



Product Name : Nokia Bluetooth Stereo Headset

Model No. : HS-72W

FCC ID. : PYAHS-72W

Applicant : Nokia Corporation, Nokia Mobile Phones

Address : Joensuunkatu 7E P.O. Box 86, Salo Fin-24100 Finland

Date of Receipt : 2007/12/10

Issued Date : 2007/12/14

Report No. : 07C209R-RFUSP06V01

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.



Test Report Certification

Issued Date : 2007/12/14

Report No. : 07C209R-RFUSP06V01



Product Name : Nokia Bluetooth Stereo Headset

Applicant : Nokia Corporation, Nokia Mobile Phones

Address : Joensuunkatu 7E P.O. Box 86, Salo Fin-24100 Finland

Manufacturer : Fugang Electric (Kunshan) Co., Ltd.

Model No. : HS-72W

FCC ID. : PYAHS-72W

Rated Voltage : AC 120 V / 60 Hz

EUT Voltage : AC 120 V / 60 Hz

Trade Name : NOKIA

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2006

Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By :

(Sandy Chuang / Engineering Adm. Specialist)

Sandy Chuang

Tested By :

(Sheena Huang / Engineer)

Approved By

(Roy Wang / Manager)

Page: 2 of 42 Version:1.0



TABLE OF CONTENTS

Description		Page
1.	General Information	4
1.1.	EUT Description	4
1.2.	Operational Description	6
1.3.	Test Mode	7
1.4.	Summary of Test Results	8
1.5.	Tested System Details	8
1.6.	Configuration of tested System	8
1.7.	EUT Exercise Software	g
1.8.	Test Facility	10
2.	Peak Power Output	12
2.1.	Test Equipment	12
2.2.	Test Setup	12
2.3.	Limits	12
2.4.	Test Specification	12
2.5.	Test Result	13
3.	Radiated Emission	16
3.1.	Test Equipment	16
3.2.	Test Setup	16
3.3.	Limits	17
3.4.	Test Procedure	17
3.5.	Test Specification	17
3.6.	Test Result	18
3.7.	Test Photo	26
4.	Occupied Bandwidth	28
4.1.	Test Equipment	28
4.2.	Test Setup	28
4.3.	Limits	28
4.4.	Test Specification	28
4.5.	Test Result	29
Attachement.		32
	EUT Photograph	32



1. General Information

1.1. EUT Description

Product Name	Nokia Bluetooth Stereo Headset
Trade Name	NOKIA
Model No.	HS-72W
Frequency Range	2402~2480MHz
Channel Number	79
Type of Modulation	GFSK, π /4-DQPSK, 8-DPSK
Channel Control	Auto
Antenna Type	Monopole Antenna
Antenna Gain	2.9dBi
Hardware Version	B4.2 (V3R2)
Software Version	WK50-2
Mechanics Version	MPT5

