

Test & Certification Center (TCC) - Dallas
DTX 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

CFR 47 Part 15 Test Report

Test Report Number: WR-998.102

Terminal device:

FCC ID: QMNRM-193 Model: 2865i Type: RM-193 HW: B2.0 SW: FL100b04.nep
(Detailed information is listed in section 4).

Originator: Viet Do
Function: TCC - Dallas – EMC
Version/Status: 1.0 Approved
Location: TCC Directories
Date: 12-May-06

Change History:

Version	Date	Status	Handled By	Comments
0.1	9-May-06	Draft	Viet Do	
0.2	10-May-06	Proposal	Viet Do	
0.3	11-May-06	Reviewed	Cindy Trinh	
1.0	12-May-06	Approved	Cindy Trinh	

Testing laboratory:

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Date and signatures:

12-May-06

For the contents:

Viet Do
Test Engineer

Cindy Trinh
Technical Review

TABLE OF CONTENTS

1. GENERAL	3
1.1 QUALITY SYSTEM	3
1.2 OBJECTIVE	3
1.3 TEST SUMMARY	3
2. STANDARDS BASIS	4
3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS	5
3.1 ABBREVIATIONS	5
3.2 ACRONYMS	5
3.3 TERMS	5
4. EQUIPMENT-UNDER-TEST (EUT)	6
4.1 DESCRIPTION OF TESTED DEVICE(S):	6
5. TEST EQUIPMENT LIST	7
6. IDLE MODE RADIATED EMISSIONS	8
6.1 SETUP	8
6.2 PASS/FAIL CRITERIA	8
6.3 DETAILED TEST RESULTS	8
7. AC CONDUCTED EMISSIONS	12
7.1 SETUP	12
7.2 PASS/FAIL CRITERIA	12
7.3 DETAILED TEST RESULTS	12
7.3.1 FCC Part 15.107	13
7.3.2 FCC Part 15.207	19

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1. GENERAL

1.1 Quality System

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). TCC - Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661N.

1.2 Objective

All tests and measurement data shown was performed to determine whether the selected handset was in compliance as specified in FCC: CFR47 Parts 15.109,15.107 and 15.207.

1.3 Test Summary

Test Results: *The test result relates only to those tested devices mentioned in Section 4 of this test report.*

Test Performed	Reference	Section of Report	Complies / Does not comply / Not Tested
Idle Mode Radiated Emissions	FCC Part 15.109	6	Complies
AC Conducted Emissions	FCC Part 15.107/207	7	Complies

2. STANDARDS BASIS

Testing has been carried out in accordance with:

REF.	Code of the standard	Name of the standard
1	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.
2	FCC: CFR 47 Part 15	Code of Federal Regulations (CFR) Title 47, Part 15 – Radio Frequency Devices: Subpart B – Unintentional Radiators and Subpart C – Intentional Radiators
3	CISPR 22 / EN55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.
4	ICES-003	Digital Apparatus, Industry Canada
5	RSS-129	800 MHz Dual-Mode Cellular Telephones
6	RSS-132	800 MHz Cellular Telephones Employing New Technologies
7	RSS-133	2 GHz Personal Communications Services, Industry Canada
8	RSS-212	Test Facilities and Test Methods for Radio Equipment, Industry Canada (Provisional)
9	RSP-100	Radio Equipment Certification Procedure

Note: Unless otherwise stated, (by reference to a version number and a publication date), the latest version of the above documents applies.

Deviations:

Not Applicable.

3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS

3.1 Abbreviations

- dB - decibel
- dBm - decibels per milliwatt (absolute measurement)
- dB μ V - decibel per microvolt
- dB μ V/m - decibel of microvolt per meter
- GHz - gigahertz or 1000000000 hertz
- kHz - kilohertz or 1000 hertz
- MHz - megahertz or 1000000 hertz

3.2 Acronyms

- AMPS - Advanced Mobile Phone System
- BSS - Base Station Simulator
- CDMA - Code Division Multiple Access
- EMC - Electromagnetic Compatibility
- EMI - Electromagnetic Interference
- EUT - Equipment under Test
- GSM - Global System for Mobile communications
- PCS - Personal Communications Services
- RF - Radio Frequency

3.3 Terms

Base Station Simulator (BSS) - simulates all the necessary signals that a phone would experience while on a live network. There are many types of base station simulators catering for all current protocols, i.e., GSM, AMPS, and CDMA.

