



Most Technology Service Co., Ltd.
Tel:(86) 755-26825180 Fax:(86) 755-86170310
Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: Baby Monitor

FCC ID: M6YPD103078

MODEL NO. : PD103078

Applicant:

Graco Children's Products Inc.
150 Oaklands Boulevard Exton, PA19341 United States

Date Received: 11/06/2008

Date Tested: 11/05/2008

APPLICANT: Graco Children's Products Inc.
FCC ID: M6YPD103078

Cover Sheet



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FCC ID: M6YPD103078

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EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100492	Apr 05,2008	1 Year
LISN	ROHDE&SCHWARZ	ENV216	100093	Apr 05,2008	1Year
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101202	Apr 05,2008	1 Year
Spectrum Analyzer	ANRITSU	MS2651B	6200238316	Apr 05,2008	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Apr 05,2008	1 Year
Bilog Antenna	Sunol	JB3	A121206	Apr 05,2008	1 Year
Horn Antenna	EMCO	3115	640201028-06	Apr 05,2008	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Apr 05,2008	1 Year
Cable	Resenberger	N/A	NO.1	Apr 05,2008	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Apr 05,2008	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Apr 05,2008	1 Year
Single Phase Power Line Filter	Kikusui	LIN40MA-PC R-L	LM002352	Apr 05,2008	1Year
AC Power Source	Kikusui	AC40MA	LM003232	Apr 05,2008	1Year
Test analyzer	Kikusui	KHA1000	LM003720	Apr 05,2008	1Year
ESD Tester	Kikusui	KES4021	LM003537	Apr 05,2008	1 Year
Signal Generator	IFR	2032	203002/100	Apr 05,2008	1 Year
Amplifier	A&R	150W1000	301584	NCR	NCR
Dual Directional Coupler	A&R	DC6080	301508	Apr 05,2008	1 Year
Power Head	A&R	PH2000	301193	Apr 05,2008	1 Year
Power Meter	A&R	PM2002	302799	Apr 05,2008	1 Year
Field Monitor	A&R	FM5004	300329	Apr 05,2008	1 Year
Field Probe	A&R	FP5000	300221	Apr 05,2008	1 Year
EMC PRO System	EM Test	UCS-500-M4	V0648102026	Apr 05,2008	1 Year
EMC PRO System	EM Test	UCS-500-M4	V0648102026	Apr 05,2008	1 Year

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB= 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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APPLICANT: Graco Children's Products Inc.
FCC ID: M6YPD103078
NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE
RULES PART NUMBER: 15.207, RSS-210 Issue 7 June 2007 Section A1

REQUIREMENTS:

Frequency of Emission (MHz)	Conducted 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: ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 45.97dBuV @ 0.286MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 43.86dBuV @ 0.398MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

