Class B Certification Application

Under Part 15, Subpart C (15.209)

EUT: Wireless Earphone

MODEL: SD-200WE

FCC ID: P2ISD-200WE-1 SRT REPORT # FID1I028-1

PREPARED FOR:

SUPER DEVICE MICROELECTRONICS CO., LTD.

3F, NO. 11, ALLEY 3, LANE 182, SEC. 2, WEN-HUS ROAD, PANCHIAO CITY, TAIPEI SHIEN, TAIWAN, R.O.C.



SUPER DEVICE MICROELECTRONICS CO., LTD. 3F, NO. 11, ALLEY 3, LANE 182, SEC. 2, WEN-HUS ROAD. PANCHIAO CITY,

TAIPEI SHIEN, TAIWAN, R.O.C.

TEL: 886-2-82511100

FAX: 886-2-82511150

Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046

To whom it may concern:

This is to serve as proper written authorization that Spectrum Research and Testing Laboratory, Inc., 15200, Shady Grove Rd., Rockville, MD. 20850, will act as our representative in all matters relating to FCC applications for equipment approval. This includes the signing of all related documents, the transmitting of required fees, and receiving correspondence and notifications from the FCC. All acts performed by Spectrum Research and Testing Laboratory, Inc., especially modifications to our equipment under testing will be carried out on our behalf.

Meantime, the applicant certifies that in the case of an individual applicant (e.g., corporation), no party to the applicant is subject to a denial of federal benefits, that includes FCC benial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S.C. 862. For a definition of a " party " for these purposes see 47 C.F.R. 1.2002 (b).

If you have any questions regarding our applications for equipment approval, please contact Spectrum Research and Testing Laboratory, Inc. by calling (301) 670-2818.

Respectfully,

DATE : Sep. 11, 200

Effective Dates:

From Sep. 11, >00 / to Sep. 11, >00>



PAGE: 2 OF 52

EMI TESTING REPORT

EUT: Wireless Earphone

MODEL : SD-200WE

FCC ID : P2ISD-200WE-1

PREPARED FOR:

SUPER DEVICE MICROELECTRONICS CO., LTD. 3F, NO.11, ALLEY 3, LANE 182, SEC. 2, WEN-HUS ROAD, PANCHIAO CITY, TAIPEI SHIEN, TAIWAN, R.O.C.

PREPARED BY:

SPECTRUM RESEARCH & TESTING LABORATORY INC.

NO. 101-10, LING 8, SHAN-TONG LI CHUNG-LI CITY,

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PAGE: 3 OF 52



1.	TABLE OF CONTENTS TEST REPORT CERTIFICATION	5
2.	TEST STATEMENT	
	2.1 TEST STATEMENT	6
	2.2 DEPARTURE FROM DOCUMENT POLICIES,	
	PROCEDURE OR SPECIFICATIONS, TEST STATEMENT	6
3.	EUT MODIFICATIONS	7-8
4.	CONDUCTED POWER LINE TEST	
	4.1 TEST EQUIPMENT	9
	4.2 TEST PROCEDURE	9
	4.3 TEST SETUP	10
	4.4 CONFIGURATION OF THE EUT	11-12
	4.5 EUT OPERATING CONDITION	13
	4 . 6 EMISSION LIMITS	13
	4.7 CONDUCTED EMISSION TEST RESULTS	14
5.	RADIATED EMISSION TEST	
	5.1 TEST EQUIPMENT	15
	5.2 TEST PROCEDURE	16
	5.3 TEST SETUP.	16-17
	5.4 CONFIGURATION OF THE EUT	18
	5.5 EUT OPERATING CONDITION	18
	5 . 6 EMISSION LIMITS	18
	5.7 RADIATED EMISSION TEST RESULTS	19-27
6.	BANDWIDTH	
	6 . 1 LIMIT	28
	6 . 2 RESULTS	28-33
7.	CHANGE THE VOLTAGE +/-15% TEST	34-39
8.	CHANGE THE TEMPERATURE TEST	40-51

9. VERIFY CHANNELS AND FREQUENCIES......

10. PHOTOS OF TESTING.....

11. FCC ABEL.....



PAGE: 4 OF 52

52

74

53-73

1. TEST REPORT CERTIFICATION

APPLICANT: SUPER DEVICE MICROELECTRONICS CO., LTD.

ADDRESS : 3F, NO. 11, ALLEY 3, LANE 182, SEC. 2,

WEN-HUS ROAD, PANCHIAO CITY,

TAIPEI SHIEN, TAIWAN, R.O.C.

