

FCC CFR47 PART 15 SUBPART C CERTIFICATION TEST REPORT

FOR

SMART PHONE

MODEL NUMBER: ST22B

FCC ID: NM8TNDF

REPORT NUMBER: 05T3458-2

ISSUE DATE: JULY 18, 2005

Prepared for

HIGH TECH COMPUTER CORP. 23 HSIN-HUA RD., TAOYUAN 330 TAIWAN, R.O.C.

Prepared by

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d.b.a.

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Revision History

	Issue		
Rev.	Date	Revisions	Revised By
A	7/18/05	Initial Issue	Thu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HIGH TECH COMPUTER CORP.

23 HSIN HUA ROAD

TAOYUAN 330, TAIWAN R.O.C.

EUT DESCRIPTION: SMART PHONE

MODEL: ST22B

SERIAL NUMBER: HT524EM00092

DATE TESTED: JULY 08 - 09, 2005

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:

12.1

THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

CHIN PANG EMC ENGINEER

COMPLIANCE CERTIFICATION SERVICES

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

3. CROSS REFERENCE TO OTHER REPORTS ON THIS PRODUCT

Other FCC report applicable to this product includes CCS 05U3458-1.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

5. CALIBRATION AND UNCERTAINTY

5.1. **MEASURING INSTRUMENT CALIBRATION**

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

REPORT NO: 05T3458-2 DATE: JULY 14, 2005 FCC ID: NM8TNDF **EUT: SMART PHONE**

6. EQUIPMENT UNDER TEST

6.1. **DESCRIPTION OF EUT**

The EUT is a PDA Phone with all auxiliary equipment as described below

Auxiliary Equipment	Brand	Model No.
Li-Ion Rechargeable Battery	HP	ST26BB
AC adaptor	Delta	ADP-5FH B
Earphone	eAcetech Corp.	TS888-03206N

6.2. **MAXIMUM OUTPUT POWER**

The transmitter has a maximum peak conducted output power as follows:

2400 to 2483.5 MHz Authorized Band

Frequency Range	Mode	Output Power	Output Power
(MHz)		(dBm)	(mW)
2402 - 2480	Bluetooth	2.51	1.78

DESCRIPTION OF AVAILABLE ANTENNAS 6.3.

The radio utilizes a PIFA antenna with a maximum gain of 0 dBi for Bluetooth modes.

6.4. **SOFTWARE AND FIRMWARE**

For the Bluetooth: The test driver software was "Bluetooth Test".

WORST-CASE CONFIGURATION AND MODE 6.5.

The worst-case channel is determined as the channel with the highest average output power. The highest measured output powers were at 2441MHz for Bluetooth mode.

6.6. **DESCRIPTION OF TEST SETUP**

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description Manufacturer Model Serial Number FCC ID					
AC Adapter	Dell	PA-1900-02D	09T215480102CK027	DoC	

