



Test Report

Product Name: Wireless Speaker System Base

Model No.: HJ580SA, IPB-125

Brand Name: Hamilton Beach, Starlite

FCC ID: BGR580SA

Applicant: Starlight Electronics Co.,Ltd

Address: 6/F.,Shing Dao Ind. Bldg,232 Aberdeen Main Road, Hong Kong

Date of Test: 2009-08-07 to 2009-08-10

Investigation Requested: FCC Part 15 Subpart C

Conclusions: The submitted product COMPLIED with the requirements of FCC Part 15: 2007, Subpart C.
The EMC tests were performed in accordance with the standards described above.

Prepared By:

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Reviewed By:

Yao Dao

Issued Date:

2009-08-10



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1.General Information

1.1. EUT Description

Model name:	Wireless Speaker System Base
Model number:	HJ580SA, IPB-125
Brand name:	Hamilton Beach, Starlite
FCC ID:	BGR580SA
Operation frequency:	2400MHz to 2480MHz
Test Channel:	CH1: 2407MHz, CH2: 2443MHz, CH3: 2479MHz
Power Supply:	120V AC



Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

1.2. Applicant Details

Applicant:	Starlight Electronics Co.,Ltd.
Address:	6/F.,Shing Dao Ind. Bldg,232 Aberdeen Main Road, Hong Kong

1.3. Test Facility

3m Anechoic Chamber: FCC

Registration Number: 597719

January 18, 2005

EMC Lab.

Certificated by Nemko, Shanghai

Aut. No.: ELA505

May 30, 2007

Industry Canada

Registration Number: 6664A

August 22, 2006

Certificated by China National Accreditation Service for Conformity
Assessment [CNAS]

CNAS Number: L0307

Name of Firm:

Guangdong Electronic & Electrical Products Inspection and Supervision
Institute. [CGEL]

Site Location:

45 South Street Shayongnan village Sanyuanli Guangzhou China.

Telephone: 86-20-36377897

Fax: 86-20-36377049



2. Test Information and Result Summary

2.1. Test Statement

The test results in the report apply only to the unit tested by CGEL.

There was no deviation from the requirements of test standards during the test.

2.2. EUT Modification

No modification.

2.3. Investigations Requested

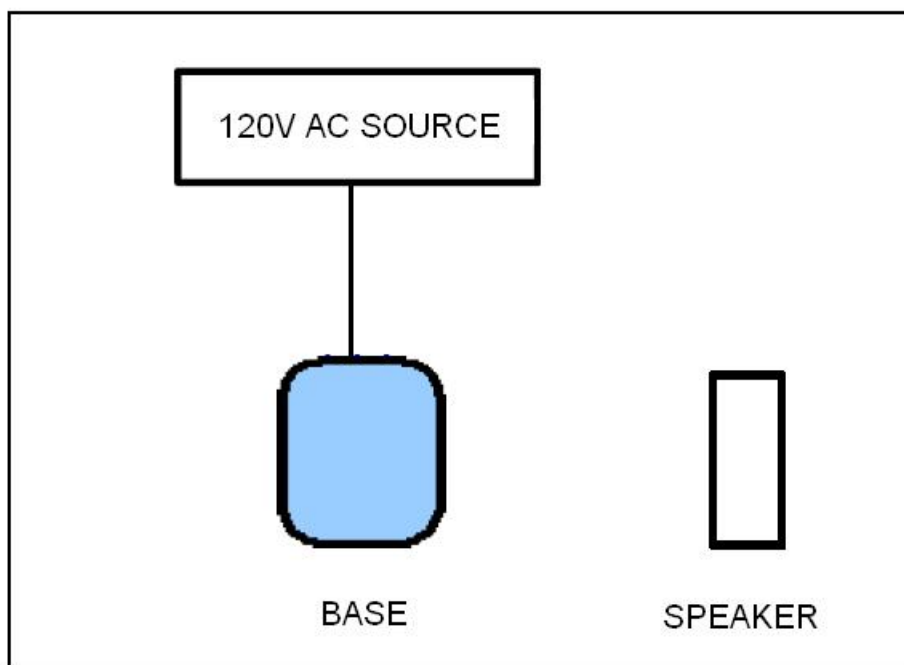
Perform Electromagnetic interference measurement in accordance with FCC Part 15: 2006, Subpart C and ANSI C63.4:2003 for FCC Certification.

2.4. Test Standard and Results Summary

Test standard and result summary			
Test description	Test Requirement	Limited	Test Result
Conducted Emission	FCC 47CFR 15.207	Table 15.207	PASS
Radiated Emission	FCC 47CFR 15.249(c)	Table 15.209	PASS
Band Edge Measurement	FCC 47CFR 15.249(d)	50 dB below the level of the fundamental or to the general radiated emission limits in section 15.209	PASS

Remark: N/A- not applicable

2.5. Configuration of System Under Test



2.6. Measurement Uncertainty

Item	Item	Uncertainty	Remark
1	Uncertainty for Conducted Emission Test	2.5dB	/
2	Uncertainty for Radiated Emission Test	3.7dB	Under 1GHz
3	Uncertainty for Radiated Emission Test	3.5dB	1GHz-7GHz
4	Uncertainty for Radiated Emission Test	3.9dB	Above 7GHz



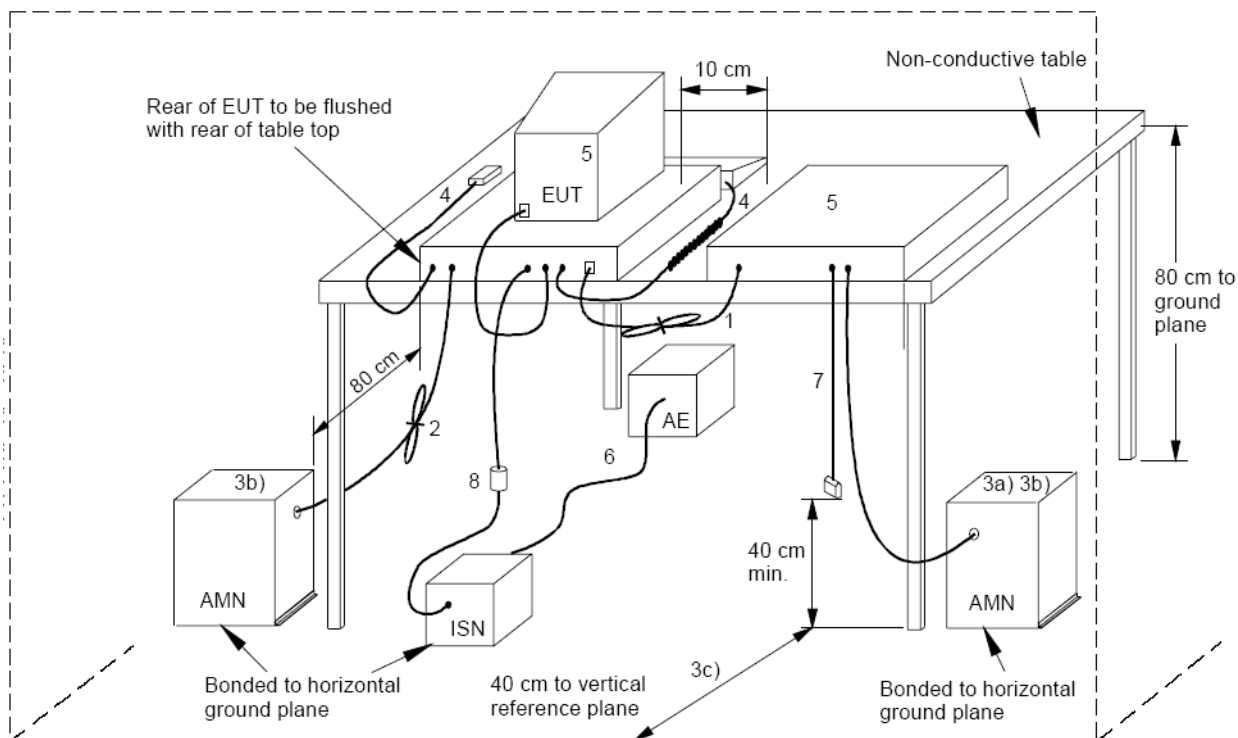
3. Conduct Emission

Test requirement:	FCC 47CFR 15.207
Test method:	ANSI C63.4:2003
Test date:	2009-08-07
Environment condition:	Temperature:21 to 22 °C, Humidity: 55 to 56 %RH, Pressure: 101.0kPa
Test result:	Pass

3.1. Test equipment and test site

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	EMI Receiver	R&S	ESIB7	2009/04/08	2010/04/07
2	LISN	R&S	ESH3-Z5	2009/04/08	2010/04/07
3	PULSE LIMITER	R&S	ESH3-Z2	2009/04/08	2010/04/07
4	Signal Generator	Anritsn	MG3602A	2009/10/05	2010/10/04
5	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22

3.2. Test setup



NOTE: The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).



3.3. Test Procedure

The EUT was tested according to the requirement of ANSI C63.4:2003 and FCC Part 15 Subpart B Class B. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50μH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

3.4. Limits

Limits for conducted emission–FCC 47 CFR15.207

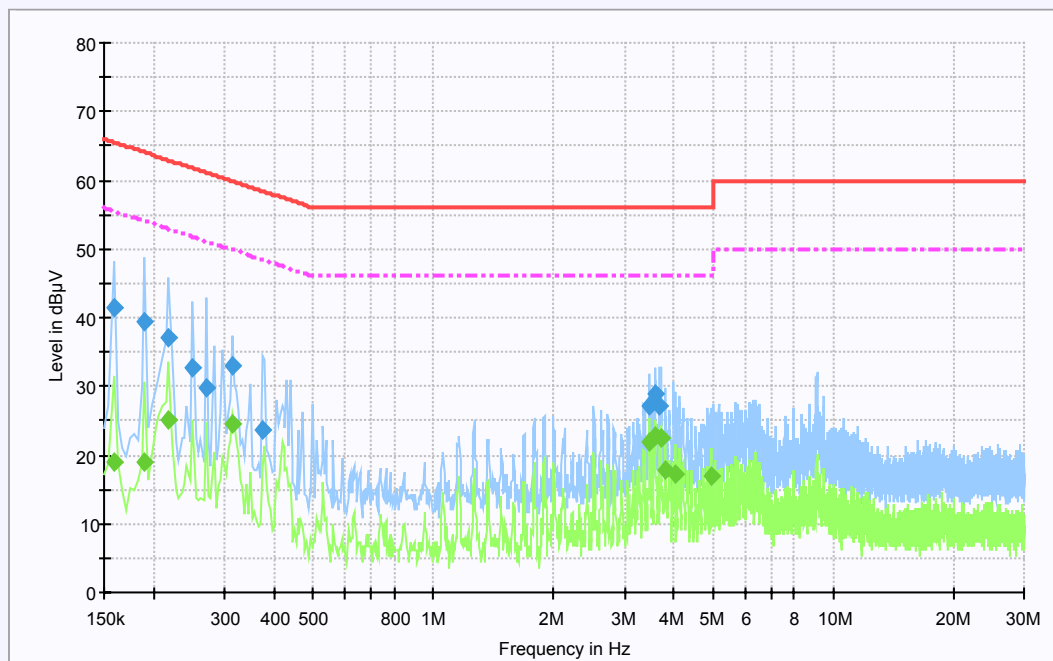
Frequency MHz	Limit(dB μ V)	
	QP	AV
0.15 - 0.50	66~56*	56~46*
0.50-5.0	56	46
5.0 – 30	60	50
*: Decreasing linearly with the logarithm of the frequency.		

Remarks: In the above table, the tighter limit applies at the band edges.

3.5. Test result

Results data and curve of disturbance voltage at the mains terminals:

QuasiPeak(dB μ V)					Average(dB μ V)				
Frequency (MHz)	Test value	margin	limit	line	Frequency (MHz)	Test value	margin	limit	line
0.158	41.5	24.1	65.6	L1	0.158	19.0	36.6	55.6	L1
0.190	39.5	24.5	64.0	N	0.190	18.9	35.1	54.0	L1
0.218	37.1	25.8	62.9	L1	0.218	25.1	27.8	52.9	L1
0.250	32.8	29.0	61.8	L1	0.314	24.5	25.4	49.9	L1
0.270	29.8	31.3	61.1	L1	3.474	21.8	24.2	46.0	N
0.314	32.9	27.0	59.9	N	3.590	22.8	23.2	46.0	N
0.374	23.5	34.9	58.4	L1	3.694	22.3	23.7	46.0	L1
3.474	27.1	28.9	56.0	L1	3.798	18.0	28.0	46.0	L1
3.590	28.8	27.2	56.0	N	4.010	17.3	28.7	46.0	L1
3.690	27.2	28.8	56.0	N	4.934	16.8	29.2	46.0	N



NOTE:

1. Measurement uncertainty is 2.5dB
2. Emission level = Reading value + Cable loss + Insertion loss of LISN
3. Margin value = Emission level - Limit
4. The emission of other frequencies were very low against the limit.



4. Radiated Emissions

Test requirement:	FCC 47CFR 15.249
Test method:	ANSI C63.4:2003
Test date:	2009-08-10
Environment condition:	Temperature:21 to 22 °C, Humidity: 55 to 56 %RH, Pressure: 101.0kPa
Conclusion::	Pass

4.1. Test equipment and test site

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	EMI Receiver	R&S	ESIB7	2009/03/28	2010/03/27
2	Antenna	R&S	HL-562	2008/08/14	2009/08/13
3	RF Cable	R&S	/	2008/08/14	2009/08/13
4	RF Cable	R&S	/	2008/08/14	2009/08/13
5	RF Cable	R&S	/	2008/08/14	2009/08/13
6	3m anechoic chamber	ETS	RFD-F-100	2009/05/23	2010/05/22
7	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22

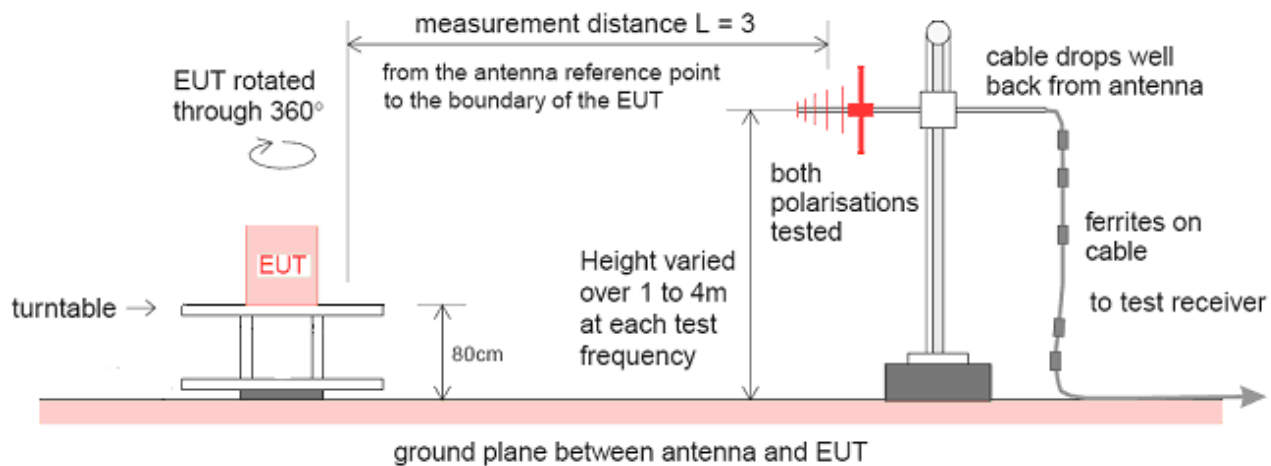
Frequency rang: 1GHz~7GHz

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	EMI Receiver	R&S	ESIB7	2009/03/28	2010/03/27
2	Antenna	Xibao	GH18H	2009/05/23	2010/05/22
3	HF Cable	Xibao	/	2009/05/23	2010/05/22
4	3m anechoic chamber	ETS	RFD-F-100	2009/05/23	2010/05/22
5	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22

Frequency rang: above 7GHz

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	Analyzer	HP	8562A	2009/07/01	2010/06/30
2	Antenna	Xibao	GH18H	2009/05/23	2010/05/22
3	HF Cable	Xibao	/	2009/05/23	2010/05/22
4	3m anechoic chamber	ETS	RFD-F-100	2009/05/23	2010/05/22
5	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22

4.2. Test setup



Note: The EUT system was put on a wooden table with 0.8m heights above a ground plane.



