



No. 1 Workshop, M-10, Middle Section, Science & Technology Park,
District Shenzhen, China 518057
Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: sgs_internet_operations@sgs.com
FEDERAL COMMUNICATIONS COMMISSION
Registration number: 556682

Report No.: SZEMO09070415901
Page: 1 of 16

TEST REPORT

Application No.: SZEMO090704159RF
Applicant: Microsoft Corporation
Address of Applicant: One Microsoft Way, Redmond, WA 98052-6399
FCC ID: C3K-1397
Fundamental Frequency : 88.1MHz-107.9MHz
Channel step: 100KHz
Equipment Under Test (EUT):
Name: Zune Car FM Transmitter
Model No.: 1397
Trade Mark: Microsoft
Standards: FCC PART 15, SUBPART C (Section 15.239)
Date of Receipt: 22 July 2009
Date of Test: 22 to 23 July 2009
Date of Issue: 24 July 2009

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

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

Authorized Signature:

Robinson Lo
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

"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 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Radiated Emission (30MHz to 2GHz)	FCC PART 15 : 2008	Section 15.239/15.33	PASS
Occupied Bandwidth	FCC PART 15 : 2008	Section 15.239(a)	PASS

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.



3 Contents

	Page
.....	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 DETAILS OF E.U.T	4
4.2 DESCRIPTION OF SUPPORT UNITS	4
4.3 STANDARDS APPLICABLE FOR TESTING	4
4.4 TEST LOCATION	5
4.5 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
4.6 TEST FACILITY	5
5 TEST RESULTS	6
5.1 TEST INSTRUMENTS.....	6
5.2 E.U.T. OPERATION.....	7
5.3 TEST PROCEDURE & MEASUREMENT DATA	7
5.3.1 <i>Radiated Emissions</i>	7
5.3.2 <i>Occupied Bandwidth</i>	12-16



4 General Information

4.1 Details of E.U.T

Name: Zune Car FM Transmitter

Model No.: 1397

Power Supply: DC 12 V

Power Cord: N/A

Channel Frequency:

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	88.1	26	93.1	51	98.1	76	103.1
2	88.3	27	93.3	52	98.3	77	103.3
3	88.5	28	93.5	53	98.5	78	103.5
4	88.7	29	93.7	54	98.7	79	103.7
5	88.9	30	93.9	55	98.9	80	103.9
6	89.1	31	94.1	56	99.1	81	104.1
7	89.3	32	94.3	57	99.3	82	104.3
8	89.5	33	94.5	58	99.5	83	104.5
9	89.7	34	94.7	59	99.7	84	104.7
10	89.9	35	94.9	60	99.9	85	104.9
11	90.1	36	95.1	61	100.1	86	105.1
12	90.3	37	95.3	62	100.3	87	105.3
13	90.5	38	95.5	63	100.5	88	105.5
14	90.7	39	95.7	64	100.7	89	105.7
15	90.9	40	95.9	65	100.9	90	105.9
16	91.1	41	96.1	66	101.1	91	106.1
17	91.3	42	96.3	67	101.3	92	106.3
18	91.5	43	96.5	68	101.5	93	106.5
19	91.7	44	96.7	69	101.7	94	106.7
20	91.9	45	96.9	70	101.9	95	106.9
21	92.1	46	97.1	71	102.1	96	107.1
22	92.3	47	97.3	72	102.3	97	107.3
23	92.5	48	97.5	73	102.5	98	107.5
24	92.7	49	97.7	74	102.7	99	107.7
25	92.9	50	97.9	75	102.9	100	107.9

4.2 Description of Support Units

The EUT was tested as an independent unit: a FM transmitter

4.3 Standards Applicable for Testing

The customer requested FCC tests for a FM transmitter

The standard used was FCC PART 15, SUBPART C: 2008 section 15.239.



4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Other Information Requested by the Customer

None.

4.6 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.