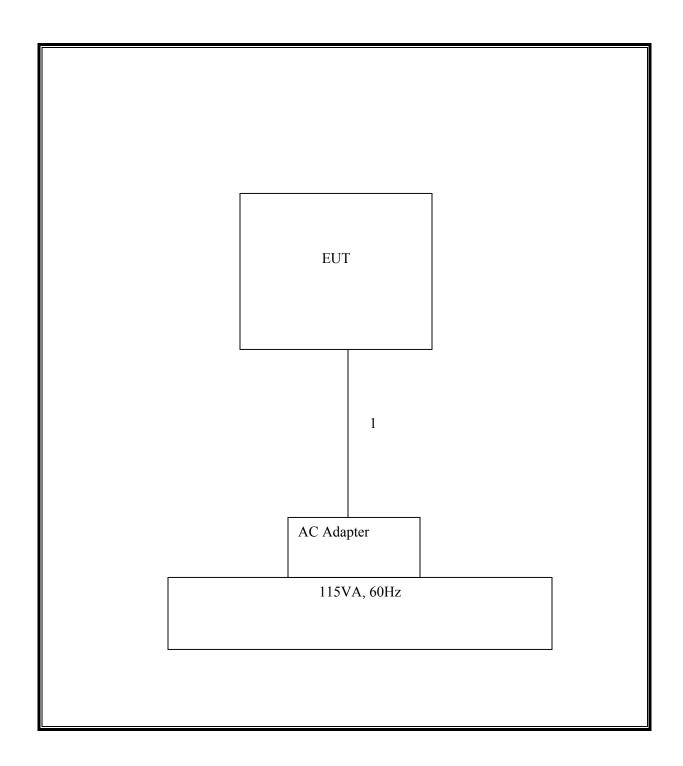
I/O CABLES

	I/O CABLE LIST					
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC	Un-shielded	2m	No

TEST SETUP

The EUT is installed as a stand-alone device during the tests.

SETUP DIAGRAM FOR TESTS



SETUP FOR DIGITAL DEVICE TESTS

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST						
Description	Manufacturer	Model	Serial Number	FCC ID		
Modem	Hayes	4714US	A02247143261	BFJUSA-31719-M5-E		
Printer	HP	2225C	2930S52614	DSI6XU2225		
Mouse	Logitech	M-UA34	LTC70500299	DZL211087		
Laptop	Dell	Latitude D510	NA	DoC		
AC Adapter	Dell	PA-1900-02D	09T215480102CK027	DoC		
Earphone	eAcetech Corp	TS888-03206N	NA	NA		

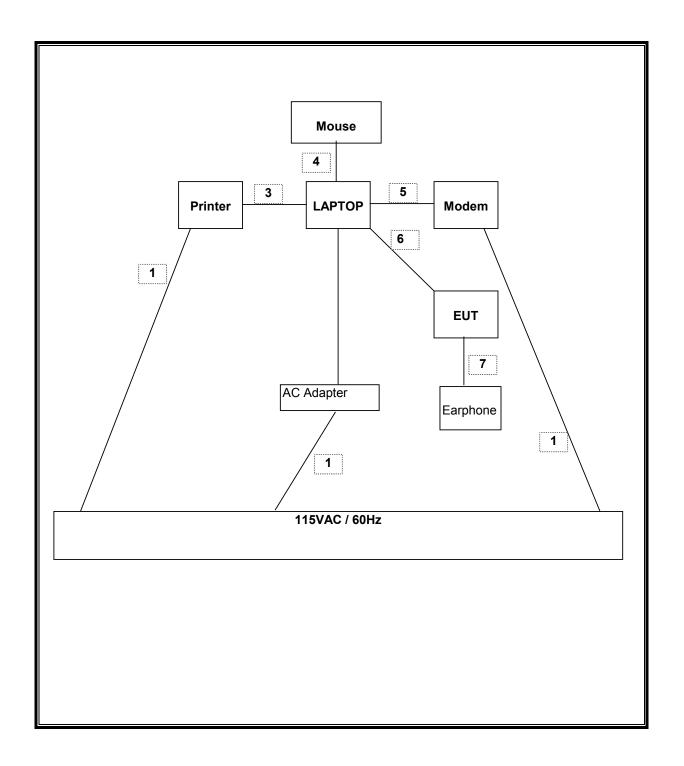
I/O CABLES

	I/O CABLE LIST							
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks		
1	AC	3	US 115V	Un-shielded	2m	No		
2	DC	1	DC	Un-shielded	2m	No		
3	Parallel	1	DB25	Shielded	2m	Yes		
4	Mouse	1	PS/2	Un-shielded	2m	Yes		
5	Serial	1	DB9	Shielded	1m	Yes		
6	USB	1	USB	Un-shielded	1.5m	Yes		
7	Earphone	1	Din	Un-shielded	1m	Yes		

TEST SETUP

The EUT is connected to a laptop computer system with minimum configuration during the tests. Test software exercised and linked with the EUT

