

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B REQUIREMENT

OF

Product Name: RM-687

Brand Name: Nokia

Model Name: RM-687

Report No.: EI/2010/30015

Issue Date: Mar. 25, 2010

FCC Rule Part: Part 15 B, Class B

Filing Type: Verification

Prepared for:
Nokia Inc.
12278 Scripps Summit Dr. San Diego
CA92131 USA

Prepared by:
SGS Taiwan Ltd.
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No. 134, Wu Kung Rd., Wuku Industrial
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VERIFICATION OF COMPLIANCE

Applicant: Nokia Inc.
12278 Scripps Summit Dr. San Diego CA92131 USA

Manufacturer: Compal Communications(Nanjing)Co.Ltd
Nanjing Jiangning Export Processing Zone (South Area) No.68-2
Suyuan Street

Product Name: RM-687

Brand Name: Nokia

Model Name: RM-687

Model Difference: N/A

File Number: EI/2010/30015

Date of test: Mar. 17, 2010 ~ Mar. 19, 2010

Date of EUT Receive: Mar. 17, 2010

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, Class B. The test results of this report relate only to the tested sample identified in this report.

Test By:  *Date:* Mar. 25, 2010

Nick Lin / Engineer

Prepared By:  *Date:* Mar. 25, 2010

Eva Kao / Asst. Supervisor

Approved By:  *Date:* Mar. 25, 2010

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Mar. 25, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

General:

Type Name:	RM-687		
Brand Name:	Nokia		
Model Name:	RM-687		
Model Difference:	N/A		
Simple Hands-Free (SHF):	Model: WH-102, Supplier: Hosiden Electronics (Shanghai)Co. Ltd.		
Power Supply:	3.7 Vdc re-Chargerable battery or 5Vdc by AC/DC power adapter or 12vdc by car Charger		
	Battery:	Model: BL-4C, Supplier: Samsung SDI Co., Ltd	
	Adaptor:	Model: AC-6U, Supplier: AstecC Agencies LTD. Taiwan Branch (HK)	
	Car Charger:	Model: DC-6, Supplier: AstecC Agencies LTD. Taiwan Branch (HK)	

CDMA:

Cellular Phone Standards	CDMA2000 Cellular	824.70 ~ 848.31MHz	24.36 dBm
Frequency Range and Power:	EVDO Cellular	824.70 ~ 848.31MHz	24.08 dBm
Type of Emission:	1M25F9W		
MEID:	A0000001B35EA7		
Software Version:	SK_2250B_TLC		
Hardware Version:	2000		

Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Transmit Power:	3.84 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	PIFA Antenna, -2.5dBi.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC Part15 Subpart B is authorized under a Verification procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Nokia Cellular CDMA Phone FCC ID: FCC ID: QMNRM-687 Was Tested With AC Adapter (AC-6U), DC car Charger (DC-6) and Headsets (WH-102). The EUT was stayed in normal operation mode (RC3/SO55) with CMU200. For more information please see section 5.4 and section 6.5 for test data and APPENDIX 1 for set-up photographs.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4:2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4:2003.

2.4 Limitation

(1) Conducted Emission

According to section 15.107(a) Conducted Emission Class B Limits is as following.

Frequency range MHz	Class B Limits	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
- 3.The measurement uncertainty is ± 2.586 dB.

(2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength μV/m	Distance (m)	Field strength at 3m dB μ V/m
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark:

1. Emission level in dB μ V/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.
- 3.The measurement uncertainty is ± 4.22 dB.

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (AC adapter)

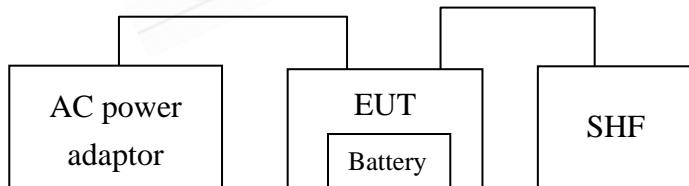


Fig. 2-2 Configuration of Tested System (DC Car Charger)

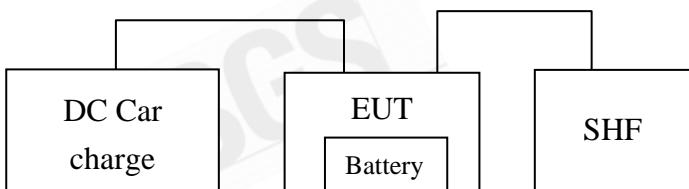


Fig. 2-3 Configuration of Tested System (Remote Site)

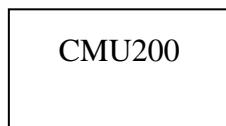


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	EUT	Nokia	RM-687	N/A	N/A	N/A
2.	AC Adaptor	Nokia	AC-6U	N/A	N/A	175cm, Un-shielded
3.	Car Charger	Nokia	DC-6	N/A	N/A	190cm, Un-shielded
4.	Battery	Nokia	BL-4C	N/A	N/A	N/A
5.	SHF	Nokia	WH-102	N/A	150cm Un-shielded	N/A

Table 2-2 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	R&S	CMU200	102189	Un-shielded	Un-shielded

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

4. Description of test modes

Set EUT power control “all up bits” for all test mode through base station.
The EUT was stayed in normal operation mode (RC3/SO55) with CMU200.