4.3. Test Procedure

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations.

The frequency range from 30MHz to 10th harmonic are checked.

The test mode (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.4.



4.4. Limits and Test Result

The field strength of emissions from intentional radiators:

Fundamental frequency	Field strength of fundamental		Field strength of harmonics	
MHz	mV/m	dB μ V/m	μ V/m	dB μ V/m
2400-2483.5	50	94	500	54

Limits for Radiated Emissions –15.209

Frequency Range	Limits		Measurement Distance
MHz	μ V/m	dB μ V/m	m
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
960-1000	500	54.0	3
Above1000	54dB μ V/m (Average) 74dB μ V/m (Peak)		3

Remark:

- (1) In the emission table above, the tighter limit applies at the band edges.
- (2) The emission limits shown in the above table are based on measurement employing a CISPR quasi –peak detector and above 1000MHz are based on measurements employing an average detector.
- (3) According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.
- (4) Measurement Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



Test Result

The frequency range from 30MHz to 1000MHz and above 1GHz is investigated. Please see the following pages.

Radiated emissions within the restricted bands were performed Quasi-Peak measurement below 1GHz, Peak measurement and Average measurement above 1GHz.

Quasi-Peak measurement below 1GHz were performed using a Quasi-Peak detector with RBW/VBW setting as 120kHz/ 300kHz.

Average measurement from 1GHz to 7GHz were performed using a peak detector with RBW 3MHz/VBW 10Hz.

Average measurement above 7GHz were performed using a peak detector with RBW 1MHz/VBW 10Hz.

Peak measurement from 1GHz to 7GHz were performed using a peak detector with RBW/VBW setting as 3MHz/ 3MHz.

Peak measurement above 7GHz were performed using a peak detector with RBW/VBW setting as 1MHz/ 1MHz.

All the emissions except fundamental from 7GHz~24GHz are at least 15dB below the limit, and do not record.



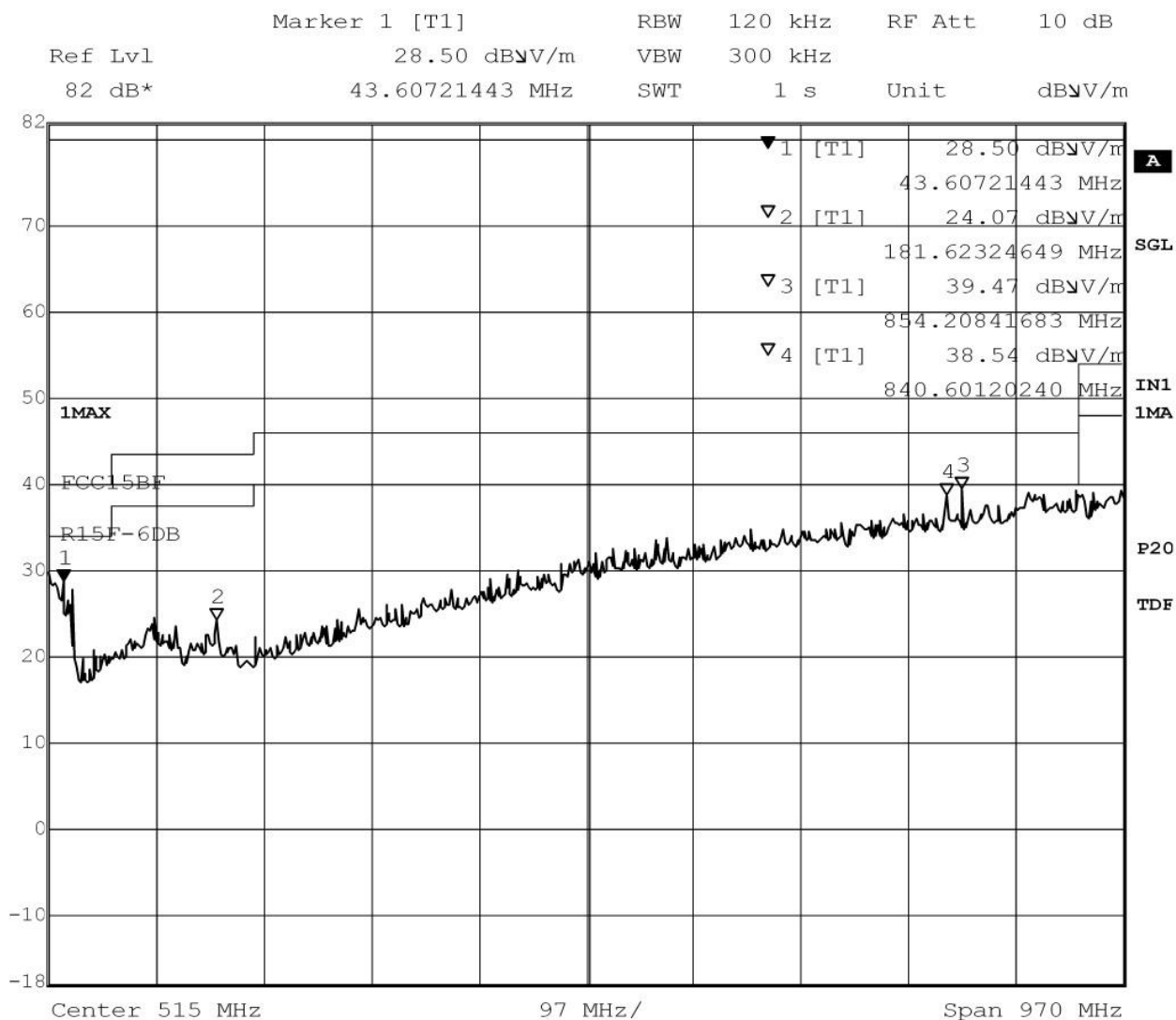
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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions:

Frequency Range: 30MHz-1000MHz (Vertical)



Date: 9.SEP.2008 14:30:31

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
43.61	28.50	40.00	QP	QP
181.62	24.07	43.50	QP	QP
840.60	38.54	46.00	QP	QP
854.21	39.47	46.00	QP	QP

Remark: Emission Level=Reading.



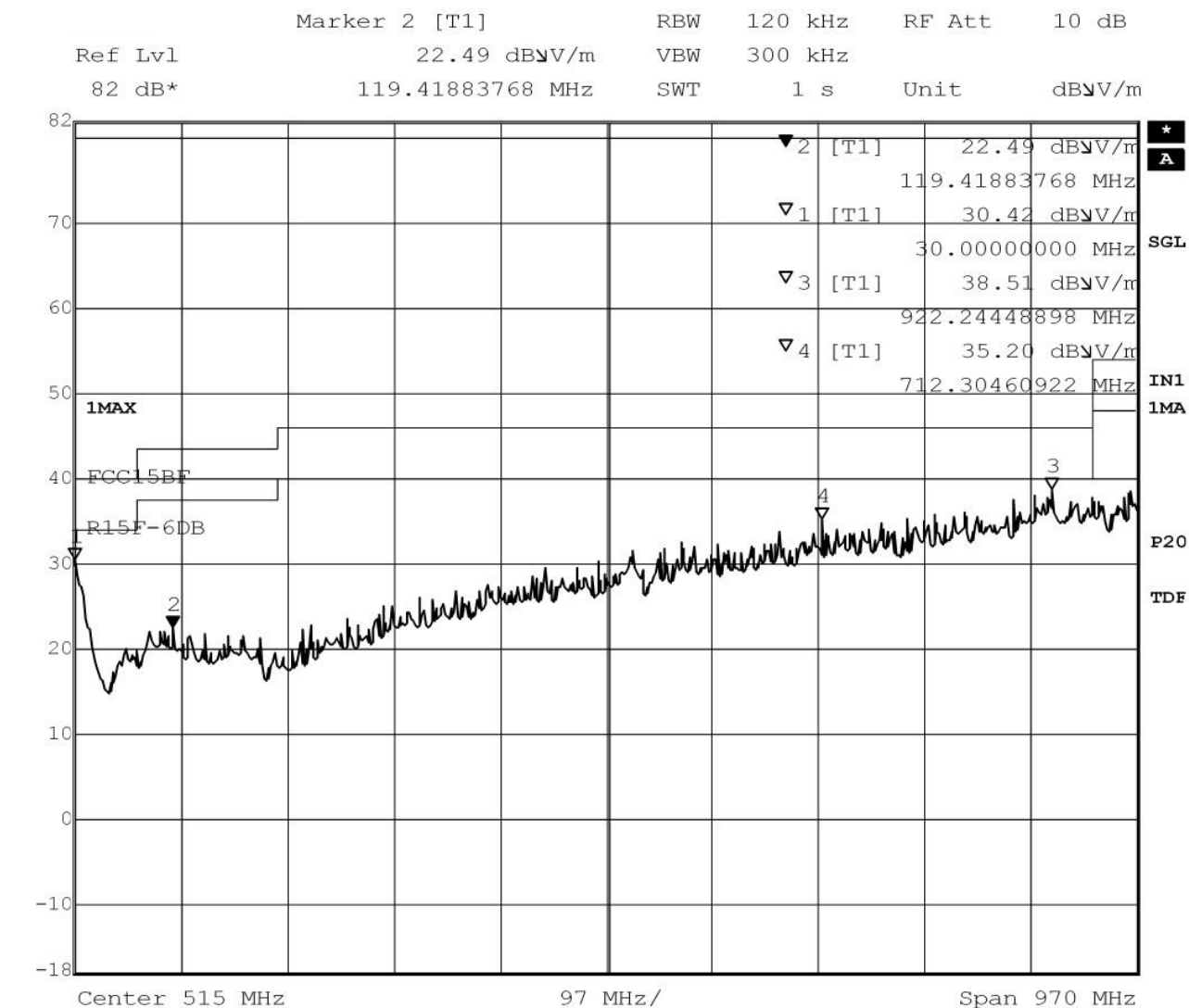
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions:

Frequency Range: 30MHz-1000MHz (Horizontal)



Date: 9.SEP.2008 14:28:09

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
30.00	30.42	40.00	QP	QP
119.42	22.49	43.50	QP	QP
712.30	35.20	46.00	QP	QP
922.24	38.51	46.00	QP	QP

Remark: Emission Level=Reading.



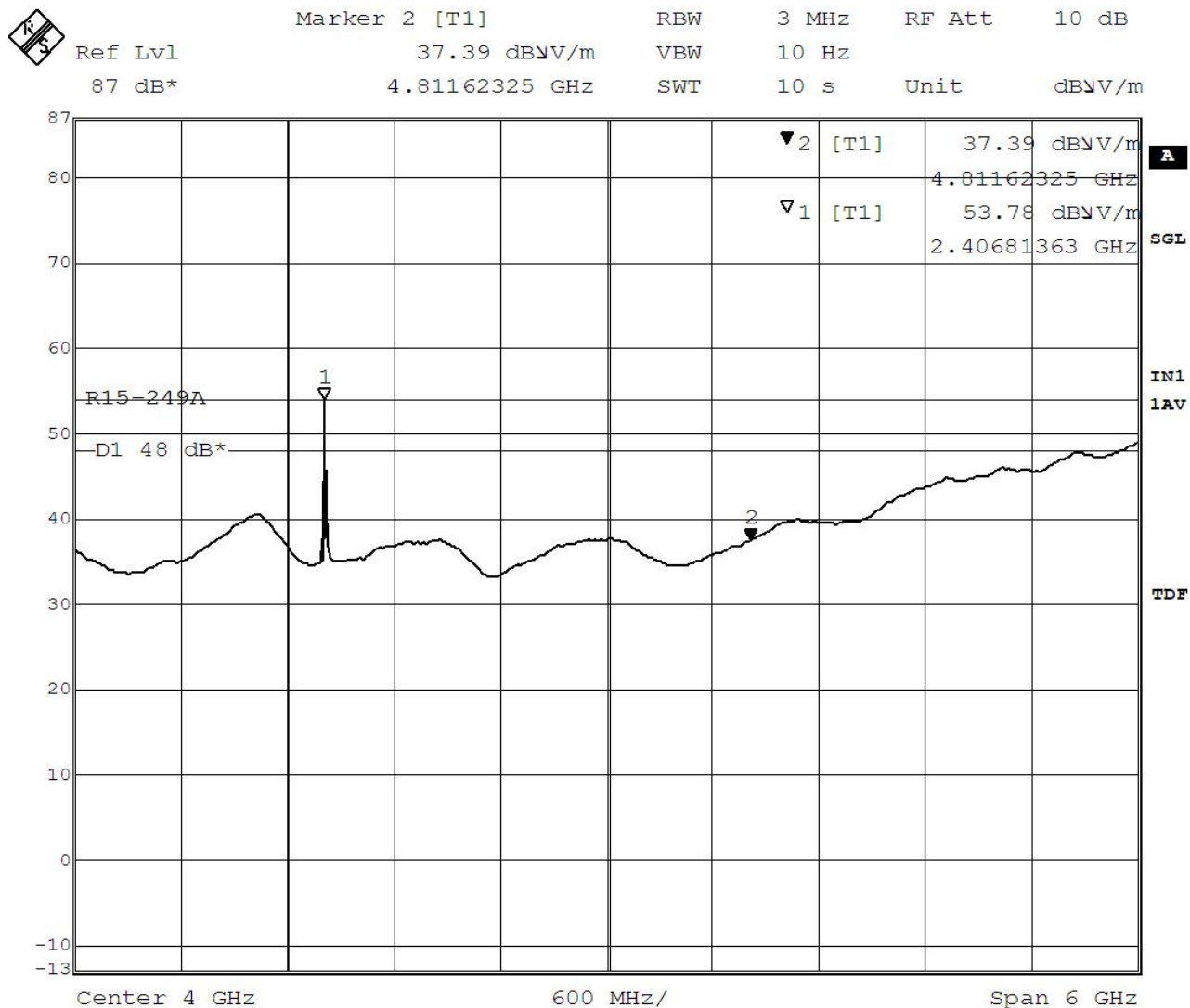
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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH1(2407MHz)

Frequency Range: 1GHz-7GHz (Vertical)