SETUP DIAGRAM FOR DIGITAL DEVICE TESTS



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7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	Cal Due	
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent	E4446A	MY43360112	3/28/2006	
Peak Power Meter	Agilent	E4416A	GB41291160	2/9/2006	
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	9/12/2005	
Preamplifier, 1 ~ 26 GHz	Miteq	NSP2600-SP	924341	12/23/2005	
EMI Test Receiver	R & S	ESHS 20	827129/006	6/3/2006	
Site A Line Stabilizer/Conditioner	Tripplite	LC-1800a	A005181	CNR	
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	837990	10/21/2005	
Antenna, Bilog 30MHz ~ 2Ghz	Sunol Sciences	JB1	A121003	3/3/2006	
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	3/29/2006	
RF Filter Section	HP	85420E	3705A00256	3/29/2006	
Peak / Average Power Sensor	Agilent	E9327A	US40440755	2/10/2006	
4.0 High Pass Filter	Micro Tronics	HPM13351	3	N/A	

8. LIMITS AND RESULTS

8.1.1. 6 dB BANDWIDTH

LIMIT

§15.247 (a) (2) For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

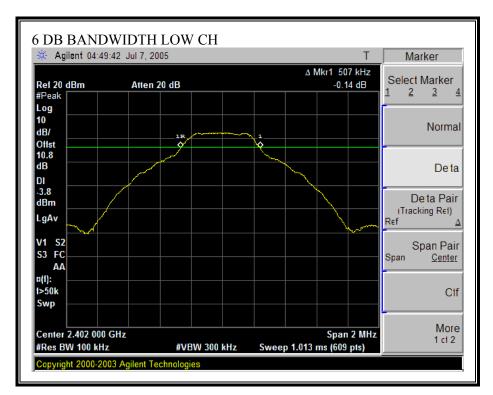
RESULTS

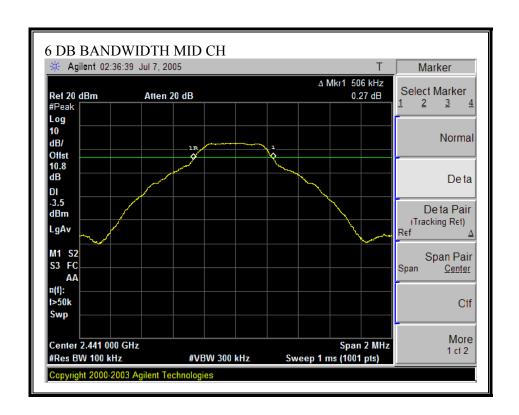
No non-compliance noted:

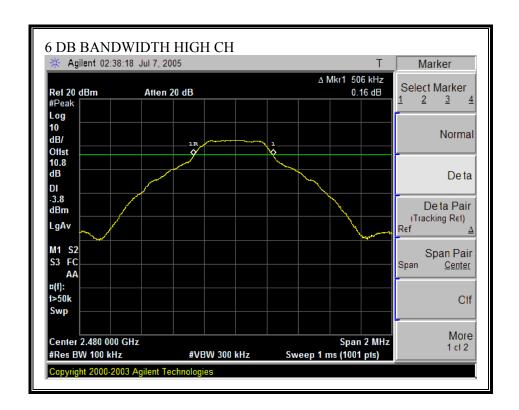
BLUETOOTH

Channel	Frequency	6 dB Bandwidth	Minimum Limit	Margin
	(MHz)	(kHz)	(kHz)	(kHz)
Low	2402	507	500	7
Middle	2441	506	500	6
High	2480	506	500	6

