

EMC

TEST REPORT

Report No. : EME-031233

Model No. : 35807

Issued Date : Feb. 2, 2004

Applicant : SENTON Enterprises Limited
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Project Engineer

Jackey Chiu

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Reviewed By

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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
1.4 Peripherals equipment.....	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
4. Conducted emission test FCC 15.207.....	19
4.1 Operating environment.....	19
4.2 Test setup & procedure.....	19
4.3 Emission limit.....	20
4.4 Conducted emission data FCC 15.207	21
5. Radiated emission on the band edge FCC 15.249(C).....	23

Summary of Tests**5.8GHz Cordless Phone -Model: 35807**
FCC ID: PEG35800-7

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.	: 35807
FCC ID.	: PEG35800-7
Frequency Range (Base)	: 5803.019~ 5816.019MHz
Frequency Range (Handset)	: 2468MHz ~ 2479.7MHz
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
Rated Power (Handset)	: 3.6Vdc battery
Power Cord	: N/A
Sample Received	: Nov. 4, 2003
Test Date(s)	: Nov. 4, 2003 to Jan. 27, 2004

1.2 Additional information about the EUT

The EUT is a Cordless Phone, it consists one handset, which operated at 2468MHz - 2479.7MHz and one base which operated at 5803.019 - 5816.019MHz.

We verified that 35800 is series model to 35807 (EUT), for these models are identical in hardware aspect, and the different is 35807 with caller ID function, 35800 without.

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 : Soldering

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.	FCC ID
Phone	Tentel	K-903S	0514000941	FCC DoC Approved

1.5 Supporting equipment

Peripherals	Manufacturer	Product No.	Serial No.
Exchange Board	Tentel	250-00193-07	94948

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 spurious emission test, the EUT worked in the status of continuously transmitting and operated at charging mode during conduction test.

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, 2003
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
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5890	Sep. 19, 2003
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	June 20, 2003
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3133	Feb. 21, 2003
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, 2003

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

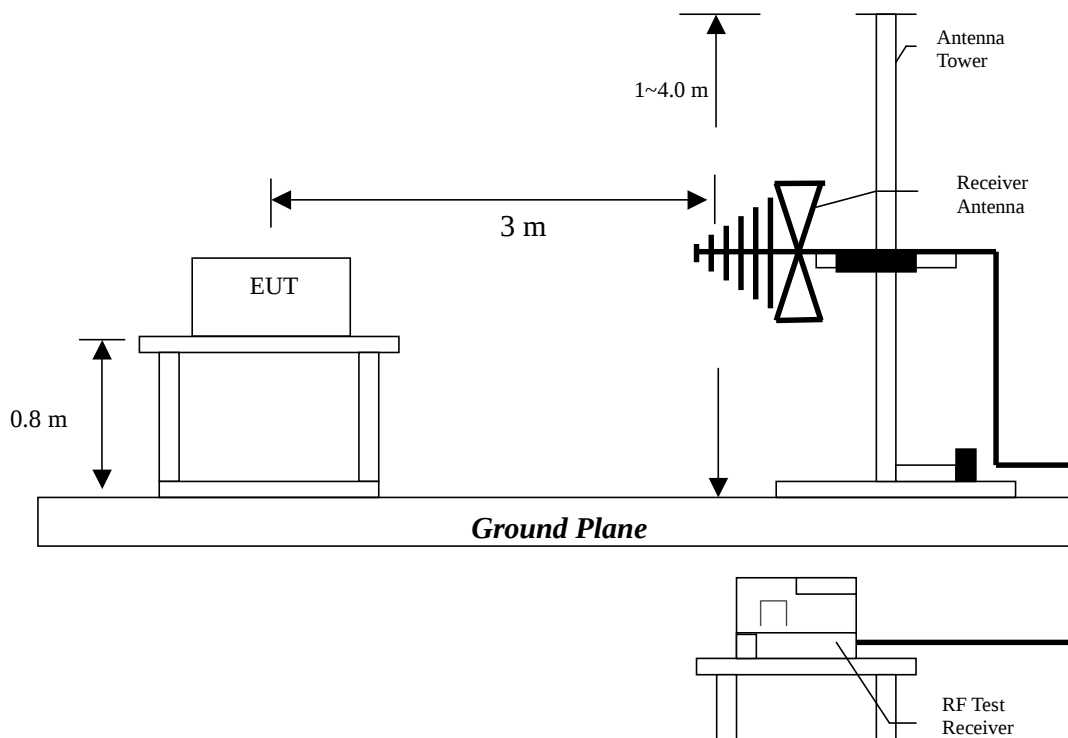
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature:	21	°C	(10-40°C)
Relative Humidity:	55	%	(10-90%)
Atmospheric Pressure	1010	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 setup1 and recorded in this report.

