

**FCC PART 15, SUBPART C
TEST REPORT***for***TUNECAST AUTO 4****MODEL: F8Z343**

Prepared for

**BELKIN INTERNATIONAL, INC.
501 W. WALNUT STREET
COMPTON, CA 90220-5221**

Prepared by: _____

JOSH HANSEN

Approved by: _____

JEFF KLINGER**COMPATIBLE ELECTRONICS INC.
20621 Pascal Way
LAKE FOREST, CA 92630
(949) 587-0400**

DATE: August 21, 2008

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	17	2	2	2	8	13	44

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1	Plot Map And Layout of 3 Meter Radiated Site

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Tunecast Auto 4
Model: F8Z343
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Belkin International, inc.
501 W. Walnut Street
Compton, CA 90220-5221

Test Date: August 12th and 19th, 2008

Test Specifications: CFR Title 47, Part 15 Subpart C, Sections 15.205, 15.209 and 15.239

Test Procedure: ANSI C63.4: 2003

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Radiated RF Emissions, 10 kHz – 1080 MHz	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, 15.239 (b), and 15.239 (c).
2	-20 dB Bandwidth of the Fundamental	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.239 (a).

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Tunecast Auto 4 Model: F8Z343. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.239.



2. ADMINISTRATIVE DATA**2.1 Location of Testing**

The EMI tests described herein were performed at the test facility of Compatible Electronics, 20621 Pascal Way, Lake Forest, California 92630.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Belkin International, inc.

Daniel Wesey Compliance Engineer

Compatible Electronics, Inc.

Josh Hansen Test Engineer
Jeff Klinger Director of Engineering

2.4 Date Test Sample was Received

The test sample was received on August 12, 2008.

2.5 Disposition of the Test Sample

The sample has not yet been returned to Belkin International, inc. as of August 21, 2008.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
CLA	Cigar Lighter Adaptor
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Tunecast Auto 4 Model: F8Z343 (EUT) was connected to an Apple iPod via its integral 30-Pin Dock Connector. 12v DC was supplied via the EUT's integral CLA (Cigar Lighter Adaptor), which was connected to a CLA socket receptacle, which in turn was connected to a 12v battery. The EUT was receiving audio from the iPod and transmitting the audio in the FM band, the iPod and the music being played was provided by the customer, the song was Linkin Park "Don't say" 0dB encoded. The EUT's transmit antenna was directly connected to the PCB of the EUT, and is mounted in the top cover.

The low, middle, and high channels were investigated.

The final data was taken in the mode above. Please see Appendix E for the data sheets.

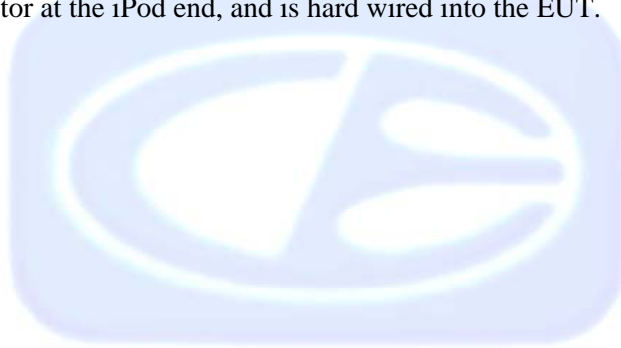
4.1.1 Cable Construction and Termination

Cable 1

This is a .5 meter shielded cable connecting the Cigar Lighter (Battery receptacle) to the EUT. The cable has a CLA at the cigar lighter receptacle end and is hard wired into the EUT. The shield of the cable is not terminated.

Cable 2

This is a .5 meter unshielded cable connecting the iPod to the EUT. The cable has a 30 pin iPod Dock Connector at the iPod end, and is hard wired into the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
TUNECAST AUTO 4 (EUT)	BELKIN INTERNATIONAL, INC.	F8Z343	N/A	K7SF8Z343
iPod	Apple	A1136	JQ542XTQSZ9	N/A
12v Battery		N/A	N/A	N/A

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Compatible Electronics	N/A	N/A	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100219	April 1, 2008	April 1, 2009
Monitor	ICS Advent	N/A	N/A	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
CombyLog Antenna	Com-Power	AC-220	25951	April 19, 2008	April 19, 2009
Loop Antenna	Com-Power	AL-130	17085	Aug. 1, 2008	Aug. 1, 2010
Antenna Mast	Sunol Sciences Corporation	TWR 95-4	020808-3	N/A	N/A
Turntable	Sunol Sciences Corporation	FM 2001	N/A	N/A	N/A
Mast and Turntable Controller	Sunol Sciences Corporation	SC104V	020808-1	N/A	N/A
Active Horn Antenna	Com-Power	AHA-118	701089	Aug. 8, 2008	Aug. 8, 2009
Pre-Amp	Com-Power	PA-122	01321	June 4, 2008	June 4, 2009

6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT, iPod, and Cigar Lighter receptacle were mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was placed in the center, and on the back edge of the table, in accordance with ANSI c63.4:2003. The test site receive antenna distance was measured from the closest periphery of the EUT setup. Each accessory was placed 10cm to either side of the EUT. The battery was placed on the ground, using an 80cm length of wire to connect to a cigar lighter receptacle, which was mounted on the table.

The EUT and accessories were investigated for worst case placement; the above yielded the worst case configuration.

