



No. 1 Workshop, M-10, Middle section, Science & Technology Park,
Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: sgs_internet_operations@sgs.com

Report No.: SZEMO10060327301
Page: 1 of 41

FCC REPORT

Application No: SZEMO100603273RF
Applicant: Graco Children's Products Inc
Product Name: Video Baby Monitor
Operation Frequency: 2410MHz to 2470MHz
FCC ID: M6YPD141481
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt: 2010-06-03
Date of Test: 2010-06-03 to 2010-06-28
Date of Issue: 2010-09-10

Test Result :	PASS *
----------------------	---------------

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang
Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



2 Contents

	Page
.....	1
2 CONTENTS	2
3 TEST SUMMARY	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 TEST ENVIRONMENT AND MODE	5
4.4 TEST FACILITY	6
4.5 TEST LOCATION	6
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	6
4.7 TEST INSTRUMENTS LIST	7
5 TEST RESULTS AND MEASUREMENT DATA	9
5.1 ANTENNA REQUIREMENT:	9
5.2 CONDUCTED EMISSIONS	10
5.3 CONDUCTED PEAK OUTPUT POWER	13
5.4 6dB OCCUPY BANDWIDTH	16
5.5 POWER SPECTRAL DENSITY	19
5.6 BAND EDGE.....	22
5.7 RF ANTENNA CONDUCTED SPURIOUS EMISSIONS.....	24
5.8 RADIATED EMISSION.....	28
5.8.1 <i>Radiated emission below 1GHz</i>	30
5.8.2 <i>Transmitter emission above 1GHz</i>	31
5.8.3 <i>Band Edge and Restricted band (Radiated measurement)</i>	34-41

3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Passed
AC Power Line Conducted Emission	15.207	Passed
Conducted Peak Output Power	15.247 (b)(3)	Passed
6dB Occupied Bandwidth	15.247 (a)(2)	Passed
Power Spectral Density	15.247 (e)	Passed
Radiated Emission	15.205/15.209	Passed
Band Edge	15.247(d)	Passed

Remark: Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

4 General Information

4.1 Client Information

Applicant:	Graco Children's Products Inc
Manufacturer:	Graco Children's Products Inc
Address of Applicant:	150 Oaklands Blvd. Exton Pennsylvania 19341, United States
Address of Manufacturer:	150 Oaklands Blvd. Exton Pennsylvania 19341, United States

4.2 General Description of E.U.T.

Product Name:	Video Baby Monitor
Trade Name:	N/A
Item No.:	PD141481
Operation Frequency:	2410MHz-2470MHz
Channel numbers:	13
Channel separation:	5MHz
Modulation type:	DSSS
Antenna Type:	Integral
Antenna gain:	2.5dBi
Power supply:	DC4.5V(3*1.5V"AA" Size Batteries)
Adapter:	Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0 V 1000mA

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410MHz	4	2425MHz	7	2440MHz	10	2455MHz
2	2415MHz	5	2430MHz	8	2445MHz	11	2460MHz
3	2420MHz	6	2435MHz	9	2450MHz	12	2465MHz
13	2470MHz						

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2410MHz
The middle channel	2440MHz
The Highest channel	2470MHz

4.3 Test environment and mode

Test Environment:

Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar

Test mode:

Normal operation mode:	Keep EUT in the charging and communicating mode
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

All of test equipment as follows have calibrated and accord with standard.

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	17-06-2010	16-06-2011
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	05-11-2009	05-11-2010
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	05-11-2009	05-11-2010
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	10-11-2009	10-11-2010
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	10-11-2009	10-11-2010
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	02-06-2010	01-06-2011
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	18-12-2009	17-12-2010
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	04-06-2010	03-06-2011
11	Band filter	Amindeon	82346	SEL0094	02-06-2010	01-06-2011

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	02-06-2010	01-06-2011
3	LISN	Schwarzbeck	NNBM 8125	SEL0119	28-07-2009	28-07-2010
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	02-06-2010	01-06-2011
5	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	18-06-2011

RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	22-10-2009	21-10-2010
2	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011

5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

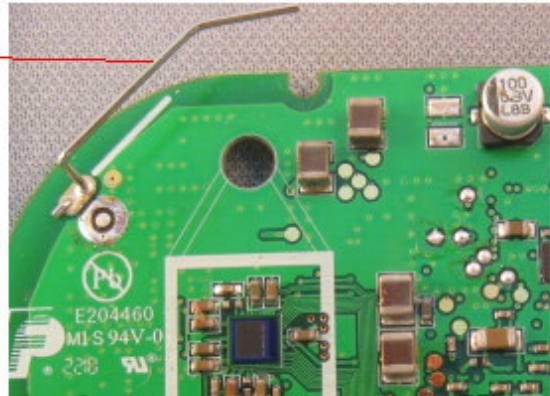
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

RF Antenna



5.2 Conducted Emissions

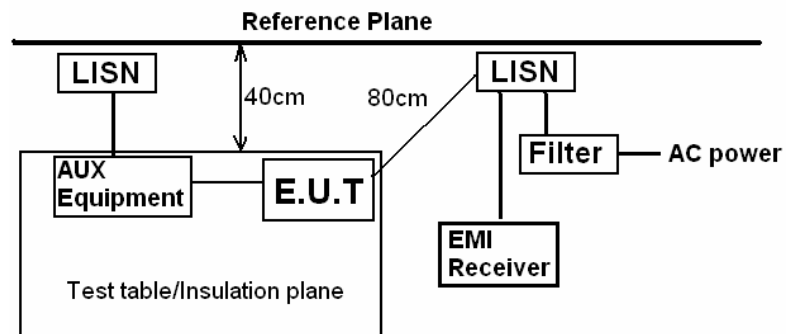
Test Requirement: FCC Part15 C Section 15.207
 Test Method: ANSI C63.4: 2003
 Test Frequency Range: 150KHz to 30MHz
 Class / Severity: Class B
 Limit:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test procedure The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provide a 50ohm/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. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. 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: 2003 on conducted measurement.

Test setup:



Remark:
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

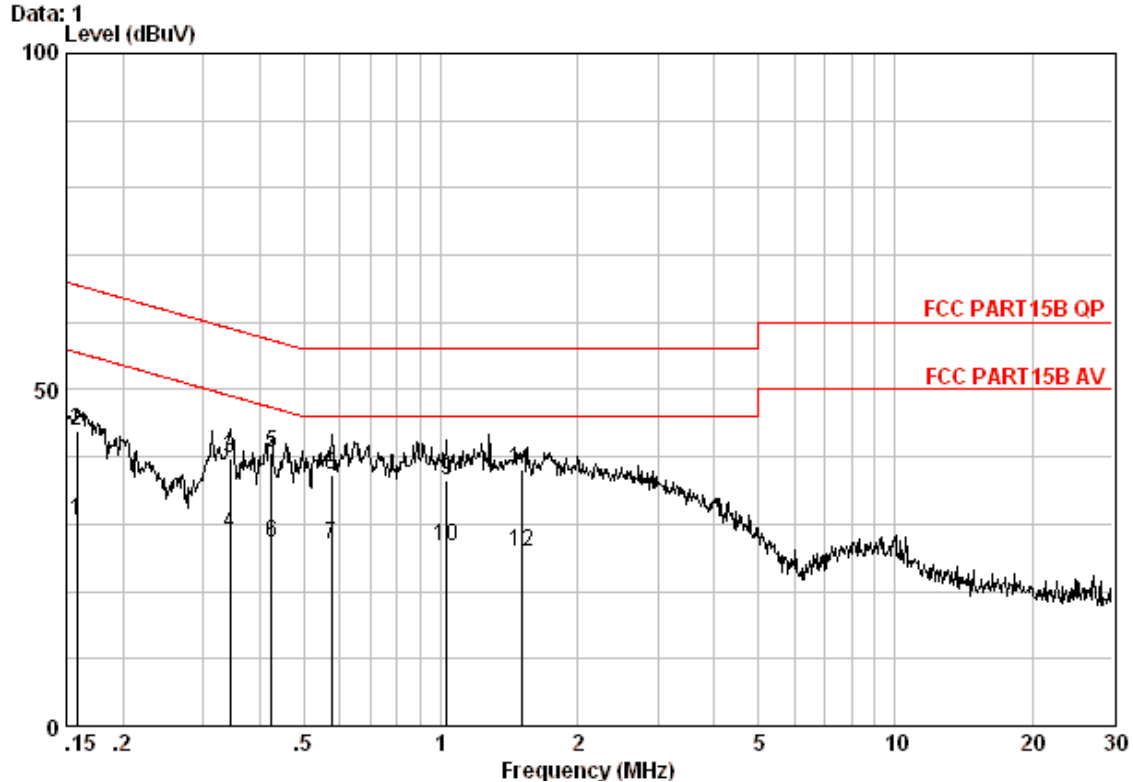
Test Instruments: Refer to section 4.7 for details
 Test mode: Normal operation mode
 Test results: Passed

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15800	0.04	-0.05	30.40	30.39	55.57	-25.18	Average
2	0.15800	0.04	-0.05	43.90	43.89	65.57	-21.68	QP
3	0.34400	0.05	-0.04	39.70	39.71	59.11	-19.40	QP
4	0.34400	0.05	-0.04	28.50	28.51	49.11	-20.60	Average
5 @	0.42500	0.06	-0.04	40.70	40.71	57.35	-16.64	QP
6	0.42500	0.06	-0.04	27.20	27.21	47.35	-20.14	Average
7	0.57600	0.06	-0.04	26.90	26.92	46.00	-19.08	Average
8	0.57600	0.06	-0.04	37.40	37.42	56.00	-18.58	QP
9	1.030	0.08	-0.05	36.50	36.53	56.00	-19.47	QP
10	1.030	0.08	-0.05	26.80	26.83	46.00	-19.17	Average
11	1.510	0.10	-0.06	38.20	38.25	56.00	-17.75	QP
12	1.510	0.10	-0.06	25.90	25.95	46.00	-20.05	Average