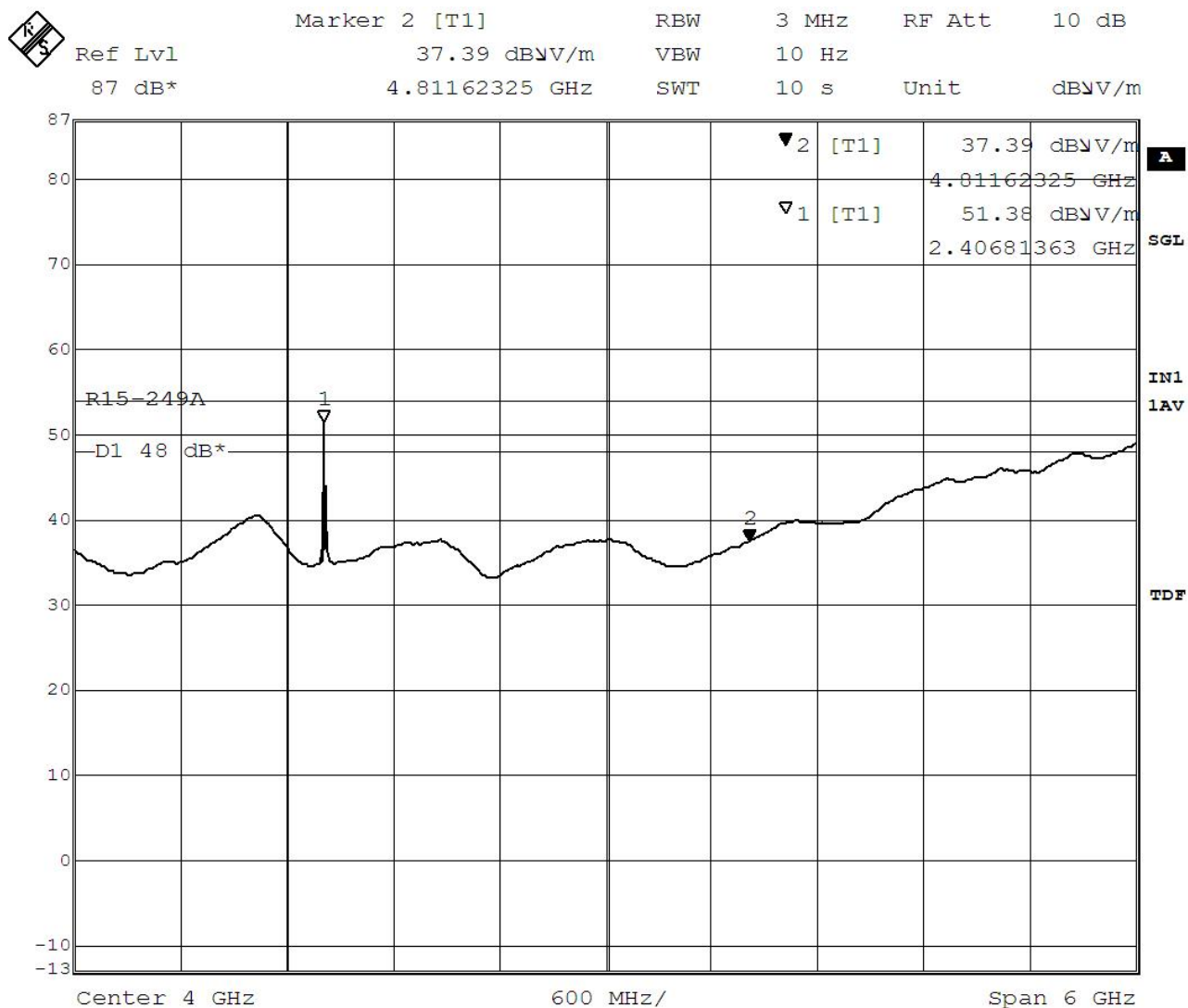
Date: 10.AUG.2009 09:17:07

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2407	53.78	94.00	Average	Peak
4011	37.39	54.00	Average	Peak

Remark: Emission Level=Reading.

Test Results of Radiated Emissions: CH1(2407MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 09:17:38

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2407	51.38	94.00	Average	Peak
4017	37.39	54.00	Average	Peak

Remark: Emission Level=Reading.



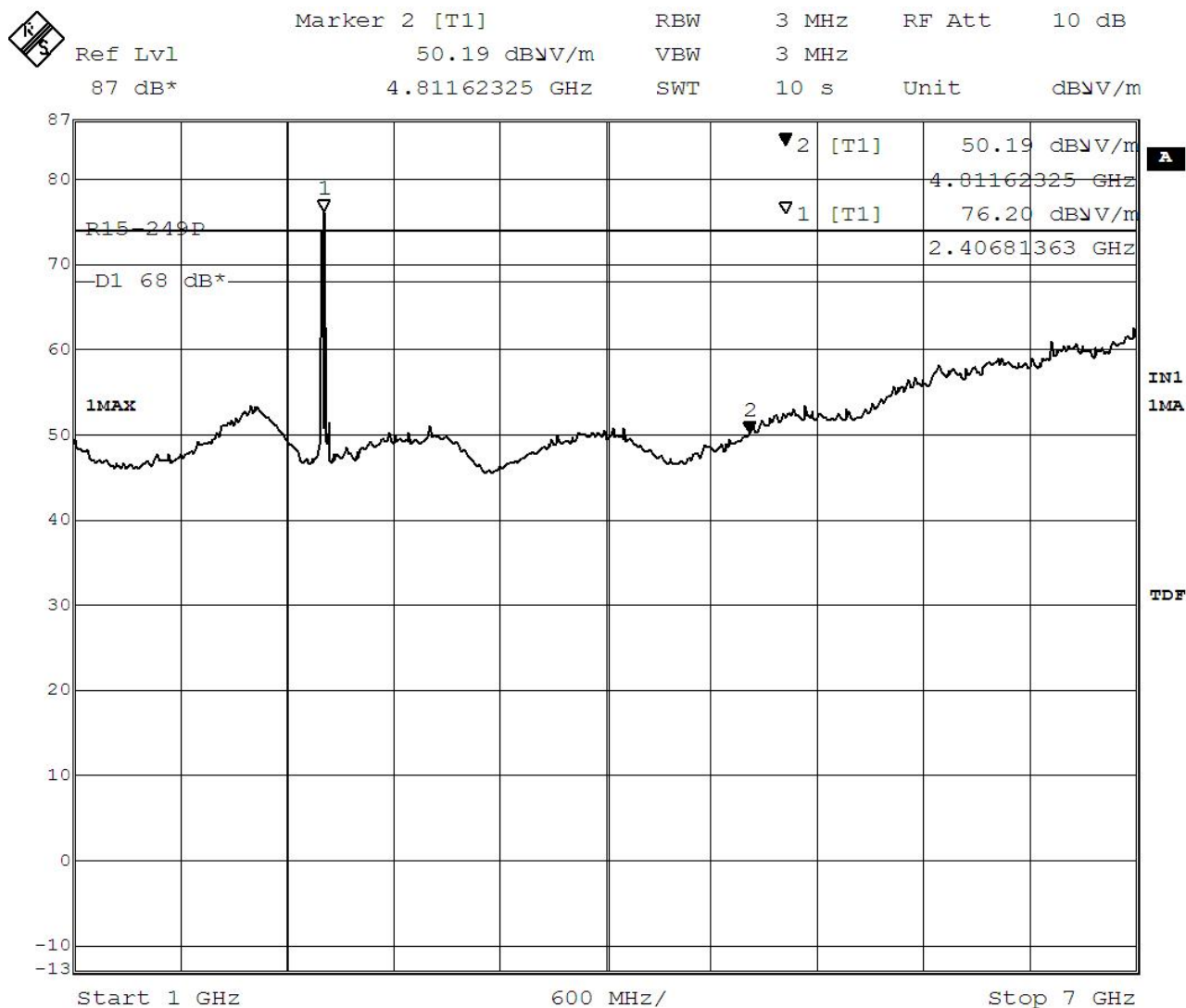
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH1(2407MHz)

Frequency Range: 1GHz-7GHz (Vertical)



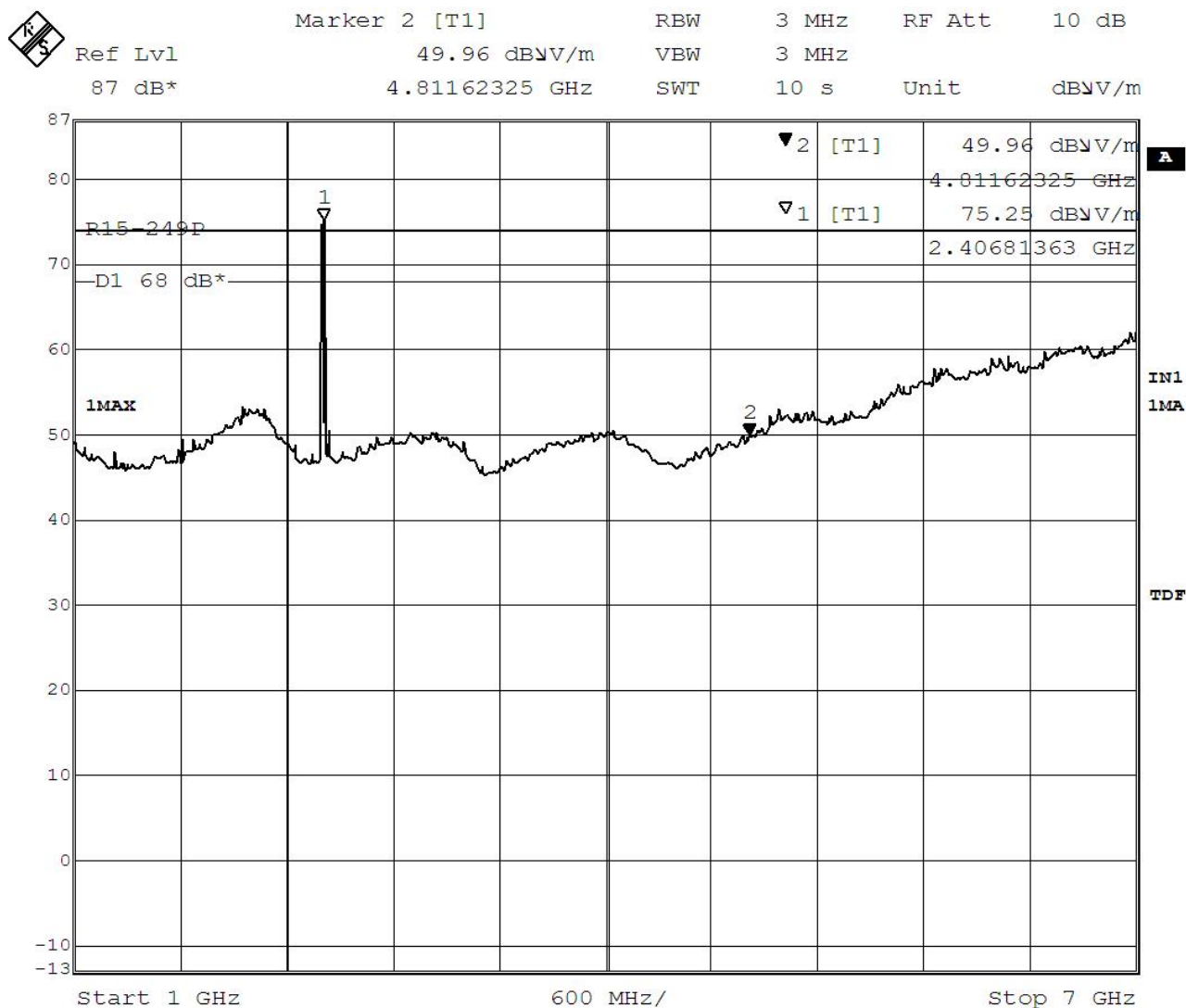
Date: 10.AUG.2009 08:32:38

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2407	76.20	114.00	Peak	Peak
4011	50.19	74.00	Peak	Peak

Remark: Emission Level=Reading.

Test Results of Radiated Emissions: CH1(2407MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 08:27:24

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2407	75.25	114.00	Peak	Peak
4011	49.96	74.00	Peak	Peak

Remark: Emission Level=Reading.



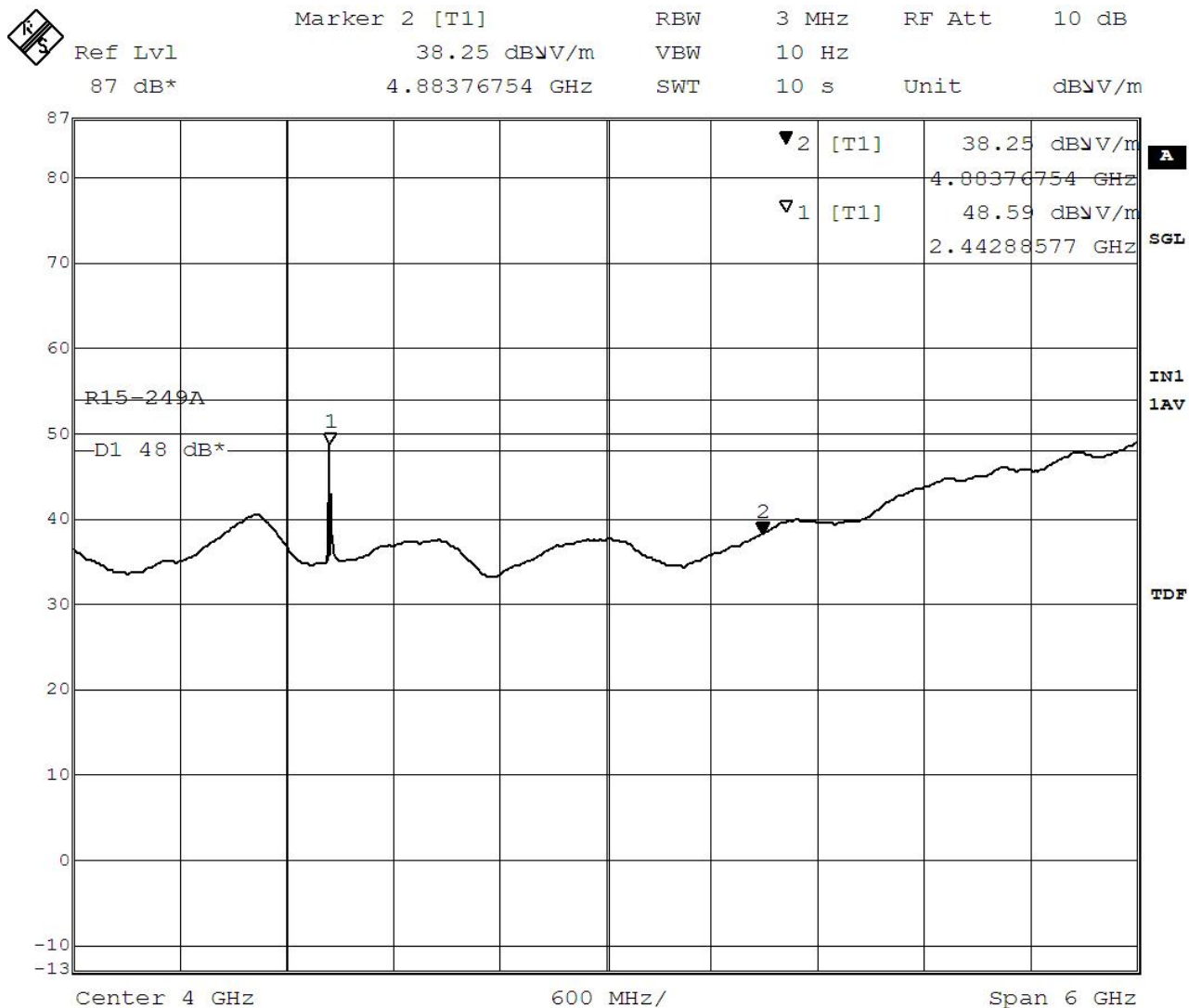
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH2(2443MHz)

Frequency Range: 1GHz-7GHz (Vertical)



Date: 10.AUG.2009 09:23:49

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2443	48.59	94.00	Average	Peak
4003	38.25	54.00	Average	Peak

Remark: Emission Level=Reading.