Component	
Car Charger	NOKIA, DC-4 I/P: DC12V/24V O/P: 5.7V/890mA Cable Out: Non-Shielded, 2.0m
Power Adapter	NOKIA, AC-5U I/P: AC 100-240V, 50-60 Hz, 180mA O/P: DC 5.0V, 800mA Cable Out: Non-Shielded, 1.8m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 20	2422 MHz	Channel 40	2442 MHz	Channel 60	2462 MHz
Channel 01	2403 MHz	Channel 21	2423 MHz	Channel 41	2443 MHz	Channel 61	2463 MHz
Channel 02	2404 MHz	Channel 22	2424 MHz	Channel 42	2444 MHz	Channel 62	2464 MHz
Channel 03	2405 MHz	Channel 23	2425 MHz	Channel 43	2445 MHz	Channel 63	2465 MHz
Channel 04	2406 MHz	Channel 24	2426 MHz	Channel 44	2446 MHz	Channel 64	2466 MHz
Channel 05	2407 MHz	Channel 25	2427 MHz	Channel 45	2447 MHz	Channel 65	2467 MHz
Channel 06	2408 MHz	Channel 26	2428 MHz	Channel 46	2448 MHz	Channel 66	2468 MHz
Channel 07	2409 MHz	Channel 27	2429 MHz	Channel 47	2449 MHz	Channel 67	2469 MHz
Channel 08	2410 MHz	Channel 28	2430 MHz	Channel 48	2450 MHz	Channel 68	2470 MHz
Channel 09	2411 MHz	Channel 29	2431 MHz	Channel 49	2451 MHz	Channel 69	2471 MHz
Channel 10	2412 MHz	Channel 30	2432 MHz	Channel 50	2452 MHz	Channel 70	2472 MHz
Channel 11	2413 MHz	Channel 31	2433 MHz	Channel 51	2453 MHz	Channel 71	2473 MHz
Channel 12	2414 MHz	Channel 32	2434 MHz	Channel 52	2454 MHz	Channel 72	2474 MHz
Channel 13	2415 MHz	Channel 33	2435 MHz	Channel 53	2455 MHz	Channel 73	2475 MHz
Channel 14	2416 MHz	Channel 34	2436 MHz	Channel 54	2456 MHz	Channel 74	2476 MHz
Channel 15	2417 MHz	Channel 35	2437 MHz	Channel 55	2457 MHz	Channel 75	2477 MHz
Channel 16	2418 MHz	Channel 36	2438 MHz	Channel 56	2458 MHz	Channel 76	2478 MHz
Channel 17	2419 MHz	Channel 37	2439 MHz	Channel 57	2459 MHz	Channel 77	2479 MHz
Channel 18	2420 MHz	Channel 38	2440 MHz	Channel 58	2460 MHz	Channel 78	2480 MHz
Channel 19	2421 MHz	Channel 39	2441 MHz	Channel 59	2461 MHz		

Page: 4 of 42 Version:1.0



The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 79 channels and over the minimum number of hopping channels (75 channels)

Pseudorandom Frequency Hopping Sequence that describes how the hopping sequence is generated. Provide an example of the hopping sequence channels, in order to demonstrate that the sequence meets the requirement specified in the definition of a frequency hopping spread spectrum system. In Bluetooth, interference from other Bluetooth piconets is minimal, because each piconet uses its own pseudo-random frequency-hopping pattern. If two co-located piconets are active the probability of a collision is 1/79. The probability of a collision increases linearly with the number of co-located active piconets.

Equal Hopping Frequency Use that describes how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

- 1. This device is a Nokia Bluetooth Stereo Headset included a 2.4GHz receiving function, and 2.4GHz transmitting function.
- 2. Difference compared with the original report is changed software power table.
- 3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
- 4. Regards to the frequency band operation; the lowest \ middle and highest frequency of channel were selected to perform the test, and then shown on this report.
- 5. The lowest and highest data rates are tested. Only worst case is shown in the report.
- 6. This device is a composite device in accordance with Part 15 regulations. The function normal was measured and made a test report that the report number is 078119R-RFUSP01V02 under Declaration of Conformity.



1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-Test Mode			
EMI	Mode 1: Transmit		
Final Test Mod	Final Test Mode		
EMI	Mode 1: Transmit		

Page: 7 of 42 Version:1.0



1.4. Summary of Test Results

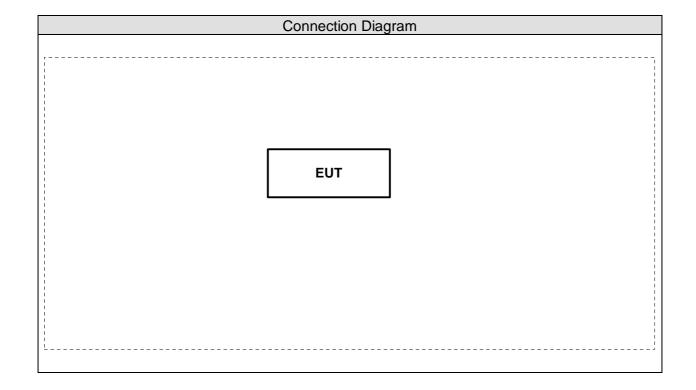
The EUT has been tested according to the following specifications:					
	APPLIED STANDARD: FCC Part 15, Subpart C: 2006				
STANDARD SECTION	TEST ITEM AND LIMIT RESULT				
15.247(a)	Occupied Bandwidth Limit: 1MHz	PASS			
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS			
15.247(d)	Transmitter Radiated Emissions Limit: Table 15.209	PASS			