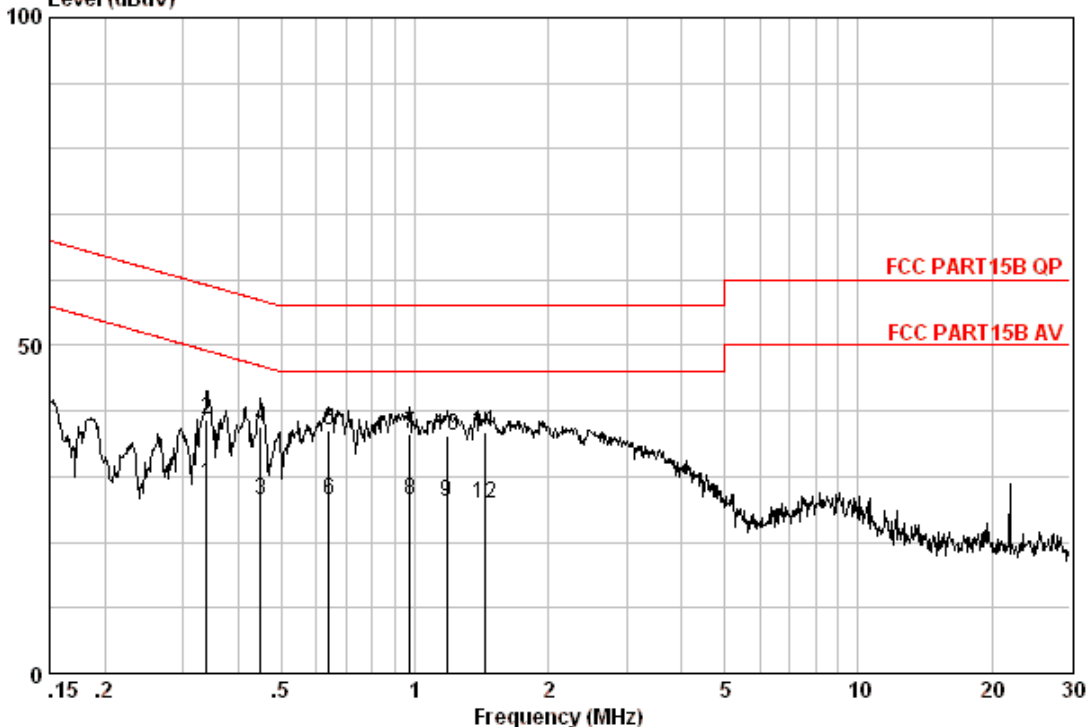
Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Neutral Line:

Data: 2
Level (dBuV)



	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.33900	0.05	-0.04	28.80	28.81	49.23	-20.41	Average
2	0.33900	0.05	-0.04	38.70	38.71	59.23	-20.51	QP
3	0.44900	0.06	-0.04	26.50	26.52	46.89	-20.38	Average
4	0.44900	0.06	-0.04	37.60	37.62	56.89	-19.28	QP
5	0.64000	0.06	-0.04	37.10	37.12	56.00	-18.88	QP
6	0.64000	0.06	-0.04	26.30	26.32	46.00	-19.68	Average
7	0.97300	0.08	-0.04	36.40	36.43	56.00	-19.57	QP
8	0.97300	0.08	-0.04	26.40	26.43	46.00	-19.57	Average
9	1.178	0.09	-0.05	26.10	26.14	46.00	-19.86	Average
10	1.178	0.09	-0.05	36.10	36.14	56.00	-19.86	QP
11	1.440	0.10	-0.05	36.80	36.85	56.00	-19.15	QP
12	1.440	0.10	-0.05	25.90	25.95	46.00	-20.05	Average

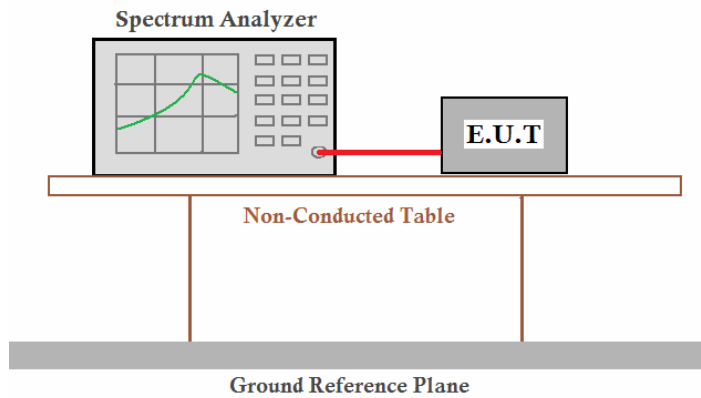
Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	
Test results:	

FCC Part15 C Section 15.247 (b)(3)
ANSI C63.4:2003 and KDB558074
30dBm



Remark:
Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.

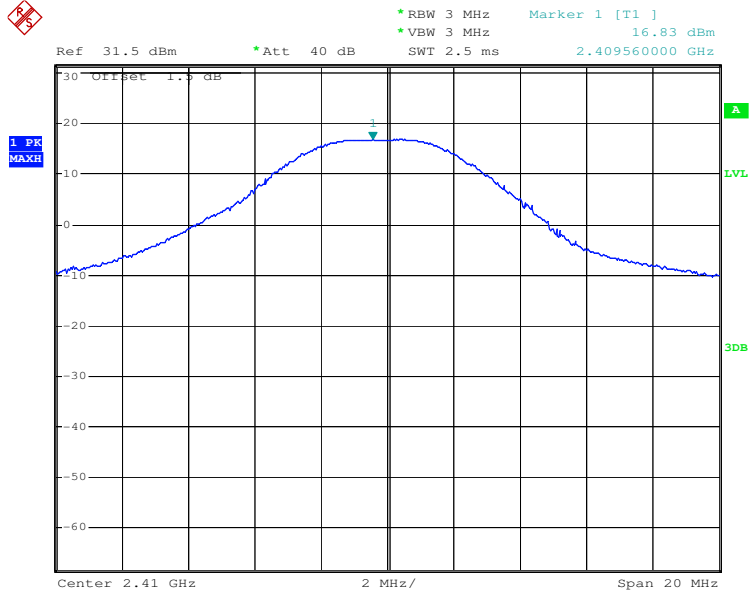
Refer to section 4.7 for details
Passed

Measurement Data

Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	16.83	30.00	Pass
Middle	16.00	30.00	Pass
Highest	15.32	30.00	Pass

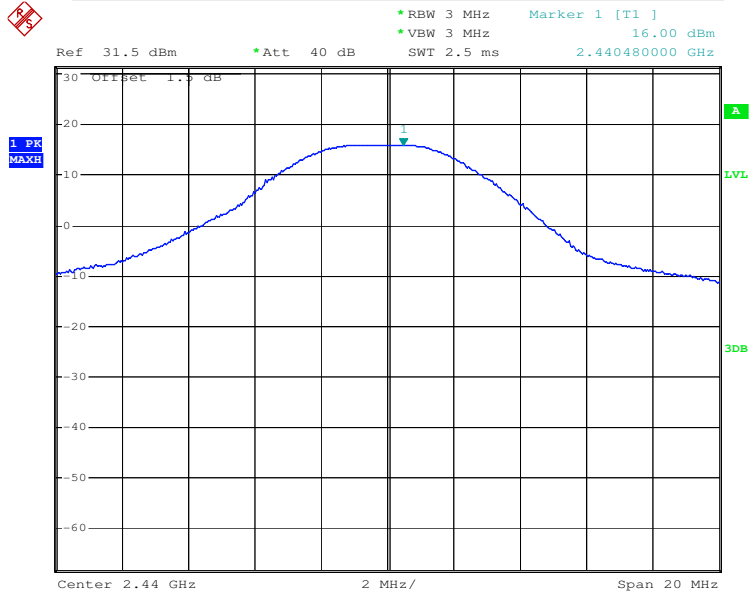
Test plot as follows:

Test channel: Lowest



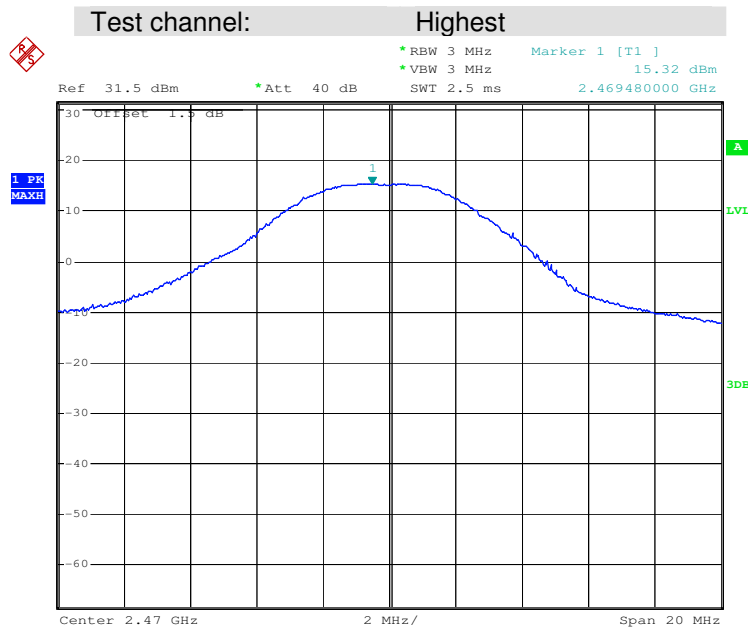
Date: 27.JUN.2010 13:52:26

Test channel: Middle



Date: 27.JUN.2010 13:43:07

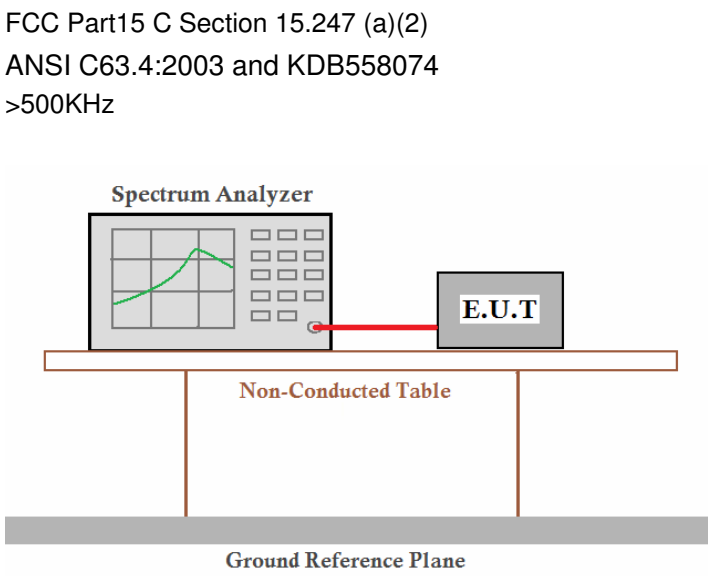
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Date: 27.JUN.2010 13:47:31