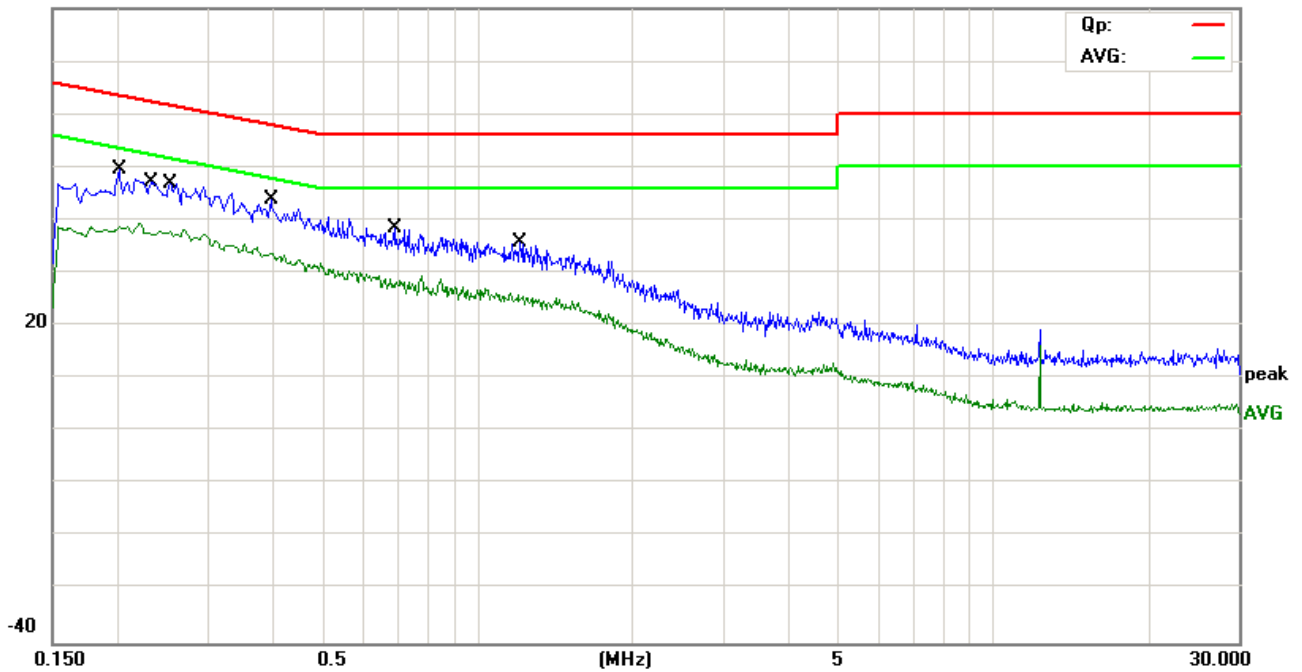
Conducted Emission Measurement

File : Graco
 80.0 dBuV

Data : #7

Date : 08/11/05/

Time : 16/14/17



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 C

Power: DC 6V Adaptor AC 120V/60Hz Humidity: 60 %

EUT: Baby Monitor

M/N: PD103078

Mode: Runing

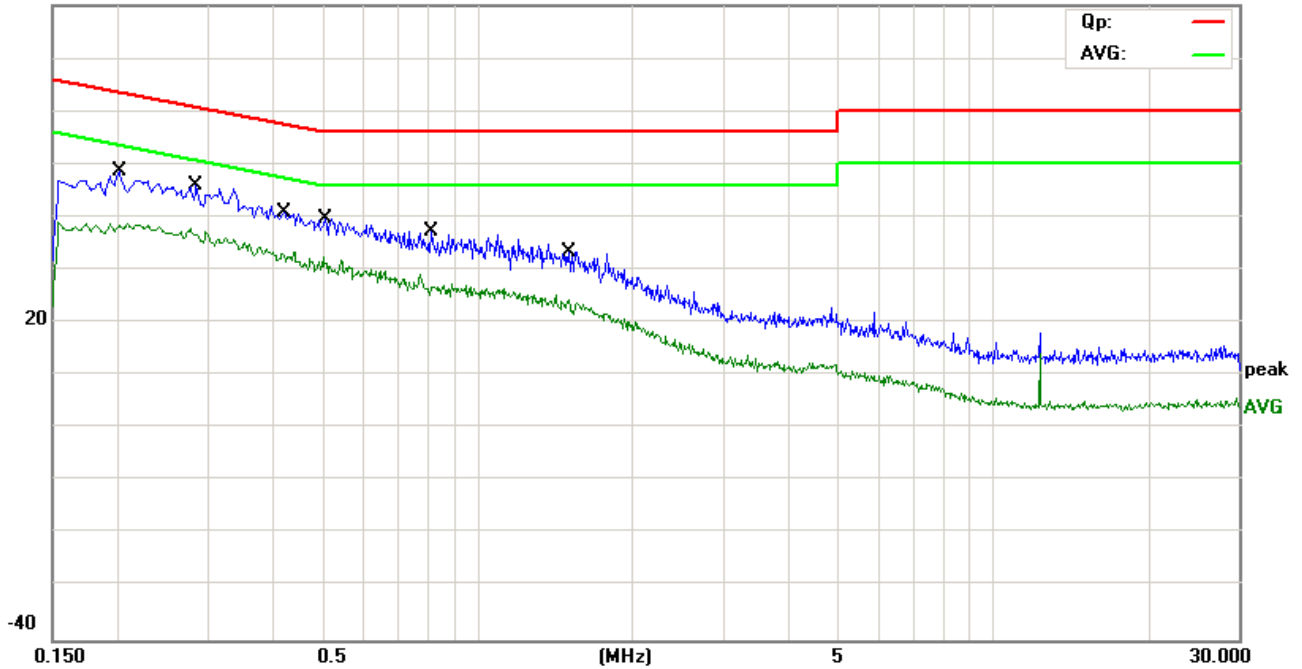
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2020	37.50	11.99	49.49	63.53	-14.04	QP	
2		0.2340	35.35	11.77	47.12	62.31	-15.19	QP	
3		0.2540	35.35	11.64	46.99	61.63	-14.64	QP	
4	*	0.3980	33.18	10.68	43.86	57.90	-14.04	QP	
5		0.6900	28.43	10.00	38.43	56.00	-17.57	QP	
6		1.2100	25.99	9.79	35.78	56.00	-20.22	QP	