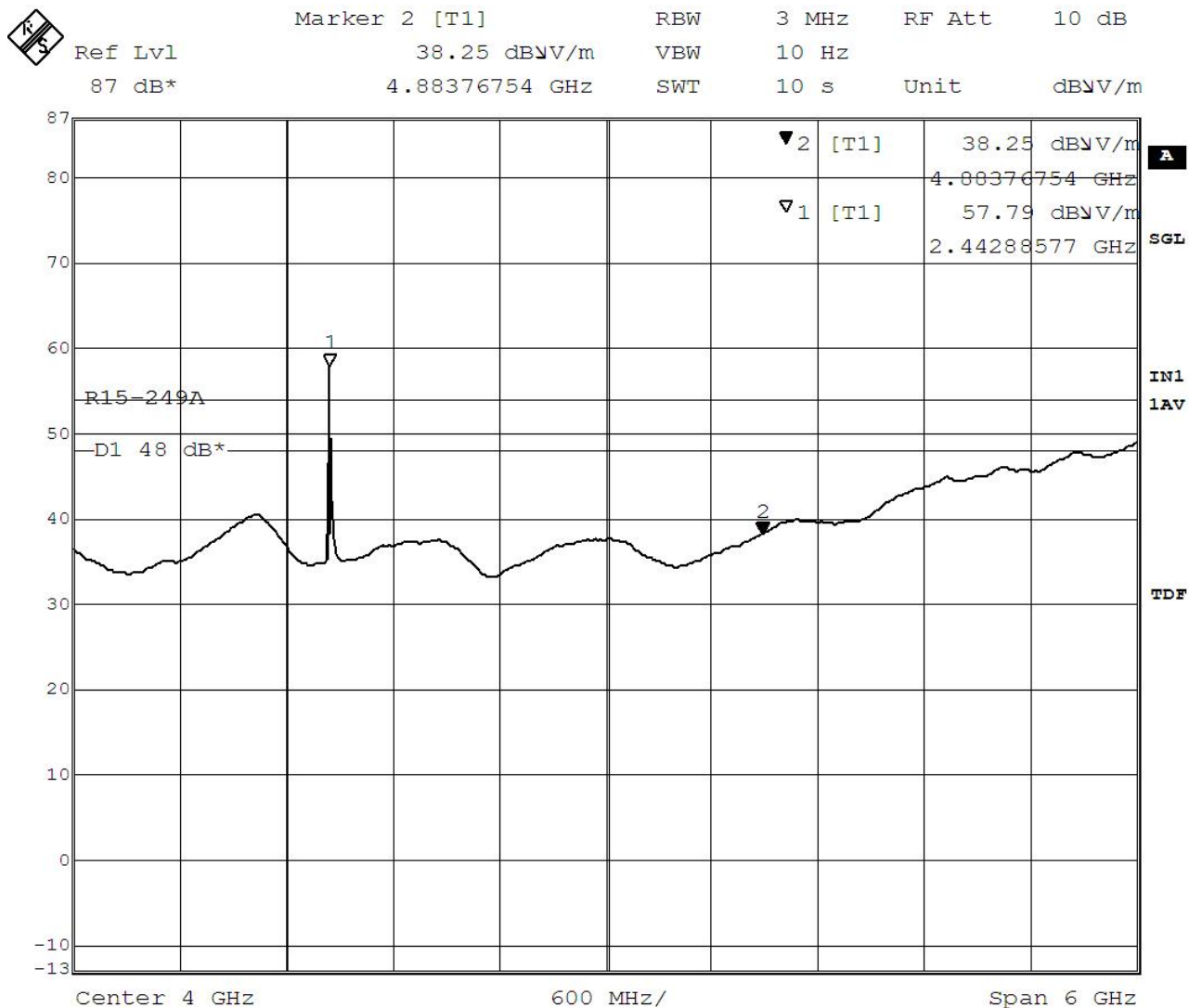
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH2(2443MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 09:22:25

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2443	57.79	94.00	Average	Peak
4003	38.25	54.00	Average	Peak

Remark: Emission Level=Reading.



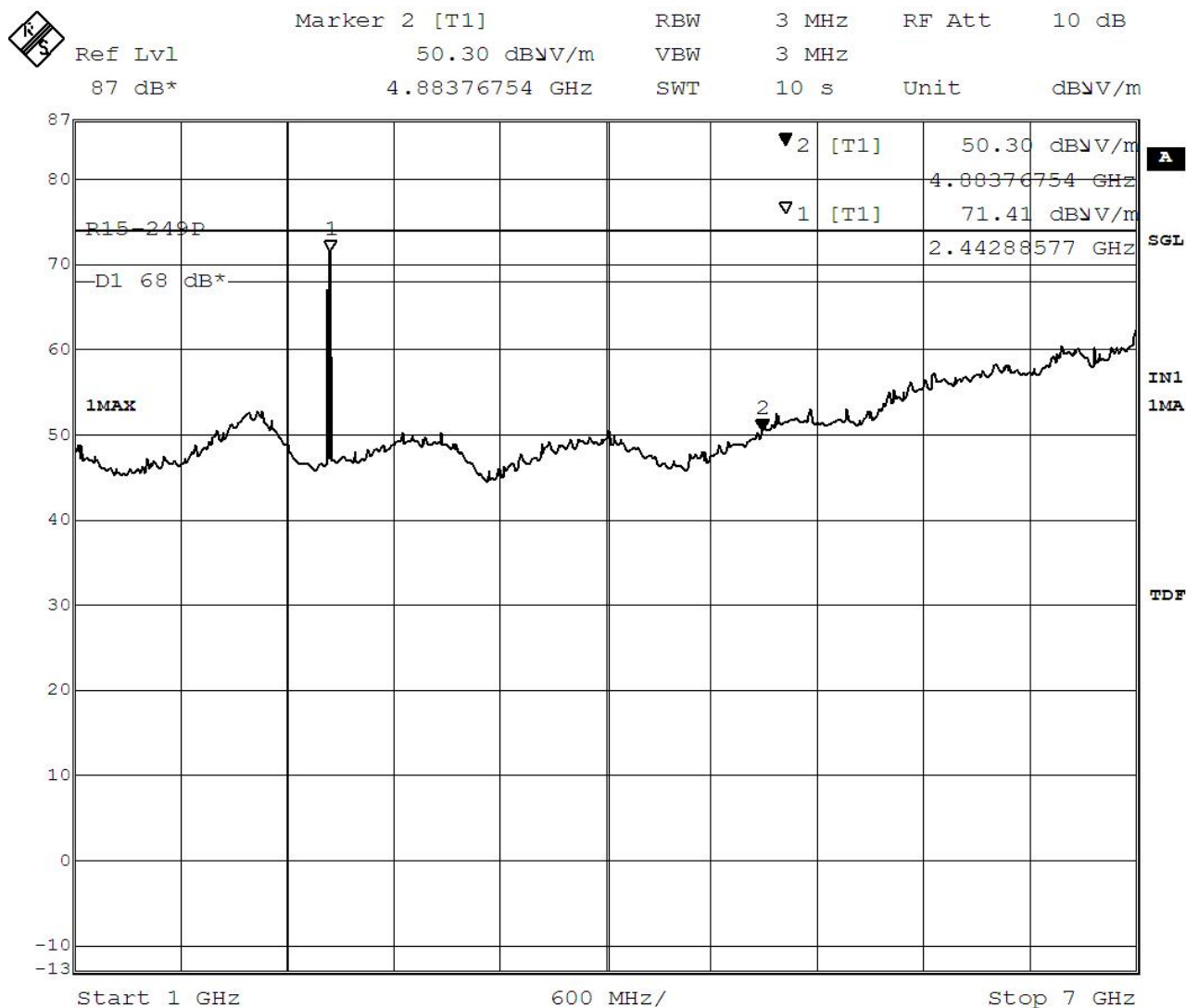
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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH2 (2443MHz)

Frequency Range: 1GHz-7GHz (Vertical)



Date: 10.AUG.2009 08:43:20

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2443	71.41	114.00	Peak	Peak
4003	50.30	74.00	Peak	Peak

Remark: Emission Level=Reading.



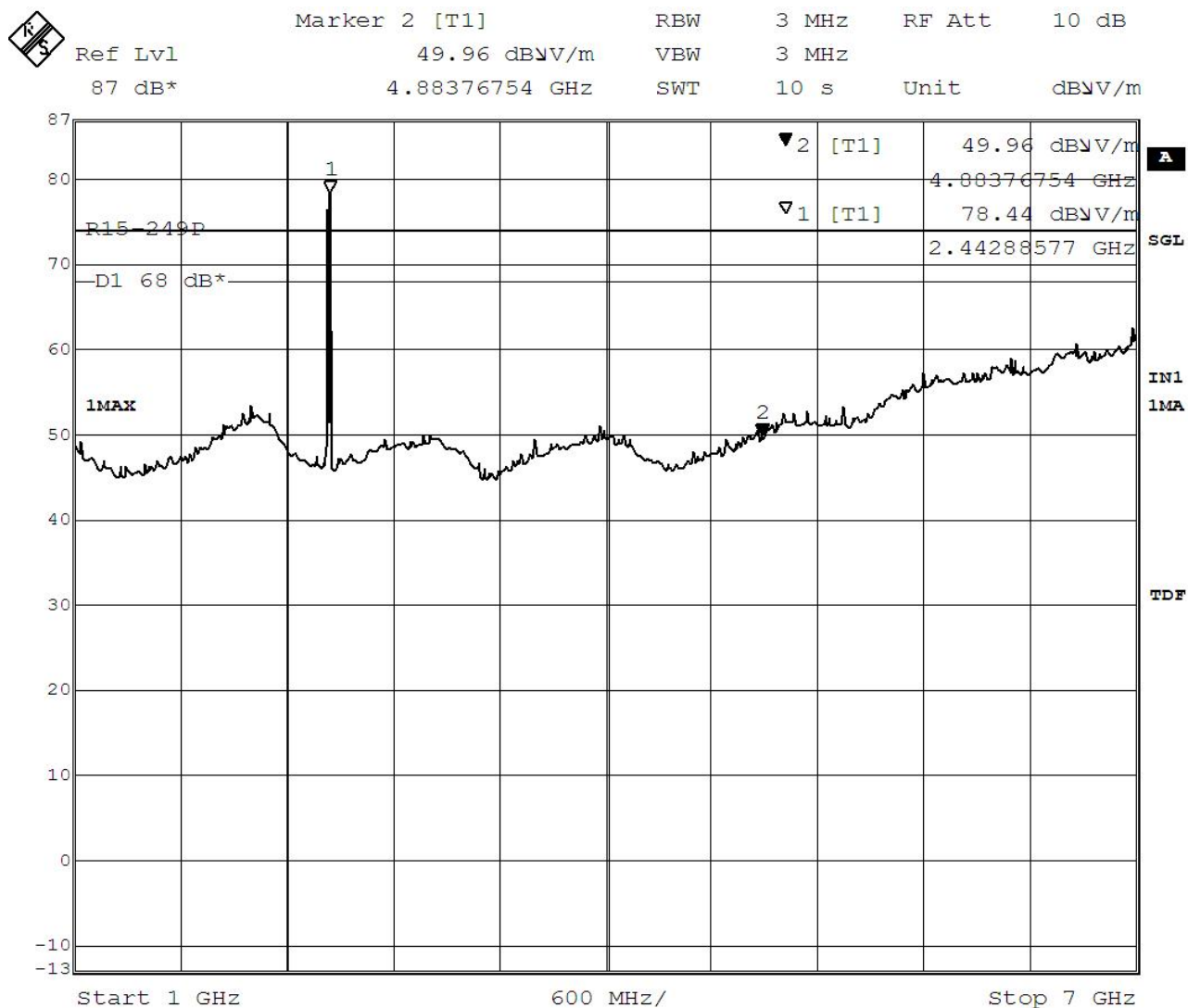
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH2 (2443MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 08:42:06

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2443	78.44	114.00	Peak	Peak
4003	49.96	74.00	Peak	Peak

Remark: Emission Level=Reading.



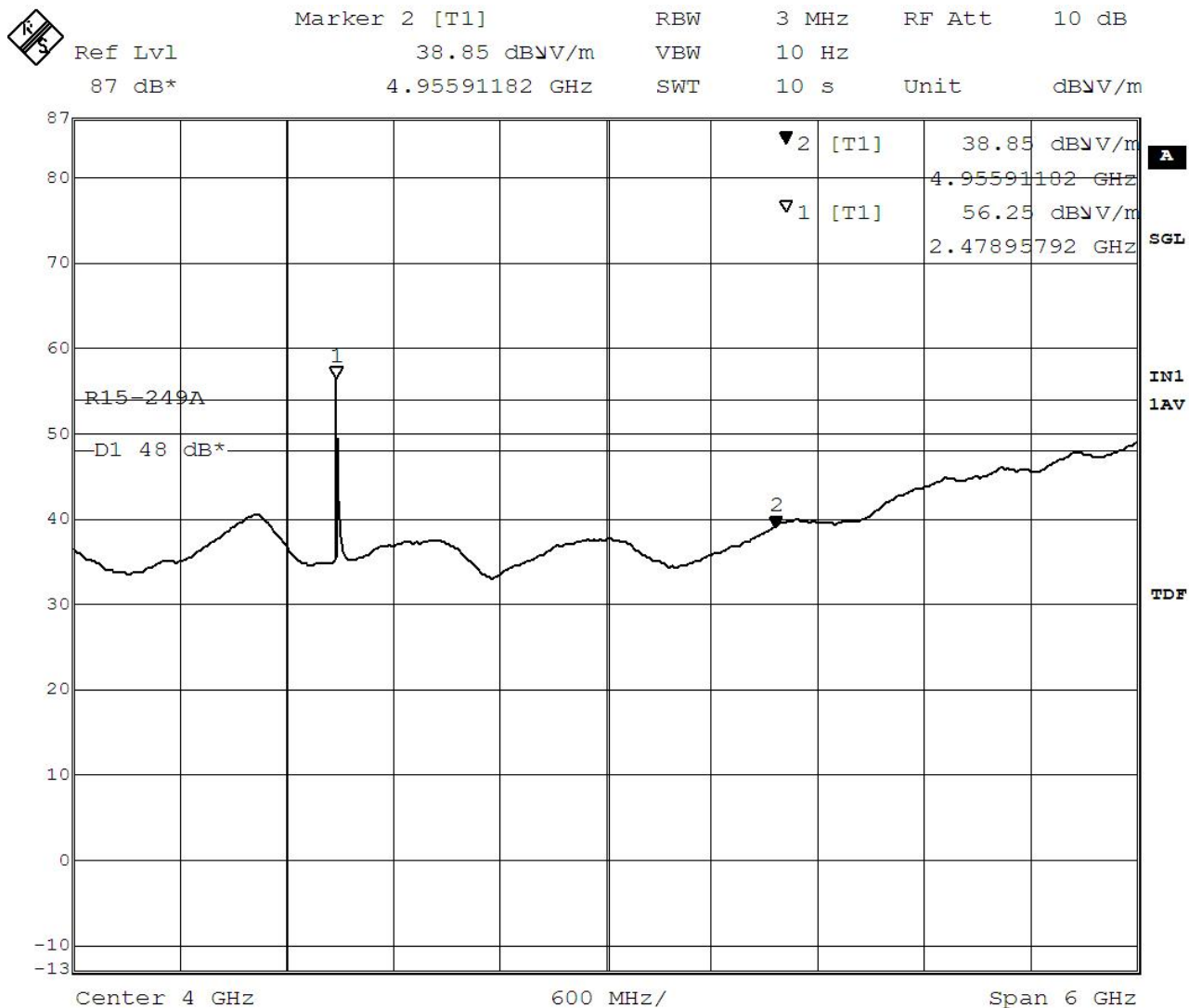
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Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH3 (2479MHz)

Frequency Range: 1GHz-7GHz (Vertical)



Date: 10.AUG.2009 09:07:32

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2479	56.25	94.00	Average	Peak
4956	38.85	54.00	Average	Peak

Remark: Emission Level=Reading.



