

Report Number:

Nemko USA, Inc.

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VERIFICATION TEST REPORT

2010 03145986 FCC

Project Number:	40965
Nex Number:	145986
Applicant:	Qualcomm Inc. 5775 Morehouse Dr San Diego, CA 92121
Equipment Under Test (EUT):	Tracking Module
Model:	WMD 1x
FCC ID:	J9CWMD1X
In Accordance With:	FCC Part 22, Subpart H FCC Part 24, Subpart E
Tested By:	Nemko USA Inc. 11696 Sorrento Valley Road, Suite F San Diego, CA 92121
Authorized By:	Alan Laudani, EMC/RF Test Engineer
Date:	March 12, 2010

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Total Number of Pages:

FCC ID: J9CWMD1X

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Section1: Summary of Test Results

General

All measurements are traceable to national standards

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22 and Part 24. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

Apparatus Assessed: Tracking Module

Model: WMD 1x

Specification: FCC Part 22, Subpart H

FCC Part 24, Subpart E

March 11, 2010 **Date Received in Laboratory:**

Compliance Status: Complies

Exclusions: None

Non-compliances: None





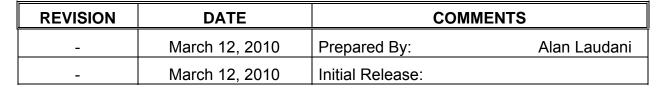
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Report Release History





Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TESTED BY:

Date: March 12, 2010

Alan Laudani, EMC Test Engineer

FCC ID: J9CWMD1X

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Section 2: Equipment Under Test



Product Identification



The Equipment Under Test was indentified as follows:

Qualcomm Inc. Model: WMD 1x

EUT: Tracking Module

Serial number: O21G4UKW3

Theory of Operation

The Wearable Mobile Device (WMD) is an ultra small, 21 x 22 x 4.5 mm WWAN module that can be integrated into a multitude of host devices. The WMD 1x module operates on the 800/1900 MHz CDMA2000 1x networks. The module uses Qualcomm's QSC 6055 chip set and has stand alone GPS, AGPS, gpsOneXTRA-tm and Bluetooth 2.0 technologies. Interfaces for the module include USB 2.0, Bluetooth 2.0, I2C, RUIM support, LCD, camera, keypad, 2 LED control lines, vibrator control, audio and primary RF coax. HTT is designed to be placed in a user's bag or attached to a belt or other article of clothing. The WMD design is optimized for minimal cost, minimal size, maximum battery life and superb position location performance. The WMD 1X device meets the following standards: IS-2000 for CDMA 1xRTT, IS-707-A Data, IS-637-B SMS, IS-683-A Service provisioning, gpsOne and IS-98 CDMA Minimum Performance.

Only 850 MHz (Cellular) and 1900 MHz (PCS) bands are used for operation. The DUT is a pre-production sample

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Technical Specifications of the EUT

Manufacturer:

Qualcomm Inc.

Operating Frequency:

Operating Band
Tx Frequency Range (MHz)
Rx Frequency Range (MHz)

CDMA Cell (BC0) 824 to 849 869 to 894

CDMA PCS (BC1) 1850 to 1910 1930 to 1990

GPS Position Locator 1574.42 to 1576.42

Peak Output Power: 0.39 watts ERP in cell; 1.06 watts EIRP in PCS

Emission Designator:

CDMA 824.7 – 848.31 1M28F9W

1851.25 – 1908.75 1M28F9W

Antenna Data: Mobile: Cellular and PCS band. Antenna gain is 0dBi

Antenna Connector: U.FL-R-SMT (Hirose)

Power Source: 3.8VDC

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Summary of Test Results

Maximum Radiated Output Power

	1		
	1		
4	d	b.	

Mode	Max Power in Cell band (ERP)	Max Power in PCS band (EIRP)
CDMA 1X	26.0 dBm/0.39 watts	30.3 dBm/1.06 watts



Field Strength of Spurious

No spurious emissions are within 20dB of the limits after signal substitution.

