

EMC TEST REPORT

Report No. : EME-040333

Model No. : 35808

Issued Date : May 10, 2004

Applicant : SENTON Enterprises Limited
Flat 10, 17/F., Fotan Ind. Centre, 26-28 Au Pui Wan St.,
Fo Tan, Shatin, N. T. Hong Kong

Test By : Intertek Testing Services Taiwan Ltd.
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,
Shiang-Shan District, Hsinchu City, Taiwan

This test report consists of 36 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of Intertek Laboratory. The test result in this report only applies to the tested sample.

Project Engineer



Jackey Chiu

Reviewed By



Victor Wen

Table of Contents

Summary of Tests	3
1. General information	4
1.1 Identification of the EUT	4
1.2 Additional information about the EUT	4
1.3 Antenna description	5
2. Test specifications	6
2.1 Test standard	6
2.2 Operation mode	6
2.4 Test equipment	7
3. Radiated emission test FCC 15.249 (C)	8
3.1 Operating environment	8
3.2 Test setup & procedure	8
3.3 Emission limit	9
3.3.1 Fundamental and harmonics emission limits	9
3.3.2 General radiated emission limits	10
3.4 Radiated spurious emission test data	11
3.4.1 Measurement results: frequencies equal to or less than 1 GHz	11
3.4.2 Measurement results: frequency above 1GHz	13
3.4.3 Measurement results: Fundamental and harmonics emission	18
4. Conducted emission test FCC 15.207	24
4.1 Operating environment	24
4.2 Test setup & procedure	24
4.3 Emission limit	25
4.4 Conducted emission data FCC 15.207	26
5. Radiated emission on the band edge FCC 15.249(C)	28

Summary of Tests**5.8GHz Cordless Phone-Model: 35808
FCC ID: PEG35808**

Test	Reference	Results
Conducted Emission of AC Power	15.207	Complies
Radiated Emission test	15.249(c), 15.209	Complies

1. General information

1.1 Identification of the EUT

Applicant	: SENTON Enterprises Limited
Product	: 5.8GHz Cordless Phone
Model No.	: 35808
FCC ID.	: PEG35808
Frequency Range (Base)	: 5803.019 MHz ~ 5816.019MHz
Frequency Range (Handset)	: 2468.000 MHz ~ 2479.700MHz
Channel Number	: 40 channels
Frequency of Each Channel (Base)	: $5803.019 + 0.333333k$, $k=0\sim39$
Frequency of Each Channel (Handset)	: $2468 + 0.3k$, MHz, $k=0\sim39$
Type of Modulation	: FM
Power Supply (Base)	: 120Vac, 60Hz with adapter (U090050D)
Rated Power (Handset)	: 3.6Vdc battery
Power Cord	: N/A
Sample Received	: Apr. 12, 2004
Test Date(s)	: Apr. 12, 2004 ~ May 6, 2004

1.2 Additional information about the EUT

The EUT is a Cordless Phone, it consists one handset, which operated at 2468.000MHz - 2479.700MHz and one base which operated at 5803.019MHz. - 5816.019MHz.

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi

Antenna Type : Copper Wire

Connector Type : N/A

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

During the conduction test, it operated at charging mode, while in other test, it works in status of continuously transmitting.

2.4 Test equipment

Equipment	Brand	Frequency range	Model No.	Series No.	Last Cal.Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	825788/014	Feb. 18, 2004
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	825428/005	June 10, 2003
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	July 10, 2003
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	100186	Oct. 9, 2003
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5890	Oct. 15, 2003
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	June 20, 2003
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3133	Feb. 21, 2004
Turn Table	HDGmbH	N/A	DS 420S	420/669/01	N/A
Antenna Tower	HDGmbH	N/A	MA 240	240/573	N/A
Microwave Amplifier	Agilent	2GHz~26.5GHz	8348A	3111A00567	Dec. 20, 2003
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5	EC344	Jan. 20, 2004

Note: The above equipments are within the valid calibration period.

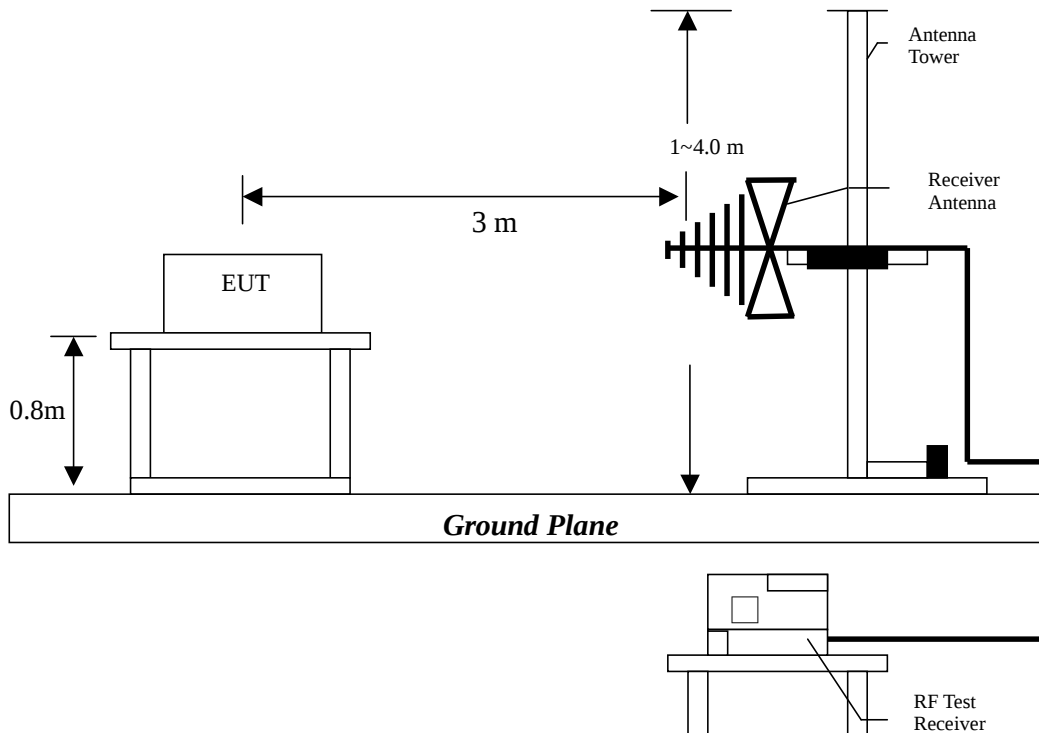
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature:	21	°C	(10-40°C)
Relative Humidity:	59	%	(10-90%)
Atmospheric Pressure	1023	hPa	(860-1060hPa)