Test Plan

Conducted Emission

1. AC Charger with SHF

Radiated Emission

1. AC Charger with SHF
2. DC Charger with SHF

Note:

SHF is WH-102

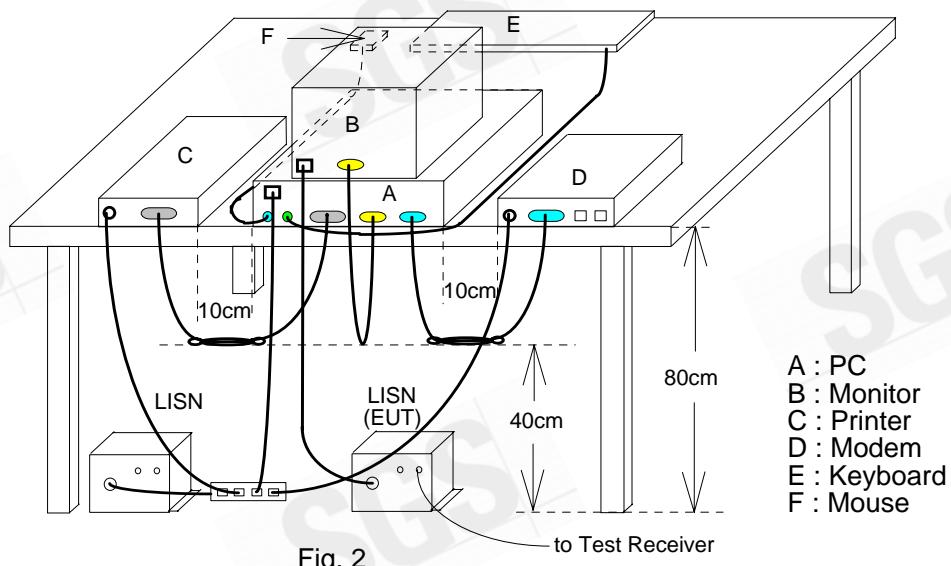
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5. Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



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5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2009	09/14/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

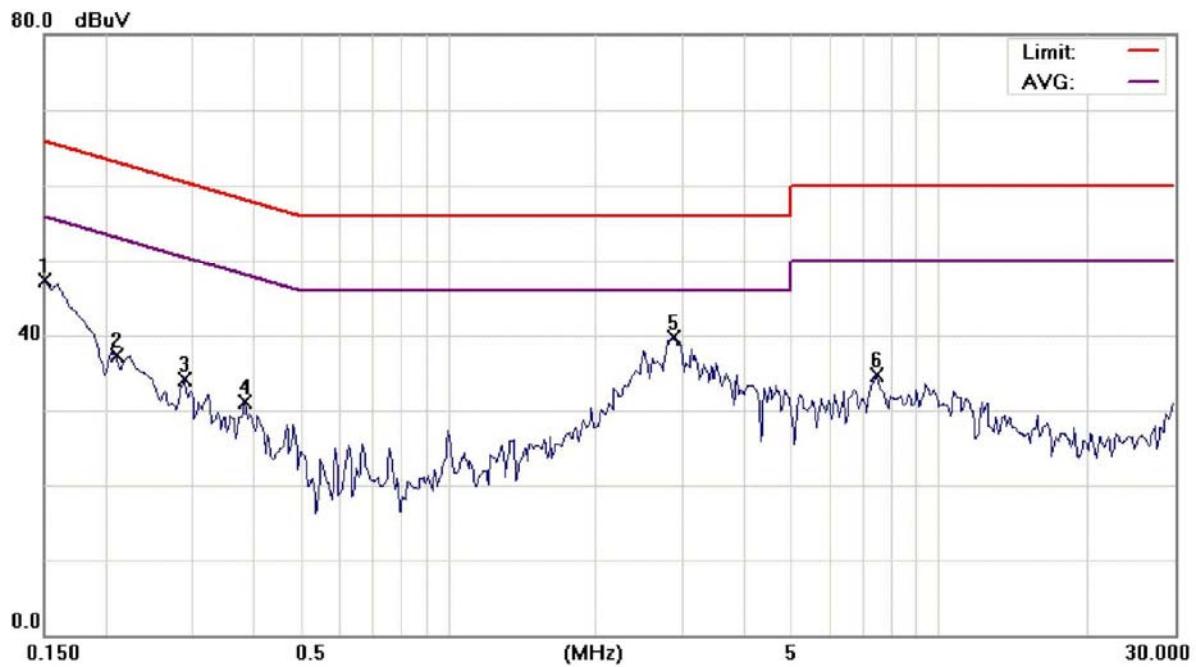
5.4 Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