The EUT was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions**7.1.1 Conducted Emissions Test**

EUT is DC powered, this test was not performed.

Test Results:

Test not performed.



7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The receiver was used as a measuring meter along with the quasi-peak adapter. The receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the receiver records the highest measured reading over all the sweeps.

The frequencies above 1 GHz and the fundamental for the low, middle, and high channels were investigated with the built in average detector.

The measurement bandwidths and transducers used for the radiated emissions (Spurious) tests were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 1 GHz	120 kHz	CombiLog Antenna
1 GHz to 1.08 GHz	1 MHz	Horn Antenna

The Semi-Anechoic test site of Compatible Electronics, Inc, Lab P, was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.3 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The EUT was tested at a 3-meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.239.

7.1.4 Peak radiated EMI

The EUT was tested at a 3-meter test distance to obtain the final test data. The EUT was maximized for cable placement as well as EUT position. The EUT was receiving a 0dB encoded file from the audio source. This file represents maximum audio input level. The resolution bandwidth was 100 KHz and video bandwidth 300 KHz. The final qualification data sheets are located in Appendix E. This data also shows compliance at the band edges.

Test Results:

The EUT complies with Part 15, Subpart C, section 15.239.

7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked using the EMI Receiver to see that it was wholly within the 200 kHz band centered on the operating frequency. The RBW was set to 10 kHz and the VBW was set to 30 kHz, but no less than 3kHz RBW and 10kHz VBW. The low, middle, and high channels were investigated. Plots of the -20 dB bandwidth are located in Appendix E.

Test Results:

The EUT complies with the requirements of CFR Title 47, Part 15, Subpart C, section 15.239 (a) for the -20 dB bandwidth of the fundamental. The EUT has a -20 dB bandwidth that is wholly within the 200 kHz band centered on the operating frequency.



8. CONCLUSIONS

The Tunecast Auto 4 Model: F8Z343 meets all of the specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.239 for the transmitter portion.





APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200527-0

Voluntary Control Council for Interference - Registration Numbers: R-2848, C-3142, T-1450

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Industry Canada



APPENDIX B

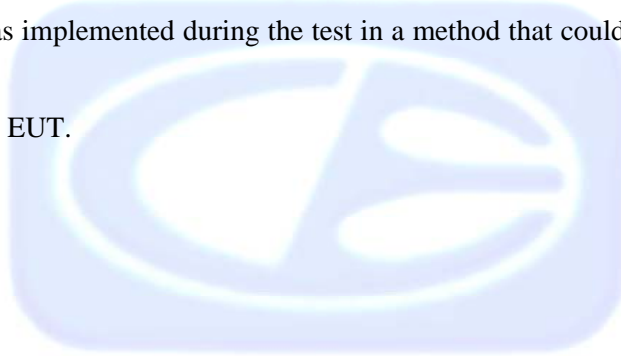
MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.239 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT.





APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Tunecast Auto 4
Model: F8Z343
S/N: 10

Additional Model Numbers:

Tunecast Auto 4
Model: F8Z343Y

F8Z343Y “Y” is for Yifang, a different manufacturer.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED TEST SITE