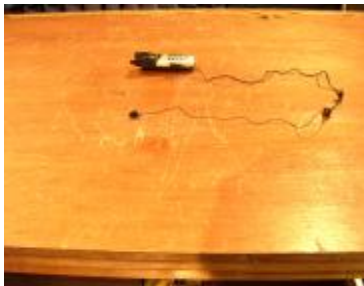
3.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

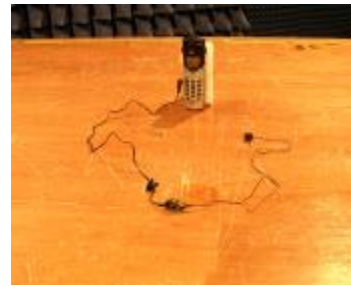
The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.



Setup 1



Setup 2



Setup 3

The worst case condition was found in setup3 and recorded in this report.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
2468MHz~2479.7MHz (Handset)	50	94	500	54
5803.019MHz~ 5816.019MHz (Base)	50	94	500	54

3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	15.209 Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is ± 4.98 dB.

Expanded uncertainty (k=2) of conducted emission measurement is ± 2.02 dB.

3.4 Radiated spurious emission test data

3.4.1 Measurement results: frequencies equal to or less than 1 GHz

EUT : 35808
Test Unit : Base
Worst Case Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
39.700	QP	V	12.74	17.5	30.24	40	-9.76	125	320
80.400	QP	V	10.05	22.4	32.45	40	-7.55	156	188
94.000	QP	V	10.16	17.1	27.26	43.5	-16.24	111	136
167.770	QP	V	14.44	8.7	23.14	43.5	-20.36	102	333
208.550	QP	V	12.52	9.7	22.22	43.5	-21.28	125	201
260.990	QP	V	12.9	8.09	20.99	46	-25.01	137	238
80.440	QP	H	10.05	17.3	27.35	40	-12.65	108	77
94.000	QP	H	10.16	16.8	26.96	43.5	-16.54	171	251
107.660	QP	H	11.31	11.88	23.19	43.5	-20.31	165	88
117.980	QP	H	12.23	9.6	21.83	43.5	-21.67	126	134
167.700	QP	H	14.44	9.89	24.33	43.5	-19.17	102	165
408.270	QP	H	16.61	6.9	23.51	46	-22.49	111	212

Remark:

1. Corrected Level = Reading Level + Correction Factor

2. Correction Factor = Antenna Factor + Cable Loss

EUT : 35808
Test Unit : Handset at setup 3
Worst Case Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
794.940	QP	V	24.26	2.8	27.06	46	-18.94	125	266
821.550	QP	V	24.54	3.83	28.37	46	-17.63	168	321
877.800	QP	V	25.05	3.15	28.2	46	-17.8	142	153
910.880	QP	V	25.37	2.77	28.14	46	-17.86	145	123
934.880	QP	V	25.63	3.21	28.84	46	-17.16	145	112
821.510	QP	H	24.54	7.29	31.83	46	-14.17	111	321
827.330	QP	H	24.59	2.9	27.49	46	-18.51	108	215
893.990	QP	H	25.19	4.2	29.39	46	-16.61	115	288
914.600	QP	H	25.39	3.7	29.09	46	-16.91	125	243
941.820	QP	H	25.68	3.5	29.18	46	-16.82	182	144
957.300	QP	H	25.85	3.1	28.95	46	-17.05	164	254

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

3.4.2 Measurement results: frequency above 1GHz

EUT : 35808
 Antenna Polariz : Vertical
 Test Unit : Base
 Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
9284.76	PK	V	38.24	42.032	45.708	49.5	74	-24.5	147	326
9284.76	AV	V	38.24	42.032	39.898	43.69	54	-10.31	147	326

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

EUT : 35808
 Antenna Polariz : Horizontal
 Test Unit : Base
 Test Condition : Tx at low channel

Test Result :

No spurious emission was found above the spectrum analyzer's noise floor.

The noise floor are listed as below:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV
 26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV
 26.5GHz-40GHz: 31.5dBuV

EUT : 35808
Antenna Polariz : Vertical
Test Unit : Base
Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
9295.1	PK	V	38.24	42.032	46.178	49.97	74	-24.03	138	322
9295.1	AV	V	38.24	42.032	41.248	45.04	54	-8.96	138	322

Remark:

1. Corrected Level = Reading Level + Correction Factor—Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

EUT : 35808
Antenna Polariz : Horizontal
Test Unit : Base
Test Condition : Tx at low channel

Test Result:

No spurious emission was found above the spectrum analyzer's noise floor.
The noise floor are listed as below:

For PK:

1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV
26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV
26.5GHz-40GHz: 31.5dBuV

EUT : 35808
Antenna Polariz : Vertical/ Horizontal
Test Unit : Base
Test Condition : Tx at high channel

Test Result :

No spurious emission was found above the spectrum analyzer's noise floor.

The noise floor are listed as below:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

26.5GHz-40GHz: 31.5dBuV

EUT : 35808
Antenna Polariz : Vertical/ Horizontal
Test Unit (Worst Case Condition) : Handset (Setup 3)
Test Condition : Tx at low, middle, high channel

Test Result :

No spurious emission was found above the spectrum analyzer's noise floor.