5 Test Results

5.1 Test Instruments

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	16-06-2009	15-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2009	17-06-2010
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2009	17-06-2010
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2009	17-06-2010
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2009	17-06-2010
11	Band filter	Amindeon	82346	SEL0094	18-06-2009	17-06-2010
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2009	14-06-2010

"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."



5.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 52 % RH

Atmospheric Pressure: 1010 mbar

Remark: FM Transmitter modulation with signal of symphony.
Used maximum input audio level 399mVrms.

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.239, 15.33

Test Method: ANSI C63.4: 2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Test mode:

Transmit with un-modulation Keep the EUT in transmitting mode with un-modulation.

Transmit with modulation FM Transmitter modulation with signal of symphony.
Used maximum input audio level 399mVrms..

Test procedure: Pre-scan the Transmit with un-modulation, Transmit with modulation mode, and found the worse case which it is transmit with modulation.

Test Frequency: The lowest channel: 88.1MHz
The middle channel: 98.1MHz
The highest channel: 107.9MHz

Frequency range: 30 MHz – 2GHz

Receiver setup: Below 1GHz: RBW=120kHz VBW=300KHz
Above 1GHz: RBW=1MHz VBW=1MHz

Requirements:

According to FCC 15.239 requirements:

(b)The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

(c) The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in Section 15.209.

The limit for average field strength dBuV/m for the fundamental frequency = 48.0 dBuV/m.

And the limit for peak field strength dBuV/m for the fundamental frequency = 68.0 dBuV/m



Test Procedure:

The procedure used was ANSI Standard C63.4-2003. The receiver was scanned from 30MHz to 2GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

(1) The FM transmitter (plug) pulled straight up on its cable from the cigarette lighter adapter to 121cm length.

(2) The FM transmitter (plug) pulled straight up 8cm to the terminal bump. Prescan tests were performed in X, Y, Z axis positioning, and final cable method was performed by placing the 121cm cable looped in a "U" horizontal on top of the table. The 121cm cable was manipulated in a variety of ways on the test table top (thrown, pulled straight, etc) for proper judgment of the worst case. The worst case was found on X axis (the FM transmitter fixed on the non-conductive bracket, and the antenna terminal is touched on table which is 0.8m above ground plane) by keeping the cable in "U" loop as shown in the final test set up photo.

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

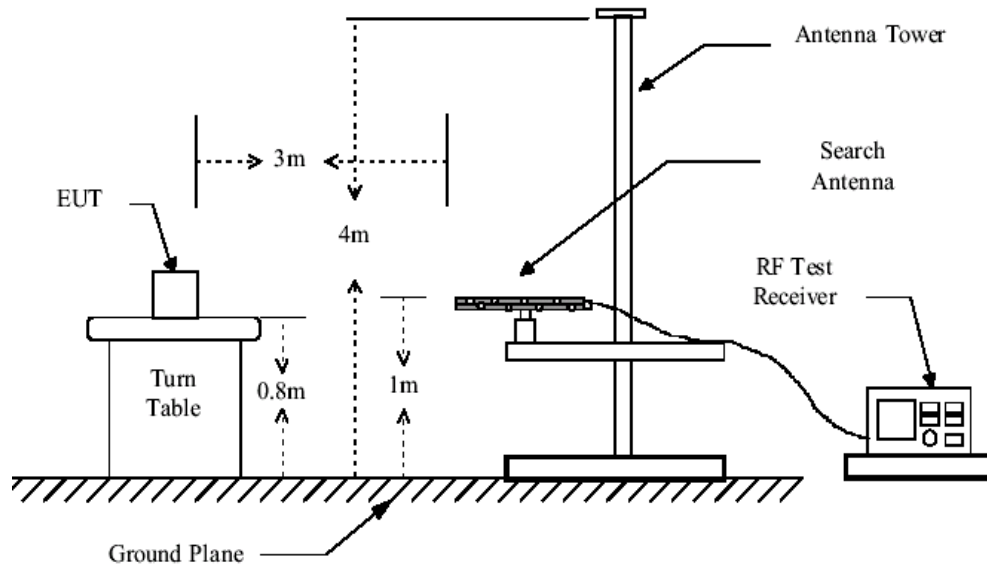
An initial pre-scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph.