EUT DESCRIPTION : Wireless Earphone

(A) POWER SUPPLY : BASE FROM BATTERY

HANDSET FROM BATTERY

(B) MODEL : SD-200WE

(C) FCC ID : <u>P2ISD-200WE1</u>

FINAL TEST DATE : 11/09/2001

MEASUREMENT PROCEDURE USED :

- * PART 15 SUBPART C (15.209) OF FCC RULES AND REGULATIONS (47 CFR PART 15)
- * ANSI C63.4 1992
- * TEST PROCEDURE AND DATA ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS.

We hereby certify that:

The measurements contained in this report were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable.

TESTING	ENGINEER	:	 DAIE	11/09/2001

Jack Wang

Jack Wary

SUPERVISOR : ______ DAΓΕ <u>11/09/2001</u>

Sunyou Chen

APPROVED BY : _______DAFE ____11/09/2001



PAGE: 5 OF 52

2. TEST STATEMENT

2.1 TEST STATEMENT

1. This statement is to explain the test condition of this project. The EUT was the test condition of each test item.

FCC ID : <u>P2ISD-200WE-1</u>

- 2. The data was shown in this report reflects the worst case data for the condition as the summary of test result.
- 3. EUT conditions.

Frequency range : Base \Rightarrow 46.610MHz \sim 46.970MHz Handset \Rightarrow 49.670MHz \sim 49.970MHz

Support channel: 10 channel

M	ode	Channel	Mo	de	Channel
Mode 1	Charge		Mode 5	Handset	1
Mode 2	Base	1	Mode 6	Handset	6
Mode 3	Base	6	Mode 7	Handset	10
Mode 4	Base	10	Mode 8	MP3	1
			Mode 9	MP3	8

- 4. Antenna Statement: The antenna that can be rolled is semi-fixed in the left of the Base(The antenna is unchangeable by user). The antenna of handset is fixed.
- 5. NVLAP logo is to be approved by management (it is according to NVLAP requirement if it need) before use.

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS, THE STATEMNT

1.	Did	have	Э							
	Any	dep	oarture	from	documen	policies	&	procedures	or	from
	speci	ficati	ons.							
	Yes				, No _			<u> </u>		
	If ye	es ,	the	descripti	on as t	elow.				

- 2. The certificate and report shall not be reproduced except in full, without the written approval of SRT laboratory.
- 3. The report must not be used by the client to claim product endorsement by NVLAP or any agency the government.
- 4. This product is a test sample that was shown as the photos of this test report only.
- 5. The effect that the results relate only to the items tested.

PAGE: 6 OF 52

NV LAD

Approved

3. EUT MODIFICATIONS

No modifications by SRT lab.



PAGE: 7 OF 52



SUPER DEVICE MICROELECTRONICS CO., LTD. 3F, NO. 11, ALLEY 3, LANE 182, SEC. 2, WEN-HUS ROAD, PANCHIAO CITY,

TAIPEI SHIEN TAIWAN, R.O.C. TEL: 886-2-8: 100 FAX:

FAX: 886-2-82511150

Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046

To whom it may concern:

This is to serve as proper notice that our company agrees to make all modifications to FCC ID: P2ISD-200 WE-1 as listed in section 3.0 of modification to submitted by Spectrum Research and Testing Laboratory, Inc.

Respectfully,

Effective Dates:

From Sep. 11, >00/ to Sep. 11, >00>



PAGE: 8 OF 52

4. CONDUCTED POWER LINE TEST

4.1 TEST EQUIPMENT

The following test equipment were used during the conducted power line test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL# SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
EMI TEST	9 KHz TO 30	ROHDE &	ESHS30/	MARCH 2001	1Y	
RECEIVER	MHz	SCHWARZ	826003/008	R & S		
EMI TEST	9 KHz TO 2750	ROHDE &	ESCS30/	JULY 2001	1Y	V
RECEIVER	MHz	SCHWARZ	830245/012	ETC		V
LISN	50 uH, 50 ohm	SOLAR	9252-50-	JULY 2001	1Y	
		ELECTRONICS	R-24-BNC/	ETC		$\sqrt{}$
			951315			
LISN	50uH, 50 ohm	SOLAR	9252-50-	JULY 2001	1Y	
		ELECTRONICS	R-24-BNC/	ETC		$\sqrt{}$
			951318			
SIGNAL	9 KHz TO 1080	ROHDE &	SMY01/	MARCH 2001	1Y	V
GENERATOR	MHz	SCHWARZ	841104/019	ETC		V
POWER	50 TO 300 VAC	AFC	AFC-2KBB/	APRIL 2001	1Y	2/
CONVERTER	47 TO 63/50/60Hz		F100030030	SRT		V

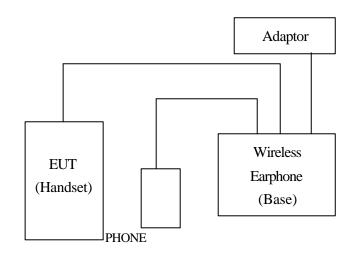
4.2 TEST PROCEDURE

The EUT was tested according to ANSI C63.4 - 1992. The frequency spectrum from <u>0.45</u> MHz to <u>30</u> MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 1992. Cables and peripherals were moved to find the maximum emission levels for each frequency.