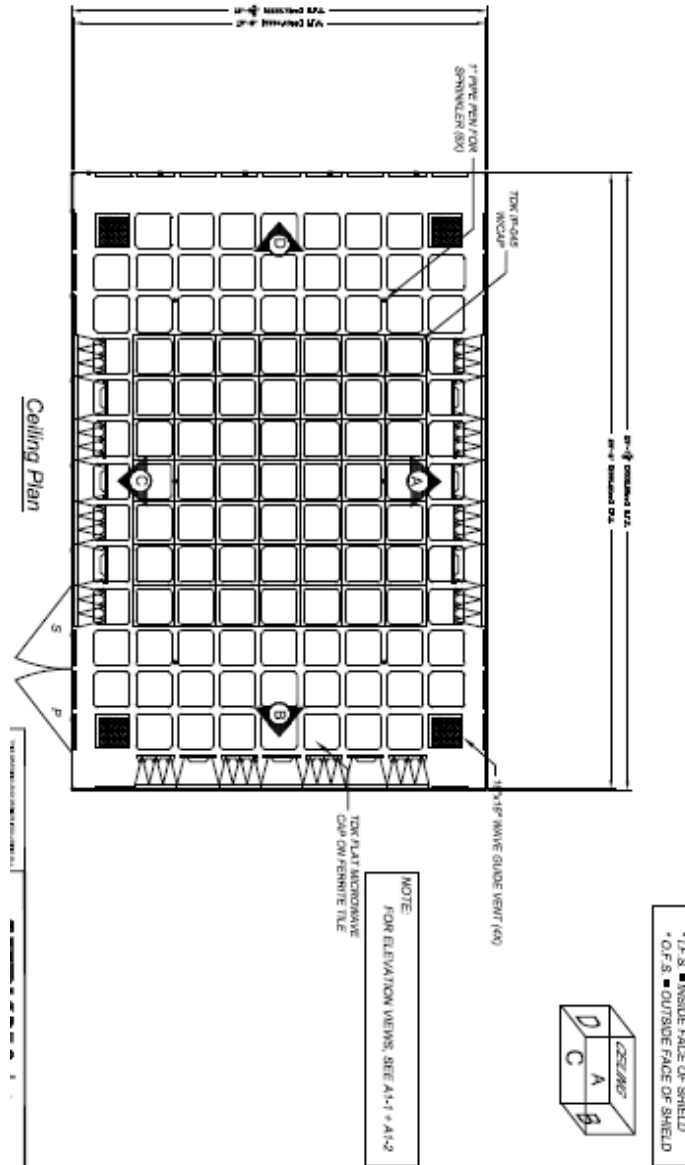


Figure 1 ITDK FAC-3 test chamber

COM-POWER AC-220**COMBYLOG ANTENNA**

S/N: 25951

CALIBRATION DATE: 4/19/08

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	16.4	160	13.5
35	15.2	180	10.3
40	14.9	200	10.4
45	14.9	250	12.7
50	17.9	300	14.3
60	14	400	16.3
70	8.6	500	20.2
80	5.6	600	18.6
90	7.2	700	21.6
100	8.5	800	23.9
120	15	900	24.3
140	10.9	1000	25.5

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17085

CALIBRATION DATE: 8/1/08

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)	FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-43	8.5	0.8	-41.53	9.97
0.01	-41.93	9.57	0.9	-41.46	10.04
0.02	-41.29	10.21	1	-41.29	10.21
0.03	-40.73	10.77	2	-40.97	10.53
0.04	-41.03	10.47	3	-41.1	10.4
0.05	-42.37	9.13	4	-41.36	10.14
0.06	-41.6	9.9	5	-40.93	10.57
0.07	-41.96	9.54	6	-40.67	10.83
0.08	-42.1	9.4	7	-41.07	10.43
0.09	-41.83	9.67	8	-40.9	10.6
0.1	-41.83	9.67	9	-40.1	11.4
0.2	-44.46	7.04	10	-41.16	10.34
0.3	-41.73	9.77	15	-47.97	3.53
0.4	-41.8	9.7	20	-40.77	10.73
0.5	-41.8	9.7	25	-44.37	7.13
0.6	-41.33	10.17	30	-43.1	8.4
0.7	-41.36	10.14			

COM-POWER PA-122**Microwave Pre Amplifier**

S/N: 01321

A/N: 2251

CALIBRATION DATE: 6/4/08

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
500	28.8914	4000	28.9544
600	28.8487	4500	28.3199
700	28.9687	5000	27.6183
800	28.3525	5500	27.1993
900	28.4623	6000	27.3417
1000	28.6107	6500	27.118
1100	29.4893	7000	28.1979
1200	29.7822	7500	26.7397
1300	29.5402	8000	28.0657
1400	29.8168	8500	27.9152
1500	29.8839	9000	28.2182
1600	29.6805	10000	29.8879
1700	29.589	12000	29.0846
1800	29.9652	14000	29.0236
1900	29.6174	16000	28.3382
2000	29.471	18000	26.9837
2500	29.2148	20000	25.6435
3000	29.593	22000	25.5845
3500	30.0405		

COM-POWER AHA-118**ACTIVE HORN ANTENNA**

S/N: 701089

A/N: 5011

CALIBRATION DATE: 8/8/08

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000.00	-1.8	10000.00	13.4
1500.00	-0.3	10500.00	14.5
2000.00	0.9	11000.00	15.2
2500.00	2.5	11500.00	16.3
3000.00	2.6	12000.00	17
3500.00	3.2	12500.00	16.5
4000.00	4.1	13000.00	15.4
4500.00	5.4	13500.00	12.2
5000.00	7.5	14000.00	19.4
5500.00	7.1	14500.00	16
6000.00	8.5	15000.00	15
6500.00	8.9	15500.00	14.5
7000.00	12.2	16000.00	14.5
7500.00	14	16500.00	11.9
8000.00	15.1	17000.00	13.8
8500.00	11.7	17500.00	16.9
9000.00	13.5	18000.00	16
9500.00	13.6		