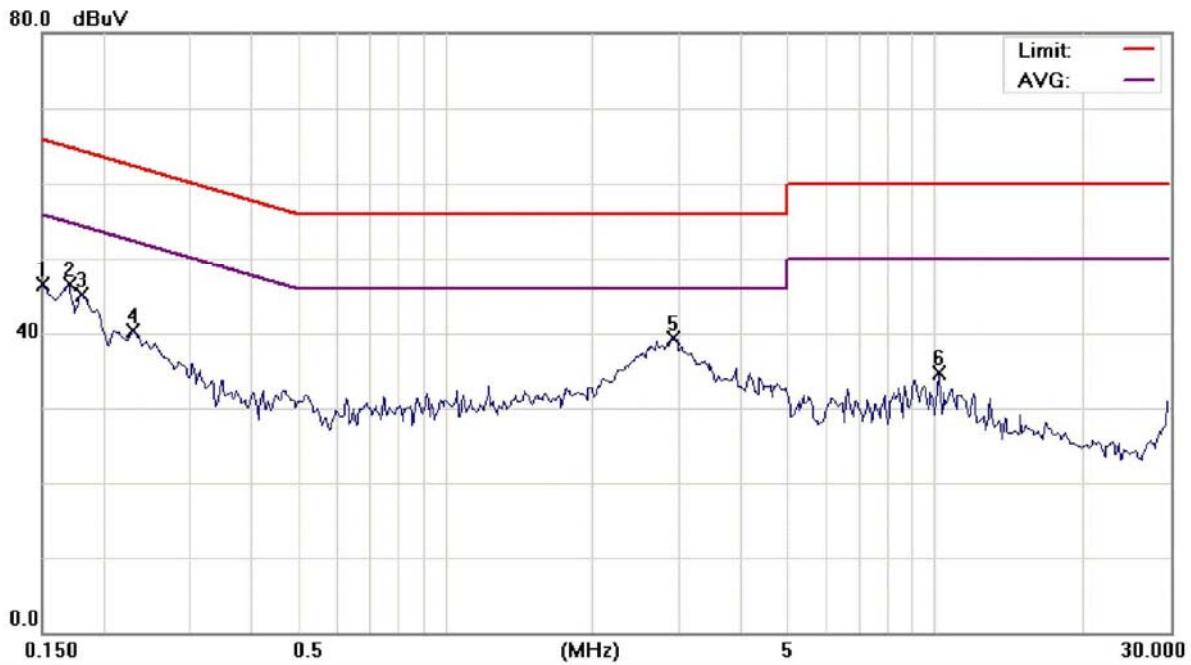
Operation Mode:	Chargerr mode + Play music with SHF	Test Date:	Mar. 19, 2010
		Test By:	Nick



Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP) Phase: **L1** Temperature: 24 °C
 EUT: RM-687 Power: AC 120V/60Hz Humidity: 61 %
 M/N: RM-687 Distance: Air Pressure: hpa
 Note: Charger mode + Play music with SHF

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over	
							dB	Detector
1		0.1500	47.06	0.18	47.24	66.00	-18.76	peak
2		0.2100	37.19	0.12	37.31	63.21	-25.90	peak
3		0.2900	34.03	0.10	34.13	60.52	-26.39	peak
4		0.3850	31.03	0.08	31.11	58.17	-27.06	peak
5 *		2.8800	39.60	0.14	39.74	56.00	-16.26	peak
6		7.4800	34.44	0.27	34.71	60.00	-25.29	peak

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Site: SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61 %

EUT: RM-687

Distance:

Air Pressure: hpa

M/N: RM-687

Note: Charger mode + Play music with SHF

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over	
							dB	Detector
MHz			dBuV	dB		dBuV	dB	
1	0.1500	46.31	0.20	46.51	66.00	-19.49	peak	
2	0.1700	46.32	0.17	46.49	64.96	-18.47	peak	
3	0.1800	44.97	0.16	45.13	64.49	-19.36	peak	
4	0.2300	40.22	0.14	40.36	62.45	-22.09	peak	
5 *	2.9100	39.08	0.16	39.24	56.00	-16.76	peak	
6	10.2200	34.16	0.45	34.61	60.00	-25.39	peak	

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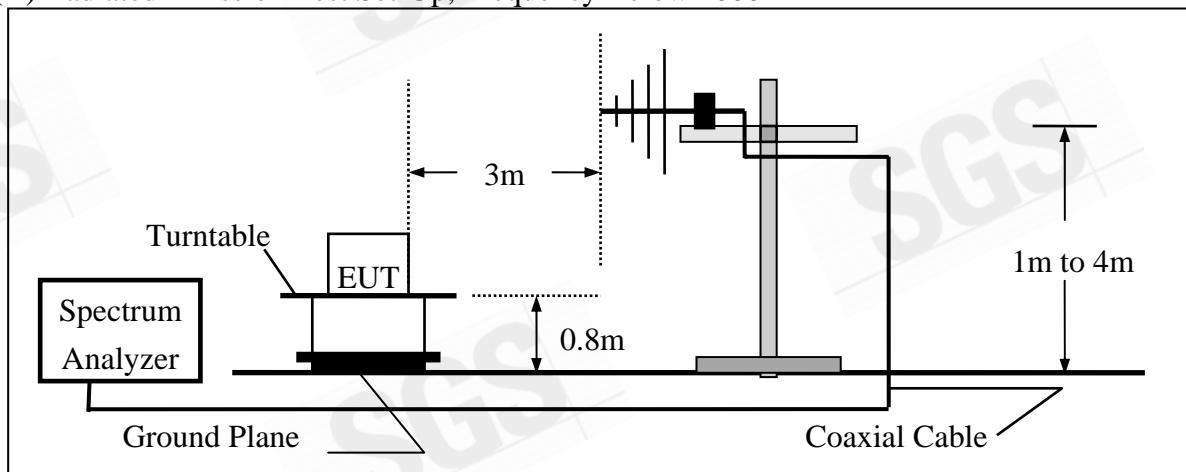
6. Radiated Emission Test