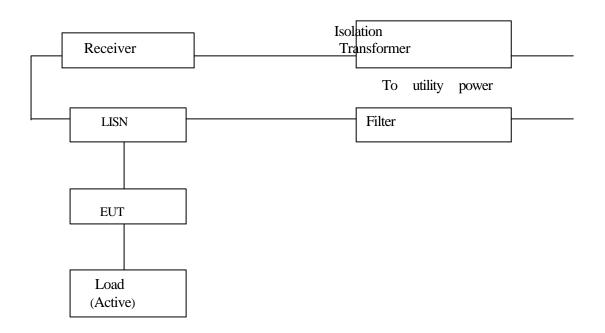


PAGE: 9 OF 52

4.3 TEST SETUP



FCC ID: P2ISD-200WE-1





Approved

PAGE: 10 OF 52

4.4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

1. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
Wireless Earphone	SUPER DEVICE MICROELECTRONICS CO., LTD.	SD-200WE	P2ISD-200WE1

2. INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
N/A			

PAGE: 11 OF 52

3. HERIPHERALS

DEVICE	MANUFAC TURER	MODEL # SERIAL #	FCCID / DoC	CABLE
ADAPTOR	YNG YUH	5100	N/A	1.5m unshielded power cord
MOBILE PHONE	MOTOROLA	V8088	N/A	1.8m unshielded data cable
MP3	CMC	SW00060304 -97BJ	DoC	N/A
Wireless Earphone (Base)	SUPER DEVICE MICROELECTRONICS CO., LTD.	SD-200WE	P2ISD-200WE	N/A

REMARK:

1. Cable - S1 : Single point shielding.

S2 : 360 ° shielding.

S3 : Double point shielding

2. Cables - All 1m or greater in length - bundled according

to regulations.

PAGE: 12 OF 52



4.5 EUT OPERATING CONDITION

Operating condition is according to ANSI C63.4 - 1992.

- 1. EUT power on.
- 2. Frequency Range: 49.670MHz ~ 49.970MHz

4.6 CONDUCTED POWER LINE EMISSION LIMITS

PAGE: 13 OF 52

FREQUENCY RANGE (M Hz)	CLASS A	CLASS B
0 . 45 - 1.705	60.0dBµV	48.0dBµV
1.705 - 30	69.5dBμV	48.0dBμV

NOTE: In the above table, the tighter limit applies at the band edges.



5. RADIATED EMISSION TEST

5.1 TEST EQUIPMENT

The following test equipment were used during the radiated emission test :

EQIPMENT /	SPECIFICA-	MANUFACTUR	MODEL # /	DATE OF CAL.	DUE	FINAL
FACILITIES	TIONS	- ER	SERIAL #	& CAL. CENTER	DATE	TEST
TEST	9 KHz TO	R & S	ESCS30/	JULY 2001	1Y	
RECEIVER	2.75 MHz		830245/012	ETC		
TEST	20 MHz TO	R & S	ESVS30/	JUNE 2001	1 Y	$\sqrt{}$
RECEIVER	1000 MHz		841977/003	ETC		
SPECTRUM	100 Hz TO	HP	8568B/	AUG. 2001	1Y	
ANALYZER	1500 MHz		3001A04931	ETC		
SPECTRUM	9 KHz TO	HP	8593E/	MARCH 2001	1 Y	
ANALYZER	22 GHz		3322A00670	ETC		
SIGNAL	9 KHz TO	ROHDE &	SMY01/	MARCH 2001	1 Y	$\sqrt{}$
GENERATOR	1080 MHz	SCHWARZ	841104/019	ETC		
DIPOLE	28 MHz TO	EMCO	3121C/	FEB. 2001	1Y	
ANTENNA	1000 MHz		9003-534	SRT		
DIPOLE	28 MHz TO	EMCO	3121C/	FEB. 2001	1 Y	
ANTENNA	1000 MHz		9611-1239	SRT		
BI-LOG	30 MHz TO	SCHAFFNER-	CBL6141A/	JULY 2001	1 Y	$\sqrt{}$
ANTENNA	2 GHz	CHASE	4181	ETC		
BI-LOG	26 MHz TO	EMCO	3143/	SEP. 2001	1Y	
ANTENNA	1100 MHz		9509-1152	ITRI		
PRE-AMPLIFIER	0.1 MHz TO	HP	8447D/	MARCH 2001	1 Y	
	1300 MHz		2944A08402	SRT		
PRE-AMPLIFIER	0.1 MHz TO	HP	8447D/	JULY 2001	1Y	
	1300 MHz		2944A06412	ETC		
HORN	1 GHz TO	EMCO	3115/	JAN. 2001	1Y	
ANTENNA	18 GHz		9012-3619	ETC		