The EUT configuration please refers 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)
2468~2479.7(Handset)	50	94	500	54
5803.019~ 5816.019(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 : 35807
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)
742.00000	QP	V	22.60	3.30	25.90	46.00	-20.10	152	16
817.99000	QP	V	23.89	5.99	29.88	46.00	-16.12	129	252
842.59000	QP	V	24.46	3.70	28.16	46.00	-17.84	130	165
852.99000	QP	V	24.39	3.29	27.68	46.00	-18.32	110	352
866.98000	QP	V	24.39	3.30	27.69	46.00	-18.31	115	333
916.00000	QP	V	24.76	3.80	28.56	46.00	-17.44	128	236
47.99000	QP	H	13.05	2.56	15.61	40.00	-24.39	115	62
148.26000	QP	H	14.27	1.40	15.67	43.50	-27.83	162	15
709.99000	QP	H	22.22	3.26	25.48	46.00	-20.52	198	56
792.21000	QP	H	23.49	3.33	26.82	46.00	-19.18	154	123
817.66000	QP	H	23.89	7.59	31.48	46.00	-14.52	212	255
889.40000	QP	H	24.51	3.20	27.71	46.00	-18.29	253	310

Remark:

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

EUT : 35807
 Test Unit : Handset (setup 1)
 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)
711.51000	QP	V	22.22	1.55	23.77	46.00	-22.23	147	163
758.65000	QP	V	23.40	1.03	24.43	46.00	-21.57	163	155
809.56000	QP	V	23.89	1.06	24.95	46.00	-21.05	154	275
822.69000	QP	V	23.89	6.51	30.40	46.00	-15.60	145	159
885.53000	QP	V	24.51	0.74	25.25	46.00	-20.75	349	180
905.23000	QP	V	24.76	0.88	25.64	46.00	-20.36	147	223
707.13000	QP	H	22.22	1.66	23.88	46.00	-22.13	137	88
724.95000	QP	H	22.22	1.73	23.95	46.00	-22.05	140	200
822.66000	QP	H	23.89	9.43	33.32	46.00	-12.68	100	0
851.31000	QP	H	24.39	0.08	24.47	46.00	-21.53	132	157
905.39300	QP	H	24.76	1.58	26.34	46.00	-19.66	147	222
900.07000	QP	H	24.76	1.52	26.28	46.00	-19.72	152	356

Remark:

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

3.4.2 Measurement results: frequency above 1GHz

EUT : 35807

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)
5803.019	PK	V	33.035	38.966	85.469	91.4	114	-22.6	168	253
5803.019	AV	V	33.035	38.966	74.959	80.89	94	-13.11	168	253
5803.019	PK	H	33.035	38.966	86.159	92.09	114	-21.91	143	79
5803.019	AV	H	33.035	38.966	77.699	83.63	94	-10.37	143	79

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: 50dBuV

3GHz-14GHz: 54dBuV

14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV

3GHz-14GHz: 46dBuV

14GHz-26.5GHz: 46.5dBuV

EUT : 35807
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)
5809.352	PK	V	33.035	38.966	84.499	90.43	114	-23.57	129	339
5809.352	AV	V	33.035	38.966	74.619	80.55	94	-13.45	129	339
5809.352	PK	H	33.035	38.966	85.759	91.69	114	-22.31	167	81
5809.352	AV	H	33.035	38.966	76.659	82.59	94	-11.41	167	81

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: 50dBuV
3GHz-14GHz: 54dBuV
14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV
3GHz-14GHz: 46dBuV
14GHz-26.5GHz: 46.5dBuV

EUT : 35807
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)
5816.019	PK	V	33.035	38.966	84.519	90.45	114	-23.55	159	332
5816.019	AV	V	33.035	38.966	74.449	80.38	94	-13.62	159	332
5816.019	PK	H	33.035	38.966	86.059	91.99	114	-22.01	159	83
5816.019	AV	H	33.035	38.966	77.589	83.52	94	-10.48	159	83

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: 50dBuV
3GHz-14GHz: 54dBuV
14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV
3GHz-14GHz: 46dBuV
14GHz-26.5GHz: 46.5dBuV

EUT : 35807
 Test Unit (Worst Case Condition) : Handset (setup 1)
 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	PK	V	33.74	30.542	89.048	85.85	114	-28.15	136	77
2468	AV	V	33.74	30.542	88.788	85.59	94	-8.41	136	77
2468	PK	H	33.74	30.542	84.518	81.32	114	-32.68	145	28
2468	AV	H	33.74	30.542	84.258	81.06	94	-12.94	145	28
6730	PK	V	33.795	39.166	46.629	52	74	-22	124	151
6730	AV	V	33.795	39.166	39.269	44.64	54	-9.36	124	151
10094	PK	V	36.03	43.684	46.976	54.63	74	-19.37	126	33
10094	AV	V	36.03	43.684	37.466	45.12	54	-8.88	126	33
10094	PK	H	36.03	43.684	49.846	57.5	74	-16.5	129	131
10094	AV	H	36.03	43.684	43.936	51.59	54	-2.41	129	131

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: 50dBuV
 3GHz-14GHz: 54dBuV
 14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV
 3GHz-14GHz: 46dBuV
 14GHz-26.5GHz: 46.5dBuV

EUT : 35807
Test Unit (Worst Case Condition) : Handset (setup 1)
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)
2473.7	PK	V	33.74	30.542	89.188	85.99	114	-28.01	145	77
2473.7	AV	V	33.74	30.542	88.498	85.3	94	-8.7	145	77
2473.7	PK	H	33.74	30.542	86.098	82.9	114	-31.1	143	20
24737	AV	H	33.74	30.542	85.718	82.52	94	-11.48	143	20
6730	PK	V	33.795	39.166	46.709	52.08	74	-21.92	124	151
6730	AV	V	33.795	39.166	39.279	44.65	54	-9.35	124	151
10094	PK	V	36.03	43.684	47.376	55.03	74	-18.97	131	33
10094	AV	V	36.03	43.684	37.356	45.01	54	-8.99	131	33
10094	PK	H	36.03	43.684	50.716	58.37	74	-15.63	139	131
10094	AV	H	36.03	43.684	44.236	51.89	54	-2.11	139	131