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Section 3: Test Methodology



3.1 Test Standards



The tests documented in this report were performed in accordance with:

- FCC CFR 47 Part 2
 FCC CFR 47 Part 22, Subpart H Cellular Radiotelephone Service
- FCC CFR 47 Part 24, Subpart E Broadband PCS
- TIA/EIA 603C (2004)
- ANSI C63.4 (2003)

3.2 Antenna Substitution Method

- 1) Methodology Used: TIA/EIA-603 Clause 2.2.17
- 2) The Substitution Method is used for fundamental power levels and spurious emissions when RF emission signals are measured within 20 dB of the limit.
- 3) Formula Used to calculate the values:
 - a) Measured value + antenna factor + cable loss preamplifier = Max Level
 - b) Margin = Max level Limit
 - c) Signal Generator power level cable loss + antenna gain = ERP Part 22 or EIRP Part 24
 - d) Substituted Margin = ERP (or EIRP) Limit

Note: gain for dipole = 0; antenna factor is not the same as antenna gain

Note: The signal generator power level is the power required when transmitting into the substituting antenna to duplicate the Measured Value. Substituted margin is reported in 731 forms pertaining to certification grants and Class II Permissive Changes when a direct conducted power reading cannot be performed.

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Section 4: Test Conditions



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4.1 Specifications



The apparatus was assessed against the following specifications:

- FCC Part 22, Subpart H Cellular Radiotelephone Service
- FCC Part 24, Subpart E Broadband PCS

4.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

4.3 Test Environment

All tests were performed under the following environmental conditions:

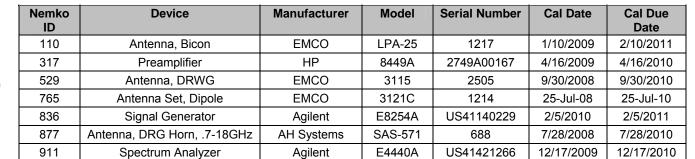
Temperature range : 13-18 °C Humidity range : 33-83 %

Pressure range : 102 - 105 kPa

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4.4 Test Equipment



2040B-1 OATS/RN# 329550-01







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Section 5: Observations



5.1 Modifications Performed During Assessment

No modifications were performed during assessment.

5.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

5.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

5.4 Test Deleted

See Section 6.

5.5 Additional Observations

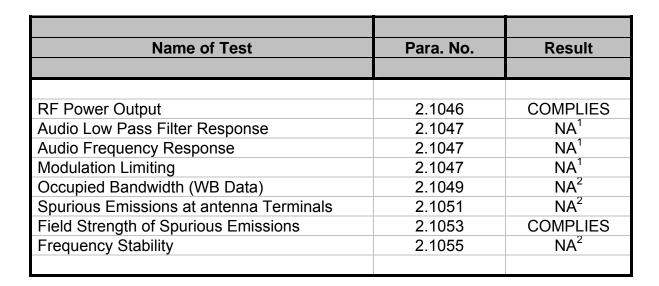
There were no additional observations made during this assessment.

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Section 6: Results Summary

The results contained in this section are representative of the operation of the apparatus as originally submitted.



¹Digital Modulation Footnotes for N/A's:







²Test methodology and results will be provided by the client

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Appendix A: Test Results

Para. No.: 2.1046 RF Power Output





§ 22.913 Effective radiated power limits.

The effective radiated power (ERP) of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section.

- (a) Maximum ERP. In general, the effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. However, for those systems operating in areas more than 72 km (45 miles) from international borders that:
- (1) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or,
- (2) Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

§ 24.232 Power and antenna height limits.

- (c) Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.
- (d) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

Test Conditions:

Sample Number:	WMD 1x	Temperature:	17°C
Date:	3/11/2010	Humidity:	38%
Test Procedure:	ANSI C63.4 (2003) Clause 8	Tester:	Alan Laudani
		Laboratory:	SOATS

Test Results:

Complies, see tables in the following pages.