Cellular - refers to a frequency in the 800MHz band.

PCS - refers to a frequency in the 1900MHz band.

Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

4. EQUIPMENT-UNDER-TEST (EUT)

The results in this report relate only to the items listed below:

4.1 Description of Tested Device(s):

Test Performed	Mode of Operation	Date of Receipt	Condition of Sample	Item	Identifying Information
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	4-May-06	Functional	Phone	FCC ID: QMNRM-193 Type: RM-193 HW: B2.0 SW: FL100b04.nep ESN: 02603343331
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	Battery	Type: BL-6C Other: 3.7 Vdc
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	Charger	Type: AC-3U
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	Headset	Type: HS-9
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	Laptop	Manufacturer: IBM Model: T40 Type: 2373 SN: 99ZVGF9
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	AC Adapter	Manufacturer: IBM PN: 02K6543
FCC Part 15.109 FCC Part 15.107 FCC Part 15.207	AMPS, CDMA 800/1900	N/A	N/A	Data cable	Type: CA-53

Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Ver 1.0

5. TEST EQUIPMENT LIST

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items listed can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.

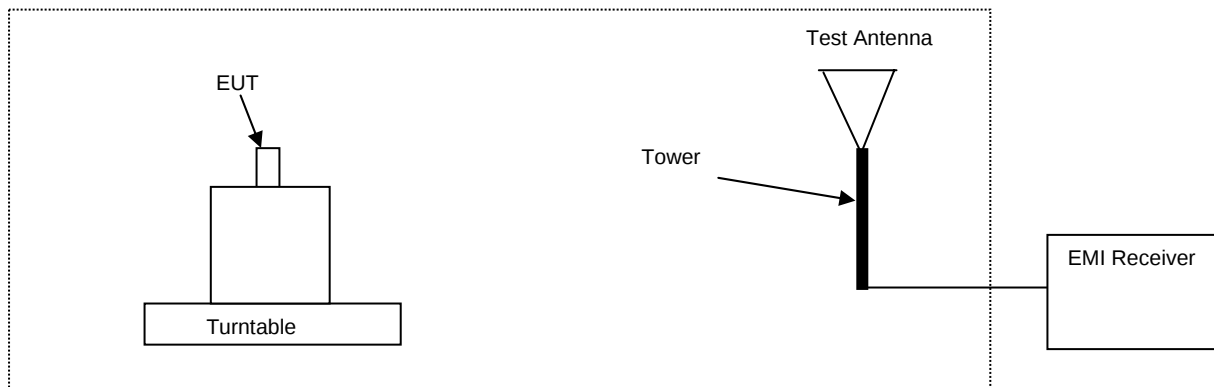
Section of Report	NMP#	Test Equipment	Mfr. #	Model #	Calibration Due Date	Calibration Interval
6,7	04073	EMI Receiver	Rhode & Schwarz	ESIB 26	03-Aug-06	12 months
6,7	02625	Base Station	Rhode & Schwarz	CMU-200	30-Aug-06	12 months
6,7	02871	Biconilog Antenna	EMC Automation	3003C	08-July-06	12 months
6,7	04076	Horn Antenna	ETS	3117	18-Aug-06	12 months
6,7	02836	Turntable and Tower Controller	Sunol	FM2022 & 2846	N/A	N/A
6,7	00658	LISN	R&S	ESH-S5	07-July-06	12 months
6,7	02880	Biconilog Antenna	EMC Automation	3003C	23-Sep-06	12 months

6. IDLE MODE RADIATED EMISSIONS

Specification: FCC Part 15.109

6.1 Setup

Testing was performed in accordance with ANSI C63.4, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.



