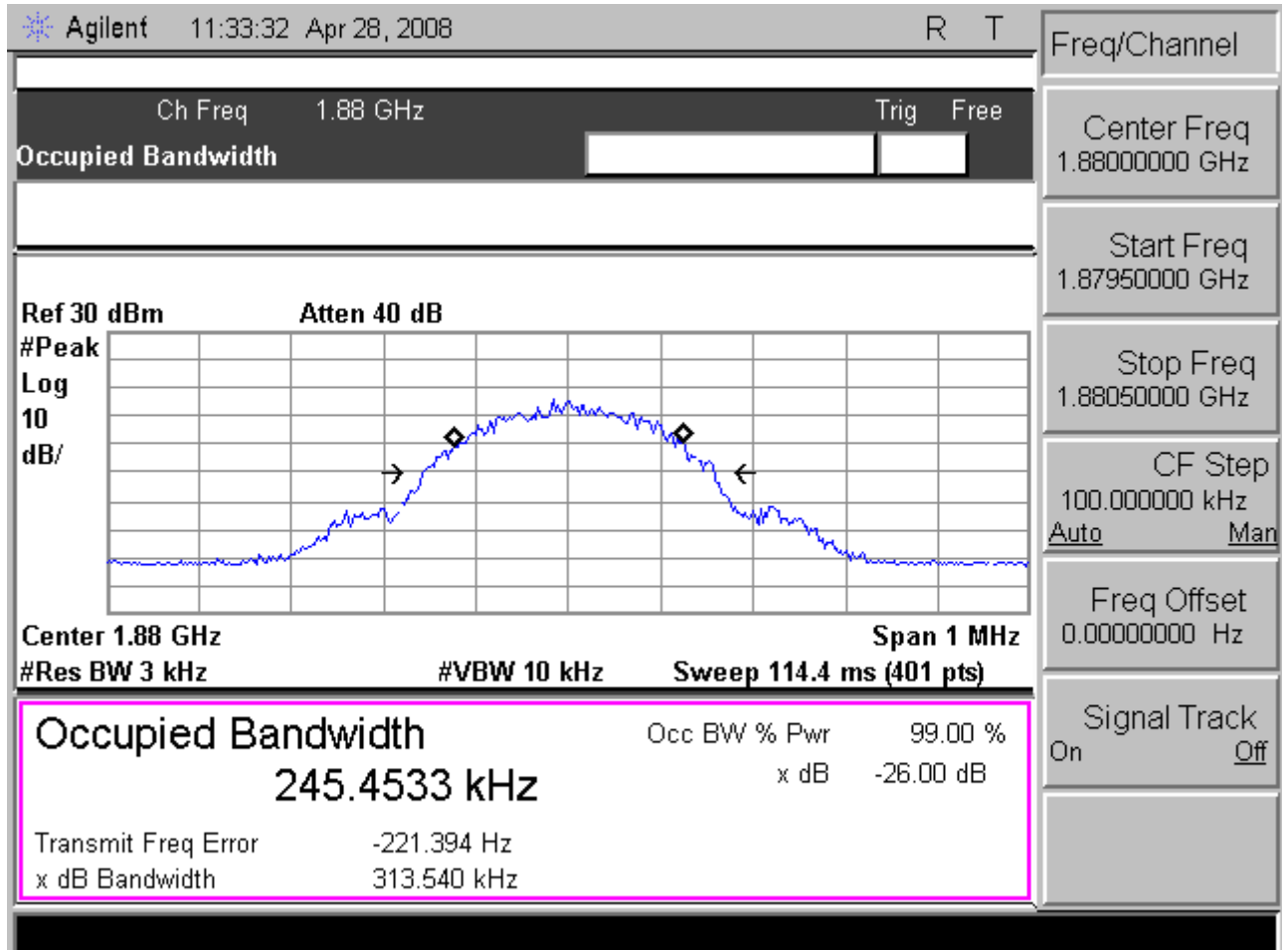


Test Mode: PCS 1900 CH512 99% Occupied Bandwidth



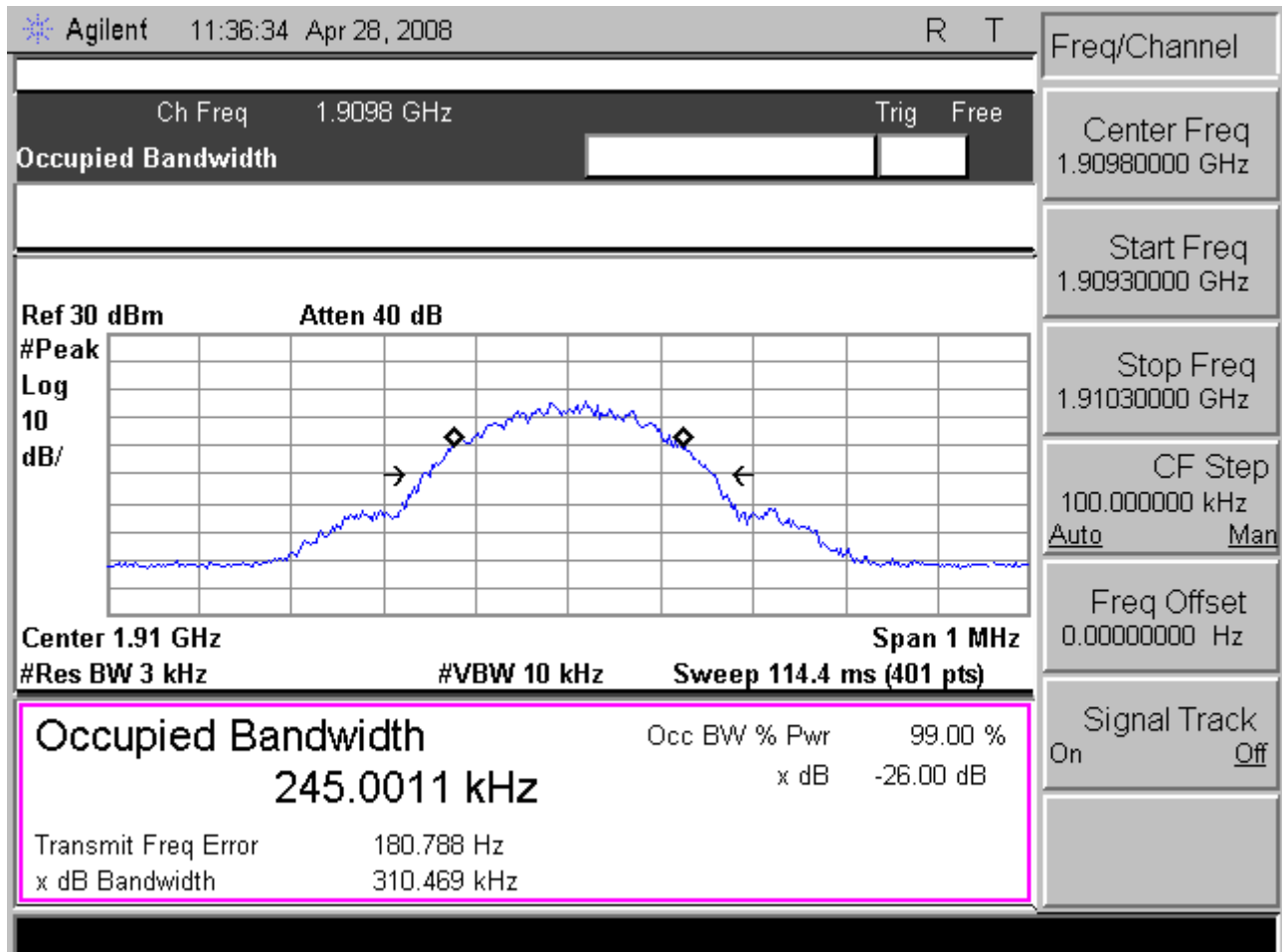


Test Mode: PCS 1900 CH661 99% Occupied Bandwidth



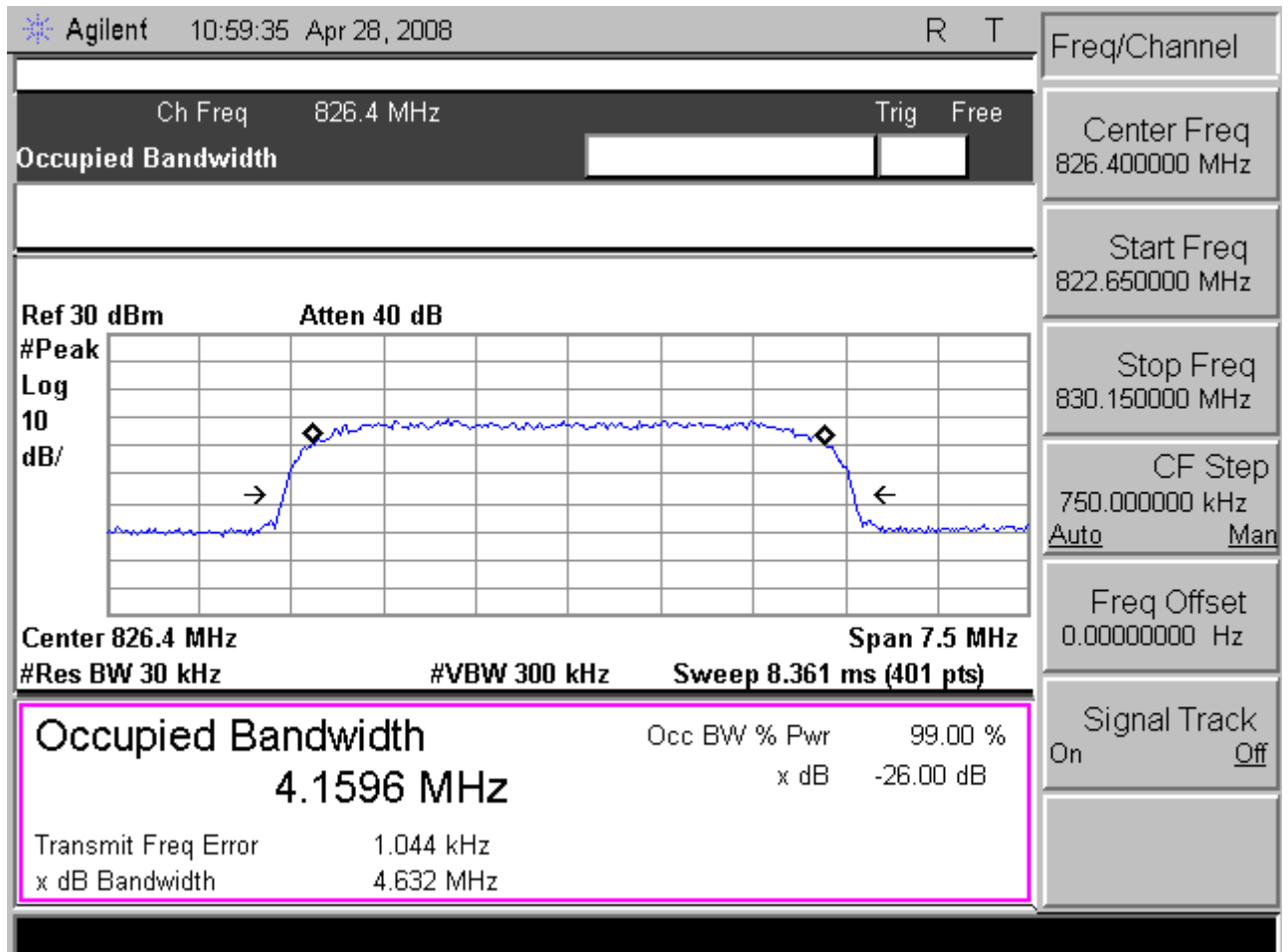


Test Mode: PCS 1900 CH810 99% Occupied Bandwidth



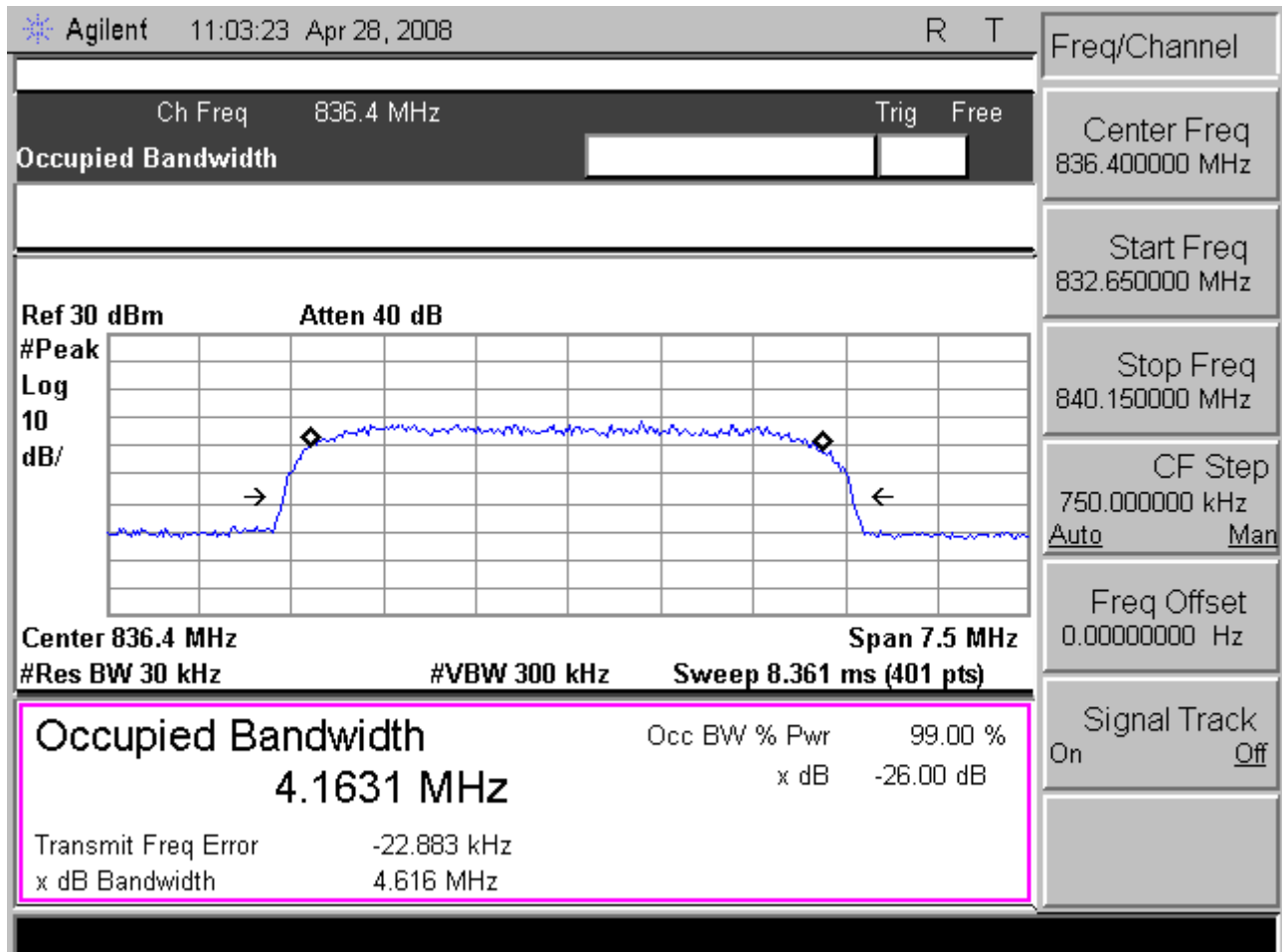


Test Mode: WCDMA Band V CH4132 99% Occupied Bandwidth



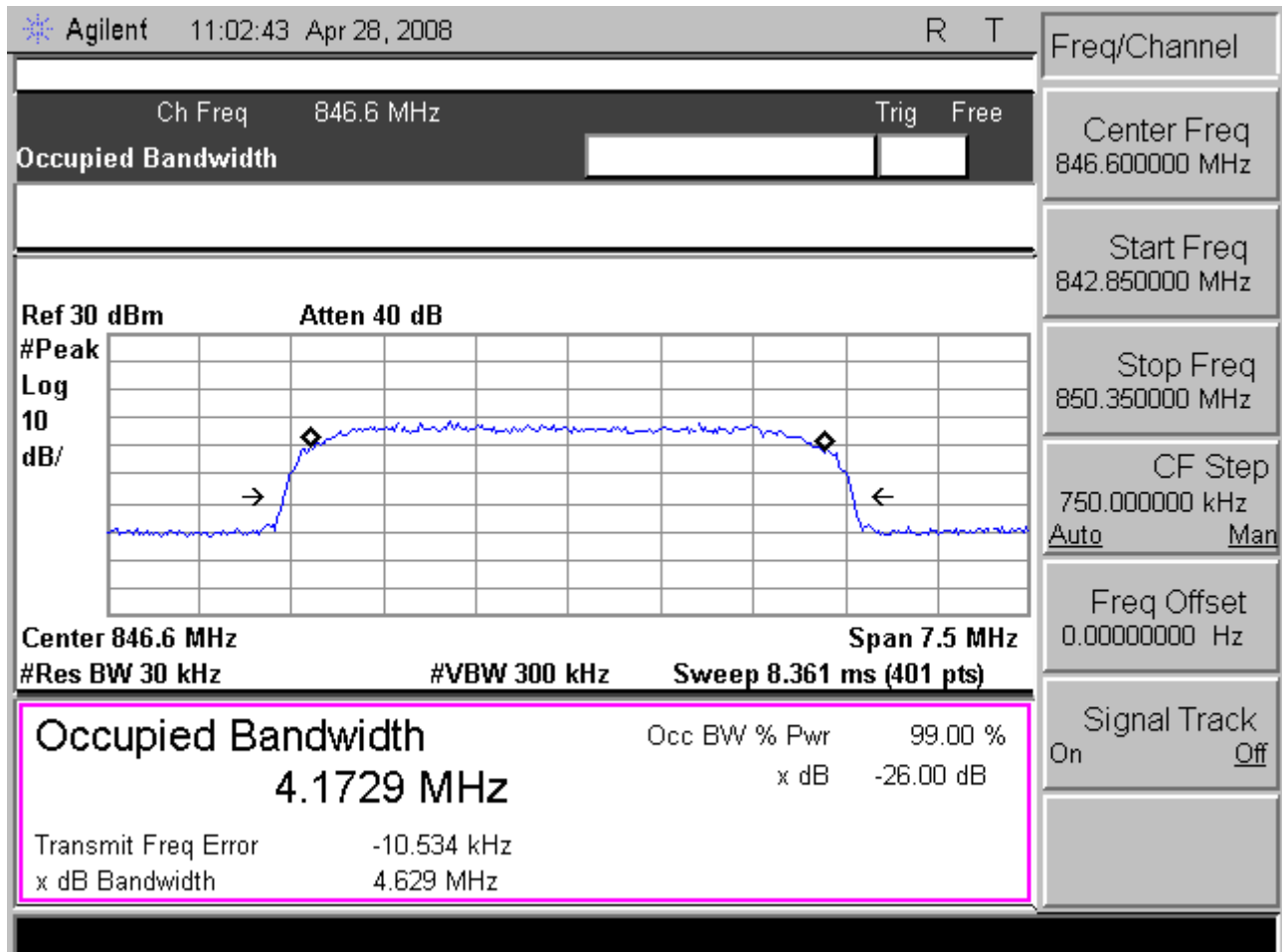


Test Mode: WCDMA Band V CH4182 99% Occupied Bandwidth



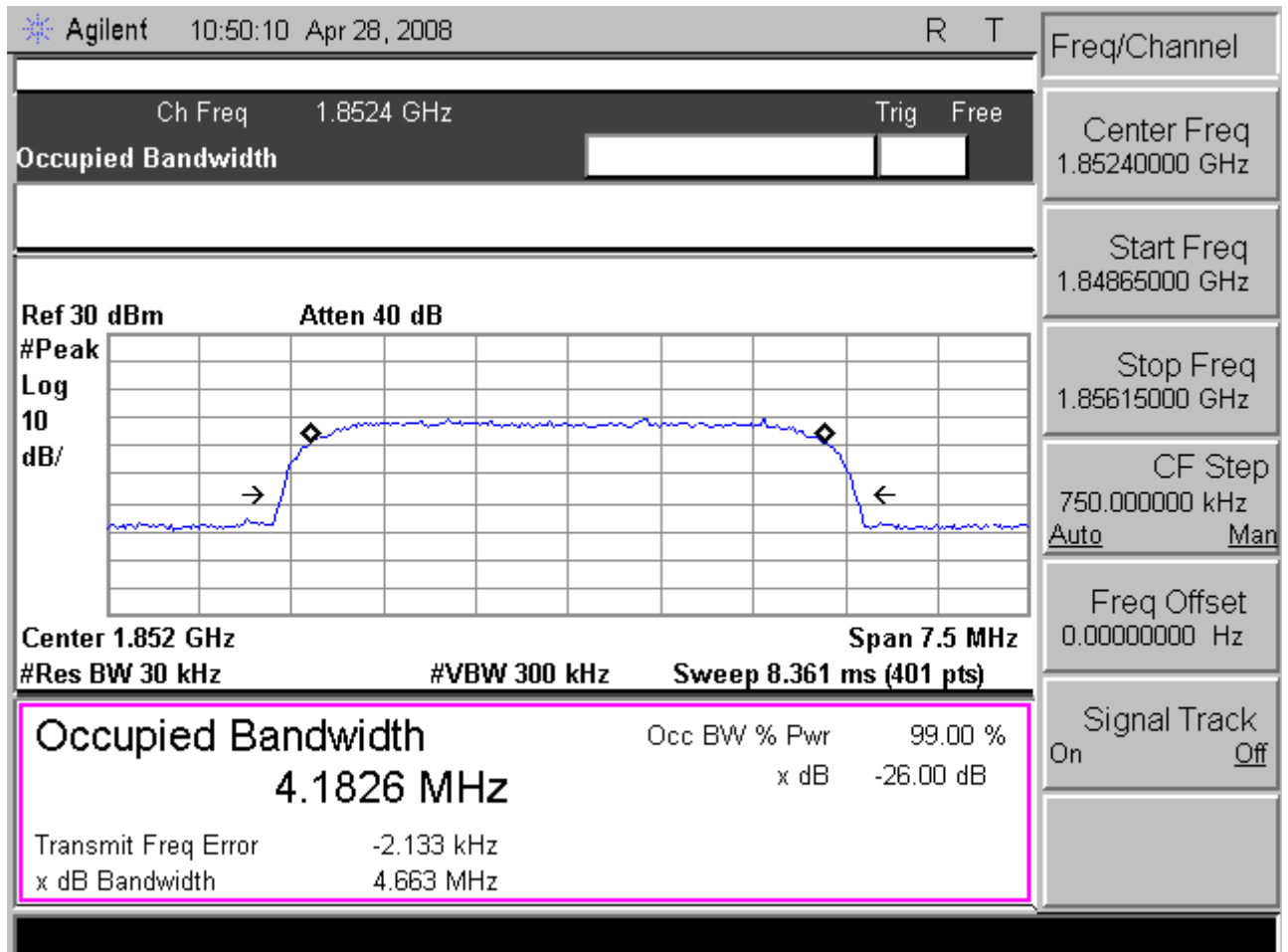


Test Mode: WCDMA Band V CH4233 99% Occupied Bandwidth



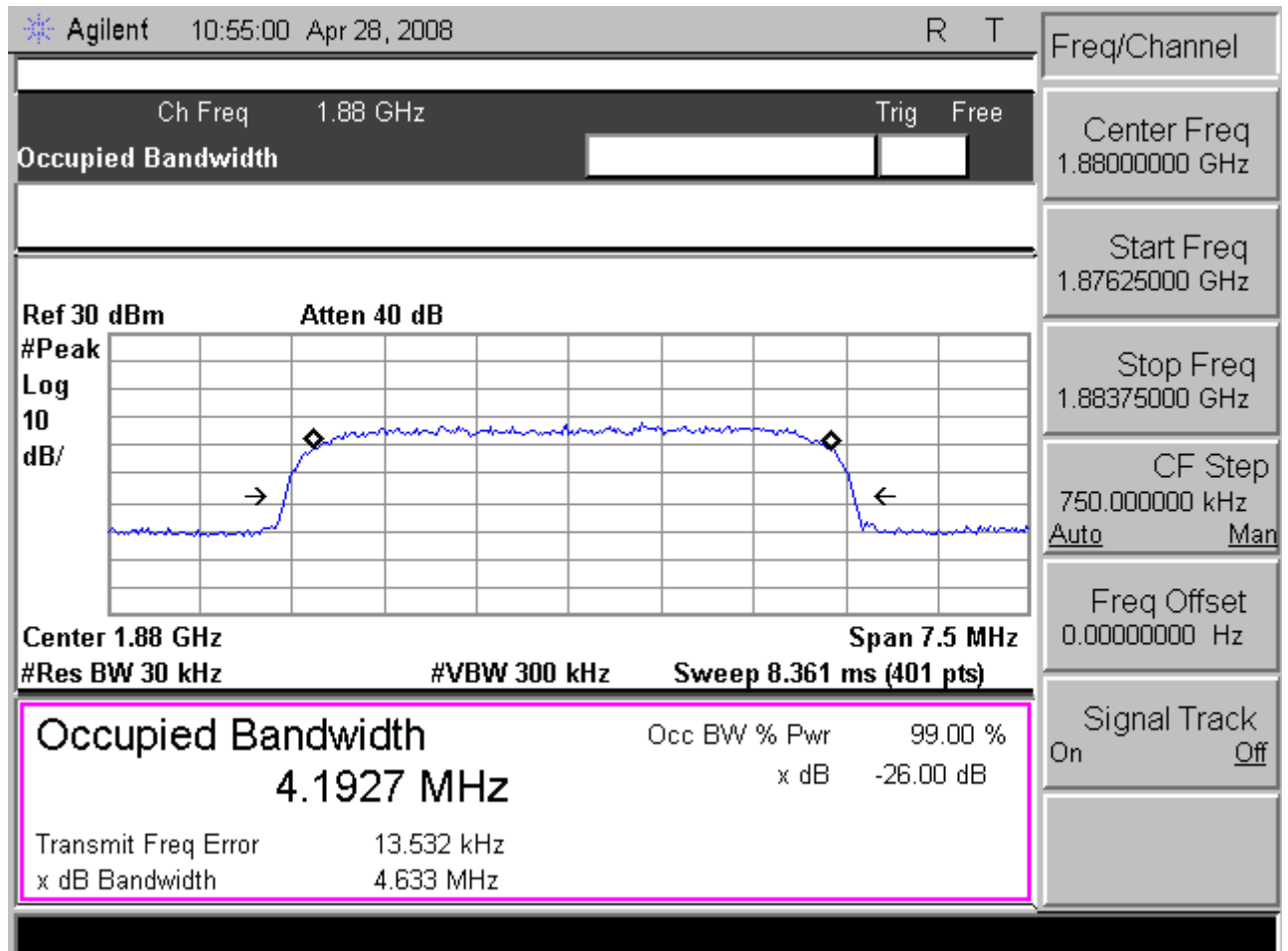


Test Mode: WCDMA Band II CH9262 99% Occupied Bandwidth



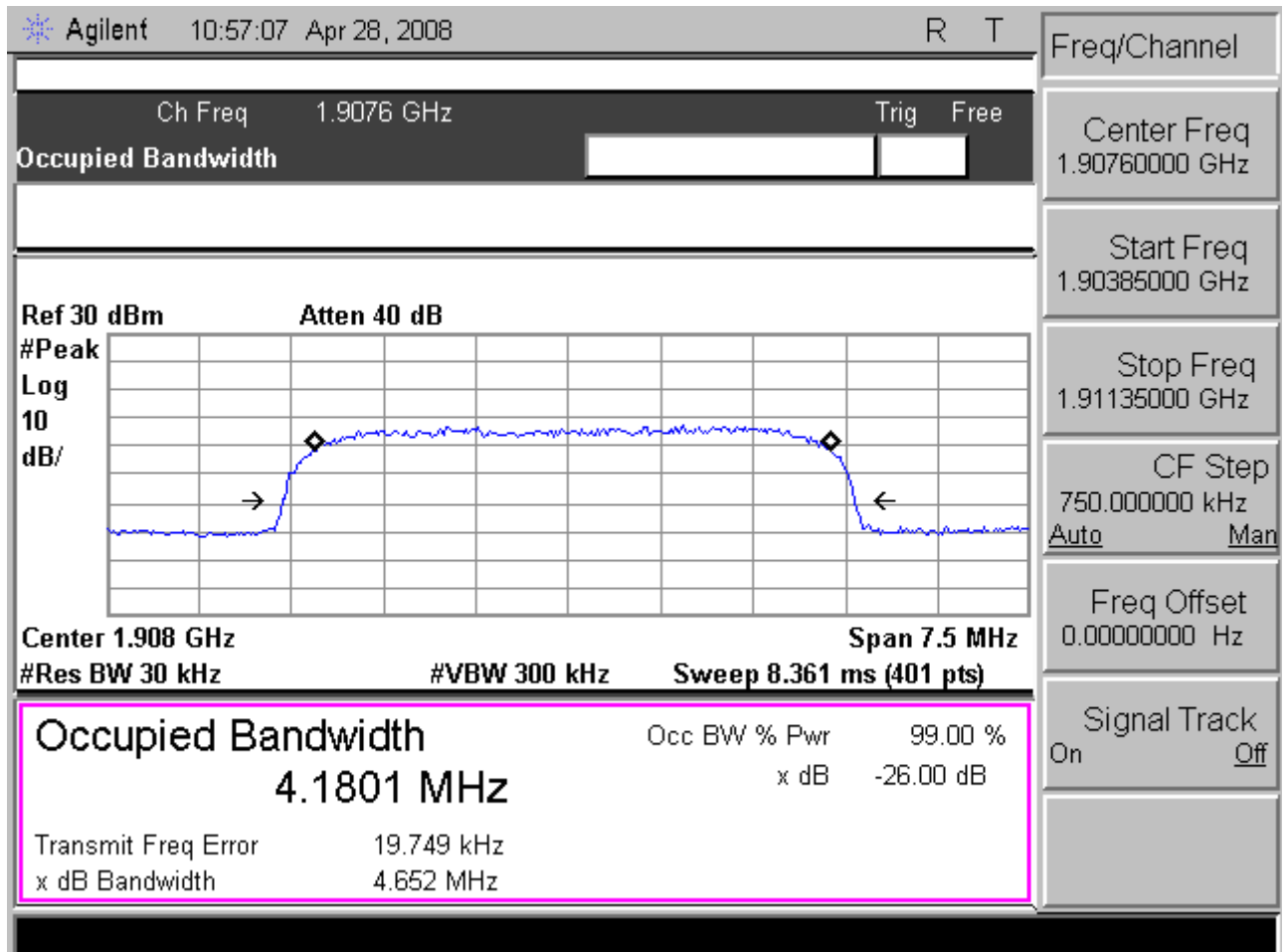


Test Mode: WCDMA Band II CH9400 99% Occupied Bandwidth





Test Mode: WCDMA Band II CH9538 99% Occupied Bandwidth





4.4.5 Band Edge Test Result

GSM 850				
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)
Lower	128	823.9900	-14.96	-13
Higher	251	849.0175	-15.84	-13

Please refer to next pager of detail testing data.



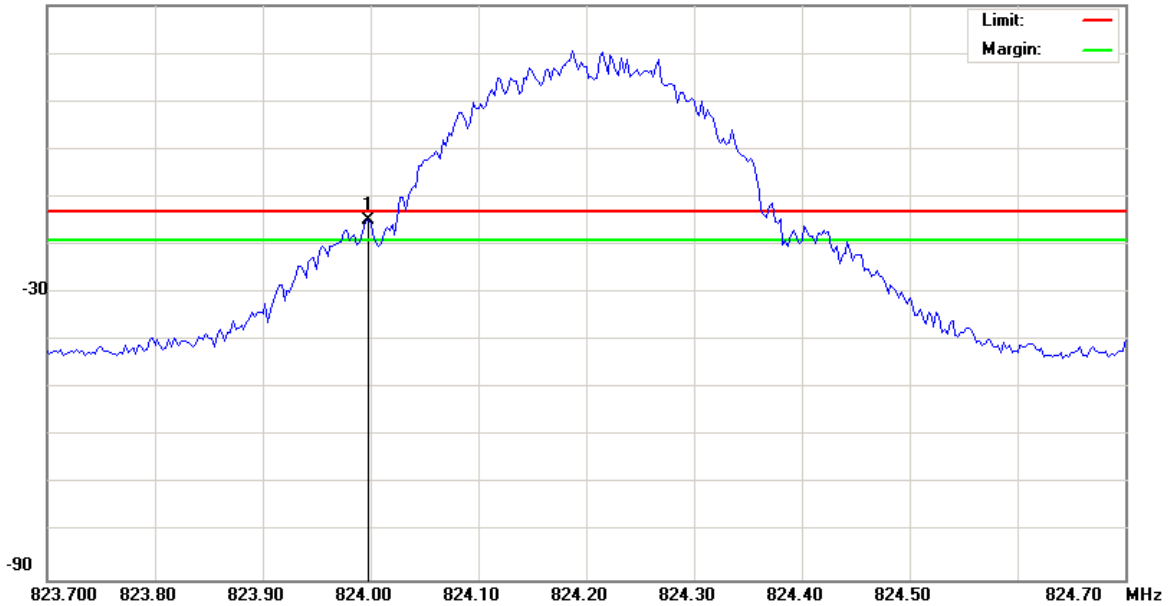
File:Raymond103(GSM850)

Data :#1

Date: 2008/4/28

Time: 下午 04:49:38

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 3 KHz

M/N: Raymond103

VBW: 3 KHz

Sweep Time: 200 ms

Mode:

Note: CH128(824.2MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	823.9975	-28.14	13.18	-14.96	-13.00	-1.96	peak		

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

●Reference Only



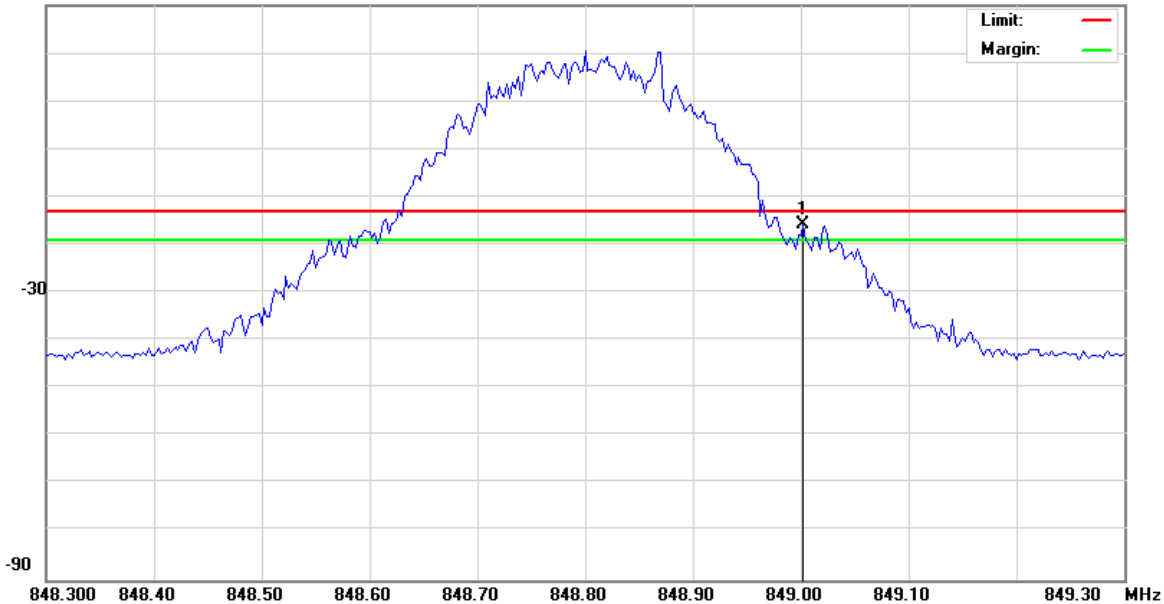
File:Raymond103(GSM850)

Data :#2

Date: 2008/4/28

Time: 下午 05:00:10

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 3 KHz

M/N: Raymond103

VBW: 3 KHz

Sweep Time: 200 ms

Mode:

Note: CH251(848.8MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	849.0025	-29.09	13.25	-15.84	-13.00	-2.84	peak		

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

●Reference Only



PCS 1900				
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)
Lower	512	1849.995	-17.99	-13
Higher	810	1910.015	-18.90	-13

Please refer to next pager of detail testing data.



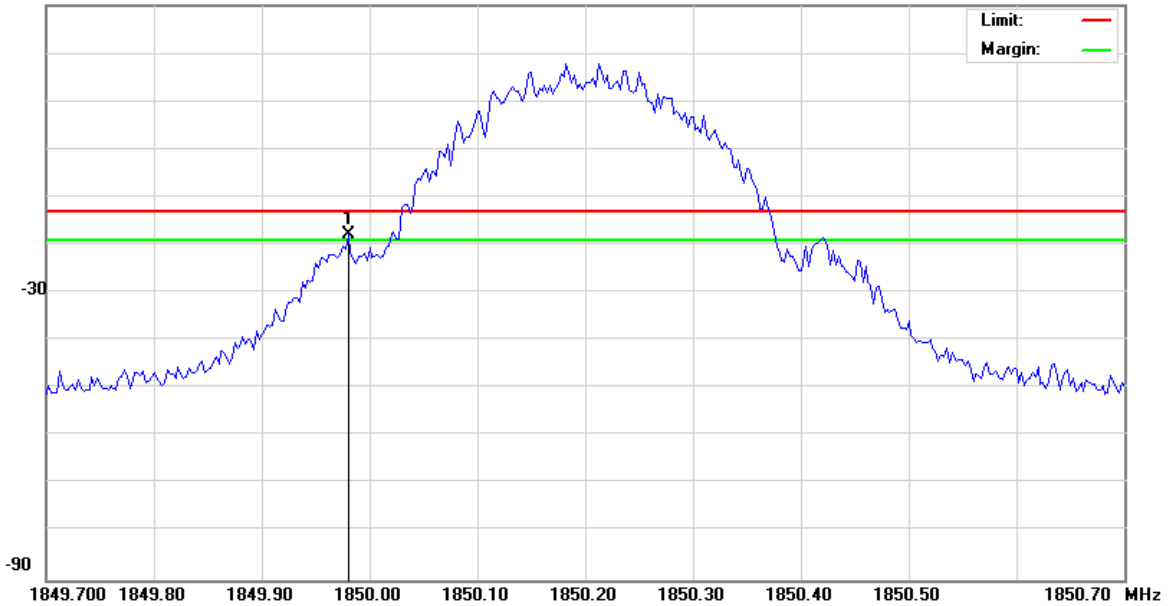
File :Raymond103(PCS1900)

Data :#1

Date: 2008/4/28

Time: 下午 05:23:36

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 3 KHz

M/N: Raymond103

VBW: 3 KHz

Sweep Time: 200 ms

Mode:

Note: CH512(1784.8MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	1849.980	-22.24	4.25	-17.99	-13.00	-4.99	peak		

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

●Reference Only



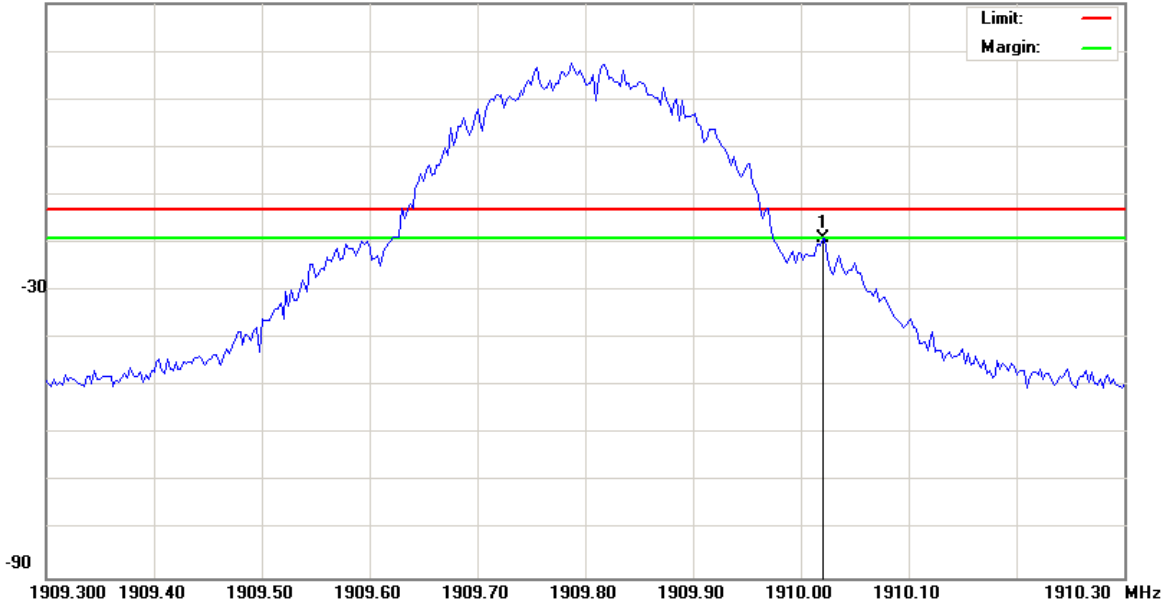
File :Raymond103(PCS1900)

Data :#2

Date: 2008/4/28

Time: 下午 05:26:35

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 3 KHz

M/N: Raymond103

VBW: 3 KHz

Sweep Time: 200 ms

Mode:

Note: CH810(1909.8MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	1910.020	-24.60	5.70	-18.90	-13.00	-5.90	peak		

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

●Reference Only



WCDMA Band V				
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)
Lower	4132	824.000	-19.13	-13
Higher	4233	849.000	-16.96	-13

Please refer to next pager of detail testing data.