*:Maximum data x:Over limit !:over margin

Conducted Emission Measurement

File : Graco Data : #8 Date : 08/11/05/ Time : 16/15/23
80.0 dBuV



Site site #1 Phase: **L1** Temperature: 26
Limit: FCC Part15 C Power: DC 6V Adaptor AC 120V/60Hz Humidity: 60 %
EUT: Baby Monitor
M/N: PD103078
Mode: Running
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2020	36.65	11.99	48.64	63.53	-14.89	QP	
2	*	0.2860	34.54	11.43	45.97	60.64	-14.67	QP	
3		0.4220	30.39	10.52	40.91	57.41	-16.50	QP	
4		0.5100	29.73	10.00	39.73	56.00	-16.27	QP	
5		0.8140	27.25	10.00	37.25	56.00	-18.75	QP	
6		1.5100	23.88	9.49	33.37	56.00	-22.63	QP	

*:Maximum data x:Over limit !:over margin



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APPLICANT: Graco Children's Products Inc.
FCC ID: M6YPD103078
NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209, RSS-210 Issue 7 June 2007 Section A8

REQUIREMENTS:

FIELD STRENGTH of S15.209
 Fundamental:
 49.82-49.90 MHz 30-88 MHz 40 dBuV/m @3m
 88-216 MHz 43.5
 216-960 MHz 46
 80 dBuV/m @3m ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
49.830MHz					
49.830	Vertical	---	50.13	74.21	80.0
72.68	Vertical	---	---	23.12	40.0
99.661	Vertical	---	31.47	34.54	43.5
149.49	Vertical	---	---	31.01	43.5
199.331	Vertical	---	---	32.87	43.5
249.15	Vertical	---	---	32.91	46.0
49.830	Horizontal	---	48.76	73.56	80.0
72.68	Horizontal	---	---	24.61	40.0
99.661	Horizontal	---	30.95	34.11	43.5
149.49	Horizontal	---	---	30.22	43.5
199.331	Horizontal	---	---	31.82	43.5
249.15	Horizontal	---	---	32.51	46.0
49.860MHz					
49.860	Vertical	---	50.23	74.10	80.0
72.68	Vertical	---	---	24.05	40.0
99.72	Vertical	---	32.01	35.01	43.5
149.581	Vertical	---	---	30.26	43.5
199.442	Vertical	---	---	32.91	43.5
249.31	Vertical	---	---	32.48	46.0
49.860	Horizontal	---	47.99	73.82	80.0
72.68	Horizontal	---	---	23.12	40.0
99.72	Horizontal	---	31.57	34.63	43.5
149.581	Horizontal	---	---	30.02	43.5
199.442	Horizontal	---	---	32.87	43.5
249.31	Horizontal	---	---	32.05	46.0

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NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209, RSS-210 Issue 7 June 2007 Section A8

REQUIREMENTS:

FIELD STRENGTH of S15.209
 Fundamental:
 49.82-49.90 MHz 30-88 MHz 40 dBuV/m @3m
 88-216 MHz 43.5
 216-960 MHz 46
 80 dBuV/m @3m ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
49.845MHz					
49.845	Vertical	---	50.32	74.19	80.0
72.68	Vertical	---	---	24.09	40.0
99.690	Vertical	---	30.78	33.97	43.5
149.535	Vertical	---	---	29.82	43.5
199.380	Vertical	---	---	31.82	43.5
249.225	Vertical	---	---	32.11	46.0
49.845	Horizontal	---	48.04	73.34	80.0
72.68	Horizontal	---	---	24.26	40.0
99.690	Horizontal	---	31.21	34.03	43.5
149.535	Horizontal	---	---	29.95	43.5
199.380	Horizontal	---	---	31.17	43.5
249.225	Horizontal	---	---	31.45	46.0

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NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209, RSS-210 Issue 7 June 2007 Section A8

REQUIREMENTS:

FIELD STRENGTH of S15.209
 Fundamental:
 49.82-49.90 MHz 30-88 MHz 40 dBuV/m @3m
 88-216 MHz 43.5
 216-960 MHz 46
 80 dBuV/m @3m ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
49.875MHz					
49.875	Vertical	---	50.34	74.09	80.0
72.68	Vertical	---	---	23.83	40.0
99.750	Vertical	---	31.54	34.15	43.5
149.625	Vertical	---	---	30.23	43.5
199.500	Vertical	---	---	31.29	43.5
249.375	Vertical	---	---	32.07	46.0
49.875	Horizontal	---	48.10	73.24	80.0
72.68	Horizontal	---	---	23.89	40.0
99.750	Horizontal	---	30.87	33.89	43.5
149.625	Horizontal	---	---	29.32	43.5
199.500	Horizontal	---	---	31.26	43.5
249.375	Horizontal	---	---	32.15	46.0

Emissions attenuated more than 20 dB below the permissible value are not reported.