The noise floor are listed as below:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

3.4.3 Measurement results: frequency range 26.5GHz to 40GHz

EUT : 35808
Antenna Polariz : Vertical/ Horizontal
Test Unit : Base
Test Condition : Tx at low, middle, high channel

Test Result :

No spurious emission was found above the spectrum analyzer's noise floor.

The noise floor are listed as below:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

26.5GHz-40GHz: 31.5dBuV

3.4.4 Measurement results: Fundamental and harmonics emission

EUT : 35808

Test Unit : Base

Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
5802.990	PK	V	39.57	38.632	81.778	80.84	114	-33.16	165	145
5802.990	AV	V	39.57	38.632	79.938	79	94	-15	165	145
5802.980	PK	H	39.57	38.632	83.708	82.77	114	-31.23	110	150
5802.980	AV	H	39.57	38.632	82.078	81.14	94	-12.86	110	150

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

26.5GHz-40GHz: 31.5dBuV

EUT : 35808
Test Unit : Base
Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
5809.380	PK	V	39.57	38.632	82.348	81.41	114	-32.59	109	150
5809.380	AV	V	39.57	38.632	80.308	79.37	94	-14.63	109	150
5809.390	PK	H	39.57	38.632	84.148	83.21	114	-30.79	132	150
5809.390	AV	H	39.57	38.632	82.718	81.78	94	-12.22	132	150

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV
26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV
26.5GHz-40GHz: 31.5dBuV

EUT : 35808

Test Unit : Base

Test Condition : Tx at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
5815.970	PK	V	39.57	38.632	83.278	82.34	114	-31.66	178	345
5815.970	AV	V	39.57	38.632	81.448	80.51	94	-13.49	178	345
5816.000	PK	H	39.57	38.632	84.038	83.1	114	-30.9	165	145
5816.000	AV	H	39.57	38.632	82.518	81.58	94	-12.42	165	145

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

26.5GHz-40GHz: 41.5dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

26.5GHz-40GHz: 31.5dBuV

EUT : 35808
Test Unit (Worst Case Condition) : Handset (Setup 3)
Test Condition : Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2468.010	PK	V	39.55	30.372	92.958	83.78	114	-30.22	125	118
2468.010	AV	V	39.55	30.372	92.618	83.44	94	-10.56	125	118
2468.020	PK	H	39.55	30.372	91.728	82.55	114	-31.45	143	360
2468.020	AV	H	39.55	30.372	91.308	82.13	94	-11.87	143	360

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : 35808
 Test Unit (Worst Case Condition) : Handset (Setup 3)
 Test Condition : Tx at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2473.680	PK	V	39.55	30.372	93.098	83.92	114	-30.08	114	82
2473.680	AV	V	39.55	30.372	92.198	83.02	94	-10.98	114	82
2473.710	PK	H	39.55	30.372	91.888	82.71	114	-31.29	163	127
2473.710	AV	H	39.55	30.372	91.158	81.98	94	-12.02	163	127

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

EUT : 35808
Test Unit (Worst Case Condition) : Handset (Setup 3)
Test Condition : Tx at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2479.690	PK	V	39.55	30.372	97.058	87.88	114	-26.12	123	119
2479.690	AV	V	39.55	30.372	96.308	87.13	94	-6.87	123	119
2479.730	PK	H	39.55	30.372	94.558	85.38	114	-28.62	140	12
2479.730	AV	H	39.55	30.372	94.188	85.01	94	-8.99	140	12

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

For PK:

1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:

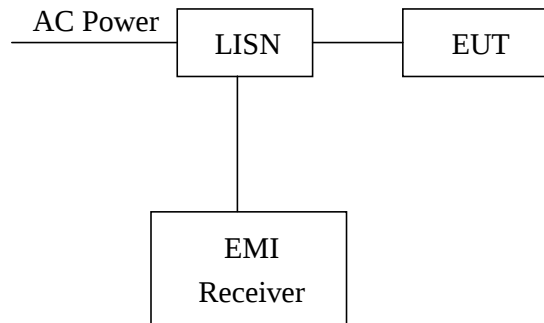
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

4. Conducted emission test FCC 15.207

4.1 Operating environment

Temperature:	23	°C	(10-40°C)
Relative Humidity:	55	%	(10-90%)
Atmospheric Pressure	1022	hPa	(860-1061hPa)

4.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

4.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.