FRONT VIEW

BELKIN INTERNATIONAL, INC.
TUNECAST AUTO 4
MODEL: F8Z343
FCC SUBPART B AND C – RADIATED EMISSIONS

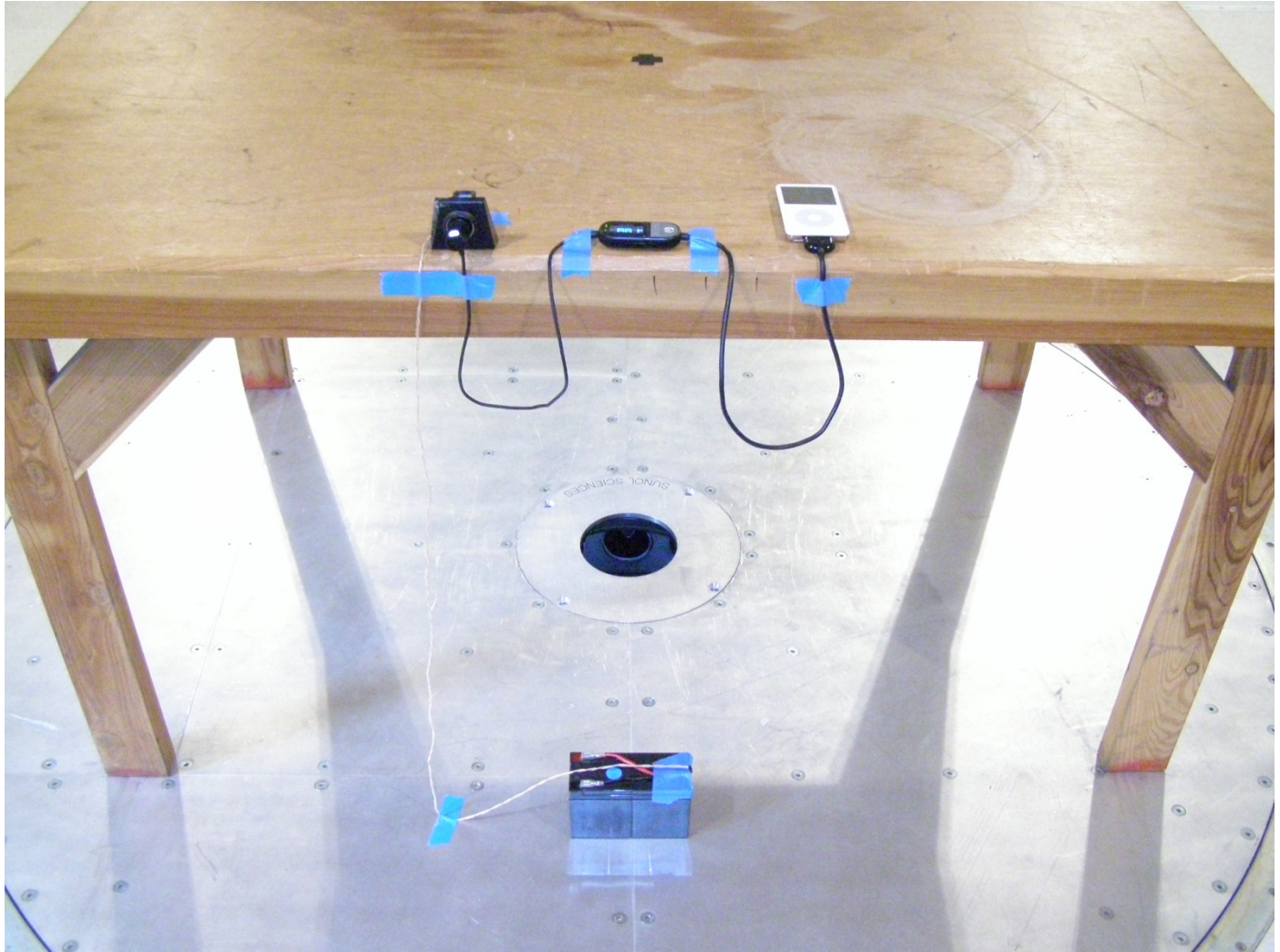
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

BELKIN INTERNATIONAL, INC.
TUNECAST AUTO 4
MODEL: F8Z343
FCC SUBPART B AND C – EUT Close-up

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



DATA SHEETS



RADIATED EMISSIONS

SPURIOUS AND HARMONICS

DATA SHEETS

Title: FCC15-239
File: Final-scan -CH88-1 Spur.set
Operator: Josh Hansen
EUT Type: TuneCast Auto 4
EUT Condition: CH 88.1, Setup at edge of table measured 3m from closest point of EUT setup
Comments: Model: F8Z343, SN: 10
Music: 0dB Encode, Artist: Linkin Park, Song: Dont Stay.
Temp: 66f
Hum: 61%

8/12/2008 2:46:11 PM

Sequence: Final Measurements

Compatible Electronics, Inc

Freq (MHz)	(QP) Margin (dB)	(QP) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
41.00	-9.63	30.37	33.31	40.00	242.50	100.05	V
42.10	-9.98	30.02	32.52	40.00	329.75	100.11	V
45.30	-8.68	31.32	34.92	40.00	360.00	99.94	V
46.40	-5.93	34.07	36.55	40.00	3.75	100.00	V
47.50	-10.63	29.37	33.38	40.00	54.25	170.23	V
48.55	-14.50	25.50	29.62	40.00	193.25	314.41	H
49.35	-10.30	29.70	32.90	40.00	360.25	369.94	H
49.35	-11.29	28.71	31.13	40.00	41.50	182.17	V
144.10	-17.08	26.42	30.69	43.50	90.50	131.35	V
176.20	-27.16	16.34	19.45	43.50	222.75	237.94	H
176.20	-22.34	21.16	23.36	43.50	184.00	104.29	V
264.30	-20.71	25.29	27.17	46.00	273.75	112.94	H
264.30	-21.48	24.52	26.82	46.00	227.50	104.05	V

Title: FCC15-239
 File: Final-scan -CH97-9 Spur.set
 Operator: Josh Hansen
 EUT Type: TuneCast Auto 4
 EUT Condition: CH 97.9, Setup at edge of table measured 3m from closest point of EUT setup
 Comments: Model: F8Z343, SN: 10
 Music: 0dB Encode, Artist: Linkin Park, Song: Dont Stay.
 Temp: 66f
 Hum: 61%

8/12/2008 12:49:12 PM
 Sequence: Final Measurements

Compatible Electronics, Inc

Freq (MHz)	(QP) Margin (dB)	(QP) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
41.00	-9.50	30.50	34.03	40.00	222.50	111.11	V
42.10	-8.79	31.21	33.26	40.00	212.75	99.88	V
45.30	-6.95	33.05	36.10	40.00	346.50	99.94	V
46.40	-5.41	34.59	36.61	40.00	21.75	100.05	V
47.50	-8.53	31.47	34.53	40.00	23.75	149.00	V
48.55	-14.43	25.57	31.83	40.00	210.75	323.76	H
49.35	-10.66	29.34	31.96	40.00	176.50	334.47	H
49.35	-11.37	28.63	31.34	40.00	30.75	172.94	V
144.10	-19.89	23.61	28.74	43.50	176.25	143.35	V
195.80	-27.18	16.32	19.31	43.50	325.50	100.23	V
293.80	-18.99	27.01	29.12	46.00	194.00	236.52	V
293.90	-22.27	23.73	27.27	46.00	289.25	110.64	H