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				Ra	adiated	Emissio	ns Data				
Job#:		40965			Date :	3-11-2010		Page	1	of	_1_
NEX #:		145986				1250		-		_	
Client Name		Qualcomm	n Inc		Staff:	aal		EUT Vol	tane ·		120
EUT Name :		Tracking N						EUT Fre	•		60
EUT Model #		WMD	1000.					Phase:	que,	•	1
EUT Serial #	# :	O21G4UK	W3					NOATS			X
EUT Config.	:	Transmit					ı	SOATS			
								Distance Distance			3 m 3 m
Specification	ı:	CFR47 Pa	ırt 24					Diotarioo	1000		
oop Ant. #:		NA NA		Т	· (°C) ·	47				Quasi-P	
Bicon Ant.#: .og Ant.#:		NA NA			np. (°C) : dity (%) :	<u>17</u> 38				Peak	Video Bandwidth 300 k RBW: 1 MH:
DRG Ant. #		877	;	Spec An		911				reak	Video Bandwidth 3 MH:
Cable LF#:		SOATS	•	nalyzer D		911				Average	
Cable HF#:		SOATS	Quasi-	Péak De	tector #:	NA				_	Video Bandwidth 10 Hz
Preamp LF#	:	NA		Prese	elector #:	NA					
Preamp HF#	ŧ	317									lues, unless otherwise sta
Moos	Motor	Meter	Det.	EUT	Ant.	Max.	Corrected		Hz are Av CR/SL	erage val	lues, unless otherwise sta
Meas. Freq.	Meter Reading	Reading	Det.	Side	Height	Reading	Reading	Spec. limit	Diff.	Fail	
(MHz)	Vertical	Horizontal	l	F/L/R/B	m	(dBµV)	(dBm)	(dBm)	(dB)	1 4.11	Comment
1851.25	92.5	81.8	Р		1.0	92.5	30.3				
3702.5	56.4	57.5	Р		1.0	57.5	-27.3	-13.0	-14.3	Pass	2ND HARM.
5553.8	40.7	40.4	P P		1.0	40.7	-36.6	-13.0	-23.6	Pass	AMBIENTS 30 kHz RBW
7405.0 9256.3	24.7 24.9	23.8	P		1.0	24.7 24.9	-44.3 -36.7	-13.0 -13.0	-31.3 -23.7	Pass Pass	30 KHZ KBW
11107.5	21.6	21.1	P		1.0	21.6	-35.1	-13.0	-22.1	Pass	9 kHz RBW
12958.8	22.1	22.0	P		1.0	22.1	-34.4	-13.0	-21.4	Pass	
14810.0	17.1	14.2	Р		1.0	17.1	-36.8	-13.0	-23.8	Pass	3 kHz RBW
16661.3	16.5	16.5	Р		1.0	16.5	-39.1	-13.0	-26.1	Pass	
18512.5	16.7	17.7	Р		1.0	17.7	-34.5	-13.0	-21.5	Pass	1 kHz RBW
1880.00	94.4	83.9	Р		1.0	94.4	32.2			1	
3760.00	54.1	47.5	P		1.0	54.1	-30.7	-13.0	-17.7	Pass	
5640.00	40.6	40.4	P		1.0	40.6	-36.6	-13.0	-23.6	Pass	AMBIENTS
7520.00	24.7	23.7	Р		1.0	24.7	-44.2	-13.0	-31.2	Pass	30 kHz RBW
9400.00	24.9	24.2	Р		1.0	24.9	-36.3	-13.0	-23.3	Pass	
11280.00	21.7	21.1	P		1.0	21.7	-35.5	-13.0	-22.5	Pass	9 kHz RBW
13160.00 15040.00	22.1 17.1	22.3 16.2	P P		1.0 1.0	22.3 17.1	-33.3 -36.3	-13.0 -13.0	-20.3 -23.3	Pass Pass	3 kHz RBW
16920.00	11.8	11.7	P		1.0	11.8	-30.3	-13.0	-30.8	Pass	3 KHZ KBVV
18800.00	16.7	17.7	P		1.0	17.7	-34.5	-13.0	-21.5		1 kHz RBW
1908.75	92.8	82.9	Р		1.0	92.8	30.8				
3817.5	48.0	44.1	P		1.0	48.0	-36.2	-13.0	-23.2	Pass	AMBIENTS
5726.3 7635.0	51.9 22.7	51.8 22.8	P P		1.0 1.0	51.9 22.8	-25.0 -45.9	-13.0 -13.0	-12.0 -32.9	Pass Pass	30 kHz RBW
9543.8	21.6	21.6	P		1.0	21.6	-39.4	-13.0	-26.4	Pass	JU KHZ KBVV
11452.5	17.3	17.4	P		1.0	17.4	-39.4	-13.0	-26.4	Pass	9 kHz RBW
13361.3	17.8	17.9	P		1.0	17.9	-38.3	-13.0	-25.3	Pass	
15270.0	11.8	11.9	Р		1.0	11.9	-42.0	-13.0	-29.0	Pass	3 kHz RBW
17178.8	11.7	11.6	Р		1.0	11.7	-41.4	-13.0	-28.4	Pass	
19087.5	11.8	11.5	Р		1.0	11.8	-42.1	-13.0	-29.1	Pass	1 kHz RBW
											