5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

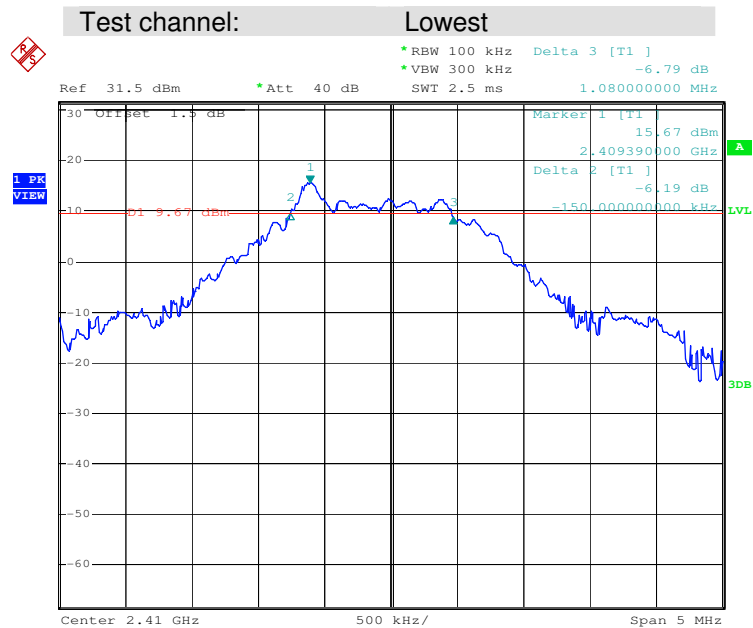


Measurement Data

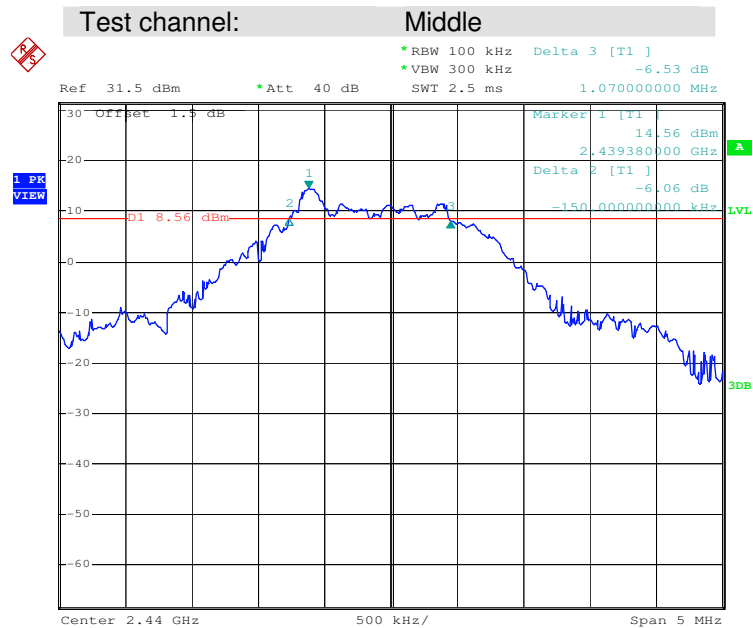
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	1.23	>500	Pass
Middle	1.22	>500	Pass
Highest	1.22	>500	Pass

Test plot as follows:

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

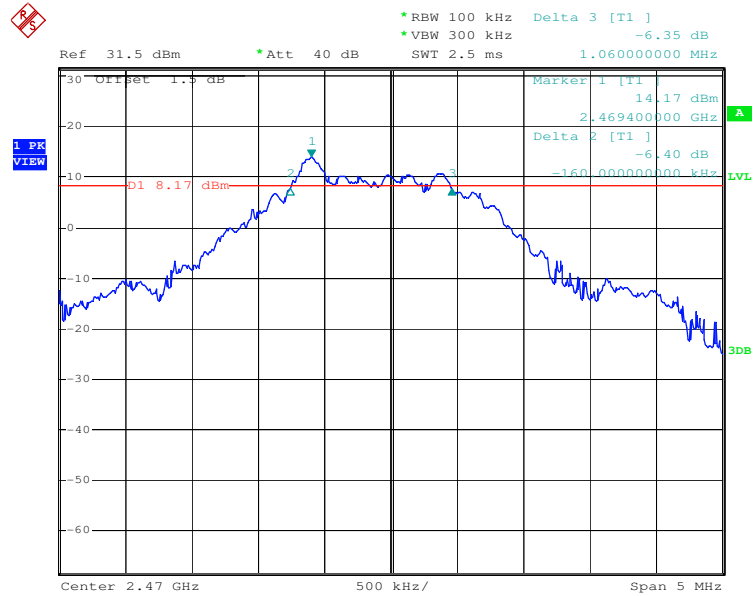


Date: 27.JUN.2010 13:53:58



Date: 27.JUN.2010 14:19:45

Test channel: Highest

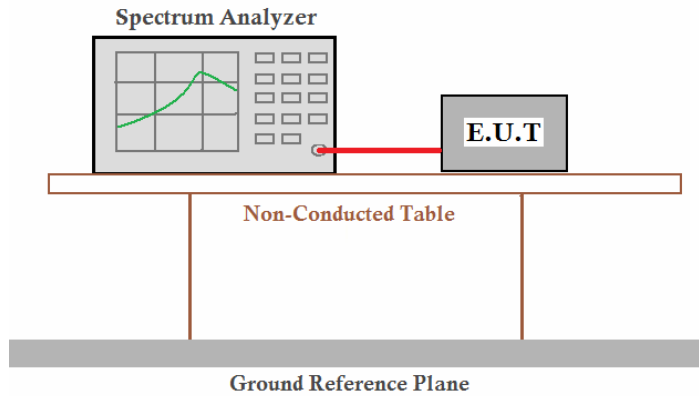


Date: 27.JUN.2010 14:50:15

5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	<8dBm
Test setup:	
Test Instruments:	
Test results:	

FCC Part15 C Section 15.247 (e)
ANSI C63.4:2003 and KDB558074
<8dBm



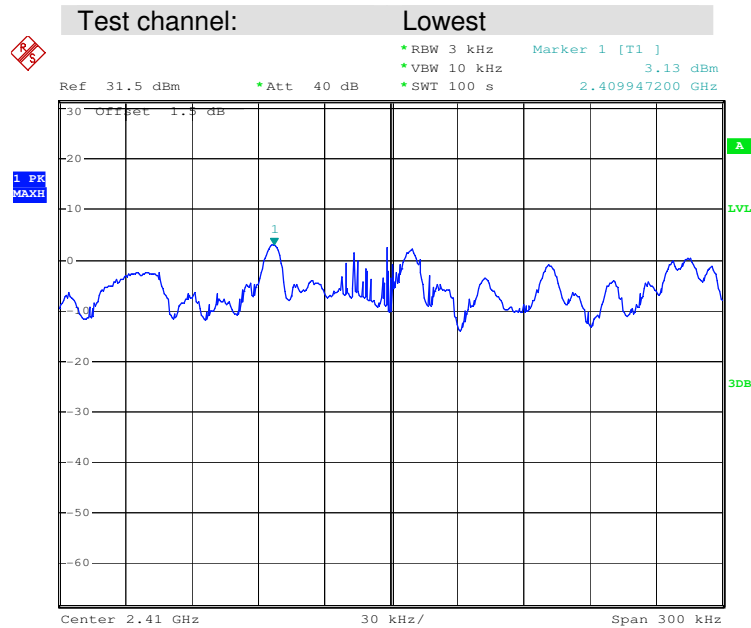
Remark:
Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.

Refer to section 4.7 for details
Passed

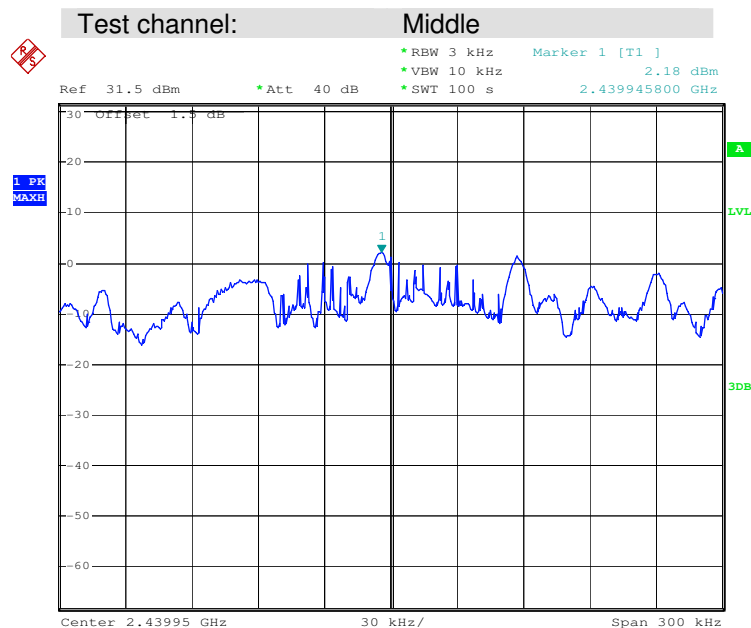
Measurement Data

Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	3.13	<8.00	Pass
Middle	2.18	<8.00	Pass
Highest	1.13	<8.00	Pass

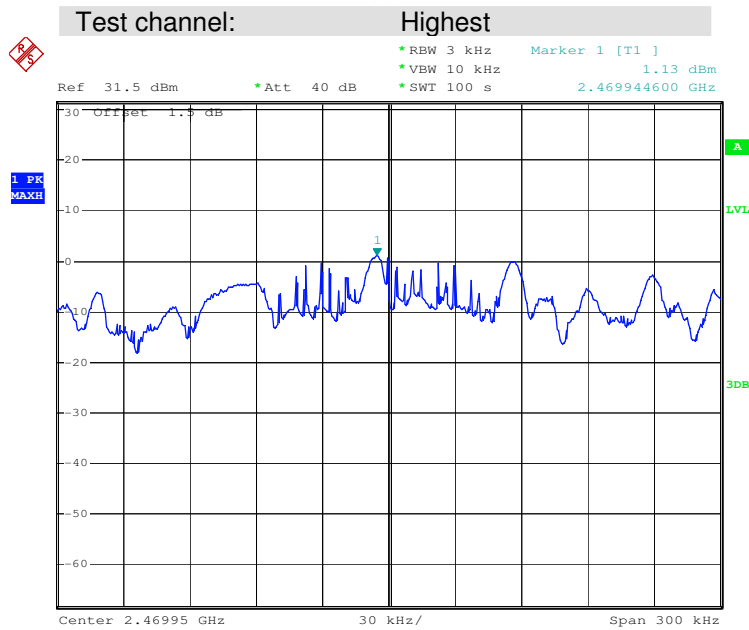
Test plot as follows:



Date: 27.JUN.2010 14:02:48



Date: 27.JUN.2010 14:27:01



Date: 27.JUN.2010 14:55:01

5.6 Band Edge

Test Requirement:

FCC Part15 C Section 15.247 (d)

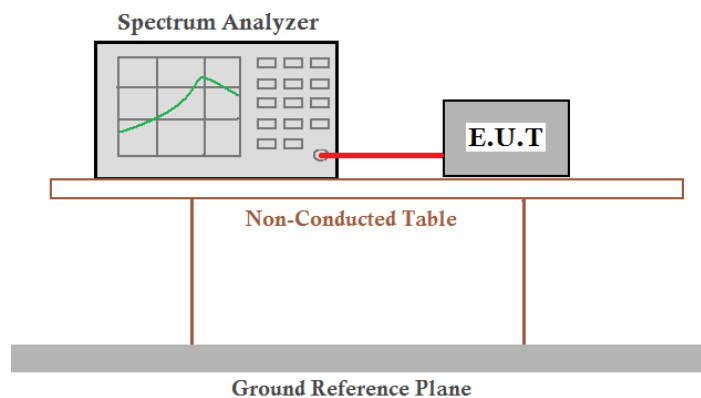
Test Method:

ANSI C63.4:2003 and KDB558074

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test setup:



Remark:

Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.