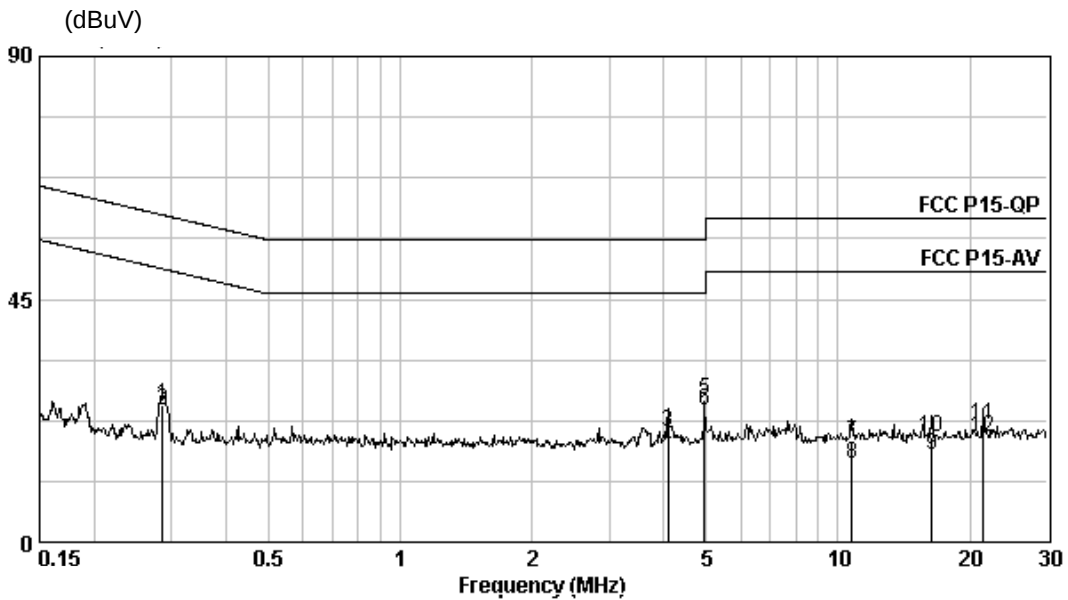
4.4 Conducted emission data FCC 15.207

(1) Line

EUT : 35808

Test Condition : Charging mode

Freq. (MHz)	Correction Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.286	0	25.28	60.64	-35.36	QP
0.286	0	24.29	50.64	-26.35	AVERAGE
4.095	0	20.59	56	-35.41	QP
4.095	0	17.37	46	-28.63	AVERAGE
4.964	0	26.25	56	-29.75	QP
4.964	0	24.39	46	-21.61	AVERAGE
10.738	0	18.35	60	-41.65	QP
10.738	0	14.37	50	-35.63	AVERAGE
16.381	0	19.31	60	-40.69	QP
16.381	0	16.28	50	-33.72	AVERAGE
21.478	0	21.73	60	-38.27	QP
21.478	0	19.56	50	-30.44	AVERAGE

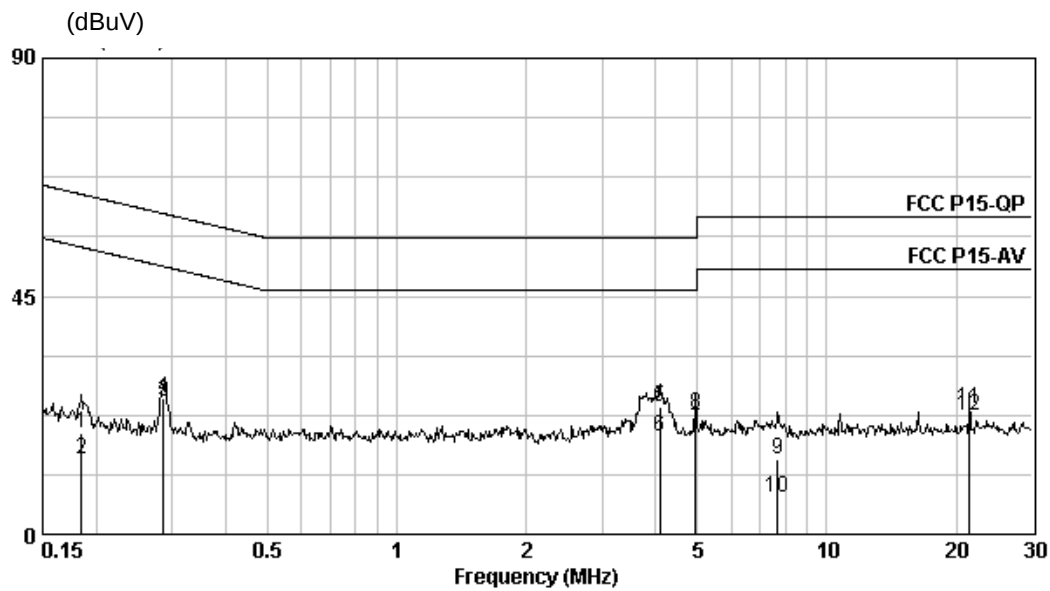


(2) Neutral

EUT : 35808

Test Condition : Charging mode

Freq. (MHz)	Correction Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.185	0	19.12	64.28	-45.16	QP
0.185	0	14.24	54.28	-40.04	AVERAGE
0.286	0	25.77	60.64	-34.87	QP
0.286	0	24.96	50.64	-25.68	AVERAGE
4.095	0	23.99	56	-32.01	QP
4.095	0	18.47	46	-27.53	AVERAGE
4.958	0	22.91	56	-33.09	QP
4.958	0	19.92	46	-26.08	AVERAGE
7.684	0	14.32	60	-45.68	QP
7.684	0	6.81	50	-43.19	AVERAGE
21.478	0	23.81	60	-36.19	QP
21.478	0	22.38	50	-27.62	AVERAGE