6.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Class B Limit (dBμV/m at 3m)
Cellular	30 – 88	40
Cellular	88 – 216	43.5
Cellular	216 – 960	46
Cellular	> 960 *	54

* Frequency to be investigated up to the 5th harmonic of the highest clock or frequency used

6.3 Detailed Test Results

Test Technician / Engineer	Viet Do
Date of Measurement	8-May-06
Temperature	23 to 27°C
Humidity	42 to 54 %RH
Test Result	Complies with FCC Part 15.109



AMPS, RM-193 with AC-3U, HS-9 and CA-53

Quasi peak (RBW/VBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
32.964329	29.50	29.85	41.70	-12.20	VERTICAL	Passed
399.499599	35.00	56.23	40.00	-5.00	VERTICAL	Passed
468.036673	44.30	164.06	47.80	-3.50	HORIZONTAL	Passed
531.762124	26.80	21.88	29.10	-2.30	HORIZONTAL	Passed
929.359719	33.10	45.19	28.80	4.30	VERTICAL	Passed

Average (RBW/VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1001.500000	45.40	186.21	40.70	4.70	VERTICAL	Passed
1197.402806	33.90	49.55	27.20	6.70	VERTICAL	Passed
1601.702405	43.50	149.62	33.70	9.80	HORIZONTAL	Passed
2003.004008	41.70	121.62	29.80	11.90	VERTICAL	Passed
8770.547094	37.90	78.52	21.00	16.90	VERTICAL	Passed
9425.847695	39.10	90.16	21.20	17.90	HORIZONTAL	Passed
9737.970942	39.40	93.33	21.10	18.30	VERTICAL	Passed
10421.349699	40.30	103.51	19.90	20.40	HORIZONTAL	Passed
10928.349699	40.90	110.92	19.60	21.30	VERTICAL	Passed
11024.550100	41.00	112.20	19.50	21.50	VERTICAL	Passed

Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

CDMA 800, RM-193 with AC-3U, HS-9 and CA-53

Quasi peak (RBW/VBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
33.045291	27.30	23.17	39.50	-12.20	VERTICAL	Passed
399.697996	37.40	74.13	42.40	-5.00	VERTICAL	Passed
465.131864	35.00	56.23	38.70	-3.70	VERTICAL	Passed
486.872745	23.10	14.29	26.50	-3.40	HORIZONTAL	Passed
927.353707	30.80	34.67	26.60	4.20	VERTICAL	Passed

Average (RBW/VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1001.500000	45.60	190.55	40.90	4.70	VERTICAL	Passed
1201.402806	43.30	146.22	36.60	6.70	VERTICAL	Passed
1601.702405	43.60	151.36	33.80	9.80	HORIZONTAL	Passed
2002.004008	43.00	141.25	31.10	11.90	VERTICAL	Passed
2997.997996	42.20	128.82	24.50	17.70	VERTICAL	Passed
9425.849699	39.40	93.33	21.50	17.90	VERTICAL	Passed
9729.456914	40.00	100.00	21.70	18.30	HORIZONTAL	Passed
10424.849699	40.70	108.39	20.30	20.40	VERTICAL	Passed
10925.851703	41.20	114.82	19.80	21.40	VERTICAL	Passed
11024.550100	41.30	116.14	19.80	21.50	VERTICAL	Passed

Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Ver 1.0

CDMA 1900, RM-193 with AC-3U, HS-9 and CA-53

Quasi peak (RBW/VBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
32.545291	30.30	32.73	42.30	-12.00	VERTICAL	Passed
398.597194	35.70	60.95	40.80	-5.10	VERTICAL	Passed
441.982966	25.90	19.72	30.10	-4.20	HORIZONTAL	Passed
468.036673	44.10	160.32	47.60	-3.50	HORIZONTAL	Passed
487.976754	23.50	14.96	26.90	-3.40	VERTICAL	Passed
666.130661	33.20	45.71	33.80	-0.60	VERTICAL	Passed

Average (RBW/VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1000.500000	36.70	68.39	32.00	4.70	VERTICAL	Passed
1199.402806	33.40	46.77	26.70	6.70	VERTICAL	Passed
1602.202405	43.90	156.68	34.10	9.80	HORIZONTAL	Passed
2003.004008	42.50	133.35	30.60	11.90	VERTICAL	Passed
9727.956914	39.80	97.72	21.50	18.30	VERTICAL	Passed
10422.351703	40.50	105.93	20.10	20.40	VERTICAL	Passed
10928.353707	41.10	113.50	19.80	21.30	VERTICAL	Passed
11027.052104	41.20	114.82	19.70	21.50	VERTICAL	Passed