Pre-Scan data:

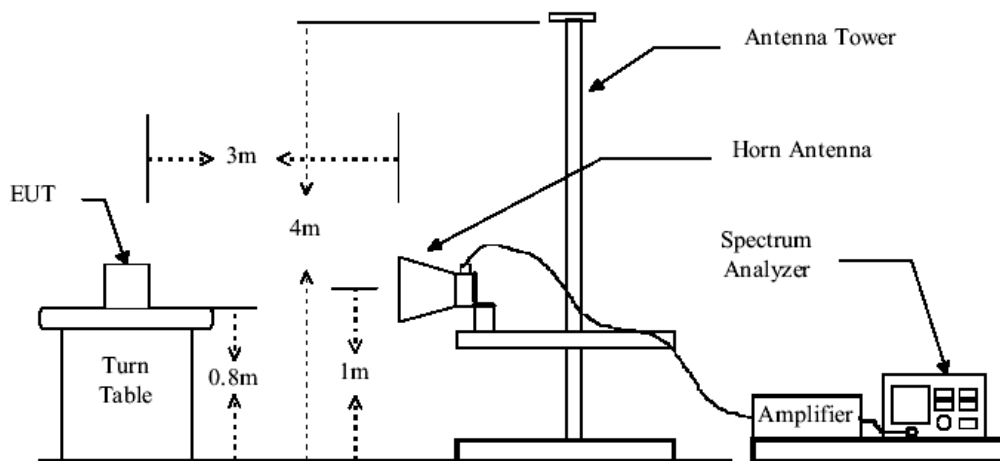
Axis	X Data(peak)	Y Data(peak)	Z Data(peak)
107.9MHz	46.36dBuV/m	36.46dBuV/m	34.72dBuV/m

Configuration of Measurement:

Below 1GHz



Above 1GHz





The following test results were performed on the EUT

1. Fundamental emission

Test Frequency (MHz)	Peak (dBµV/m)		Limits (dBµV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
88.1	35.82	30.09	68.00	32.18	37.91
98.1	38.73	33.85	68.00	29.27	34.15
107.9	46.36	41.28	68.00	21.64	26.72

Test Frequency (MHz)	Average (dBµV/m)		Limits (dBµV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
88.1	34.42	30.12	48.00	13.58	17.88
98.1	37.37	32.23	48.00	10.63	15.77
107.9	44.76	39.36	48.00	3.24	8.64

2. Harmonics & Spurious Emissions

Lowest channel: 88.1MHz

Vertical

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)
176.47	1.36	9.77	27.28	41.49	25.34	43.5	-18.16
265.71	1.75	12.63	26.85	41.02	28.55	46	-17.45
527.61	2.63	18.56	27.68	31.18	24.69	46	-21.31
792.42	3.18	22.07	26.96	30.90	29.19	46	-16.81

Horizontal

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)
176.47	1.36	9.77	27.28	42.19	26.04	43.5	-17.46
265.71	1.75	12.63	26.85	40.56	28.09	46	-17.91
527.61	2.63	18.56	27.68	30.24	23.75	46	-22.25
792.42	3.18	22.07	26.96	31.07	29.36	46	-16.64

"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."