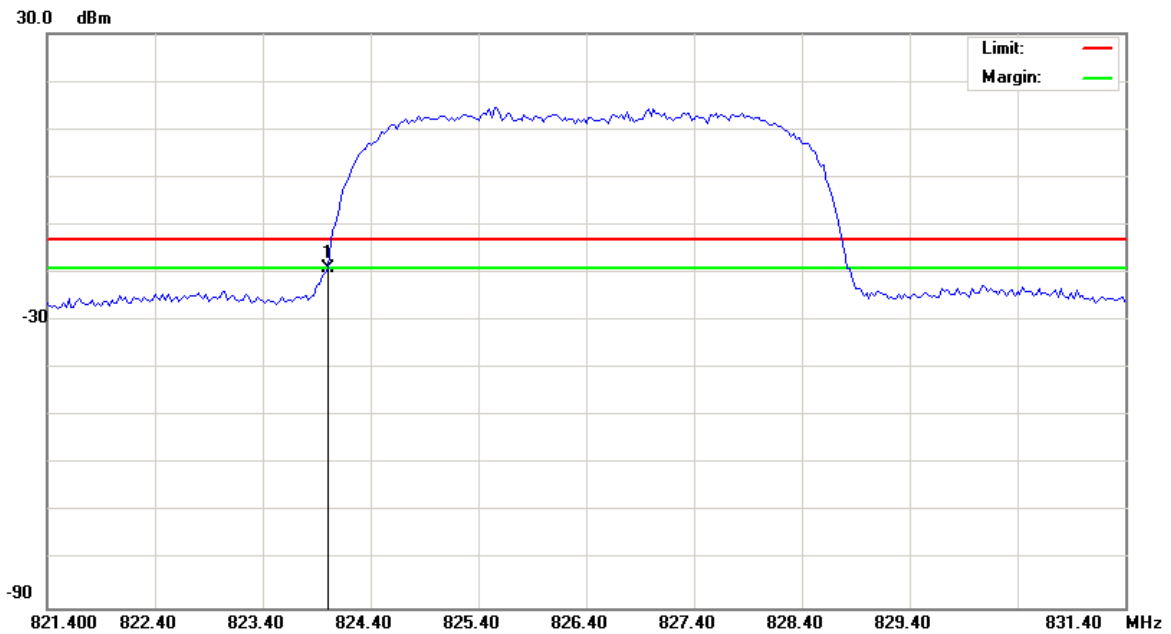


File :Raymond103(wcdma band5)

Data :#1

Date: 2008/4/28

Time: 下午 05:05:00



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 100 KHz

M/N: Raymond103

VBW: 100 KHz

Sweep Time: 200 ms

Mode:

Note: CH4132(824MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	824.0000	-32.31	13.18	-19.13	-13.00	-6.13	peak		

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

●Reference Only



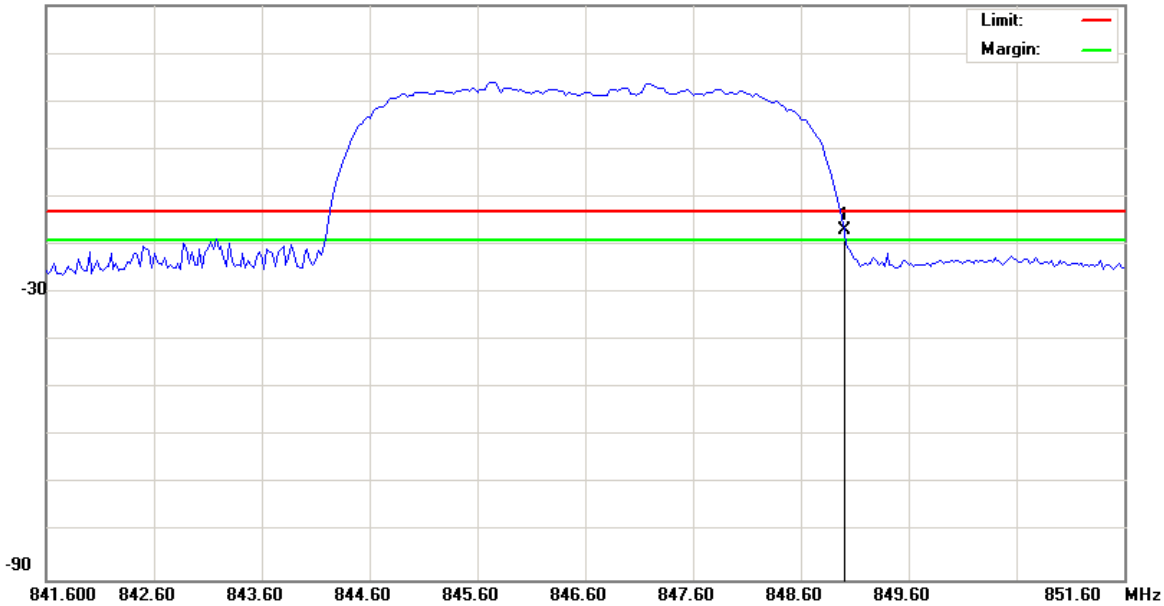
File :Raymond103(wcdma band5)

Data :#2

Date: 2008/4/28

Time: 下午 05:10:55

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 100 KHz

M/N: Raymond103

VBW: 100 KHz

Sweep Time: 200 ms

Mode:

Note: CH4233(849MHz)

加10db衰减器

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	*	849.0000	-30.21	13.25	-16.96	-13.00	-3.96	peak		

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

●Reference Only



WCDMA Band II				
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)
Lower	9262	1850.000	-17.11	-13
Higher	9538	1910.000	-16.64	-13

Please refer to next pager of detail testing data.



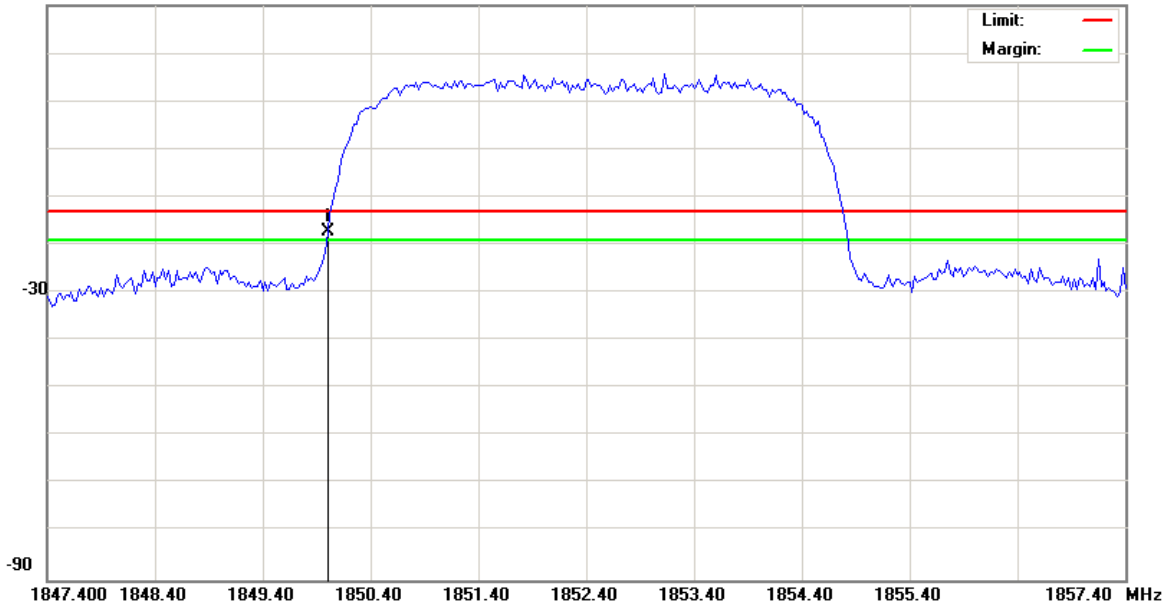
File :Raymond103(wcdma band2)

Data :#1

Date: 2008/4/28

Time: 下午 05:29:40

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 100 KHz

M/N: Raymond103

VBW: 100 KHz

Sweep Time: 200 ms

Mode:

Note: 加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	1850.000	-21.37	4.26	-17.11	-13.00	-4.11	peak		

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

●Reference Only

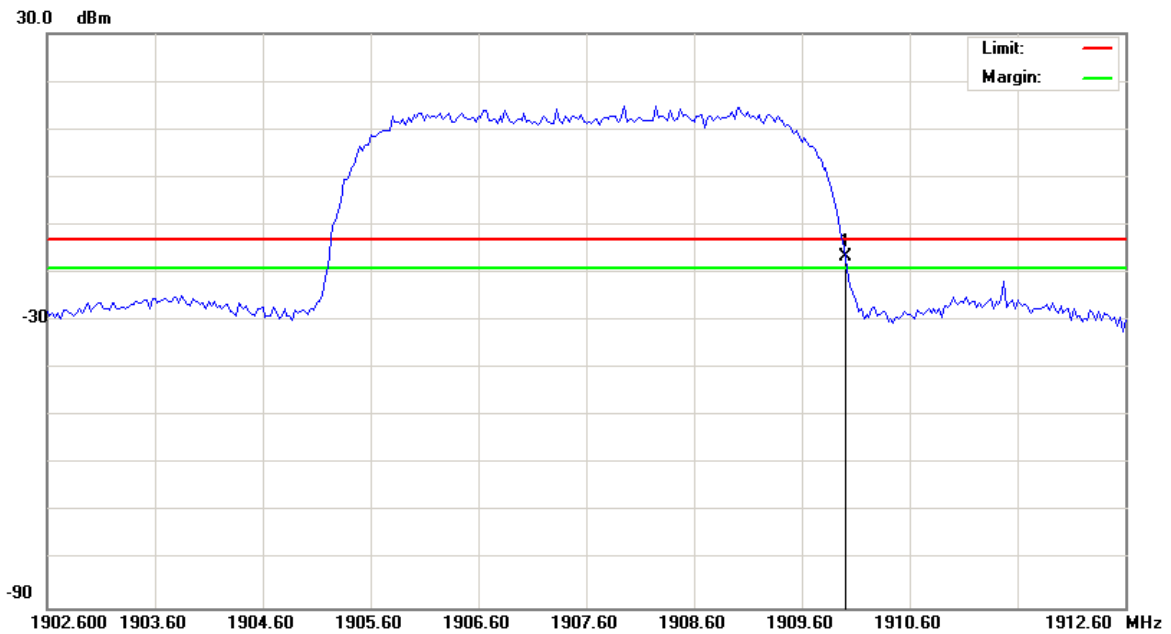


File :Raymond103(wcdma band2)

Data :#2

Date: 2008/4/28

Time: 下午 05:30:22



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance: RBW: 100 KHz

M/N: Raymond103

VBW: 100 KHz

Sweep Time: 200 ms

Mode:

Note: 加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	1910.000	-22.34	5.70	-16.64	-13.00	-3.64	peak		

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

●Reference Only

4.5 Conducted Emission

4.5.1 Measurement Instruments

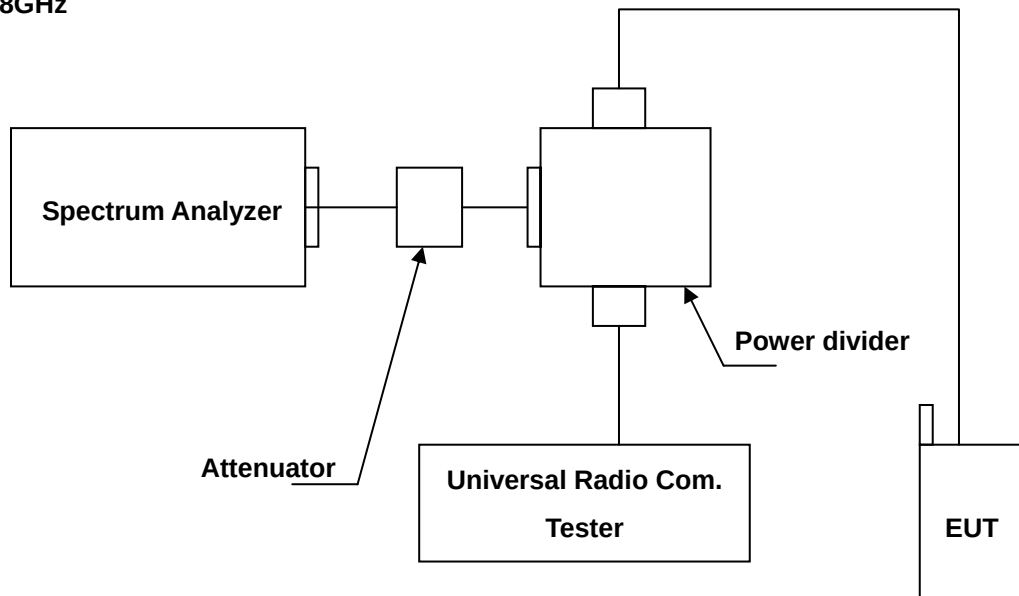
As described in chapter 5 of this test report.

4.5.2 Test Procedure

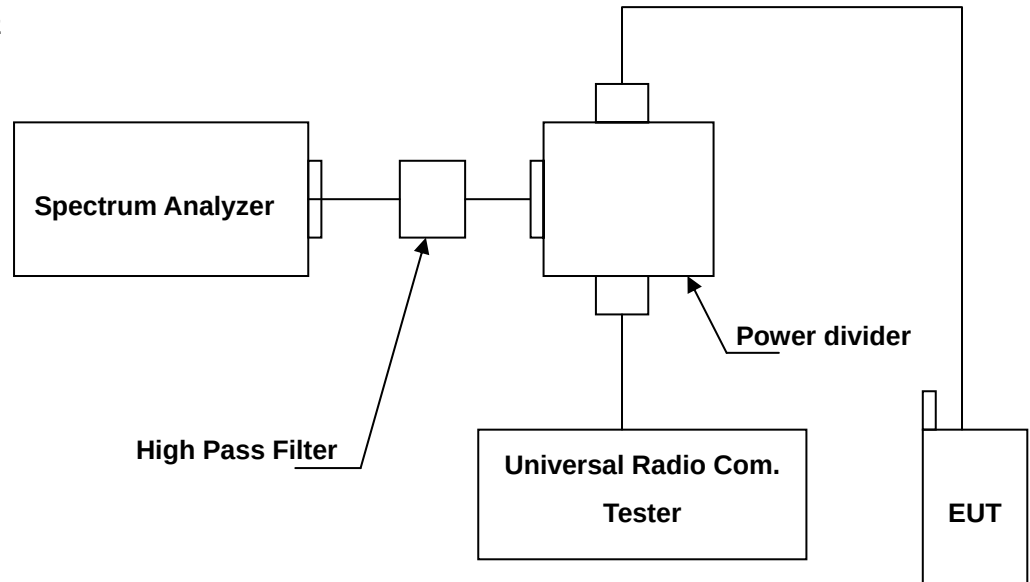
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz;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

4.5.3 Test Setup Layout

Below 2.8GHz



Above 2.8GHz





4.5.4 Test Result

4.5.4.1 GSM 850 Test Result

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : GSM 850 (Low CH128 / Middle CH190 / High CH 251)
Test Date : 04/28/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)
(Auto calculate in spectrum analyzer)



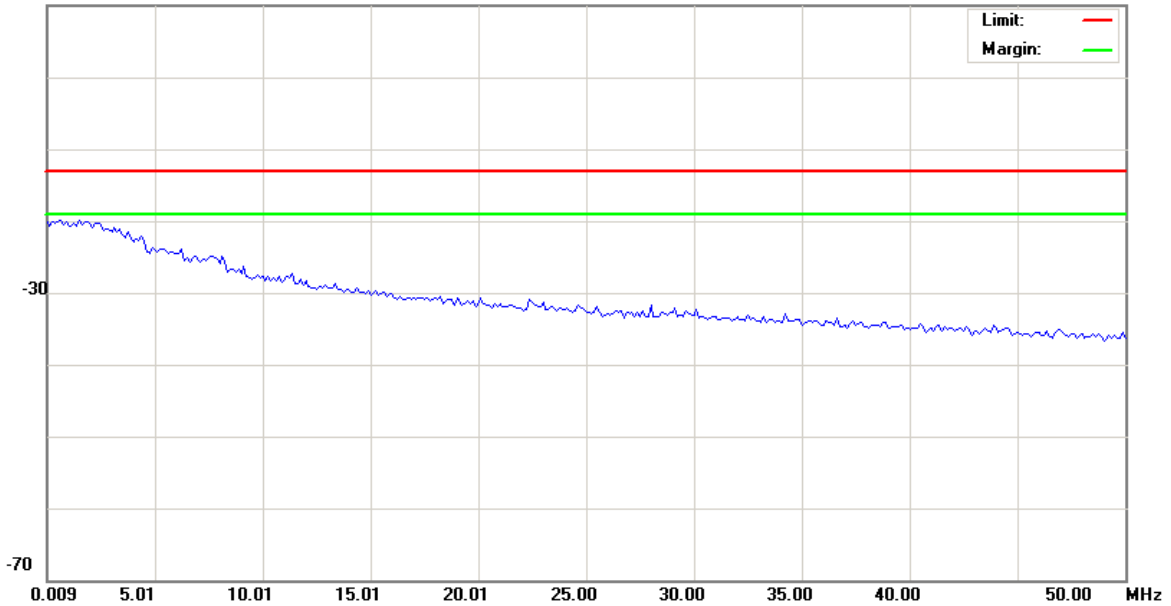
File:Raymond103(CH128)

Data :#1

Date: 2008/4/28

Time: 下午 12:17:35

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH128(824.2MHz)

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment

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

●Reference Only



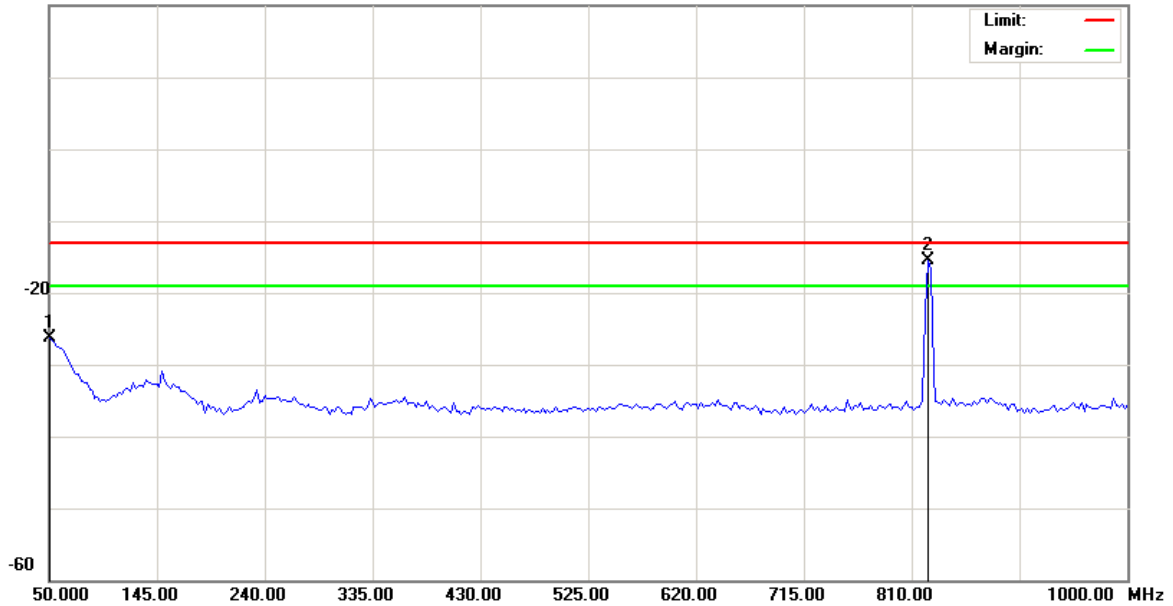
File:Raymond103(CH128)

Data :#2

Date: 2008/4/28

Time: 下午 12:17:56

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH128(824.2MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-40.89	14.69	-26.20	-13.00	-13.20	peak		
2	*	824.2500	-19.30	3.84	-15.46	-13.00	-2.46	peak		Main frequency

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

●Reference Only



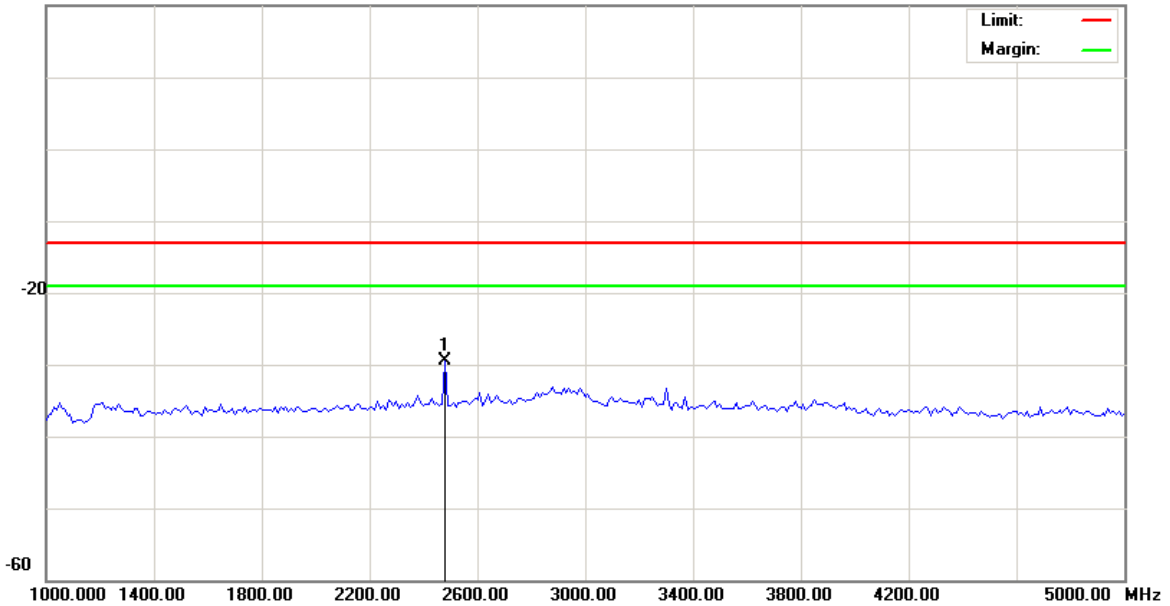
File:Raymond103(CH128)

Data :#3

Date: 2008/4/28

Time: 下午 02:50:10

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH128(824.2MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2480.000	-34.00	4.43	-29.57	-13.00	-16.57	peak		

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

●Reference Only



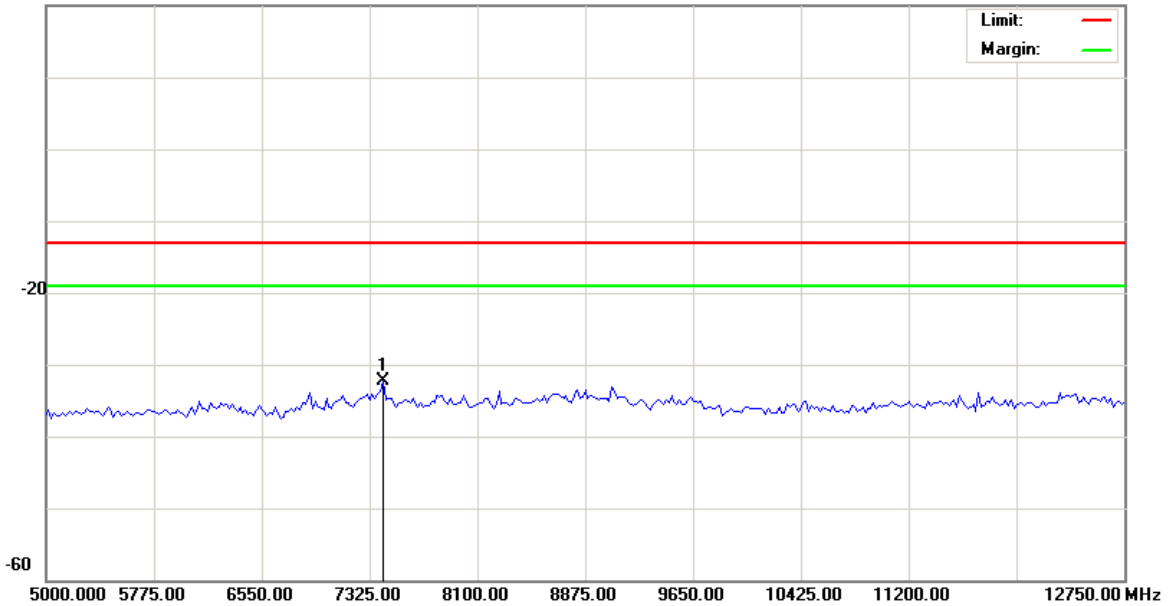
File:Raymond103(CH128)

Data :#4

Date: 2008/4/28

Time: 下午 02:50:31

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH128(824.2MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	7421.875	-37.53	5.21	-32.32	-13.00	-19.32	peak		

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

●Reference Only



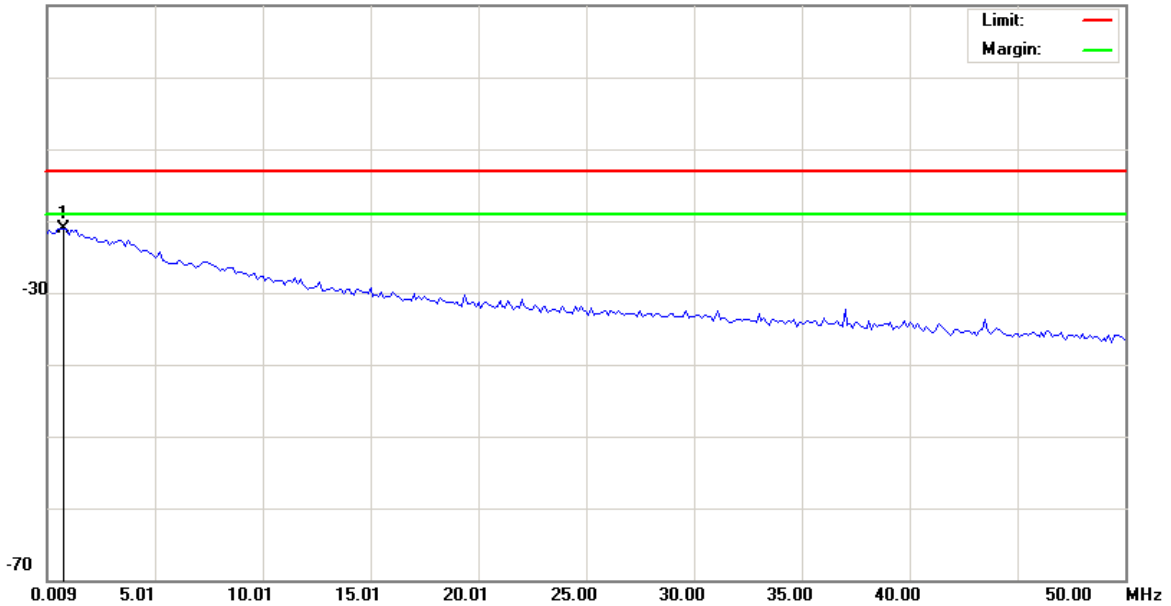
File:Raymond103(CH190)

Data :#1

Date: 2008/4/28

Time: 下午 01:34:10

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH190(836.6MHz)

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.7589	-52.95	31.89	-21.06	-13.00	-8.06	peak		

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

●Reference Only



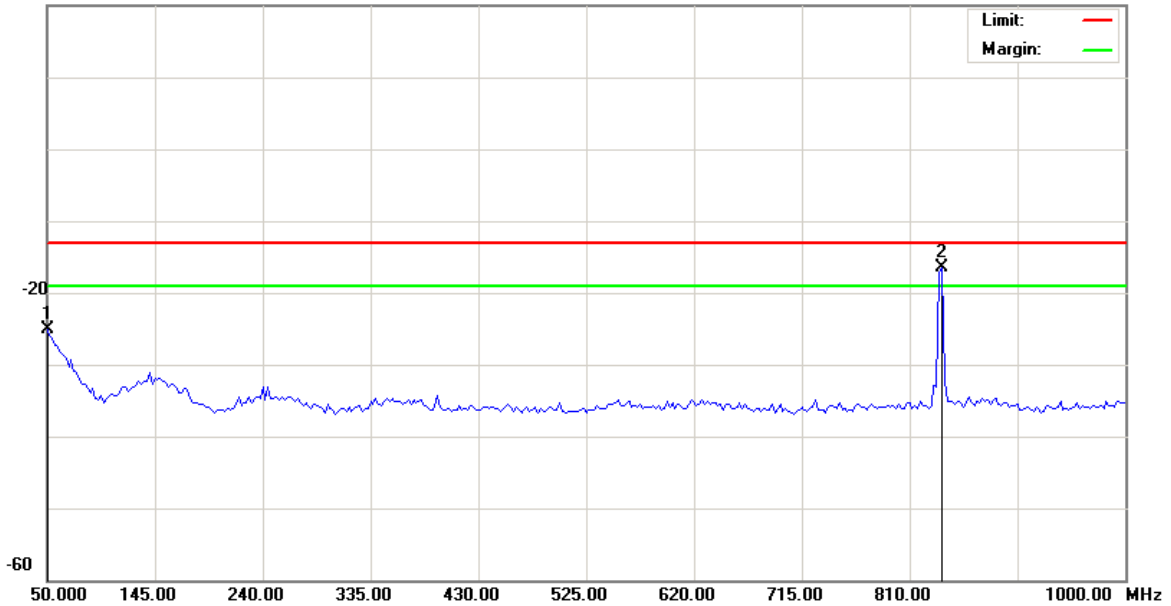
File:Raymond103(CH190)

Data :#2

Date: 2008/4/28

Time: 下午 01:34:31

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH190(836.6MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-39.73	14.69	-25.04	-13.00	-12.04	peak		
2	*	838.5000	-20.53	3.97	-16.56	-13.00	-3.56	peak		Main frequency

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

●Reference Only



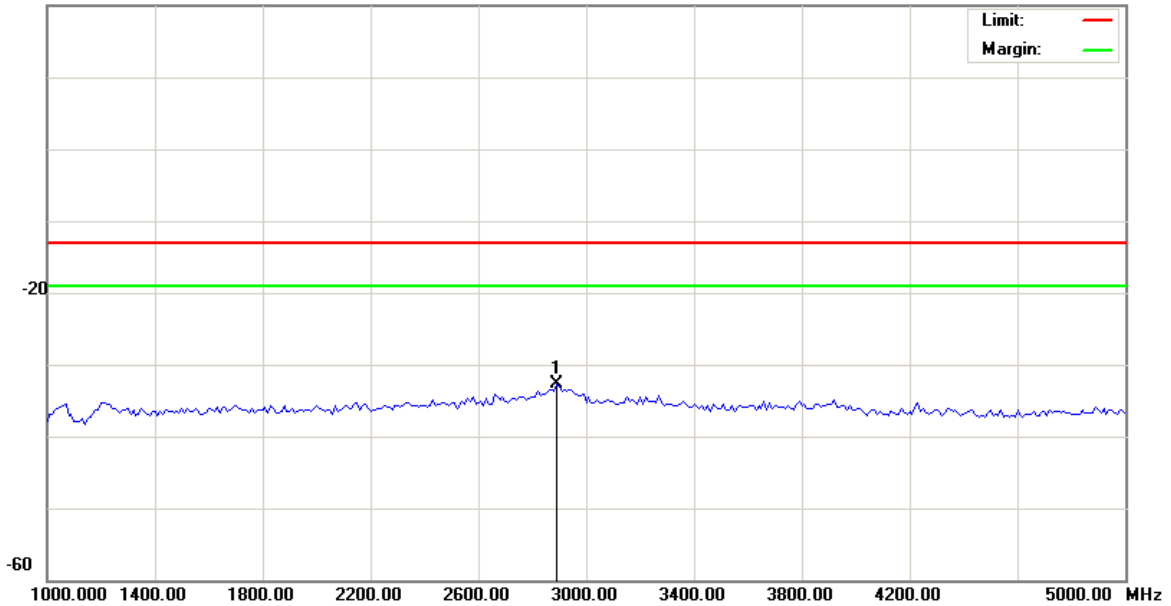
File:Raymond103(CH190)

Data :#3

Date: 2008/4/28

Time: 下午 02:51:09

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH190(836.6MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2890.000	-37.46	4.71	-32.75	-13.00	-19.75	peak		

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

●Reference Only



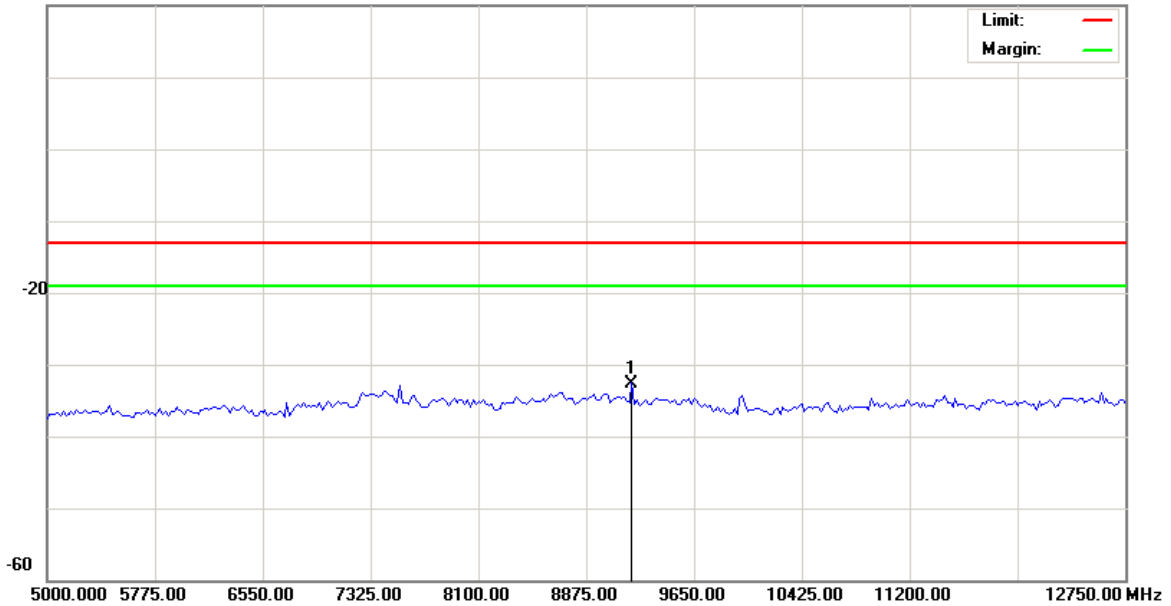
File:Raymond103(CH190)

Data :#4

Date: 2008/4/28

Time: 下午 02:51:30

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH190(836.6MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	9204.375	-38.10	5.50	-32.60	-13.00	-19.60	peak		

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

●Reference Only



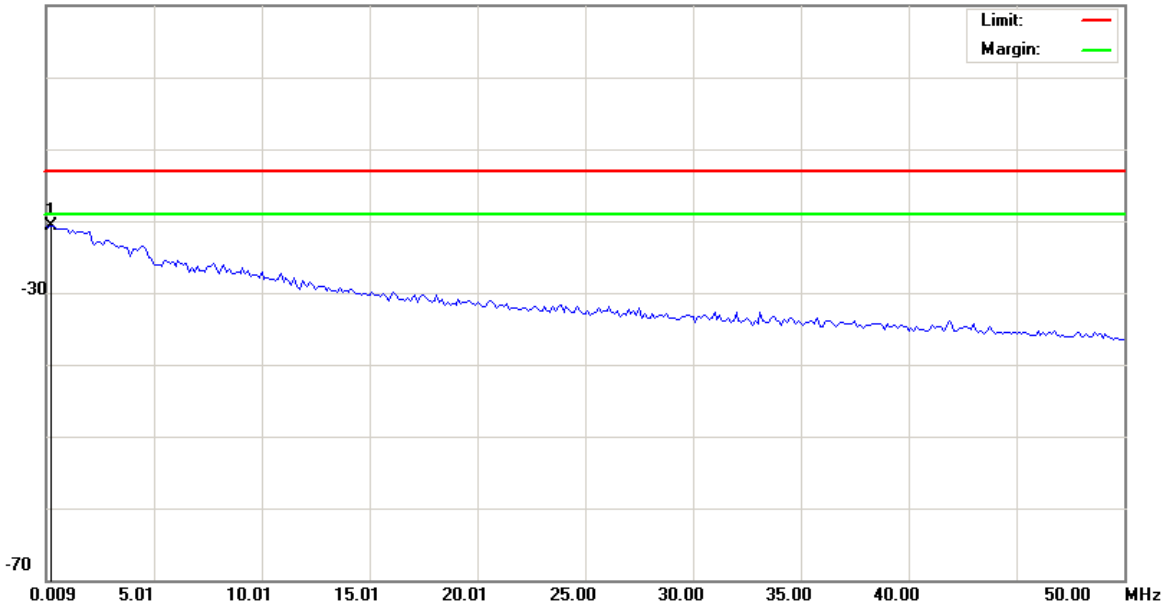
File:Raymond103(CH251)

Data :#1

Date: 2008/4/28

Time: 下午 01:37:43

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH251(848.8MHz)

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.2590	-52.07	31.40	-20.67	-13.00	-7.67	peak		

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

●Reference Only



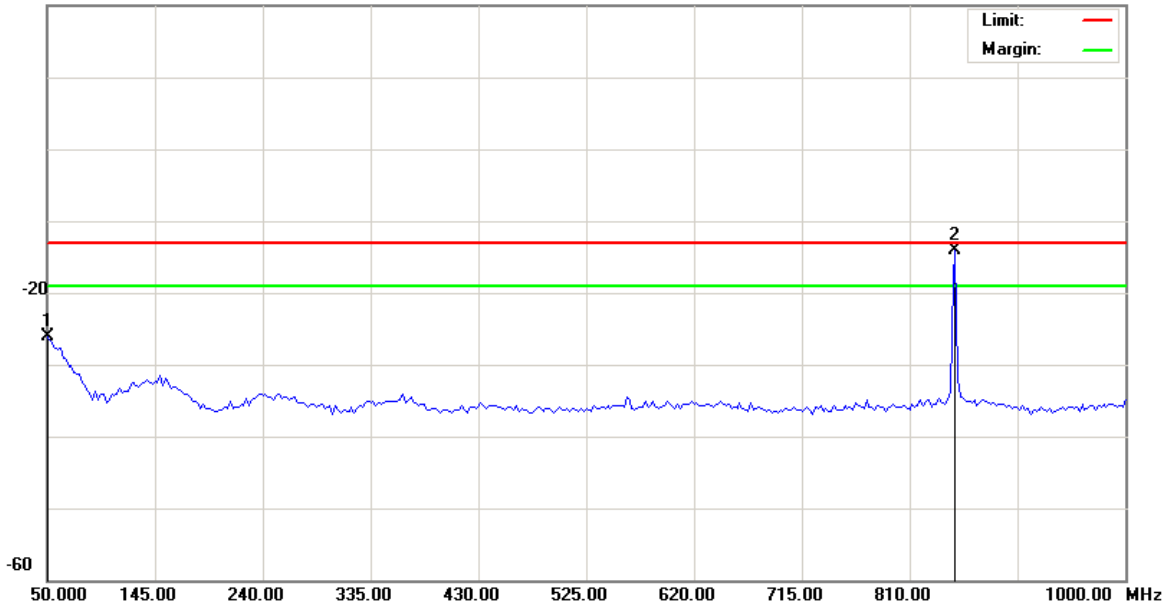
File:Raymond103(CH251)

Data :#2

Date: 2008/4/28

Time: 下午 01:38:04

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH251(848.8MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-40.88	14.69	-26.19	-13.00	-13.19	peak		
2	*	850.3750	-18.08	3.98	-14.10	-13.00	-1.10	peak		Main frequency

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

●Reference Only



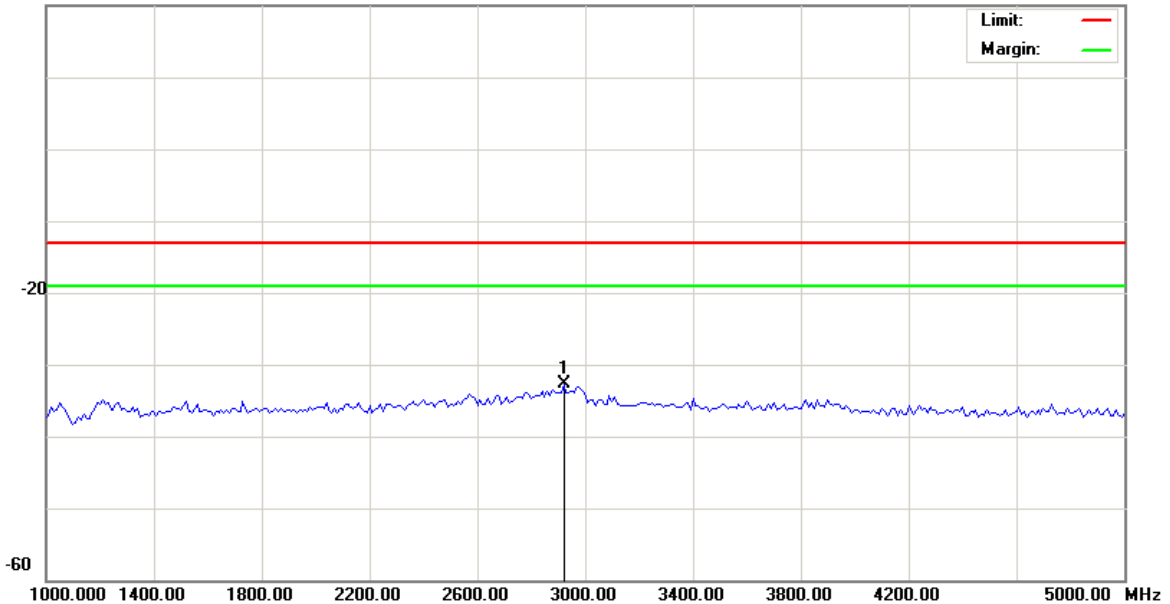
File:Raymond103(CH251)