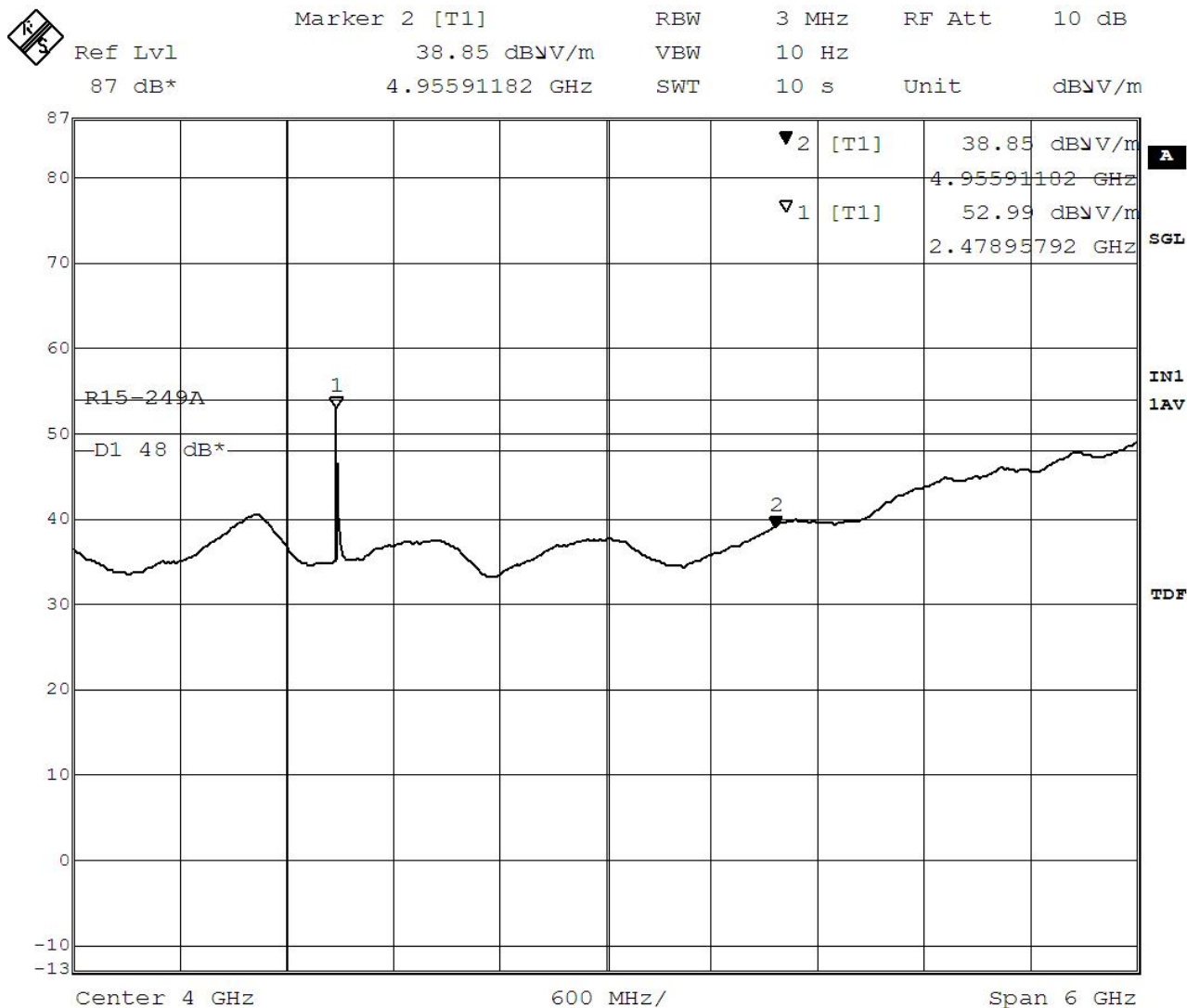
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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH3 (2479MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 09:04:39

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2479	52.99	94.00	Average	Peak
4956	38.85	54.00	Average	Peak

Remark: Emission Level=Reading.



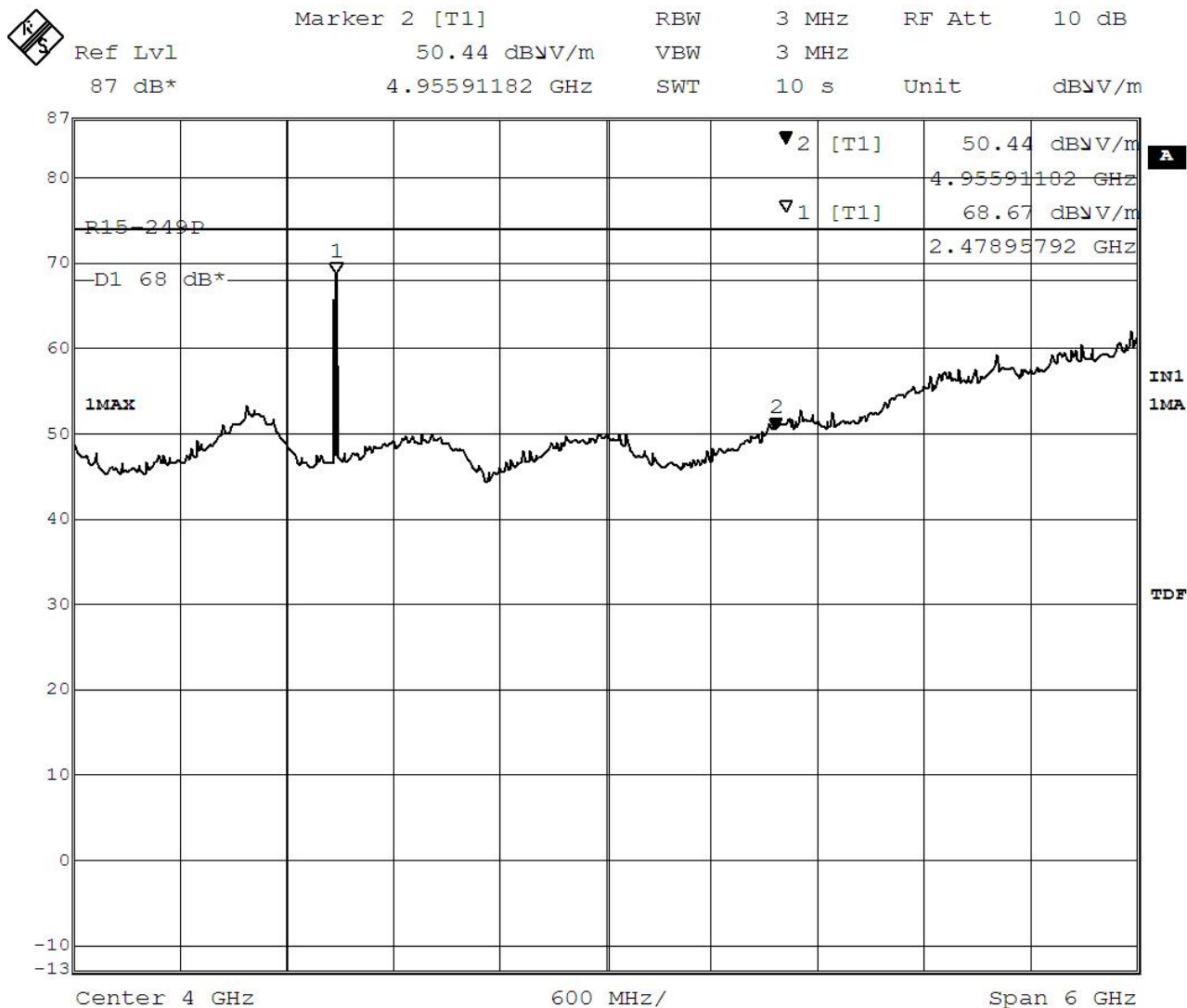
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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH3 (2479MHz)

Frequency Range: 1GHz-7GHz (Vertical)



Date: 10.AUG.2009 08:55:18

Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2479	68.67	114.00	Peak	Peak
4956	50.44	74.00	Peak	Peak

Remark: Emission Level=Reading.



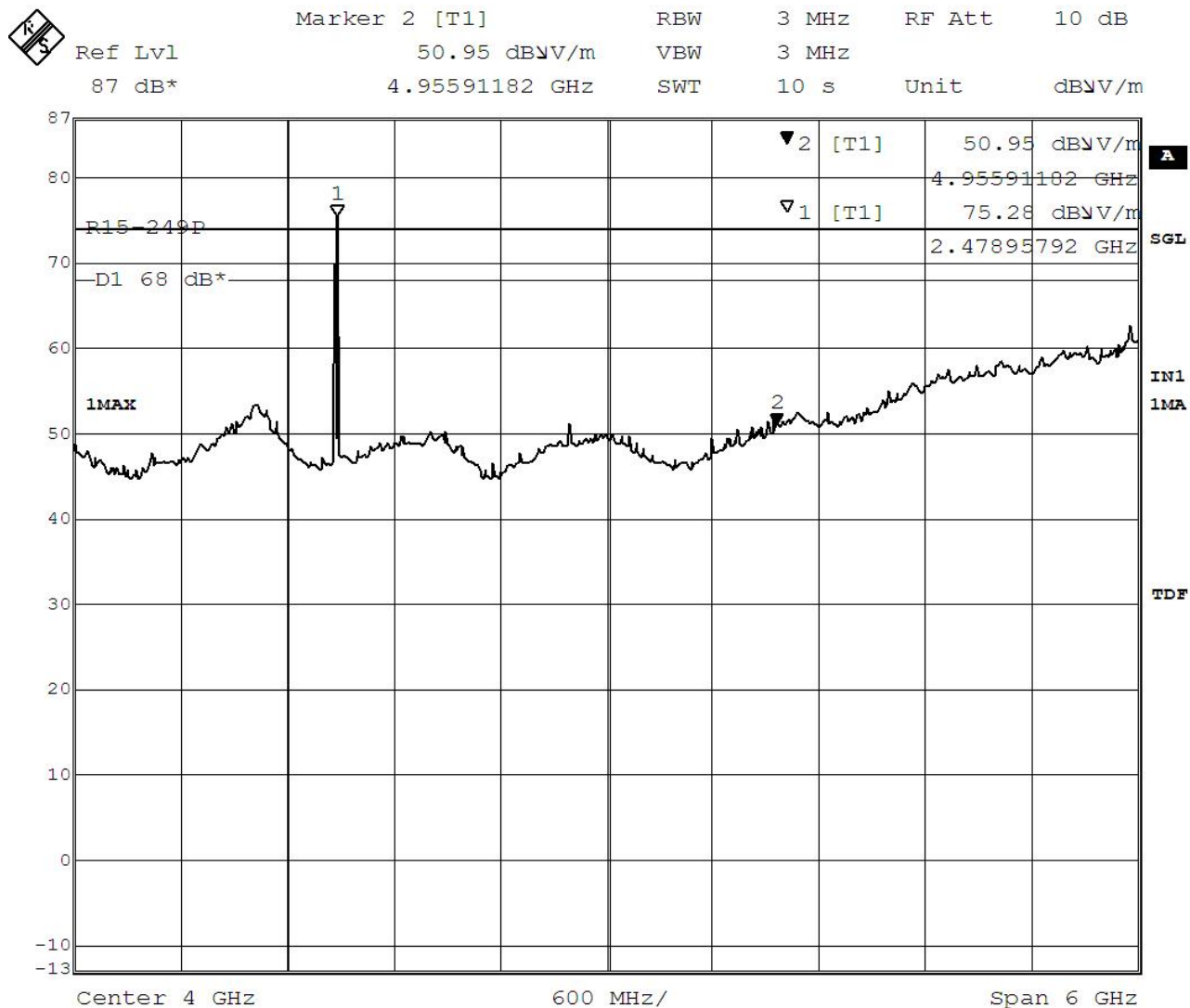
Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Results of Radiated Emissions: CH3 (2479MHz)

Frequency Range: 1GHz-7GHz (Horizontal)



Date: 10.AUG.2009 08:58:03

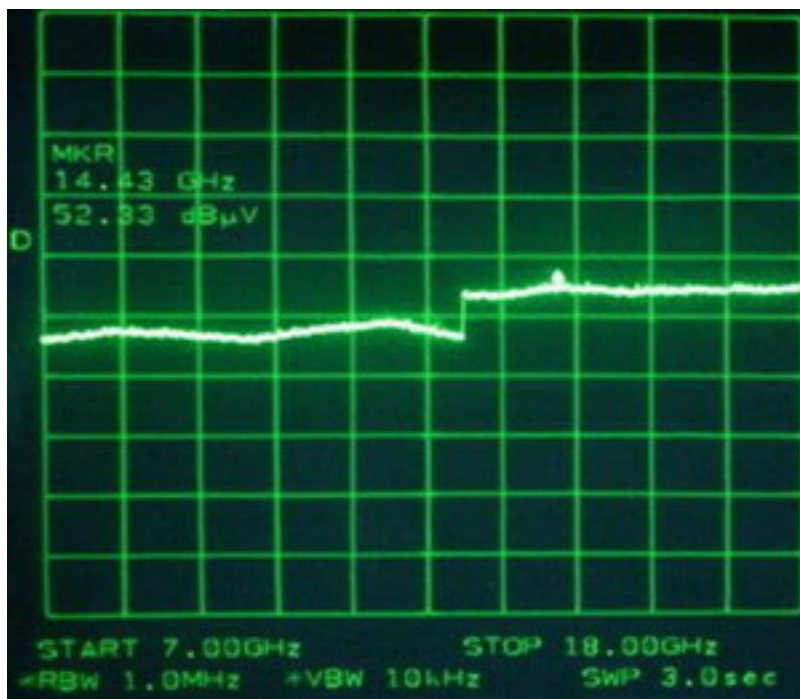
Frequency MHz	Emission Level dB μ V/m	Limits dB μ V/m	Measurement	Detector
2479	75.28	114.00	Peak	Peak
4956	50.95	74.00	Peak	Peak

Remark: Emission Level=Reading.

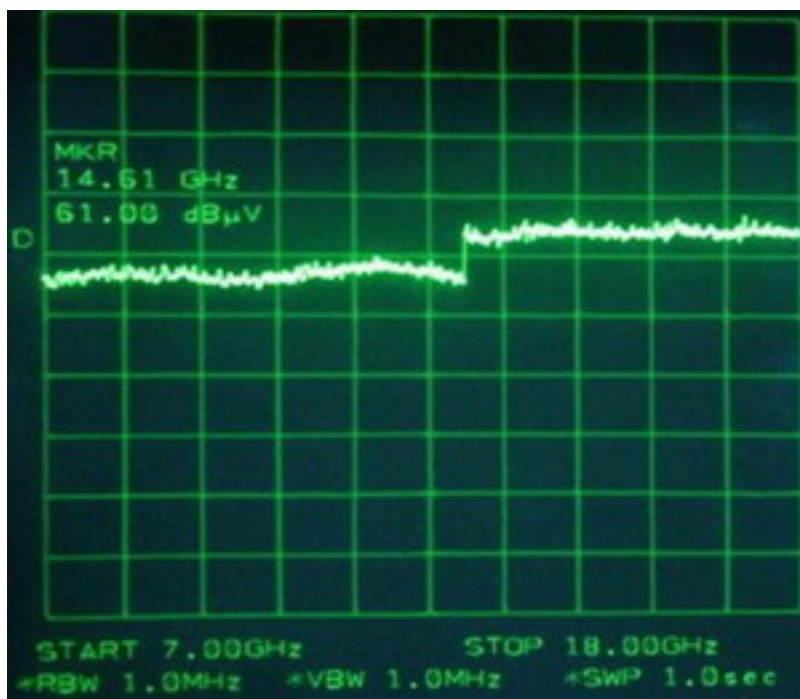
Test Results of Radiated Emissions: CH1 (2404MHz)

Frequency Range: 7GHz-24GHz (Vertical)

Average



Peak



Remark: Emission Level= Reading.