									i .		

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	Radiated Emissions Data											
Job # : NEX #:		40965 145986			Time :	3-11-2010 0900		Page	1	of .	1	
Client Nar EUT Nam		Qualcomn Tracking N			Staff :	aal		EUT Vol	U	:	<u>120</u> 60	
EUT Mode						1						
EUT Seria		O21G4UK	CW3					NOATS			X	
EUT Conf	ig.:	Transmit						SOATS	. 4000			
0 15 1		050.50					•	Distance Distance			3 m 3 m	
Specificat		CFR47 Pa	art 22				-			O: D	DDW: 400 HI	
Loop Ant. Bicon Ant.		NA NA	•	Tem	np. (°C):	12				Quasi-P	eak RBW: 120 kHz Video Bandwidth 300 kHz	
Log Ant.#		110 3M	•		dity (%):	67	•			Peak	RBW: 1 MHz	
DRG Ant.		877	. ;		alyzer#:	911				Cuit	Video Bandwidth 3 MHz	
Cable LF#		SOATS	•	•	isplay #:	911				Average		
Cable HF	#:	SOATS	•	•		NA					Video Bandwidth 10 Hz	
Preamp L	F#:	NA		Prese	elector #:	NA						
Preamp H	IF#	317									lues, unless otherwise stated.	
						Me	easurements	above 1 G	Hz are Av	erage va	lues, unless otherwise stated.	
Meas.	Meter	Meter	Det.	EUT	Ant.	Max.	Corrected	Spec.	CR/SL	Pass		
Freq.	Reading	Reading		Side	Height	Reading	Reading	limit	Diff.	Fail		
(MHz)	Vertical	Horizontal		F/L/R/B	m	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)		Comment	
824.70	99.7	97.1	Р		1.0	99.7	126.6					
1649.4	56.7	56.4	P		1.0	56.7	57.6	74.0	-16.4	Pass	2ND HARM.	
2474.1	43.8	45.9	P		1.0	45.9	50.2	74.0	-23.8	Pass	AMBIENTS	
3298.8	43.9	45.2	P		1.0	45.2	54.0	74.0	-20.0	Pass	AWDILIVIO	
4123.5	44.9	43.0	P		1.0	44.9	57.6	74.0	-16.4	Pass		
4948.2	25.8	27.5	P		1.0	27.5	42.2	74.0	-31.8	Pass		
5772.9	26.4	26.4	Р		1.0	26.4	44.7	74.0	-29.3	Pass	30 kHz RBW	
6597.6	24.4	23.9	Р		1.0	24.4	46.7	74.0	-27.3	Pass		
7422.3	23.2	25.4	Р		1.0	25.4	51.6	74.0	-22.4	Pass		
8247.0	23.4	24.2	Р		1.0	24.2	53.6	74.0	-20.4	Pass		
836.52	101.2	98.4	Р		1.0	101.2	128.2		20.0		*********	
1673.04	34.3	31.1	P		1.0	34.3	35.2	74.0	-38.8	Pass	AMBIENTS	
2509.56	35.9	35.6	P P		1.0	35.9	42.2 48.0	74.0	-31.8	Pass		
3346.08 4182.60	37.8 39.1	38.3 40.5	P		1.0	38.3 40.5	53.2	74.0 74.0	-26.0 -20.8	Pass Pass		
5019.12	38.1	38.3	P		1.0	38.3	55.3	74.0	-18.7	Pass		
5855.64	40.8	39.3	P		1.0	40.8	59.7	74.0	-14.3	Pass	30 kHz RBW	
6692.16	39.6	40.4	P		1.0	40.4	63.1	74.0	-10.8	Pass	00 111 1211	
7528.68	24.3	23.2	Р		1.0	24.3	50.6	74.0	-23.4	Pass		
8365.20	24.9	23.6	Р		1.0	24.9	55.0	74.0	-19.0	Pass		
848.31	99.1	96.1	Р		1.0	99.1	126.4					
1696.6	41.0	41.4	Р		1.0	41.4	42.3	74.0	-31.7	Pass	AMBIENTS	
2544.9	40.9	39.7	P		1.0	40.9	47.2	74.0	-26.8	Pass		
3393.2	43.8	40.3	P		1.0	43.8	53.5	74.0	-20.5	Pass		
4241.6	41.8	41.8	P P		1.0	41.8	54.7	74.0	-19.3	Pass		
5089.9 5938.2	23.5 22.5	24.4 22.9	P		1.0 1.0	24.4 22.9	41.4	74.0 74.0	-32.6 -32.0	Pass	30 kHz RBW	
6786.5	22.5	23.8	P		1.0	23.8	41.9 47.5	74.0	-32.0 -26.5	Pass Pass	OU KITZ KIBVV	
7634.8	23.4	22.6	P		1.0	23.4	49.9	74.0	-24.0	Pass		
8483.1	22.4	24.2	P		1.0	24.2	54.2	74.0	-19.8	Pass		
0.00.1	⊤	_ T.L	•			_ r.L	U 1.2	, 1.0	.5.5	1 400		