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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NAME OF TEST: Occupied Bandwidth and Band Edge Compliance

RULES PART NUMBER: 15.235, 15.209, RSS-210 Issue 7 June 2007 Section A1

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the carrier or to the general limits of 15.209.

Band edge emissions plots are included on the following pages

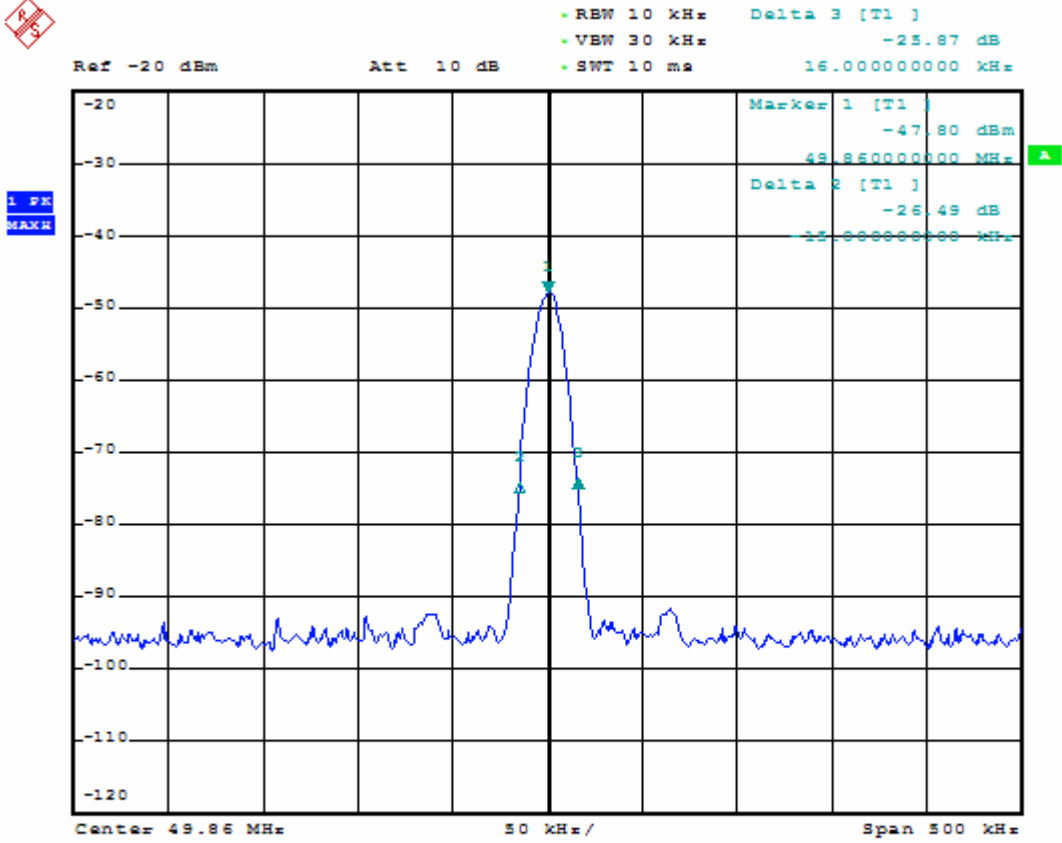
METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the Spectrum analyzer and the attached plot was printed. The vertical scale is set to-10 dB per division.

TEST RESULTS: The unit does meet the FCC requirements.