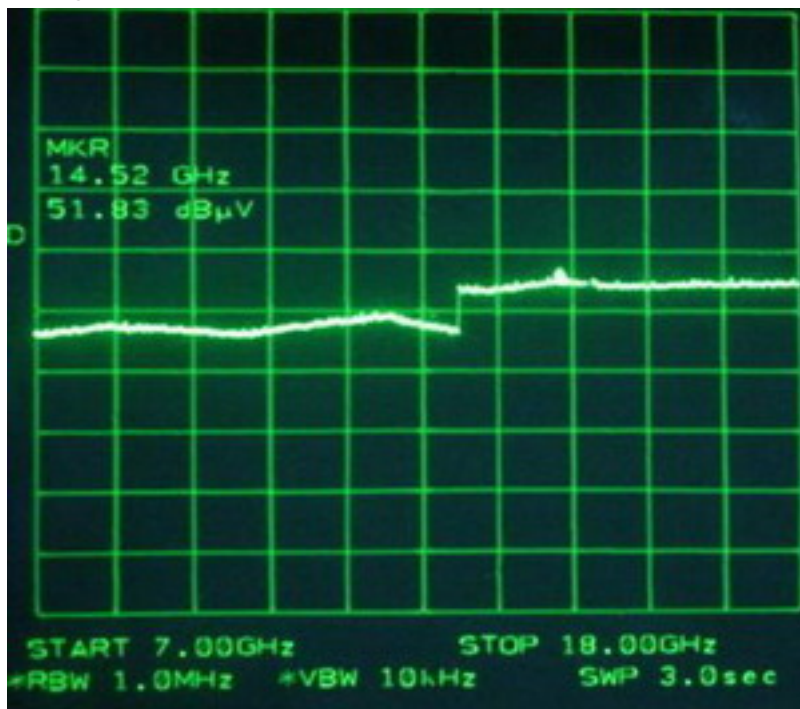
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Report No.:CGEL2009W0222

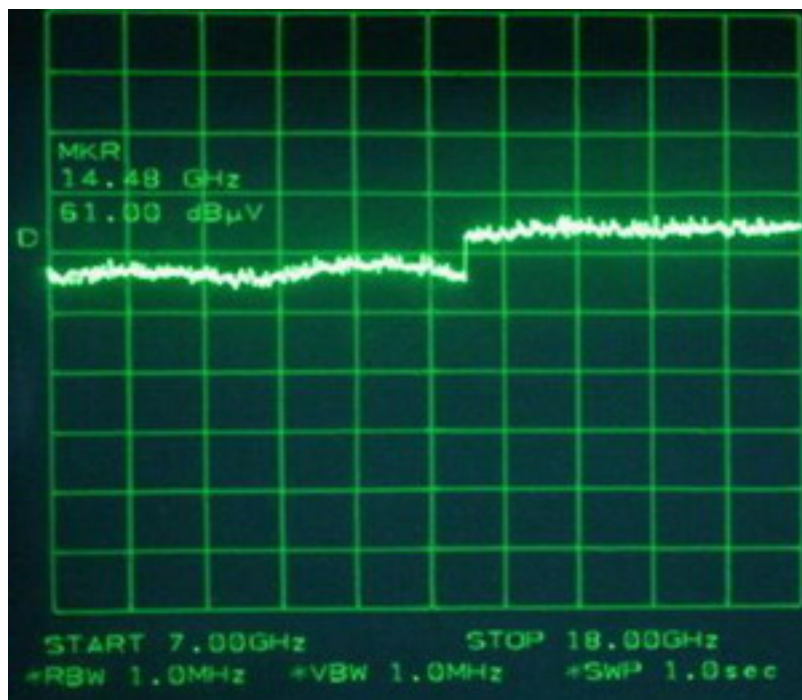
Test Results of Radiated Emissions: CH1 (2404MHz)

Frequency Range: 7GHz-24GHz (Horizontal)

Average



Peak



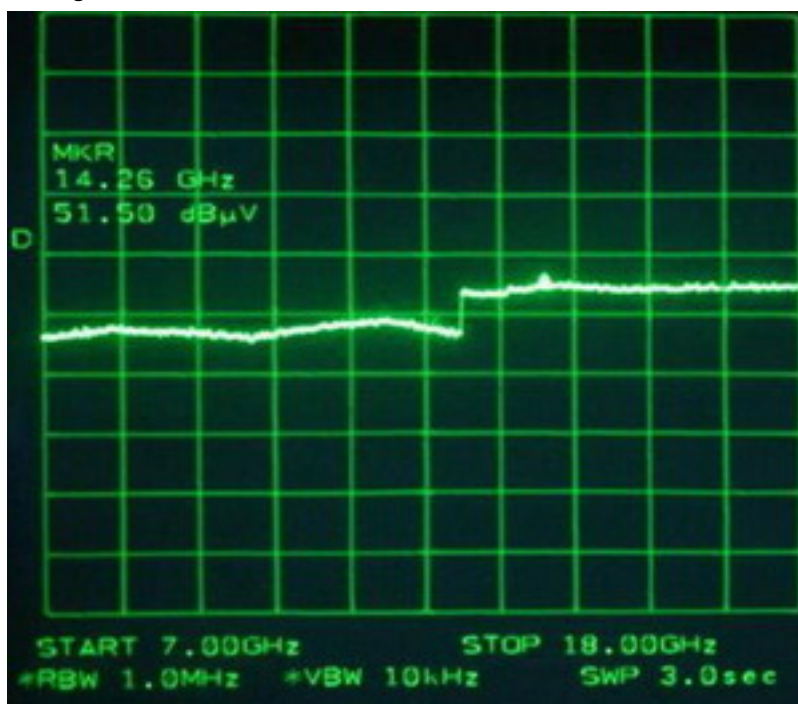
Remark: Emission Level= Reading.



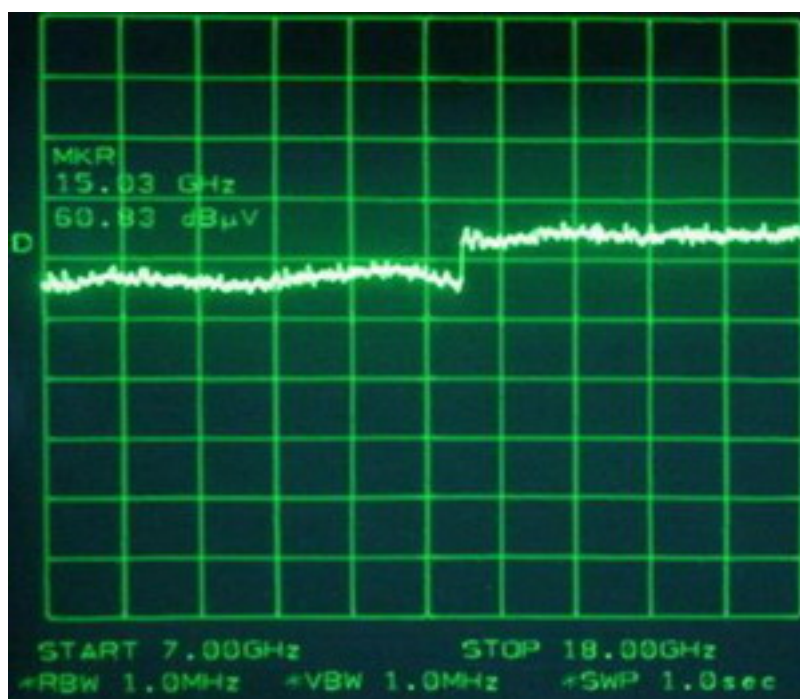
Test Results of Radiated Emissions: CH2 (2444MHz)

Frequency Range: 7GHz-24GHz (Vertical)

Average



Peak



Remark: Emission Level= Reading.

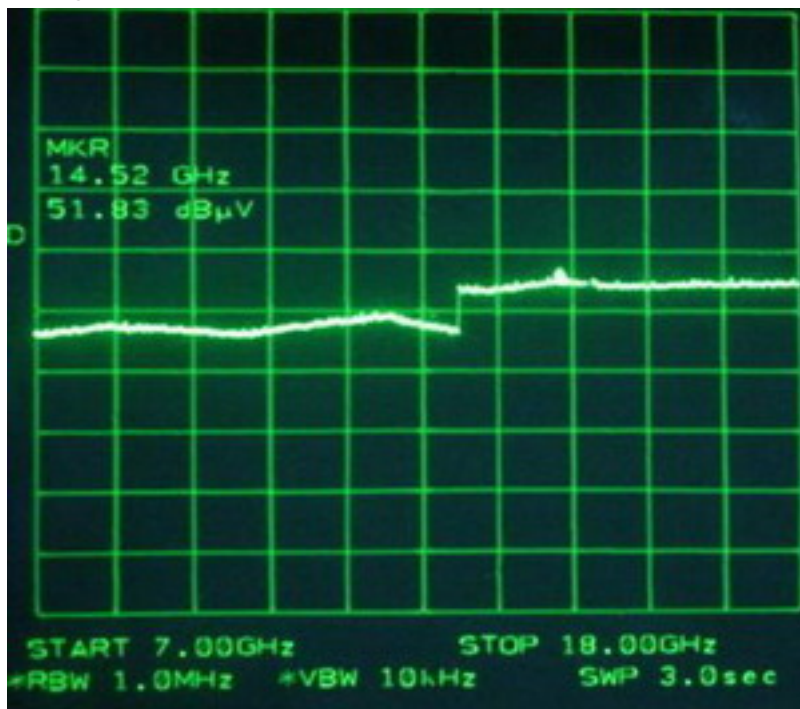
FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

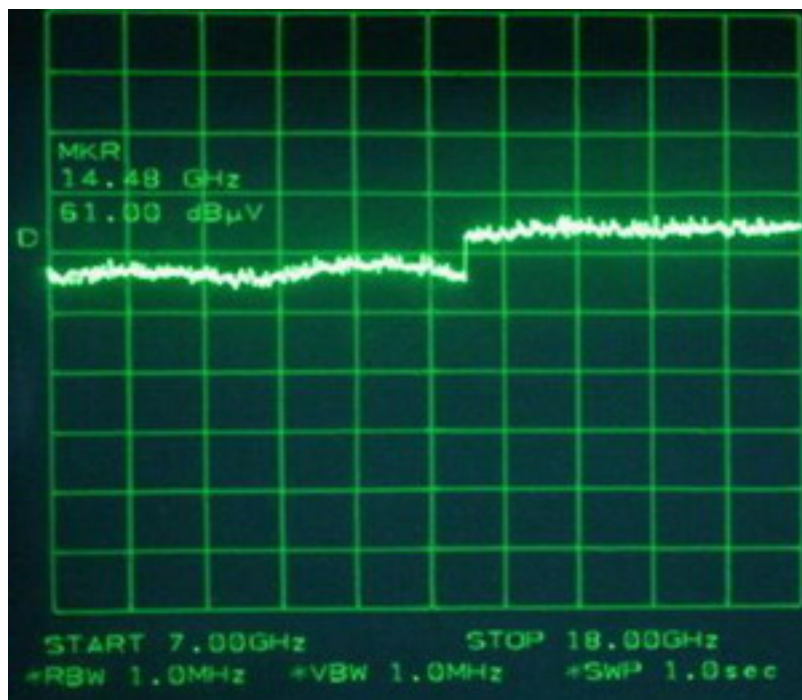
Test Results of Radiated Emissions: CH2 (2444MHz)

Frequency Range: 7GHz-24GHz (Horizontal)

Average



Peak



Remark: Emission Level= Reading.

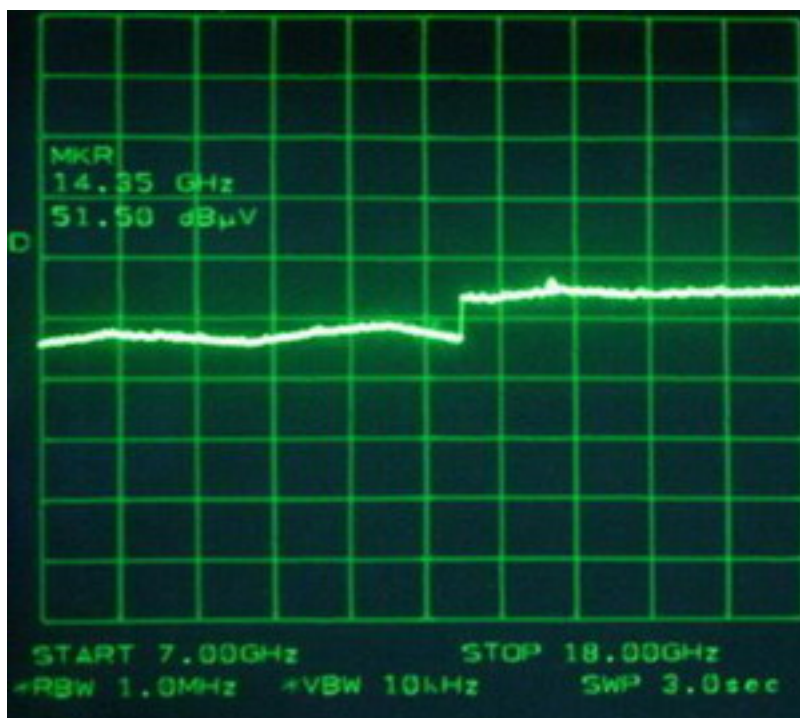
FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

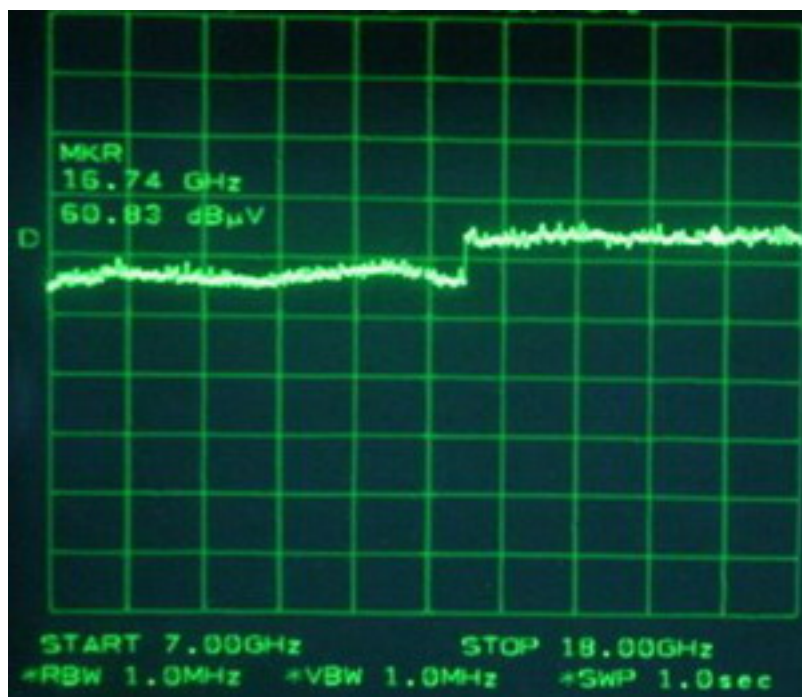
Test Results of Radiated Emissions: CH3 (2482MHz)

Frequency Range: 7GHz-24GHz (Vertical)

Average



Peak



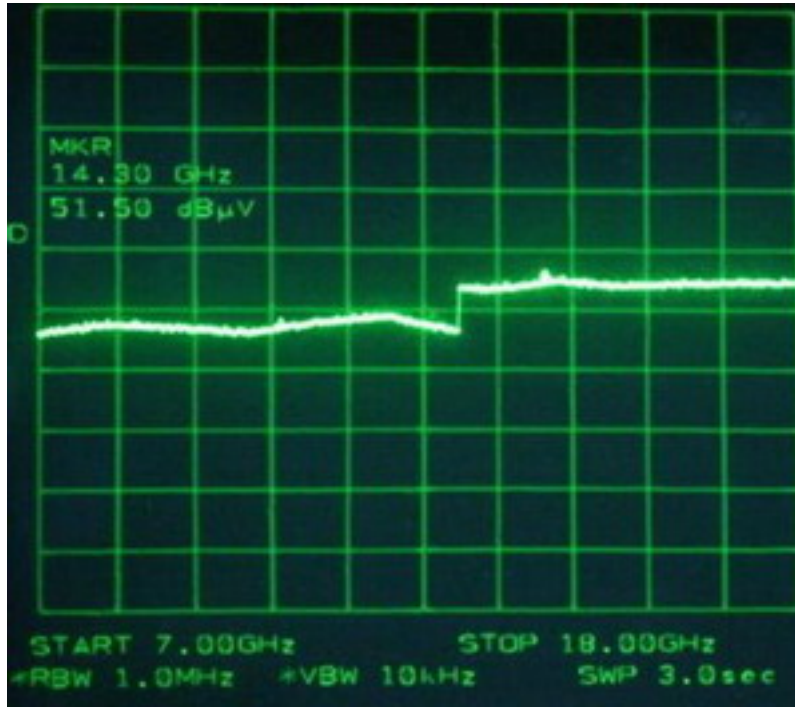
Remark: Emission Level= Reading.