6.1 Measurement Procedure

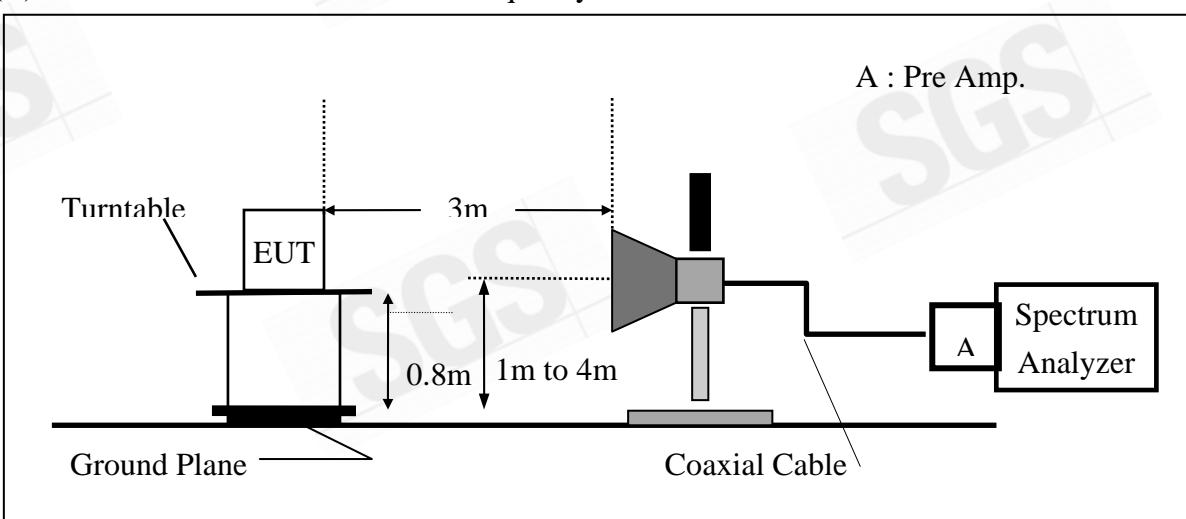
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	09/15/2009	09/14/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

6.4 Field Strength Calculation

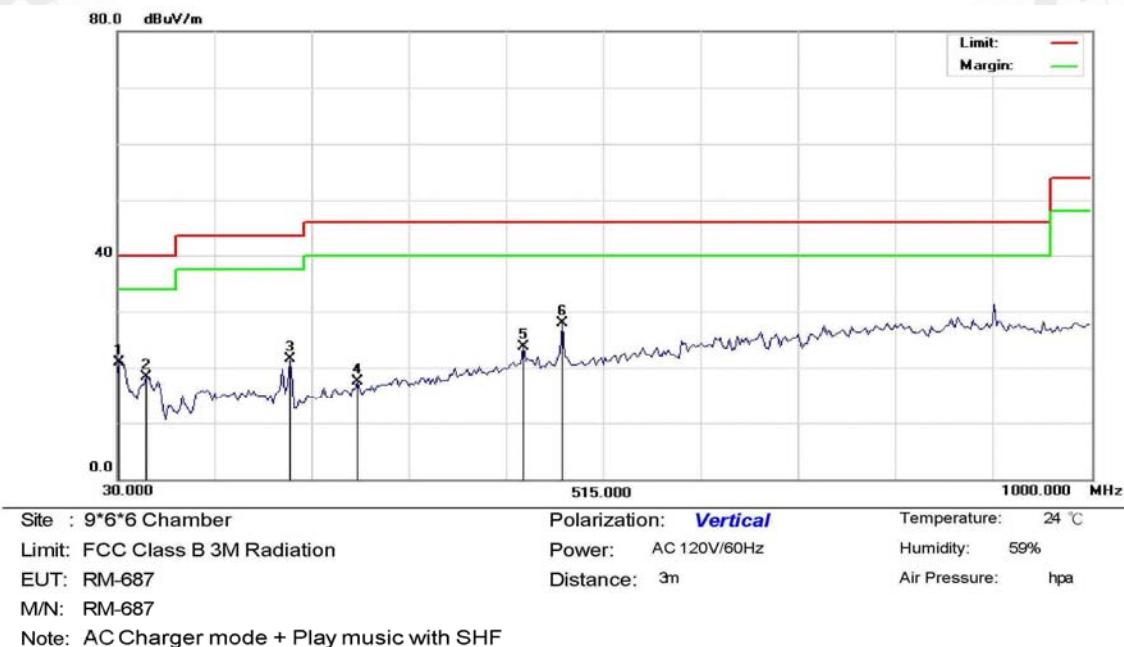
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

6.5 Measurement Result

Test Mode: AC Charge mode + Play music with SHF Test Date : Mar. 18, 2010
Frequency Range: 30MHz-1GHz Test By: Nick