7. AC CONDUCTED EMISSIONS

Specification: FCC Part 15.107 and 207

7.1 Setup

Testing was performed in accordance with ANSI C63.4, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

7.2 Pass/Fail Criteria

Frequency Range	AC Conducted Emission Limits (CISPR 22)	
	Quasi-peak (dBμV)	Average (dBμV)
0.15MHz - 0.5MHz	66 - 56	56 - 46
0.5MHz - 5MHz -	56	46
5MHz - 30MHz	60	50

7.3 Detailed Test Results

Test Technician / Engineer	Viet Do
Date of Measurement	8-May-06
Temperature	21 to 23°C
Humidity	45 to 55 %RH
Test Result	Complies with FCC Part 15.107
Test Result	Complies with FCC Part 15.207

Note: x = QP
+ = AVG

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DTXC 1280-EN-2.0

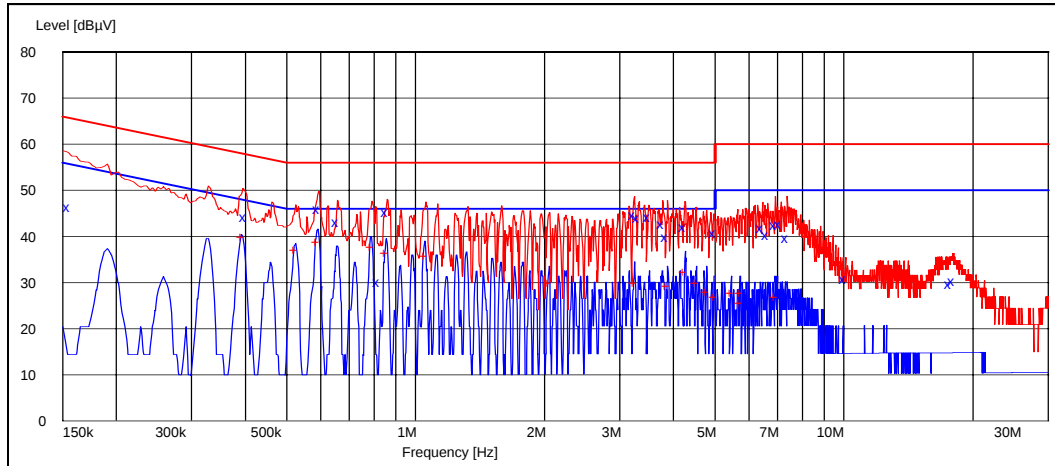
FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

7.3.1 FCC Part 15.107

AMPS, Channel 321, RM-193 with AC-3U and HS-9



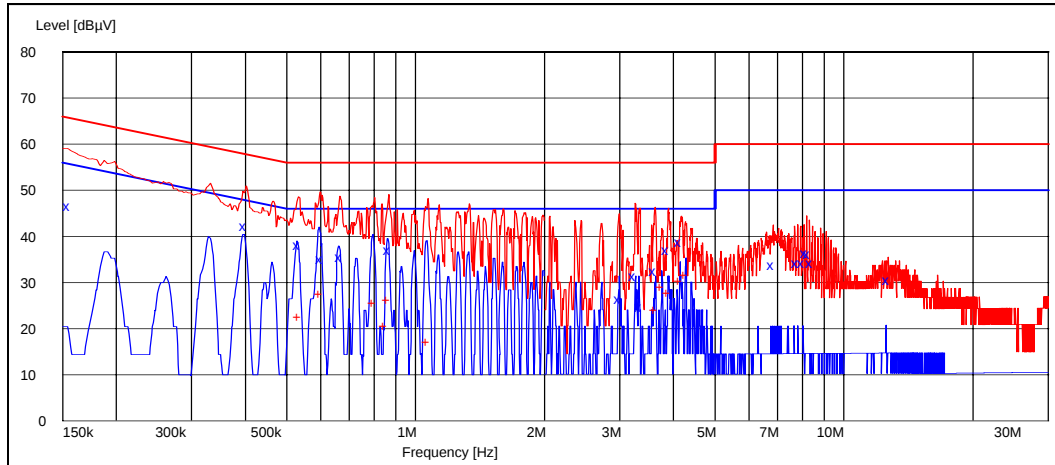
Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.155000	46.30	L1	Passed
0.400000	44.20	L1	Passed
0.595000	45.90	L1	Passed
0.660000	43.10	L1	Passed
0.820000	30.10	L1	Passed
0.860000	45.20	L1	Passed
3.245000	44.50	N	Passed
3.325000	43.90	N	Passed
3.520000	44.20	N	Passed
3.790000	42.70	N	Passed
3.875000	39.80	N	Passed
4.260000	42.00	L1	Passed
5.000000	40.80	N	Passed
6.475000	41.90	N	Passed
6.650000	40.30	N	Passed
6.940000	42.50	N	Passed
7.125000	42.70	N	Passed
7.385000	39.70	L1	Passed
10.095000	30.80	N	Passed
17.765000	29.80	N	Passed
18.050000	30.40	N	Passed