1.5. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

N/A

1.6. Configuration of tested System



Page: 8 of 42 Version:1.0



1.7. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Verify the model operation.
4	Repeat the above procedure (3) to (4).



1.8. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Band Edge (FHSS)	25 - 75	50
Barometric pressure (mbar)	Dand Edge (11100)	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Channel Of Number (FHSS)	25 - 75	53
Barometric pressure (mbar)	Chamber of Number (F1133)	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Channel Separation (FHSS)	25 - 75	58
Barometric pressure (mbar)	Charmer Separation (11133)	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Dwell Time (FHSS)	25 - 75	58
Barometric pressure (mbar)	Dwell fillie (11100)	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Occupied Bandwidth (FHSS)	25 - 75	59
Barometric pressure (mbar)	Occupied Bandwidth (11100)	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	25
Humidity (%RH)	Peak Power Output (FHSS)	25 - 75	58
Barometric pressure (mbar)	reak rower Output (ri 133)	860 - 1060	950-1000
Temperature (°C)	FOC DART 45 C 45 247	15 - 35	25
Humidity (%RH)	FCC PART 15 C 15.247	25 - 75	65
Barometric pressure (mbar)	Radiated Emission (FHSS)	860 - 1060	950-1000



Site Description:

January 24, 2005 File on

Federal Communications Commission

Laboratory Division

7435 Oakland Mills Road Columbia, MD 21046

Registration Number: 365520

Accredited by CNLA

Accreditation Number: 1313

Effective through: December 31, 2007

Accredited by NVLAP

NVLAP Lab Code: 200347-0

Effective through: September 30, 2008

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,

Chiung-Lin, Hsin-Chu County,

Taiwan, R.O.C.

TEL: 886-3-592-8858 / FAX: 886-3-592-8859

E-Mail: service@quietek.com











2. Peak Power Output

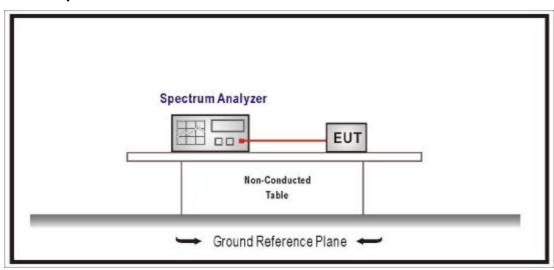
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2007
2	No.1 OATS			Sep., 2007

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watt.

2.4. Test Specification

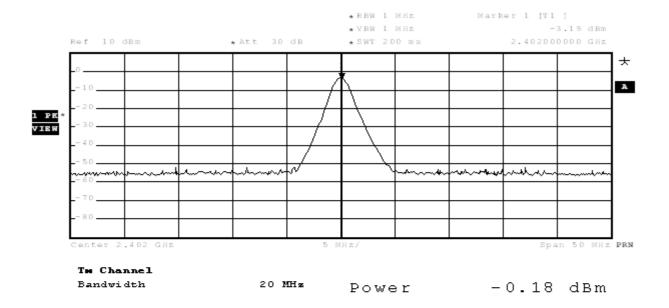
According to FCC Part 15 Subpart C Paragraph 15.247: 2006