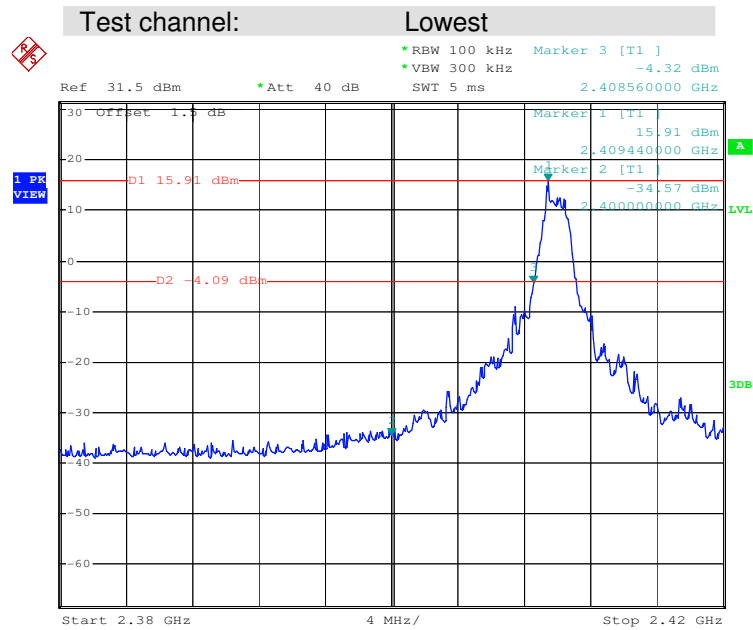
Test Instruments:

Refer to section 4.7 for details

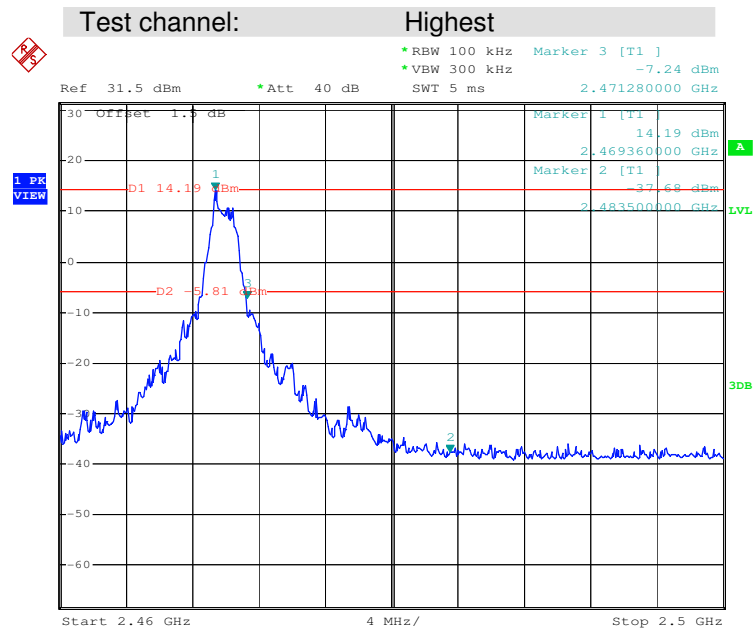
Test results:

Passed

Test plot as follows:

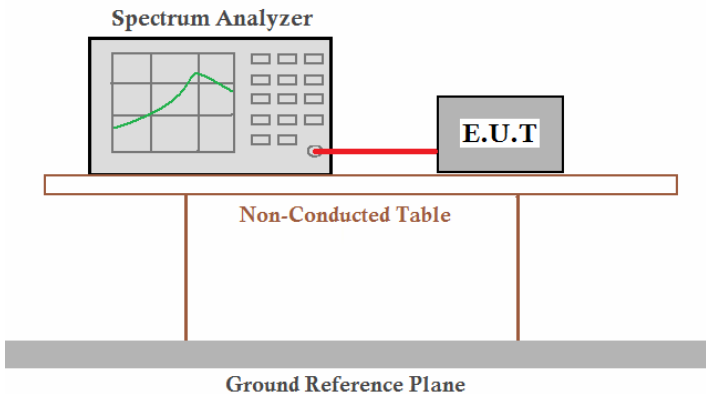


Date: 27.JUN.2010 13:56:58



Date: 27.JUN.2010 14:48:45

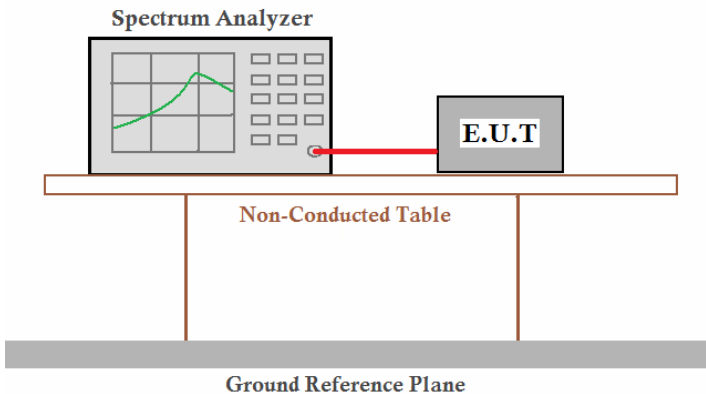
5.7 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

FCC Part15 C Section 15.247 (d)

ANSI C63.4:2003 and KDB558074

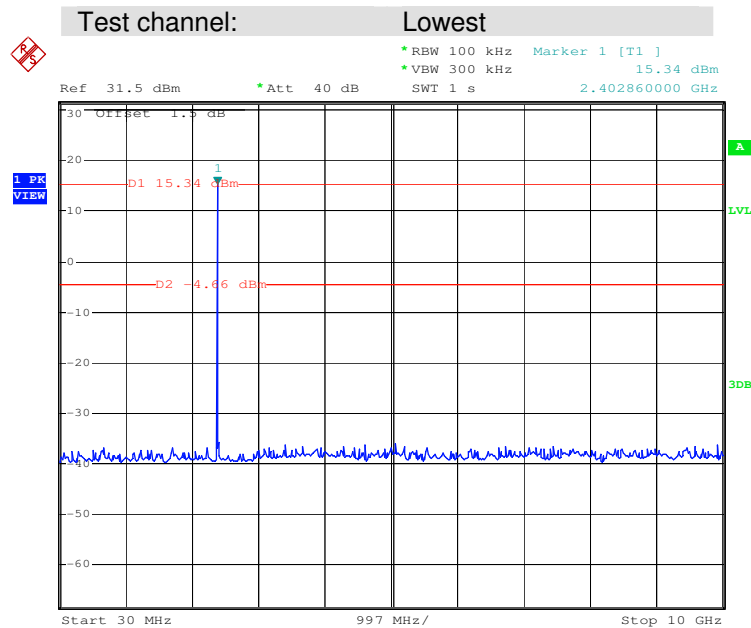
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.



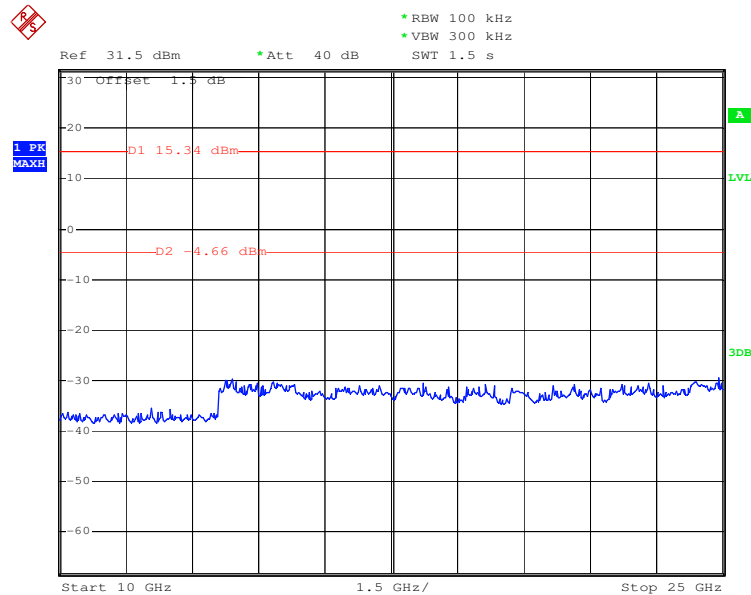
Remark:
Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.

Test plot as follows:

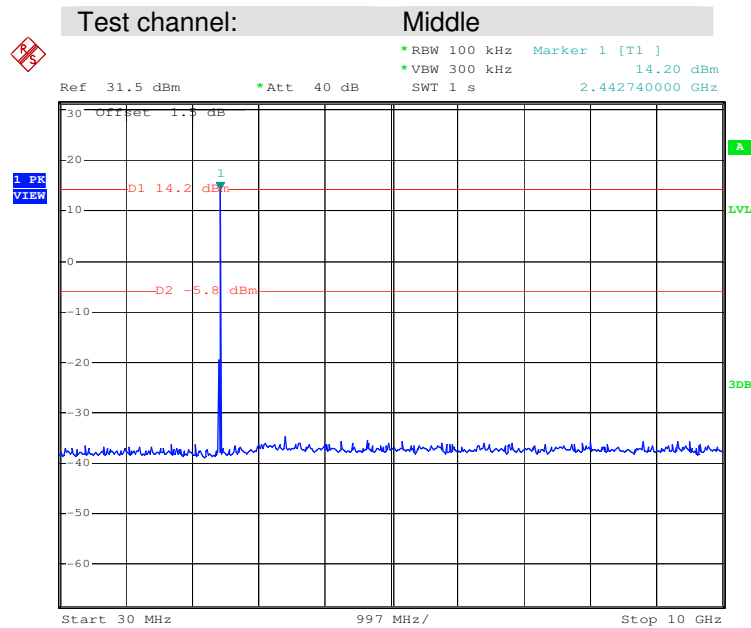
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