PAGE: 15 OF 52

5.2 TEST PROCEDURE

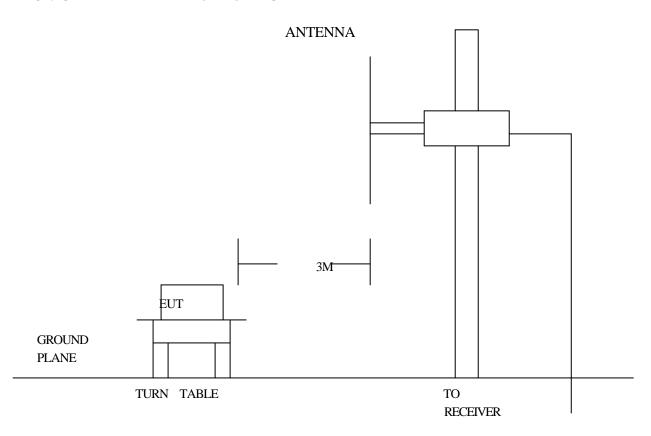
1. The EUT was tested according to ANSI C63.4-1992. The radiated test was performed at SRT lab's open site. This site is on file with the FCC laboratory division, reference 31040/SIT.

FCC ID : <u>P2ISD-200WE-1</u>

- 2. The EUT, peripherals were put on the turntable which table size is
- 1m x 15 m, table high 0.8 m. All set up is according to ANSI C63.4-1992.

 3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at <u>3</u> meters.
- 4. The antenna high were varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5. The antenna polarization: Vertical polarization and horizontal polarization.

5.3 RADIATED TEST SET-UP



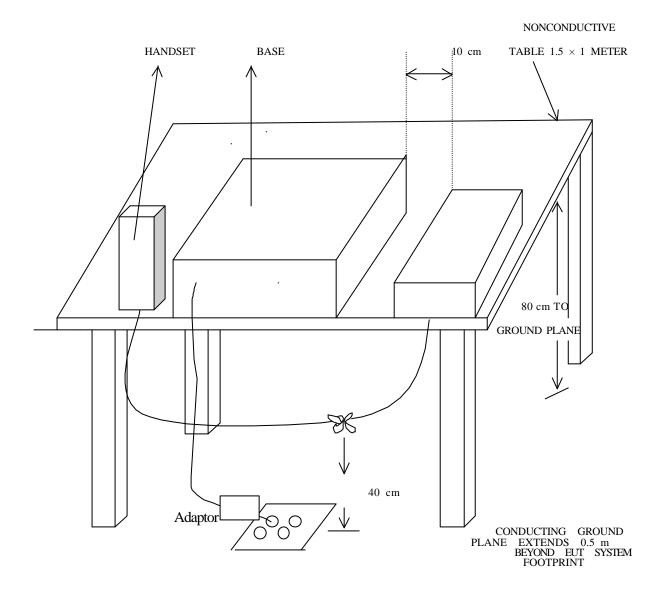
PAGE: 16 OF 52



5.3 RADIATED TEST SET-UP

ANSI C63.4-1992

ELECTRICAL AND ELECTRONIC EQUIIPMENT IN THE RANGE IN THE RANGE OF 9 KHz TO 40 GHz







PAGE: 17 OF 52

5.4 CONFIGURATION OF THE THE EUT

Same as section 4.4 of this report

5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

5.6 RADIATED EMISSION LIMITS

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELS STRENGTH (dBmV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

FUNDAMENTAL AND HARMONICS

FUNDAMENTAL FREQUENCY	FIELD STRENGTH OF FUNDAMENTAL (MILLIVOLTS/METER)	FIELD STRENGTH OF HARMONICS (MILLIVOLTS/METER)
902MHz - 928MHz	50	500
2400MHz - 2483.5MHz	50	500
5725MHz - 5875MHz	50	500
24.0GHz - 24.25GHz	250	2500

NOTE: 1. In the emission tables above, the tighter limit applies at the band edges.

2. Distance refers to the distance between measuring instrument, antemma, and the closest point of any part of the device or system.

NV (AD) Accredited PAGE: 18 OF 52

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at <u>3</u> meters.