2.5. Test Result

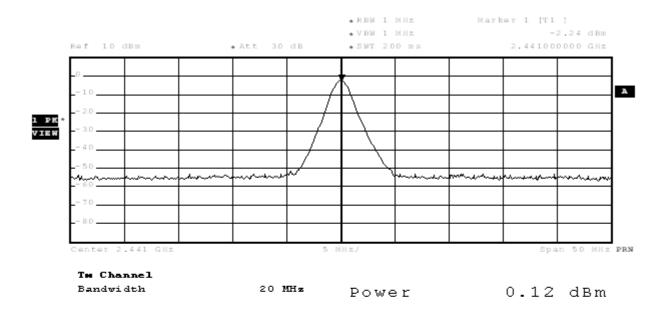
Product	Nokia Bluetooth Stereo Headset			
Test Item	Peak Power Output			
Test Mode	Mode 1: Transmit			
Date of Test	2007/12/07	Test Site	No.1 OATS	

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402.00	-0.18	1Watt = 30 dBm	Pass
39	2441.00	0.12	1Watt= 30 dBm	Pass
78	2480.00	0.34	1Watt= 30 dBm	Pass



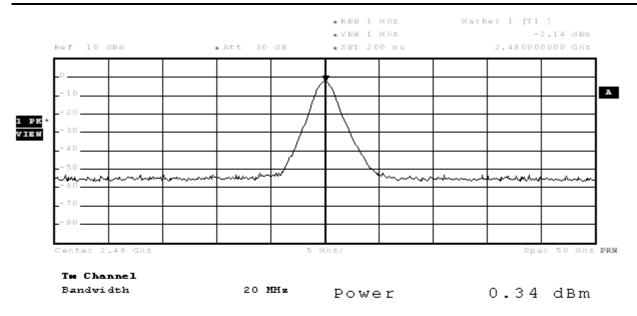
Date: 7.DEC.2007 13:35:40





Date: 7.DEC.2007 13:33:13





Date: 7.DEC.2007 13:31:45



3. Radiated Emission

3.1. Test Equipment

The following test equipment are used during the test:

Radiated Emission / Site1

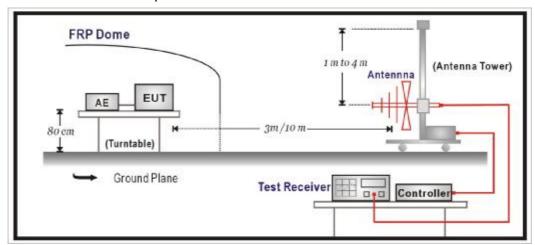
Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2007/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2007/03/15
Pre-Amplifier	HP	8449B	3008A01123	2007/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R&S	FSP40	100005	2007/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2007/11/24
Test Receiver	R&S	ESCS 30	825442/017	2007/02/13

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

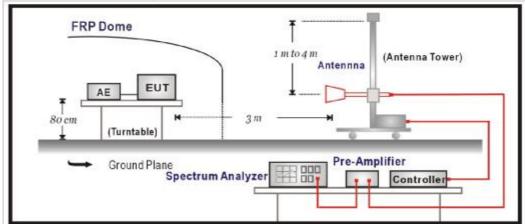
2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



Page: 16 of 42 Version:1.0



3.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits							
Frequency MHz	uV/m	dBuV/m					
30-88	100	40					
88-216	150	43.5					
216-960	200	46					
Above 960	500	54					

Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

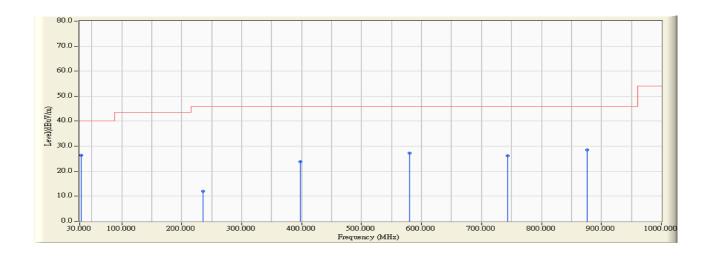
Page: 17 of 42 Version:1.0



3.6. Test Result

30MHz - 1GHz Spurious:

Site : Site 1	Time : 2007/12/13 - 14:52
Limit : FCC_CLASS_B_03M_QP	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_30-1G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX

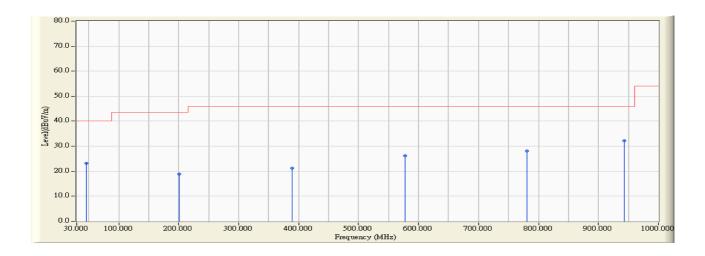


		Frequency	Correct Factor	Reading Level	Measure Level	Margin (dB)	Limit	Detector Type
		(MHz)	(dB)	(dBm)	(dBm/m)		(dBm/m)	
1	*	31.944	3.403	22.893	26.296	-13.704	40.000	PEAK
2		236.052	-10.817	22.767	11.950	-34.050	46.000	PEAK
3		397.395	1.158	22.551	23.709	-22.291	46.000	PEAK
4		580.120	5.369	21.910	27.279	-18.721	46.000	PEAK
5		743.407	4.418	21.796	26.214	-19.786	46.000	PEAK
6		875.591	5.426	23.200	28.626	-17.374	46.000	PEAK

- 1. All Reading Levels are Quasi-Peak value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



Site : Site 1	Time : 2007/12/13 - 15:18
Limit : FCC_CLASS_B_03M_QP	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_30-1G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : TX



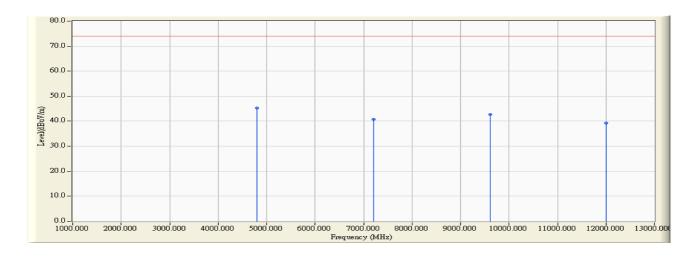
		Frequency	Correct Factor	Reading Level	Measure Level	Margin (dB)	Limit (dBm/m)	Detector Type
		(MHz)	(dB)	(dBm)	(dBm/m)			
1		45.551	-0.370	23.513	23.143	-16.857	40.000	PEAK
2		201.062	-2.930	21.733	18.803	-24.697	43.500	PEAK
3		389.619	-0.530	21.800	21.270	-24.730	46.000	PEAK
4		578.176	4.216	21.885	26.101	-19.899	46.000	PEAK
5		780.341	5.743	22.412	28.155	-17.845	46.000	PEAK
6	*	943.627	8.491	23.783	32.275	-13.725	46.000	PEAK

- 1. All Reading Levels are Quasi-Peak value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



Harmonic & Spurious:

Site : Site 1	Time : 2007/12/12 - 14:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2402

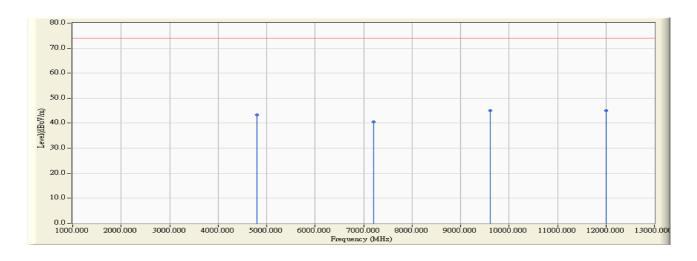


		Frequency	Correct	Reading	Measure	Margin (dB)	Peak	Average	Detector
		(MHz)	Factor (dB)	Level	Level		Limit	Limit	Туре
				(dBuV)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
1	*	4804.590	2.570	42.660	45.230	-28.770	74.000	54.000	PEAK
2		7206.170	6.841	33.820	40.661	-33.339	74.000	54.000	PEAK
3		9607.940	11.263	31.520	42.783	-31.217	74.000	54.000	PEAK
4		12009.720	8.689	30.610	39.299	-34.701	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. " * ", means this data is the weakness signal, which cannot be tested by instrument.



