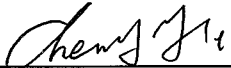


Produkte
Products

Prüfbericht - Nr.: 14027592 001		Seite 1 von 9 Page 1 of 9			
<i>Test Report No.:</i>					
Auftraggeber: <i>Client:</i>	GN Netcom A/S Lautrupbjerg 7 2750 Ballerup Denmark				
Gegenstand der Prüfung: <i>Test Item:</i>	Bluetooth Headset				
Bezeichnung: <i>Identification:</i>	OTE10	Serien-Nr.: <i>Serial No.:</i>	Engineering sample		
Wareneingangs-Nr.: <i>Receipt No.:</i>	00110531099-001	Eingangsdatum: <i>Date of Receipt:</i>	31.05.2011		
Prüfört: <i>Testing Location:</i>	TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou, 510650, P.R. China				
Prüfgrundlage: <i>Test Specification:</i>	FCC Part 15 Subpart B:2010				
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>				
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Guangdong) Ltd. No. 199 Kezhu Road, Guangzhou Science City, Guangzhou, Guangdong, 510663, P.R.China				
geprüft/ tested by:		kontrolliert/ reviewed by:			
08.08.2011	Ms.Cherry He Project Manager		08.08.2011		
			Mr. Liangdong Xie Project Manager		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>		
			Name/Stellung <i>Name/Position</i>		
			Unterschrift <i>Signature</i>		
Sonstiges/ Other Aspects:					
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Abkürzungen: P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet </td> <td style="width: 50%; vertical-align: top;"> Abbreviations: P(ass) = passed F(all) = failed N/A = not applicable N/T = not tested </td> </tr> </table>				Abkürzungen: P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations: P(ass) = passed F(all) = failed N/A = not applicable N/T = not tested
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Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Photographs of Test Set up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory
Guangzhou Auto Market,
Yuan Gang Section of Guangshan Road
Guangzhou 510650
P. R. China

2.2 List of Test and Measurement Instruments

List of Test and Measurement Equipment in TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Conducted Disturbances

<i>Kind of Equipment</i>	<i>Manufacturer</i>	<i>Type</i>	<i>S/N</i>	<i>Cal Due Date</i>
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100316	16 Mar 12
Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100114	16 Mar 12
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	100308	16 Mar 12
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100701	16 Mar 12
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100099	16 Mar 12
Current Probe	Rohde & Schwarz	EZ-17	100182	16 Mar 12
4-Wire ISN	Rohde & Schwarz	ENY 41	100152	16 Mar 12
Double 2-Wire ISN	Rohde & Schwarz	ENY 22	100153	16 Mar 12

Radiated Disturbances

<i>Kind of Equipment</i>	<i>Manufacturer</i>	<i>Type</i>	<i>S/N</i>	<i>Cal Due Date</i>
EMI Test Receiver	Rohde & Schwarz	ESCI	100216	16 Mar 12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	210	29 Jun 13
SAC	Albatross Projects GmbH	N/A	9460000.9	17 Jul 13

3 General Product Information

3.1 Product Function and Intended Use

The product is a Bluetooth wireless headset. The product is tested here mainly as a wired headset, which subjected to FCC Part 15 Subpart B. For testing related radio transmitter and receiver function, which subjected to FCC Part 15 Subpart C, please refer to test report no. 14026636 001.

3.2 Ratings and System Details

	AC/DC adaptor (SSA-5W-05 EU 050060F)	Bluetooth Headset (OTE10)
Rated Input:	100-240 VAC, 50/60 Hz, 0.2 A	5 VDC
Rated Output:	5 VDC, 600 mA	---
Protection Class:	II	III
Class:	B	

Refer to the Rating Label for further information.

3.3 Independent Operation Modes

The basic operation modes are:

1. Charging by adaptor
2. Computer headset
3. iPod music playing

For further information refer to User Manual.