Average (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.395000	39.80	N	Passed
0.525000	37.10	L1	Passed
0.590000	38.80	L1	Passed
0.790000	37.80	N	Passed
0.855000	36.50	N	Passed
1.055000	35.70	N	Passed
2.060000	29.90	N	Passed
3.255000	29.90	L1	Passed
3.885000	29.30	N	Passed
4.260000	32.40	L1	Passed
4.530000	29.90	L1	Passed
4.795000	28.00	L1	Passed
5.010000	26.80	L1	Passed
5.480000	27.80	L1	Passed
5.740000	25.60	N	Passed
5.750000	27.70	L1	Passed
6.950000	26.90	N	Passed

CDMA 800, Channel 384, RM-193 with AC-3U and HS-9



Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.155000	46.70	L1	Passed
0.400000	42.30	L1	Passed
0.535000	38.20	L1	Passed
0.605000	35.10	N	Passed
0.670000	35.60	L1	Passed
0.870000	37.10	N	Passed
3.010000	26.50	N	Passed
3.255000	31.40	N	Passed
3.355000	24.70	N	Passed
3.630000	32.40	L1	Passed
3.890000	37.10	L1	Passed
4.160000	38.70	L1	Passed
6.840000	33.80	L1	Passed
7.795000	34.10	N	Passed
8.060000	34.10	L1	Passed
8.185000	36.40	N	Passed
8.315000	36.20	N	Passed
8.430000	34.10	N	Passed
12.720000	30.60	L1	Passed

**Average (RBW/VBW: 9 kHz)**

Frequency [MHz]	U [dBμV]	Line	Result
0.535000	22.50	L1	Passed
0.600000	27.50	L1	Passed
0.800000	25.60	N	Passed
0.850000	20.50	L1	Passed
0.865000	26.20	L1	Passed
1.070000	17.00	N	Passed
3.635000	24.00	L1	Passed
3.765000	29.10	L1	Passed
3.895000	27.80	L1	Passed
4.145000	30.30	L1	Passed
4.270000	31.60	L1	Passed

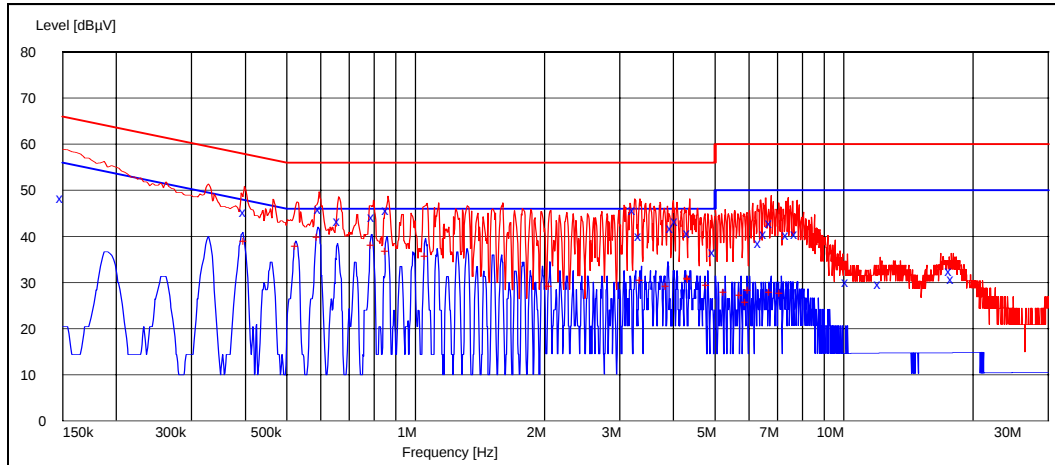
Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