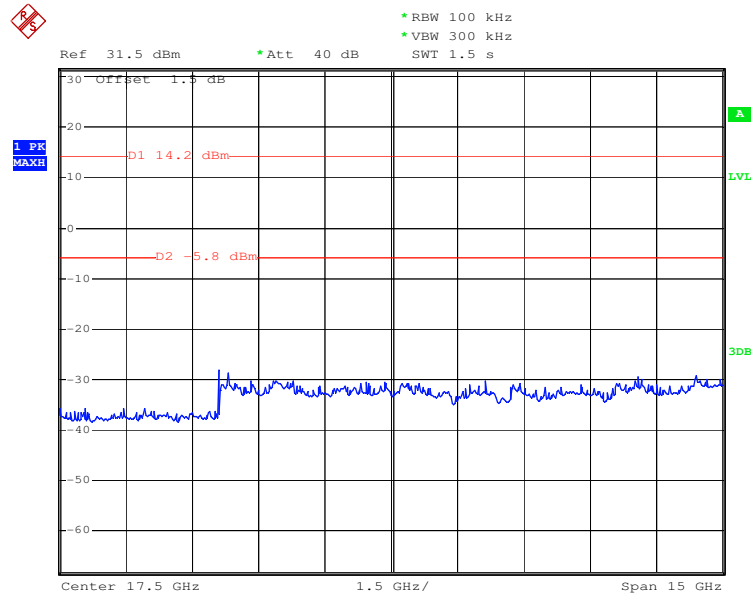
Date: 27.JUN.2010 13:57:58



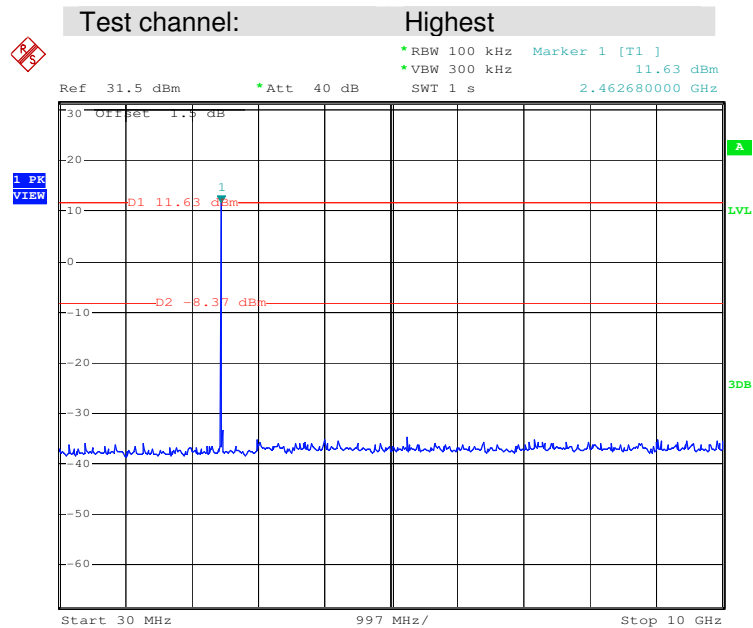
Date: 27.JUN.2010 13:58:18



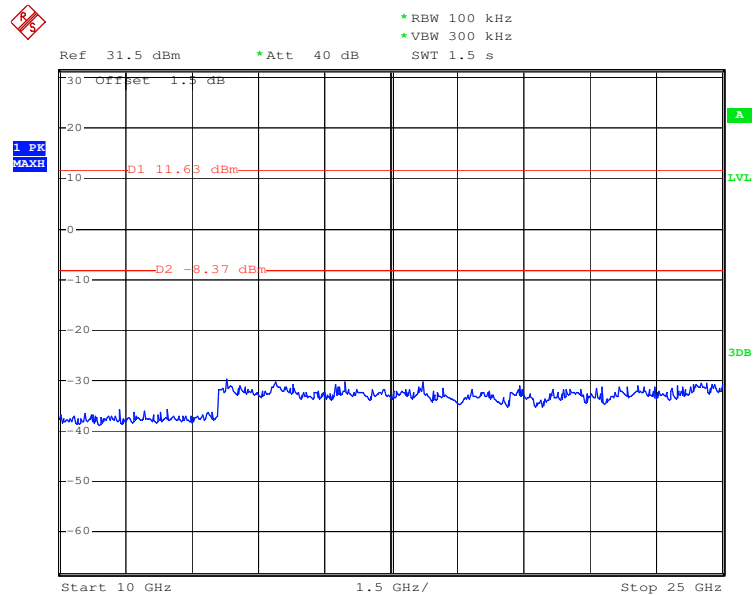
Date: 27.JUN.2010 14:21:45



Date: 27.JUN.2010 14:22:12



Date: 27.JUN.2010 14:46:25



Date: 27.JUN.2010 14:46:42

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

5.8 Radiated Emission

Test Requirement:
Test Method:
Test Frequency Range:
Test site:
Receiver setup:

Limit:

Test Procedure:

Test Instruments:
Test mode:

Test results:

FCC Part15 C Section 15.209 and 15.205

ANSI C63.4: 2003

30MHz to 25GHz

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Refer to section 4.7 for details

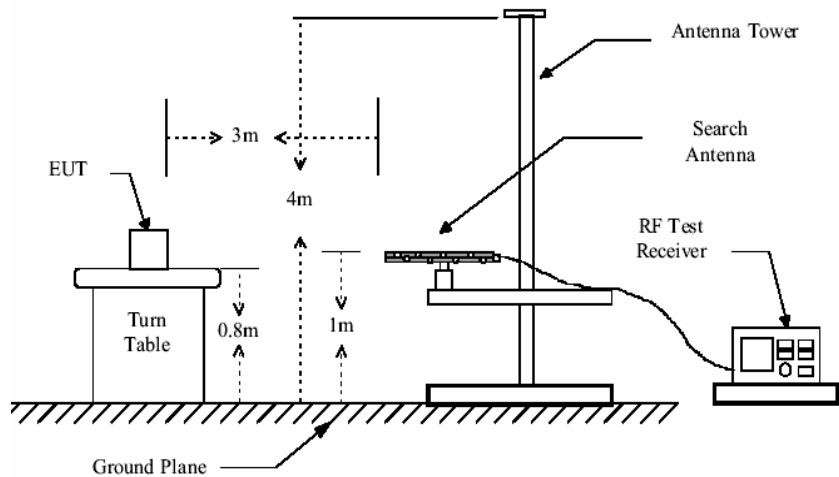
Keep the EUT in transmitting mode with modulation

Test the EUT in normal operation mode

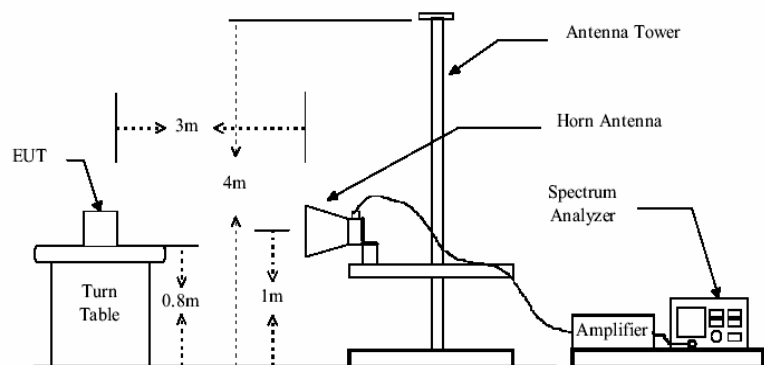
Passed

Test setup:

Below 1GHz



Above 1GHz



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

5.8.1 Radiated emission below 1GHz

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
47.460	0.76	8.72	27.50	47.70	29.68	40.00	-10.32	Vertical
70.740	0.83	6.97	27.45	46.00	26.35	40.00	-13.65	Vertical
141.550	1.30	8.24	27.12	43.22	25.64	43.50	-17.86	Vertical
385.990	2.16	16.13	27.10	40.50	31.69	46.00	-14.31	Vertical
447.100	2.40	16.84	27.44	44.35	36.15	46.00	-9.85	Vertical
638.190	2.78	20.55	27.33	41.30	37.30	46.00	-8.70	Vertical
70.740	0.83	6.97	27.45	38.22	18.57	40.00	-21.43	Horizontal
141.550	1.30	8.24	27.12	44.39	26.81	43.50	-16.69	Horizontal
272.500	1.78	12.76	26.58	42.92	30.88	46.00	-15.12	Horizontal
378.230	2.14	16.03	27.04	46.36	37.49	46.00	-8.51	Horizontal
638.190	2.78	20.55	27.33	39.13	35.13	46.00	-10.87	Horizontal
812.790	3.26	22.25	26.94	34.70	33.27	46.00	-12.73	Horizontal

Note: The data above is tested with QP detector mode.

5.8.2 Transmitter emission above 1GHz

Test channel: Lowest Remark: Peak

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1812.00	5.63	28.03	38.86	41.74	36.54	74.00	-37.46	Vertical
2330.00	6.05	29.79	39.67	42.70	38.87	74.00	-35.13	Vertical
4836.00	10.34	34.28	41.43	40.31	43.50	74.00	-30.50	Vertical
7230.00	13.30	37.24	40.88	35.23	44.89	74.00	-29.11	Vertical
9638.00	13.49	37.99	37.64	29.96	43.80	74.00	-30.20	Vertical
12046.00	16.77	39.12	39.13	27.62	44.38	74.00	-29.62	Vertical
1630.00	5.11	27.52	39.15	43.38	36.86	74.00	-37.14	Horizontal
2316.00	6.00	29.74	39.83	45.48	41.39	74.00	-32.61	Horizontal
4822.00	9.21	34.26	41.27	38.95	41.15	74.00	-32.85	Horizontal
7244.00	13.22	37.26	40.78	32.41	42.11	74.00	-31.89	Horizontal
9638.00	13.49	37.99	37.64	29.98	43.82	74.00	-30.18	Horizontal
12074.00	17.08	39.14	39.16	27.07	44.13	74.00	-29.87	Horizontal

Test channel: Lowest Remark: Average

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
1812.00	5.63	28.03	38.86	32.50	27.30	54.00	-26.70	Vertical
2330.00	6.05	29.79	39.67	35.52	31.69	54.00	-22.31	Vertical
4836.00	10.34	34.28	41.43	34.81	38.00	54.00	-16.00	Vertical
7230.00	13.30	37.24	40.88	26.80	36.46	54.00	-17.54	Vertical
9638.00	13.49	37.99	37.64	25.41	39.25	54.00	-14.75	Vertical
12046.00	16.77	39.12	39.13	22.30	39.06	54.00	-14.94	Vertical
1630.00	5.11	27.52	39.15	32.82	26.30	54.00	-27.70	Horizontal
2316.00	6.00	29.74	39.83	37.51	33.42	54.00	-20.58	Horizontal
4822.00	9.21	34.26	41.27	32.70	34.90	54.00	-19.10	Horizontal
7244.00	13.22	37.26	40.78	25.80	35.50	54.00	-18.50	Horizontal
9638.00	13.49	37.99	37.64	24.11	37.95	54.00	-16.05	Horizontal
12074.00	17.08	39.14	39.16	22.21	39.27	54.00	-14.73	Horizontal

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Test channel: Middle Remark: Peak

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1826.00	5.61	28.06	38.99	41.48	36.16	74.00	-37.84	Vertical
3534.00	7.74	32.58	40.01	40.42	40.73	74.00	-33.27	Vertical
4864.00	9.68	34.32	40.35	39.62	43.27	74.00	-30.73	Vertical
7314.00	12.99	37.30	40.50	35.23	45.02	74.00	-28.98	Vertical
9750.00	13.89	38.03	37.94	32.32	46.30	74.00	-27.70	Vertical
12186.00	18.03	39.21	39.27	28.83	46.80	74.00	-27.20	Vertical
1672.00	5.07	27.65	39.66	42.28	35.34	74.00	-38.66	Horizontal
2344.00	6.11	29.84	39.51	43.92	40.36	74.00	-33.64	Horizontal
4864.00	9.68	34.32	40.35	39.54	43.19	74.00	-30.81	Horizontal
7356.00	12.84	37.32	40.30	33.26	43.12	74.00	-30.88	Horizontal
9750.00	13.89	38.03	37.94	32.09	46.07	74.00	-27.93	Horizontal
12228.00	17.95	39.23	39.30	26.80	44.68	74.00	-29.32	Horizontal