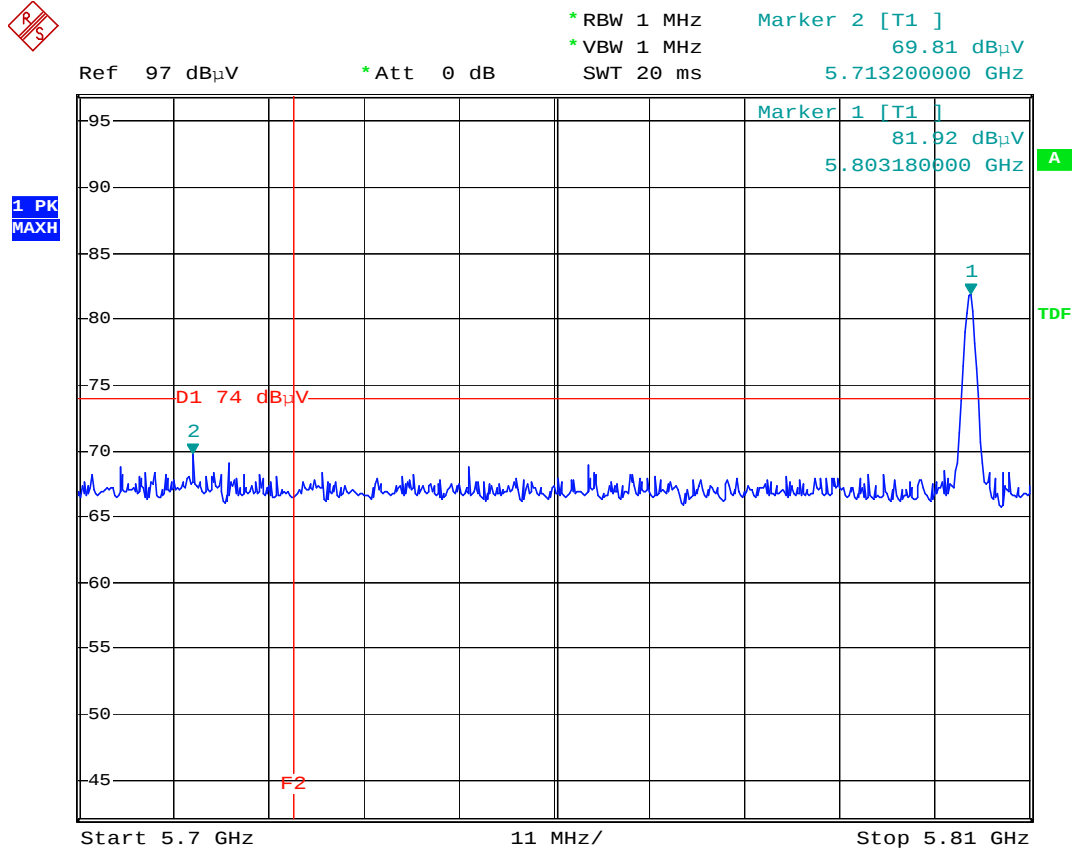


5. Radiated emission on the band edge FCC 15.249(C)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 5803.019~ 5816.019MHz, Handset: 2468MHz ~ 2479.7MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