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: 50dBuV
3GHz-14GHz: 54dBuV
14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV
3GHz-14GHz: 46dBuV
14GHz-26.5GHz: 46.5dBuV

EUT : 35807
Test Unit (Worst Case Condition) : Handset (setup 1)
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)
2479.7	PK	V	33.74	30.542	88.758	85.56	114	-28.44	144	77
2479.7	AV	V	33.74	30.542	88.258	85.06	94	-8.94	144	77
2479.7	PK	H	33.74	30.542	88.858	85.66	114	-28.34	136	18
2479.7	AV	H	33.74	30.542	88.658	85.46	94	-8.54	136	18
6730	PK	V	33.795	39.166	46.859	52.23	74	-21.77	136	137
6730	AV	V	33.795	39.166	38.339	43.71	54	-10.29	136	137
10094	PK	V	36.03	43.684	47.596	55.25	74	-18.75	126	33
10094	AV	V	36.03	43.684	37.636	45.29	54	-8.71	126	33
10094	PK	H	36.03	43.684	50.106	57.76	74	-16.24	128	130
10094	AV	H	36.03	43.684	44.016	51.67	54	-2.33	128	130

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: 50dBuV
3GHz-14GHz: 54dBuV
14GHz-26.5GHz: 60dBuV

For AV:

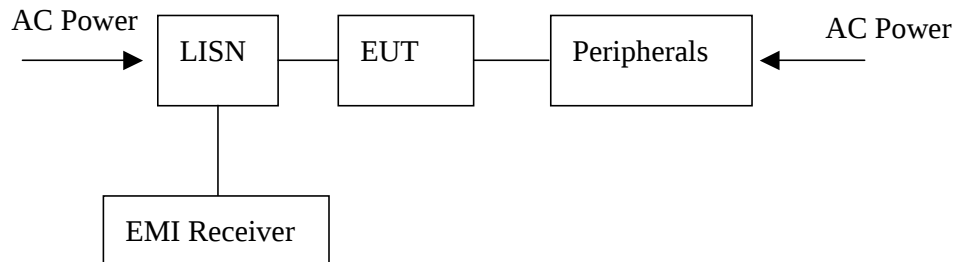
1GHz-3GHz: 41.5dBuV
3GHz-14GHz: 46dBuV
14GHz-26.5GHz: 46.5dBuV

4. Conducted emission test FCC 15.207

4.1 Operating environment

Temperature:	21	°C	(10-40°C)
Relative Humidity:	54	%	(10-90%)
Atmospheric Pressure	1010	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.