. Temperature : 25 . Humidity : 60 %RH . Test result :

FREQ.	FACTOR	ANT. FACTOR		READING EMISSION (dBmV/m)			LIMITS	AZ (°)	EL(M)
(MHz)	(dB)	(dB/m)	HORIZ	VERT	HORIZ	VERT	(dBmV/m)		
142.93	1.8	13.1	21.5	21.2	36.4	36.1	43.5	315.8	1.0
182.27	2.2	10.6	22.9	*	35.7	*	43.5	294.5	2.0
543.29	3.2	17.6	18.3	*	39.1	*	46.0	35.6	2.0
551.44	3.2	18.7	*	18.1	*	40.0	46.0	326.4	1.0
621.06	3.8	19.3	*	16.1	*	39.2	46.0	321.8	1.0
644.58	3.8	20.0	16.3	*	40.1	*	46.0	43.9	2.0

- **REMARKS**: 1. *= Measurement does not apply for this frequency.
 - 2. Uncertainty in radiated emission measured is <+/-4dB
 - 3. Any departure from specification: N/A
 - 4. Factor will include cable loss and correction factor.
 - 5. Sample calculation

Emissiom($dB\mu v/m$) = Factor (dB) + Ant. Factor (dB/m) + reading ($dB\mu V$)

- 6. $AZ(^{\circ})$: Turn table azinuth
- 7. EL(M): Antenna height (Meter)
- 8. Mode 1

					Sack
SIGNED	BY	TESTING	ENGINEER	:	



The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

. Temperature: 20 . Humidity: 60 %RH . Test result:

FREQ.	FACTOR	ANT. FACTOR	READING (dBmV)		EMISSION (dBmV/m)		LIMITS	AZ(°)	EL(M)
(MHz)	(dB)	(dB/m)	HORIZ	VERT	HORIZ	VERT	(dBmV/m)		
49.6680	1.1	15.3	20.6	21.0	37.0	37.4	40.0	326.4	1.0
149.01	1.8	12.9	10.0	11.0	24.7	25.7	43.5	305.8	1.0
198.68	2.2	10.7	15.0	12.0	27.9	24.9	43.5	82.4	1.0
248.35	2.2	12.8	13.0	5.0	28.0	20.0	46.0	310.7	1.0
298.02	2.3	13.2	6.4	6.0	21.9	21.5	46.0	329.5	1.0
347.69	2.7	14.4	8.0	6.0	25.1	23.1	46.0	46.7	1.0
									_

REN	TΛ	D.	KC	

- 1. *= Measurement does not apply for this frequency.
- 2. Uncertainty in radiated emission measured is <+/-4dB
- 3. Any departure from specification: N/A

PAGE: 23 OF 52

- 4. Factor will include cable loss and correction factor.
- 5. Sample calculation

Emissiom($dB\mu v/m$) = Factor (dB) + Ant. Factor (dB/m) + reading ($dB\mu V$)

- 6. AZ(°): Turn table azinuth
- 7. EL(M): Antenna height (Meter)
- 8. Mode 5

SIGNED	RY	TESTING	ENGINEER
	DІ	TESTING	





Jack

The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at <u>3</u> meters.

. Temperature: 20 . Humidity: 60 %RH . Test result:

FREQ.	FACTOR	ANT. FACTOR	READING (dBmV)		EMISSION (dBmV/m)		LIMITS	AZ(°)	EL(M)
(MHz)	(dB)	(dB/m)	HORIZ	VERT	HORIZ	VERT	(dBmV/m)		
49.8298	1.1	15.3	20.5	21.0	36.9	37.4	40.0	326.8	1.0
149.49	1.8	12.9	19.2	16.0	33.9	30.7	43.5	310.8	1.0
199.32	2.2	10.7	15.2	15.0	28.1	27.9	43.5	94.2	1.0
249.15	2.2	12.8	7.3	11.0	22.3	26.0	46.0	162.8	1.0
298.98	2.3	13.2	5.8	6.3	21.3	21.8	46.0	176.4	1.0
348.81	2.7	14.4	7.0	6.0	24.1	23.1	46.0	86.4	1.0

REN	ΛAD	KC	•	1	*-
				1.	-

- *= Measurement does not apply for this frequency.
- 2. Uncertainty in radiated emission measured is <+/-4dB
- 3. Any departure from specification: N/A

PAGE: 24 OF 52

- 4. Factor will include cable loss and correction factor.
- 5. Sample calculation

Emissiom(dB μ v/m) = Factor (dB) + Ant. Factor (dB/m) + reading (dB μ V)

- 6. AZ(°): Turn table azinuth
- 7. EL(M): Antenna height (Meter)
- 8. Mode 6

SIGNED BY TESTING ENGINEER : _____



Jack

The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at <u>3</u> meters.