Data :#3

Date: 2008/4/28

Time: 下午 02:52:31

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH251(848.8MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2920.000	-37.45	4.69	-32.76	-13.00	-19.76	peak		

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

●Reference Only



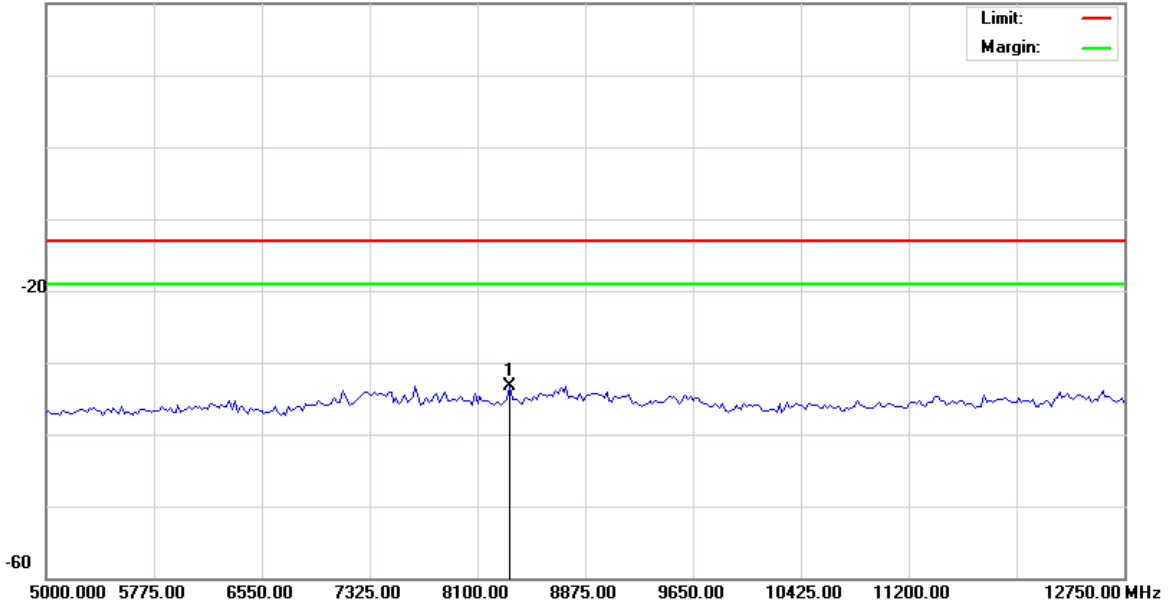
File:Raymond103(CH251)

Data :#4

Date: 2008/4/28

Time: 下午 02:52:52

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH251(848.8MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	8332.500	-38.30	5.06	-33.24	-13.00	-20.24	peak		

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

●Reference Only



4.5.4.2 PCS 1900 Test Result

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : PCS 1900 (Low CH512 / Middle CH661 / High CH 810)
Test Date : 04/28/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)
(Auto calculate in spectrum analyzer)



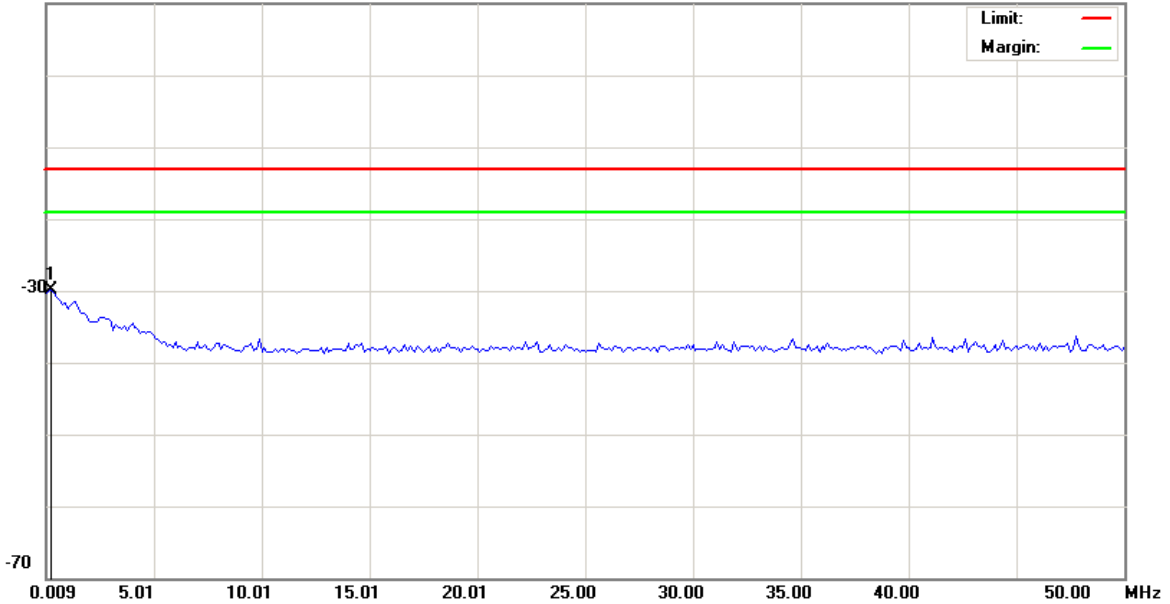
File:Raymond103(CH512)

Data :#1

Date: 2008/4/28

Time: 上午 11:50:07

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH512(1850.2MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.2590	-42.51	12.54	-29.97	-13.00	-16.97	peak		

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

●Reference Only



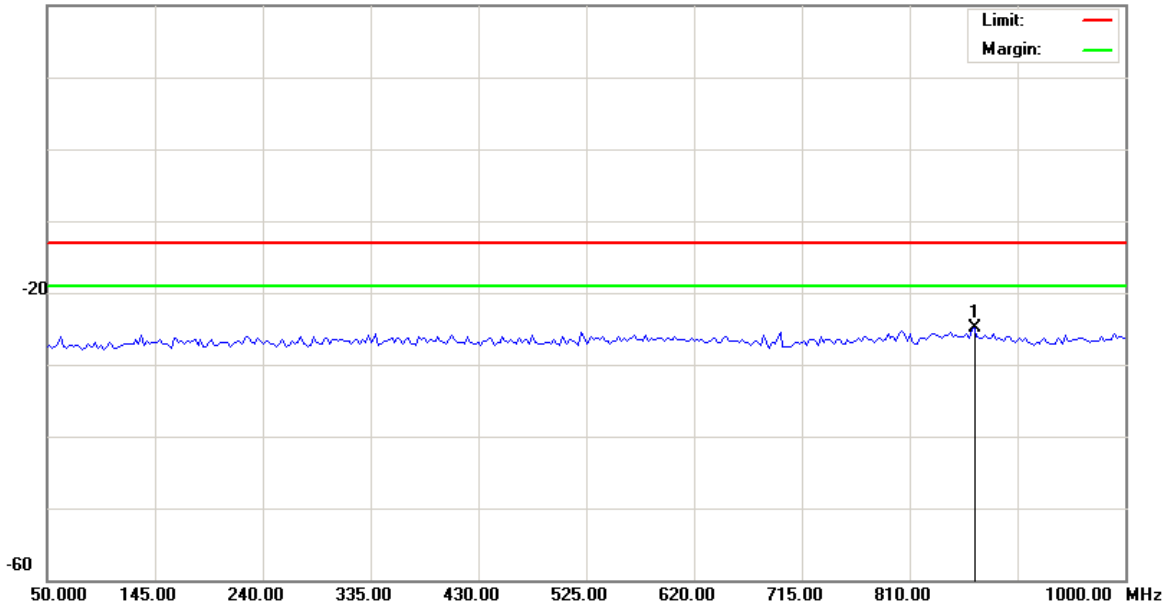
File:Raymond103(CH512)

Data :#2

Date: 2008/4/28

Time: 上午 11:50:28

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH512(1850.2MHz)

加10db衰减器

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	*	867.0000	-38.12	13.26	-24.86	-13.00	-11.86	peak		

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

●Reference Only



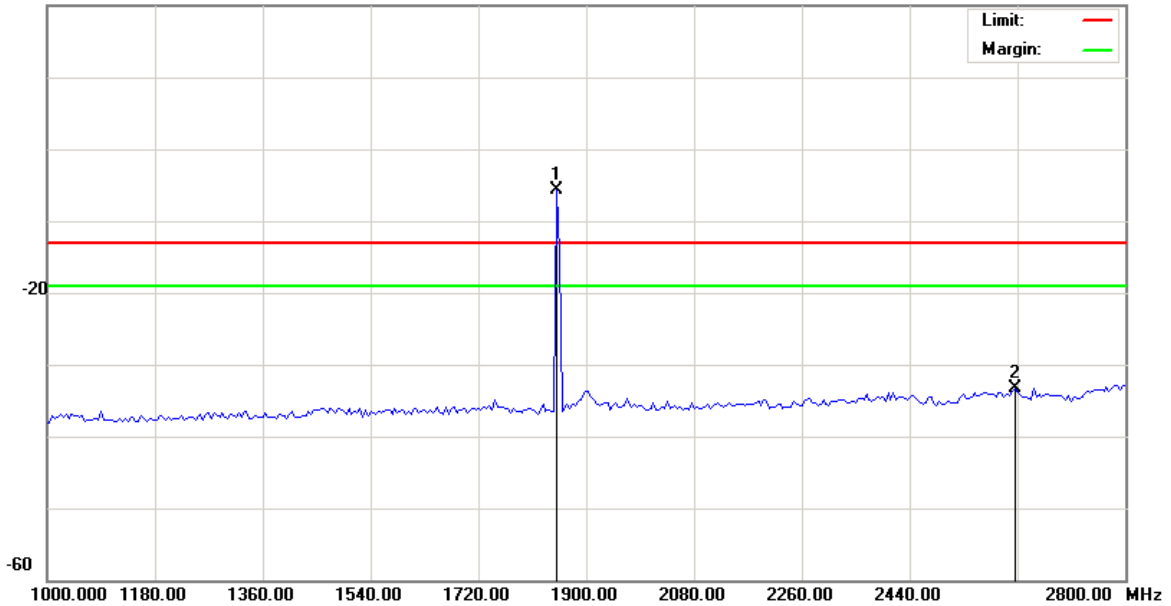
File:Raymond103(CH512)

Data :#3

Date: 2008/4/28

Time: 下午 02:07:10

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH512(1850.2MHz)

加Notch(5TNF-1700)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1850.500	-9.98	4.26	-5.72	-13.00	7.28	peak		Main frequency
2		2615.500	-38.65	5.44	-33.21	-13.00	-20.21	peak		

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

●Reference Only



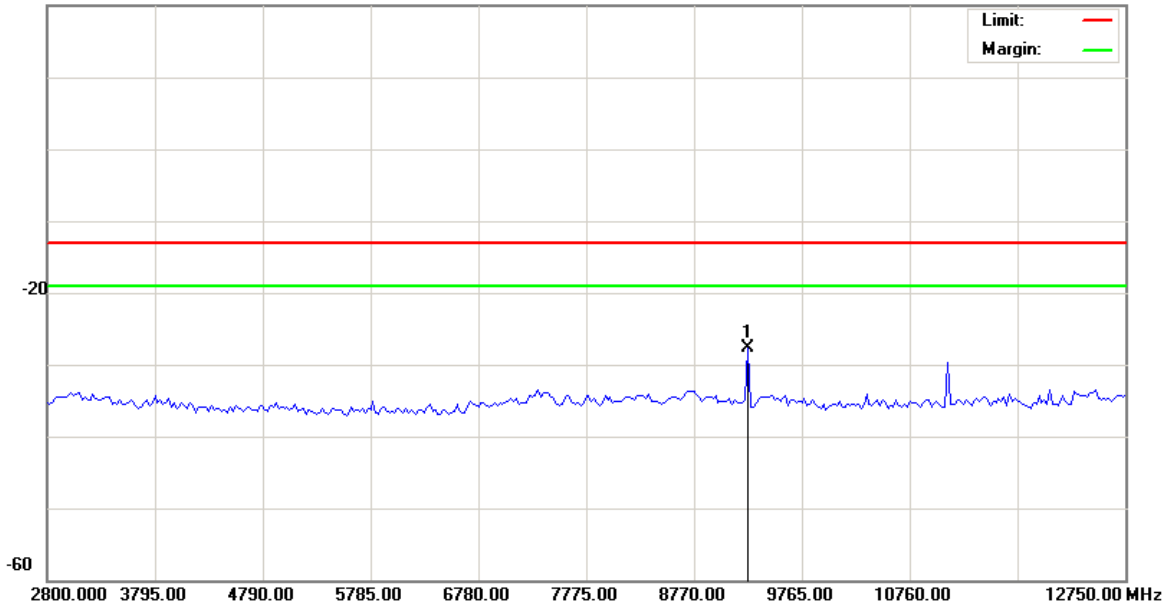
File:Raymond103(CH512)

Data :#4

Date: 2008/4/28

Time: 下午 02:57:47

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH512(1850.2MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	9267.500	-33.26	5.49	-27.77	-13.00	-14.77	peak		

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

●Reference Only



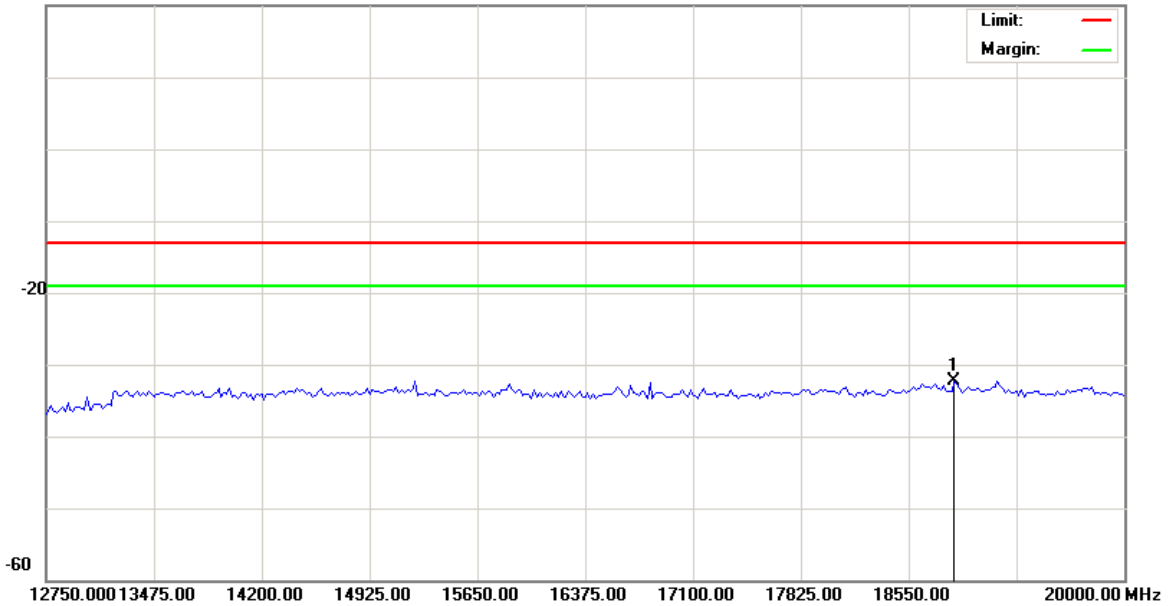
File:Raymond103(CH512)

Data :#5

Date: 2008/4/28

Time: 下午 02:58:08

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH512(1850.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18858.12	-39.43	7.11	-32.32	-13.00	-19.32	peak		

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

●Reference Only



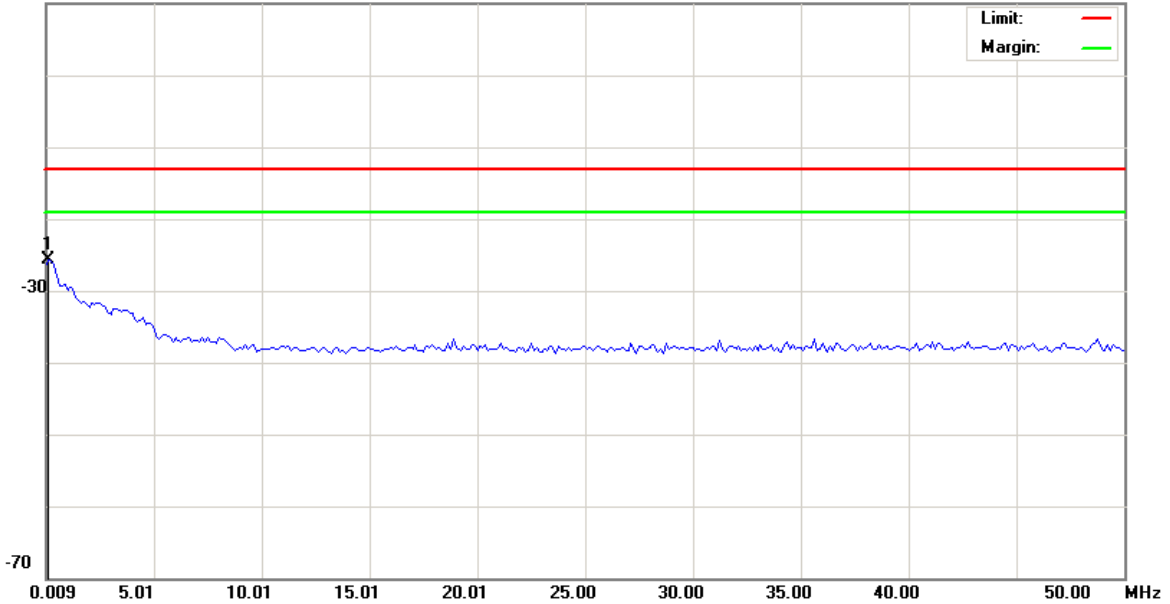
File:Raymond103(CH661)

Data :#1

Date: 2008/4/28

Time: 上午 11:53:36

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH661(1880MHz)

加10db衰减器

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	*	0.1340	-38.16	12.48	-25.68	-13.00	-12.68	peak		

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

●Reference Only



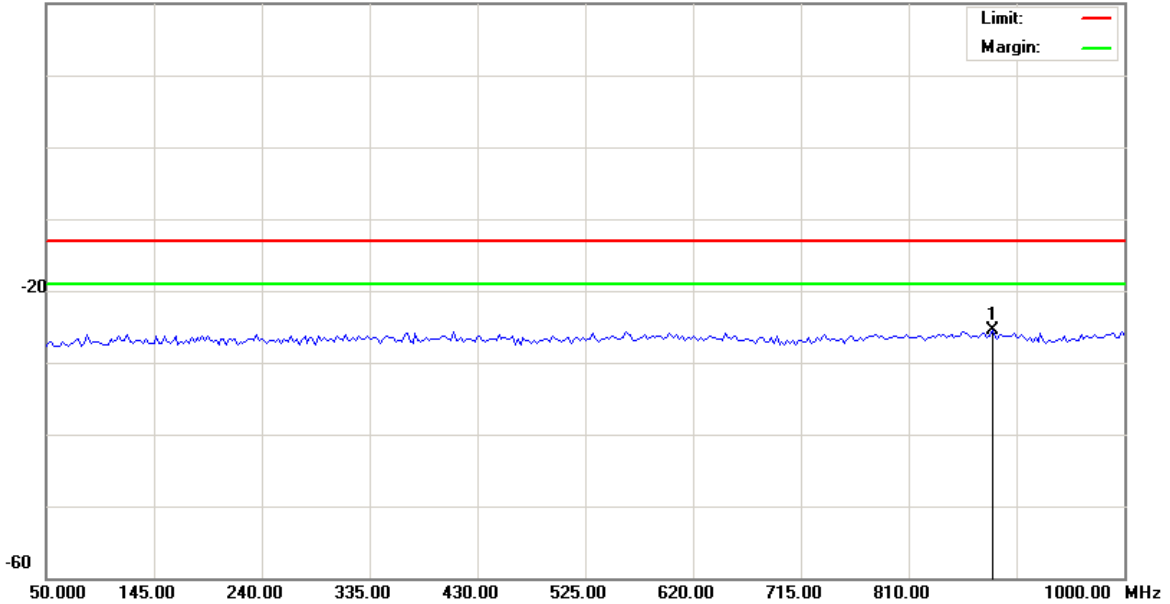
File:Raymond103(CH661)

Data :#2

Date: 2008/4/28

Time: 上午 11:53:57

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH661(1880MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	883.6250	-38.79	13.20	-25.59	-13.00	-12.59	peak		

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

●Reference Only



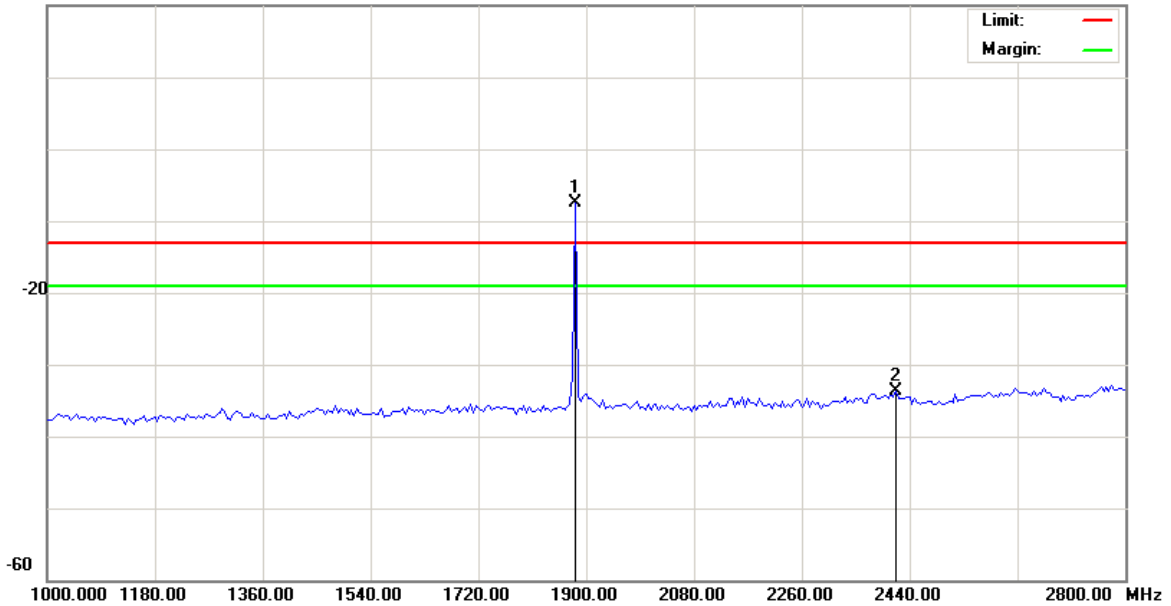
File:Raymond103(CH661)

Data :#3

Date: 2008/4/28

Time: 下午 02:10:41

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH661(1880MHz)

加Notch(5TNF-1700)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1882.000	-12.26	4.83	-7.43	-13.00	5.57	peak		Main frequency
2		2417.500	-38.77	5.15	-33.62	-13.00	-20.62	peak		

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

●Reference Only



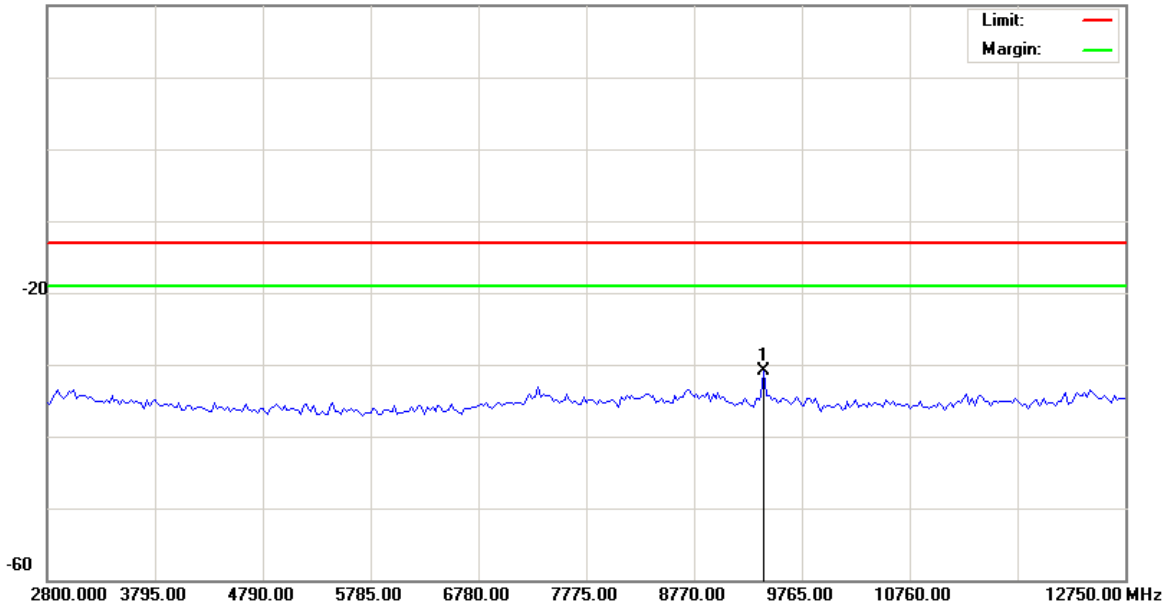
File:Raymond103(CH661)

Data :#4

Date: 2008/4/28

Time: 下午 02:58:59

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH661(1880MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	9416.750	-36.59	5.67	-30.92	-13.00	-17.92	peak		

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

●Reference Only



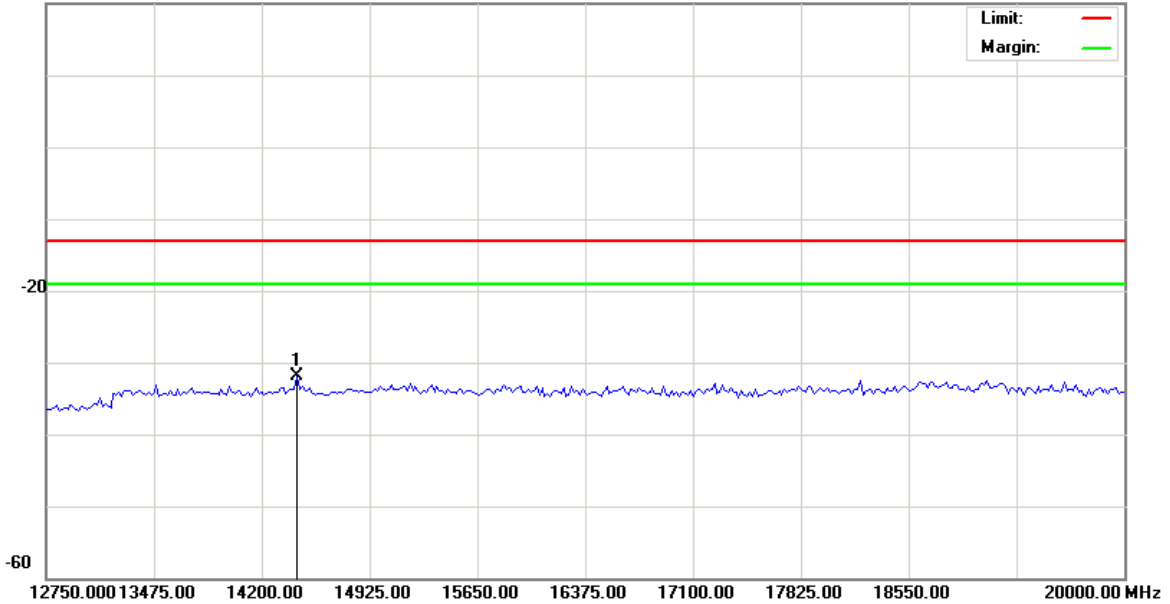
File:Raymond103(CH661)

Data :#5

Date: 2008/4/28

Time: 下午 02:59:20

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH661(1880MHz)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	14435.62	-37.78	5.85	-31.93	-13.00	-18.93	peak		

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

●Reference Only



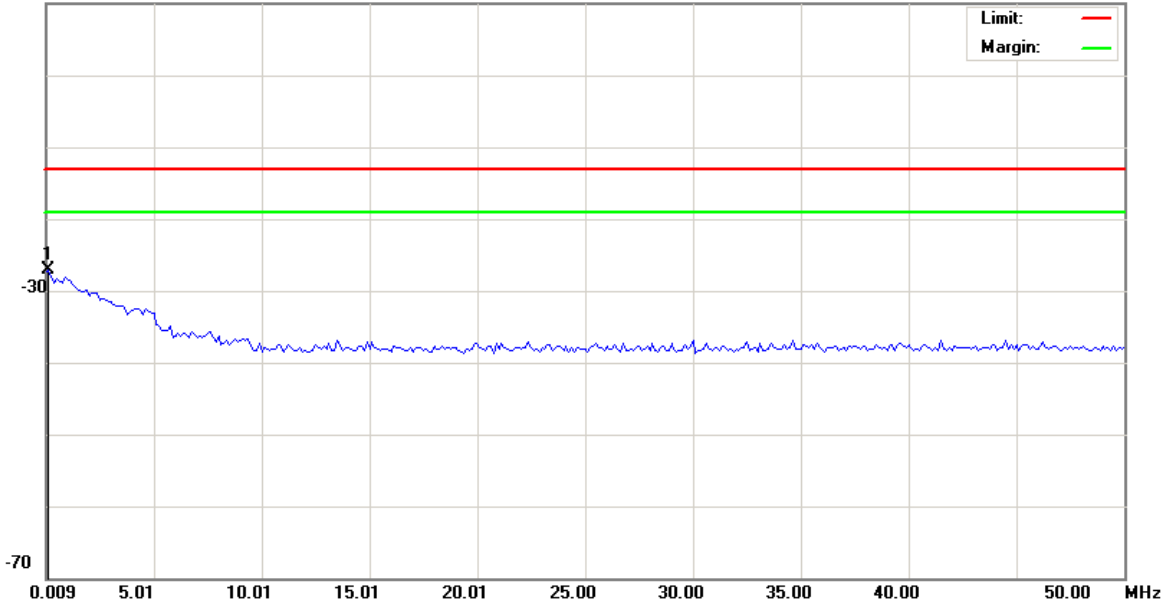
File:Raymond103(CH810)

Data :#1

Date: 2008/4/28

Time: 上午 11:54:49

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH810(1909.8MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.1340	-39.66	12.48	-27.18	-13.00	-14.18	peak		

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

●Reference Only



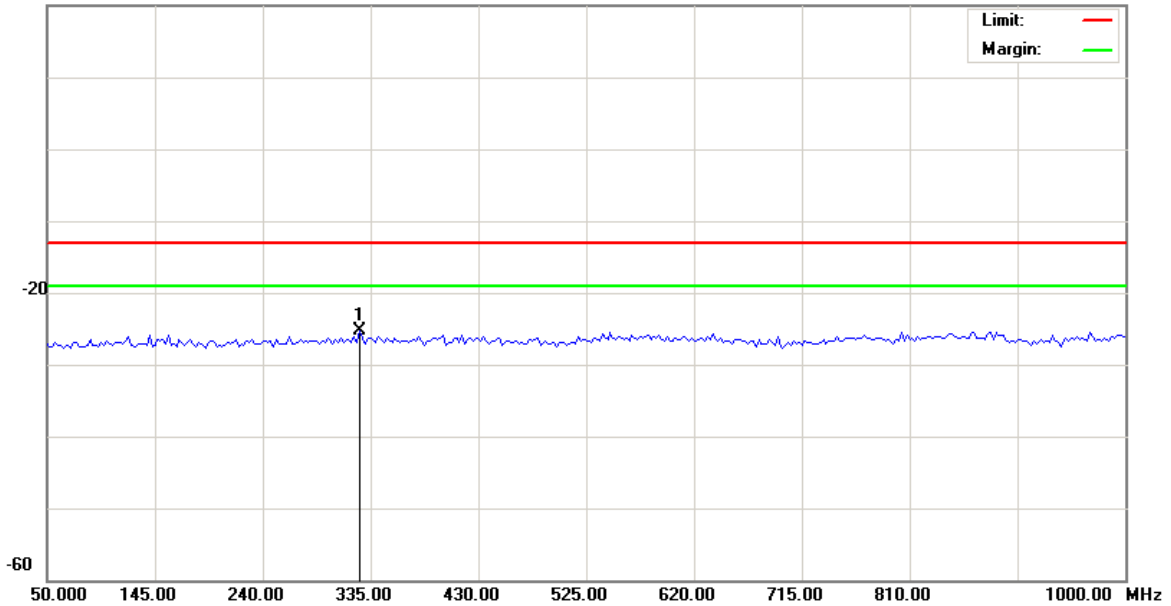
File:Raymond103(CH810)

Data :#2

Date: 2008/4/28

Time: 上午 11:55:09

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH810(1909.8MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	325.5000	-38.41	13.16	-25.25	-13.00	-12.25	peak		

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

●Reference Only



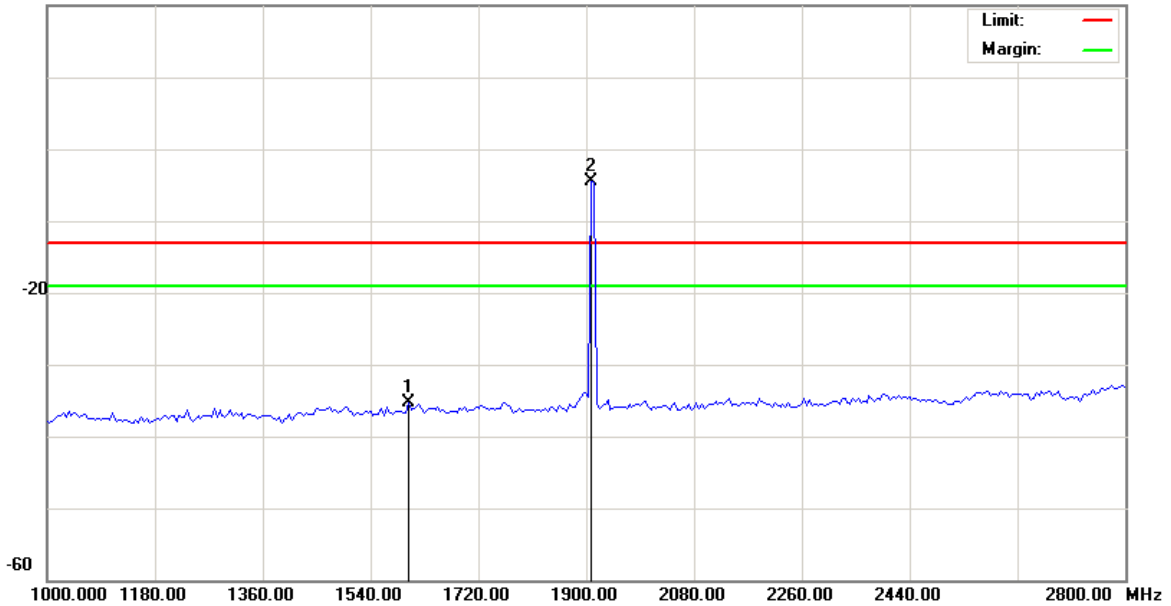
File:Raymond103(CH810)

Data :#3

Date: 2008/4/28

Time: 下午 02:13:51

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH810(1909.8MHz)

加Notch(5TNF-1700)

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		1603.000	-39.64	4.36	-35.28	-13.00	-22.28	peak		
2	*	1909.000	-10.34	5.80	-4.54	-13.00	8.46	peak		Main frequency

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

●Reference Only



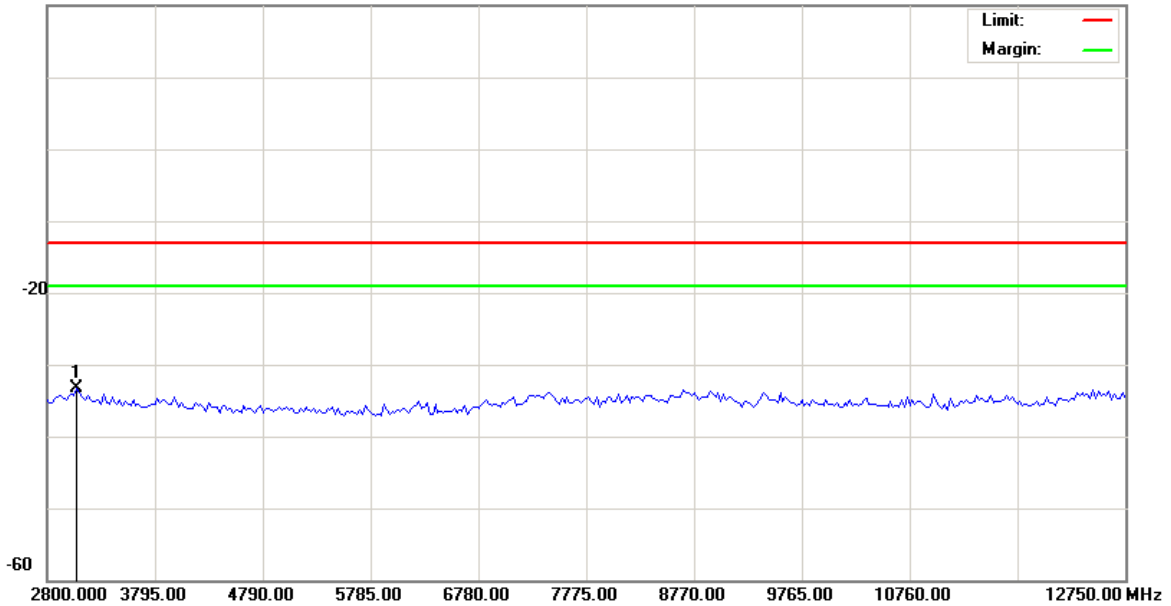
File:Raymond103(CH810)

Data :#4

Date: 2008/4/28

Time: 下午 03:00:02

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH810(1909.8MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	3073.625	-38.78	5.40	-33.38	-13.00	-20.38	peak		

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

●Reference Only



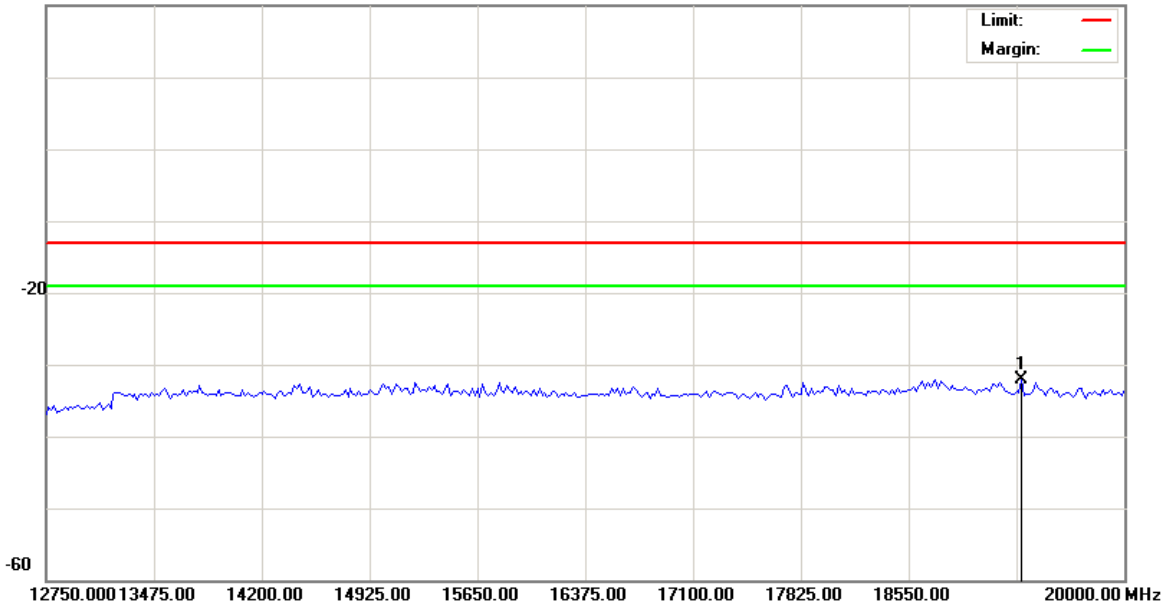
File:Raymond103(CH810)

Data :#5

Date: 2008/4/28

Time: 下午 03:00:23

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH810(1909.8MHz)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19311.25	-39.36	7.24	-32.12	-13.00	-19.12	peak		

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

●Reference Only



4.5.4.3 WCDMA Band V Test Result

Applicant : Inventec Corporation

Model No : Velocity 103

EUT : PDA PHONE

Test Mode : WCDMA Band V (Low CH4132 / Middle CH4182 / High CH 4233)

Test Date : 04/28/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)

(Auto calculate in spectrum analyzer)