Site : Site 1	Time : 2007/12/12 - 14:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2402

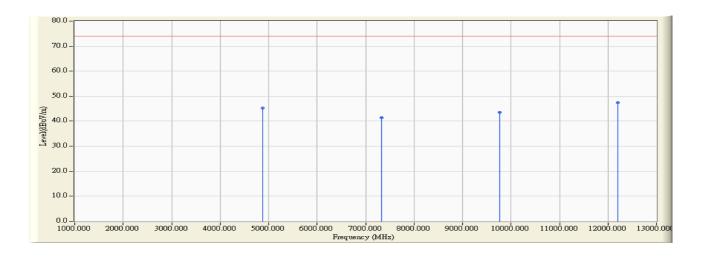


		Frequency	Correct	Reading	Measure	Margin (dB)	Peak	Average	Detector
		(MHz)	Factor (dB)	Level	Level		Limit	Limit	Type
				(dBuV)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
1		4804.590	0.788	42.540	43.328	-30.672	74.000	54.000	PEAK
2		7206.170	6.785	33.710	40.496	-33.504	74.000	54.000	PEAK
3		9607.940	13.250	31.700	44.950	-29.050	74.000	54.000	PEAK
4	*	12009.720	14.283	30.680	44.963	-29.037	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. "*", means this data is the weakness signal, which cannot be tested by instrument.



Site : Site 1	Time : 2007/12/12 - 14:38
Limit: FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2441

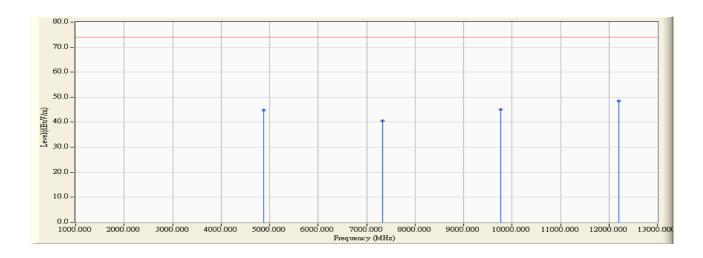


		Frequency	Correct	Reading	Measure	Margin	Limit	Peak	Detector Type
		(MHz)	Factor (dB)	Level	Level	(dB)	(dBuV/m)	Limit	
				(dBuV)	(dBuV/m)			(dBuV/m)	
1		4882.220	3.046	42.290	45.337	-28.663	74.000	54.000	PEAK
2		7323.220	6.960	34.340	41.300	-32.700	74.000	54.000	PEAK
3		9764.220	11.572	31.880	43.453	-30.547	74.000	54.000	PEAK
4	*	12205.220	15.583	31.750	47.333	-26.667	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. "*", means this data is the weakness signal, which cannot be tested by instrument.



Site : Site 1	Time : 2007/12/12 - 14:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2441



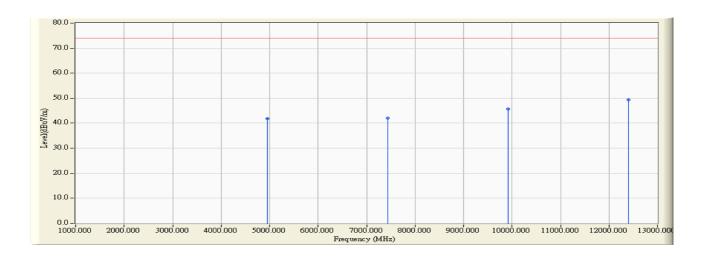
		Frequency	Correct	Reading	Measure	Margin (dB)	Limit	Peak	Detector
		(MHz)	Factor (dB)	Level	Level		(dBuV/m)	Limit	Туре
				(dBuV)	(dBuV/m)			(dBuV/m)	
1		4882.220	1.407	43.330	44.738	-29.262	74.000	54.000	PEAK
2		7323.220	6.960	33.560	40.520	-33.480	74.000	54.000	PEAK
3		9764.220	13.572	31.490	45.063	-28.937	74.000	54.000	PEAK
4	*	12205.220	17.065	31.430	48.495	-25.505	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. "*", means this data is the weakness signal, which cannot be tested by instrument.