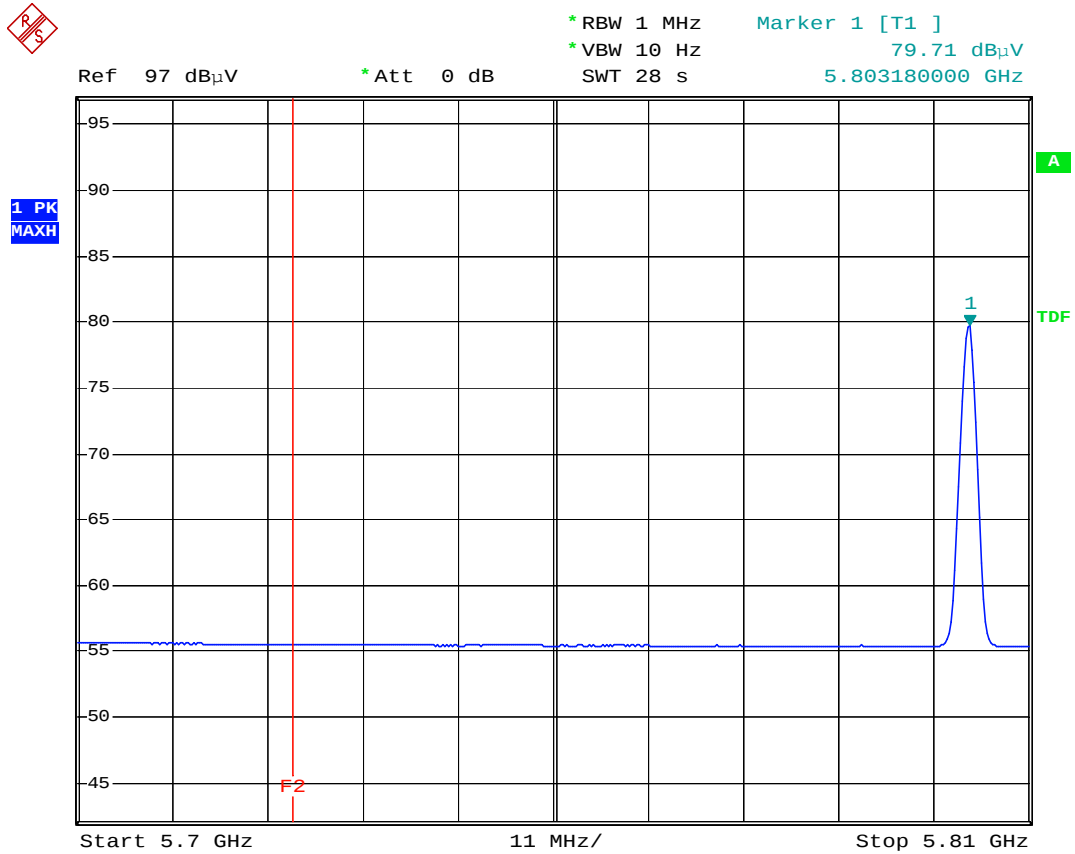
Test Unit: Base



Comment: Band-edge test at low channel

Comment: Peak detector F2=5725MHz

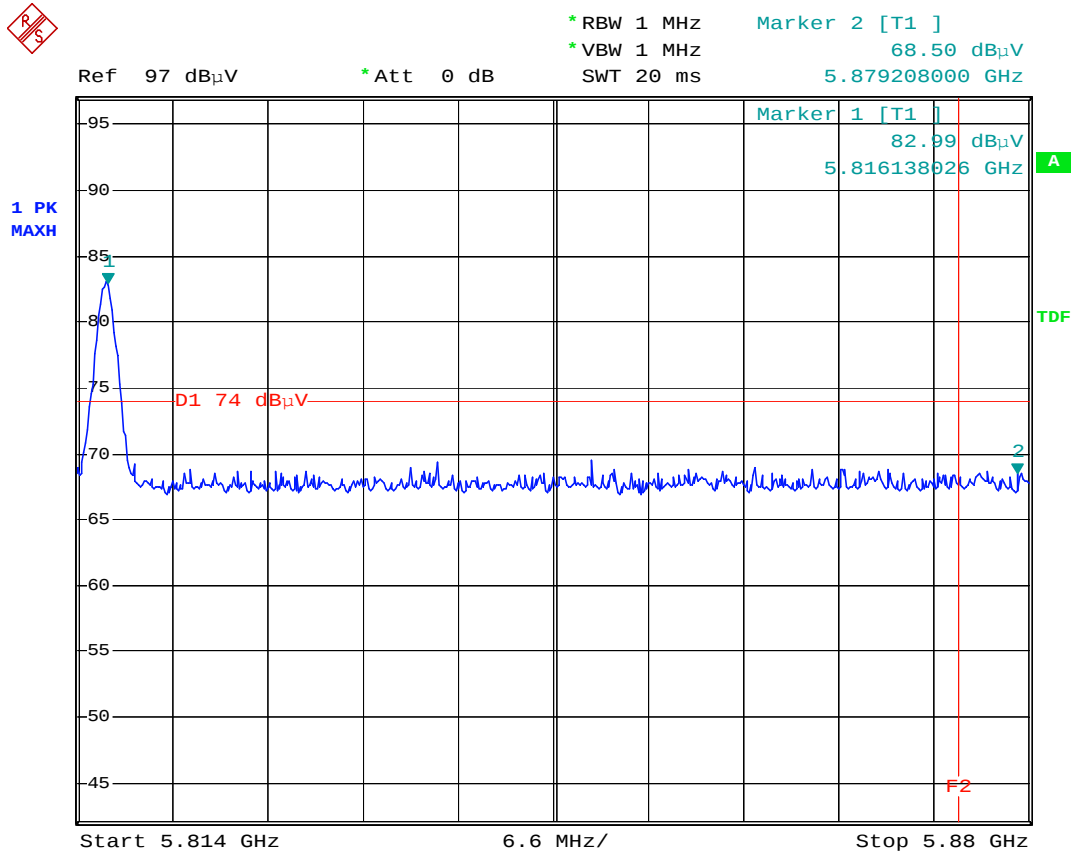
Date: 10.MAY.2004 16:30:58



Comment: Band-edge test at low channel

Comment: Average detector F2=5725MHz