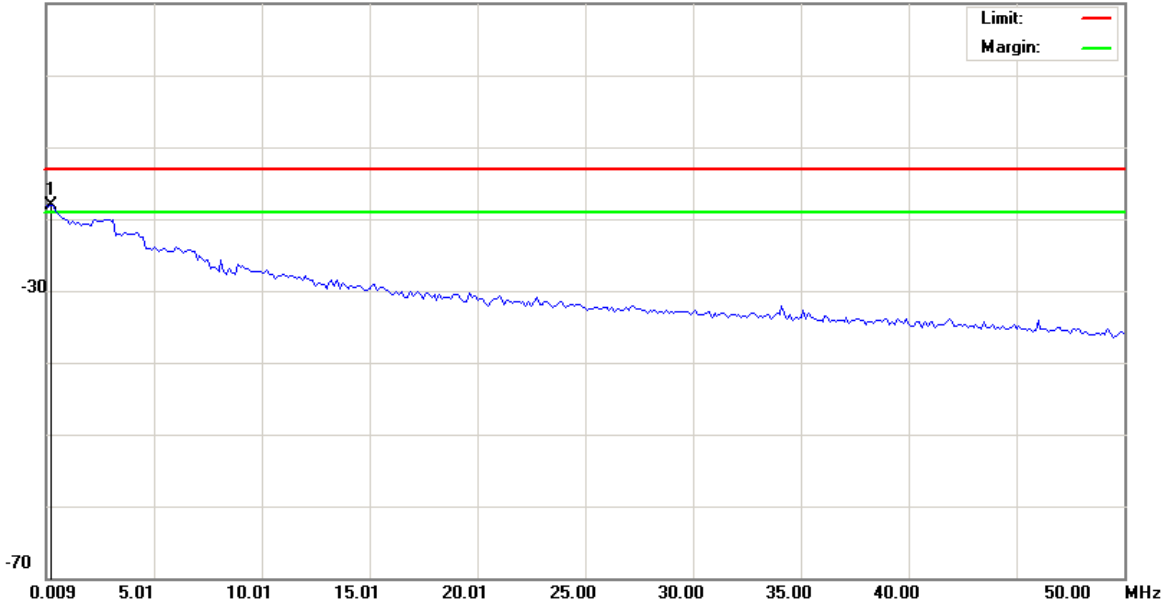
File:Raymond103(CH4132)

Data :#1

Date: 2008/4/28

Time: 下午 01:49:32

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH128(824.2MHz)

加Notch(3TNF-800)

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	*	0.2590	-49.52	31.40	-18.12	-13.00	-5.12	peak		

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

●Reference Only



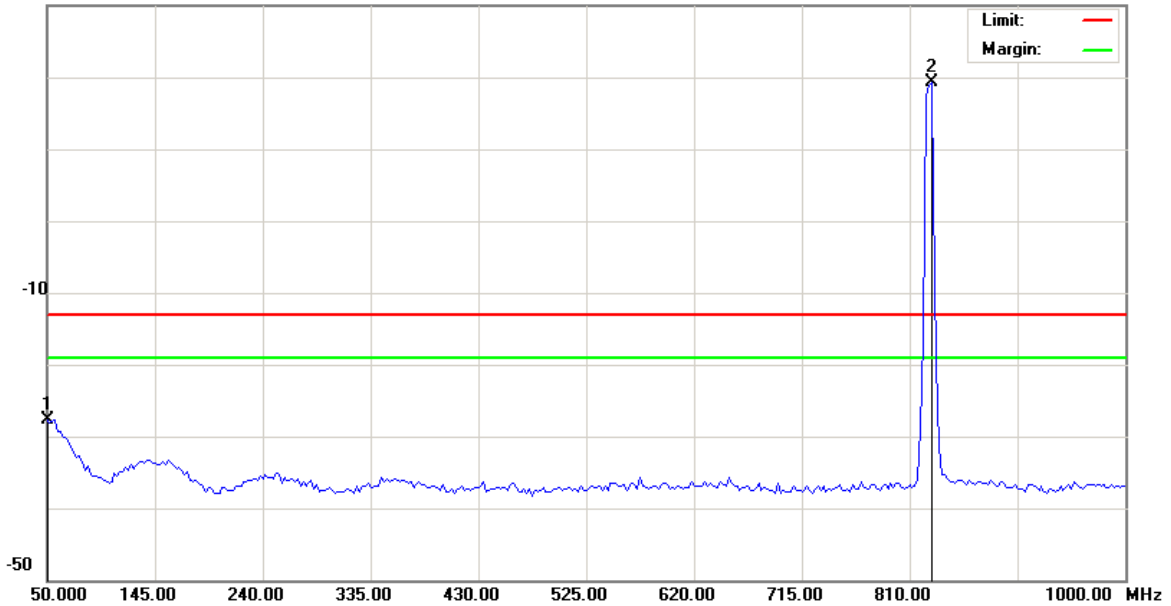
File:Raymond103(CH4132)

Data :#2

Date: 2008/4/28

Time: 下午 01:49:53

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4132(826.4MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-42.30	14.69	-27.61	-13.00	-14.61	peak		
2	*	829.0000	15.45	3.89	19.34	-13.00	32.34	peak		Main frequency

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

●Reference Only



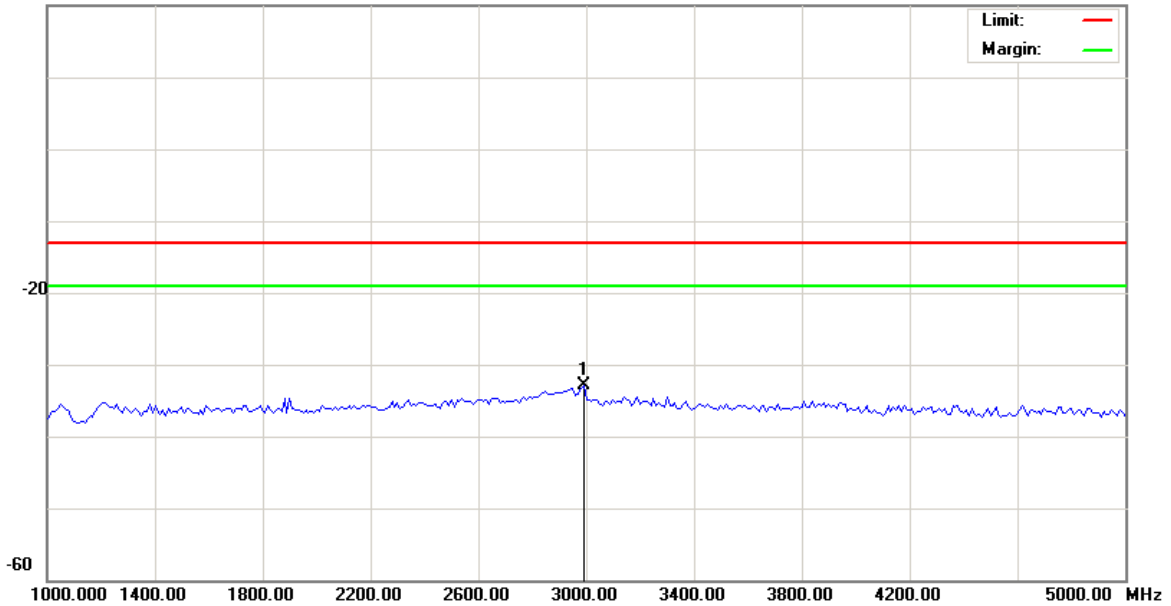
File:Raymond103(CH4132)

Data :#3

Date: 2008/4/28

Time: 下午 02:40:39

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4132(826.4MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2990.000	-37.42	4.53	-32.89	-13.00	-19.89	peak		

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

●Reference Only



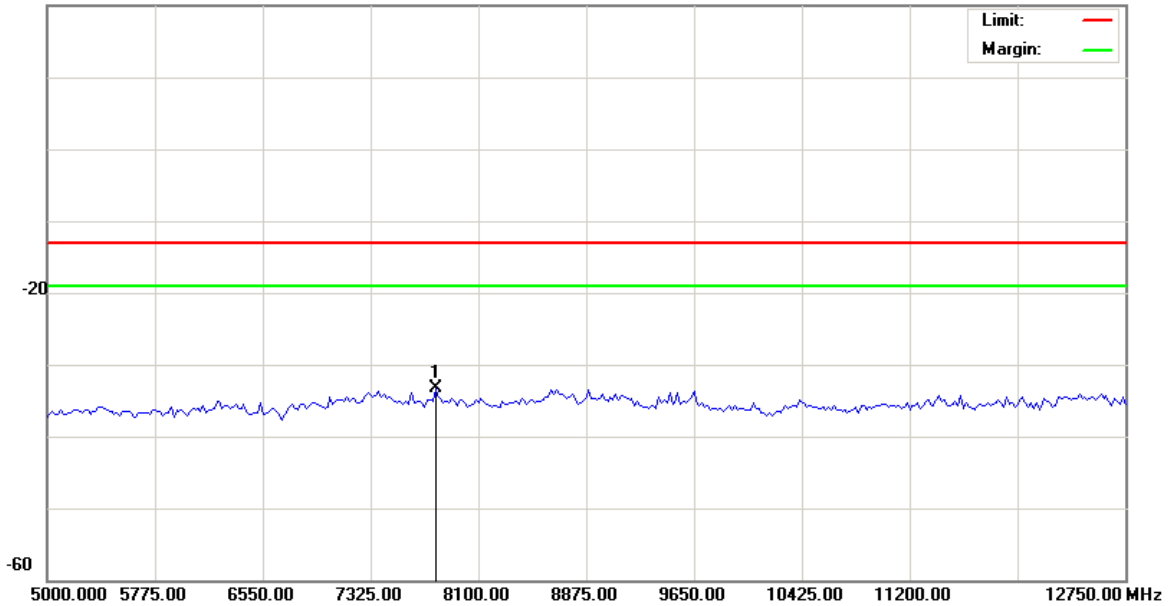
File:Raymond103(CH4132)

Data :#4

Date: 2008/4/28

Time: 下午 02:41:00

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4132(826.4MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	7790.000	-38.54	5.18	-33.36	-13.00	-20.36	peak		

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

●Reference Only



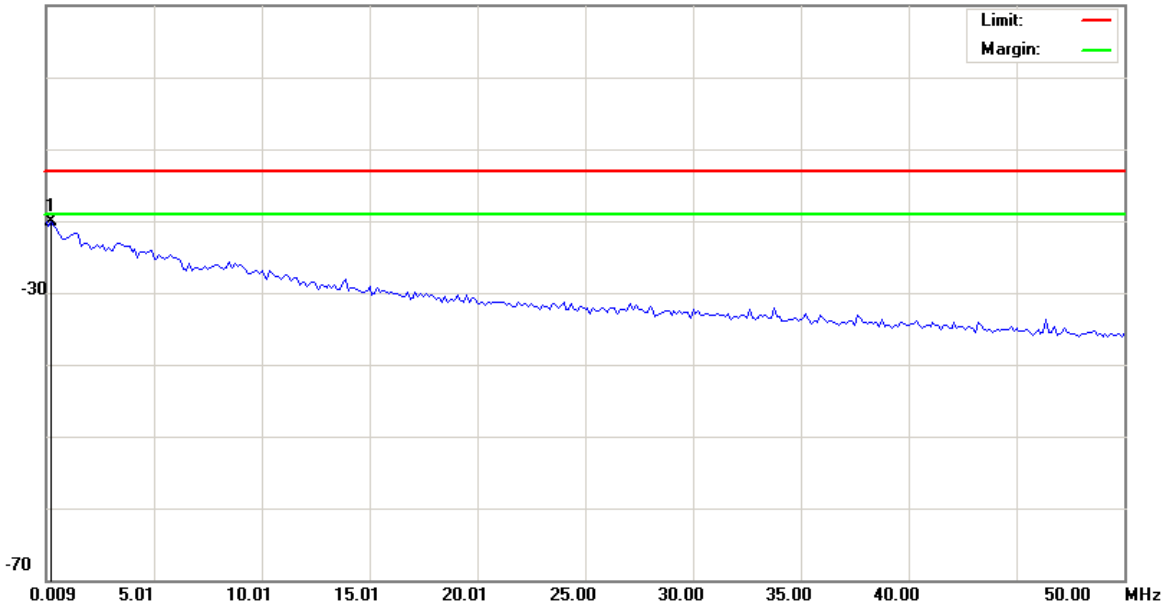
File:Raymond103(CH4182)

Data :#1

Date: 2008/4/28

Time: 下午 01:53:43

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4182(836.4MHz)

加Notch(3TNF-800)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.2590	-51.52	31.40	-20.12	-13.00	-7.12	peak		

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

●Reference Only



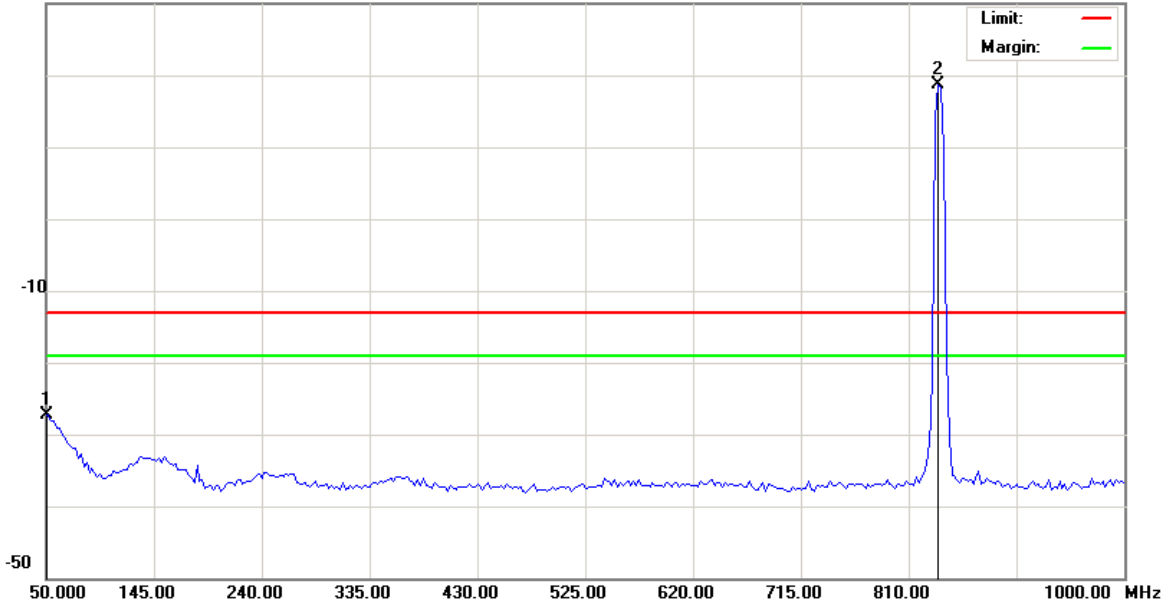
File:Raymond103(CH4182)

Data :#2

Date: 2008/4/28

Time: 下午 01:54:04

30.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4182(836.4MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-41.94	14.69	-27.25	-13.00	-14.25	peak		
2	*	836.1250	14.79	3.96	18.75	-13.00	31.75	peak		Main frequency

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

●Reference Only



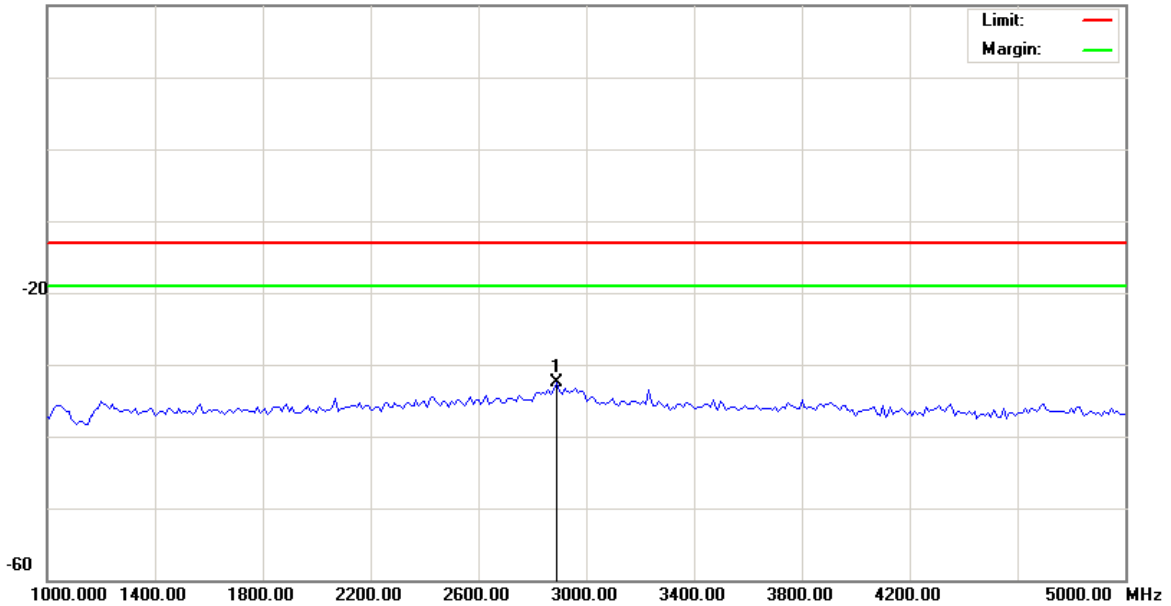
File:Raymond103(CH4182)

Data :#3

Date: 2008/4/28

Time: 下午 02:43:37

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4182(836.4MHz)

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	*	2890.000	-37.28	4.71	-32.57	-13.00	-19.57	peak		

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

●Reference Only



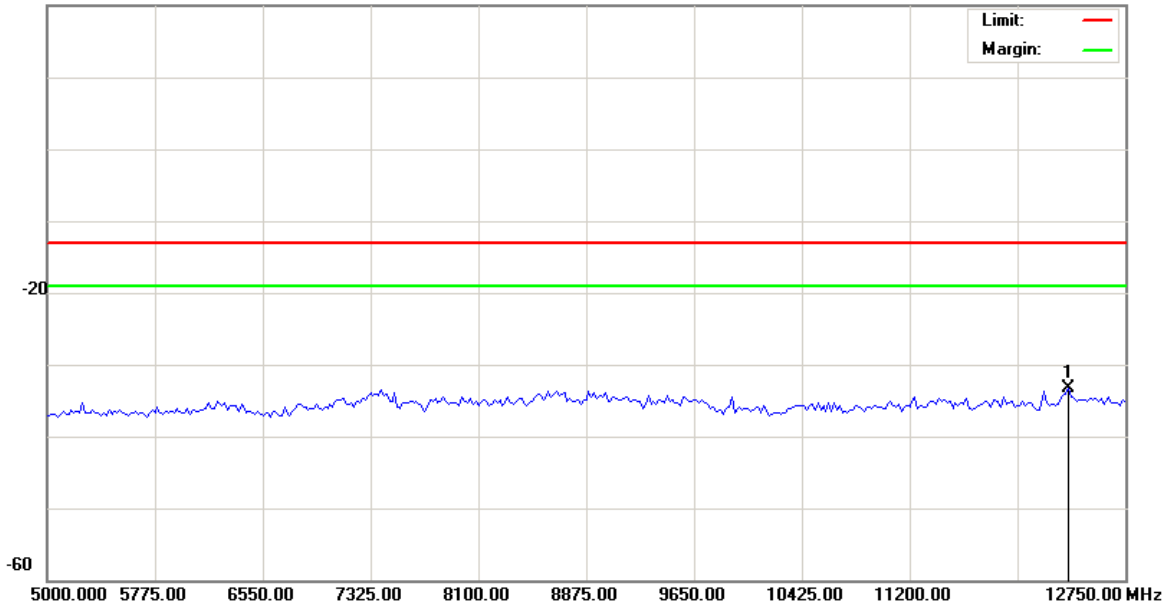
File:Raymond103(CH4182)

Data :#4

Date: 2008/4/28

Time: 下午 02:43:58

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4182(836.4MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	12343.12	-38.12	4.76	-33.36	-13.00	-20.36	peak		

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

●Reference Only



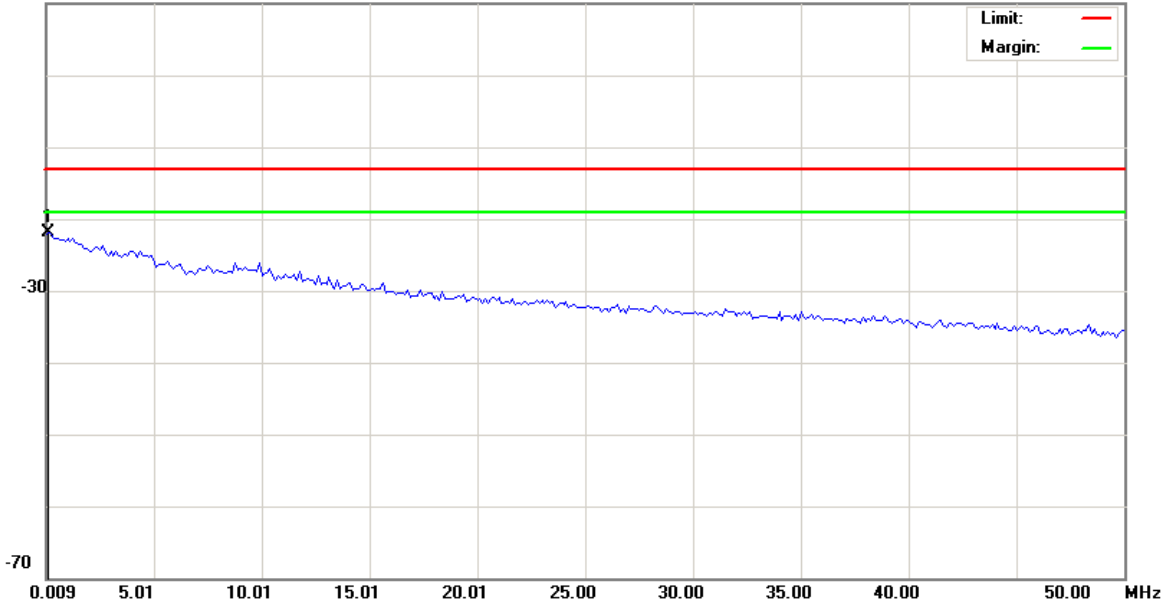
File:Raymond103(CH4233)

Data :#1

Date: 2008/4/28

Time: 下午 01:56:03

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4233(846.5MHz)

加Notch(3TNF-800)

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	*	0.1340	-52.18	30.38	-21.80	-13.00	-8.80	peak		

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

●Reference Only

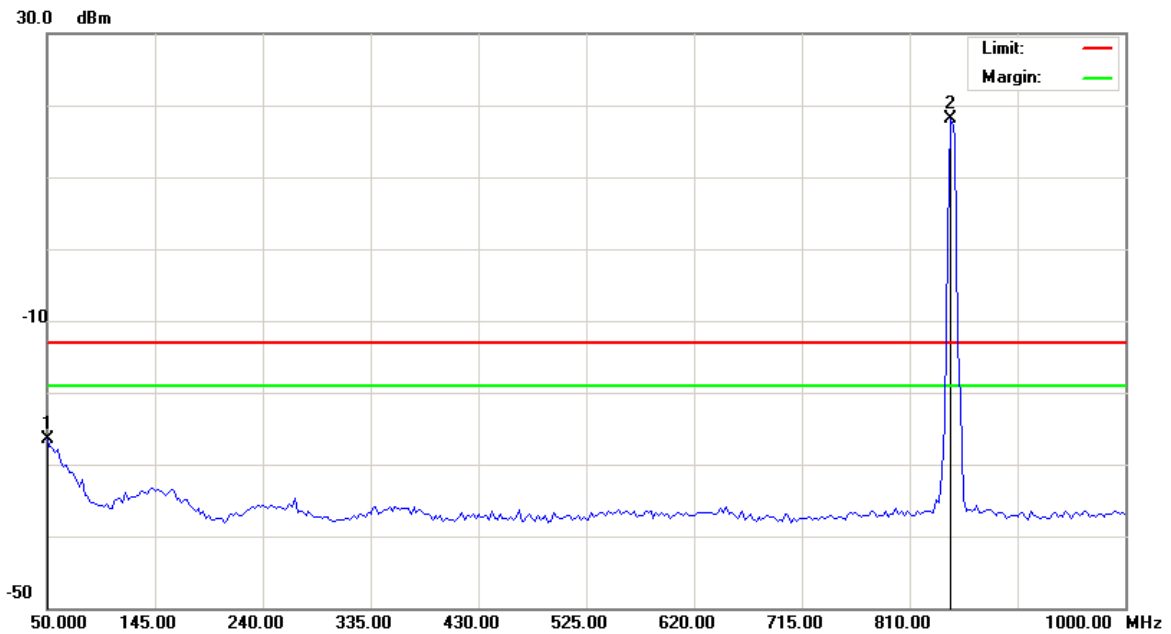


File:Raymond103(CH4233)

Data :#2

Date: 2008/4/28

Time: 下午 01:56:24



Site site#1

Polarization: Conducted po

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4233(846.5MHz)

加Notch(3TNF-800)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-41.28	14.69	-26.59	-13.00	-13.59	peak		
2	*	845.6250	14.20	3.99	18.19	-13.00	31.19	peak		Main frequency

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

●Reference Only



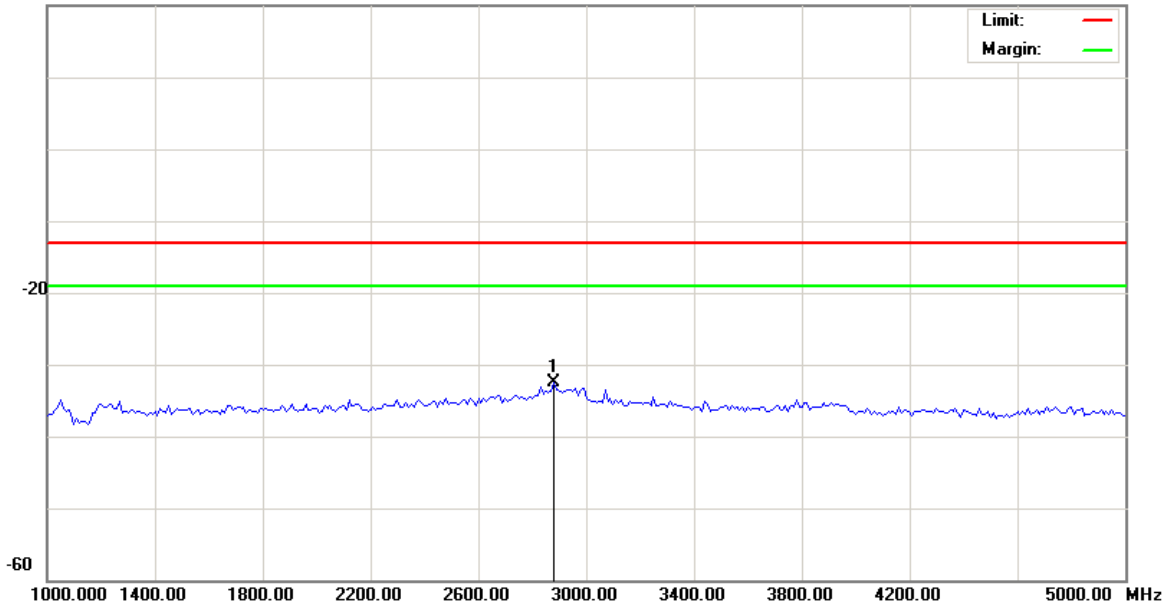
File :Raymond103(CH4233)

Data :#3

Date: 2008/4/28

Time: 下午 02:46:48

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4233(846.5MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2880.000	-37.25	4.66	-32.59	-13.00	-19.59	peak		

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

●Reference Only



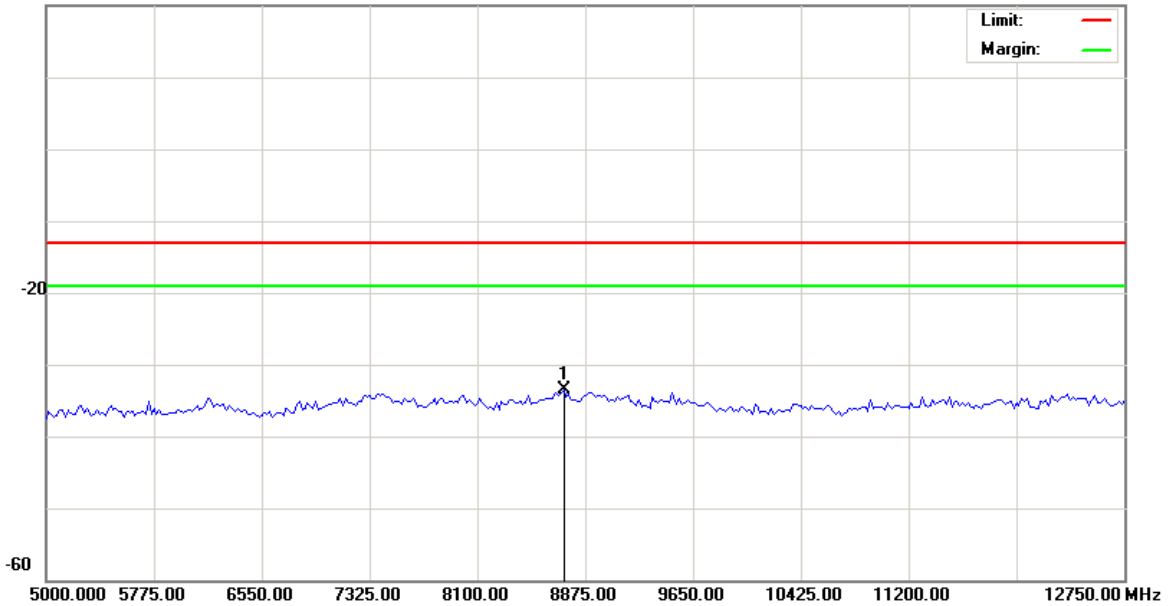
File:Raymond103(CH4233)

Data :#4

Date: 2008/4/28

Time: 下午 02:47:09

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH4233(846.5MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	8720.000	-38.75	5.18	-33.57	-13.00	-20.57	peak		

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

●Reference Only



4.5.4.4 WCDMA Band II Test Result

Applicant : Inventec Corporation

Model No : Velocity 103

EUT : PDA PHONE

Test Mode : WCDMA Band II (Low CH9262 / Middle CH9400 / High CH 9536)

Test Date : 04/28/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)

(Auto calculate in spectrum analyzer)



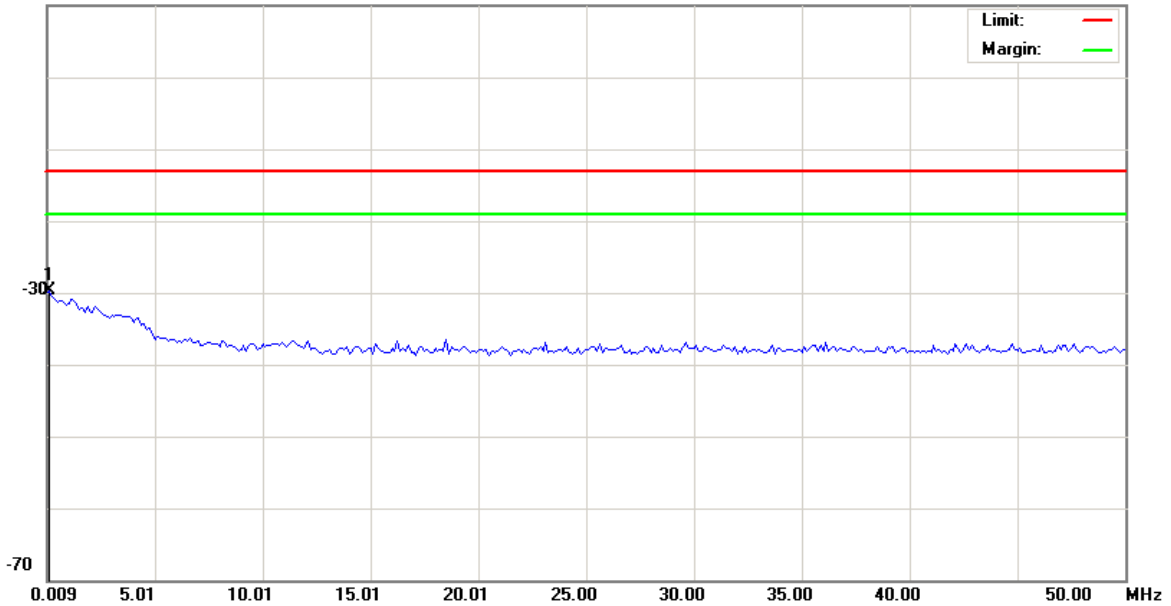
File:Raymond103(CH9262)

Data :#1

Date: 2008/4/28

Time: 上午 11:57:53

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9262(9662MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.1340	-42.15	12.48	-29.67	-13.00	-16.67	peak		

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

●Reference Only



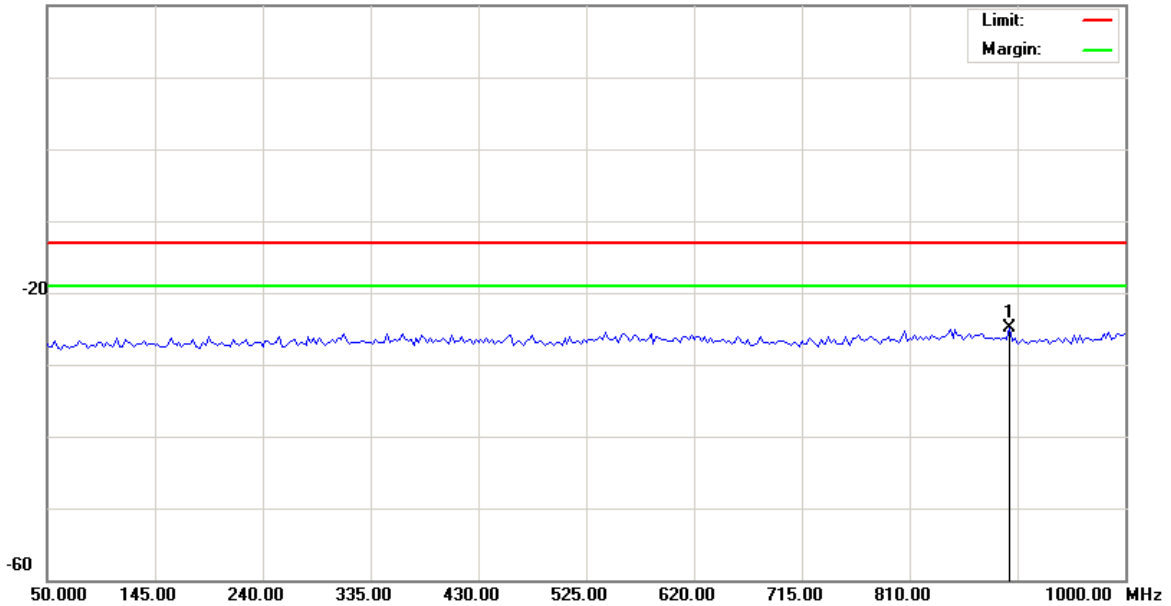
File:Raymond103(CH9262)

Data :#2

Date: 2008/4/28

Time: 上午 11:58:14

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9262(9662MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	897.8750	-38.18	13.25	-24.93	-13.00	-11.93	peak		

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

●Reference Only

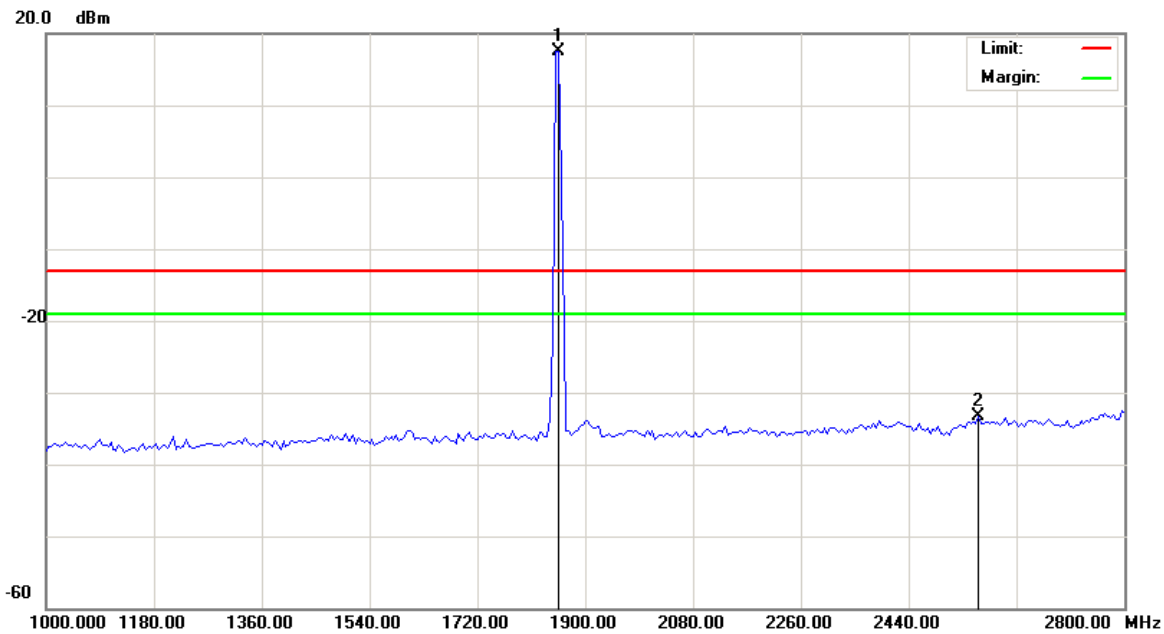


File :Raymond103(CH9262)

Data :#3

Date: 2008/4/28

Time: 下午 02:20:10



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9262(9662MHz)

加Notch(5TNF-1700)

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	*	1855.000	13.27	4.29	17.56	-13.00	30.56	peak		Main frequency
2		2557.000	-38.60	5.27	-33.33	-13.00	-20.33	peak		

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

●Reference Only



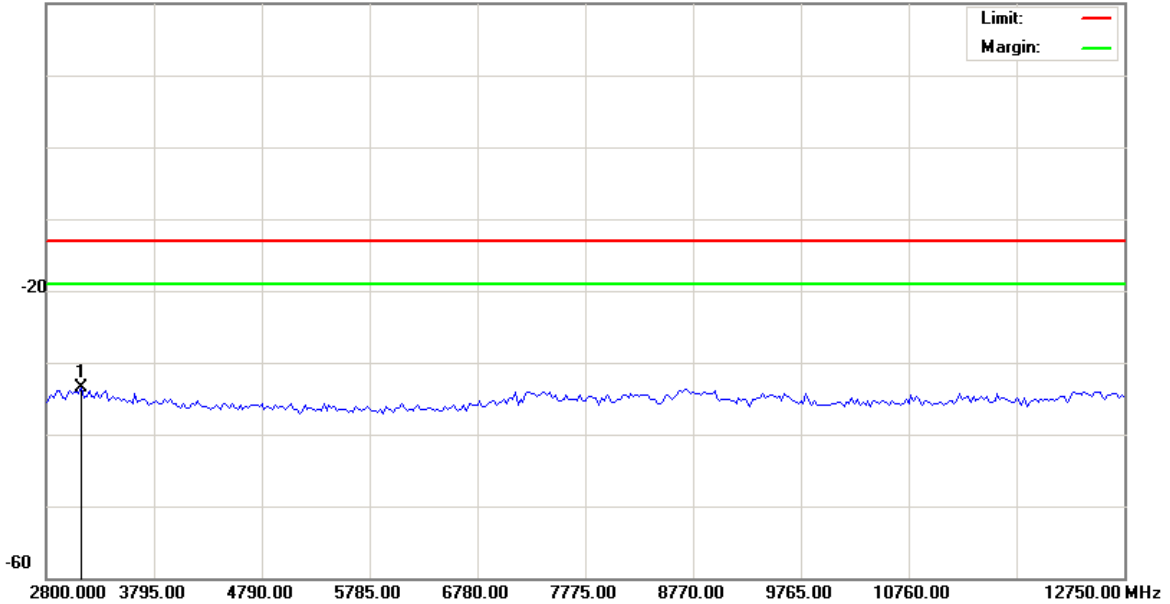
File :Raymond103(CH9262)

Data :#4

Date: 2008/4/28

Time: 下午 03:02:23

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9262(9662MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	3123.375	-38.82	5.30	-33.52	-13.00	-20.52	peak		

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

●Reference Only



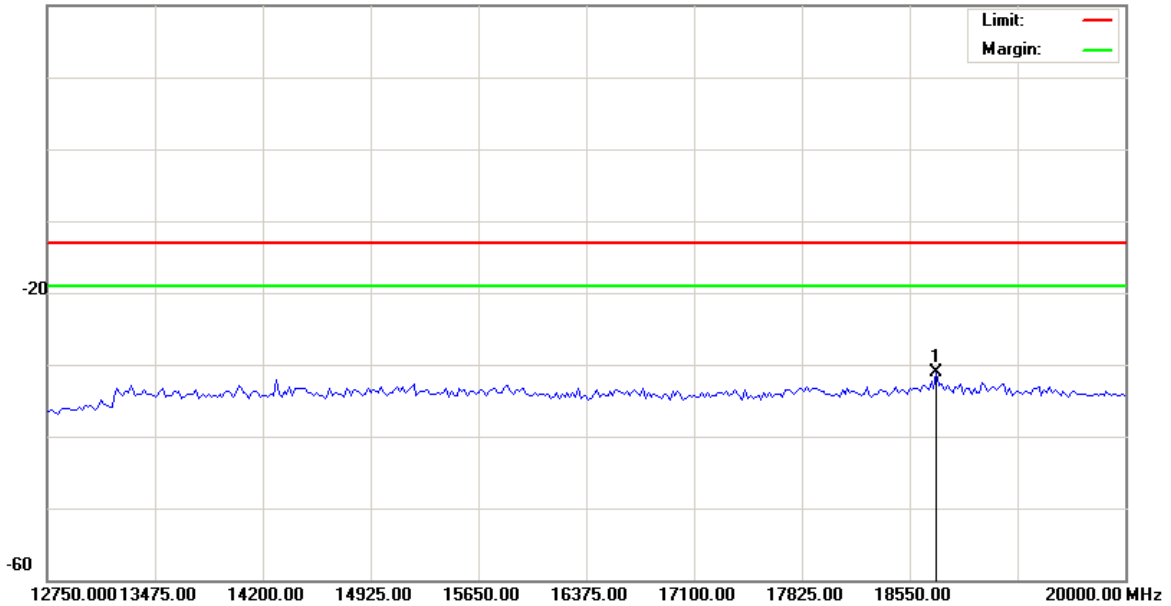
File :Raymond103(CH9262)