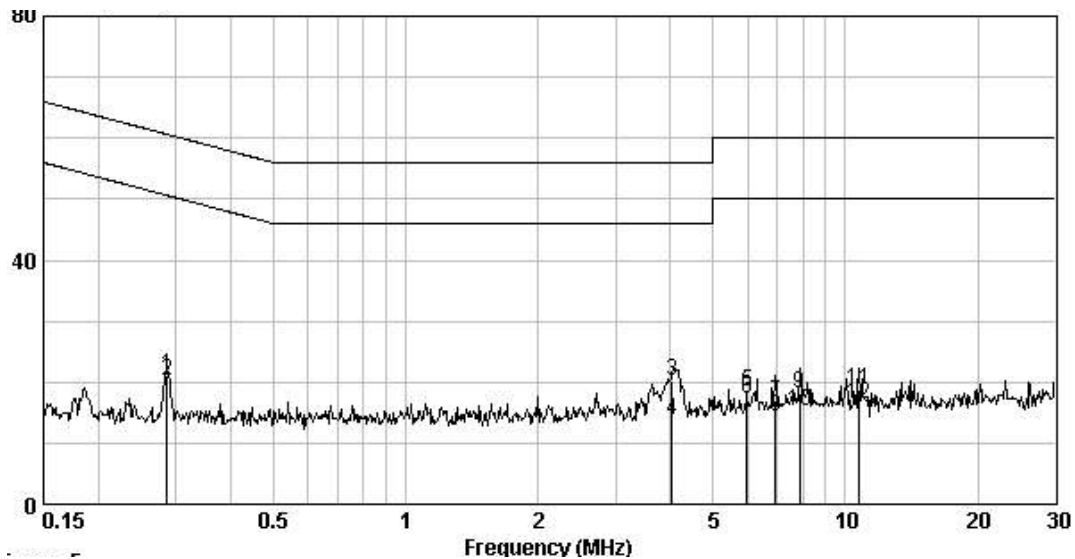
4.4 Conducted emission data FCC 15.207

(1) Line

EUT : 35807

Test Condition : Charging mode

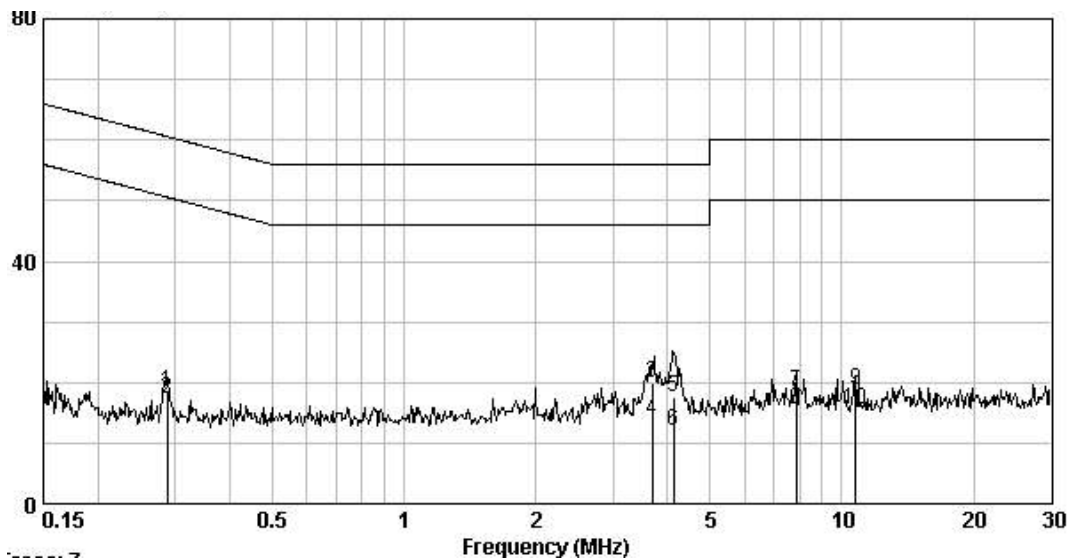
Freq. (MHz)	Correction Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.287	0.1	21.06	60.61	-39.55	QP
0.287	0.1	20.23	50.61	-30.38	AVERAGE
4.035	0.24	20.19	56	-35.81	QP
4.035	0.24	13.78	46	-32.22	AVERAGE
5.981	0.37	18.53	60	-41.47	QP
5.981	0.37	17.28	50	-32.72	AVERAGE
6.928	0.33	16.82	60	-43.18	QP
6.928	0.33	14.25	50	-35.75	AVERAGE
7.873	0.54	18.06	60	-41.94	QP
7.873	0.54	15.14	50	-34.86	AVERAGE
10.739	0.41	18.89	60	-41.11	QP
10.739	0.41	16.29	50	-33.71	AVERAGE



(2) Neutral

EUT : 35807
Test Condition : Charging mode

Freq. (MHz)	Correction Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.287	0.1	18.38	60.6	-42.22	QP
0.287	0.1	17.26	50.6	-33.34	AVERAGE
3.697	0.22	20.07	56	-35.93	QP
3.697	0.22	13.7	46	-32.3	AVERAGE
4.135	0.24	17.46	56	-38.54	QP
4.135	0.24	11.91	46	-34.09	AVERAGE
7.873	0.28	18.52	60	-41.48	QP
7.873	0.28	15.66	50	-34.34	AVERAGE
10.74	0.33	18.61	60	-41.39	QP
10.74	0.33	15.43	50	-34.57	AVERAGE



Remark:

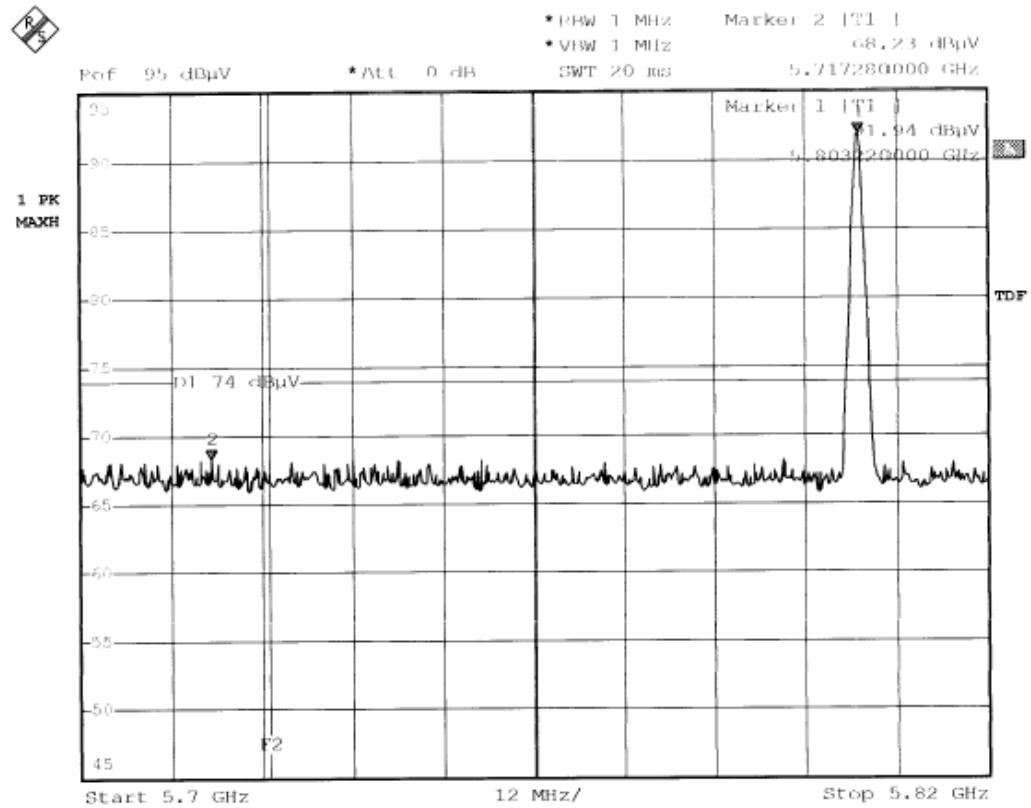
1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.
3. Please see the plot below.