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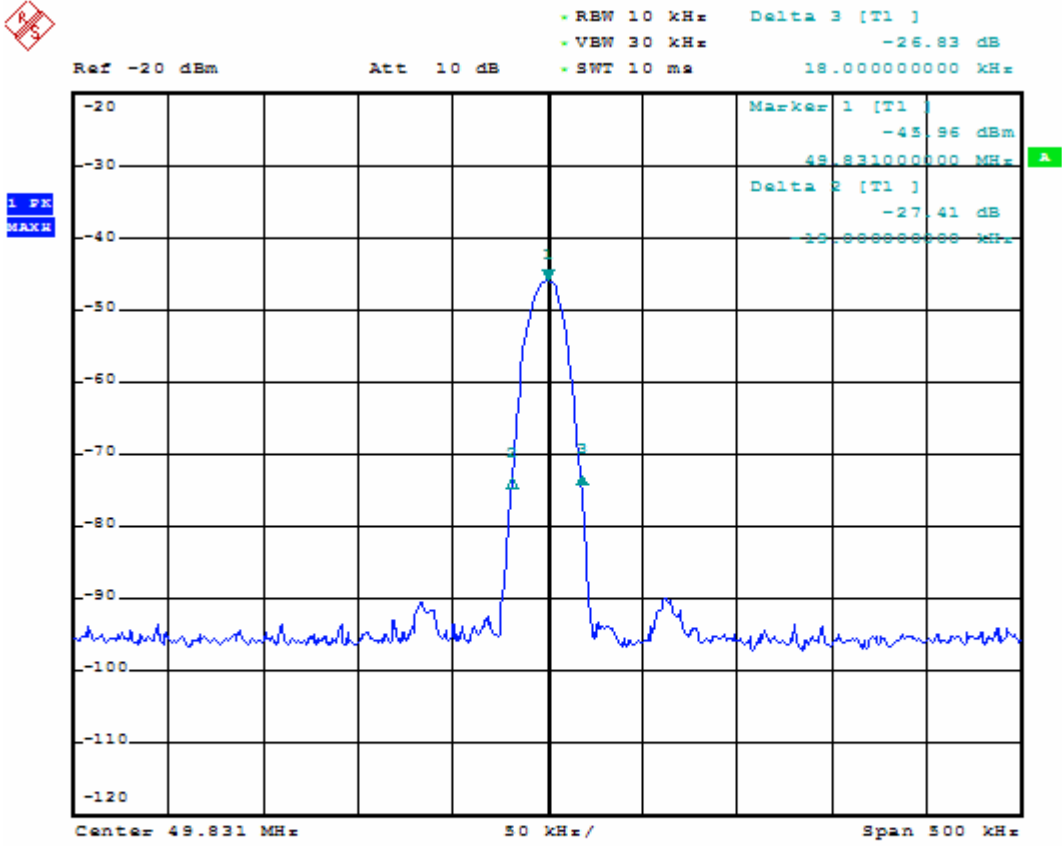
49.860MHz





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49.830MHz





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49.845MHz



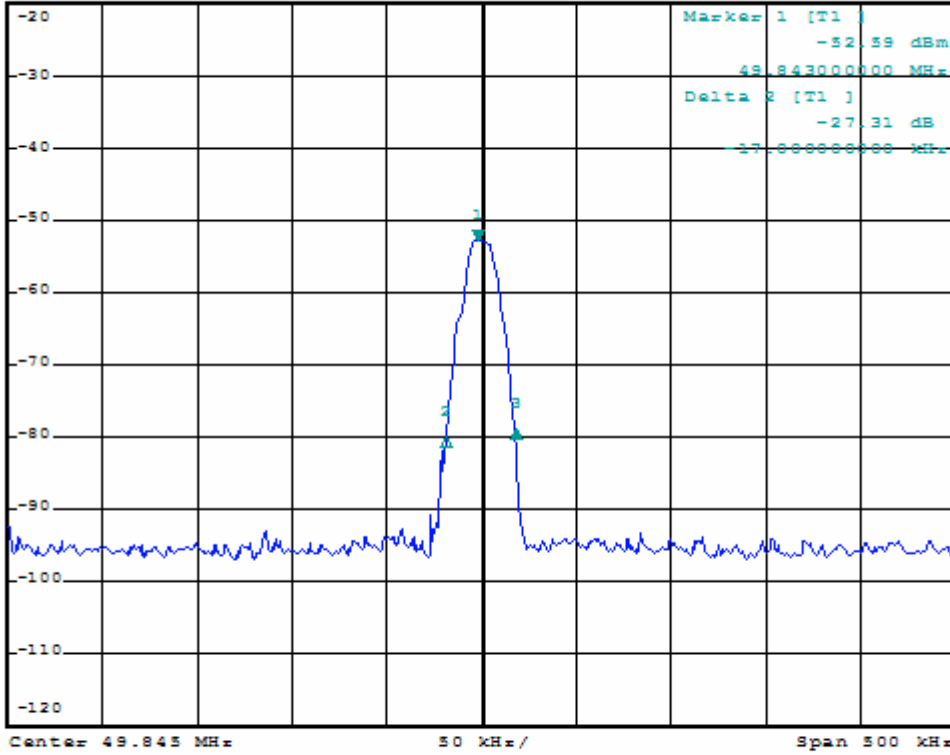
RBW 10 kHz Delta 3 [T1]
VBW 30 kHz -26.30 dB
SWT 10 ms 20.00000000 kHz

Ref -20 dBm

Att 10 dB

20.00000000 kHz

1 PK
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49.875MHz