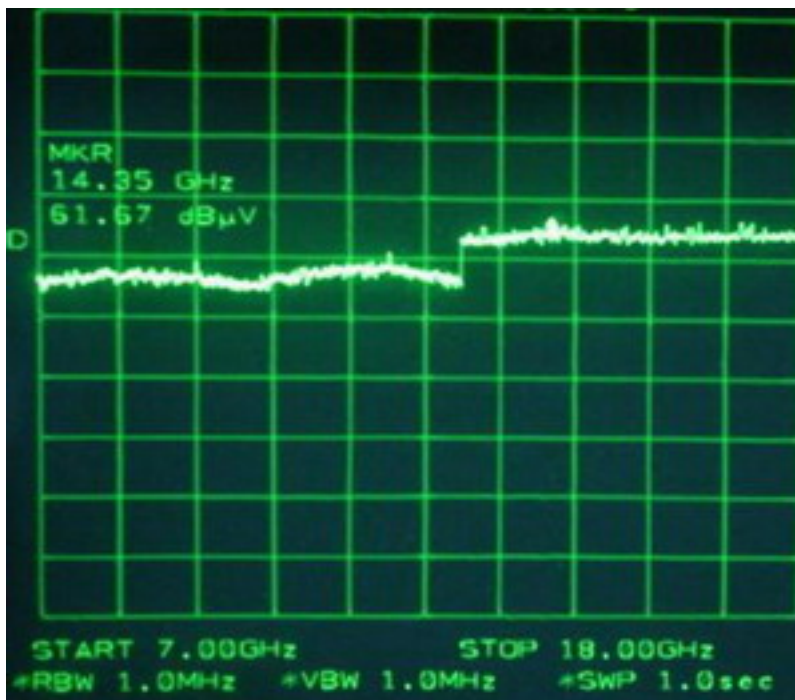
Test Results of Radiated Emissions: CH3 (2482MHz)

Frequency Range: 7GHz-24GHz (Horizontal)

Average



Peak



Remark: Emission Level= Reading.



5. Band Edge Measurement

Test requirement:	FCC 47CFR 15.249(d)
Test date:	2009-08-07
Environment condition:	Temperature:22.0 °C, Humidity: 56.0 %RH, Pressure: 101.0kPa
Conclusion:	Pass

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	EMI Receiver	R&S	ESIB7	2009/03/28	2010/03/27
2	Antenna	Xibao	GH18H	2009/05/23	2010/05/22
3	HF Cable	Xibao	/	2009/05/23	2010/05/22
4	3m anechoic chamber	ETS	RFD-F-100	2009/05/23	2010/05/22
5	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22

5.2. Test Procedure

Set spectrum analyzer to 100 kHz RBW, 300kHz VBW and 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge.

This test was performed with antenna in horizontal and the maximum value would obtain in the position. The band edges was measured and recorded in Test Results of the following pages.

5.3. Limits and Test Results

50 dB below the level of the fundamental or to the general radiated emission limits in section 15.209.

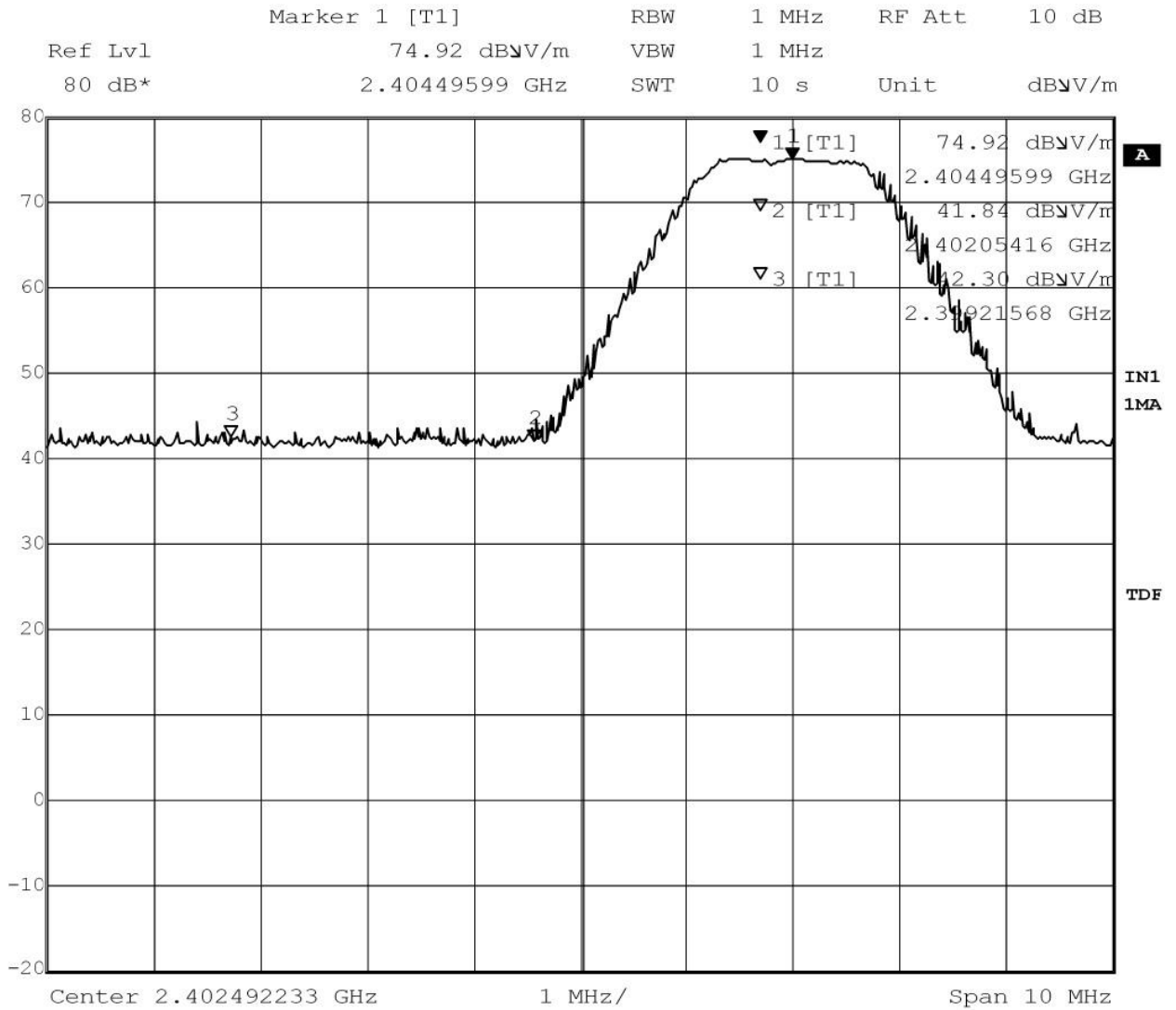


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Test Result of band edge of CH1: 2407MHz(Peak)



Date: 9.SEP.2008 16:43:49

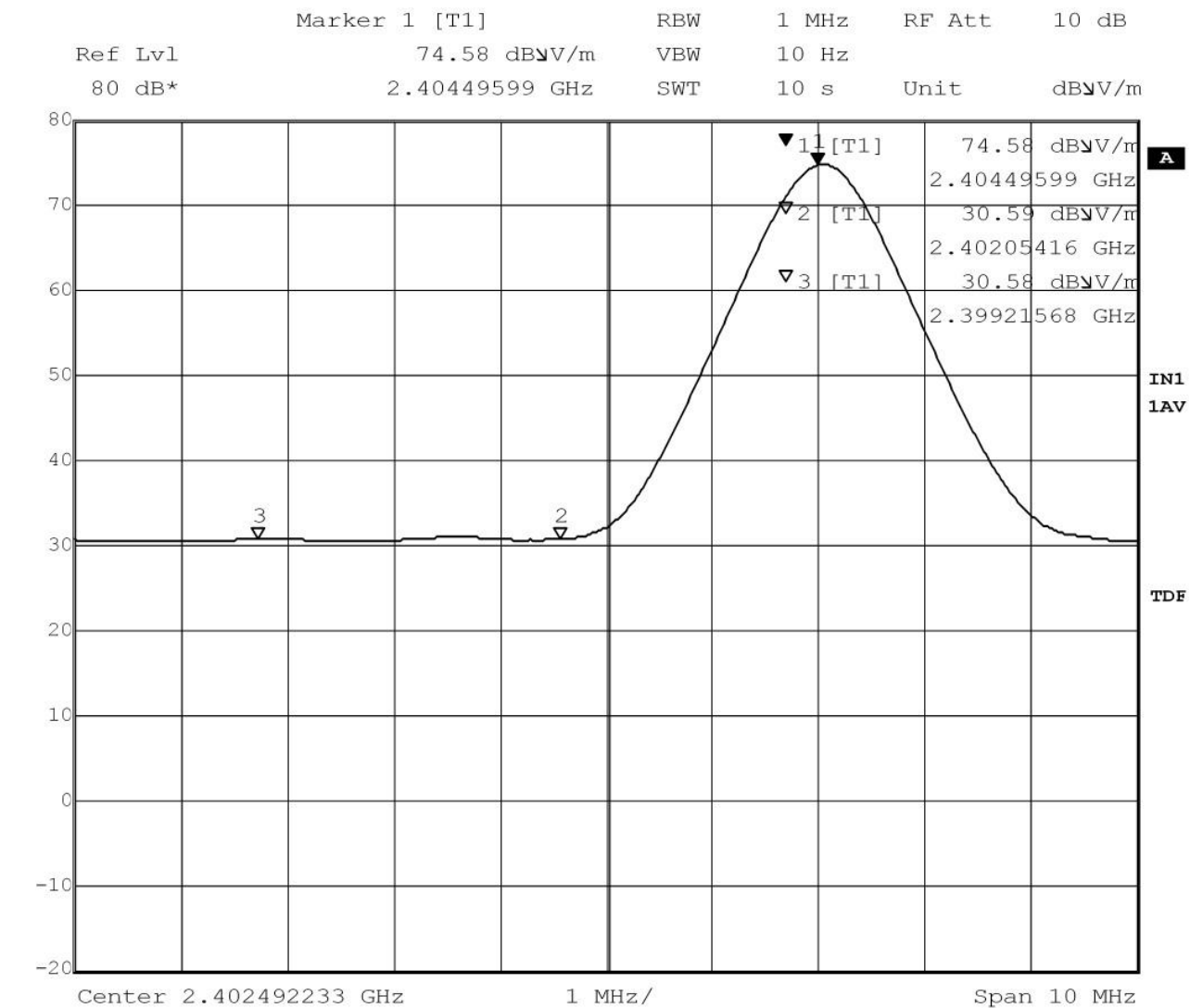


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FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

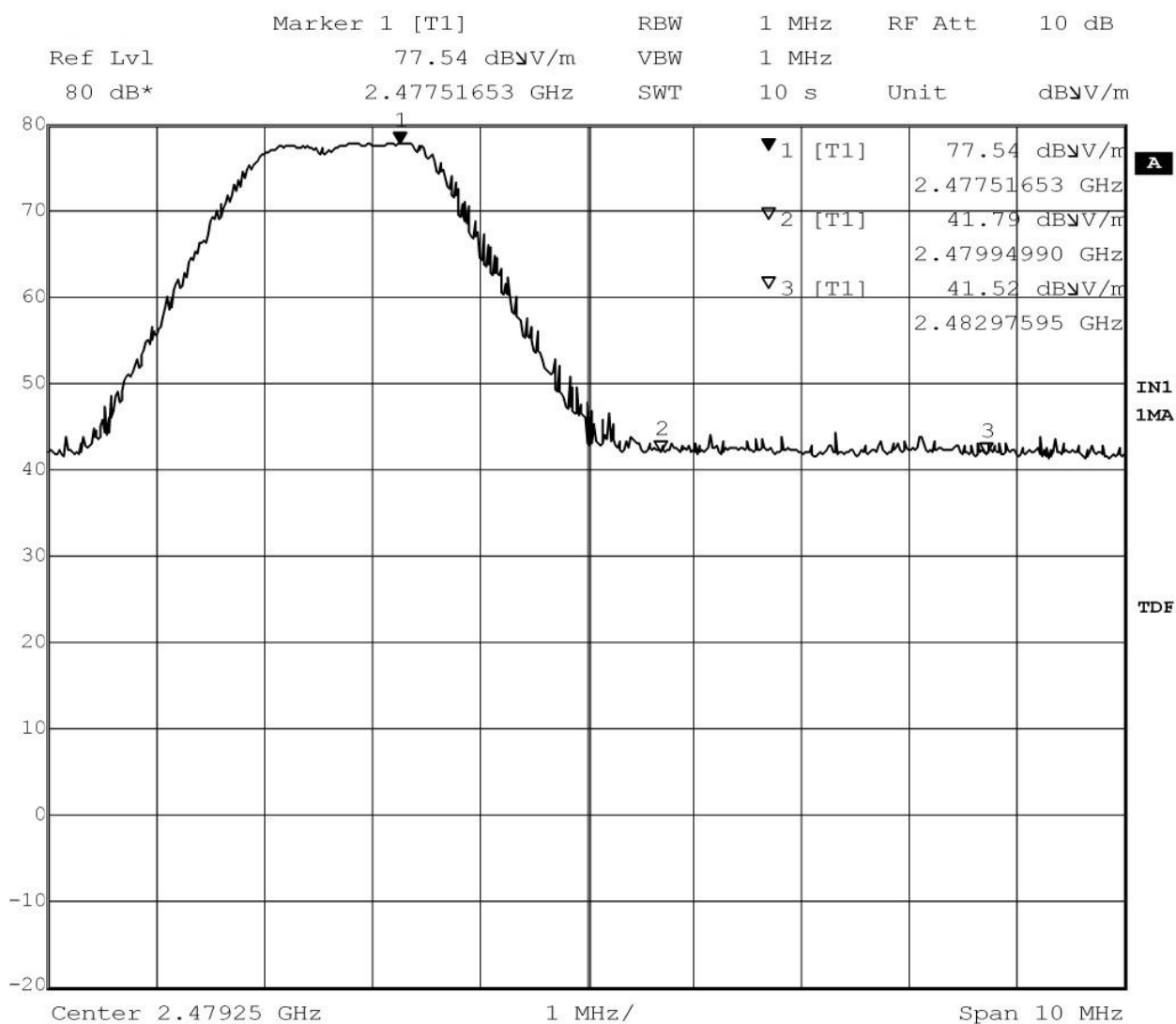
Test Result of band edge of CH1: 2407MHz(Average)