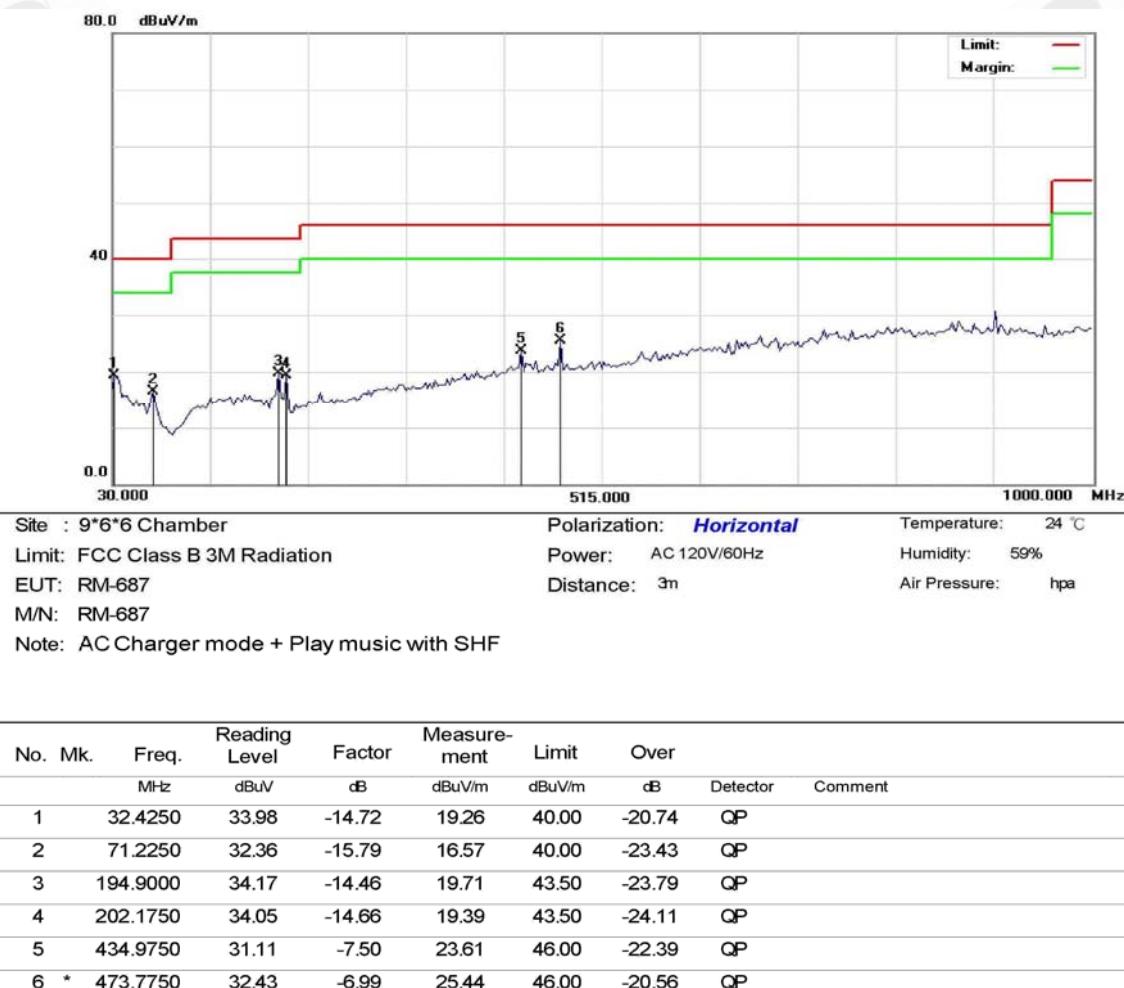
No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over							
							MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.4250	35.60	-14.72	20.88	40.00	-19.12	QP						
2		59.1000	32.51	-14.20	18.31	40.00	-21.69	QP						
3		202.1750	36.11	-14.66	21.45	43.50	-22.05	QP						
4		270.0750	29.72	-12.22	17.50	46.00	-28.50	QP						
5		434.9750	31.14	-7.50	23.64	46.00	-22.36	QP						
6	*	473.7750	34.93	-6.99	27.94	46.00	-18.06	QP						

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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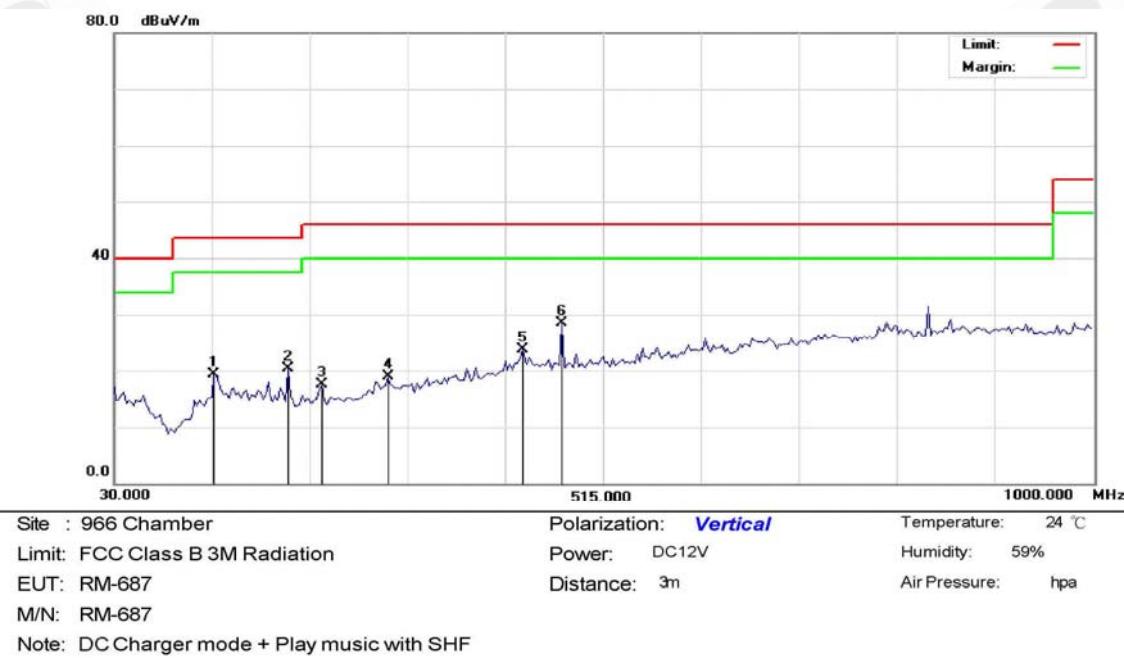
Test Mode: AC Charger mode + Play music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 30MHz-1GHz Test By: Nick



Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

Test Mode: DC Charger mode + Play music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 30MHz-1GHz Test By: Nick

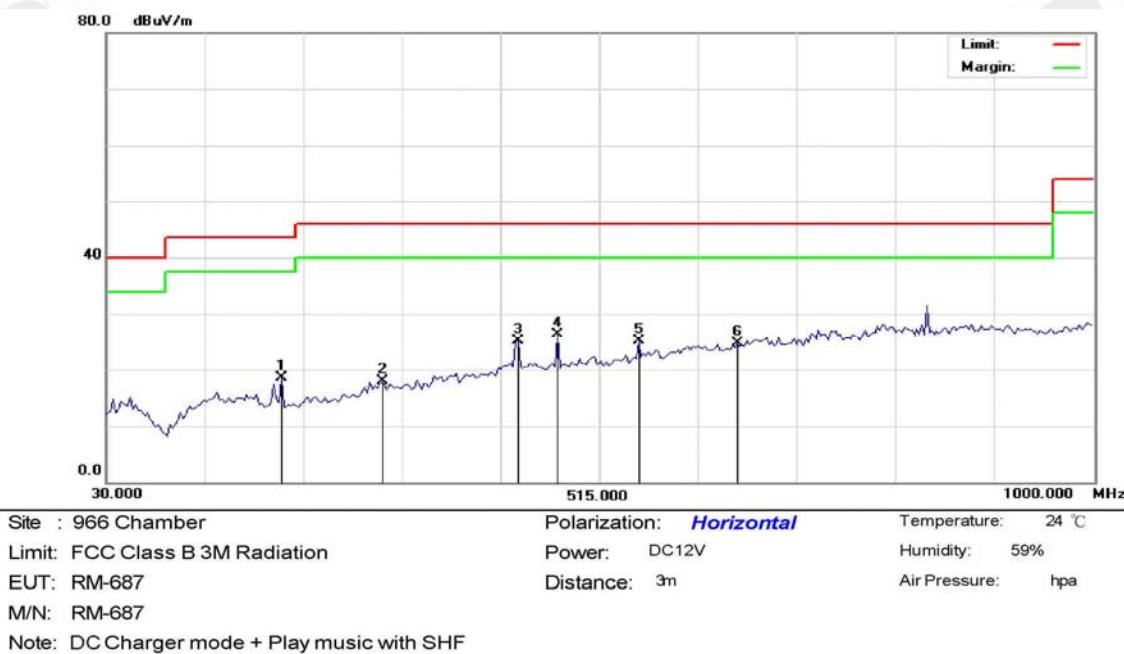


No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over	Detector	Comment
			Level						
MHz			dBuV	dB	dBuV/m	dBuV/m	dB		
1		129.4250	32.42	-13.03	19.39	43.50	-24.11	QP	
2		202.1750	35.03	-14.66	20.37	43.50	-23.13	QP	
3		236.1250	30.79	-13.21	17.58	46.00	-28.42	QP	
4		301.6000	30.12	-11.16	18.96	46.00	-27.04	QP	
5		434.9750	31.16	-7.50	23.66	46.00	-22.34	QP	
6	*	473.7750	35.43	-6.99	28.44	46.00	-17.56	QP	

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

Test Mode: DC Charger mode + Play music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 30MHz-1GHz Test By: Nick