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Test Procedure: TIA/EIA 603 Clause 2.2.17

Para. No.:2.1053 Field Strength of Spurious (Substitution Method including Fundamental)

Substitution Method For Radiated Emissions

Client Name: Qualcomm Inc. EUT Name: Tracking Module Date: 3/12/2010 WMD EUT Model #: Time: 1000 O21G4UKW3 EUT Serial #: Staff: A. Laudani EUT Config. : Transmit

Specification: FCC Part 22, 24

Temp. (deg. C): 17 110_3m Log Ant.RX#: Humidity (%): 55 Dipole Ant TX#: 765 Location: SOATS DRG Ant. RX# 877 Distance: 3m DRG Ant. TX# 529

Cable RX #: 529

Preamp#: 317

 Preamp#:
 317
 Peak Bandwidth < 1 GHz: RBW-100kHz, VBW-300kHz</th>

 Spec An.#:
 911
 Peak Bandwidth > 1 GHz: RBW-1MHz, VBW-1MHz

tar	get		cable	Signal	Total	Spec	Margin
Frequency	level	dipole	loss	Generator	(ERP)		
mHz	dBuV/m		dB	dBm	dBm	dBm	dBm
824.70	99.7	0	1.74	26.30	24.6	38.5	-13.9
836.52	101.2	0	1.75	27.70	26.0	38.5	-12.5
848.31	848.31 99.1		1.85	25.50	23.7	38.5	-14.8
tar	get	Horn	cable	Signal	Total	Spec	Margin
Frequency	level	Gain	loss	Generator	(EIRP)		
mHz	dBuV/m	dBi	dB	dBm	dBm	dBm	dBm
1648.0	56.7	7.84	2.34	-47.74	-42.2	-13	-29.2
1672.0	34.3	7.88	2.39	-70.00	-64.5	-13	-51.5
1696.0	1696.0 41.4		2.43	-62.80	-57.3	-13	-44.3

tar Frequency	get level	Horn Gain	cable loss	Signal Generator	Total (EIRP)	Spec	Margin
mHz	dBuV/m	dBi	dB	dBm	dBm	dBm	dBm
1851.25	92.5	8.16	2.59	22.00	27.6	33.0	-5.4
1880.00	94.4	8.21	2.64	24.70	30.3	33.0	-2.7
1908.75	92.8	8.25	2.54	22.90	28.6	33.0	-4.4
3702.0	57.5	9.87	3.74	-40.00	-33.9	-13	-20.9
3760.0	54.1	9.88	3.74	-42.75	-36.6	-13	-23.6
3816.0	48.0	9.88	4.05	-47.92	-42.1	-13	-29.1

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Appendix B: Setup Photographs







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