Date: 9.SEP.2008 16:41:49



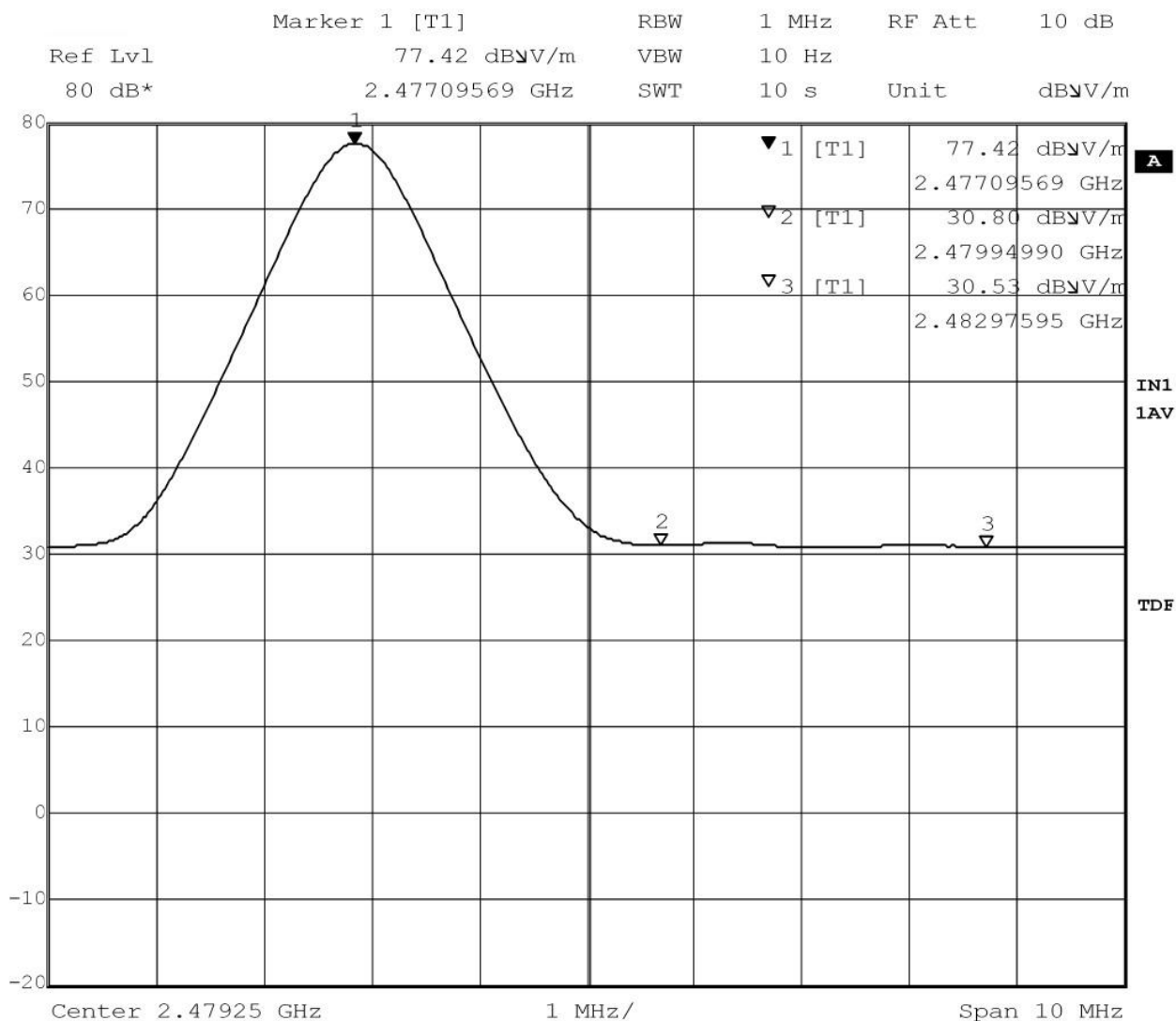
Test Result of band edge of CH3: 2479MHz(Peak)



Date: 9.SEP.2008 16:48:58



Test Result of band edge of CH3: 2479MHz(Average)



Date: 9.SEP.2008 16:50:40



6. 20dB Bandwidth Measurement

Test requirement:	FCC 47CFR 15.215(c)
Test date:	2009-04-23
Environment condition:	Temperature:22.0 °C, Humidity: 56.0 %RH, Pressure: 101.0kPa
Conclusion:	Pass

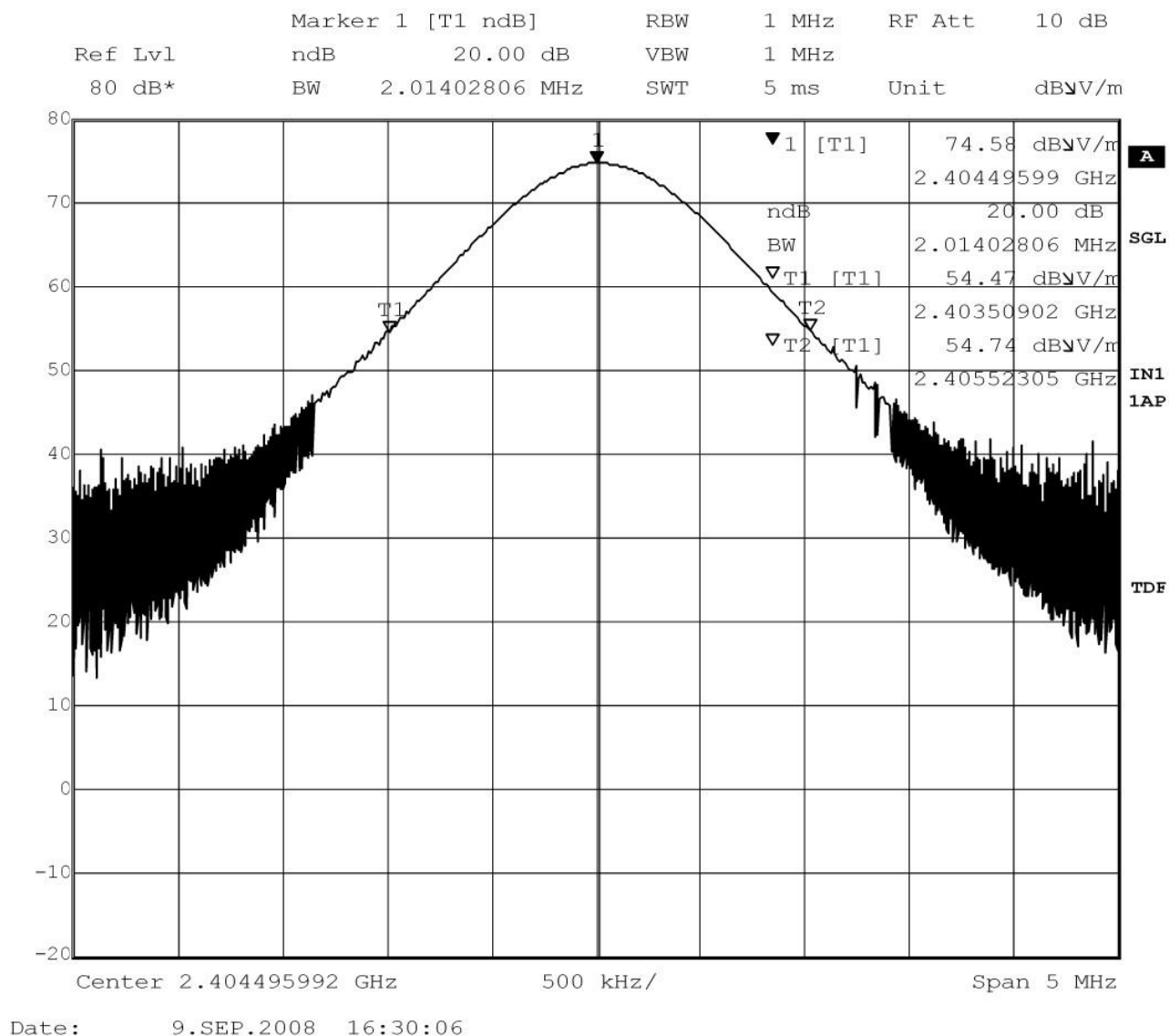
6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Due date
1	EMI Receiver	R&S	ESIB7	2009/03/28	2010/03/27
2	Antenna	Xibao	GH18H	2009/05/23	2010/05/22
3	HF Cable	Xibao	/	2009/05/23	2010/05/22
4	3m anechoic chamber	ETS	RFD-F-100	2009/05/23	2010/05/22
5	Shielding Room	ETS	RFD-100	2009/05/23	2010/05/22



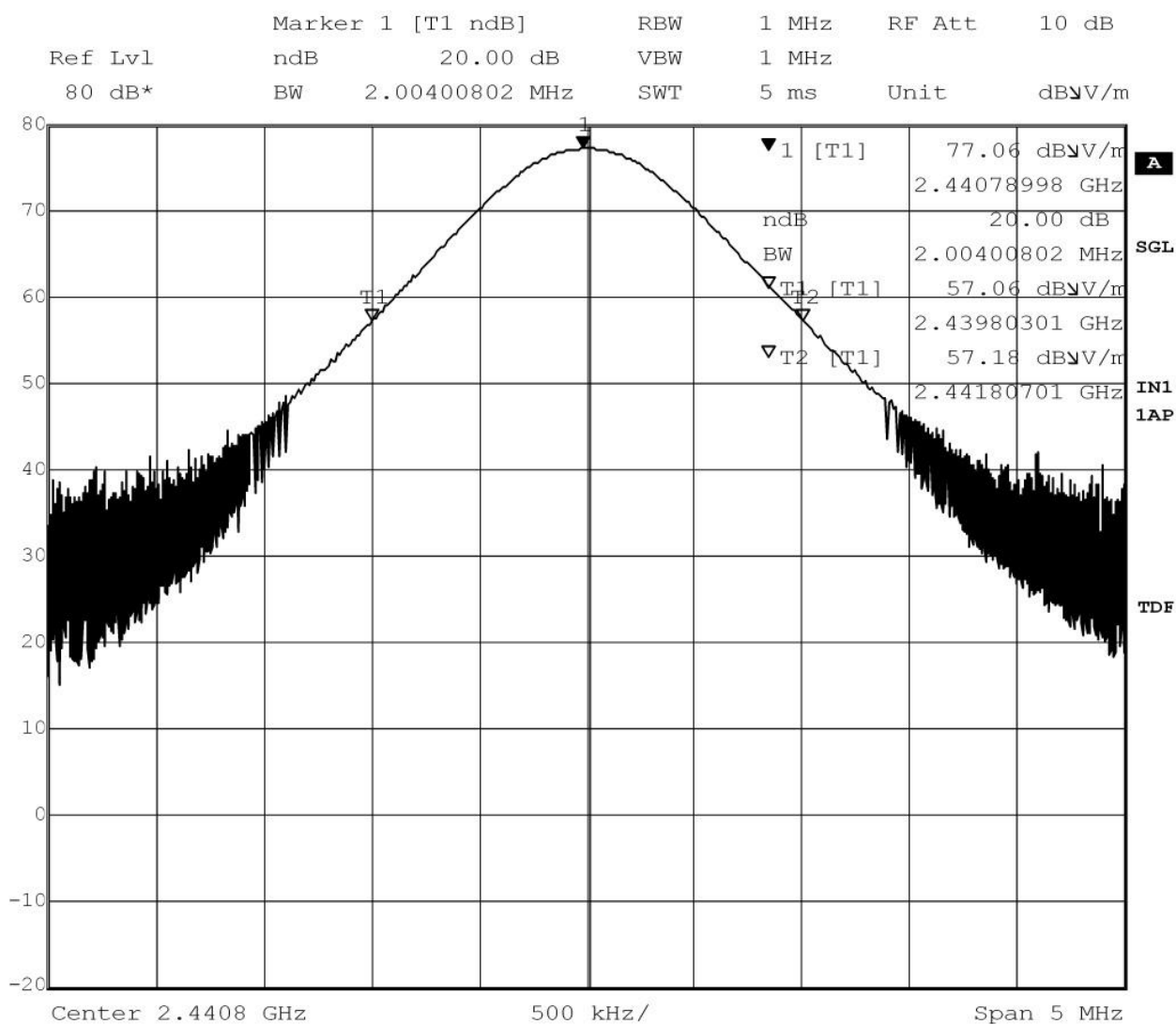
6.2. Test result

Test Result of 20dB Bandwidth of CH1: 2407MHz





Test Result of 20dB Bandwidth of CH2: 2443MHz



Date: 9.SEP.2008 16:26:48

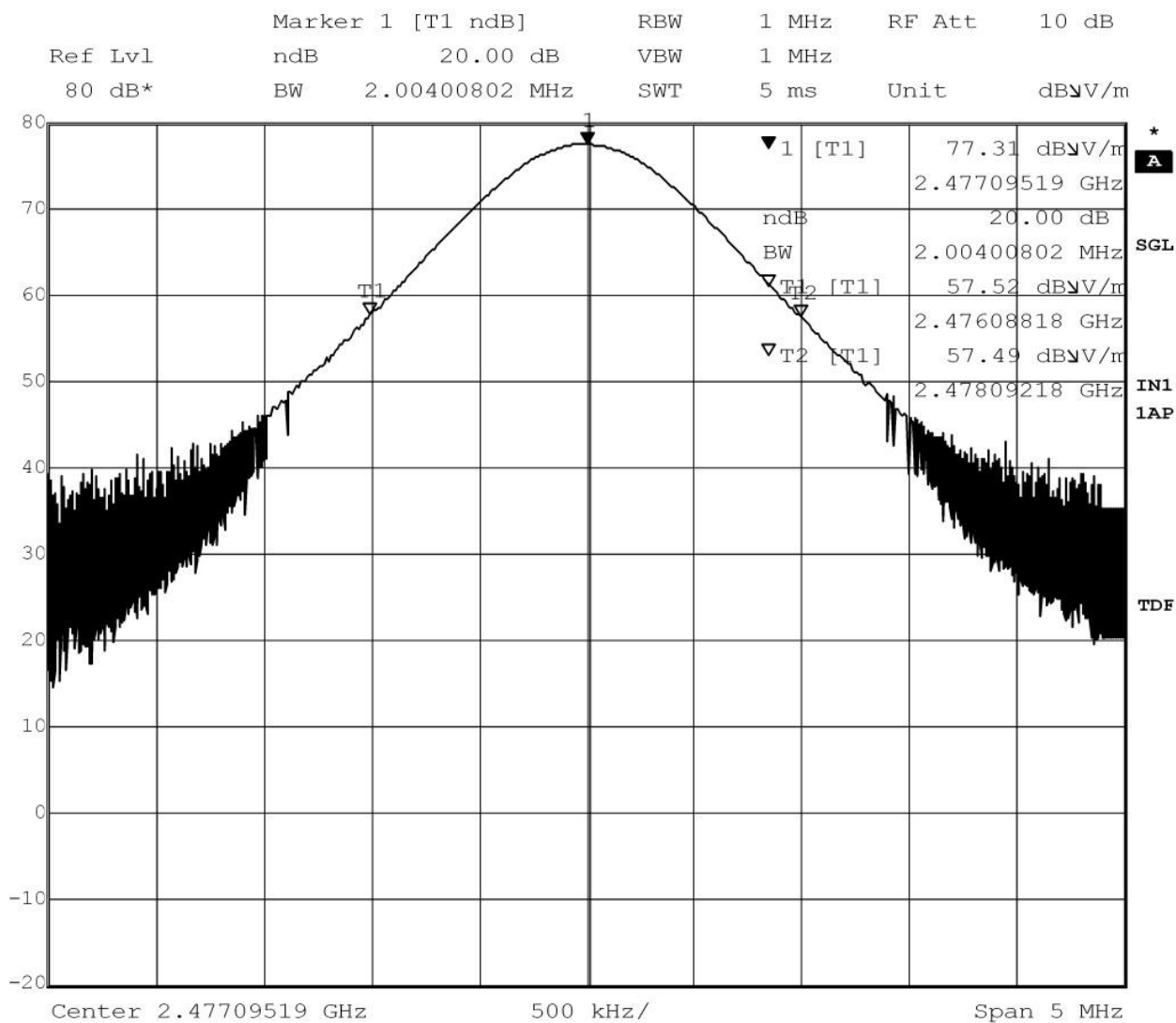


Guangdong Electronic & Electrical Products Inspection and Supervision Institute

FCC ID: BGRHJ580SA

Report No.:CGEL2009W0222

Test Result of 20dB Bandwidth of CH3: 2479MHz



Date: 9.SEP.2008 16:28:43

*****End of Test Report*****