Version:1.0



Site : Site 1	Time: 2007/12/12 - 14:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2480

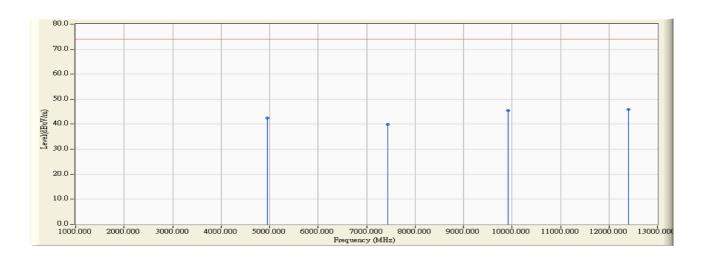


		Frequency	Correct	Reading	Measure	Margin (dB)	Limit	Peak	Detector
		(MHz)	Factor (dB)	Level	Level		(dBuV/m)	Limit	Туре
				(dBuV)	(dBuV/m)			(dBuV/m)	
1		4960.830	3.231	38.570	41.800	-32.200	74.000	54.000	PEAK
2		7440.230	6.934	35.200	42.135	-31.865	74.000	54.000	PEAK
3		9920.680	12.489	33.290	45.780	-28.220	74.000	54.000	PEAK
4	*	12400.120	18.129	31.250	49.379	-24.621	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. "*", means this data is the weakness signal, which cannot be tested by instrument.



Site : Site 1	Time : 2007/12/12 - 15:05
Limit: FCC_SpartC_15.247_H_03M_PK	Margin : 0
EUT : Nokia Bluetooth Stereo Headset	Probe : CB3_FCC_1-18G(2007) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2480



		Frequency	Correct	Reading	Measure	Margin (dB)	Limit	Peak	Detector
		(MHz)	Factor (dB)	Level	Level		(dBuV/m)	Limit	Type
				(dBuV)	(dBuV/m)			(dBuV/m)	
1		4960.560	1.750	40.660	42.409	-31.591	74.000	54.000	PEAK
2		7440.120	6.935	32.930	39.865	-34.135	74.000	54.000	PEAK
3		9920.453	13.284	32.210	45.493	-28.507	74.000	54.000	PEAK
4	*	12400.120	13.621	32.280	45.901	-28.099	74.000	54.000	PEAK
5		14412.000	*	*	*	*	74.000	54.000	PEAK
6		16814.000	*	*	*	*	74.000	54.000	PEAK
7		19216.000	*	*	*	*	74.000	54.000	PEAK
8		21618.000	*	*	*	*	74.000	54.000	PEAK
9		24020.000	*	*	*	*	74.000	54.000	PEAK

- 1. All Readings below 1GHz are Peak, above are performed with peak and/or average measurements as necessary.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 5. "*", means this data is the weakness signal, which cannot be tested by instrument.



4. Occupied Bandwidth

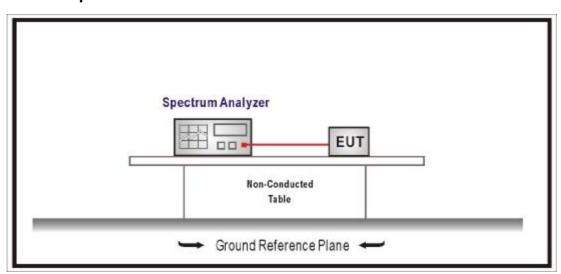
4.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2007