CDMA 1900, Channel 600, RM-193 with AC-3U and HS-9



Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.150000	48.20	L1	Passed
0.400000	45.20	L1	Passed
0.600000	46.00	L1	Passed
0.665000	43.40	L1	Passed
0.800000	44.10	L1	Passed
0.865000	45.70	N	Passed
3.260000	45.80	N	Passed
3.360000	40.20	N	Passed
3.990000	41.80	N	Passed
4.085000	43.40	N	Passed
4.365000	40.80	N	Passed
5.000000	36.70	N	Passed
6.395000	38.60	N	Passed
6.575000	40.50	N	Passed
6.780000	43.00	N	Passed
7.410000	40.30	L1	Passed
7.785000	40.50	L1	Passed
10.225000	30.10	N	Passed
12.165000	29.70	L1	Passed
17.830000	32.40	N	Passed
18.025000	30.80	N	Passed

**Average (RBW/VBW: 9 kHz)**

Frequency [MHz]	U [dBμV]	Line	Result
0.400000	39.10	L1	Passed
0.530000	37.80	N	Passed
0.595000	39.90	L1	Passed
0.795000	38.10	N	Passed
0.860000	36.80	N	Passed
1.065000	35.70	L1	Passed
2.070000	29.30	L1	Passed
3.375000	30.50	L1	Passed
3.880000	29.30	L1	Passed
4.370000	31.00	L1	Passed
4.375000	30.80	L1	Passed
4.825000	29.50	N	Passed
5.305000	28.00	N	Passed
5.770000	27.20	L1	Passed
5.955000	25.70	L1	Passed
6.045000	28.40	N	Passed
6.775000	28.00	N	Passed
7.155000	27.60	N	Passed

Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

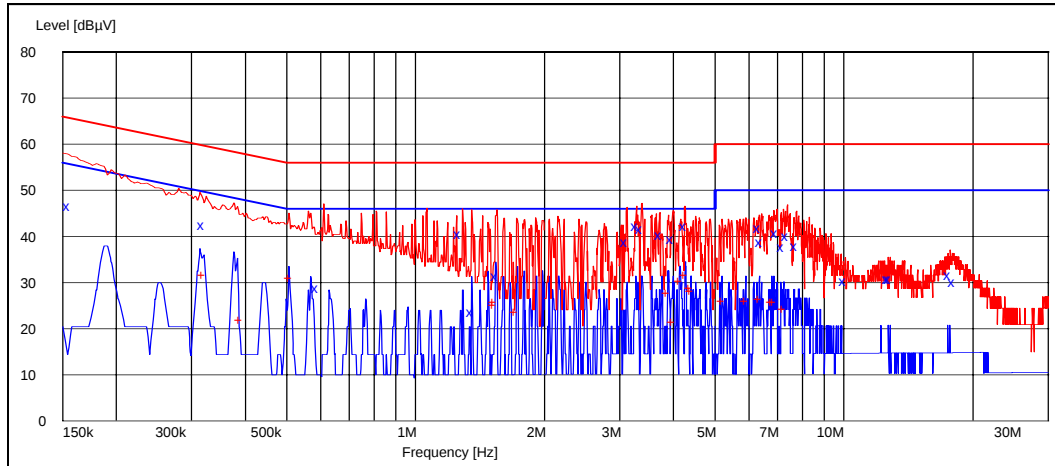
FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