Data :#5

Date: 2008/4/28

Time: 下午 03:02:44

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9262(9662MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	18731.25	-38.25	7.08	-31.17	-13.00	-18.17	peak		

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

●Reference Only



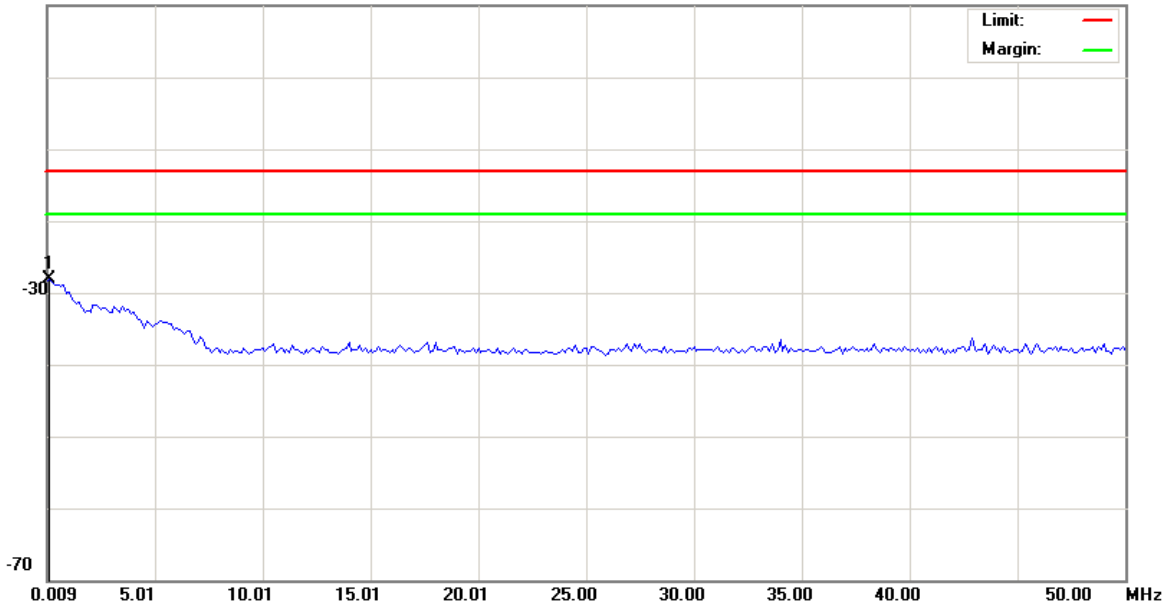
File:Raymond103(CH9400)

Data :#1

Date: 2008/4/28

Time: 下午 12:00:04

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9400(9800MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.1340	-40.65	12.48	-28.17	-13.00	-15.17	peak		

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

●Reference Only



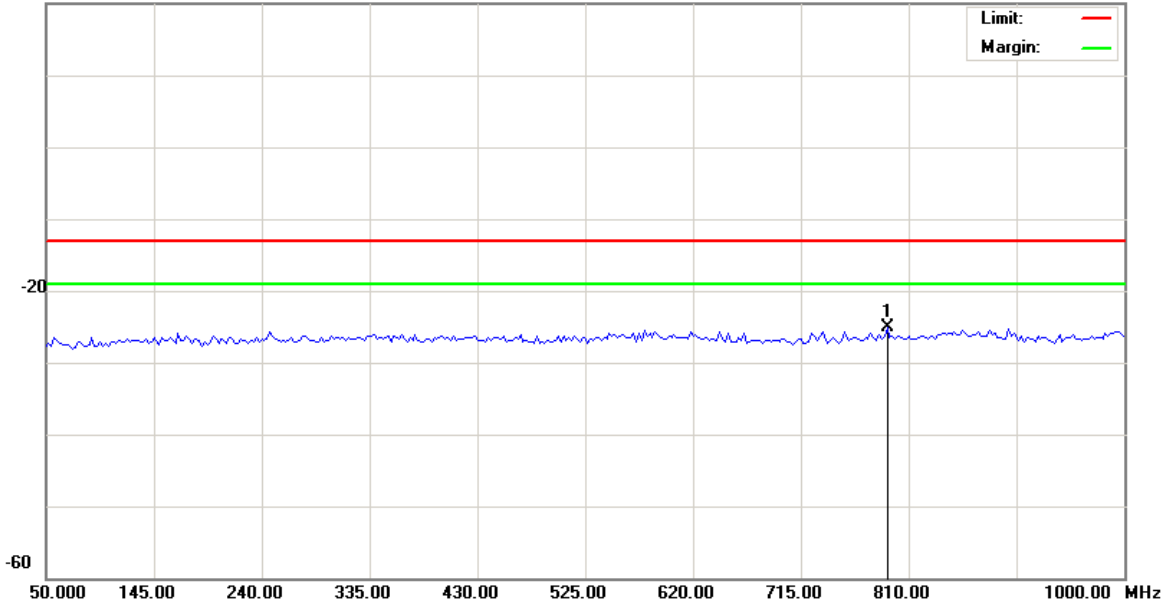
File:Raymond103(CH9400)

Data :#2

Date: 2008/4/28

Time: 下午 12:00:25

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9400(9800MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	791.0000	-38.34	13.15	-25.19	-13.00	-12.19	peak		

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

●Reference Only

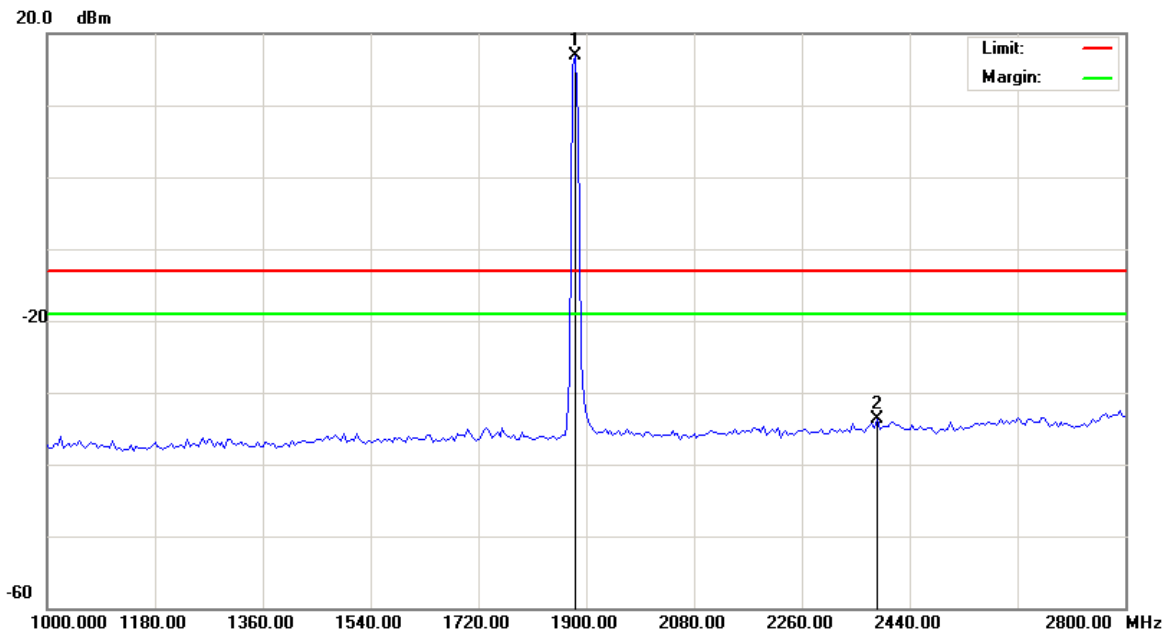


File:Raymond103(CH9400)

Data :#3

Date: 2008/4/28

Time: 下午 02:22:48



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9400(9800MHz)

加Notch(5TNF-1700)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1882.000	12.17	4.83	17.00	-13.00	30.00	peak		Main frequency
2		2386.000	-38.76	4.99	-33.77	-13.00	-20.77	peak		

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

●Reference Only



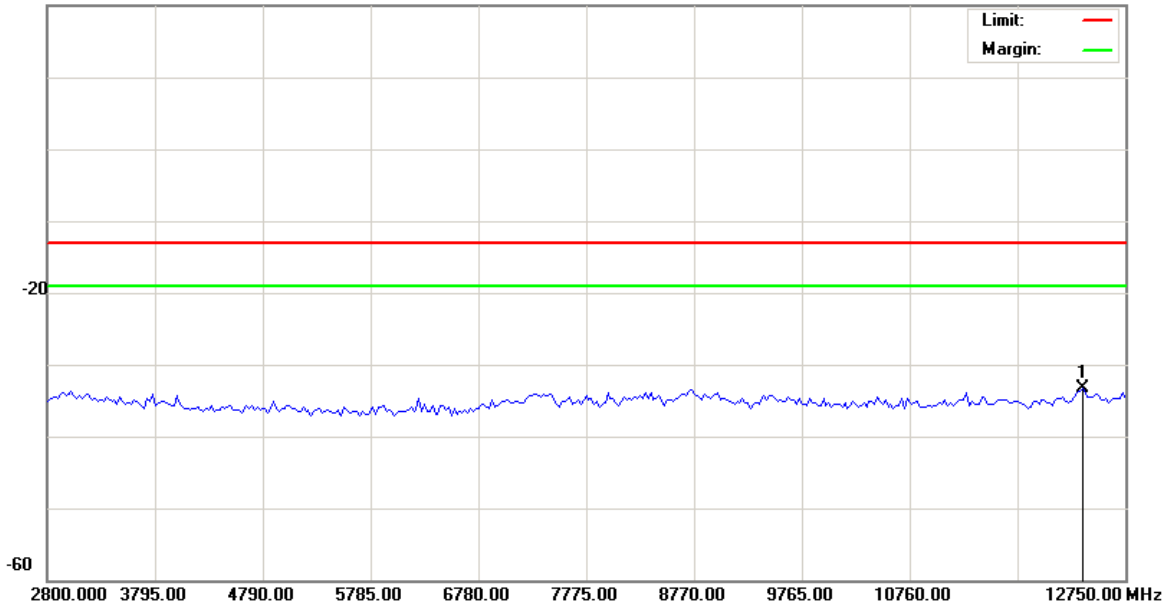
File:Raymond103(CH9400)

Data :#4

Date: 2008/4/28

Time: 下午 03:04:38

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9400(9800MHz)

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	*	12352.00	-38.43	5.17	-33.26	-13.00	-20.26	peak		

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

●Reference Only



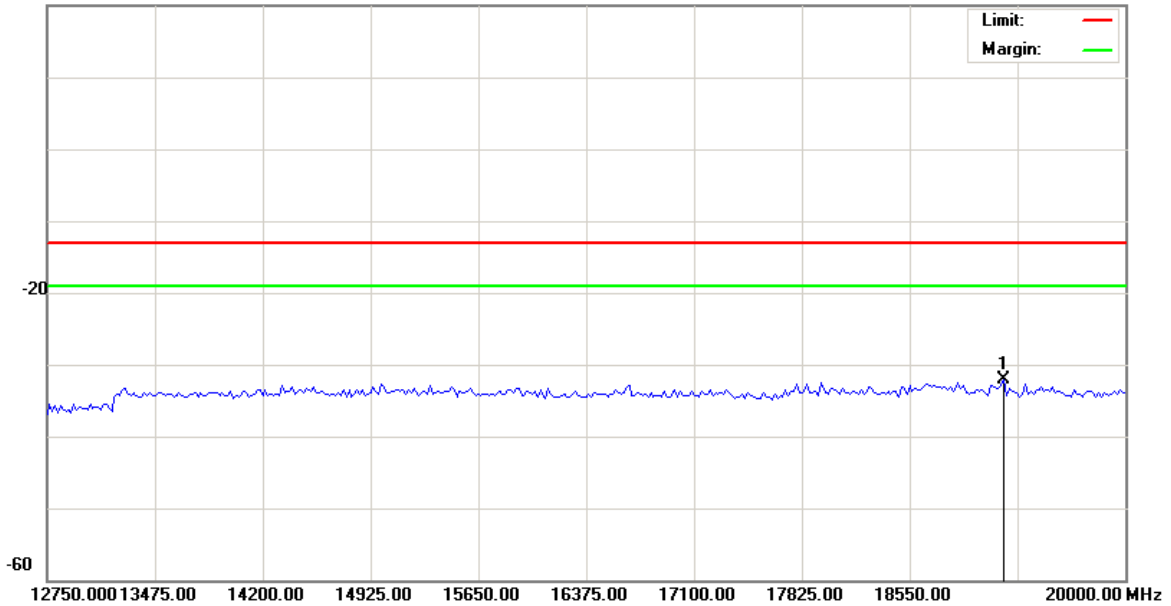
File:Raymond103(CH9400)

Data :#5

Date: 2008/4/28

Time: 下午 03:04:59

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9400(9800MHz)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19184.37	-39.40	7.21	-32.19	-13.00	-19.19	peak		

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

●Reference Only



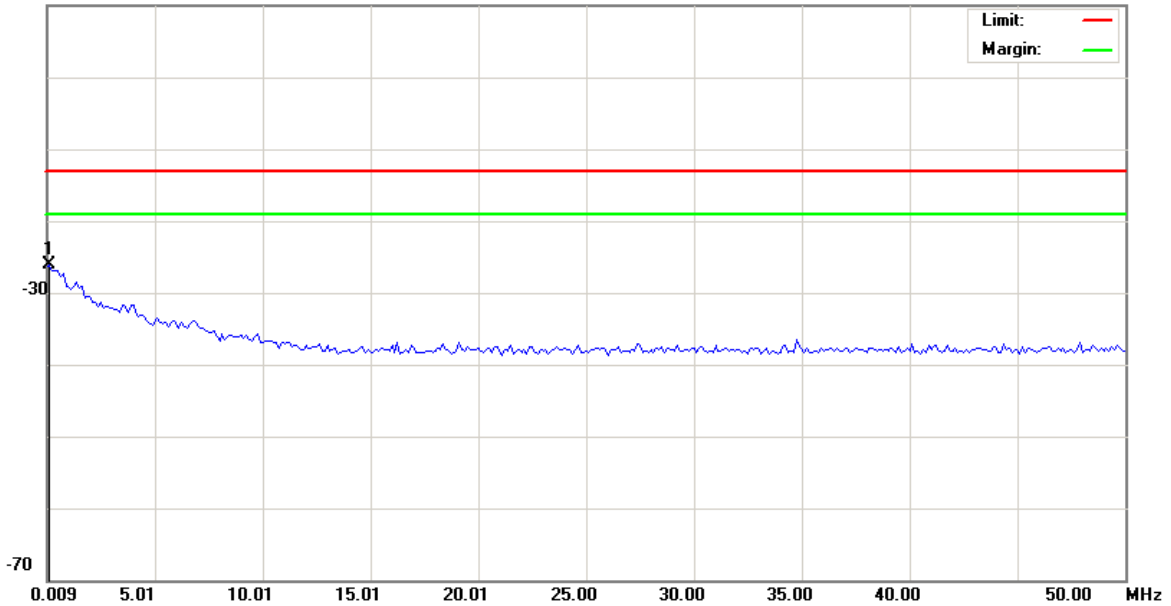
File:Raymond103(CH9538)

Data :#1

Date: 2008/4/28

Time: 下午 12:03:31

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9538(1907.6MHz)

加10db衰减器

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	0.1340	-38.65	12.48	-26.17	-13.00	-13.17	peak		

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

●Reference Only



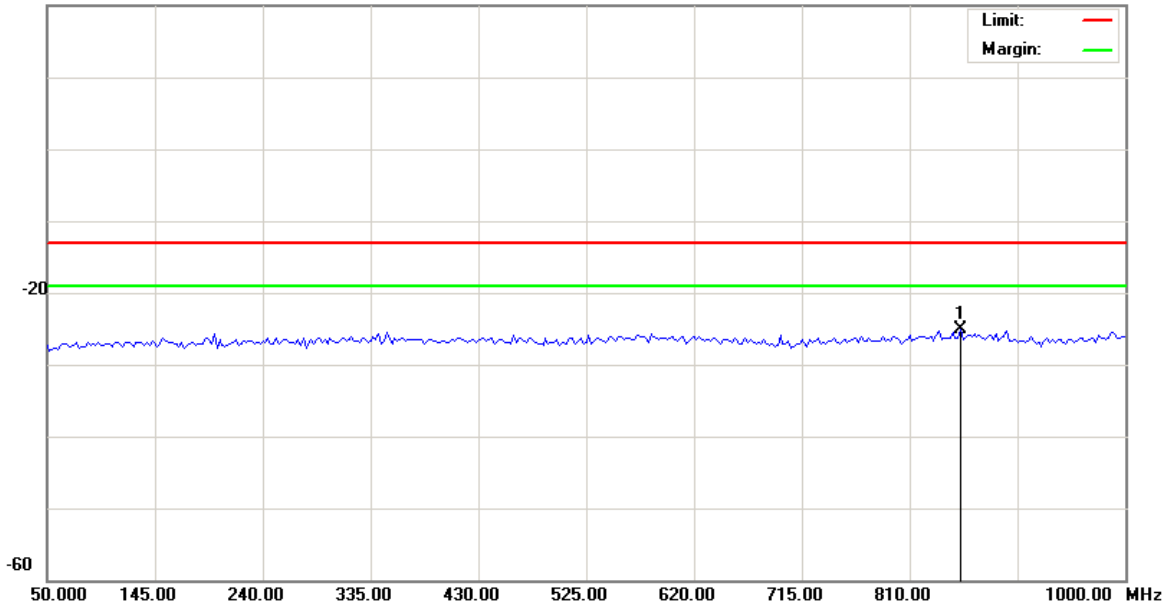
File:Raymond103(CH9538)

Data :#2

Date: 2008/4/28

Time: 下午 12:03:52

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9538(1907.6MHz)

加10db衰减器

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	*	855.1250	-38.42	13.23	-25.19	-13.00	-12.19	peak		

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

●Reference Only

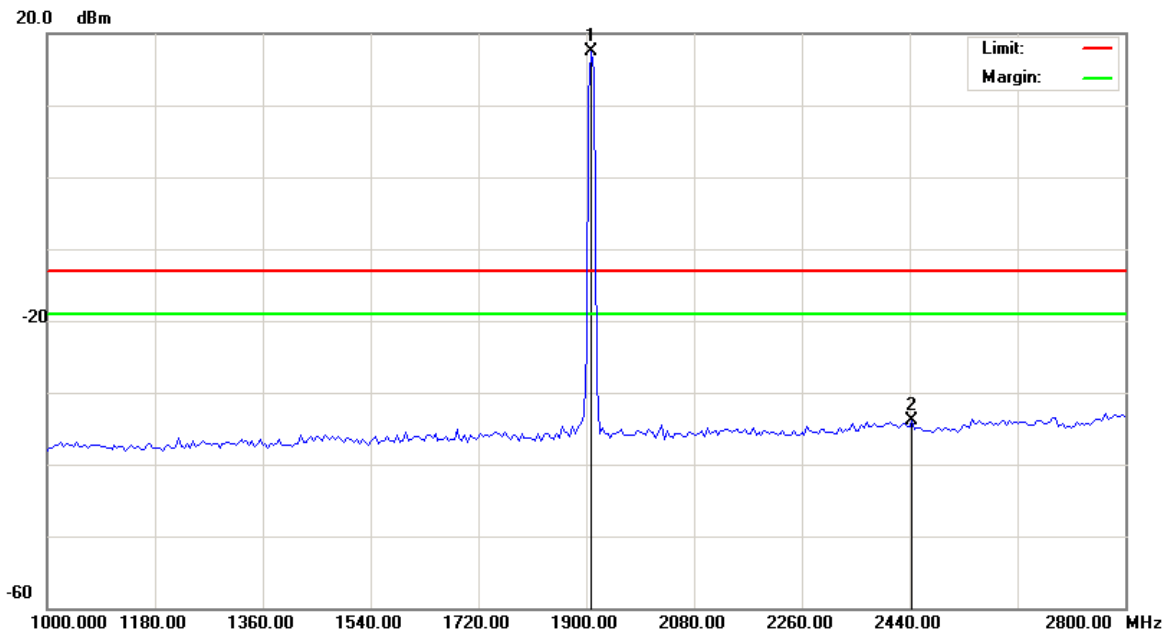


File:Raymond103(CH9538)

Data :#3

Date: 2008/4/28

Time: 下午 02:25:33



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9538(1907.6MHz)

加Notch(5TNF-1700)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1909.000	11.71	5.80	17.51	-13.00	30.51	peak		Main frequency
2		2444.500	-38.87	4.97	-33.90	-13.00	-20.90	peak		

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

●Reference Only



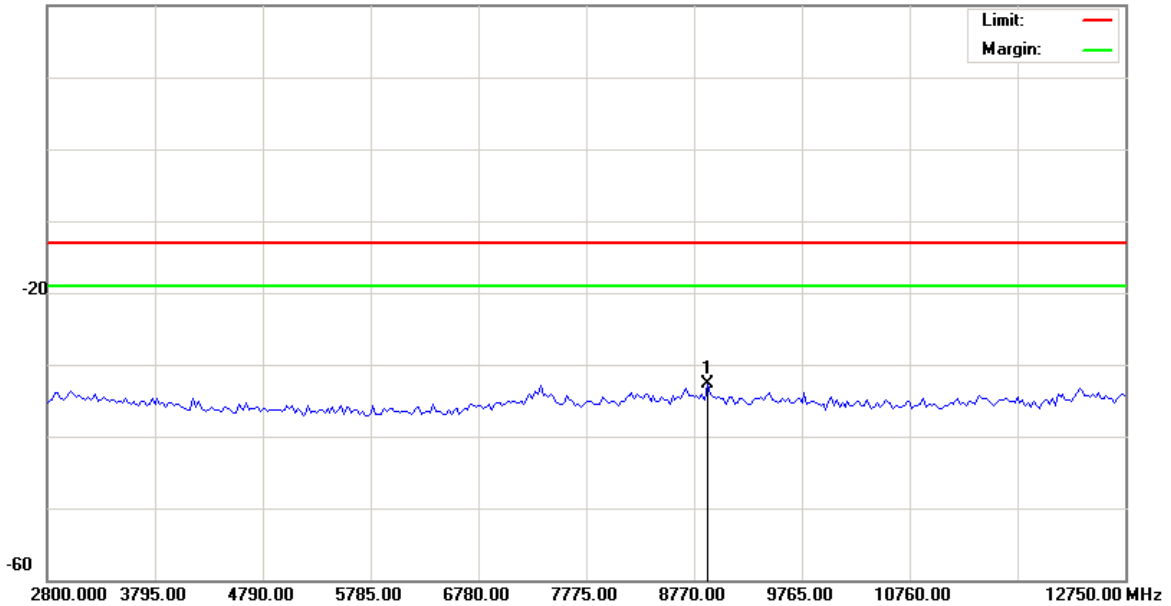
File :Raymond103(CH9538)

Data :#4

Date: 2008/4/28

Time: 下午 03:05:41

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9538(1907.6MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	8894.375	-38.15	5.46	-32.69	-13.00	-19.69	peak		

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

●Reference Only



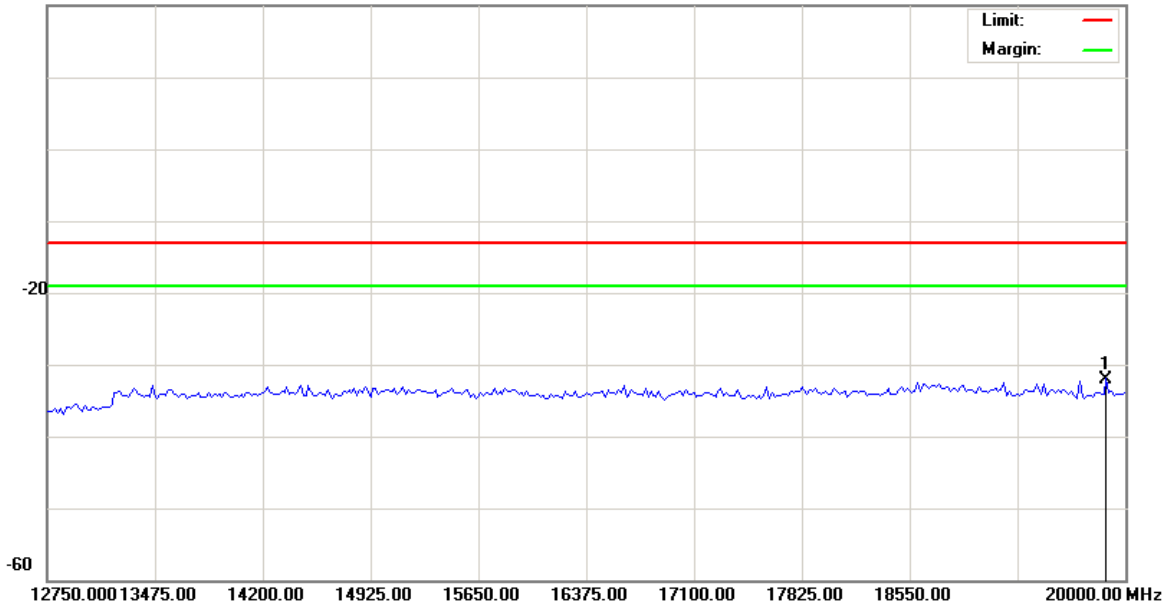
File:Raymond103(CH9538)

Data :#5

Date: 2008/4/28

Time: 下午 03:06:03

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

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

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: Raymond103

Mode:

Note: CH9538(1907.6MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	19873.12	-39.40	7.40	-32.00	-13.00	-19.00	peak		

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

●Reference Only



4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-A .

4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

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

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

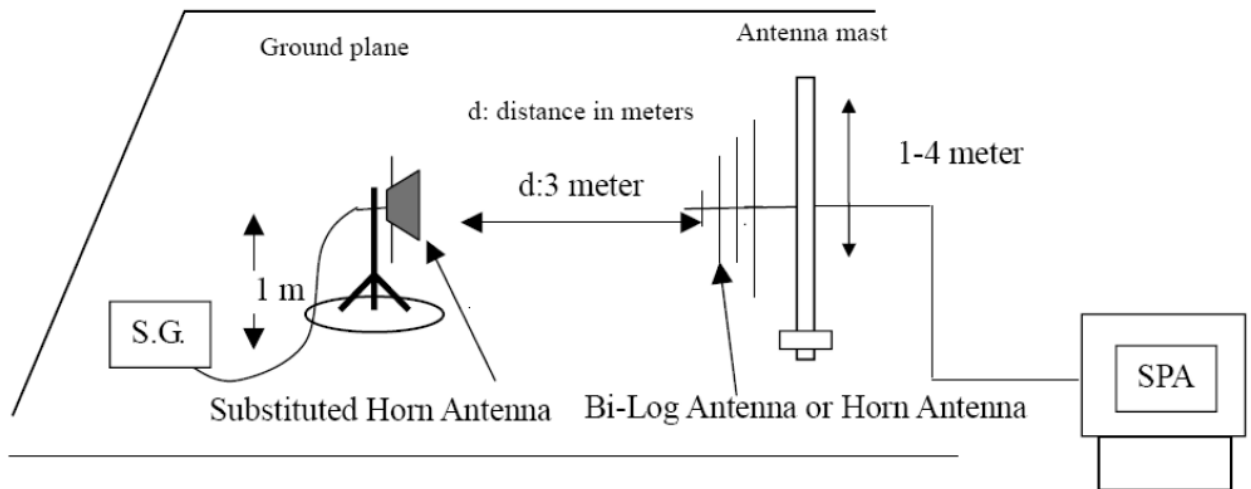
The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

Units	dBm
Resolution Bandwidth	1 MHz
Video Bandwidth	Auto
Sweep Time	Auto

4.6.3 Test Setup Layout

Substituted Method Test Set-up





4.6.4 Test Result

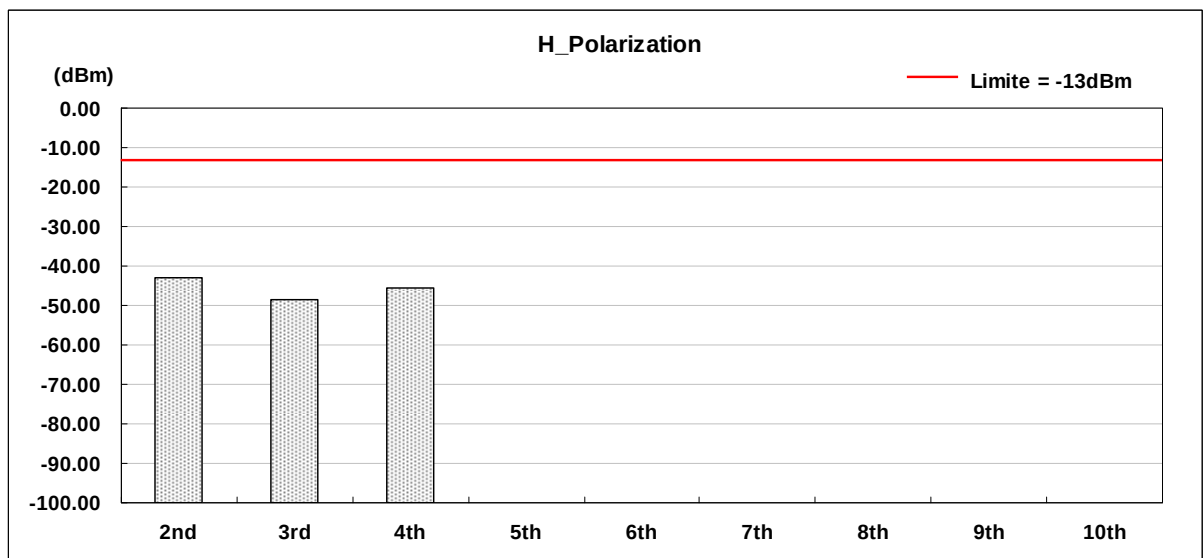
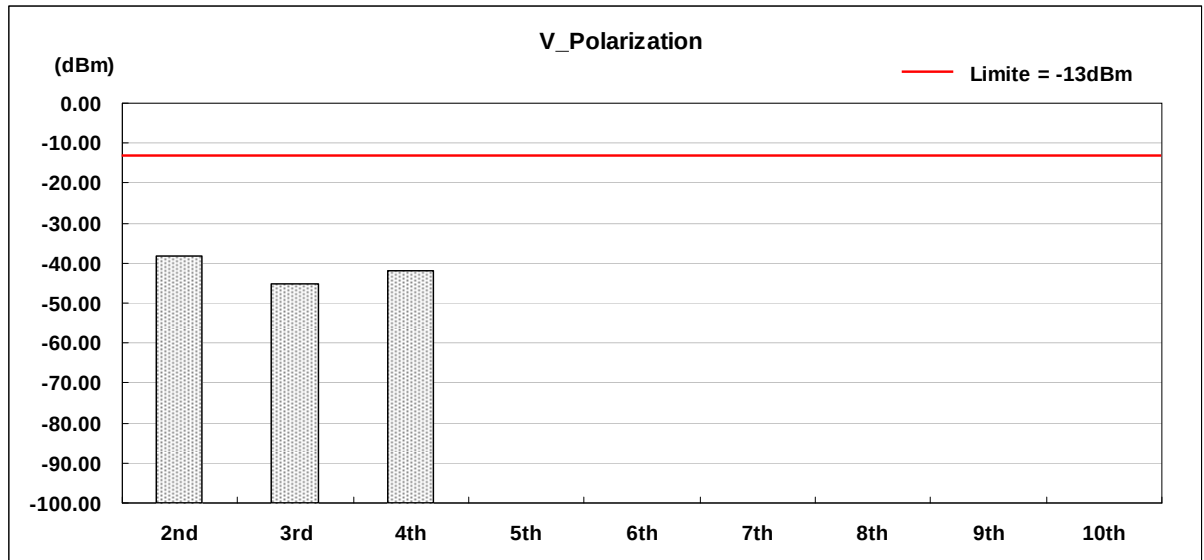
4.6.4.1 GSM 850 Test Result

Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : GSM 850 (Low CH128)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1648.8	V	-13	-48.50	10.72	0.56	-38.34
3rd	2473.2	V	-13	-55.16	10.66	0.62	-45.12
4th	3297.6	V	-13	-52.03	10.78	0.74	-41.99
5th	4122.0	V	-13	*	*	*	
6th	4946.4	V	-13	*	*	*	
7th	5770.8	V	-13	*	*	*	
8th	6595.2	V	-13	*	*	*	
9th	7419.6	V	-13	*	*	*	
10th	8244.0	V	-13	*	*	*	
2nd	1648.8	H	-13	-53.23	10.72	0.56	-43.07
3rd	2473.2	H	-13	-58.61	10.66	0.62	-48.57
4th	3297.6	H	-13	-55.74	10.78	0.74	-45.70
5th	4122.0	H	-13	*	*	*	
6th	4946.4	H	-13	*	*	*	
7th	5770.8	H	-13	*	*	*	
8th	6595.2	H	-13	*	*	*	
9th	7419.6	H	-13	*	*	*	
10th	8244.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



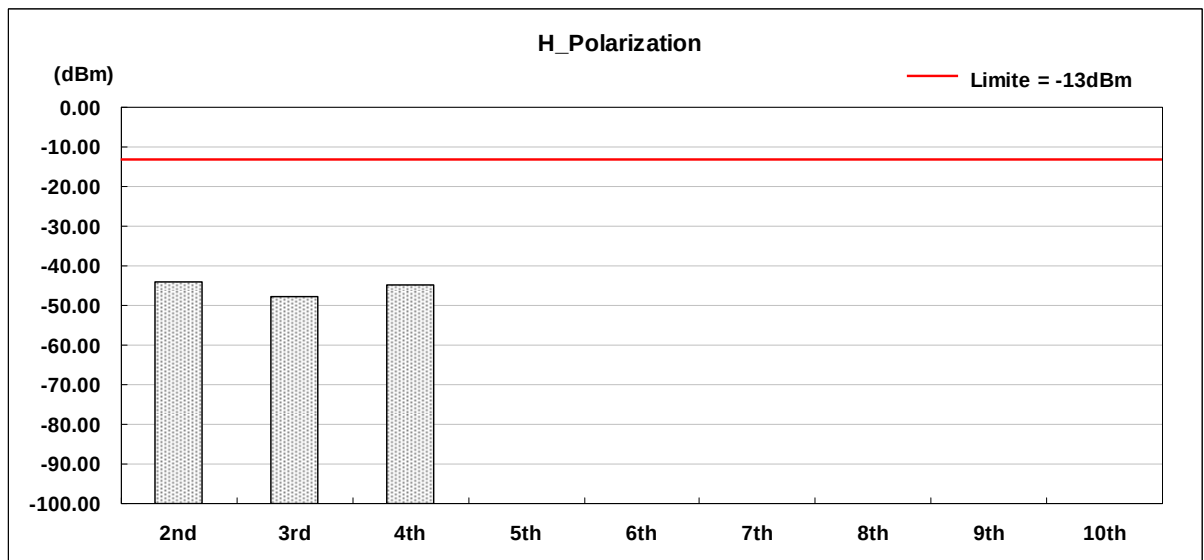
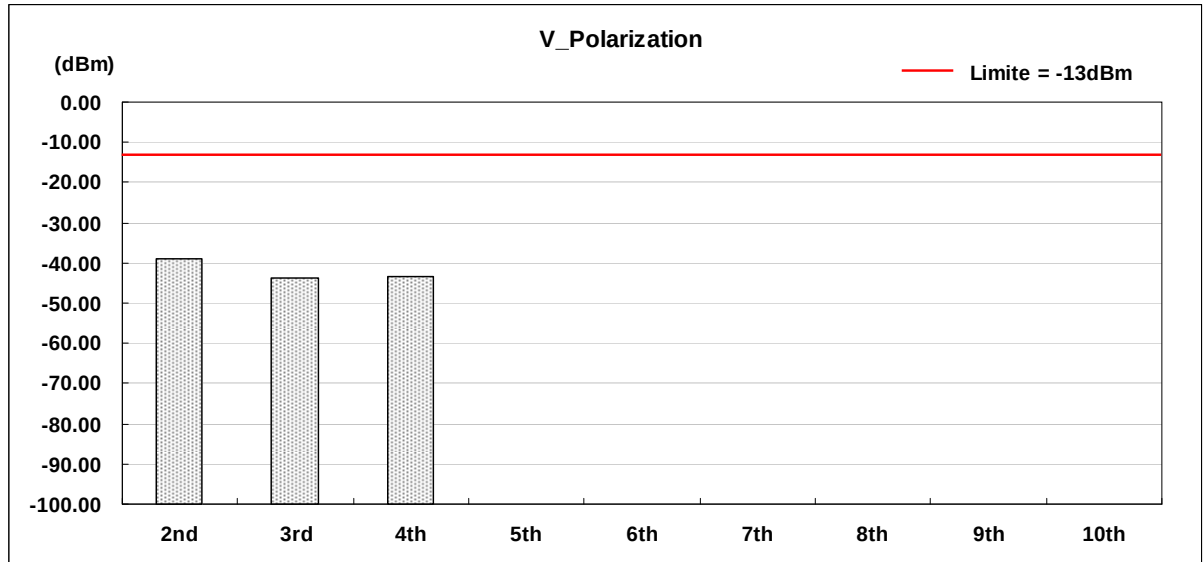


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : GSM 850 (Middle CH190)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1673.2	V	-13	-49.24	10.72	0.56	-39.08
3rd	2509.8	V	-13	-53.88	10.66	0.62	-43.84
4th	3346.4	V	-13	-53.29	10.78	0.74	-43.25
5th	4183.0	V	-13	*	*	*	
6th	5019.6	V	-13	*	*	*	
7th	5856.2	V	-13	*	*	*	
8th	6692.8	V	-13	*	*	*	
9th	7529.4	V	-13	*	*	*	
10th	8366.0	V	-13	*	*	*	
2nd	1673.2	H	-13	-54.20	10.72	0.56	-44.04
3rd	2509.8	H	-13	-57.73	10.66	0.62	-47.69
4th	3346.4	H	-13	-54.89	10.78	0.74	-44.85
5th	4183.0	H	-13	*	*	*	
6th	5019.6	H	-13	*	*	*	
7th	5856.2	H	-13	*	*	*	
8th	6692.8	H	-13	*	*	*	
9th	7529.4	H	-13	*	*	*	
10th	8366.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



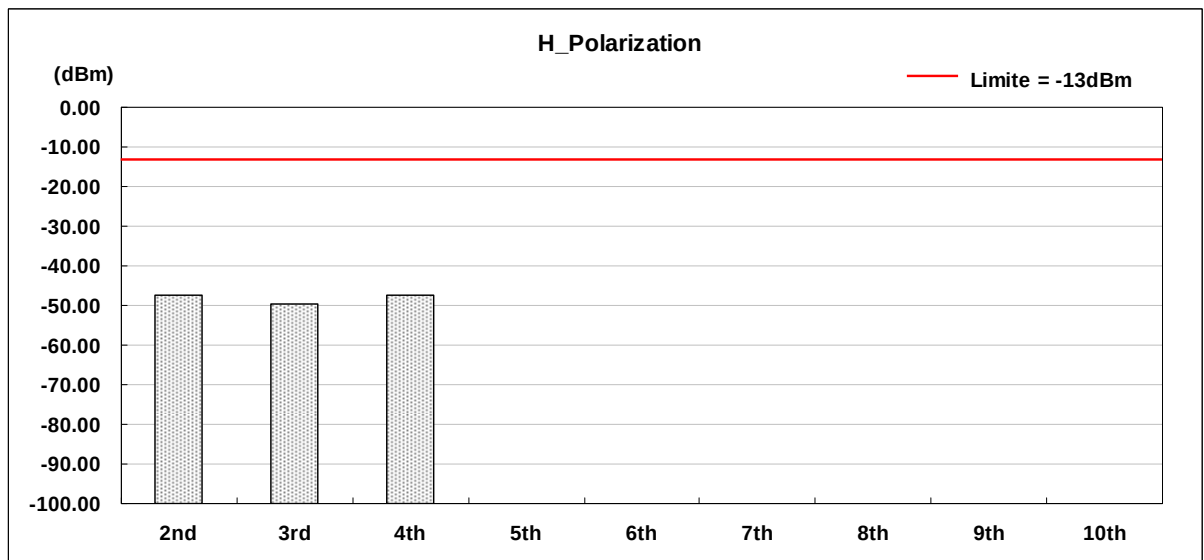
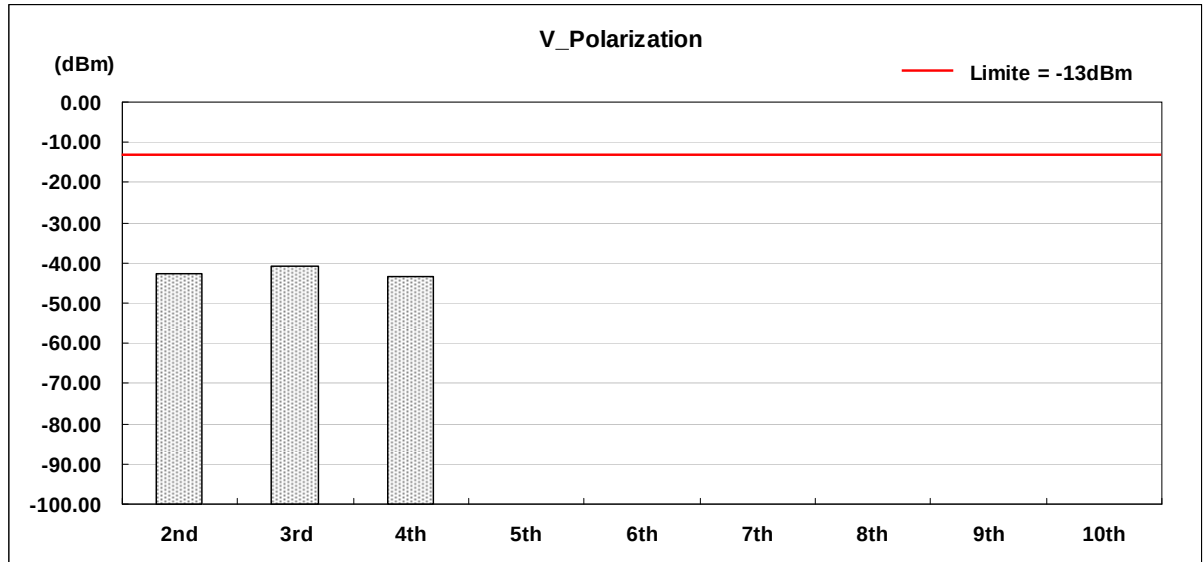