3.4 Submitted Documents

Rating Label
User Manual
Circuit Diagram
PCB Layout
Material List

4 Test Results EMISSION

The product is classified as :

Class A	<input type="checkbox"/>
Class B	<input checked="" type="checkbox"/>

Standard		PASS	FAIL	N/A
FCC Part15 Subpart B, section 15.107	CONDUCTED EMISSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Part15 Subpart B, section 15.109	RADIATED EMISSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5 Labelling Requirements

According the FCC Part15 section15.19, a device subject to certification or verification shall be labelled as follows:

“This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

The device shall bear the statement in a conspicuous location on the device.

6 Information to User

According to FCC Part 15 section 15.21, the users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

“Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

Also, refer to FCC Part 15 section 15.105, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

“NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, maybe cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.”**

Appendix 1

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Kind of Equipment Under Test (EUT):	Bluetooth Headset
Type Designation:	OTE10
Manufacturer:	GN Netcom A/S

System Ratings	AC/DC adaptor (SSA-5W-05 EU 050060F)	Bluetooth Headset (OTE10)
Rated Input:	100-240 VAC, 50/60 Hz, 0.2 A	5 VDC
Rated Output:	5 VDC, 600 mA	---
Protection Class:	II	III
Class:	B	

Sample Number:	00110531099-001
-----------------------	-----------------

Test Laboratory	
<input type="checkbox"/> TÜV Rheinland Hong Kong Ltd. 8/F, Niche Centre, 14 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong	<input checked="" type="checkbox"/> TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road Guangzhou 510650 P. R. China

Notes:	---
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Date:	05/08/2011	 Signature:
Inspector:	Billy Yip	

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Test according to:			
Emission			
<input checked="" type="checkbox"/>	FCC Part 15 Subpart B	<input type="checkbox"/>	CISPR 11
<input type="checkbox"/>	FCC Part 18	<input type="checkbox"/>	CISPR 12
<input type="checkbox"/>	AS/NZS CISPR 11	<input type="checkbox"/>	CISPR 13
<input type="checkbox"/>	AS/NZS CISPR 13	<input type="checkbox"/>	CISPR 14-1
<input type="checkbox"/>	AS/NZS CISPR 14.1	<input type="checkbox"/>	CISPR 15
<input type="checkbox"/>	AS/NZS CISPR 15	<input type="checkbox"/>	CISPR 22
<input type="checkbox"/>	AS/NZS CISPR 22	* Due to the construction of this product, it fulfills the requirements of this standard without testing	
<input type="checkbox"/>	J55001 (H14)		
<input type="checkbox"/>	J55013 (H14)		
<input type="checkbox"/>	J55014-1 (H14)		
<input type="checkbox"/>	J55022 (H14)		

Summary of Test Items			
Test Items		Test Results	
		PASS	FAIL
Conducted Emission	0.15 – 30MHz	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission	30 – 1000MHz	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Emission	FCC Part 15 Subpart B				Results: PASS
Conducted Emission	150kHz – 30MHz				
Date of testing:	03/08/2011				
Port:	AC Mains	Ambient:	23 °C	52 % RH	
Voltage:	120 VAC				
Frequency:	60 Hz				
Operation mode:	Charging by adaptor	Artificial hand:	Not Applied		
Notes:	---				

Line: Live

Frequency (MHz)	Measured QP (dBuV)	QP Limit (dBuV)	Measured AV (dBuV)	AV Limit (dBuV)	Pass/Fail
0.321	20.3	59.7	---	---	Pass
0.546	15.1	56.0	---	---	Pass
3.255	11.8	56.0	---	---	Pass
9.658	14.5	60.0	---	---	Pass
14.438	11.2	60.0	---	---	Pass
0.339	---	---	11.3	49.2	Pass
0.546	---	---	8.1	46.0	Pass
0.911	---	---	8.0	46.0	Pass
29.333	---	---	9.9	50.0	Pass
		---		---	---
		---		---	---
		---		---	---