Middle channel: 98.1MHz

Vertical

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)
196.20	1.39	10.16	27.17	40.19	24.57	43.5	-18.93
392.45	2.18	16.20	27.36	35.16	26.18	46	-19.82
490.45	2.56	17.80	27.68	31.24	23.92	46	-22.08
647.12	2.80	20.59	27.45	25.97	21.91	46	-24.09

Horizontal

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)
196.20	1.39	10.16	27.17	40.19	24.57	43.5	-18.93
294.15	1.87	13.62	26.74	35.19	23.94	46	-22.06
490.45	2.56	17.80	27.68	33.45	26.13	46	-19.87
647.12	2.80	20.59	27.45	26.32	22.26	46	-23.74

Highest channel: 107.9MHz

Vertical

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)
215.8	1.49	11.01	27.07	43.92	29.35	43.5	-14.15
323.9	1.98	14.76	26.91	35.75	25.58	46	-20.42
539.46	2.64	18.75	27.67	28.97	22.69	46	-23.31
755.17	3.07	21.77	27.09	25.43	23.18	46	-22.82

Horizontal

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)
215.80	1.49	11.01	27.07	42.19	27.62	43.5	-15.88
323.90	1.98	14.76	26.91	33.71	23.54	46	-22.46
539.46	2.64	18.75	27.67	29.15	22.87	46	-23.13
647.12	2.80	20.59	27.45	25.97	21.91	46	-24.09

TEST RESULTS: The unit does meet the FCC Part 15 C Section 15.239 requirements.

"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."



5.3.2 Occupied Bandwidth

Test Requirement: FCC Part15 C

Test Method: ANSI C63.4: 2003

Requirements: 15.239 (a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centred on the operating frequency. The 200 kHz band shall lie wholly on the frequency.

Receiver setup: RBW=10KHz, VBW=30KHz, Span=500KHz, Sweep time=auto.

Test Frequency: The lowest channel=88.1MHz
The middle channel=98.1MHz
The highest channel=107.9MHz

Transmit with modulation FM Transmitter modulation with signal of symphony.
Used maximum input audio level 399mVrms.

Limit: 200KHz

Method of measurement: 1>. A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken.
2>. FM Transmitter modulation with signal of symphony.
Used maximum input audio level 399mVrms.

Test data:

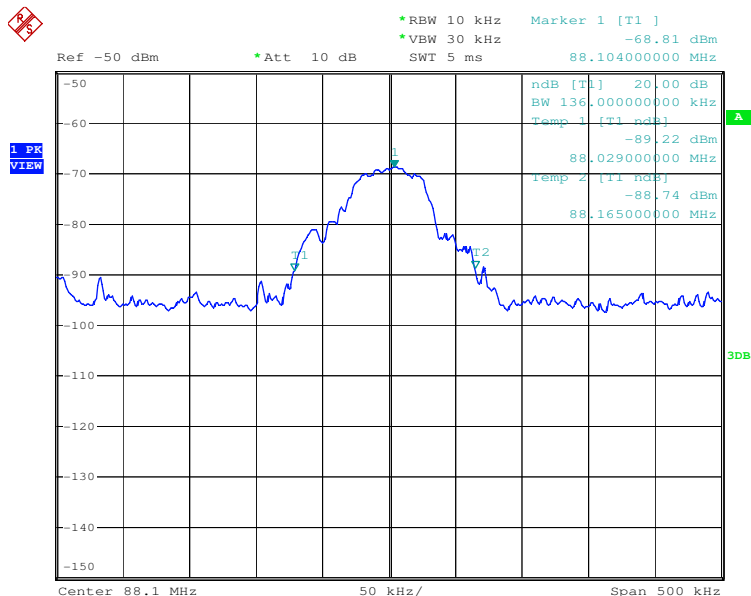
Channel Frequency (MHz)	20dB bandwidth (KHz)	26dB bandwidth (KHz)
88.1	136	156
98.1	134	142
107.9	134	142

The graph as below: represents the emissions take for this device.