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : GSM 850 (High CH 251)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1697.6	V	-13	-52.80	10.72	0.56	-42.64
3rd	2546.4	V	-13	-50.91	10.66	0.62	-40.87
4th	3395.2	V	-13	-53.57	10.78	0.74	-43.53
5th	4244.0	V	-13	*	*	*	
6th	5092.8	V	-13	*	*	*	
7th	5941.6	V	-13	*	*	*	
8th	6790.4	V	-13	*	*	*	
9th	7639.2	V	-13	*	*	*	
10th	8488.0	V	-13	*	*	*	
2nd	1697.6	H	-13	-57.57	10.72	0.56	-47.41
3rd	2546.4	H	-13	-59.56	10.66	0.62	-49.52
4th	3395.2	H	-13	-57.62	10.78	0.74	-47.58
5th	4244.0	H	-13	*	*	*	
6th	5092.8	H	-13	*	*	*	
7th	5941.6	H	-13	*	*	*	
8th	6790.4	H	-13	*	*	*	
9th	7639.2	H	-13	*	*	*	
10th	8488.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$





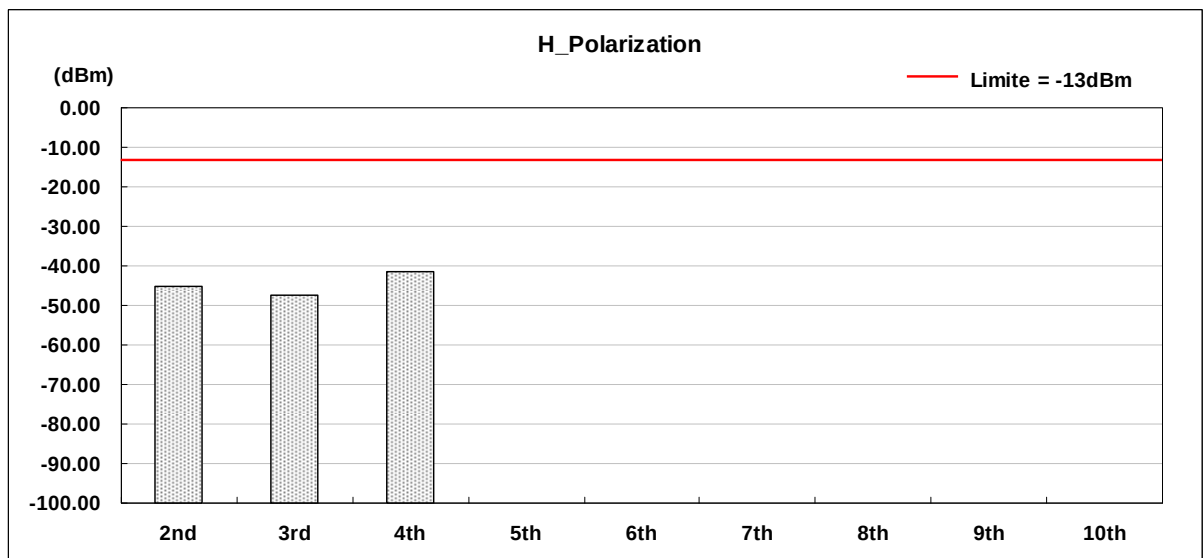
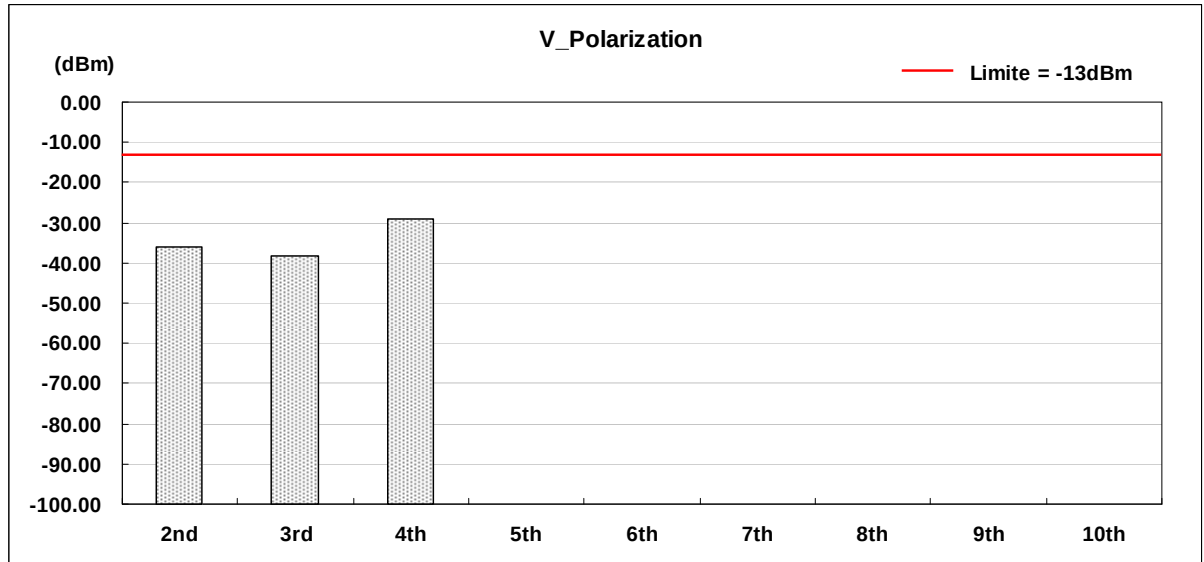
4.6.4.2 PCS 1900 Test Result

Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : PCS 1900 (Low CH512)
 Test Date : 02/01/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3700.4	V	-13	-46.28	10.72	0.56	-36.12
3rd	5550.6	V	-13	-48.20	10.66	0.62	-38.16
4th	7400.8	V	-13	-39.19	10.78	0.74	-29.15
5th	9251.0	V	-13	*	*	*	
6th	11101.2	V	-13	*	*	*	
7th	12951.4	V	-13	*	*	*	
8th	14801.6	V	-13	*	*	*	
9th	16651.8	V	-13	*	*	*	
10th	18502.0	V	-13	*	*	*	
2nd	3700.4	H	-13	-55.39	10.72	0.56	-45.23
3rd	5550.6	H	-13	-57.59	10.66	0.62	-47.55
4th	7400.8	H	-13	-51.47	10.78	0.74	-41.43
5th	9251.0	H	-13	*	*	*	
6th	11101.2	H	-13	*	*	*	
7th	12951.4	H	-13	*	*	*	
8th	14801.6	H	-13	*	*	*	
9th	16651.8	H	-13	*	*	*	
10th	18502.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



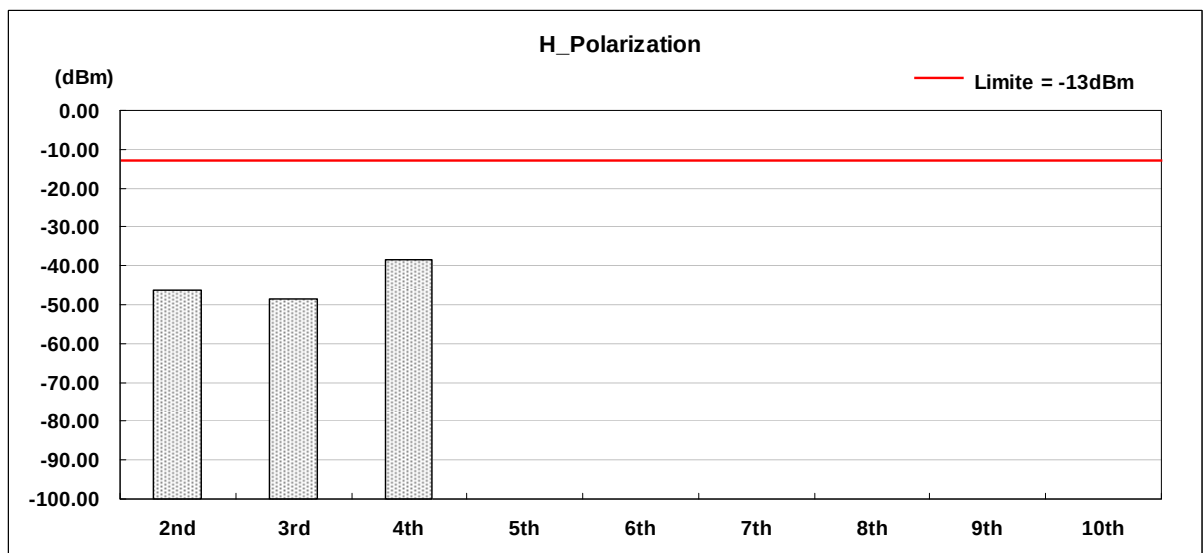
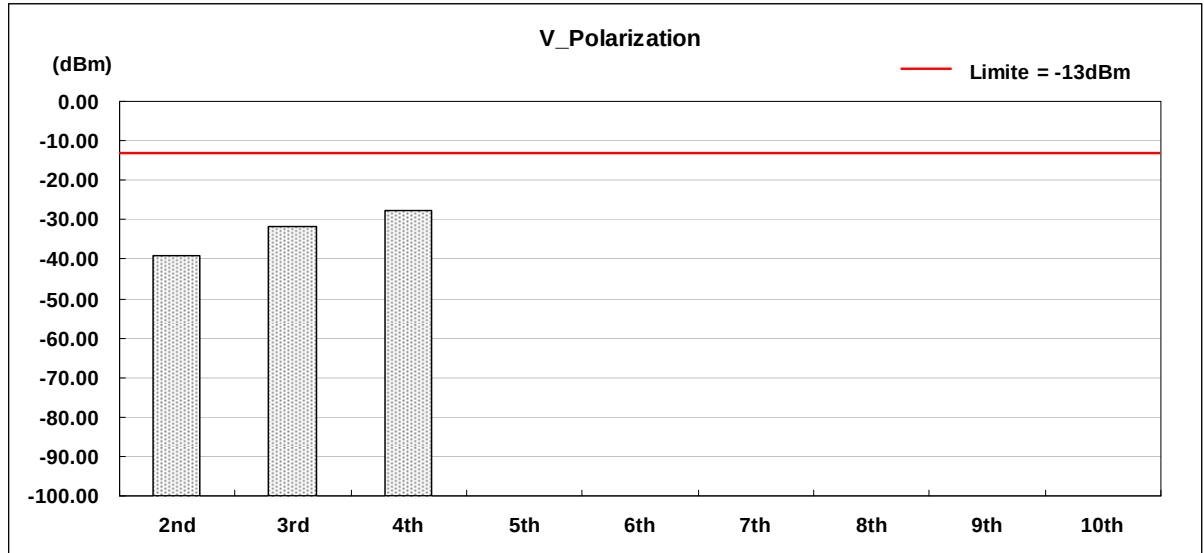


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : PCS 1900 (Middle CH661)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3760.0	V	-13	-49.44	10.72	0.56	-39.28
3rd	5640.0	V	-13	-41.88	10.66	0.62	-31.84
4th	7520.0	V	-13	-37.74	10.78	0.74	-27.70
5th	9400.0	V	-13	*	*	*	
6th	11280.0	V	-13	*	*	*	
7th	13160.0	V	-13	*	*	*	
8th	15040.0	V	-13	*	*	*	
9th	16920.0	V	-13	*	*	*	
10th	18800.0	V	-13	*	*	*	
2nd	3760.0	H	-13	-56.25	10.72	0.56	-46.09
3rd	5640.0	H	-13	-58.73	10.66	0.62	-48.69
4th	7520.0	H	-13	-48.36	10.78	0.74	-38.32
5th	9400.0	H	-13	*	*	*	
6th	11280.0	H	-13	*	*	*	
7th	13160.0	H	-13	*	*	*	
8th	15040.0	H	-13	*	*	*	
9th	16920.0	H	-13	*	*	*	
10th	18800.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



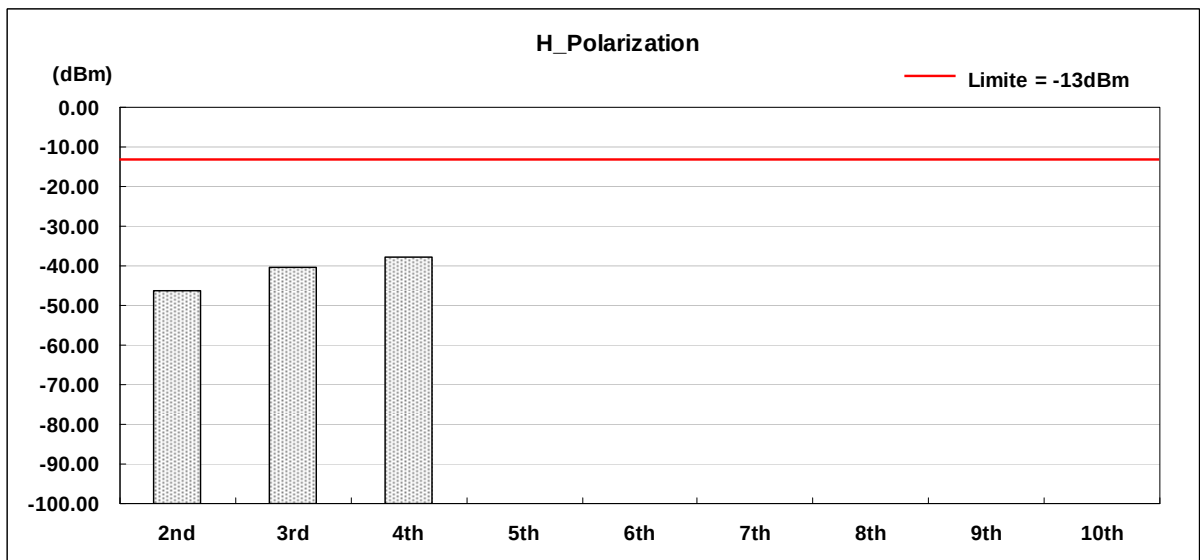
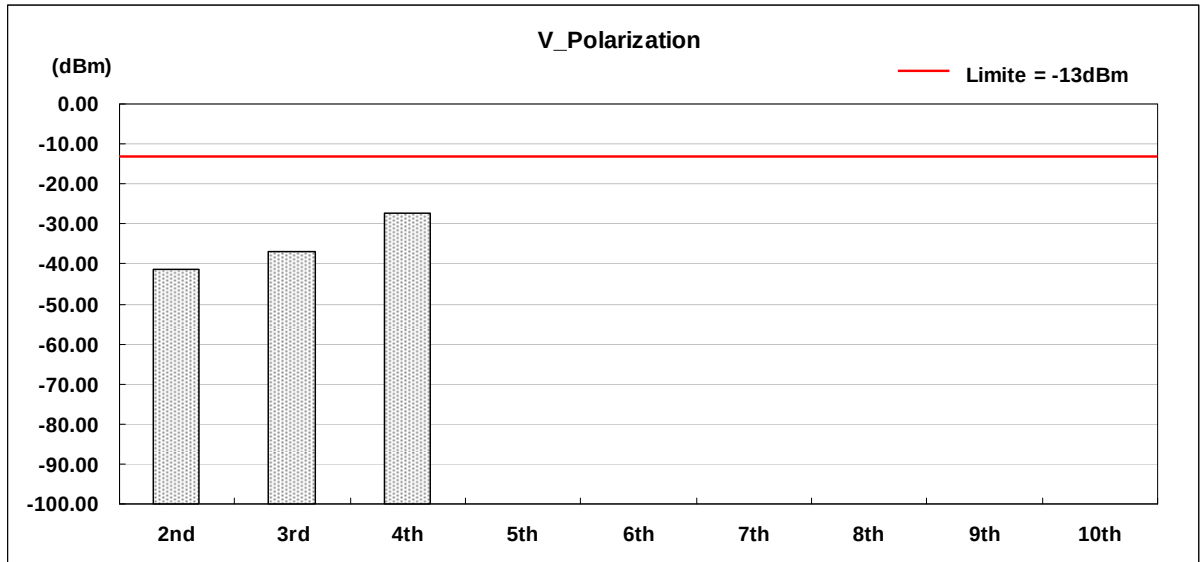


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : PCS 1900 (High CH 810)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3819.6	V	-13	-51.32	10.72	0.56	-41.16
3rd	5729.4	V	-13	-46.86	10.66	0.62	-36.82
4th	7639.2	V	-13	-37.46	10.78	0.74	-27.42
5th	9549.0	V	-13	*	*	*	
6th	11458.8	V	-13	*	*	*	
7th	13368.6	V	-13	*	*	*	
8th	15278.4	V	-13	*	*	*	
9th	17188.2	V	-13	*	*	*	
10th	19098.0	V	-13	*	*	*	
2nd	3819.6	H	-13	-56.38	10.72	0.56	-46.22
3rd	5729.4	H	-13	-50.44	10.66	0.62	-40.40
4th	7639.2	H	-13	-47.92	10.78	0.74	-37.88
5th	9549.0	H	-13	*	*	*	
6th	11458.8	H	-13	*	*	*	
7th	13368.6	H	-13	*	*	*	
8th	15278.4	H	-13	*	*	*	
9th	17188.2	H	-13	*	*	*	
10th	19098.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$





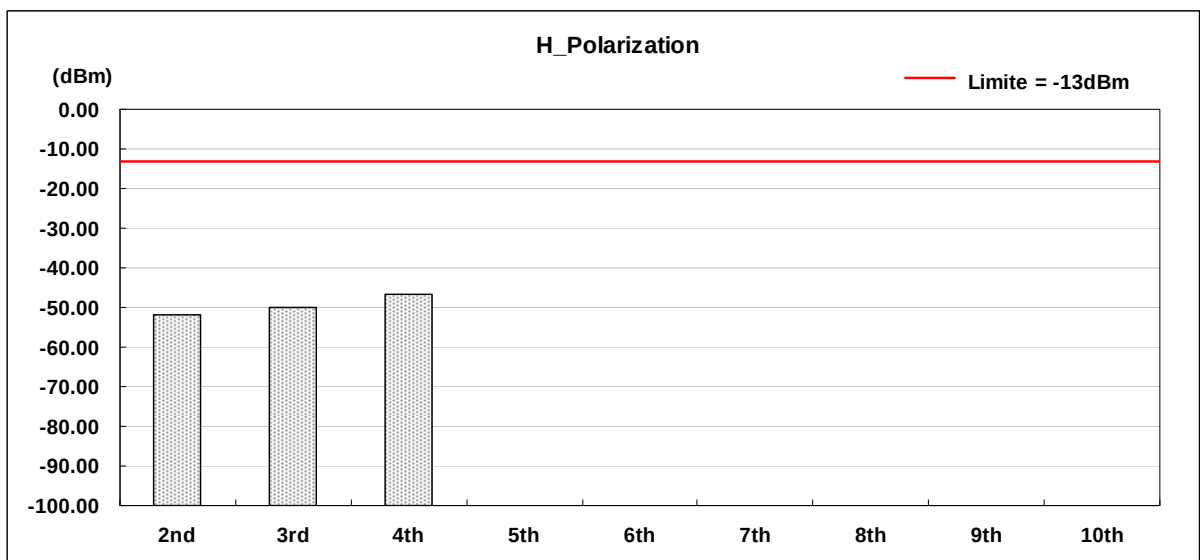
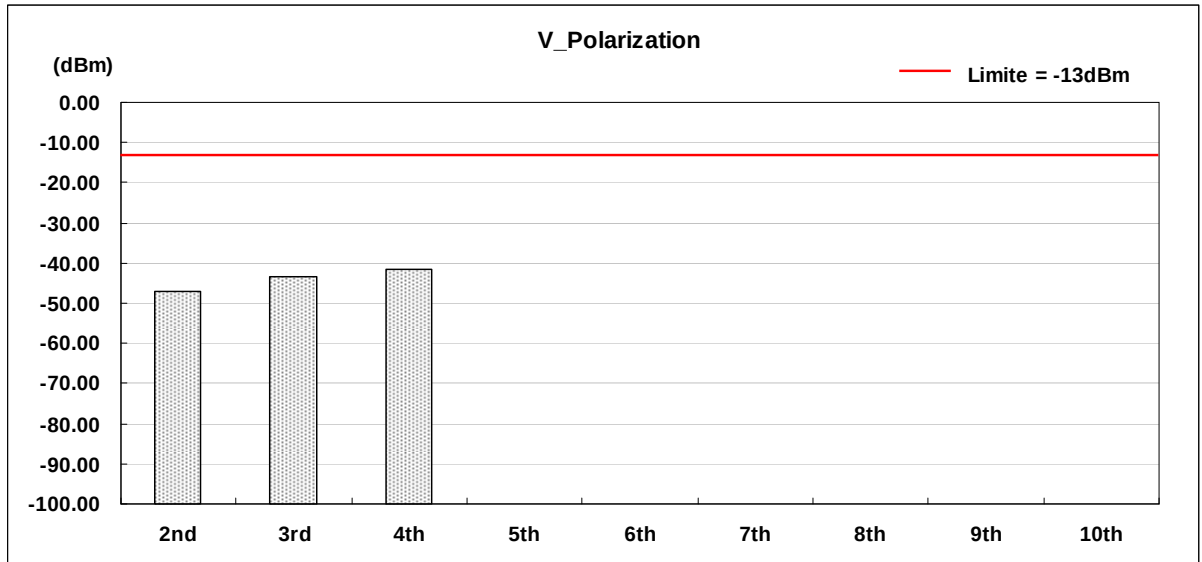
4.6.4.3 WCDMA Band V Test Result

Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band V (Low CH4132)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1652.8	V	-13	-57.18	10.74	0.59	-47.03
3rd	2479.2	V	-13	-53.57	10.68	0.63	-43.52
4th	3305.6	V	-13	-51.40	10.80	0.78	-41.38
5th	4132.0	V	-13	*	*	*	
6th	4958.4	V	-13	*	*	*	
7th	5784.8	V	-13	*	*	*	
8th	6611.2	V	-13	*	*	*	
9th	7437.6	V	-13	*	*	*	
10th	8264.0	V	-13	*	*	*	
2nd	1652.8	H	-13	-61.89	10.74	0.59	-51.74
3rd	2479.2	H	-13	-59.94	10.68	0.63	-49.89
4th	3305.6	H	-13	-56.73	10.80	0.78	-46.71
5th	4132.0	H	-13	*	*	*	
6th	4958.4	H	-13	*	*	*	
7th	5784.8	H	-13	*	*	*	
8th	6611.2	H	-13	*	*	*	
9th	7437.6	H	-13	*	*	*	
10th	8264.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



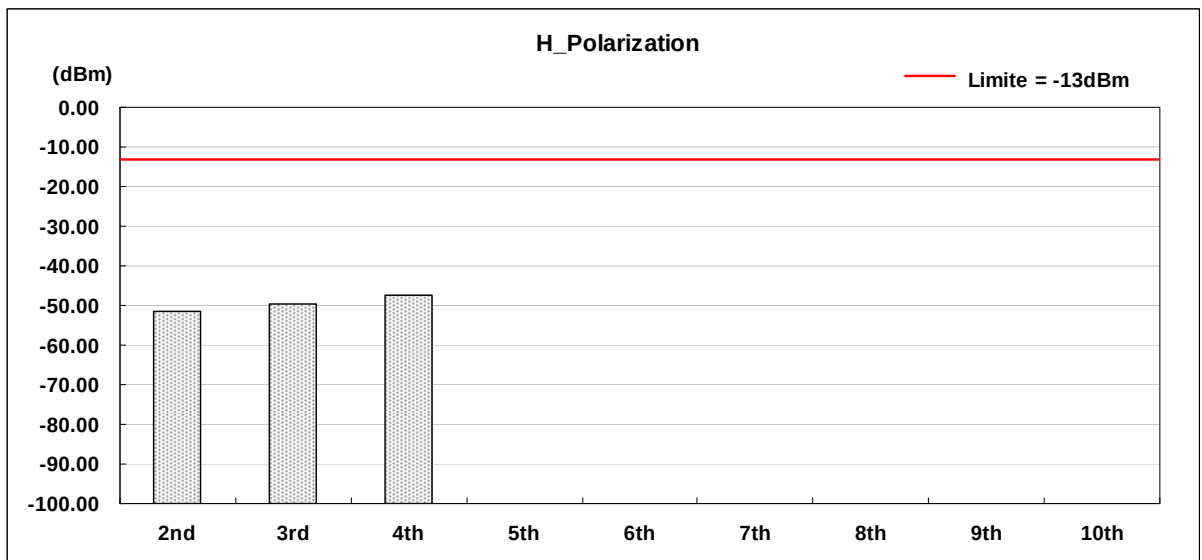
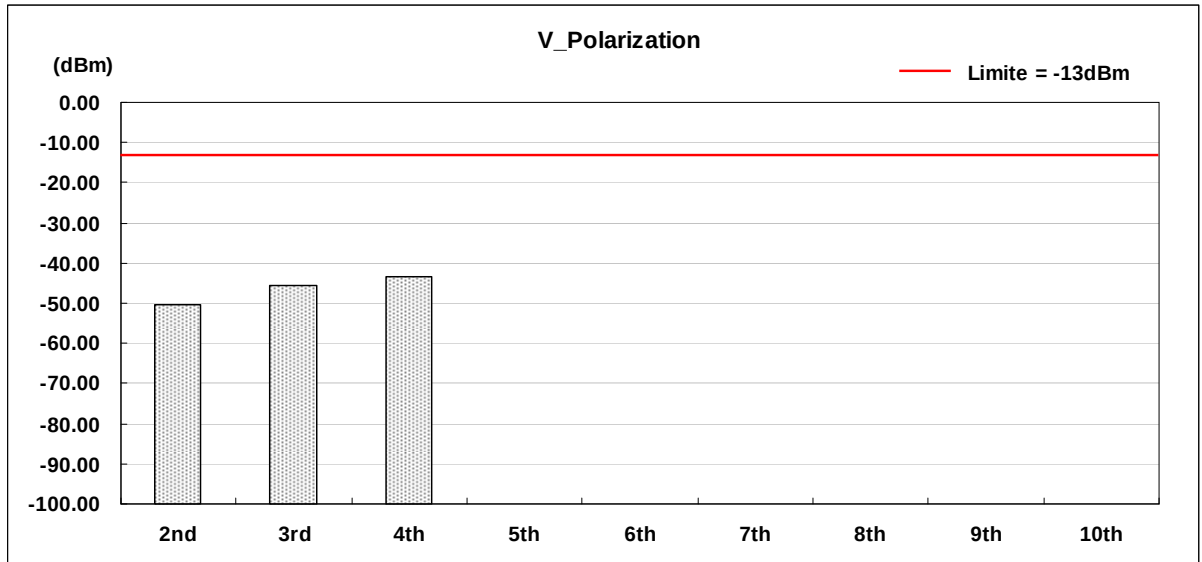


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band V (Middle CH4182)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1693.2	V	-13	-57.72	10.74	0.59	-47.57
3rd	2539.8	V	-13	-55.64	10.68	0.63	-45.59
4th	3386.4	V	-13	-49.84	10.80	0.78	-39.82
5th	4233.0	V	-13	*	*	*	
6th	5079.6	V	-13	*	*	*	
7th	5926.2	V	-13	*	*	*	
8th	6772.8	V	-13	*	*	*	
9th	7619.4	V	-13	*	*	*	
10th	8466.0	V	-13	*	*	*	
2nd	1693.2	H	-13	-61.50	10.74	0.59	-51.35
3rd	2539.8	H	-13	-60.04	10.68	0.63	-49.99
4th	3386.4	H	-13	-56.56	10.80	0.78	-46.54
5th	4233.0	H	-13	*	*	*	
6th	5079.6	H	-13	*	*	*	
7th	5926.2	H	-13	*	*	*	
8th	6772.8	H	-13	*	*	*	
9th	7619.4	H	-13	*	*	*	
10th	8466.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



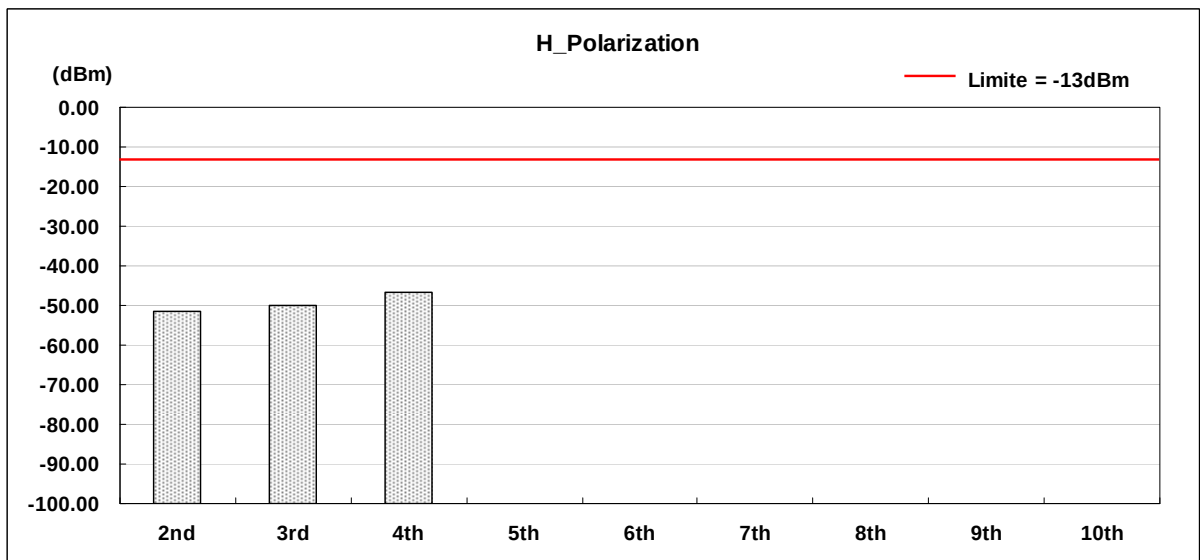
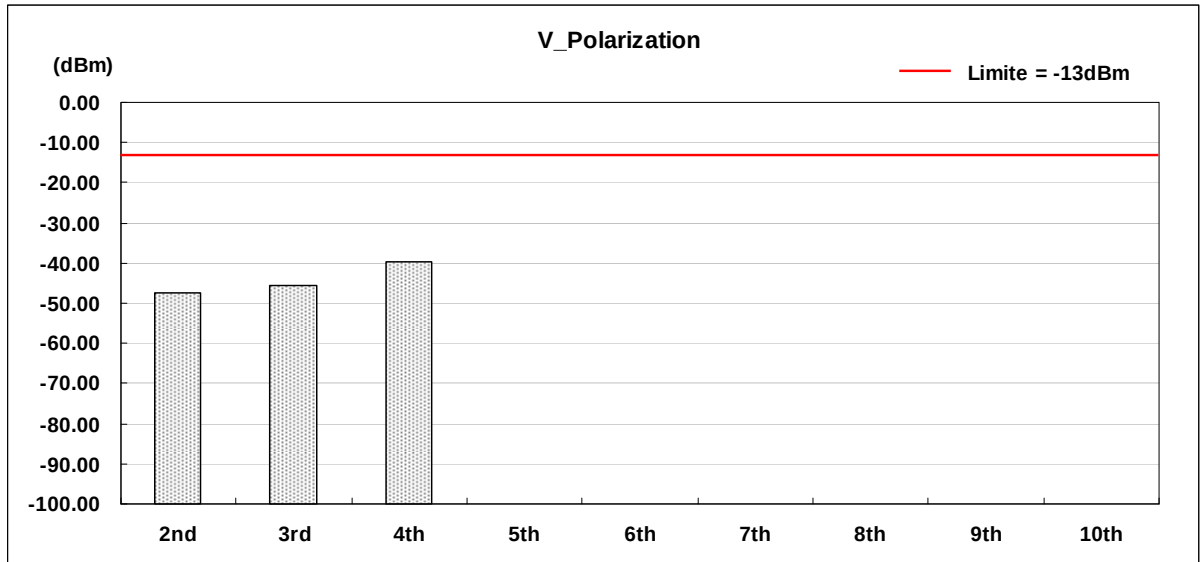


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band V (High CH 4233)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	1693.2	V	-13	-57.72	10.74	0.59	-47.57
3rd	2539.8	V	-13	-55.64	10.68	0.63	-45.59
4th	3386.4	V	-13	-49.84	10.80	0.78	-39.82
5th	4233.0	V	-13	*	*	*	
6th	5079.6	V	-13	*	*	*	
7th	5926.2	V	-13	*	*	*	
8th	6772.8	V	-13	*	*	*	
9th	7619.4	V	-13	*	*	*	
10th	8466.0	V	-13	*	*	*	
2nd	1693.2	H	-13	-61.50	10.74	0.59	-51.35
3rd	2539.8	H	-13	-60.04	10.68	0.63	-49.99
4th	3386.4	H	-13	-56.56	10.80	0.78	-46.54
5th	4233.0	H	-13	*	*	*	
6th	5079.6	H	-13	*	*	*	
7th	5926.2	H	-13	*	*	*	
8th	6772.8	H	-13	*	*	*	
9th	7619.4	H	-13	*	*	*	
10th	8466.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$





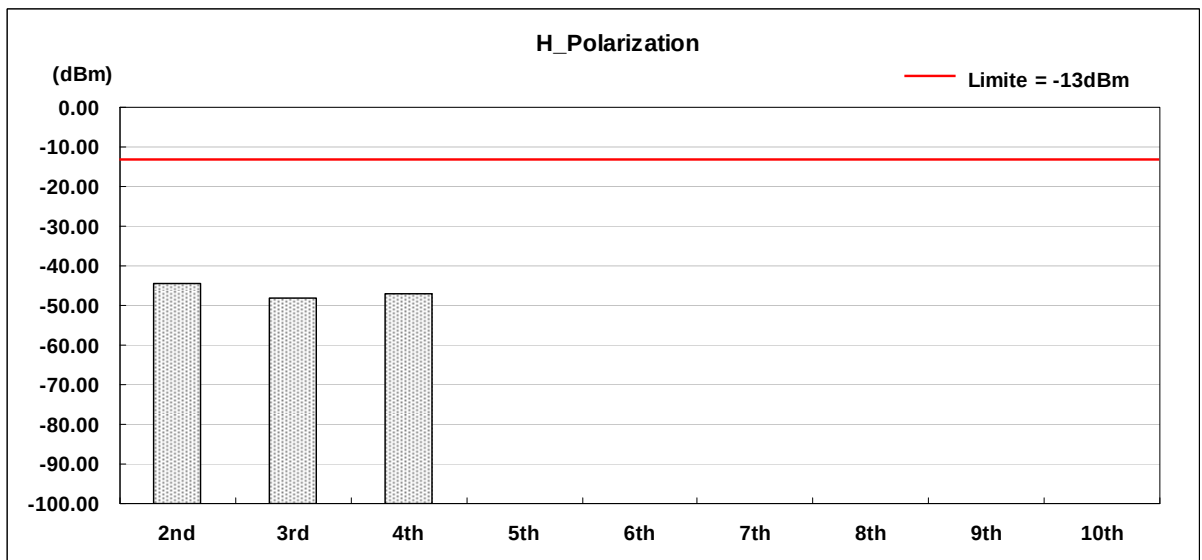
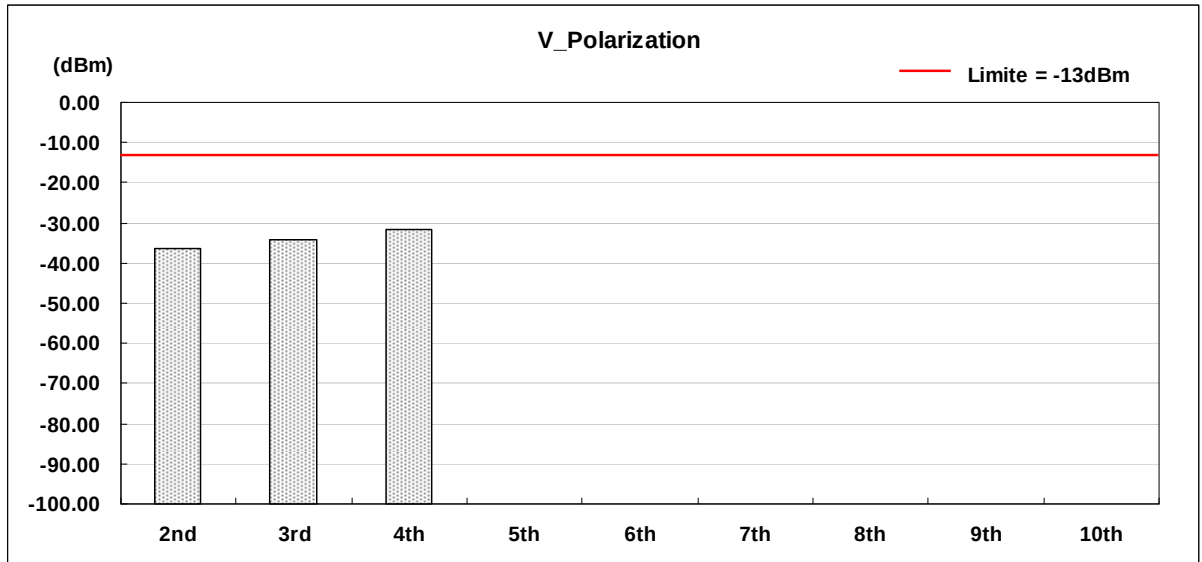
4.6.4.4 WCDMA Band II Test Result

Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band II (Low CH9262)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3704.8	V	-13	-46.43	10.79	0.58	-36.22
3rd	5557.2	V	-13	-44.17	10.71	0.63	-34.09
4th	7409.6	V	-13	-41.72	10.81	0.78	-31.69
5th	9262.0	V	-13	*	*	*	
6th	11114.4	V	-13	*	*	*	
7th	12966.8	V	-13	*	*	*	
8th	14819.2	V	-13	*	*	*	
9th	16671.6	V	-13	*	*	*	
10th	18524.0	V	-13	*	*	*	
2nd	3704.8	H	-13	-54.78	10.79	0.58	-44.57
3rd	5557.2	H	-13	-58.15	10.71	0.63	-48.07
4th	7409.6	H	-13	-57.07	10.81	0.78	-47.04
5th	9262.0	H	-13	*	*	*	
6th	11114.4	H	-13	*	*	*	
7th	12966.8	H	-13	*	*	*	
8th	14819.2	H	-13	*	*	*	
9th	16671.6	H	-13	*	*	*	
10th	18524.0	H	-13	*	*	*	

Notes:

1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



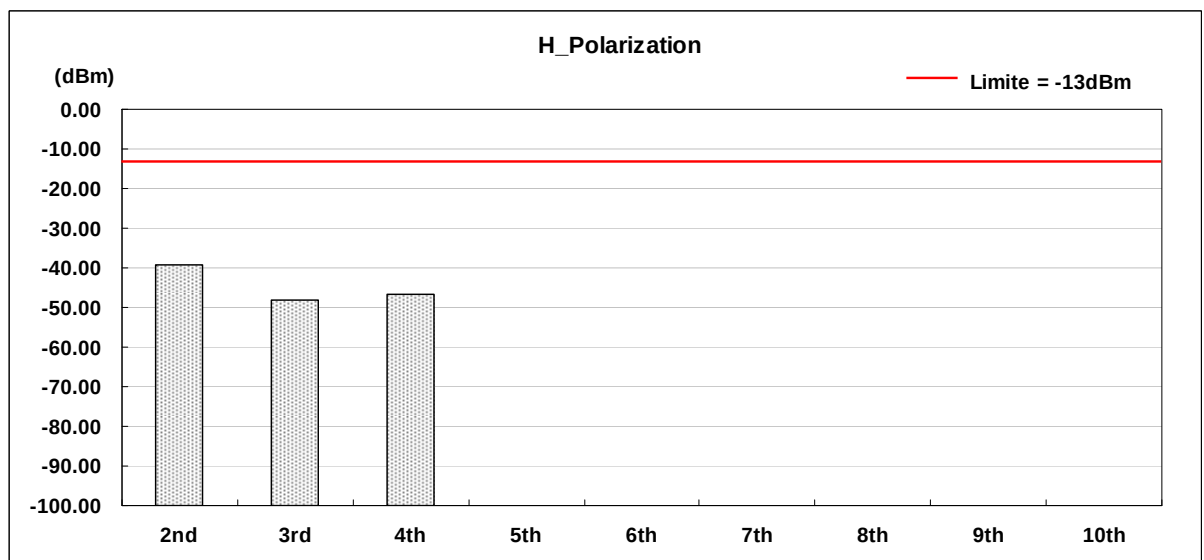
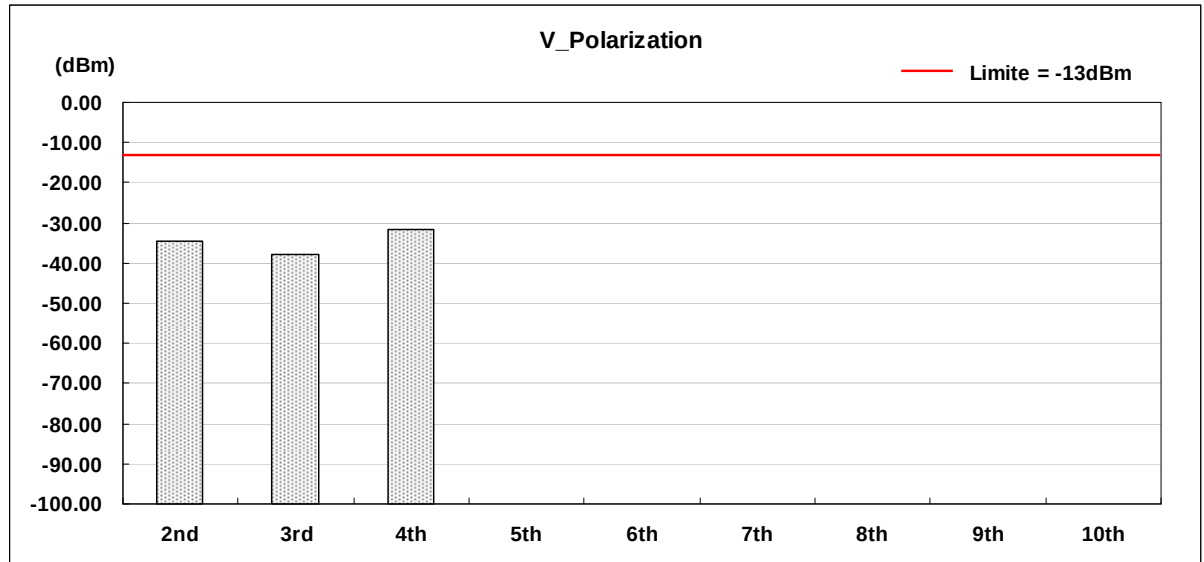