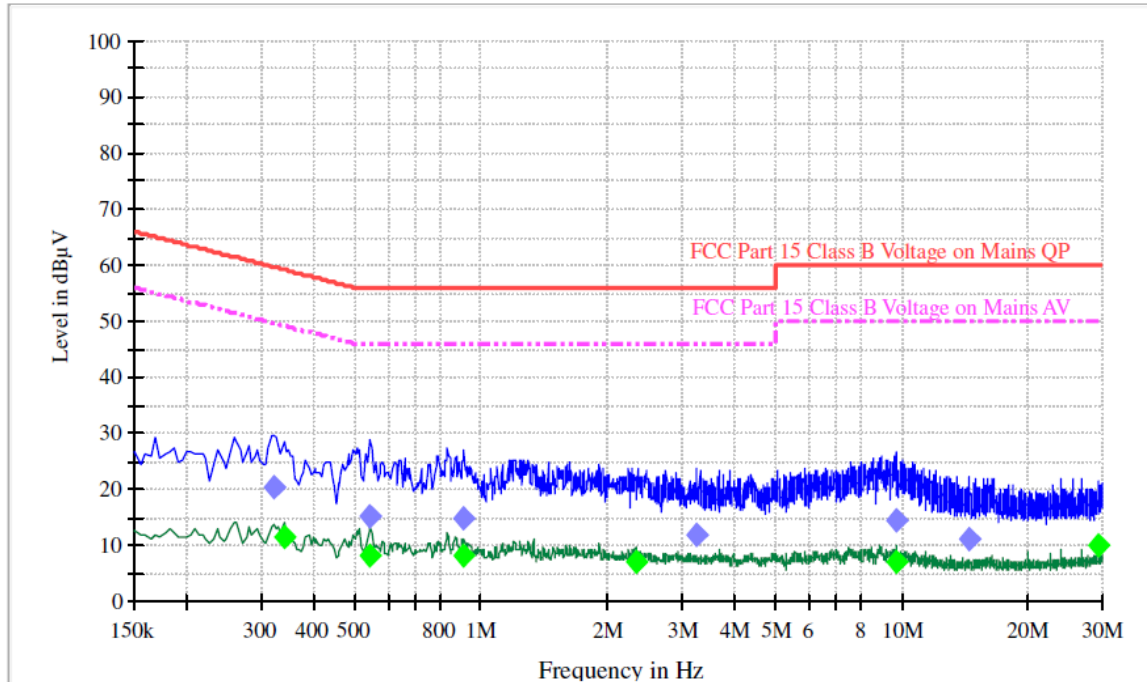
Line: Neutral

Frequency (MHz)	Measured QP (dBuV)	QP Limit (dBuV)	Measured AV (dBuV)	AV Limit (dBuV)	Pass/Fail
0.911	14.8	56.0	---	---	Pass
2.328	---	---	7.1	46.0	Pass
9.686	---	---	7.1	50.0	Pass
		---		---	---
		---		---	---
		---		---	---
		---		---	---
		---		---	---
		---		---	---
		---		---	---
		---		---	---