Test channel: Middle Remark: Average

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
1826.00	5.61	28.06	38.99	37.58	32.26	54.00	-21.74	Vertical
3534.00	7.74	32.58	40.01	34.28	34.59	54.00	-19.41	Vertical
4864.00	9.68	34.32	40.35	34.20	37.85	54.00	-16.15	Vertical
7314.00	12.99	37.30	40.50	28.50	38.29	54.00	-15.71	Vertical
9750.00	13.89	38.03	37.94	28.50	42.48	54.00	-11.52	Vertical
12186.00	18.03	39.21	39.27	24.30	42.27	54.00	-11.73	Vertical
1672.00	5.07	27.65	39.66	36.58	29.64	54.00	-24.36	Horizontal
2344.00	6.11	29.84	39.51	37.52	33.96	54.00	-20.04	Horizontal
4864.00	9.68	34.32	40.35	33.35	37.00	54.00	-17.00	Horizontal
7356.00	12.84	37.32	40.30	27.51	37.37	54.00	-16.63	Horizontal
9750.00	13.89	38.03	37.94	24.40	38.38	54.00	-15.62	Horizontal
12228.00	17.95	39.23	39.30	20.50	38.38	54.00	-15.62	Horizontal



Test channel: Highest Remark: Peak

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1504.00	4.76	27.14	39.76	41.94	34.08	74.00	-39.92	Vertical
3674.00	7.71	32.74	39.70	41.61	42.36	74.00	-31.64	Vertical
4962.00	10.43	34.45	41.03	40.89	44.74	74.00	-29.26	Vertical
7426.00	12.72	37.37	40.01	34.74	44.82	74.00	-29.18	Vertical
9862.00	14.17	38.06	37.93	28.80	43.10	74.00	-30.90	Vertical
12368.00	17.63	39.32	39.45	27.14	44.64	74.00	-29.36	Vertical
1630.00	5.11	27.52	39.15	36.88	30.36	74.00	-43.64	Horizontal
3660.00	7.82	32.73	39.89	41.47	42.13	74.00	-31.87	Horizontal
4962.00	10.43	34.45	41.03	37.32	41.17	74.00	-32.83	Horizontal
7426.00	12.72	37.37	40.01	32.57	42.65	74.00	-31.35	Horizontal
9862.00	14.17	38.06	37.93	27.90	42.20	74.00	-31.80	Horizontal
12368.00	17.63	39.32	39.45	28.16	45.66	74.00	-28.34	Horizontal

Test channel: Highest Remark: Average

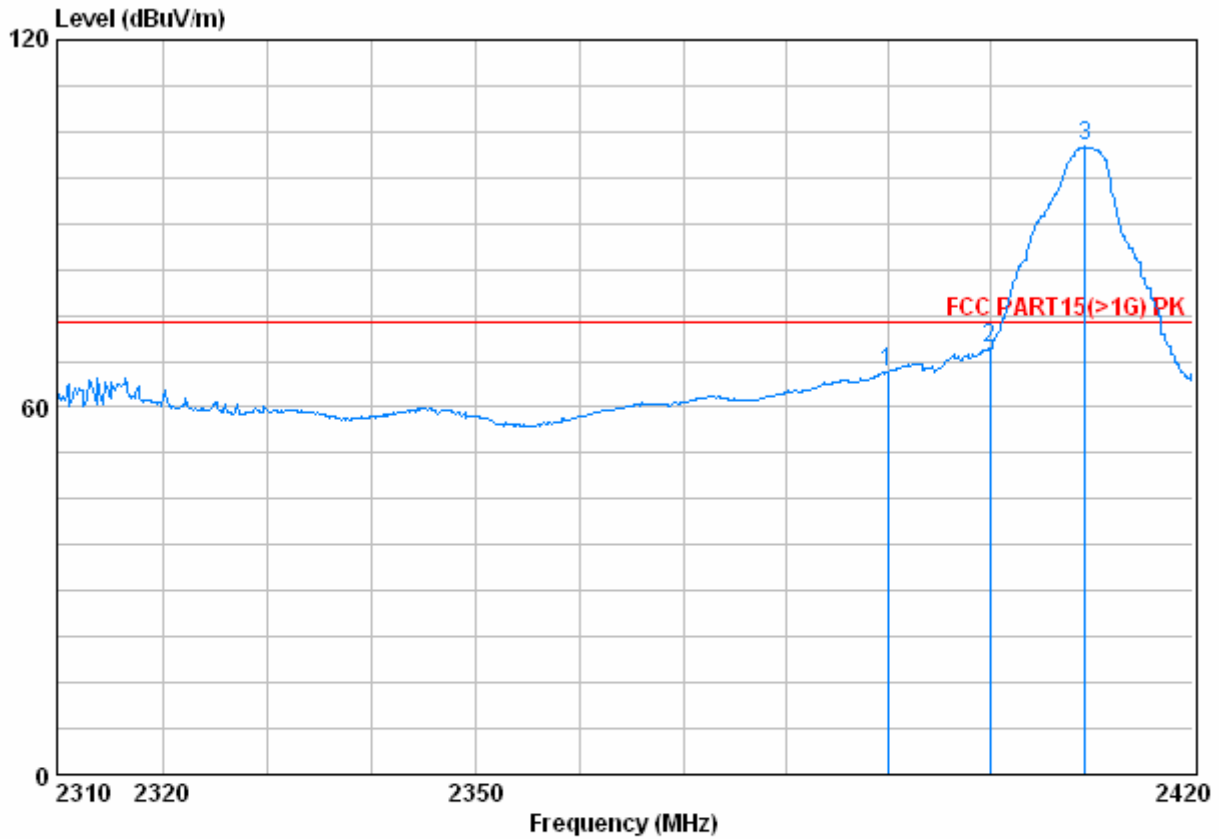
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
1504.00	4.76	27.14	39.76	32.80	24.94	54.00	-29.06	Vertical
3674.00	7.71	32.74	39.70	33.30	34.05	54.00	-19.95	Vertical
4962.00	10.43	34.45	41.03	31.35	35.20	54.00	-18.80	Vertical
7426.00	12.72	37.37	40.01	27.50	37.58	54.00	-16.42	Vertical
9862.00	14.17	38.06	37.93	24.39	38.69	54.00	-15.31	Vertical
12368.00	17.63	39.32	39.45	23.24	40.74	54.00	-13.26	Vertical
1630.00	5.11	27.52	39.15	32.23	25.71	54.00	-28.29	Horizontal
3660.00	7.82	32.73	39.89	33.42	34.08	54.00	-19.92	Horizontal
4962.00	10.43	34.45	41.03	30.74	34.59	54.00	-19.41	Horizontal
7426.00	12.72	37.37	40.01	27.25	37.33	54.00	-16.67	Horizontal
9862.00	14.17	38.06	37.93	22.19	36.49	54.00	-17.51	Horizontal
12368.00	17.63	39.32	39.45	21.31	38.81	54.00	-15.19	Horizontal

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

5.8.3 Band Edge and Restricted band (Radiated measurement)

Test channel:	Lowest	Remark:	Peak
---------------	--------	---------	------

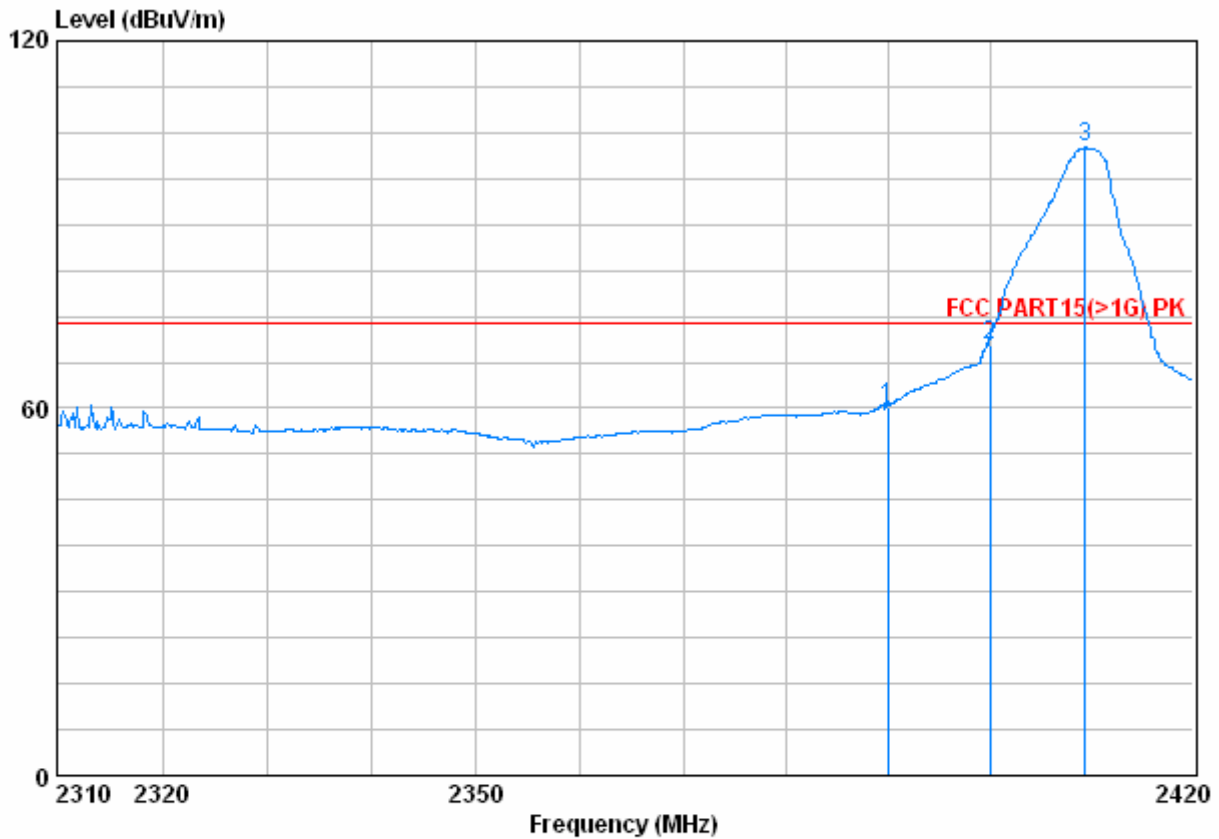
Vertical:



	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit Line	Over Limit		
	MHz	dB	dB/m	dB	dBuV/m	dB		
1	2390.000	6.28	29.98	39.03	68.55	65.79	74.00	-8.21
2	2400.000	6.34	30.03	38.87	72.13	69.63	74.00	-4.37
3 X	2409.330	6.25	30.05	38.83	105.04	102.52	74.00	28.52

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Horizontal:

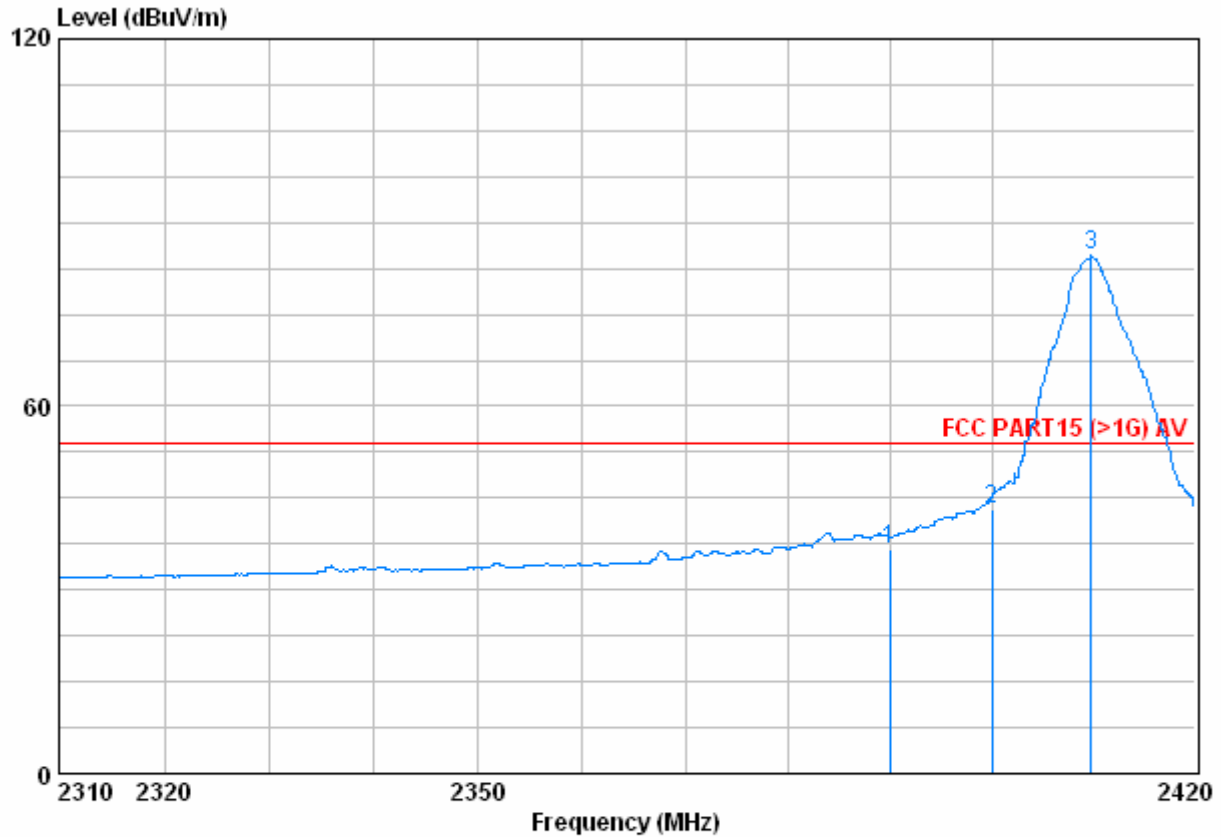


	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	63.07	60.30	74.00	-13.70
2	2400.000	6.34	30.03	38.87	72.95	70.45	74.00	-3.55
3 X	2409.330	6.25	30.05	38.83	105.06	102.53	74.00	28.53

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test channel:	Lowest	Remark:	Average
---------------	--------	---------	---------

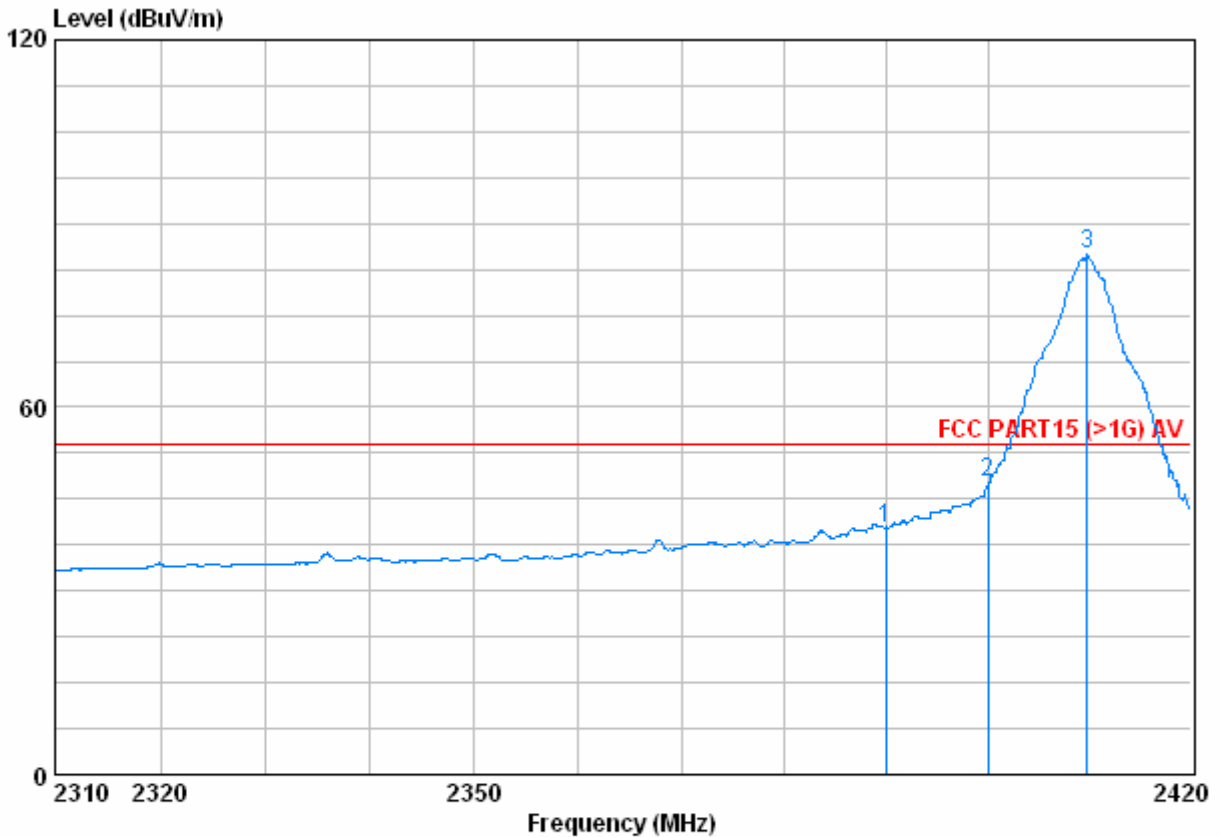
Vertical:



	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	6.28	29.98	39.03	39.36	36.60	54.00	-17.40
2	2400.000	6.34	30.03	38.87	45.70	43.20	54.00	-10.80
3	2409.770	6.25	30.05	38.83	87.08	84.55	54.00	30.55

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Horizontal:

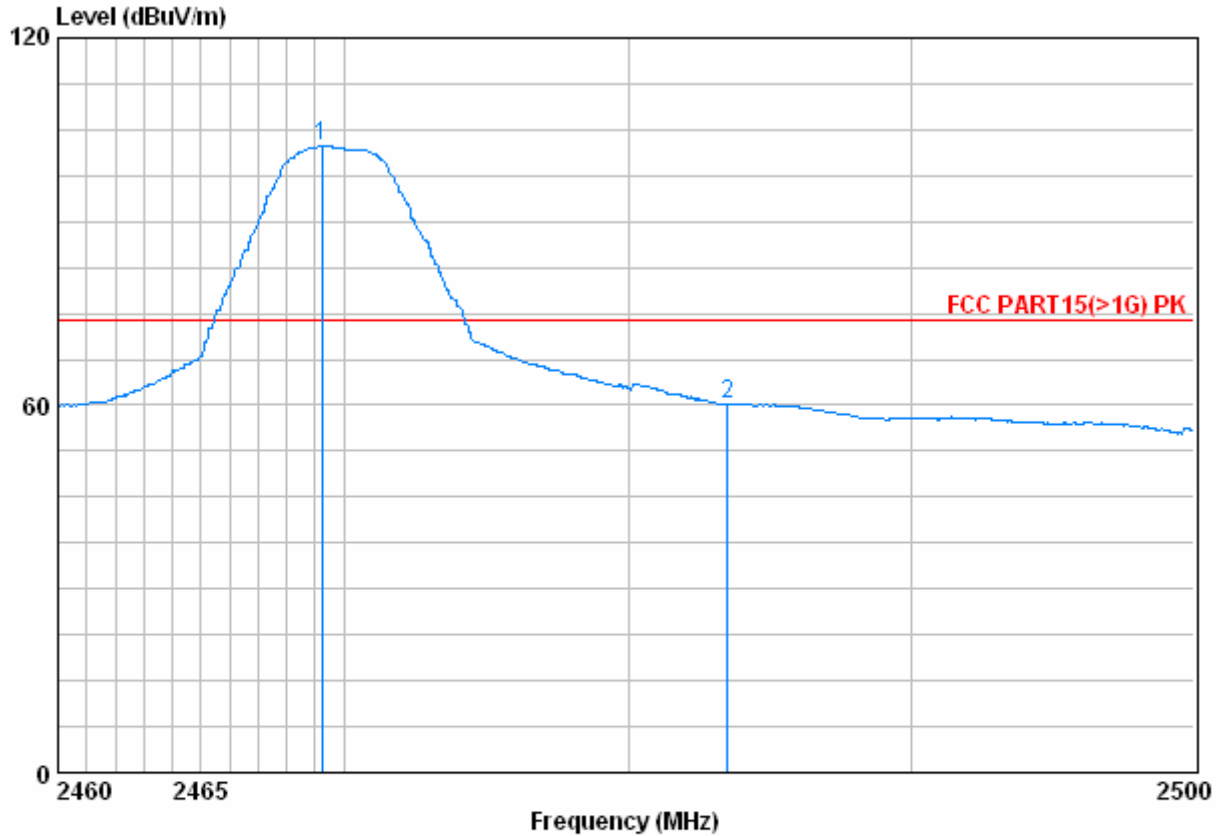


	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	43.10	54.00	-13.67
2	2400.000	6.34	30.03	38.87	50.09	54.00	-6.41
3	2409.770	6.25	30.05	38.83	87.58	54.00	31.05

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test channel:	Highest	Remark:	Peak
---------------	---------	---------	------