6 DB BANDWIDTH (BLUETOOTH)







8.1.2. 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

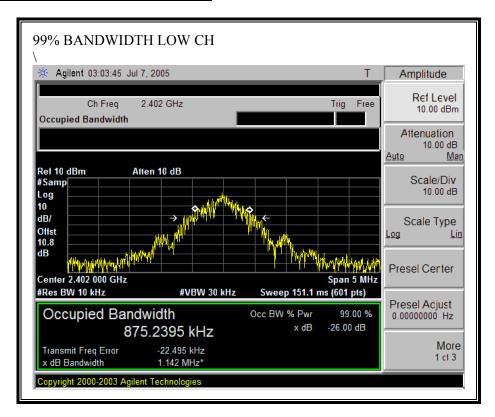
RESULTS

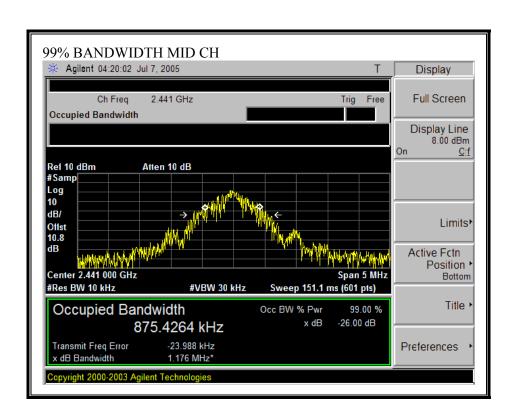
No non-compliance noted:

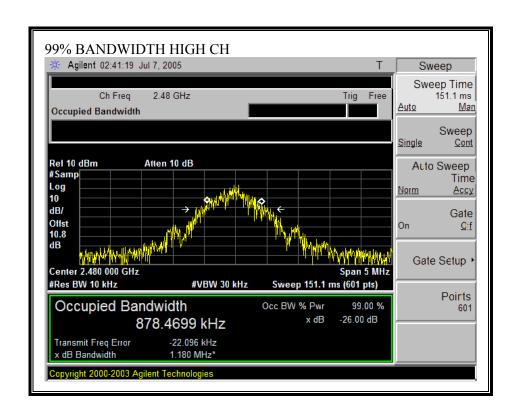
BLUETOOTH

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	2412	875.2395
Middle	2437	875.4264
High	2462	878.4699

99% BANDWIDTH (BLUETOOTH MODE)







8.1.3. PEAK OUTPUT POWER

PEAK POWER LIMIT

§15.247 (b) The maximum peak output power of the intentional radiator shall not exceed the following:

\$15.247 (b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz , and 5725-5850 MHz bands: 1 watt.

§15.247 (b) (4) Except as shown in paragraphs (b)(4) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

§15.247 (b) (4) (i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth

RESULTS

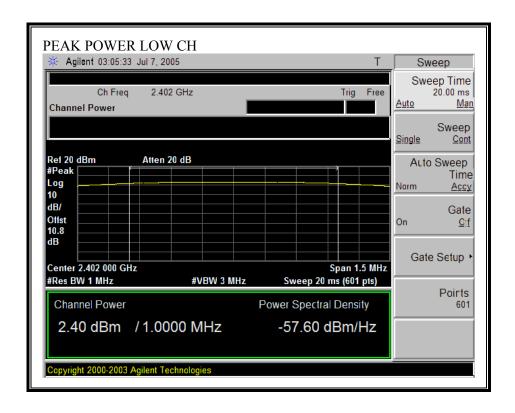
The maximum antenna gain is 0 dBi of Bluetooth for other than fixed, point-to-point operations, therefore the limit is 30 dBm.

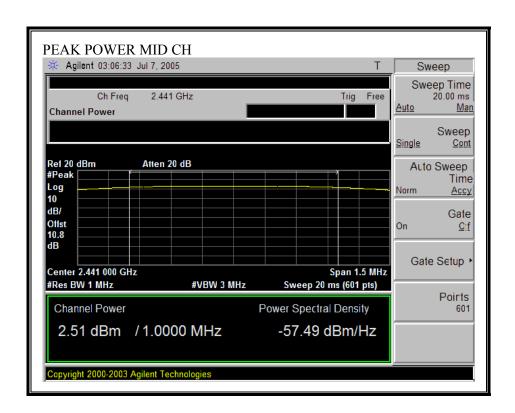
No non-compliance noted:

BLUETOOTH

Channel	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Margin (dB)
Low	2402	2.40	30	-27.60
Middle	2441	2.51	30	-27.49
High	2480	2.25	30	-27.75

OUTPUT POWER (BLUETOOTH MODE)





8.1.4. AVERAGE POWER

AVERAGE POWER LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

No non-compliance noted:

The cable assembly insertion loss of 10.75 dB (including 10 dB pad and 0.75 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

BLUETOOTH

Channel	Frequency	Power	
	(MHz)	(dBm)	
Low	2402	2.19	
Middle	2441	2.13	
High	2480	1.91	

8.1.5. PEAK POWER SPECTRAL DENSITY

LIMIT

§15.247 (d) For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer, the maximum level in a 3 kHz bandwidth is measured with the spectrum analyzer using RBW = 3 kHz and VBW > 3 kHz, sweep time = span / 3 kHz, and video averaging is turned off. The PPSD is the highest level found across the emission in any 3 kHz band.

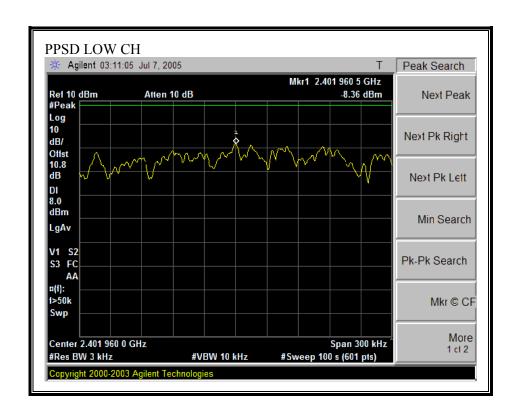
RESULTS

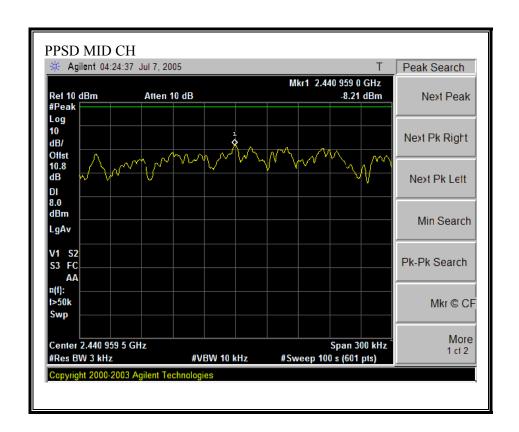
No non-compliance noted:

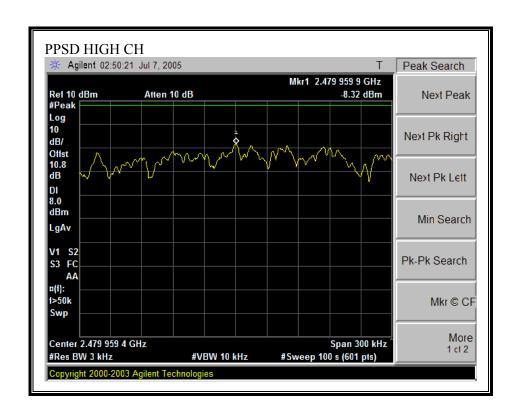
BLUETOOTH

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-8.36	8	-16.36
Middle	2441	-8.21	8	-16.21
High	2480	-8.32	8	-16.32

PEAK POWER SPECTRAL DENSITY (BLUETOOTH MODE)







8.1.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

§15.247 (c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

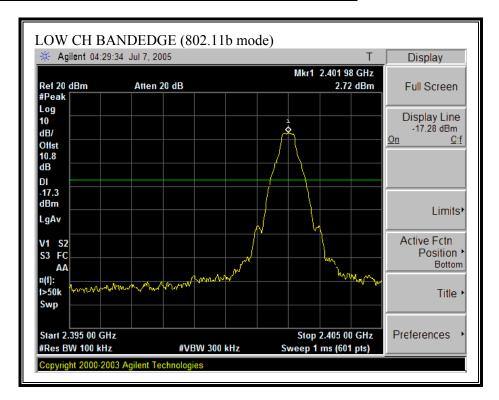
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