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

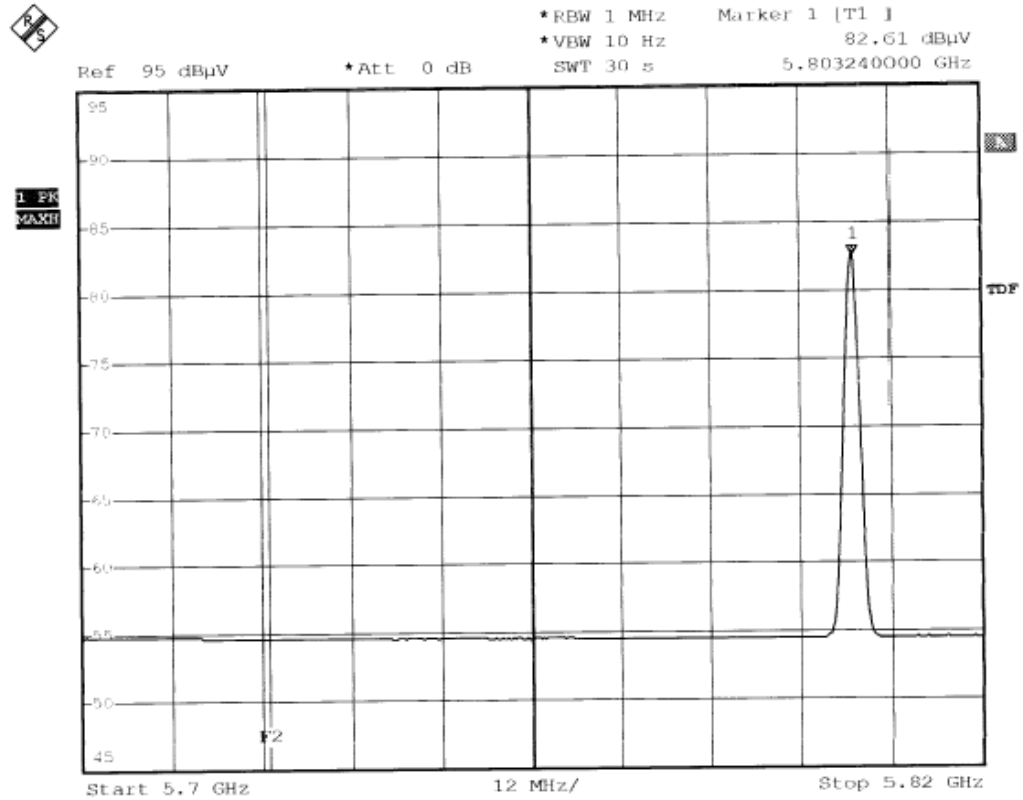
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 5803.019~ 5816.019MHz, Handset: 2468MHz ~ 2479.7MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