Title: FCC15-239
 File: Final-scan -CH107-9 Spur.set
 Operator: Josh Hansen
 EUT Type: TuneCast Auto 4
 EUT Condition: CH 107.9, Setup at edge of table measured 3m from closest point of EUT setup
 Comments: Model: F8Z343, SN: 10
 Music: 0dB Encode, Artist: Linkin Park, Song: Dont Stay.
 Temp: 66f
 Hum: 61%

8/12/2008 2:12:38 PM

Sequence: Final Measurements

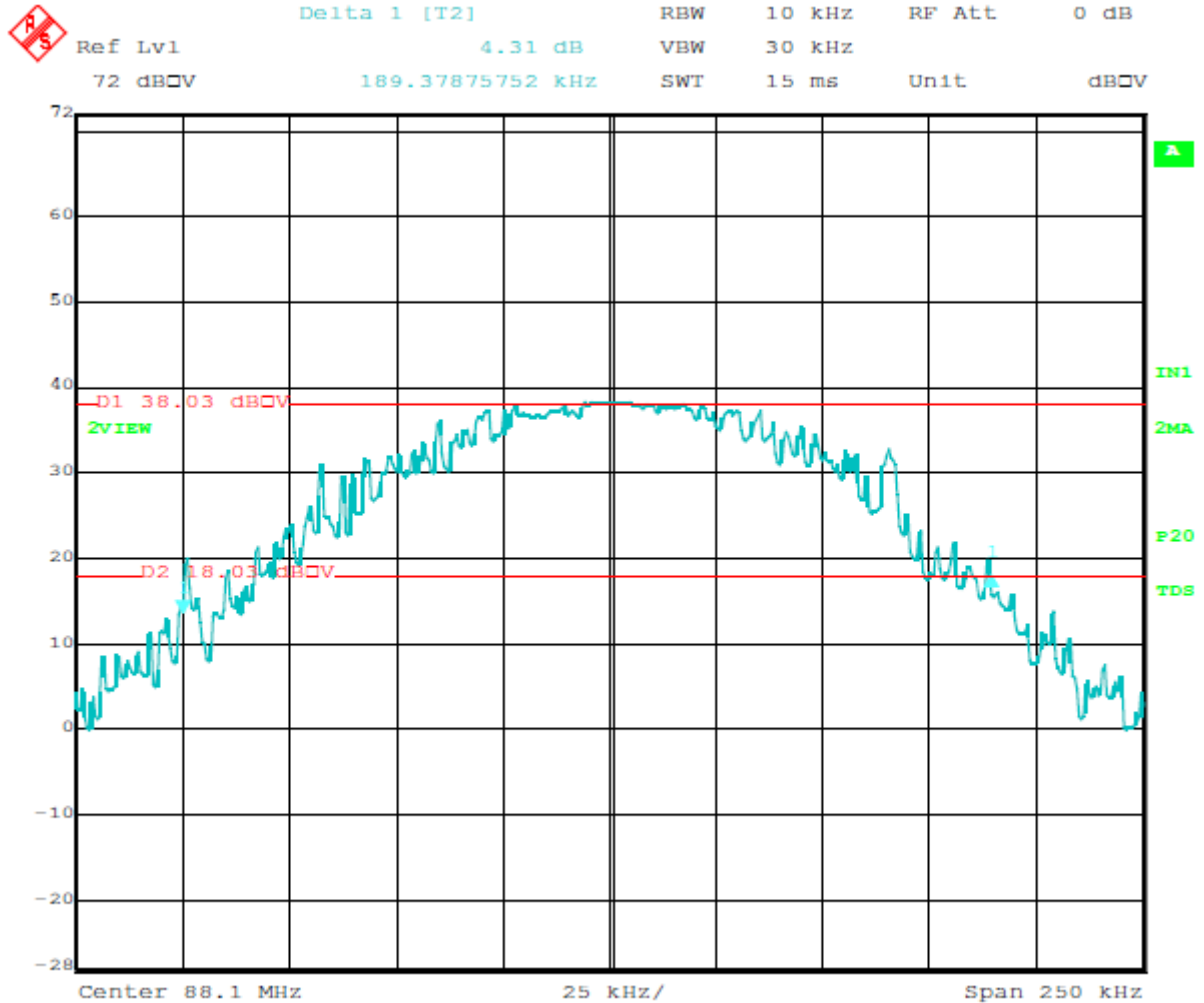
Compatible Electronics, Inc

Freq (MHz)	(QP) Margin (dB)	(QP) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
41.00	-9.18	30.82	33.09	40.00	44.25	105.00	V
42.10	-9.60	30.40	32.29	40.00	271.00	99.82	V
45.30	-9.38	30.62	32.78	40.00	359.75	187.29	V
46.40	-6.18	33.82	36.58	40.00	359.00	116.94	V
47.50	-10.78	29.22	32.63	40.00	357.00	175.88	V
48.55	-14.39	25.61	28.90	40.00	178.75	322.64	H
49.35	-11.22	28.78	31.30	40.00	290.75	335.58	H
49.35	-12.99	27.01	29.99	40.00	351.25	214.41	V
144.10	-16.58	26.92	29.29	43.50	129.00	122.58	V
215.80	-33.20	10.30	15.43	43.50	160.00	176.29	H
215.80	-33.47	10.03	15.18	43.50	196.50	211.35	V
323.70	-32.09	13.91	18.94	46.00	176.25	380.52	H
323.70	-31.83	14.17	18.78	46.00	246.75	166.58	V