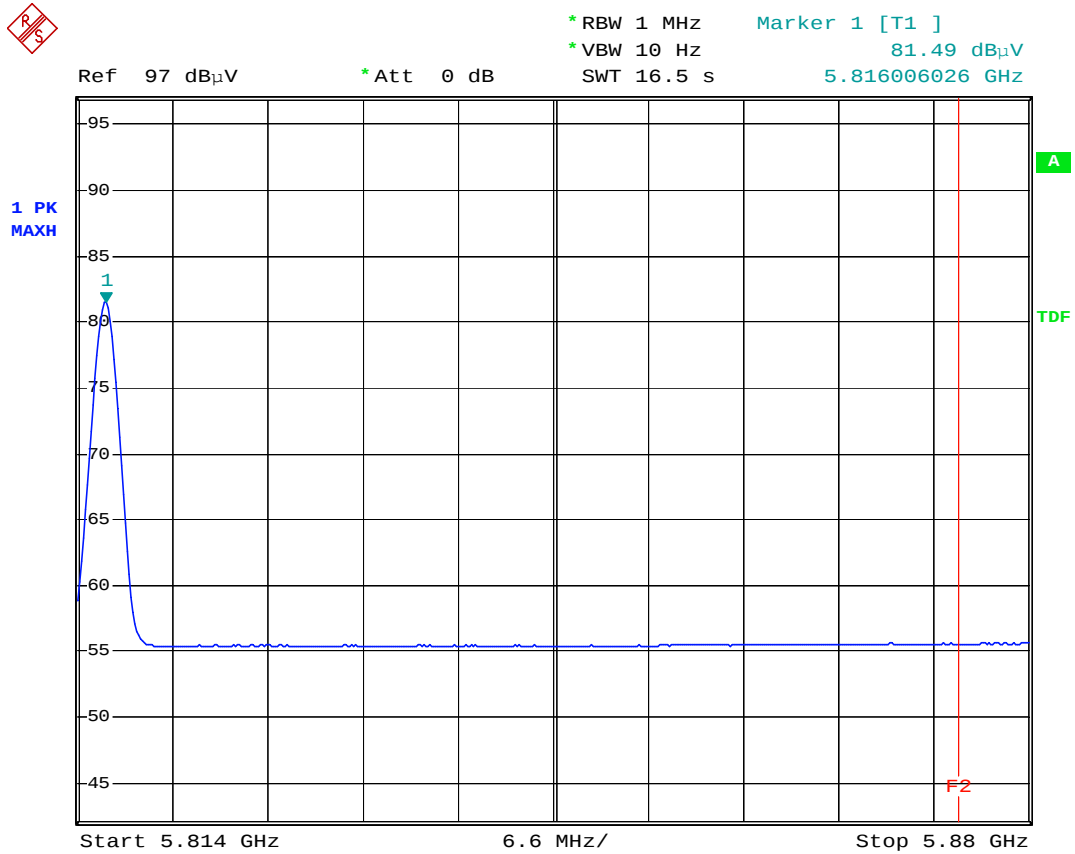
Date: 10.MAY.2004 16:36:38



Comment: Band-edge test at high channel

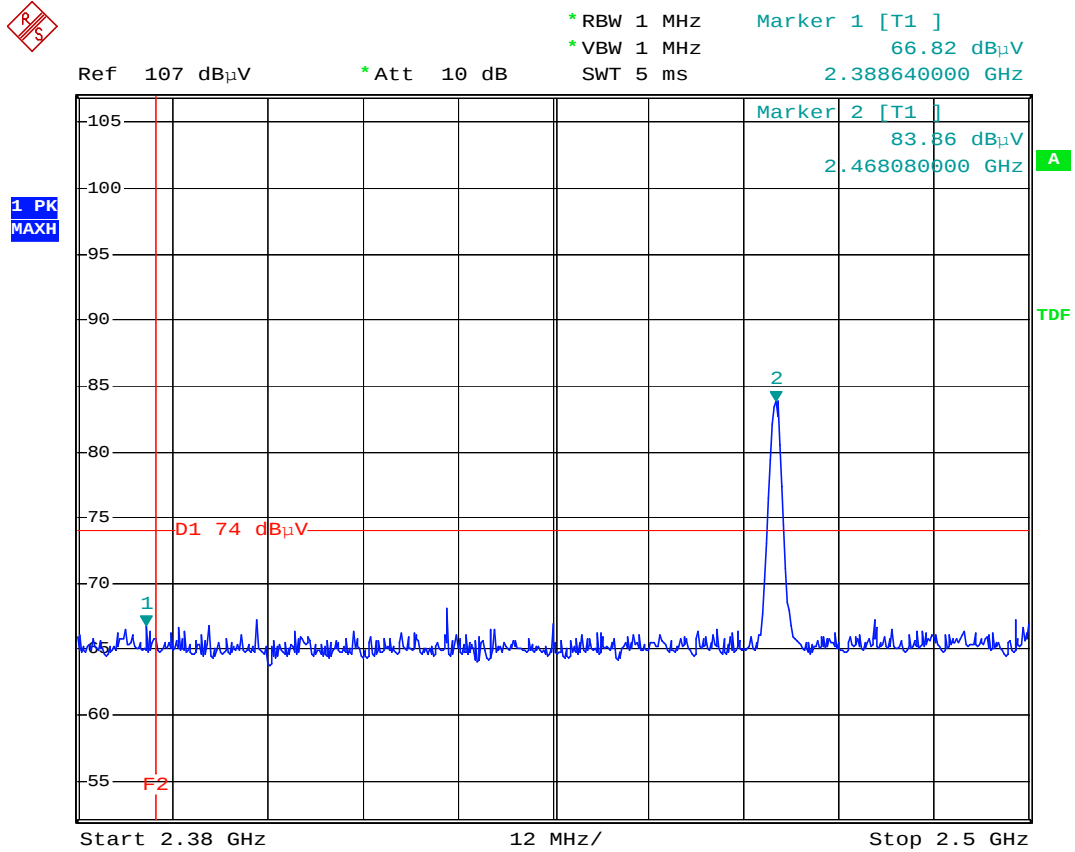
Comment: Peak detector F2=5875MHz

Date: 3.MAY.2004 17:35:14



Comment: Band-edge test at high channel
 Comment: Average : detector F2=5875MHz
 Date: 3.MAY.2004 17:36:18