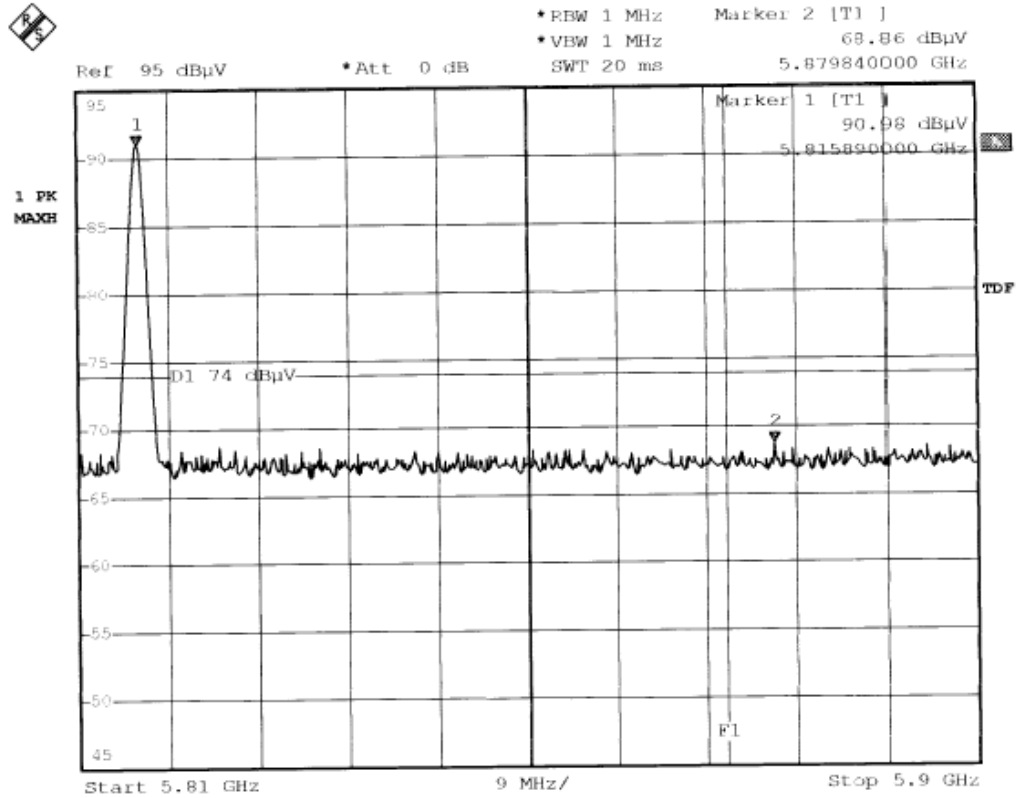
Test Condition : Base mode



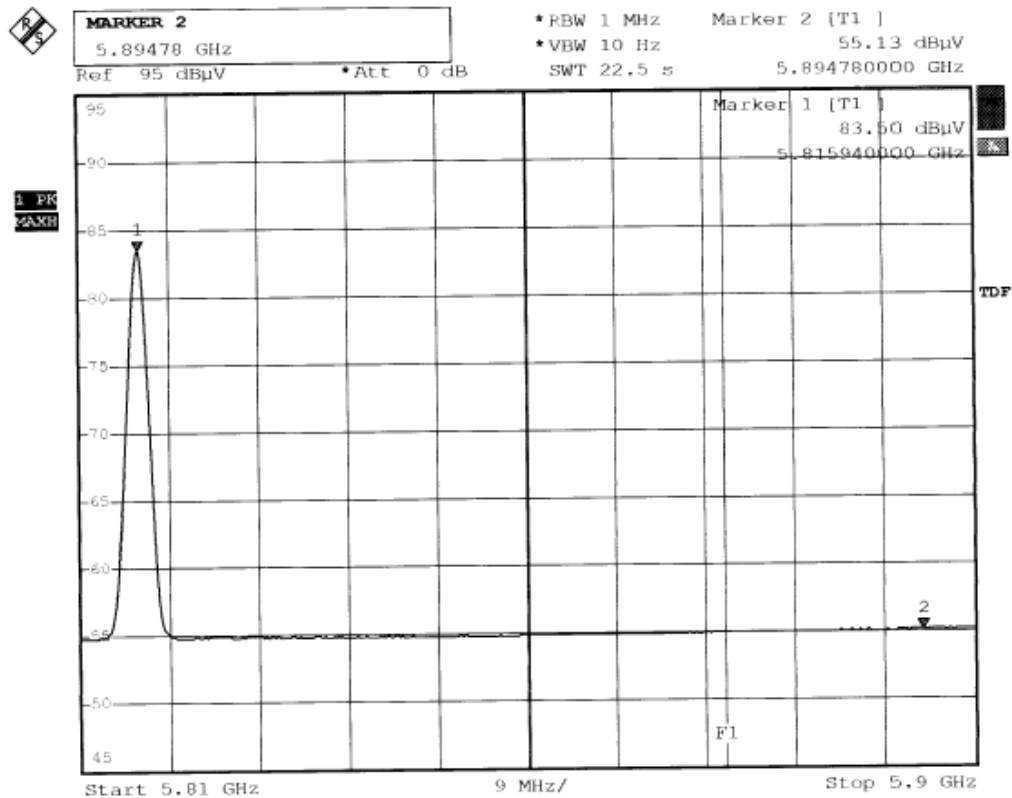
Jackey
Comment A: Band-edge at low channel
~~Horizontal~~ polarization F2=5725MHz (EC338/353) (PK) 35807 base
Date: 27.JAN.2004 10:36:10



Comment A: *Jockey* Band-edge at low channel
~~Horizontal~~ polarization F2=5725MHz (EC338/353) (AV) 35807 base
Date: 27.JAN.2004 10:43:03