-20 dB BANDWIDTH

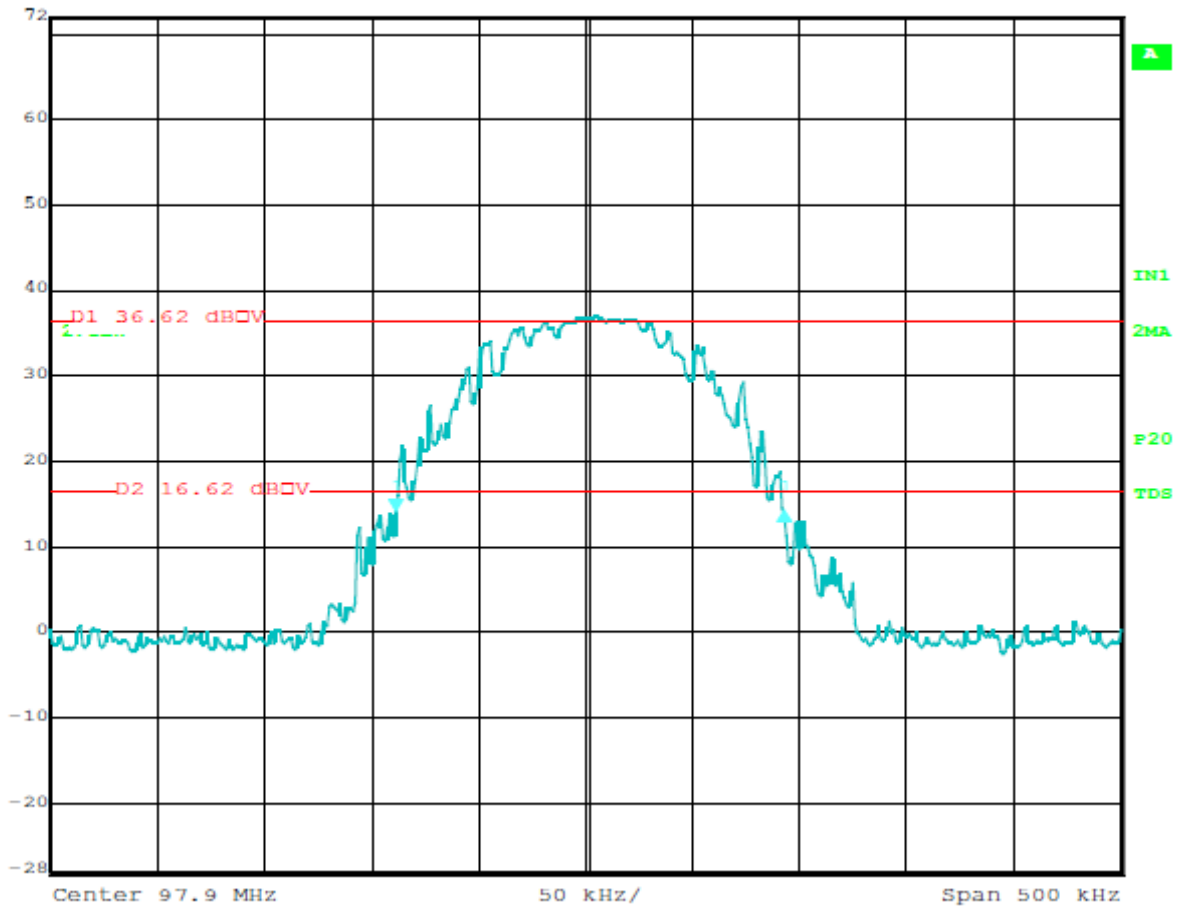
DATA SHEETS



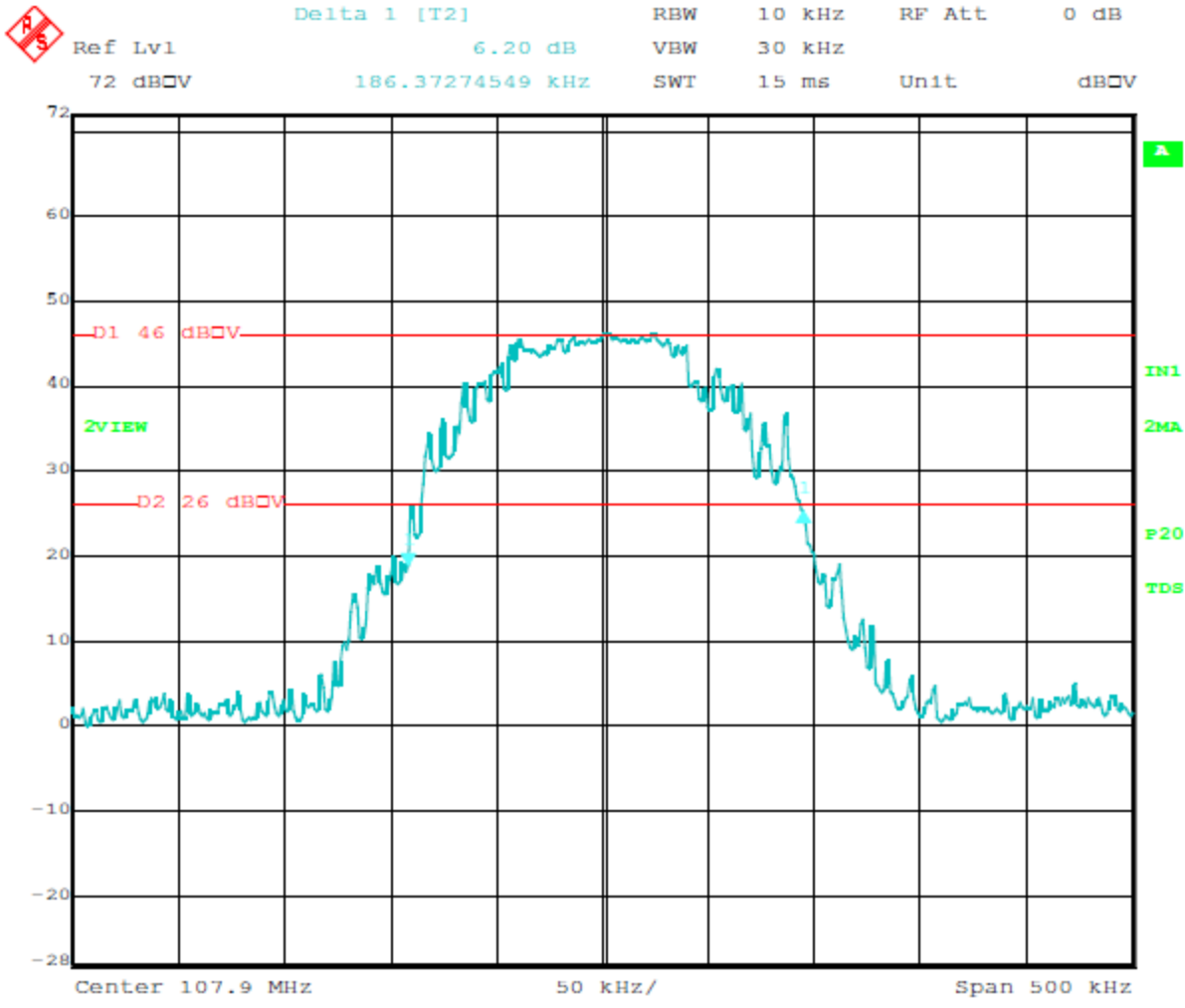
Date: 12.AUG.2008 09:15:29



	Delta 1 [T2]	RBW	10 kHz	RF Att	0 dB
Ref Lvl	0.06 dB	VBW	30 kHz		
72 dB \square V	181.36272545 kHz	SWT	15 ms	Unit	dB \square V