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band II (Middle CH9400)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3760.0	V	-13	-44.83	10.79	0.58	-34.62
3rd	5640.0	V	-13	-48.13	10.71	0.63	-38.05
4th	7520.0	V	-13	-41.68	10.81	0.78	-31.65
5th	9400.0	V	-13	*	*	*	
6th	11280.0	V	-13	*	*	*	
7th	13160.0	V	-13	*	*	*	
8th	15040.0	V	-13	*	*	*	
9th	16920.0	V	-13	*	*	*	
10th	18800.0	V	-13	*	*	*	
2nd	3760.0	H	-13	-49.59	10.79	0.58	-39.38
3rd	5640.0	H	-13	-58.16	10.71	0.63	-48.08
4th	7520.0	H	-13	-56.58	10.81	0.78	-46.55
5th	9400.0	H	-13	*	*	*	
6th	11280.0	H	-13	*	*	*	
7th	13160.0	H	-13	*	*	*	
8th	15040.0	H	-13	*	*	*	
9th	16920.0	H	-13	*	*	*	
10th	18800.0	H	-13	*	*	*	

Notes:

- * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
- $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



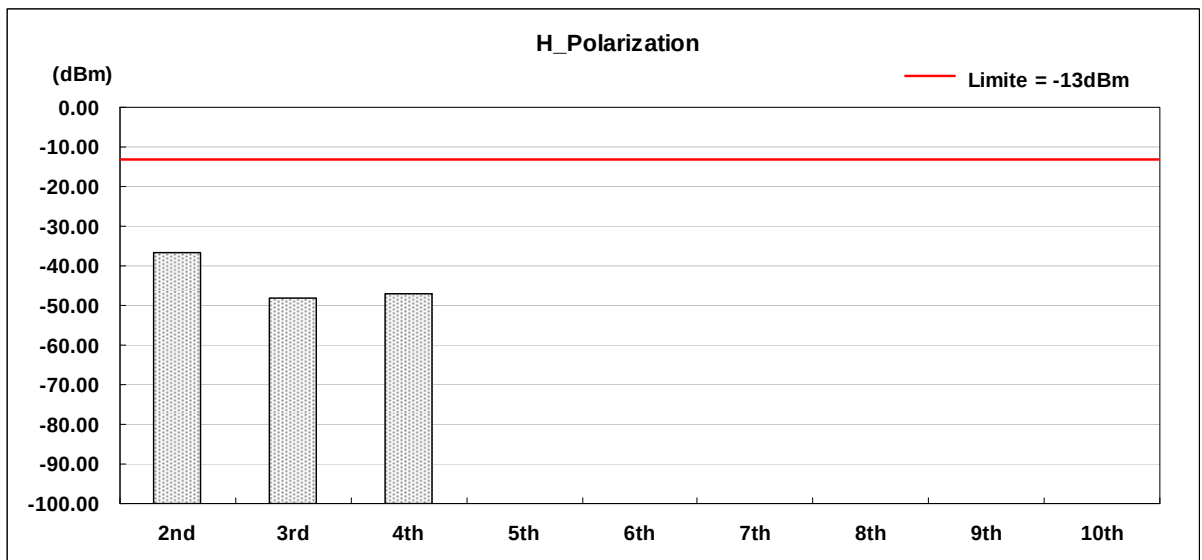
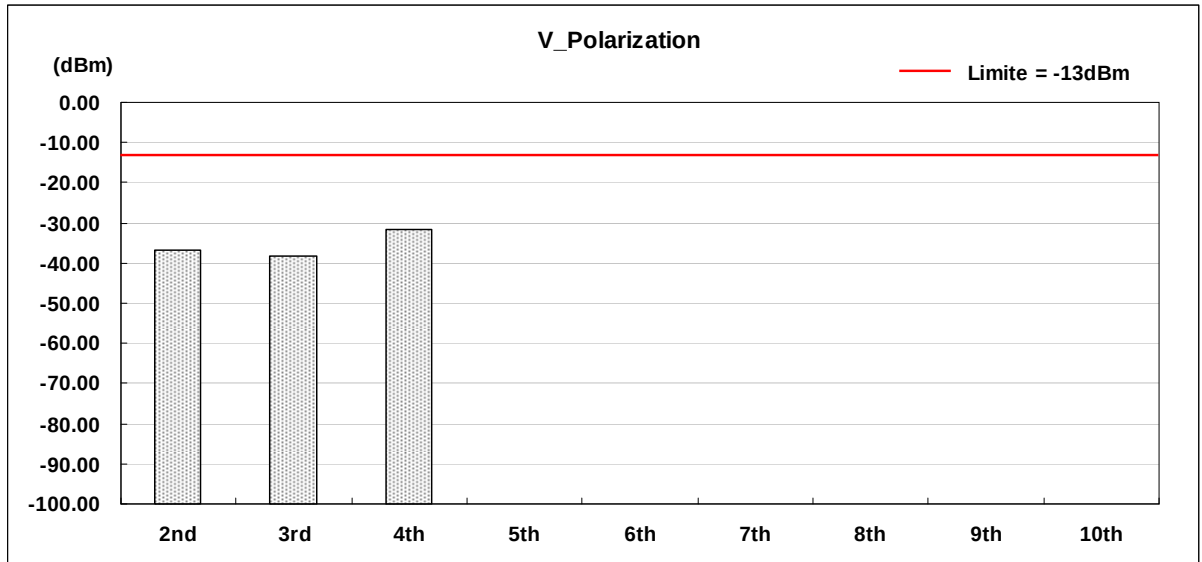


Applicant : Inventec Corporation
 Model No : Velocity 103
 EUT : PDA PHONE
 Test Mode : WCDMA Band II (High CH 9538)
 Test Date : 05/05/2008

Harmonic	Frequency (MHz)	Polarization	FCC Max. Limit	S.G Power	Substitution Antenna Gain	Cable Loss	Peak Output Power
			(dBm)	(dBm)	(dBi)	(dBm)	(dBm)
2nd	3815.2	V	-13	-47.13	10.79	0.58	-36.92
3rd	5722.8	V	-13	-48.33	10.71	0.63	-38.25
4th	7630.4	V	-13	-41.52	10.81	0.78	-31.49
5th	9538.0	V	-13	*	*	*	
6th	11445.6	V	-13	*	*	*	
7th	13353.2	V	-13	*	*	*	
8th	15260.8	V	-13	*	*	*	
9th	17168.4	V	-13	*	*	*	
10th	19076.0	V	-13	*	*	*	
2nd	3815.2	H	-13	-47.02	10.79	0.58	-36.81
3rd	5722.8	H	-13	-58.19	10.71	0.63	-48.11
4th	7630.4	H	-13	-56.91	10.81	0.78	-46.88
5th	9538.0	H	-13	*	*	*	
6th	11445.6	H	-13	*	*	*	
7th	13353.2	H	-13	*	*	*	
8th	15260.8	H	-13	*	*	*	
9th	17168.4	H	-13	*	*	*	
10th	19076.0	H	-13	*	*	*	

Notes:

- * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
- $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



4.7 Frequency Stability (Temperature Variation)

4.7.1 Measurement Instrument

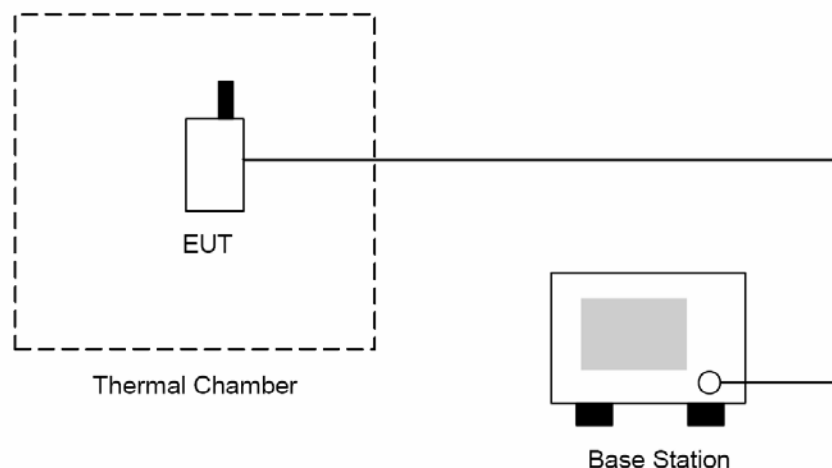
As described in chapter 5 of this test report.

4.7.2 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 noted 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.

4.7.3 Test Setup Layout





4.7.4 Test Result

Test Mode: GSM 850 CH190

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	34.72	0.042	0.1
-20	36.12	0.043	0.1
-10	33.71	0.040	0.1
0	30.16	0.036	0.1
10	31.31	0.037	0.1
20	31.54	0.038	0.1
30	29.59	0.035	0.1
40	24.78	0.030	0.1
50	30.75	0.037	0.1

Test Mode: PCS 1900 CH661

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	43.72	0.023	1
-20	40.85	0.022	1
-10	41.59	0.022	1
0	39.57	0.021	1
10	36.98	0.020	1
20	42.42	0.023	1
30	47.18	0.025	1
40	44.61	0.024	1
50	40.18	0.021	1

Test Mode: WCDMA Band V CH4182

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	20.99	0.025	0.1
-20	28.46	0.034	0.1
-10	24.51	0.029	0.1
0	33.19	0.040	0.1
10	30.62	0.037	0.1
20	29.51	0.035	0.1
30	22.71	0.027	0.1
40	26.26	0.031	0.1
50	28.47	0.034	0.1



Test Mode: WCDMA Band II CH9400

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	41.41	0.022	1
-20	42.63	0.023	1
-10	39.75	0.021	1
0	40.18	0.021	1
10	38.72	0.021	1
20	41.55	0.022	1
30	43.43	0.023	1
40	42.56	0.023	1
50	37.59	0.020	1

4.8 Frequency Stability (Voltage Variation)

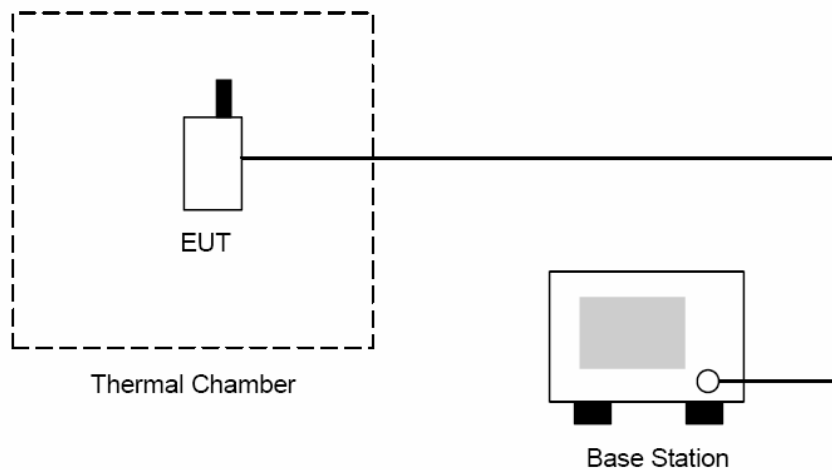
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at 25 ± 5 °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.

4.8.3 Test Setup Layout





4.8.4 Test Result

Test Mode: GSM 850 CH190

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.20	22.78	0.027	0.1
Normal	3.70	24.91	0.030	0.1
Battery cut-off point	3.45	31.55	0.038	0.1

Test Mode: PCS 1900 CH661

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.20	24.78	0.013	1
Normal	3.70	29.63	0.016	1
Battery cut-off point	3.45	33.84	0.018	1

Test Mode: WCDMA Band V CH4182

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.20	30.18	0.036	0.1
Normal	3.70	39.57	0.047	0.1
Battery cut-off point	3.45	28.66	0.034	0.1

Test Mode: WCDMA Band II CH9400

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.20	45.69	0.024	1
Normal	3.70	43.96	0.023	1
Battery cut-off point	3.45	44.78	0.024	1



4.9 AC Power Conducted Emissions Requirements

4.9.1 Measurement Instrument

As described in chapter 5 of this test report.

4.9.2 Test Procedure

The measurement is made according to FCC rules 15.207:

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

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

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

4.9.3 Test Configuration:



Figure 1. Front View of the Test Configuration



Figure 2. Rear View of the Test Configuration



4.9.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer, and exercised in the most unfavorable manner.

4.9.5 Conducted Emissions Limits:

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



4.9.6 Test Result

4.9.6.1 GSM 850 Test Result

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : GSM 850 (Low CH128 / Middle CH190 / High CH 251)
Test Date : 04/24/2008

Please refer to next pager of detail testing data.



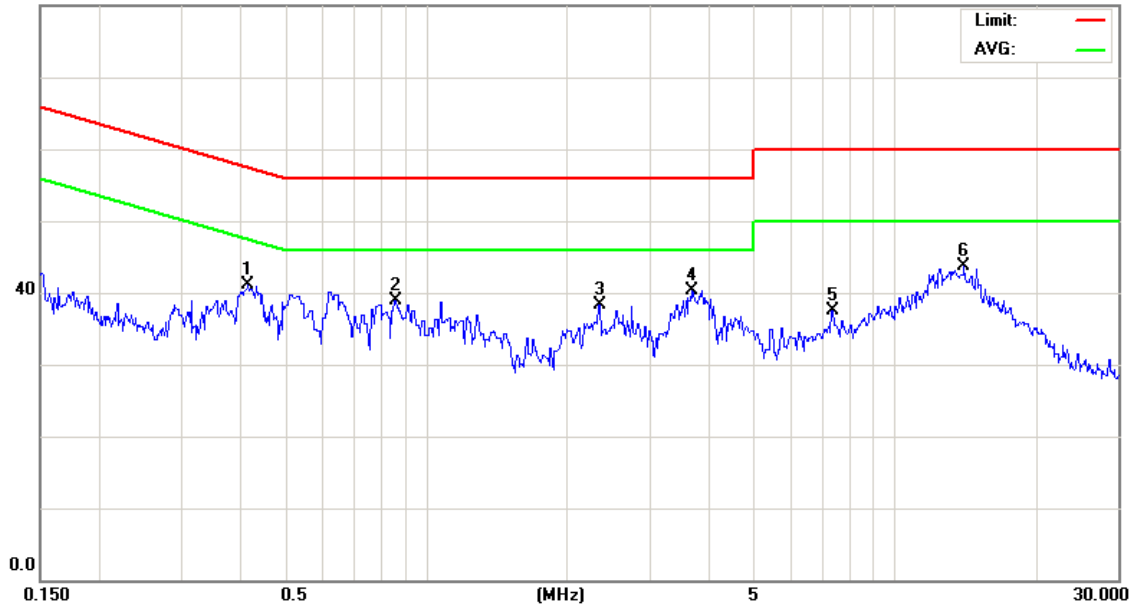
File :Raymond 103(GSM850)

Data :#1

Date: 2008/4/24

Time: 下午 03:38:20

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH128

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4160	31.24	9.78	41.02	57.53	-16.51	peak	
2		0.8600	29.14	9.80	38.94	56.00	-17.06	peak	
3		2.3360	28.41	9.85	38.26	56.00	-17.74	peak	
4	*	3.6770	30.45	9.94	40.39	56.00	-15.61	peak	
5		7.3500	27.45	10.09	37.54	60.00	-22.46	peak	
6		14.0500	33.59	10.20	43.79	60.00	-16.21	peak	

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

●Reference Only



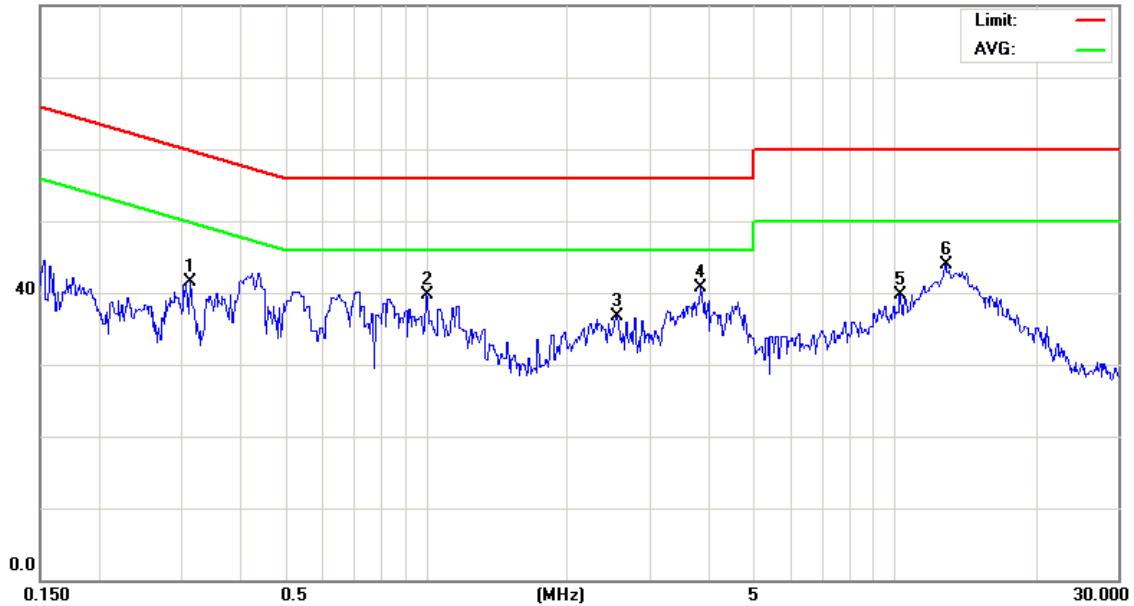
File :Raymond 103(GSM850)

Data :#2

Date: 2008/4/24

Time: 下午 03:41:43

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH128

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3124	31.68	9.77	41.45	59.90	-18.45	peak	
2		1.0040	29.81	9.80	39.61	56.00	-16.39	peak	
3		2.5430	26.78	9.92	36.70	56.00	-19.30	peak	
4	*	3.8300	30.79	9.95	40.74	56.00	-15.26	peak	
5		10.2500	29.73	10.06	39.79	60.00	-20.21	peak	
6		12.8000	33.66	10.18	43.84	60.00	-16.16	peak	

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

●Reference Only



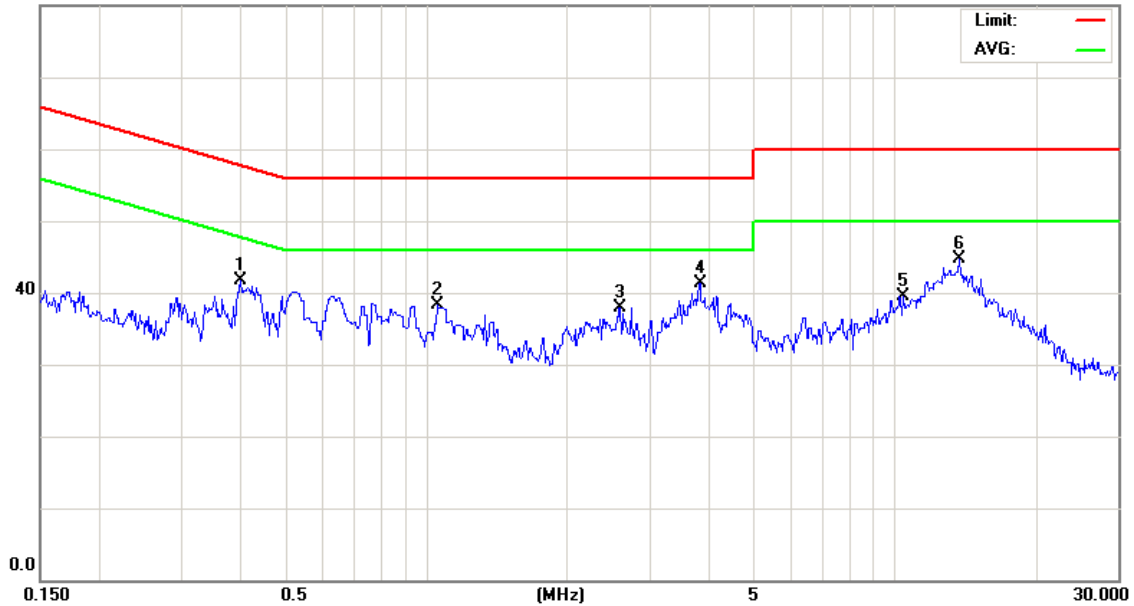
File :Raymond 103(GSM850)

Data :#3

Date: 2008/4/24

Time: 下午 03:47:56

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH190

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4013	31.97	9.78	41.75	57.83	-16.08	peak	
2		1.0580	28.46	9.80	38.26	56.00	-17.74	peak	
3		2.5880	27.96	9.93	37.89	56.00	-18.11	peak	
4	*	3.8210	31.27	9.95	41.22	56.00	-14.78	peak	
5		10.4000	29.49	10.05	39.54	60.00	-20.46	peak	
6		13.7000	34.44	10.21	44.65	60.00	-15.35	peak	

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

●Reference Only



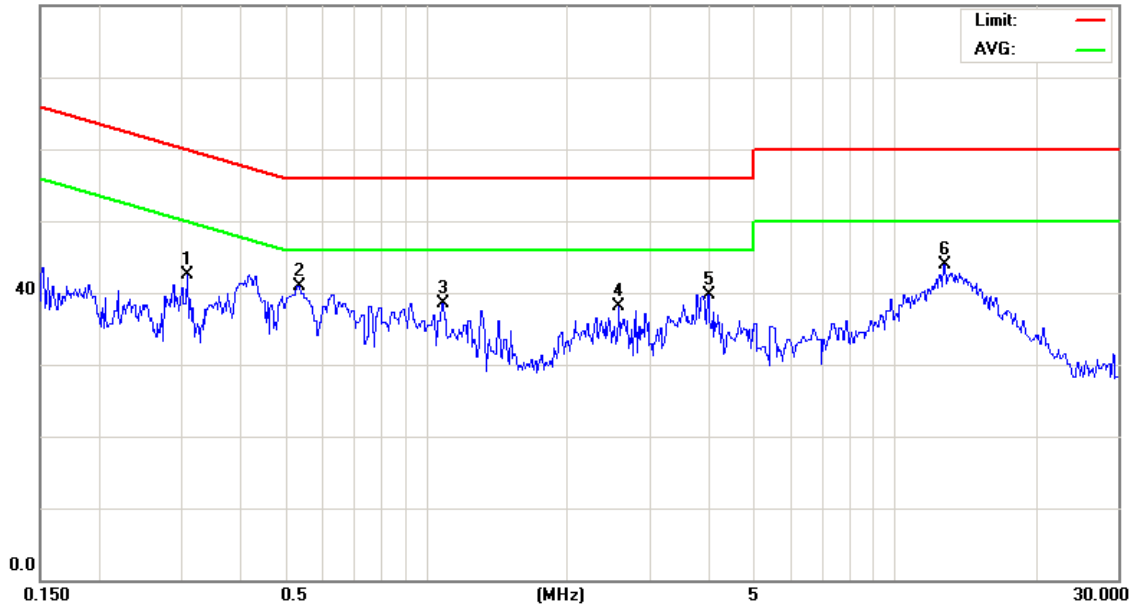
File :Raymond 103(GSM850)

Data :#4

Date: 2008/4/24

Time: 下午 04:44:25

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH190

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3089	32.76	9.77	42.53	60.00	-17.47	peak	
2	*	0.5360	31.18	9.79	40.97	56.00	-15.03	peak	
3		1.0850	28.63	9.80	38.43	56.00	-17.57	peak	
4		2.5789	28.15	9.93	38.08	56.00	-17.92	peak	
5		3.9920	29.80	9.97	39.77	56.00	-16.23	peak	
6		12.7500	33.79	10.18	43.97	60.00	-16.03	peak	

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

●Reference Only



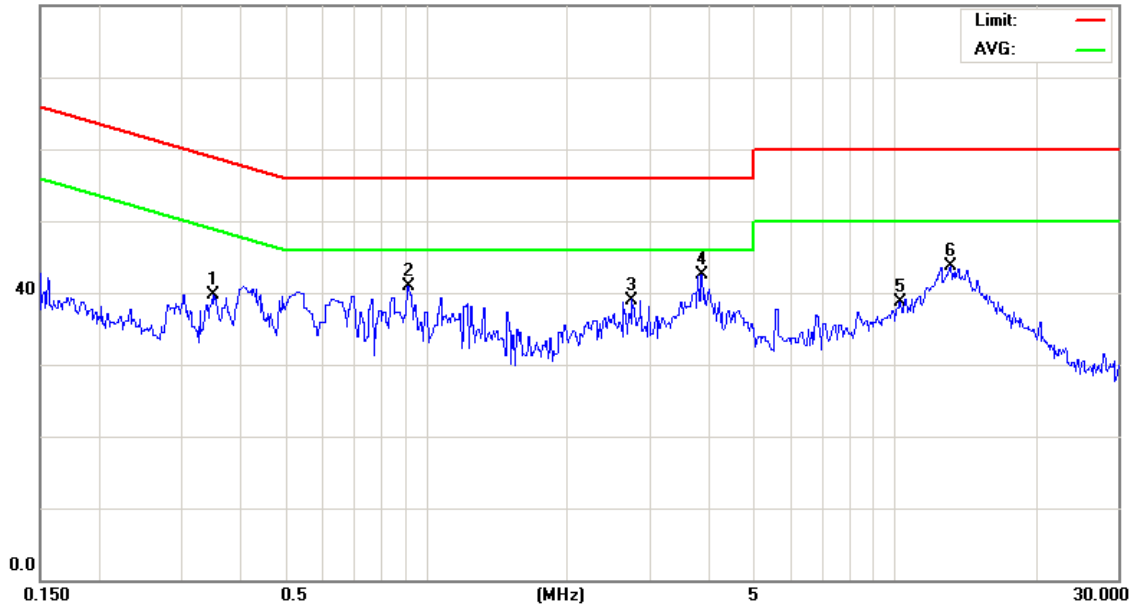
File :Raymond 103(GSM850)

Data :#5

Date: 2008/4/24

Time: 下午 04:50:58

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH251

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3495	29.95	9.78	39.73	58.97	-19.24	peak	
2		0.9140	31.02	9.81	40.83	56.00	-15.17	peak	
3		2.7500	29.10	9.90	39.00	56.00	-17.00	peak	
4	*	3.8660	32.61	9.95	42.56	56.00	-13.44	peak	
5		10.2500	28.71	10.06	38.77	60.00	-21.23	peak	
6		13.1500	33.58	10.19	43.77	60.00	-16.23	peak	

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

●Reference Only



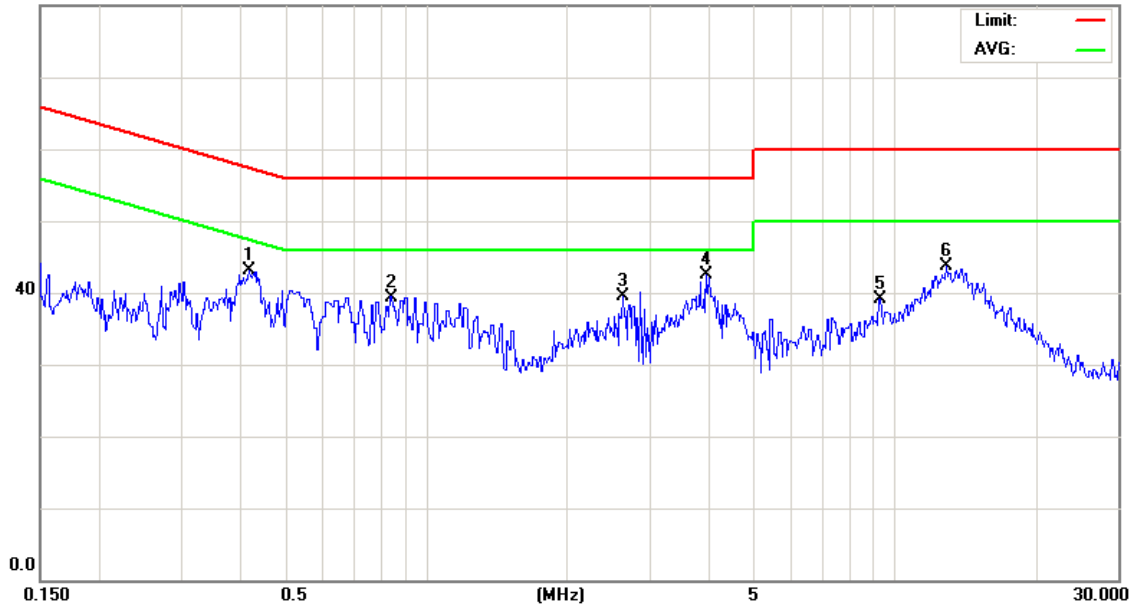
File :Raymond 103(GSM850)

Data :#7

Date: 2008/4/24

Time: 下午 04:55:16

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: GSM850

Note: CH251

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4181	33.27	9.78	43.05	57.48	-14.43	peak	
2		0.8420	29.60	9.80	39.40	56.00	-16.60	peak	
3		2.6240	29.59	9.93	39.52	56.00	-16.48	peak	
4	*	3.9560	32.59	9.98	42.57	56.00	-13.43	peak	
5		9.3000	29.07	10.08	39.15	60.00	-20.85	peak	
6		12.9000	33.57	10.18	43.75	60.00	-16.25	peak	

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

●Reference Only



4.9.6.2 PCS 1900 Test Result

Applicant : Inventec Corporation
Model No : Velocity 103
EUT : PDA PHONE
Test Mode : PCS 1900 (Low CH512 / Middle CH661 / High CH 810)
Test Date : 04/24/2008
Please refer to next pager of detail testing data.



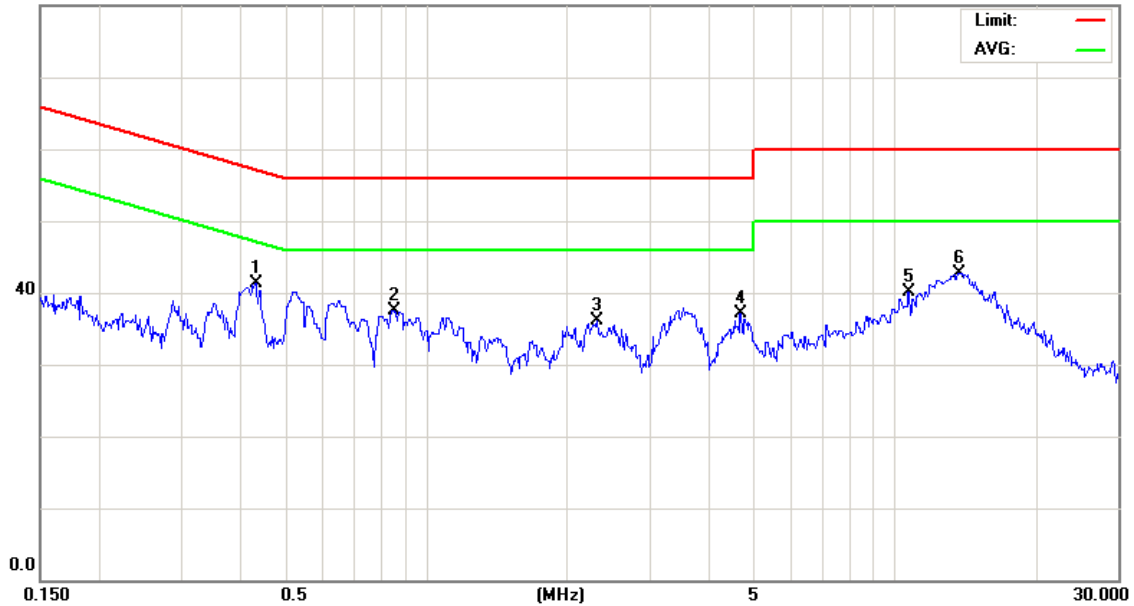
File :Raymond 103(PCS1900)

Data :#1

Date: 2008/4/24

Time: 下午 05:03:21

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH512

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4328	31.61	9.78	41.39	57.20	-15.81	peak	
2		0.8510	27.64	9.80	37.44	56.00	-18.56	peak	
3		2.3179	26.21	9.85	36.06	56.00	-19.94	peak	
4		4.6760	27.00	10.01	37.01	56.00	-18.99	peak	
5		10.7000	30.00	10.06	40.06	60.00	-19.94	peak	
6		13.6500	32.55	10.21	42.76	60.00	-17.24	peak	

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

●Reference Only



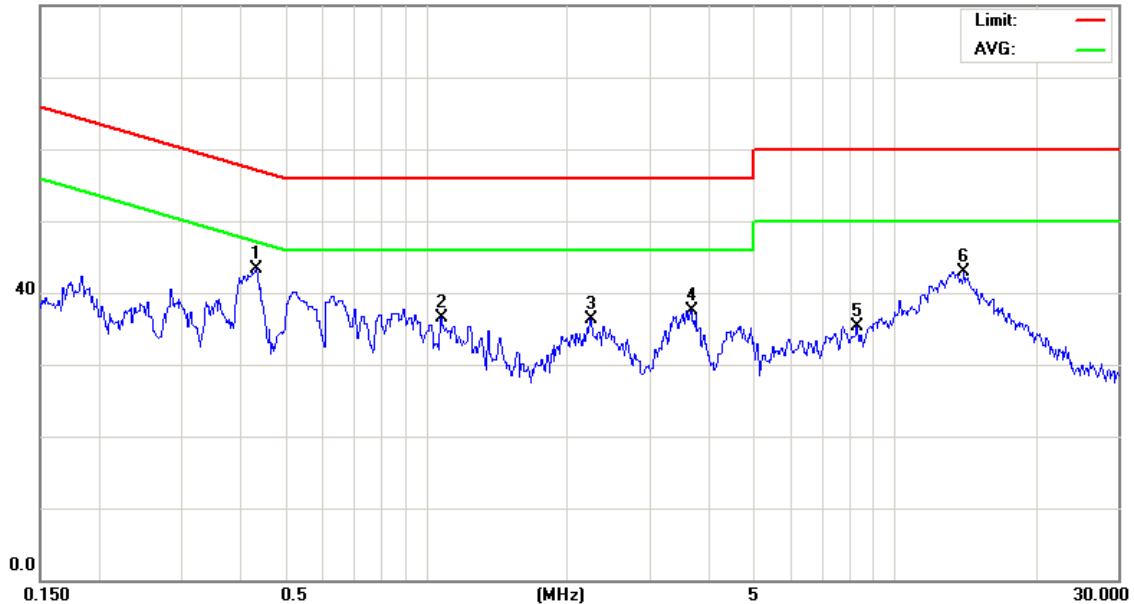
File :Raymond 103(PCS1900)

Data :#2

Date: 2008/4/24

Time: 下午 05:07:51

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH512

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4328	33.55	9.78	43.33	57.20	-13.87	peak	
2		1.0760	26.68	9.80	36.48	56.00	-19.52	peak	
3		2.2370	26.48	9.88	36.36	56.00	-19.64	peak	
4		3.6680	27.62	9.93	37.55	56.00	-18.45	peak	
5		8.3000	25.28	10.09	35.37	60.00	-24.63	peak	
6		14.0500	32.77	10.20	42.97	60.00	-17.03	peak	

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

●Reference Only



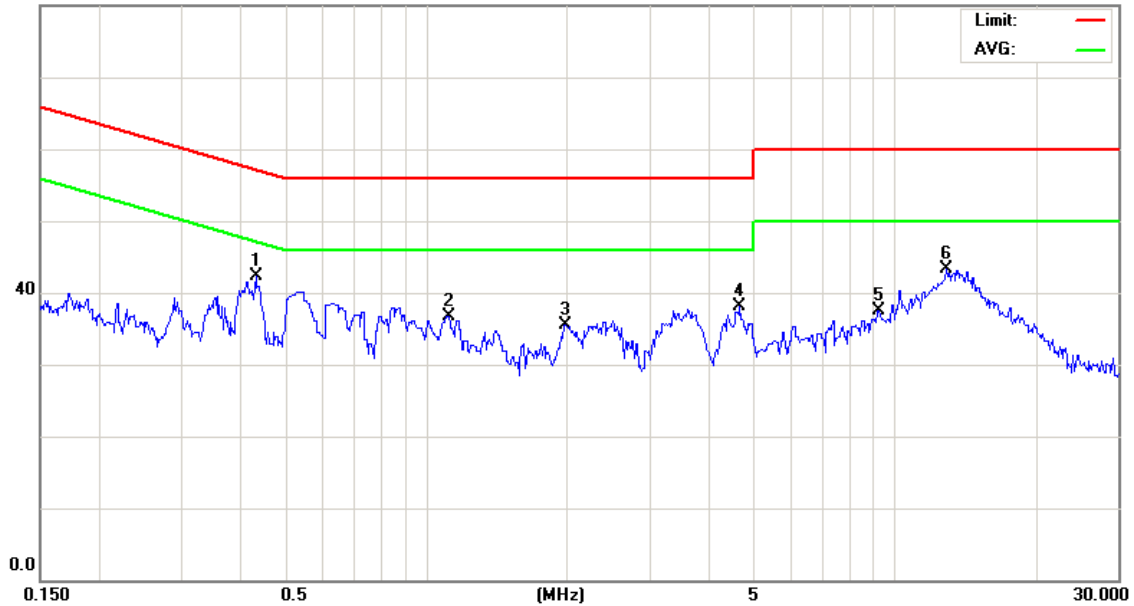
File :Raymond 103(PCS1900)

Data :#3

Date: 2008/4/24

Time: 下午 05:13:58

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4314	32.56	9.78	42.34	57.23	-14.89	peak	
2		1.1119	26.87	9.80	36.67	56.00	-19.33	peak	
3		1.9760	25.73	9.85	35.58	56.00	-20.42	peak	
4		4.6579	28.12	10.01	38.13	56.00	-17.87	peak	
5		9.2500	27.48	10.09	37.57	60.00	-22.43	peak	
6		12.9000	33.16	10.18	43.34	60.00	-16.66	peak	

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

●Reference Only



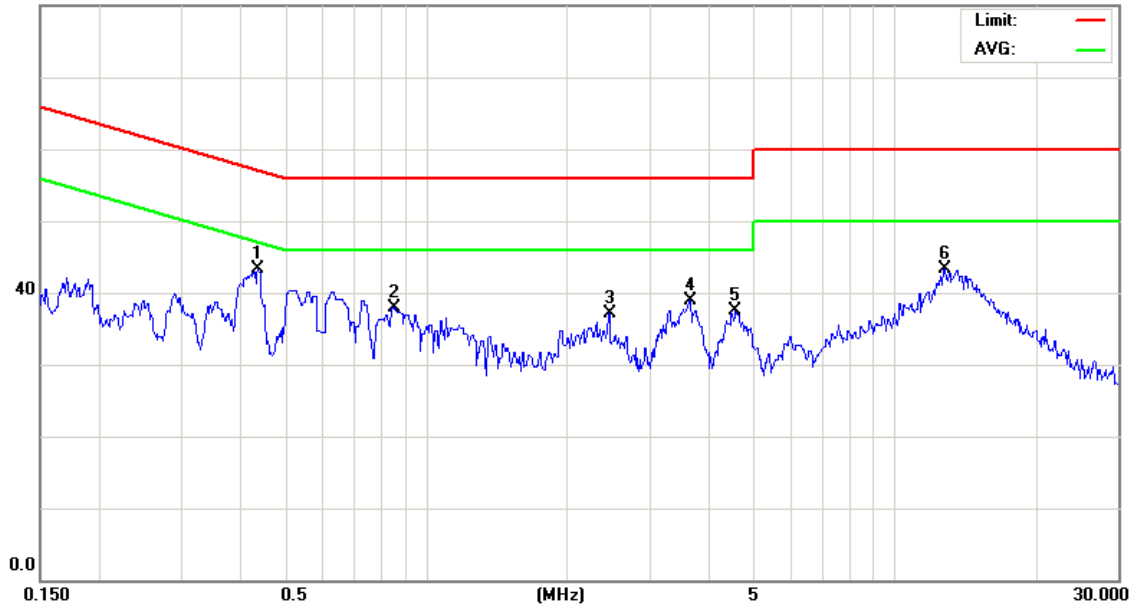
File :Raymond 103(PCS1900)

Data :#4

Date: 2008/4/24

Time: 下午 05:20:25

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4363	33.45	9.78	43.23	57.13	-13.90	peak	
2		0.8510	28.01	9.80	37.81	56.00	-18.19	peak	
3		2.4530	27.24	9.84	37.08	56.00	-18.92	peak	
4		3.6500	29.01	9.93	38.94	56.00	-17.06	peak	
5		4.5590	27.50	10.02	37.52	56.00	-18.48	peak	
6		12.7500	33.18	10.18	43.36	60.00	-16.64	peak	

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

●Reference Only



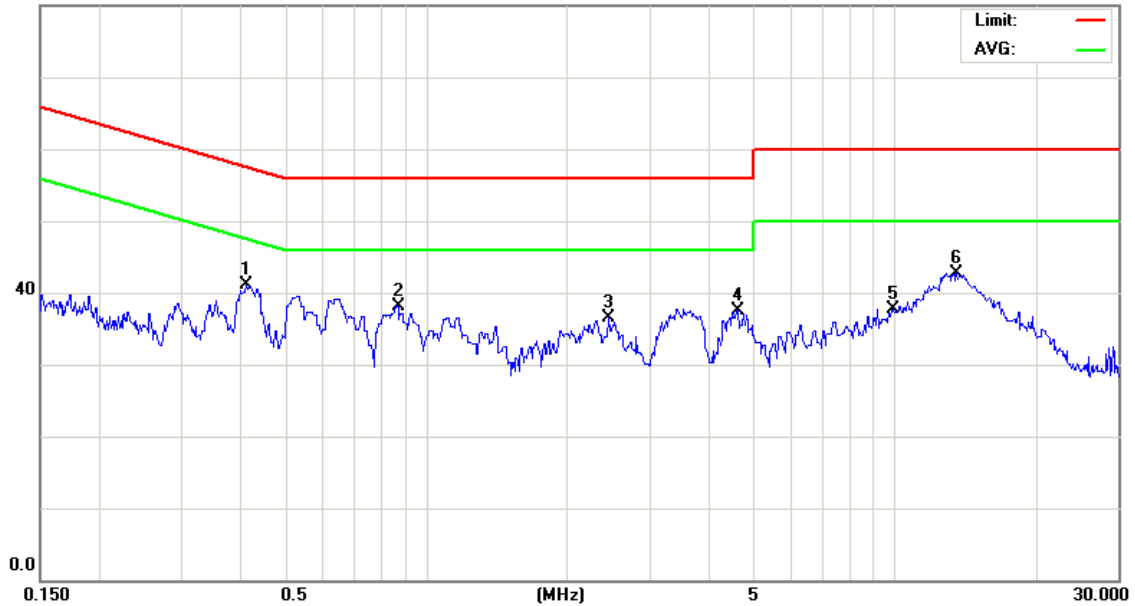
File :Raymond 103(PCS1900)

Data :#5

Date: 2008/4/24

Time: 下午 05:25:47

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4125	31.24	9.78	41.02	57.60	-16.58	peak	
2		0.8690	28.30	9.80	38.10	56.00	-17.90	peak	
3		2.4440	26.62	9.84	36.46	56.00	-19.54	peak	
4		4.6040	27.48	10.01	37.49	56.00	-18.51	peak	
5		9.9000	27.61	10.08	37.69	60.00	-22.31	peak	
6		13.5500	32.59	10.21	42.80	60.00	-17.20	peak	

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

●Reference Only



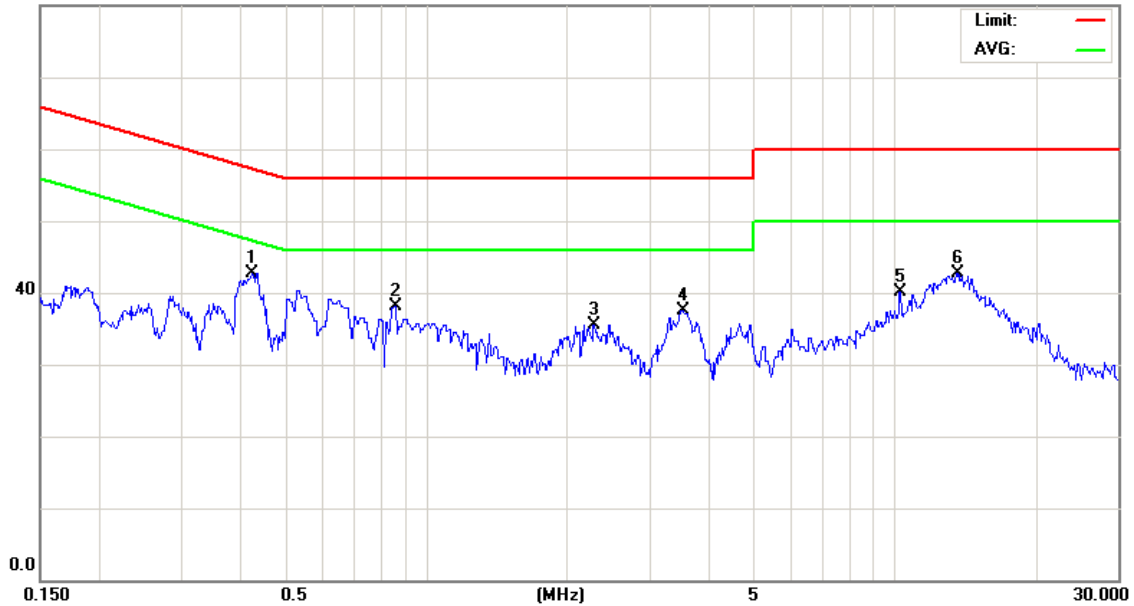
File :Raymond 103(PCS1900)

Data :#6

Date: 2008/4/24

Time: 下午 05:28:56

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: PCS1900

Note: CH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4230	32.96	9.78	42.74	57.39	-14.65	peak	
2		0.8600	28.37	9.80	38.17	56.00	-17.83	peak	
3		2.2730	25.55	9.87	35.42	56.00	-20.58	peak	
4		3.5330	27.62	9.94	37.56	56.00	-18.44	peak	
5		10.2500	30.03	10.06	40.09	60.00	-19.91	peak	
6		13.6000	32.55	10.21	42.76	60.00	-17.24	peak	

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

●Reference Only



4.9.6.3 WCDMA Band V Test Result

Applicant : Inventec Corporation

Model No : Velocity 103

EUT : PDA PHONE

Test Mode : WCDMA Band V (Low CH4132 / Middle CH4182 / High CH 4233)

Test Date : 04/24/2008

Please refer to next pager of detail testing data.