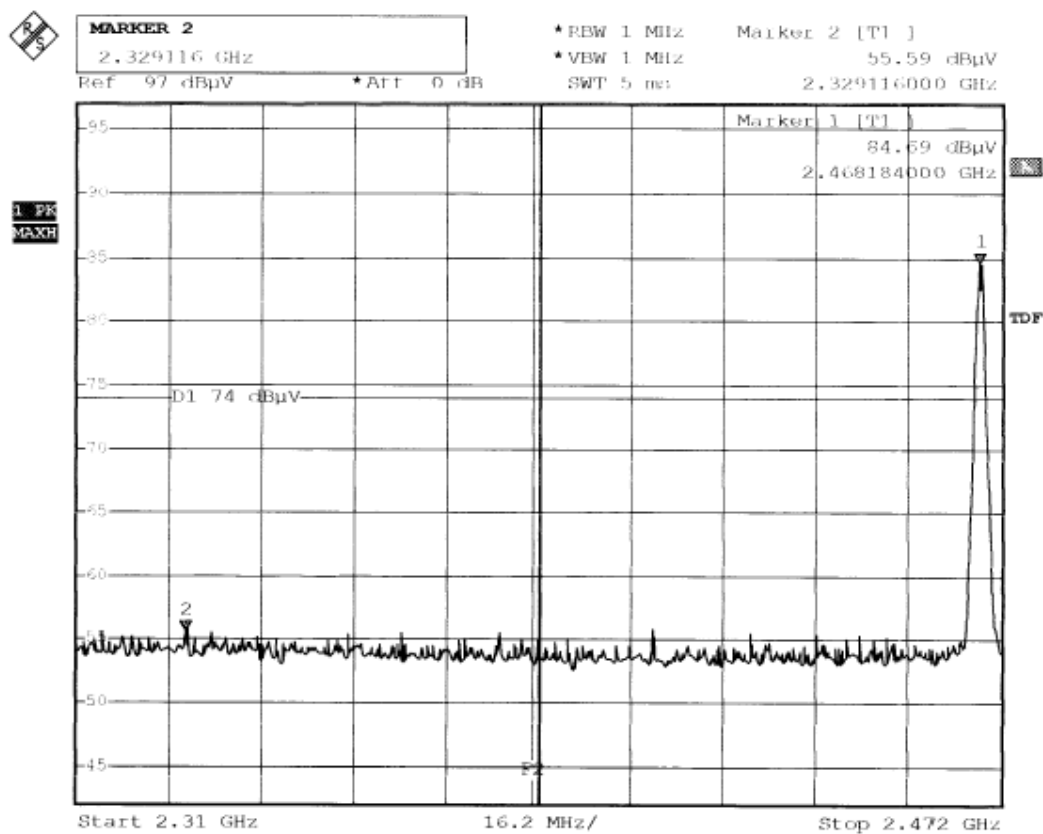


Comment A: Band-edge at high channel1
Horizontal polarization F1=5875MHz (EC338/353) (PK) 35807 bas
Date: 27.JAN.2004 10:29:44

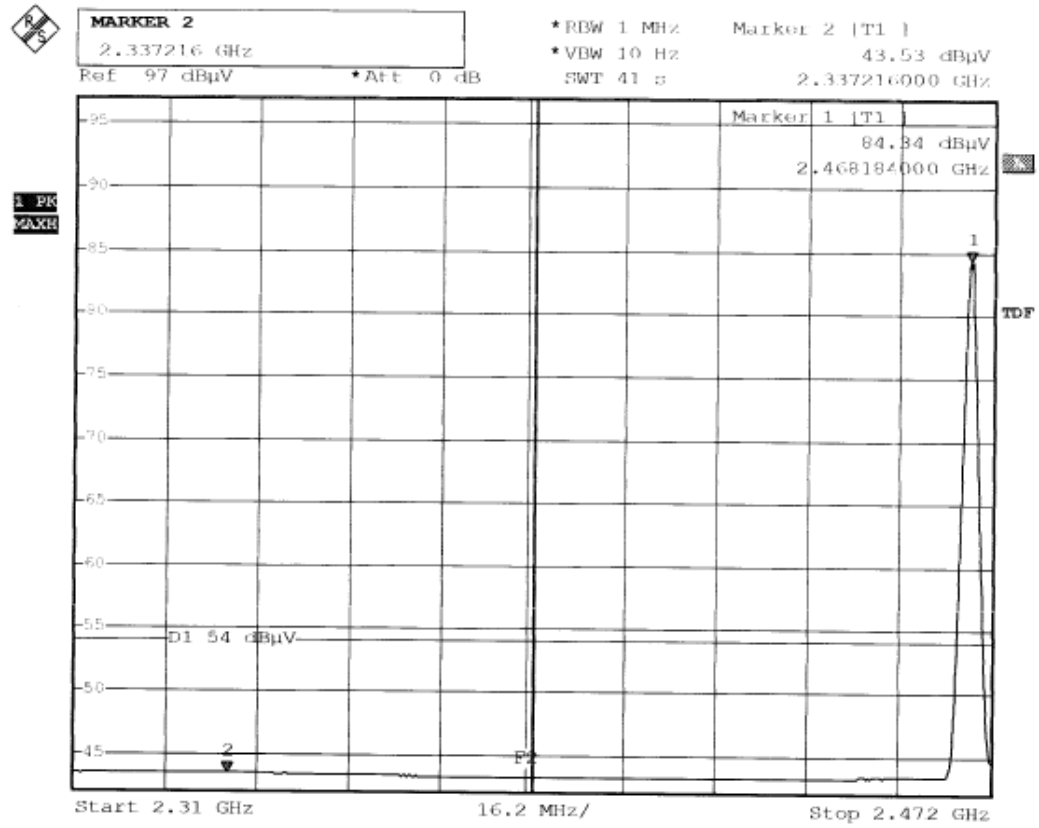


Comment A: Band-edge at high channelE
 Horizontal polarization F1=5875MHz (EC338/353) (AV)
 Date: 10.DEC.2003 13:22:27