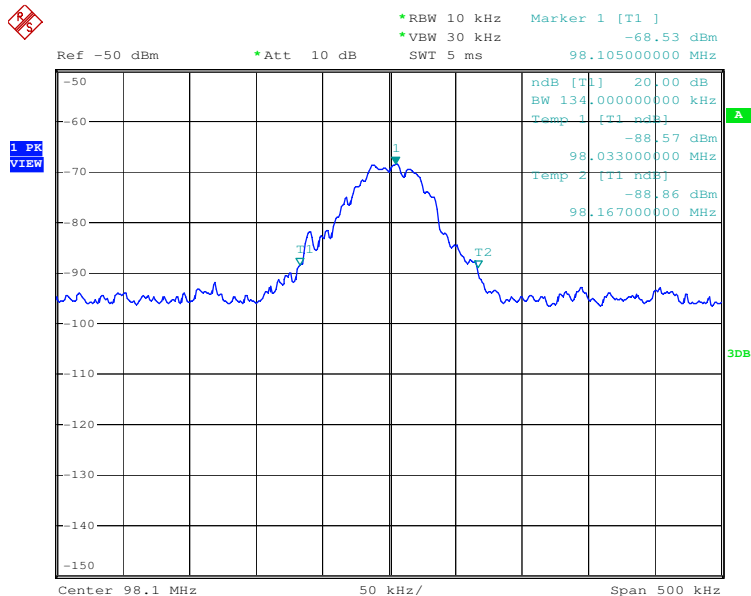
20dB Bandwidth

Lowest channel: 88.1MHz



Date: 22.JUL.2009 16:52:53

Middle channel: 98.1MHz

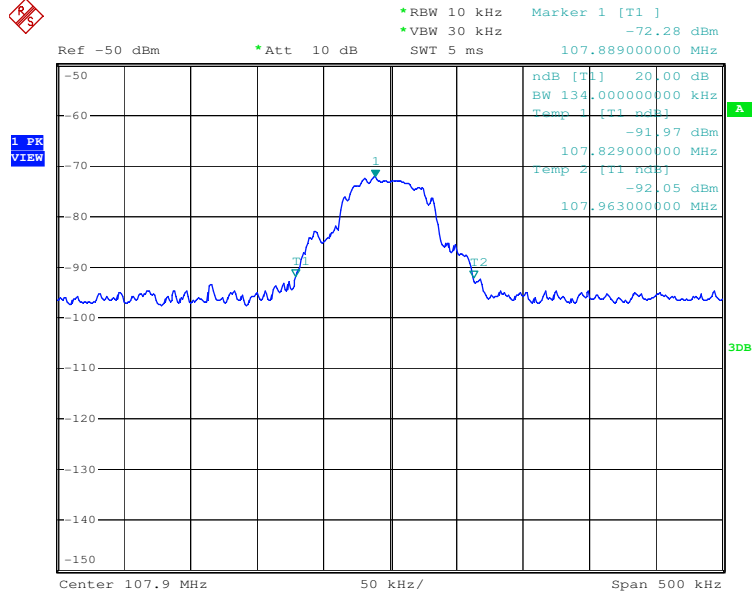


Date: 22.JUL.2009 16:56:56

"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."



Highest channel: 107.9MHz



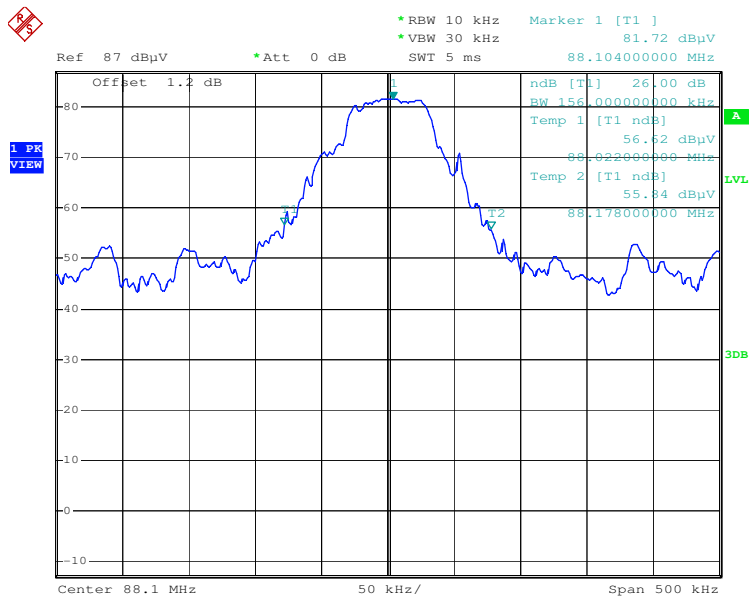
Date: 22.JUL.2009 17:00:34

"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."