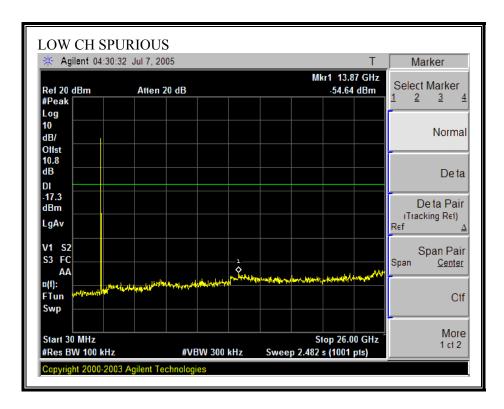
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

RESULTS

No non-compliance noted:

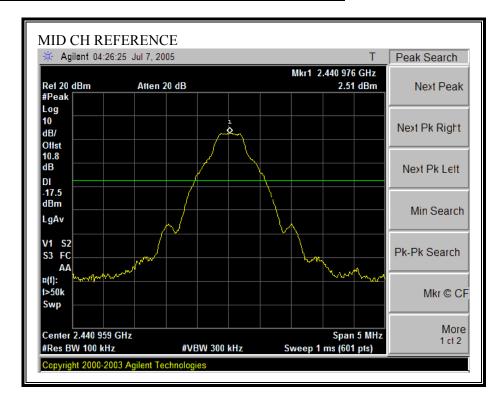
SPURIOUS EMISSIONS, LOW CHANNEL (BLUETOOTH MODE))

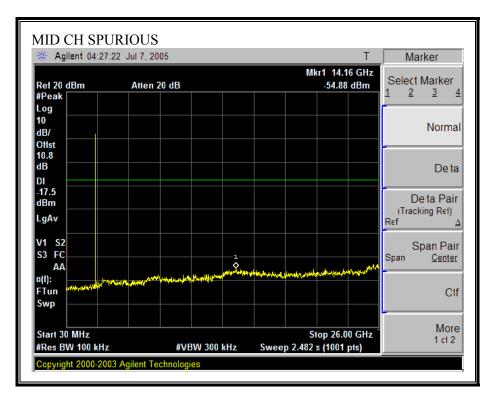




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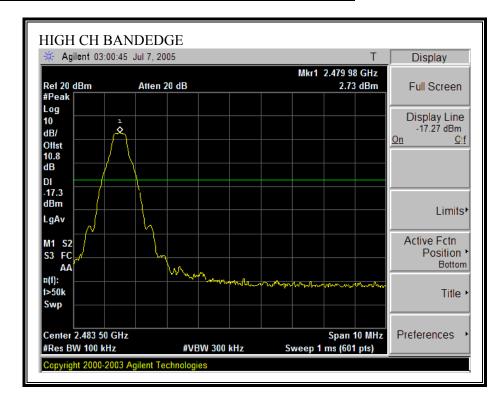
SPURIOUS EMISSIONS, MID CHANNEL (BLUETOOTH MODE

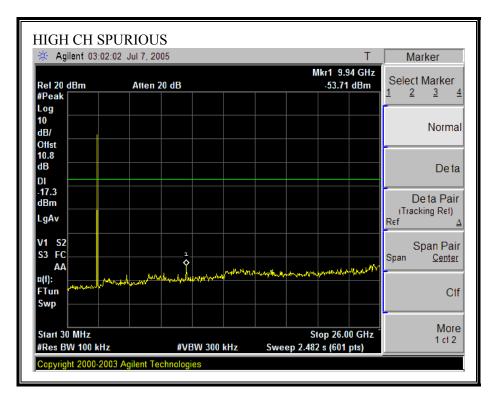




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SPURIOUS EMISSIONS, HIGH CHANNEL (BLUETOOTH MODE





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8.2. RADIATED EMISSIONS

8.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	$\binom{2}{}$
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