7.3.2 FCC Part 15.207

AMPS, Channel 384, RM-193 with AC-3U and HS-9



Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.155000	46.60	L1	Passed
0.320000	42.40	L1	Passed
0.590000	28.90	L1	Passed
1.270000	40.50	N	Passed
1.360000	23.60	L1	Passed
1.550000	31.40	L1	Passed
3.110000	38.90	L1	Passed
3.295000	42.20	N	Passed
3.370000	41.50	L1	Passed
3.740000	40.30	L1	Passed
3.990000	39.40	N	Passed
4.265000	42.20	L1	Passed
6.355000	41.70	N	Passed
6.425000	38.80	L1	Passed
6.980000	40.70	N	Passed
7.225000	37.70	N	Passed
7.395000	40.10	L1	Passed
7.750000	37.90	N	Passed
10.090000	30.30	N	Passed
12.720000	30.80	L1	Passed
12.845000	30.80	L1	Passed
17.740000	31.50	N	Passed
18.100000	30.10	N	Passed

**Average (RBW/VBW: 9 kHz)**

Frequency [MHz]	U [dBμV]	Line	Result
0.320000	31.60	N	Passed
0.390000	21.80	L1	Passed
0.510000	30.90	N	Passed
1.525000	25.10	N	Passed
1.530000	25.70	L1	Passed
1.715000	23.60	N	Passed
3.885000	27.80	N	Passed
3.995000	21.50	L1	Passed
4.145000	30.40	L1	Passed
4.265000	31.50	L1	Passed
4.395000	28.80	L1	Passed
4.410000	28.10	L1	Passed
5.220000	26.00	L1	Passed
5.925000	26.00	N	Passed
6.375000	26.40	N	Passed
6.810000	25.90	L1	Passed
6.885000	25.70	N	Passed
7.245000	24.20	L1	Passed

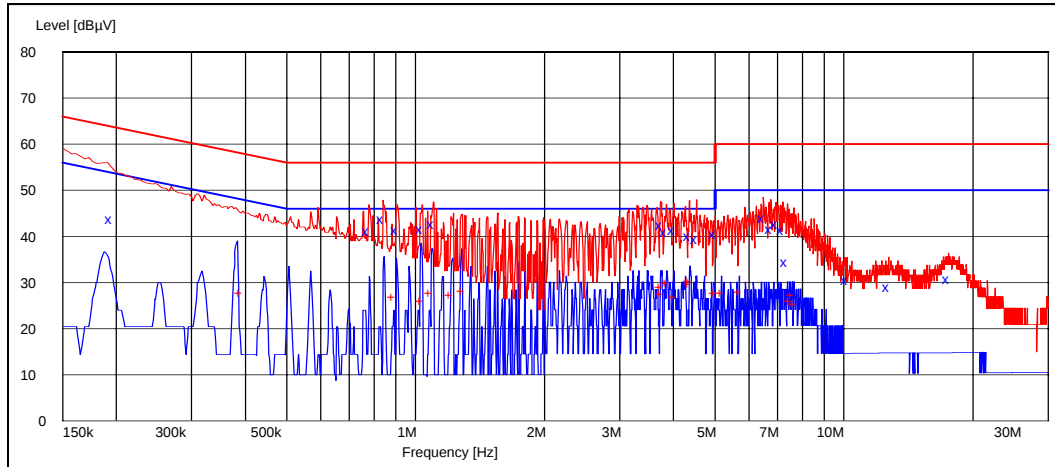
Test & Certification Center (TCC) - Dallas
DTXC 1280-EN-2.0

FCC ID: QMNRM-193
Test Report #: WR-998.102
12-May-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