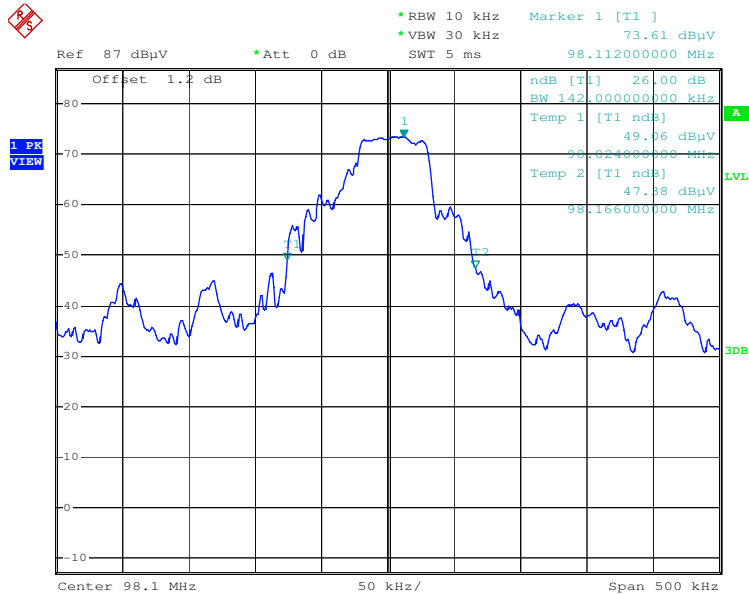
26dB Bandwidth

Lowest channel: 88.1MHz



Date: 29.JUL.2009 15:20:01

Middle channel: 98.1MHz

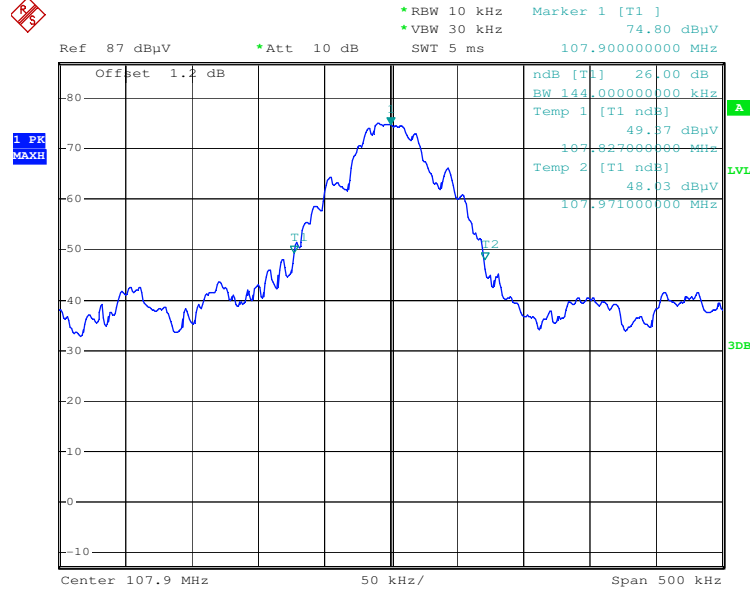


Date: 29.JUL.2009 15:21:11

"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."



Highest channel: 107.9MHz



Date: 29.JUL.2009 15:08:33

The results: The unit does meet the FCC Part 15C Section 15.239 requirements.

"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."