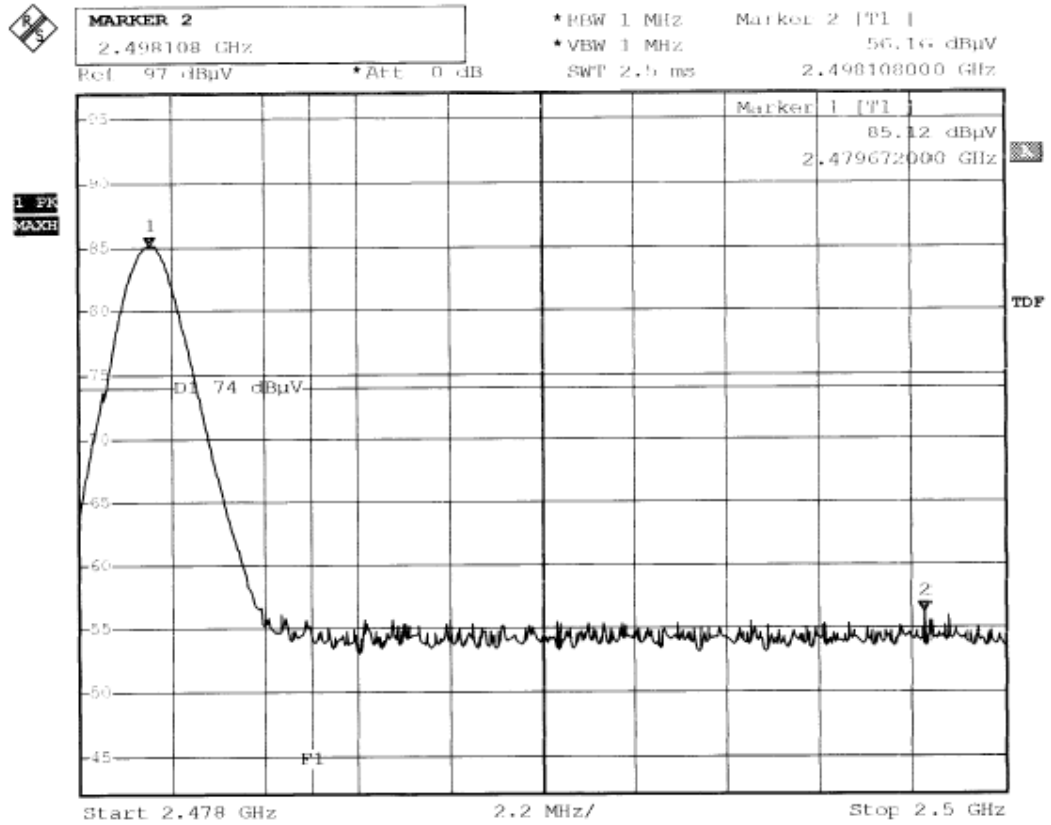
Test Condition : Handset mode



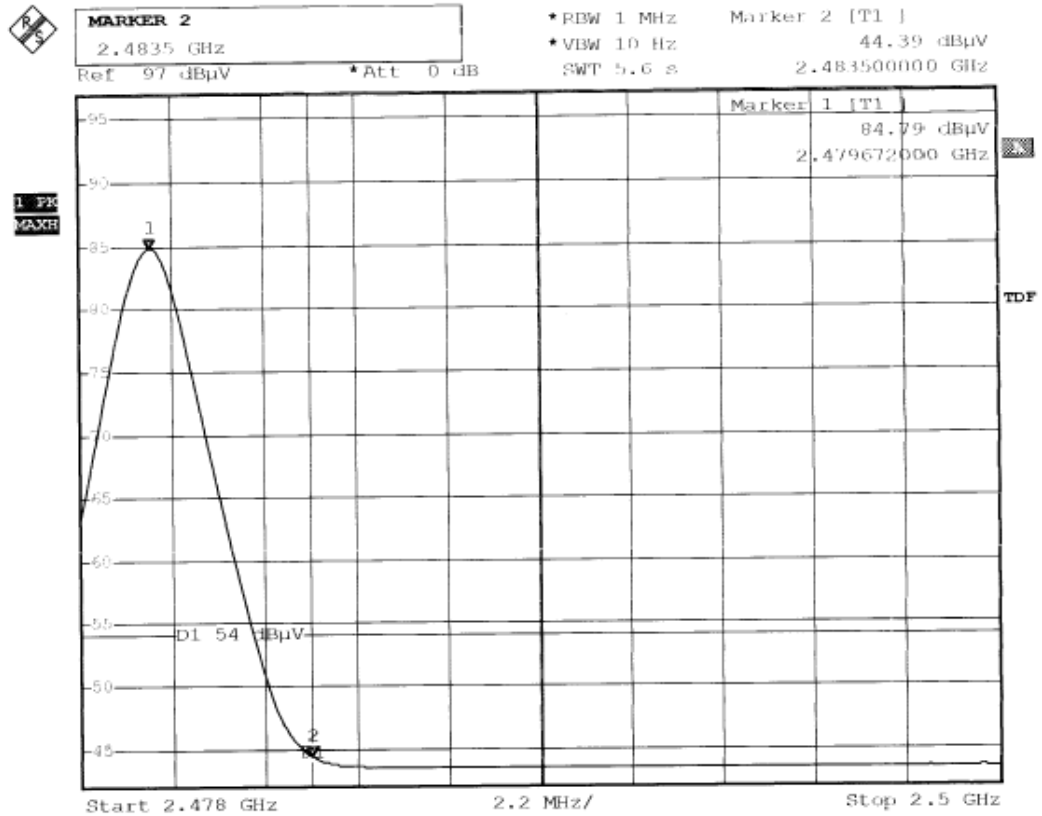
Comment A: Band-edge test at low channel EN B
Peak detector F2=2390MHz, 35807 Handset
Date: 5.NOV.2003 19:34:15



Comment A: Band-edge test at low channel E N B
Average detector F2-2390MHz, 35807 Handset
Date: 5.NOV.2003 19:36:13



Comment A: Band-edge test at high channel N B
Peak detector F1=2483.5MHz, 35807 Handset
Date: 5.NOV.2003 19:28:56



Comment A: Band-edge test at high channel N B
Average detector F1=2483.5MHz, 35807 Handset
Date: 5.NOV.2003 19:30:45