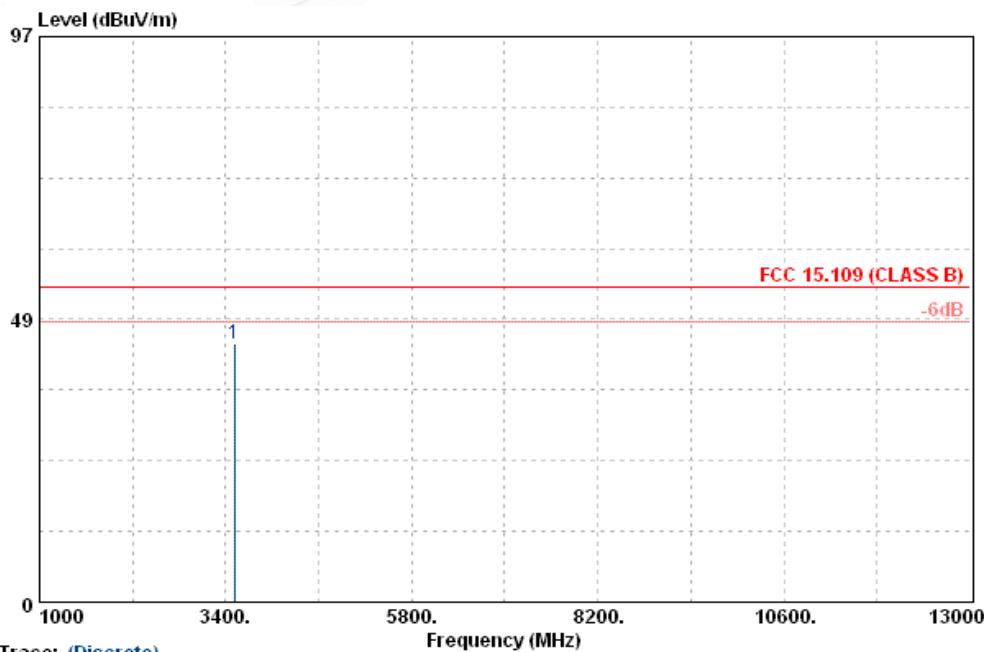


No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over	
							Detector	Comment
1		202.1750	33.10	-14.66	18.44	43.50	-25.06	QP
2		301.6000	29.12	-11.16	17.96	46.00	-28.04	QP
3		434.9750	32.61	-7.50	25.11	46.00	-20.89	QP
4 *		473.7750	33.27	-6.99	26.28	46.00	-19.72	QP
5		553.8000	30.90	-5.87	25.03	46.00	-20.97	QP
6		650.8000	27.86	-3.14	24.72	46.00	-21.28	QP

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

Test Mode: AC Charger Mode + Play Music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 1GHz-13GHz Test By: Nick



Trace: (Discrete)

Condition : BBHA9120D VERTICAL
 Project No. : EI-2010-30015
 Applicant : Compal
 EUT Description : RM-687
 EUT Model : RM-687
 Test Mode : AC Charger mode + Play music with SHF
 Temp./Humid. : 24/58
 Operator : Nick

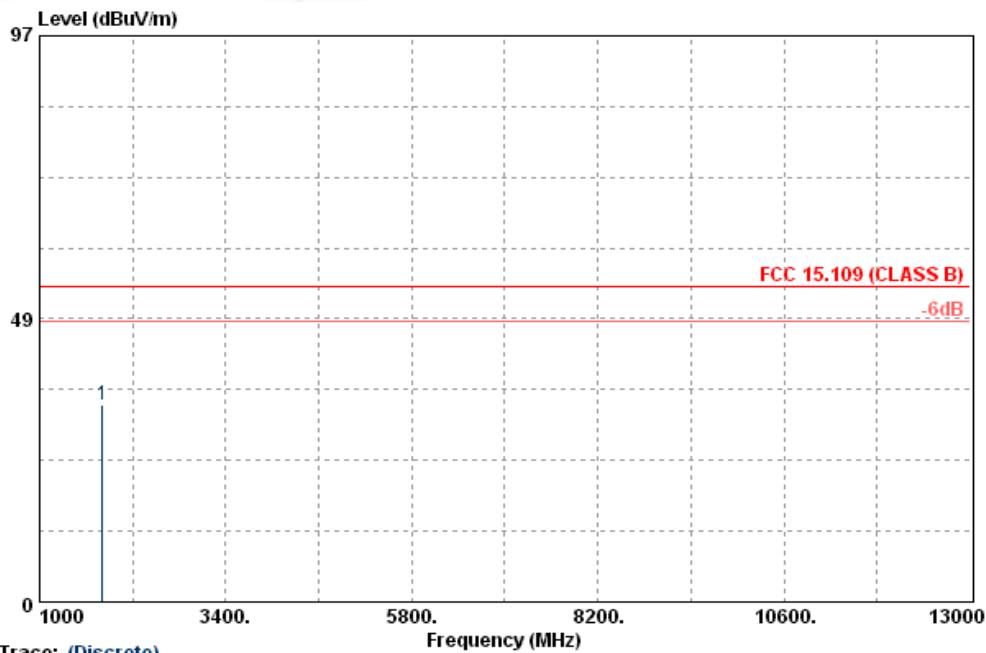
	Read	Antenna	Preamp	Cable	Line	Over	Over	Remark	
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 @	3515.50	42.23	28.54	33.03	6.61	2.12	44.35	53.98	-9.63 Peak

Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: AC Charger Mode + Play Music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 1GHz-13GHz Test By: Nick