. Temperature: 20 . Humidity: 60 %RH . Test result:

FREQ.	FACTOR	ANT. FACTOR	READING (dBmV)		EMISSION (dBmV/m)		LIMITS	AZ(°)	EL(M)
(MHz)	(dB)	(dB/m)	HORIZ	VERT	HORIZ	VERT	(dBmV/m)		
49.6920	1.1	15.3	20.7	21.1	37.1	37.5	40.0	329.5	1.0
149.91	1.8	12.9	18.0	15.0	32.7	29.7	43.5	316.2	1.0
199.88	2.2	10.7	13.0	12.0	25.9	24.9	43.5	183.2	1.0
249.85	2.2	12.8	7.0	7.0	22.0	22.0	46.0	179.4	1.0
299.82	2.3	13.2	6.3	6.2	21.8	21.7	46.0	82.6	1.0
349.79	2.7	14.4	6.5	5.3	23.6	22.4	46.0	132.5	1.0

- **REMARKS**: 1. *= Measurement does not apply for this frequency.
 - 2. Uncertainty in radiated emission measured is <+/-4dB
 - 3. Any departure from specification: N/A

PAGE: 25 OF 52

- 4. Factor will include cable loss and correction factor.
- 5. Sample calculation

Emissiom(dB μ v/m) = Factor (dB) + Ant. Factor (dB/m) + reading (dB μ V)

- 6. AZ(°): Turn table azinuth
- 7. EL(M): Antenna height (Meter)
- 8. Mode 7

SIGNED BY TESTING ENGINEER : _____

Jack

6. BANDWITH

6.1 LIMIT

The emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

6.2 TEST RESULTS

Mo	Mode		Operation frequency	20dB bandwidth
Mode 2		1	46.6104MHz	18.20KHz
Mode 3	Base	6	46.77MHz	18.00KHz
Mode 4		10	46.97MHz	17.60KHz
Mode 5		1	49.67MHz	17.40KHz
Mode 6	Handset	6	49.83MHz	17.20KHz
Mode 7	10		49.97MHz	17.80KHz
Mode 8	MP3	1	46.61MHz	22.60KHz
Mode 9		8	46.87MHz 25.40KHz	

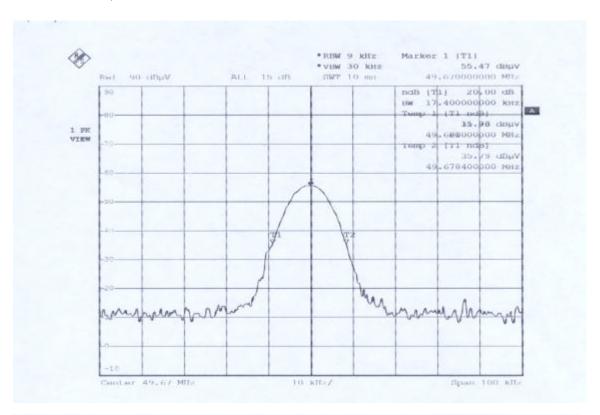
PAGE: 28 OF 52

Please see attached plotter.