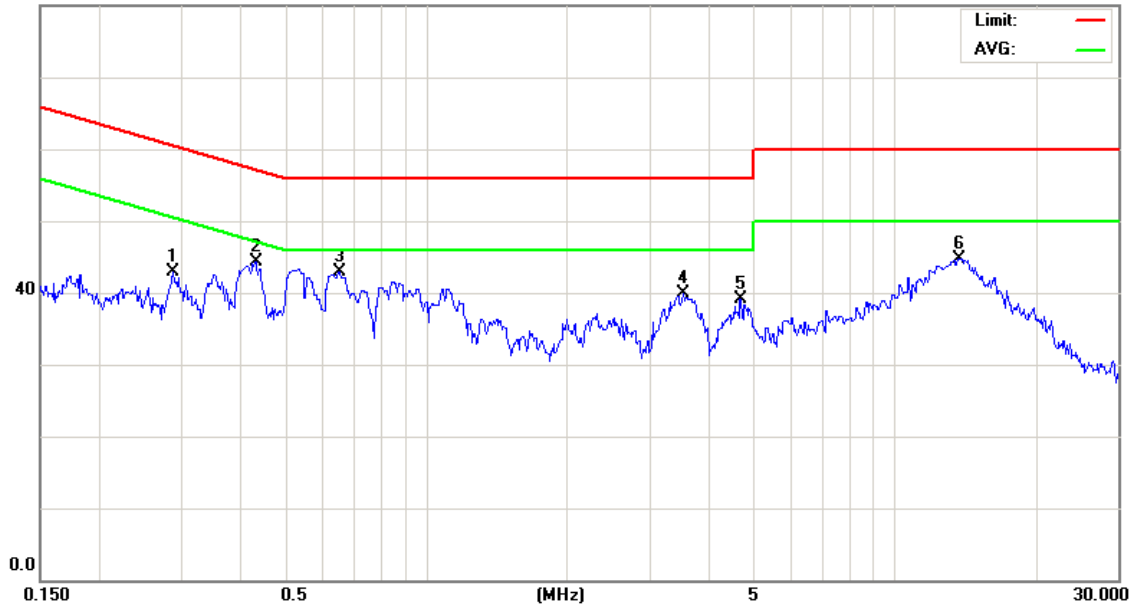
File :Raymond 103(WCDMA Band V

Data :#1

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4132

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2871	33.16	9.76	42.92	60.61	-17.69	peak	
2	*	0.4324	34.61	9.78	44.39	57.21	-12.82	peak	
3		0.6530	33.03	9.79	42.82	56.00	-13.18	peak	
4		3.5329	30.02	9.94	39.96	56.00	-16.04	peak	
5		4.6759	29.00	10.01	39.01	56.00	-16.99	peak	
6		13.6500	34.55	10.21	44.76	60.00	-15.24	peak	

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

●Reference Only



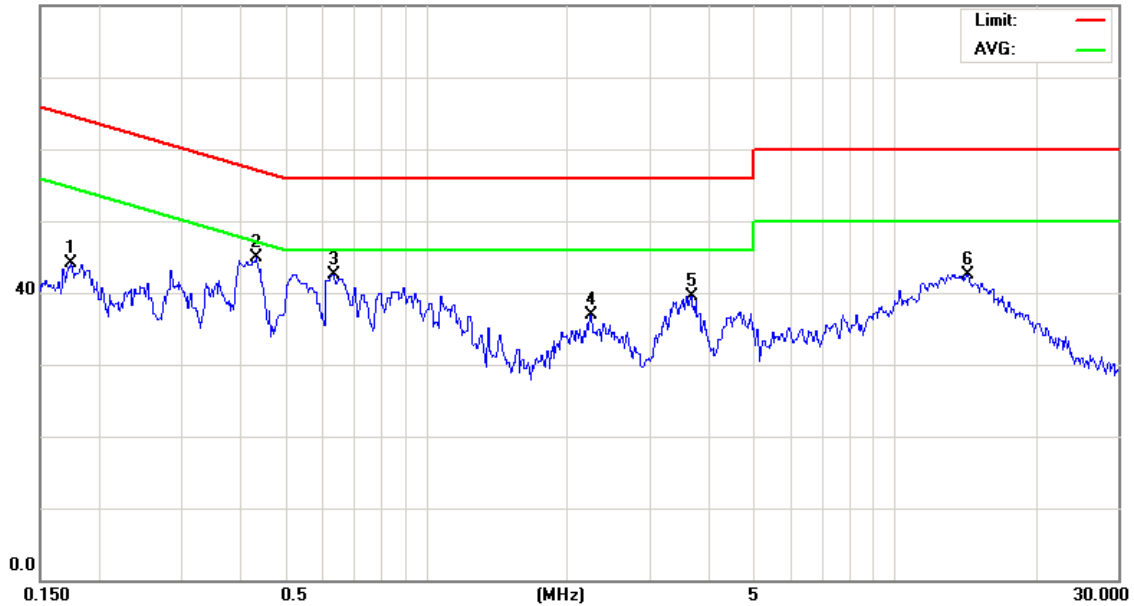
File :Raymond 103(WCDMA Band V

Data :#2

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4132

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1737	34.34	9.73	44.07	64.78	-20.71	peak	
2	*	0.4324	35.05	9.78	44.83	57.21	-12.38	peak	
3		0.6350	32.77	9.79	42.56	56.00	-13.44	peak	
4		2.2368	26.98	9.88	36.86	56.00	-19.14	peak	
5		3.6678	29.62	9.93	39.55	56.00	-16.45	peak	
6		14.3000	32.40	10.20	42.60	60.00	-17.40	peak	

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

●Reference Only



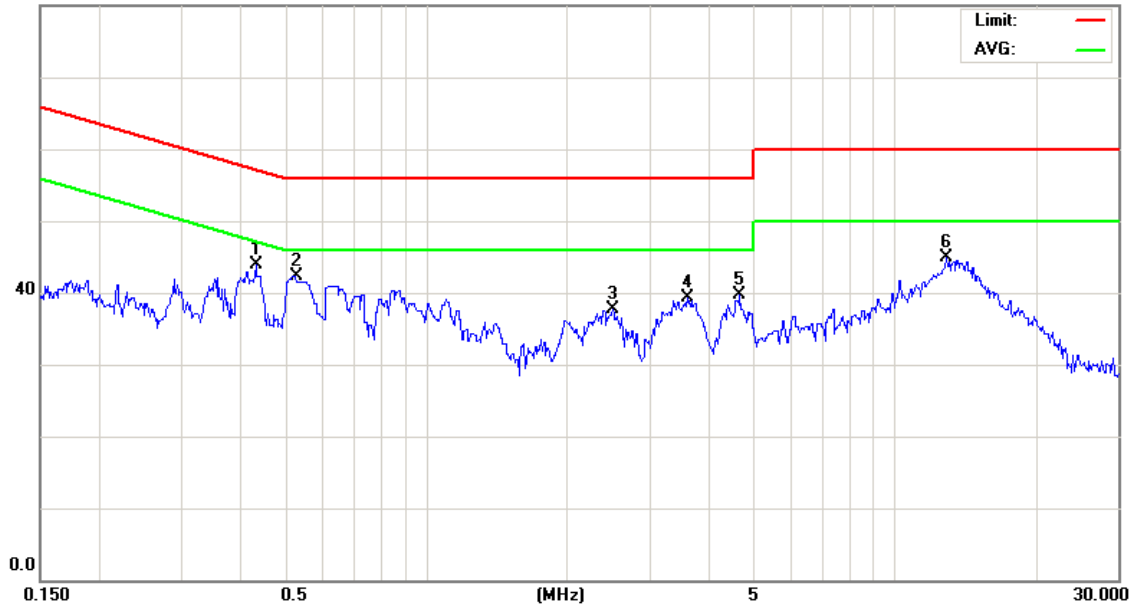
File :Raymond 103(WCDMA Band V

Data :#3

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4182

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4313	34.06	9.78	43.84	57.23	-13.39	peak	
2		0.5270	32.43	9.79	42.22	56.00	-13.78	peak	
3		2.4979	27.81	9.88	37.69	56.00	-18.31	peak	
4		3.5958	29.30	9.94	39.24	56.00	-16.76	peak	
5		4.6577	29.62	10.01	39.63	56.00	-16.37	peak	
6		12.9000	34.66	10.18	44.84	60.00	-15.16	peak	

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

●Reference Only



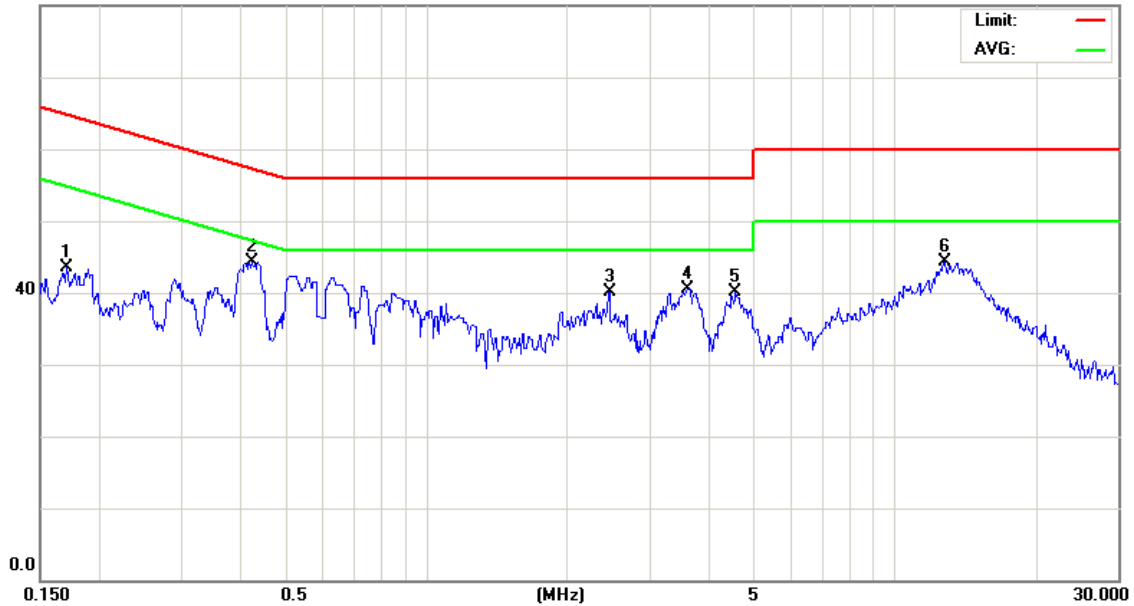
File :Raymond 103(WCDMA Band V

Data :#4

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4182

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1703	33.87	9.73	43.60	64.94	-21.34	peak	
2	*	0.4222	34.50	9.78	44.28	57.40	-13.12	peak	
3		2.4529	30.24	9.84	40.08	56.00	-15.92	peak	
4		3.6049	30.51	9.93	40.44	56.00	-15.56	peak	
5		4.5589	30.00	10.02	40.02	56.00	-15.98	peak	
6		12.7500	34.18	10.18	44.36	60.00	-15.64	peak	

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

●Reference Only



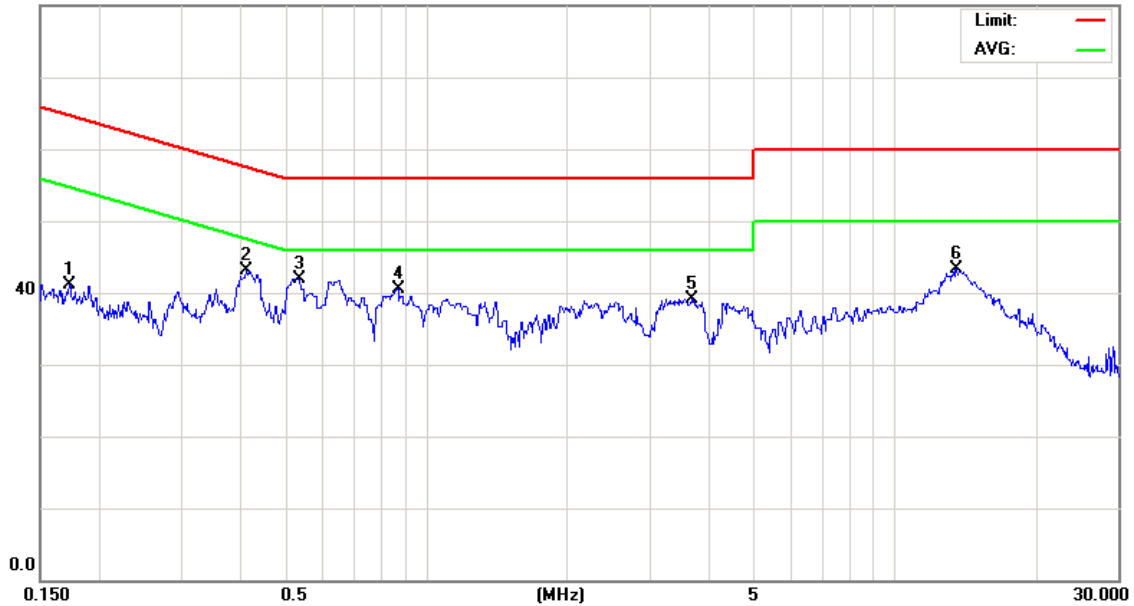
File :Raymond 103(WCDMA Band V

Data :#5

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4233

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1731	31.45	9.73	41.18	64.81	-23.63	peak	
2		0.4122	33.24	9.78	43.02	57.60	-14.58	peak	
3	*	0.5360	32.17	9.79	41.96	56.00	-14.04	peak	
4		0.8689	30.80	9.80	40.60	56.00	-15.40	peak	
5		3.6678	29.27	9.93	39.20	56.00	-16.80	peak	
6		13.5500	33.09	10.21	43.30	60.00	-16.70	peak	

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

●Reference Only



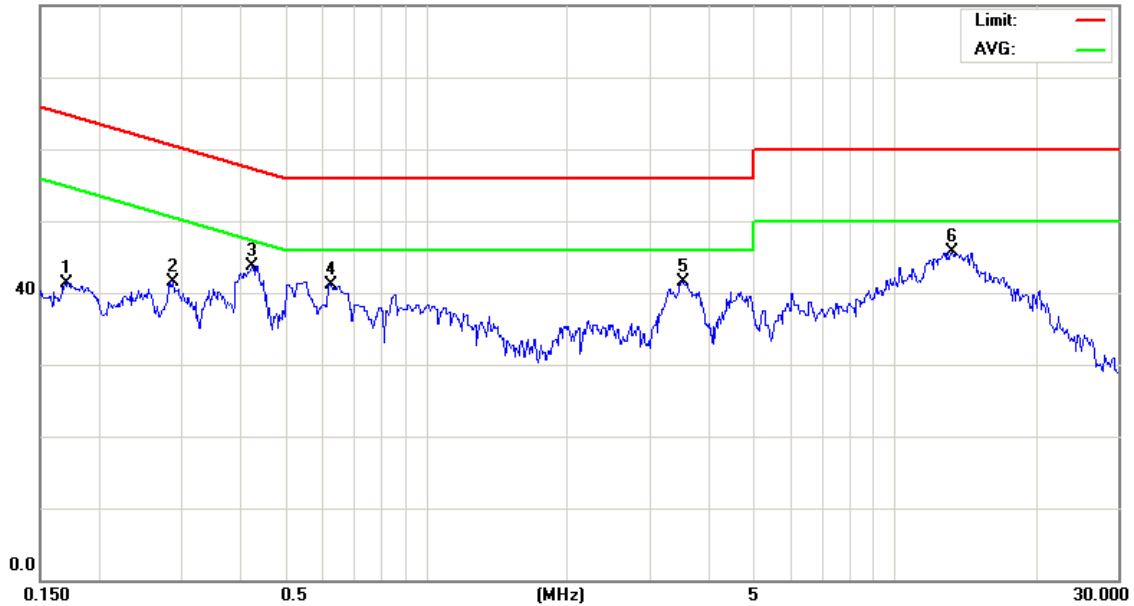
File :Raymond 103(WCDMA Band V

Data :#6

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band V

Note: CH4233

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1696	31.63	9.73	41.36	64.98	-23.62	peak	
2		0.2871	31.84	9.76	41.60	60.61	-19.01	peak	
3	*	0.4228	33.96	9.78	43.74	57.39	-13.65	peak	
4		0.6260	31.27	9.79	41.06	56.00	-14.94	peak	
5		3.5329	31.62	9.94	41.56	56.00	-14.44	peak	
6		13.2500	35.42	10.20	45.62	60.00	-14.38	peak	

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

●Reference Only



4.9.6.4 WCDMA Band II Test Result

Applicant : Inventec Corporation

Model No : Velocity 103

EUT : PDA PHONE

Test Mode : WCDMA Band II (Low CH9262 / Middle CH9400 / High CH 9536)

Test Date : 04/24/2008

Please refer to next pager of detail testing data.



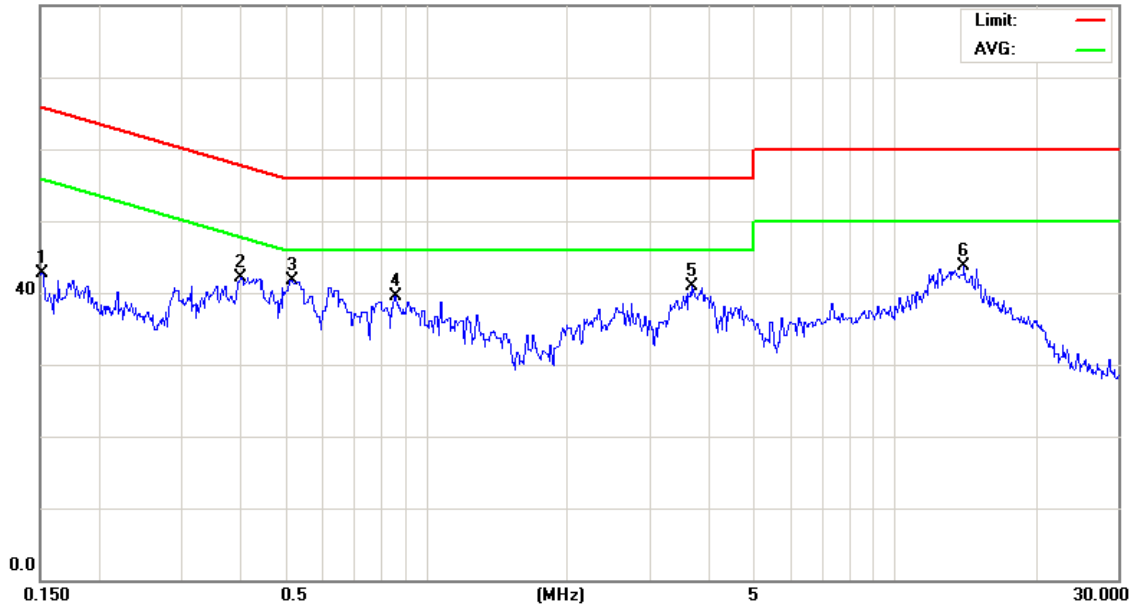
File :Raymond 103(WCDMA Band I

Data :#1

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9262

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1514	32.98	9.73	42.71	65.92	-23.21	peak	
2		0.4017	32.25	9.78	42.03	57.82	-15.79	peak	
3	*	0.5180	31.89	9.79	41.68	56.00	-14.32	peak	
4		0.8600	29.64	9.80	39.44	56.00	-16.56	peak	
5		3.6768	30.95	9.94	40.89	56.00	-15.11	peak	
6		14.0500	33.59	10.20	43.79	60.00	-16.21	peak	

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

●Reference Only



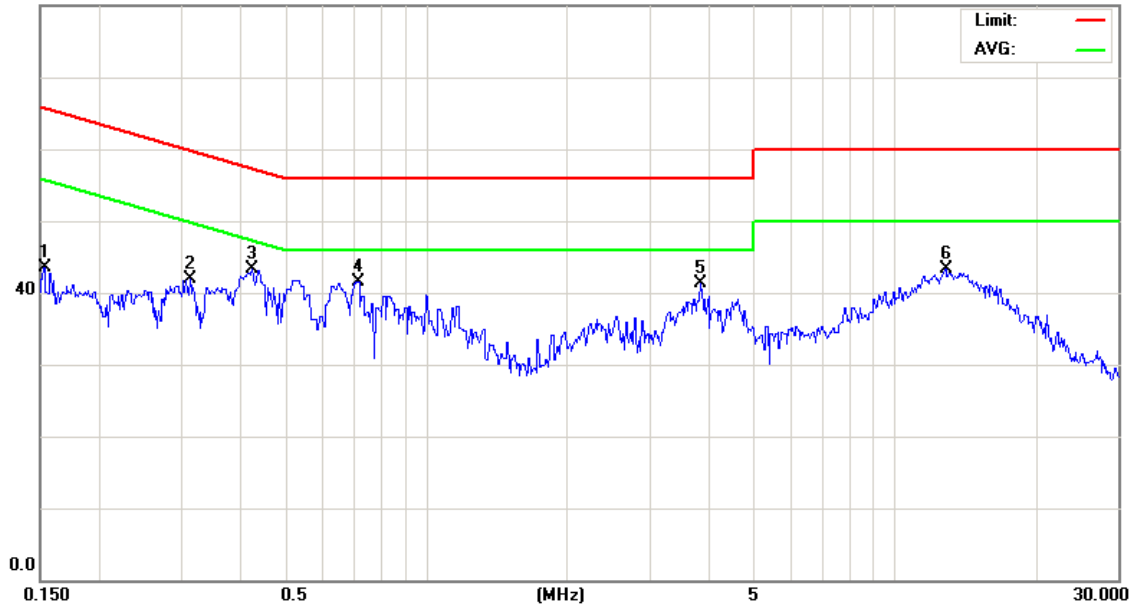
File :Raymond 103(WCDMA Band I

Data :#2

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9262

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1527	33.70	9.73	43.43	65.85	-22.42	peak	
2		0.3123	32.18	9.77	41.95	59.91	-17.96	peak	
3	*	0.4243	33.48	9.78	43.26	57.36	-14.10	peak	
4		0.7157	31.71	9.80	41.51	56.00	-14.49	peak	
5		3.8300	31.29	9.95	41.24	56.00	-14.76	peak	
6		12.8000	33.16	10.18	43.34	60.00	-16.66	peak	

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

●Reference Only



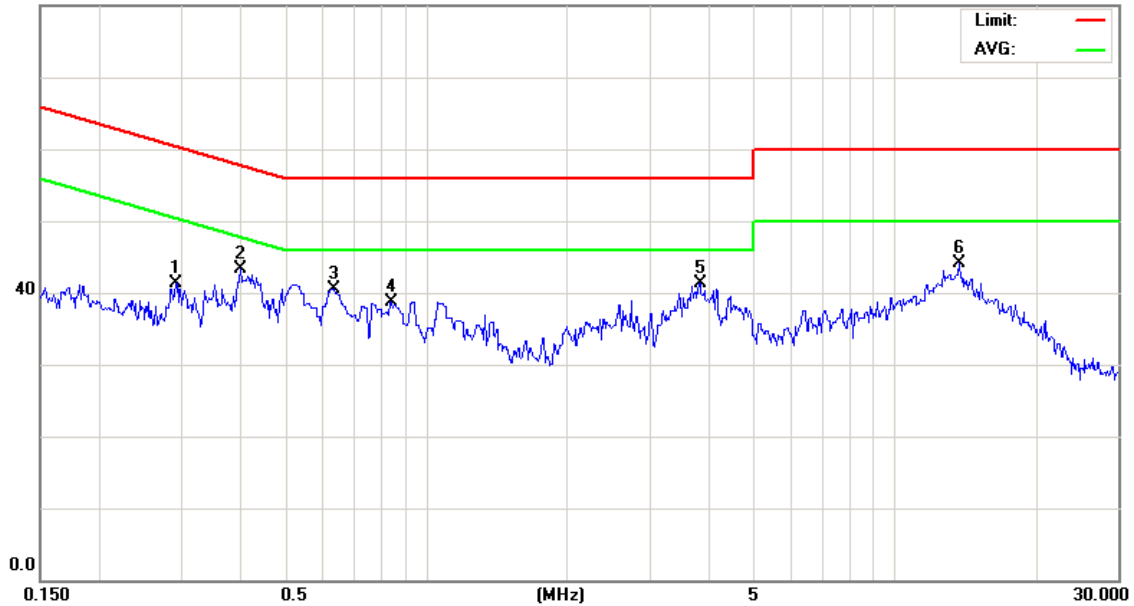
File :Raymond 103(WCDMA Band I

Data :#3

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9400

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2918	31.61	9.76	41.37	60.47	-19.10	peak	
2	*	0.4012	33.47	9.78	43.25	57.83	-14.58	peak	
3		0.6350	30.78	9.79	40.57	56.00	-15.43	peak	
4		0.8417	28.98	9.80	38.78	56.00	-17.22	peak	
5		3.8208	31.27	9.95	41.22	56.00	-14.78	peak	
6		13.7000	33.94	10.21	44.15	60.00	-15.85	peak	

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

●Reference Only



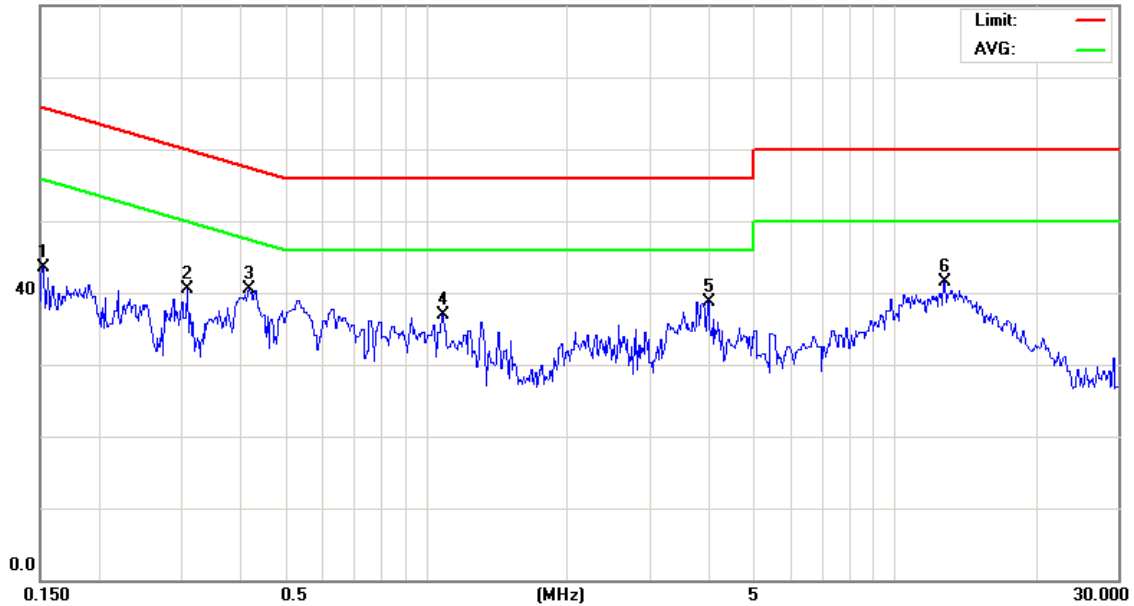
File :Raymond 103(WCDMA Band I

Data :#4

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9400

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1521	33.75	9.73	43.48	65.88	-22.40	peak	
2		0.3088	30.76	9.77	40.53	60.00	-19.47	peak	
3	*	0.4187	30.72	9.78	40.50	57.47	-16.97	peak	
4		1.0846	27.13	9.80	36.93	56.00	-19.07	peak	
5		3.9918	28.80	9.97	38.77	56.00	-17.23	peak	
6		12.7500	31.29	10.18	41.47	60.00	-18.53	peak	

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

●Reference Only



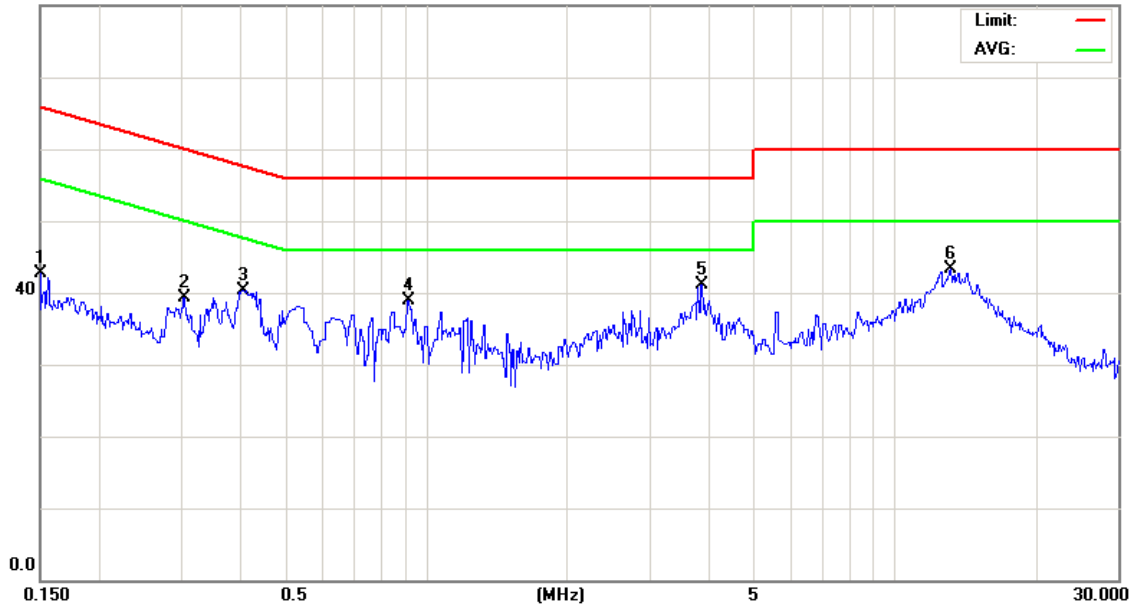
File :Raymond 103(WCDMA Band I

Data :#5

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9538

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	32.90	9.73	42.63	65.99	-23.36	peak	
2		0.3039	29.45	9.77	39.22	60.13	-20.91	peak	
3		0.4061	30.53	9.78	40.31	57.73	-17.42	peak	
4		0.9140	29.02	9.81	38.83	56.00	-17.17	peak	
5	*	3.8658	31.11	9.95	41.06	56.00	-14.94	peak	
6		13.1500	33.08	10.19	43.27	60.00	-16.73	peak	

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

●Reference Only



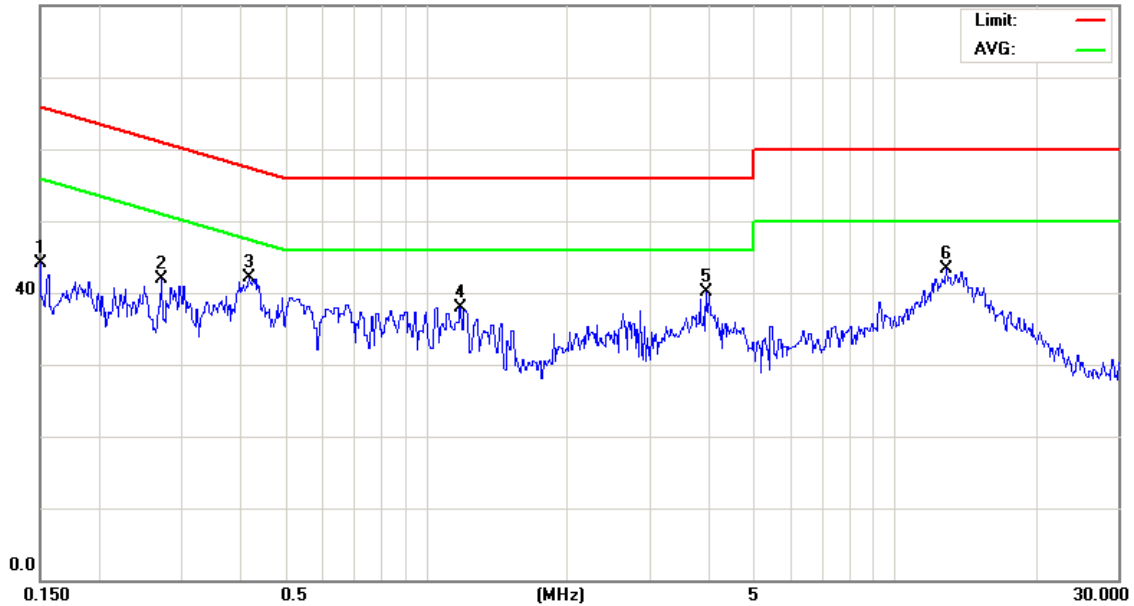
File :Raymond 103(WCDMA Band I

Data :#7

Date: 2008/4/24

Time:

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: Raymond 103

Mode: WCDMA Band II

Note: CH9538

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	34.39	9.73	44.12	65.99	-21.87	peak	
2		0.2725	32.11	9.76	41.87	61.04	-19.17	peak	
3	*	0.4178	32.27	9.78	42.05	57.49	-15.44	peak	
4		1.1836	28.20	9.80	38.00	56.00	-18.00	peak	
5		3.9559	30.09	9.98	40.07	56.00	-15.93	peak	
6		12.9000	33.07	10.18	43.25	60.00	-16.75	peak	

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

●Reference Only



5. List of Measurement Equipments

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Agilent	Spectrum analyzer	E4408B	MY45107753	May. 28, 2007	May. 28, 2008
R&S	Receiver	ESCI	100367	May. 23, 2007	May. 23, 2008
SCHWARZBECK	Trilog Broadband Antenna	VULB 9163	9163-270	Jun. 26, 2007	Jun. 26, 2008
SCHWARZBECK	Broadband Horn Antenna	BBHA 9120D	9120D-550	Jun. 26, 2007	Jun. 26, 2008
SCHWARZBECK	Broadband Horn Antenna	BBHA 9170	9170-320	Jun. 09, 2007	Jun. 09, 2008
Agilent	Amplifier	8447D	2944A10961	Jun. 09, 2007	Jun. 09, 2008
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	112387	Oct. 24, 2007	Oct. 24, 2008
Spectrum Analyzer	Agilent	E4445A	MY45300744	Nov. 29, 2007	Nov. 29, 2008
Loop Dipole	ETS-Lindgren	3127-1880	00052640	Jul. 02, 2007	Jul. 02, 2008
Loop Dipole	ETS-Lindgren	3127-836	00055272	Jun. 29, 2007	Jun. 29, 2008
Sleeve Dipole	ETS-Lindgren	3126-1845	00056670	Jun. 29, 2007	Jun. 29, 2008
Sleeve Dipole	ETS-Lindgren	3126-880	00052705	Jun. 29, 2007	Jun. 29, 2008
Anechoic Chamber	ETS-Lindgren	AMS 8500	S/N 102165	NA	
High Pass Filter	MICRO-TRONICS	HPM50108	020	NA	
High Pass Filter	MICRO-TRONICS	HPM50111	021	NA	
Circularly Polarized Communication Antennas	EMCO	3102	00051714	NA	
Pattern Measurement Software	ETS-Lindgren	EMQuest™ EMQ-100	NA	NA	
Desktop Computer with Windows XP		Dell Computers	NA	NA	
Antenna Positioner Controller	EMCO	2090	00052447	NA	
MAPS Positioner	EMCO	2010/2015	NA	NA	
Filter	K&L	5TNF-1700/2000-0.1N/N	166	NA	
Filter	K&L	3TNF-800/1000-0.2N/N	274	NA	
Attenuator	RADIALL	R41572000	0603033073	NA	
Splitter	Powercom	SGR-GFQ-2-D	41106609	NA	
Power divider	Agilent	87302C	3239A00760	NA	

6. Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$v(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty $U_c(y)$	1.27		
Measuring uncertainty for a level of confidence of 95% $U=2U_c(y)$	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$v(x_i)$	C_i	$C_i * v(x_i)$
	dB	Probability Distributio			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\sqrt{1} = 0.197$ Antenna VSWR $\sqrt{2} = 0.194$ Uncertainty= $20\log(1 - \sqrt{1} * \sqrt{2} * \sqrt{3})$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U=2U_c(y)$	4.72				