Remarks: ---

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Live and Neutral

Appendix 1

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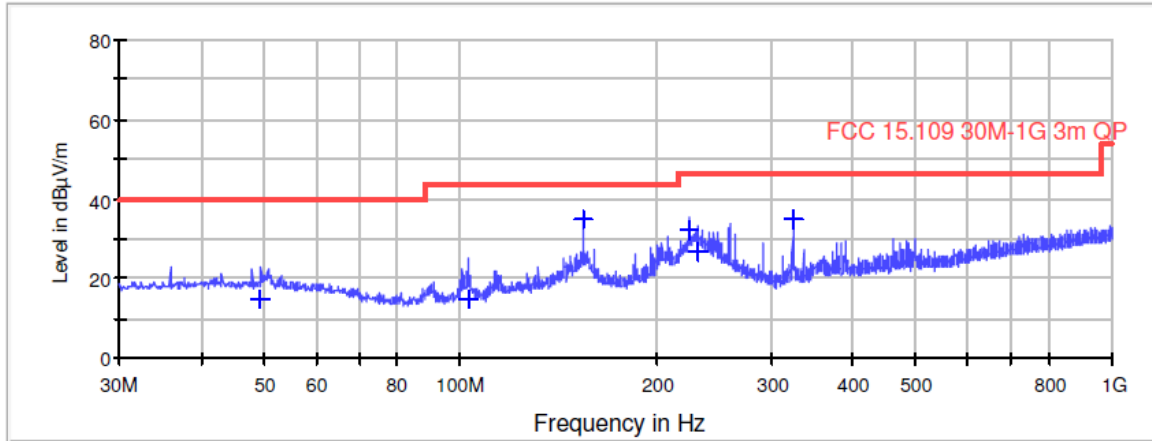
Emission	FCC Part 15 Subpart B			Results: PASS	
Radiated Emission	30MHz – 1000MHz				
Date of testing:	05/08/2011				
Test site:	SAC 3M	Ambient:	23 °C	50 % RH	
Voltage:	120 VAC				
Frequency:	60 Hz				
Operation mode:	1. Charging by adaptor 2. Computer headset 3. iPod playing				
Notes:	Only the worst case result from the worst case operating mode (Computer headset mode) was shown here for reference.				

Frequency (MHz)	Horizontal		Vertical		Pass/Fail
	Measured QP (dBuV/m)	QP Limit (dBuV/m)	Measured QP (dBuV/m)	QP Limit (dBuV/m)	
49.500	14.9	40.0	---	---	Pass
103.100	14.9	43.5	---	---	Pass
154.650	34.6	43.5	---	---	Pass
224.000	32.4	46.0	---	---	Pass
232.250	26.5	46.0	---	---	Pass
323.900	35.1	46.0	---	---	Pass
		---	---	---	---
		---	---	---	---
		---	---	---	---
		---	---	---	---
50.600	---	---	18.6	40.0	Pass
101.900	---	---	14.7	43.5	Pass
113.900	---	---	17.8	43.5	Pass
138.650	---	---	31.1	43.5	Pass
153.450	---	---	15.2	43.5	Pass
224.750	---	---	18.9	46.0	Pass
	---	---	---	---	---
	---	---	---	---	---
	---	---	---	---	---
	---	---	---	---	---

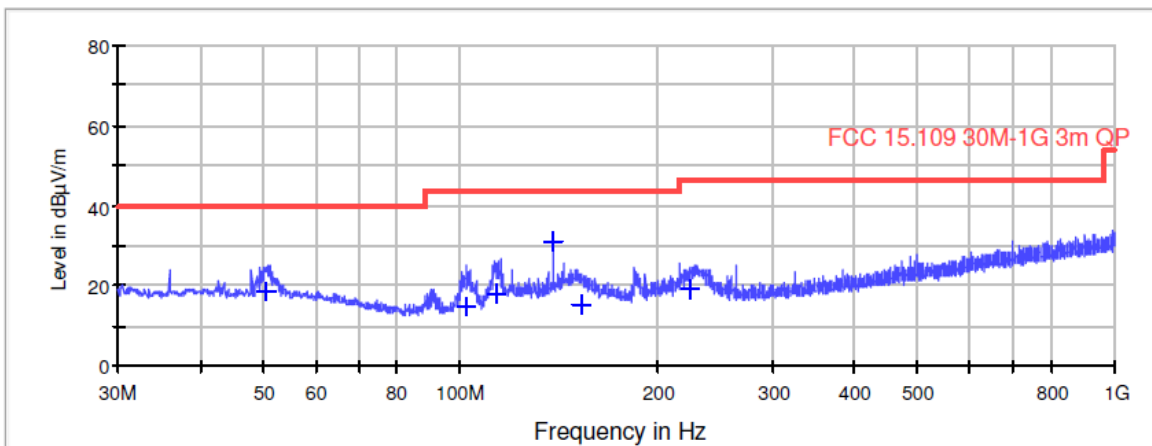
Remarks: ---

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Horizontal



Vertical

Appendix 2

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Test Setup for Conducted Disturbance Measurement



Test Setup for Radiated Disturbance Measurement