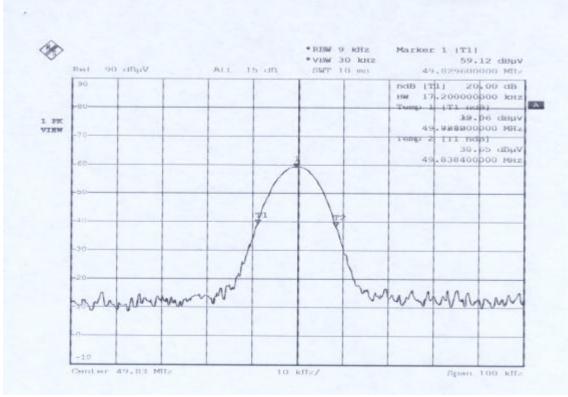




*Handset: channel 1, 6



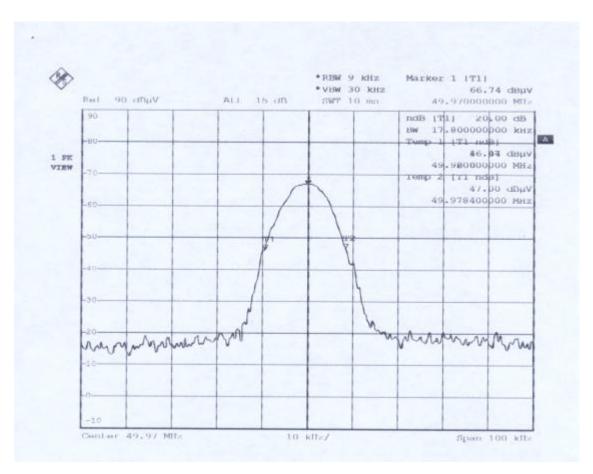
FCC ID : <u>P2ISD-200WE-1</u>





Approved

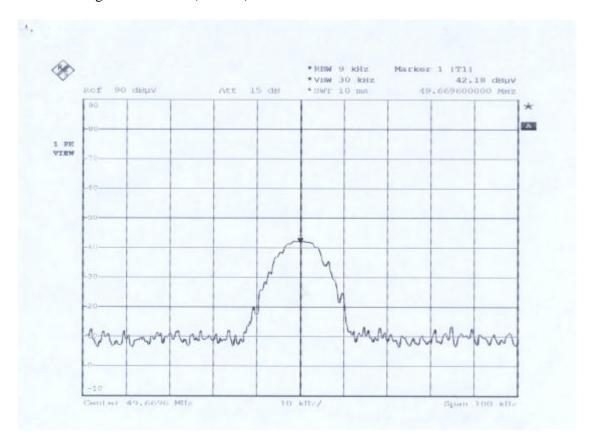
*Handset: channel 10







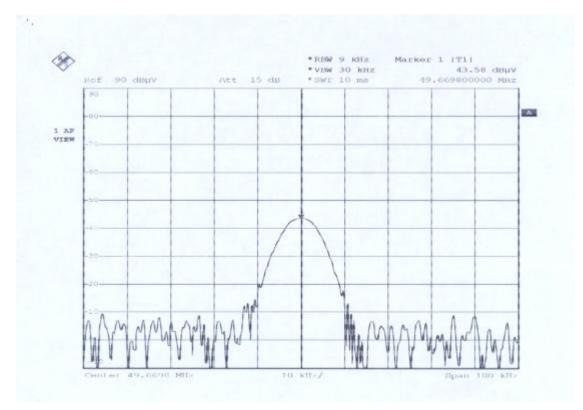
D. When voltage is 4.0V (Handset)

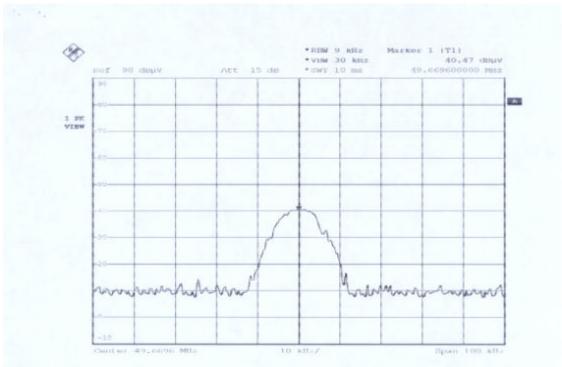






- E. When voltage is 4.6V (change +15%) (Handset)
- F. When voltage is 3.4V (change -15%)

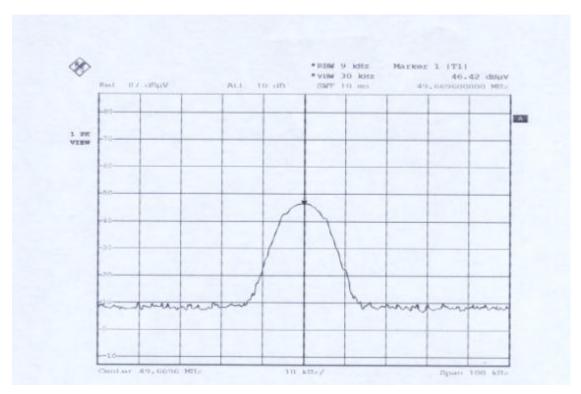


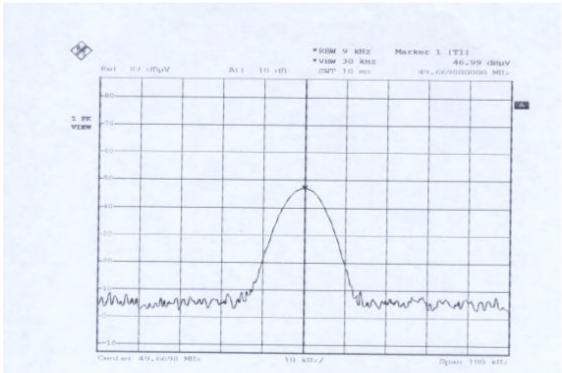




Approved

* Temperature is -20°C, -10°C (Handset)