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

For frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

Page: 28 of 42 Version:1.0

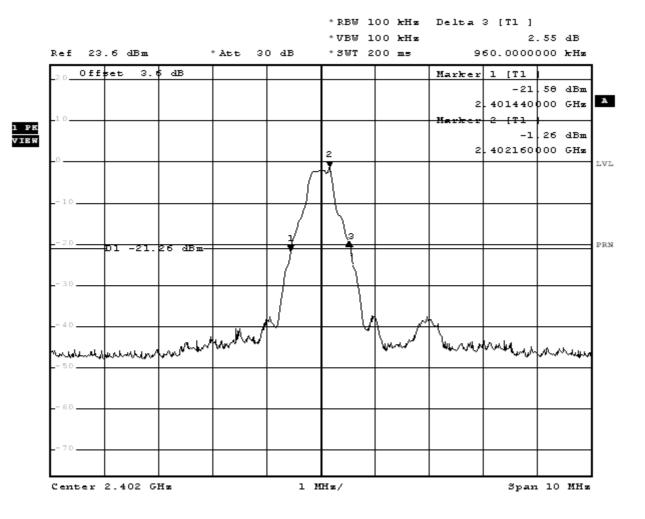


4.5. Test Result

Product	Nokia Bluetooth Stereo Headset				
Test Item	Occupied Bandwidth				
Test Mode	Mode 1: Transmit				
Date of Test	2007/12/10	Test Site	No.1 OATS		

Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (MHz)	Result
00	2402.00	960	<1	Pass
39	2441.00	960	<1	Pass
78	2480.00	960	<1	Pass

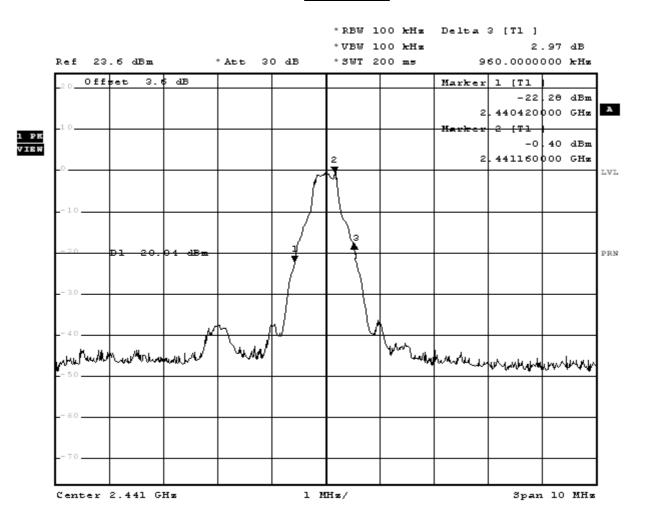
Channel 00



Date: 10.DEC.2007 11:50:34



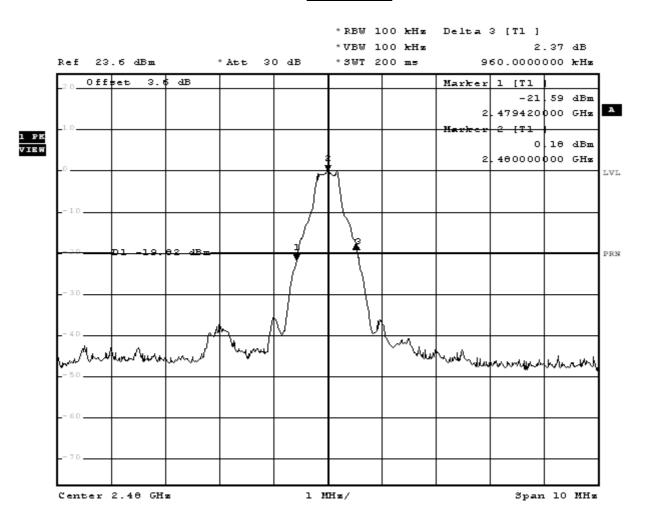
Channel 39



Date: 10.DEC.2007 11:59:57



Channel 78



Date: 10.DEC.2007 12:03:26