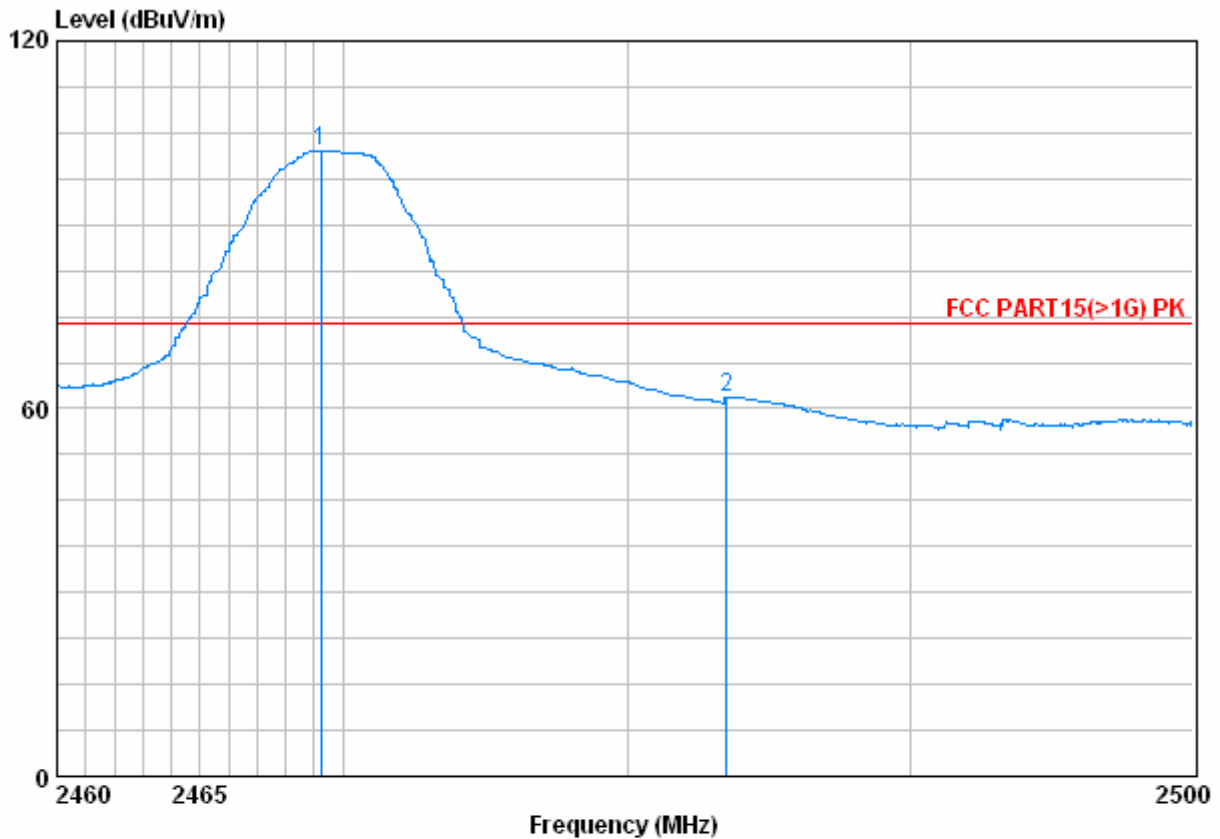
Vertical:



		CableAntenna	Preamp	Read	Limit	Over			
	Freq	Loss	Factor	Level	Line	Limit			
	MHz	dB	dB/m	dB	dBuV	dBuV/m			
1	X	2469.240	6.58	30.27	39.67	105.04	102.23	74.00	28.23
2		2483.500	6.22	30.32	39.53	63.13	60.14	74.00	-13.86

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Horizontal:



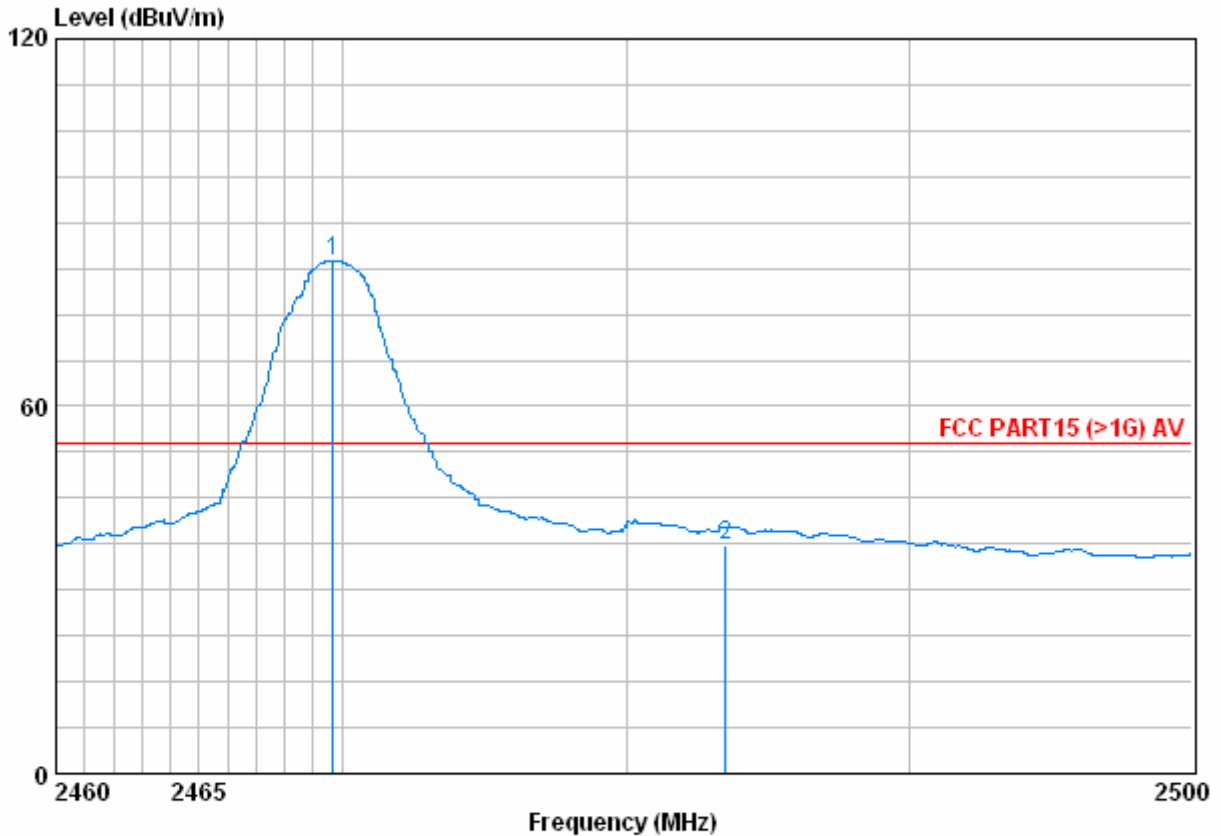
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2469.240	6.58	30.27	39.67	104.91	102.10	74.00	28.10
2	2483.500	6.22	30.32	39.53	64.90	61.91	74.00	-12.09

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Test channel:	Highest	Remark:	Average
---------------	---------	---------	---------

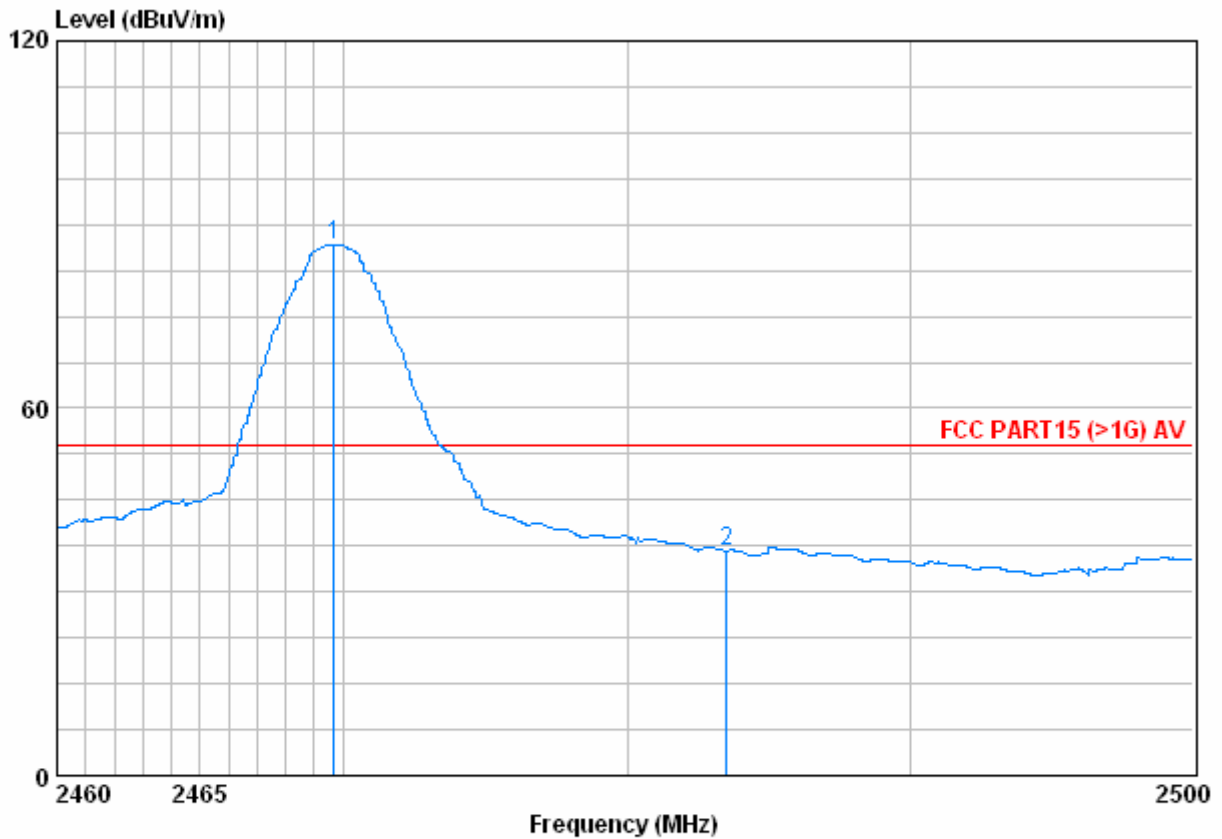
Vertical:



	CableAntenna	Preamp	Read	Limit	Over			
Freq	Loss	Factor	Level	Line	Limit			
MHz	dB	dB/m	dB	dBuV	dBuV/m			
1 @	2469.680	6.58	30.27	39.67	86.59	83.77	54.00	29.77
2	2483.500	6.22	30.32	39.53	40.22	37.23	54.00	-16.77

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Horizontal:



	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m
1	2469.680	6.58	30.27	39.67	89.61	86.79
2	2483.500	6.22	30.32	39.53	39.72	36.74

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."