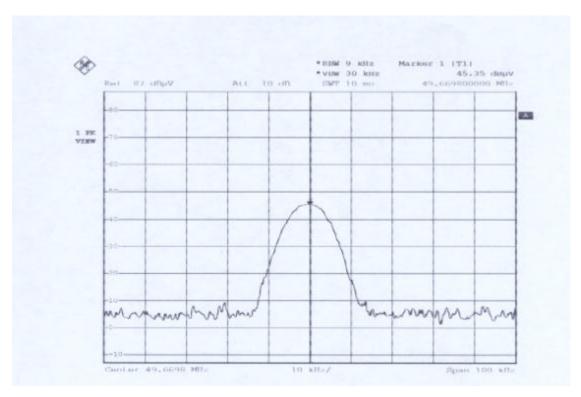


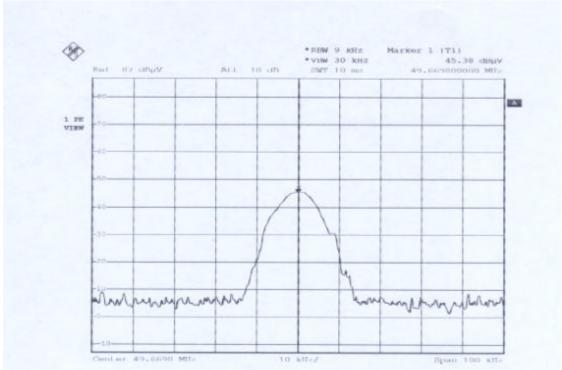




PAGE: 44 OF 52

* Temperature is OC, 10°C (Handset)

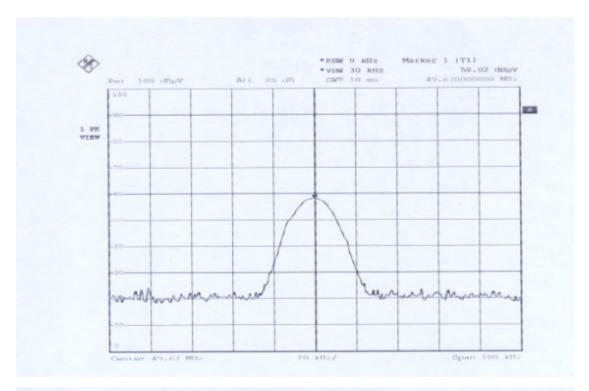


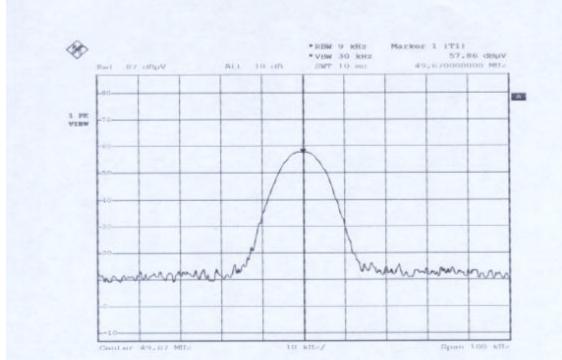






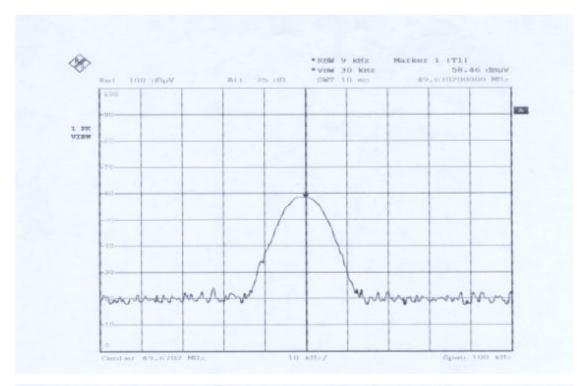
* Temperature is 20°C, 30°C (Handset)

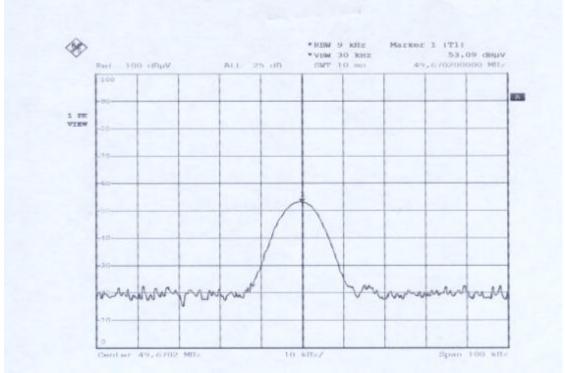






* Temperature is 40°C, 50°C (Handset)









9. VERIFY CHANNELS AND FREQUENCIES

Verify the Frequency Pairs

Channel	Base	Handset
	(MHz)	(MHz)
1	46.610	49.670
2	46.630	49.845
3	46.670	49.860
4	46.710	49.770
5	46.730	49.875
6	46.770	49.830
7	46.830	49.890
8	46.870	49.930
9	46.930	49.990
10	46.970	49.970

Note: This is for sure that all frequencies are in 46.610MHz to 49.970MHz.

Section 15.214(d) The security code is set automatic:

Every time when you place the handset in the base, your cordless will randomly select one of 65,530 possible security codes.



PAGE: 52 OF 52