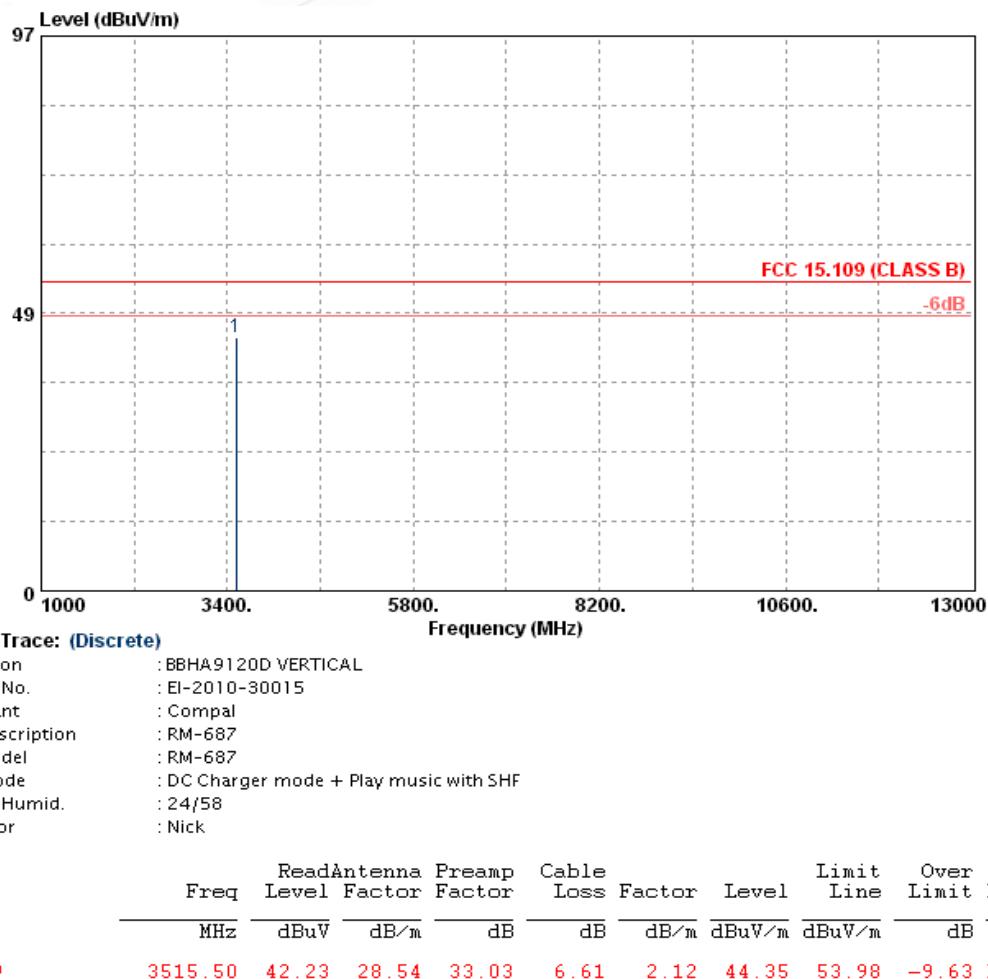
Condition : BBHA9120D HORIZONTAL
 Project No. : EI-2010-30015-16
 Applicant : Compal
 EUT Description : RM-687
 EUT Model : RM-687
 Test Mode : AC Charger mode + Play music with SHF
 Temp. /Humid. : 24/58
 Operator : Nick

	Read	Antenna	Preamplifier	Cable	Limit	Over	Over	Over	Remar
	Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 @	1806.00	38.18	25.49	34.36	4.44	-4.43	33.75	53.98	-20.23 Peak

Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

Test Mode: DC Charger Mode + Play Music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 1GHz-13GHz Test By: Nick

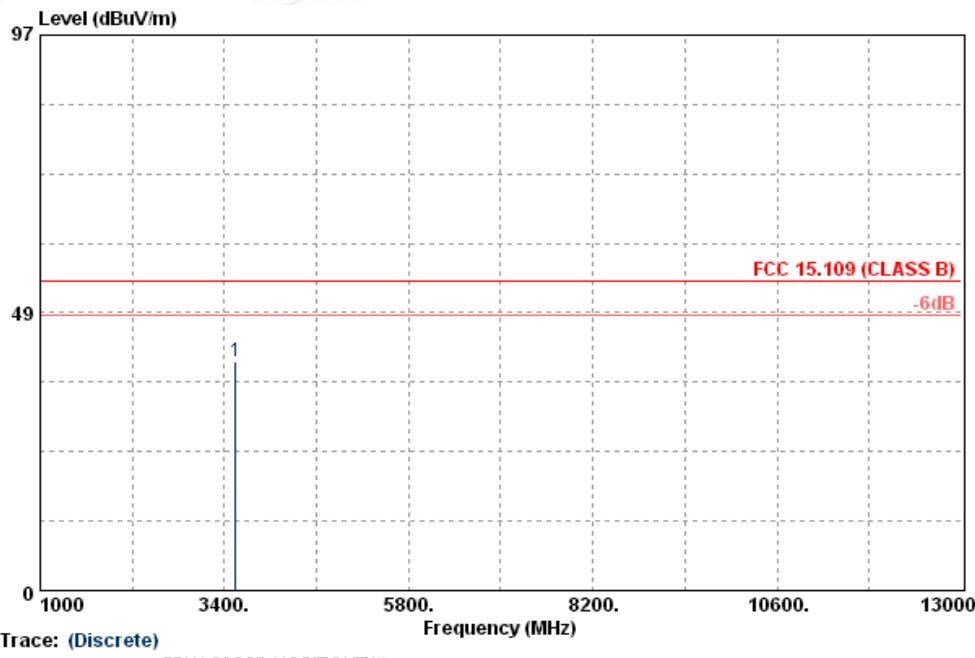


Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: DC Charger Mode + Play Music with SHF Test Date : Mar. 18, 2010
 Frequency Range: 1GHz-13GHz Test By: Nick



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
 Project No. : EI-2010-30015
 Applicant : Compal
 EUT Description : RM-687
 EUT Model : RM-687
 Test Mode : DC Charger mode + Play music with SHF
 Temp./Humid. : 24/58
 Operator : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dBuV/m	dB	
1 @	3548.00	37.88	28.62	33.04	6.64	2.22	40.10	53.98	-13.88	Peak	

Remark :

- (1) Measuring frequencies from 1GHz to the 13GHz .
- (2) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (3) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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