CDMA 800, Channel 384, RM-193 with AC-3U and HS-9



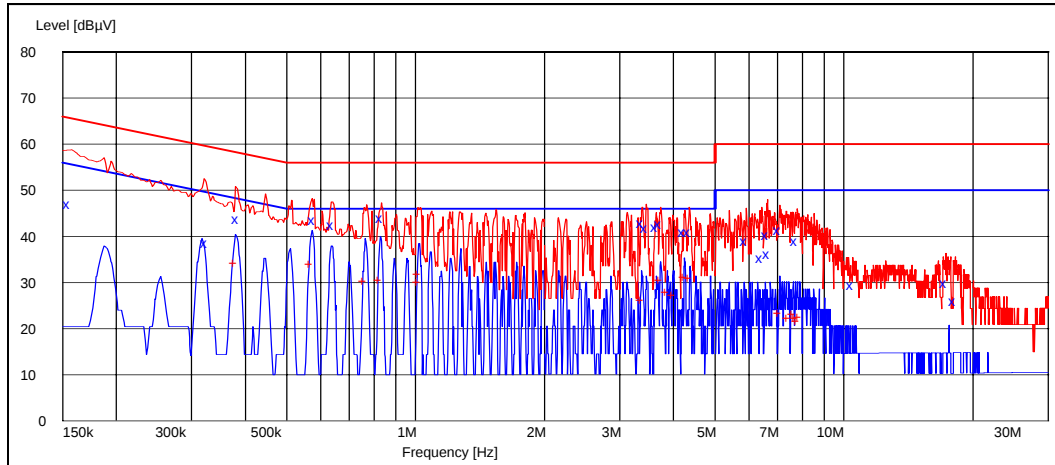
Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.195000	43.70	L1	Passed
0.775000	41.10	L1	Passed
0.840000	43.80	L1	Passed
0.905000	41.30	N	Passed
1.035000	41.60	L1	Passed
1.100000	42.60	N	Passed
3.750000	42.50	N	Passed
3.845000	41.00	L1	Passed
4.010000	41.30	N	Passed
4.360000	40.20	N	Passed
4.530000	39.50	L1	Passed
5.000000	40.60	L1	Passed
6.505000	43.90	L1	Passed
6.760000	41.60	N	Passed
6.955000	42.60	N	Passed
7.210000	41.30	L1	Passed
7.355000	34.40	N	Passed
10.175000	30.60	L1	Passed
12.720000	29.10	L1	Passed
17.560000	30.80	N	Passed

**Average (RBW/VBW: 9 kHz)**

Frequency [MHz]	U [dBμV]	Line	Result
0.390000	27.80	L1	Passed
0.890000	26.80	N	Passed
1.035000	26.10	N	Passed
1.085000	27.60	L1	Passed
1.210000	27.30	N	Passed
1.290000	28.10	N	Passed
3.745000	29.10	L1	Passed
3.750000	27.40	N	Passed
3.865000	29.90	L1	Passed
4.015000	26.80	L1	Passed
4.365000	30.30	L1	Passed
4.370000	29.70	L1	Passed
5.000000	27.80	L1	Passed
5.195000	27.80	N	Passed
5.720000	28.00	N	Passed
7.500000	26.00	N	Passed
7.585000	27.30	N	Passed
7.670000	25.40	L1	Passed

CDMA 1900, Channel 600, RM-193 with AC-3U and HS-9



Quasi peak (RBW/VBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.155000	47.00	L1	Passed
0.325000	38.60	L1	Passed
0.385000	43.70	L1	Passed
0.580000	43.50	L1	Passed
0.640000	42.40	L1	Passed
0.835000	44.00	L1	Passed
3.390000	42.80	N	Passed
3.465000	41.70	L1	Passed
3.655000	42.10	N	Passed
3.735000	42.70	N	Passed
4.240000	40.90	L1	Passed
4.360000	40.90	N	Passed
5.925000	39.00	N	Passed
6.455000	35.30	L1	Passed
6.635000	40.40	N	Passed
6.695000	36.20	L1	Passed
7.090000	41.30	L1	Passed
7.770000	39.10	N	Passed
10.505000	29.40	L1	Passed
17.335000	30.00	L1	Passed
18.185000	26.00	N	Passed

**Average (RBW/VBW: 9 kHz)**

Frequency [MHz]	U [dBμV]	Line	Result
0.380000	34.20	N	Passed
0.570000	34.00	L1	Passed
0.760000	30.30	L1	Passed
0.825000	30.50	N	Passed
1.015000	30.20	L1	Passed
1.020000	31.80	N	Passed
3.375000	26.30	L1	Passed
3.735000	30.50	L1	Passed
3.870000	27.90	N	Passed
4.010000	27.30	L1	Passed
4.250000	31.20	L1	Passed
4.380000	30.90	L1	Passed
7.085000	23.50	L1	Passed
7.440000	22.30	N	Passed
7.630000	23.20	N	Passed
7.710000	22.30	L1	Passed
7.795000	21.60	N	Passed
7.895000	22.60	L1	Passed