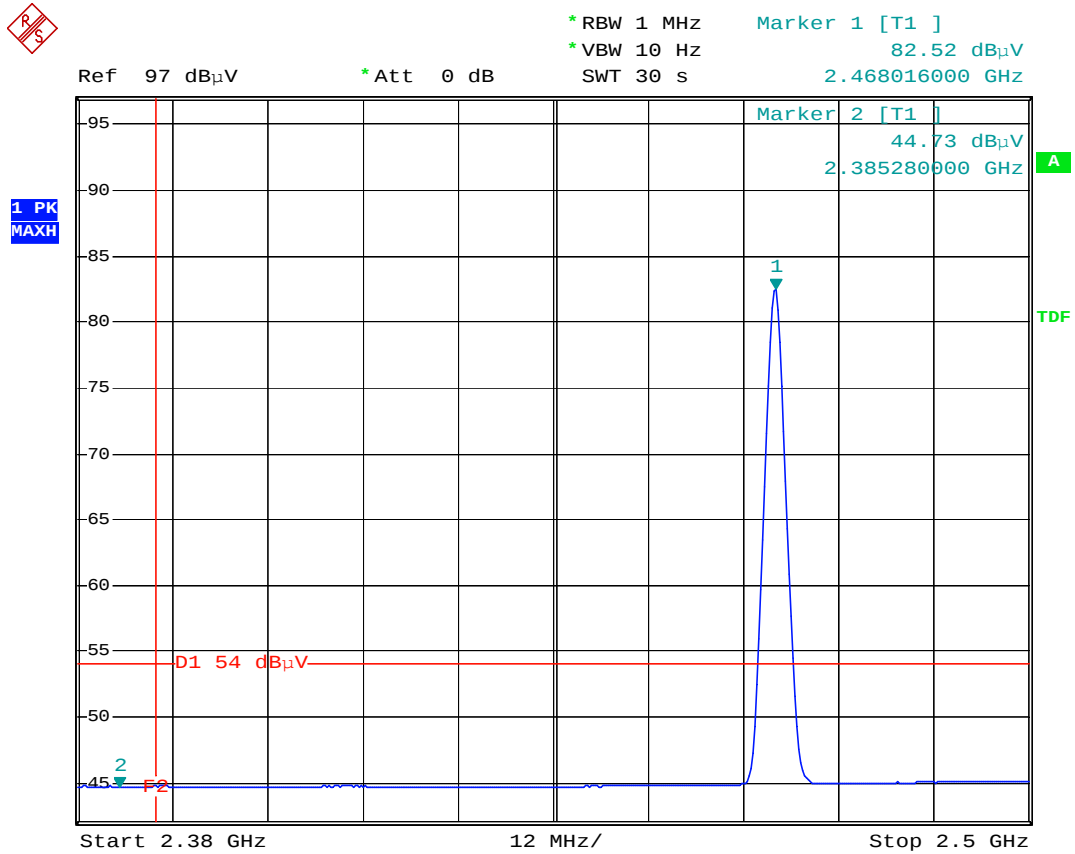
Test Unit: Handset



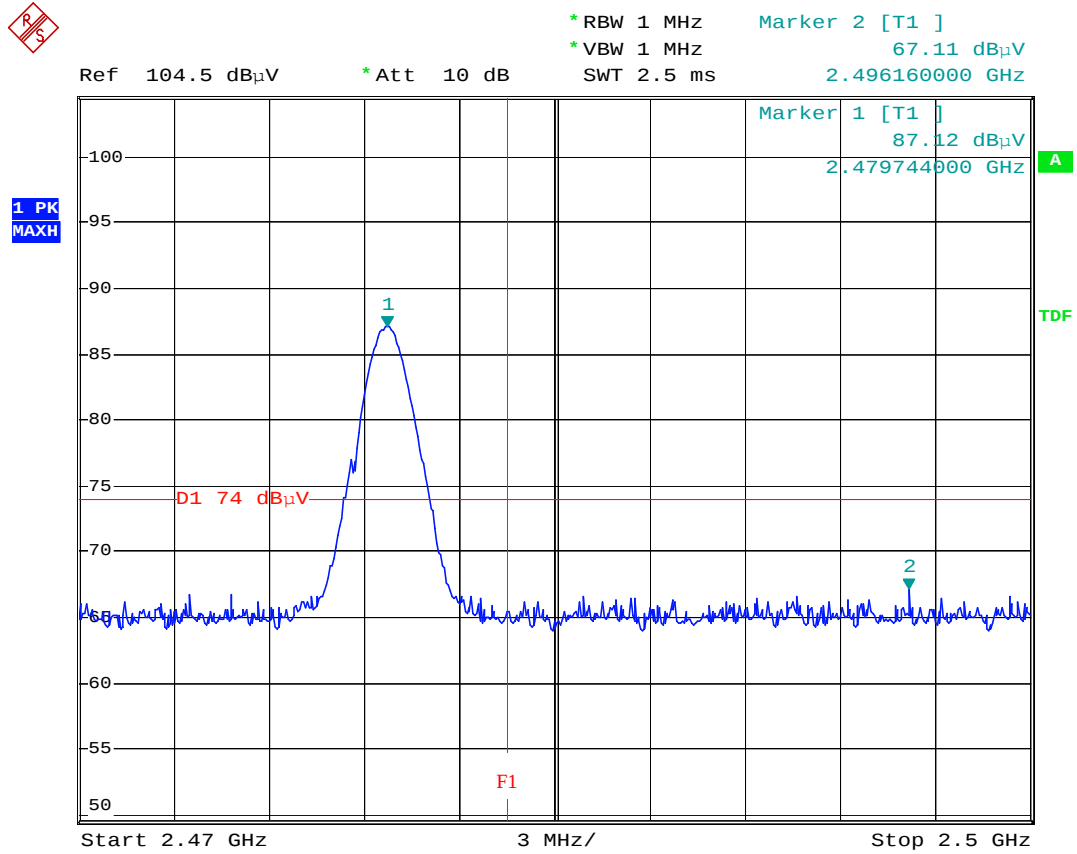
Comment: Band-edge test at low channel

Comment: Peak detector F2=2390MHz

Date: 6.MAY.2004 16:49:14



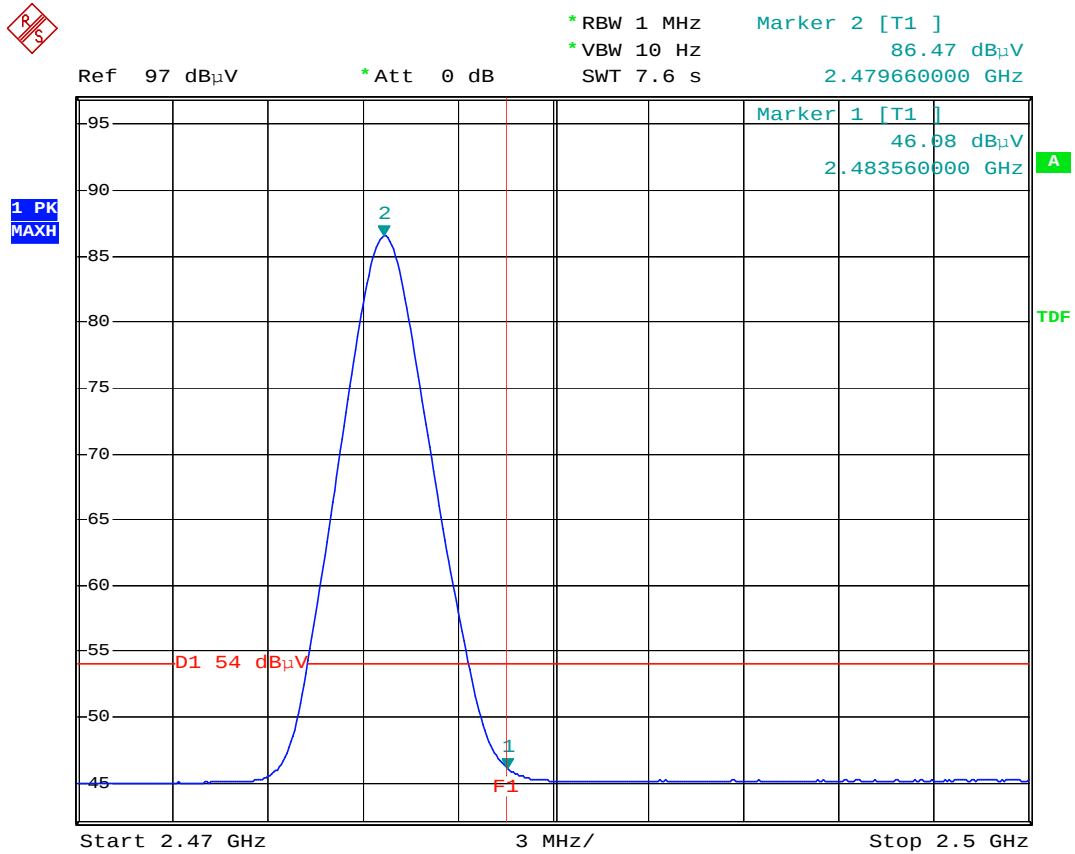
Comment: Band-edge test at low channel
 Comment: Average detector F2=2390MHz
 Date: 6.MAY.2004 16:51:01



Comment: Band-edge test at high channel

Comment: Peak detector F1=2483.5MHz

Date: 6.MAY.2004 16:20:51



Comment: Band-edge test at high channel
 Comment: Average detector F1=2483.5MHz
 Date: 6.MAY.2004 16:21:41