Date: 19.AUG.2008 17:22:30

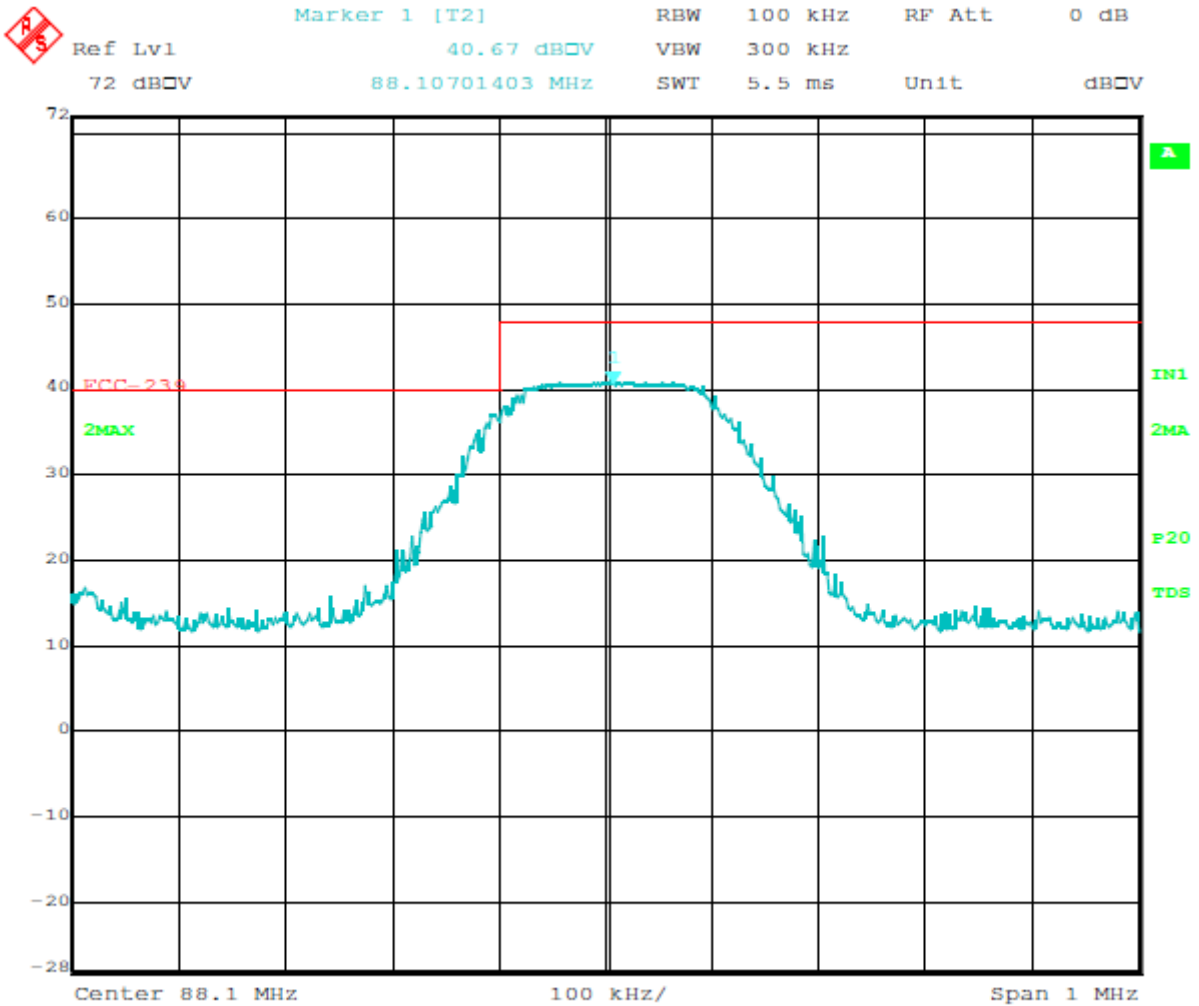


Date: 19.AUG.2008 17:18:03



PEAK TRANSMIT EMI and BAND EDGE

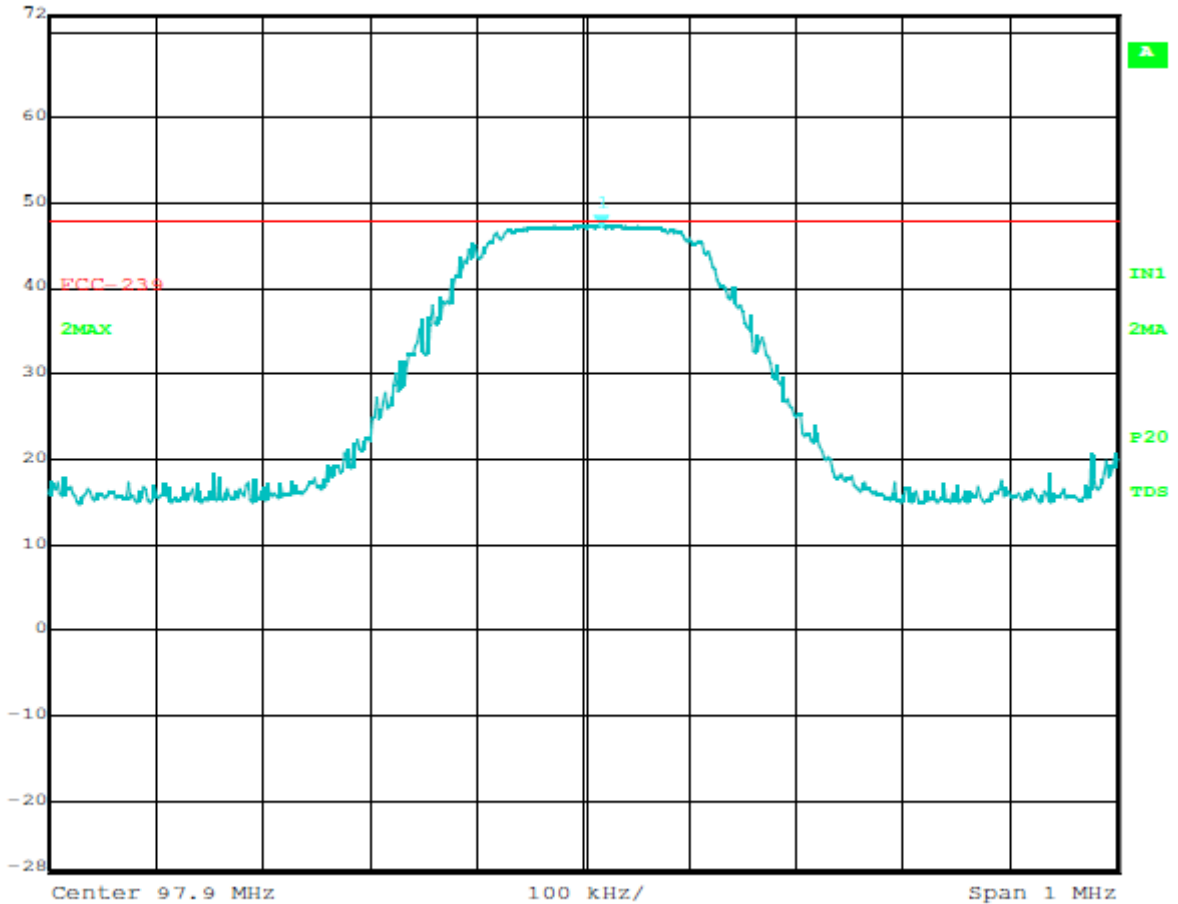
DATA SHEETS



Date: 12.AUG.2008 09:07:57



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	0 dB
72 dB \square V	47.10 dB \square V	VBW	300 kHz		
	97.91703407 MHz	SWT	5.5 ms	Unit	dB \square V



Date: 12.AUG.2008 09:00:23