REPORT NO: 05T3458-2 DATE: JULY 14, 2005 FCC ID: NM8TNDF **EUT: SMART PHONE**

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

^{§15.209 (}b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

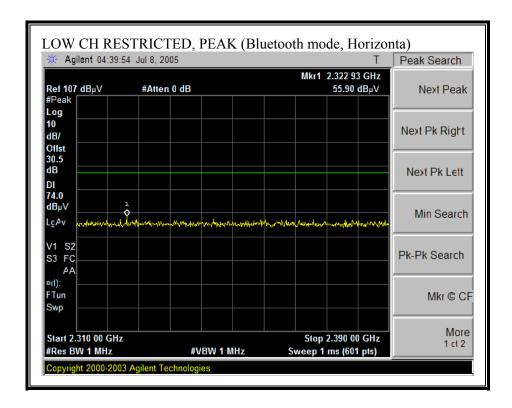
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

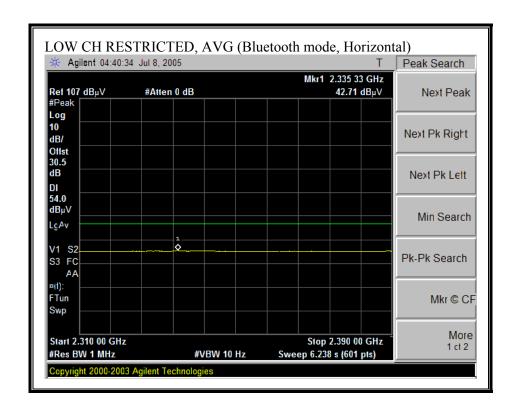
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

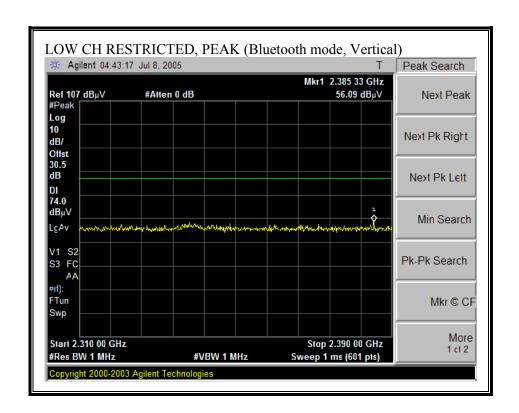
8.2.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND

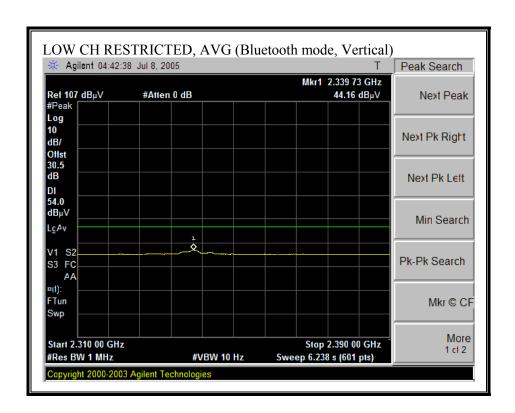
RESTRICTED BANDEDGE (BLUETOOTH MODE, LOW CHANNEL, HORIZONTAL)



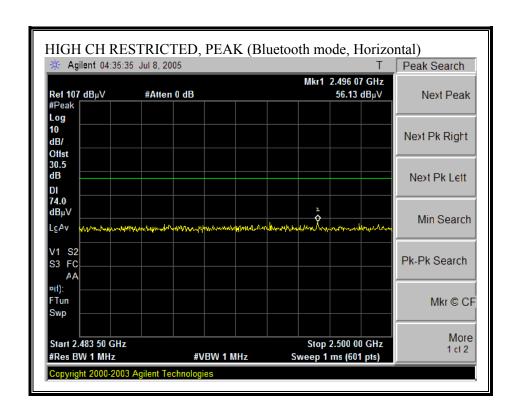


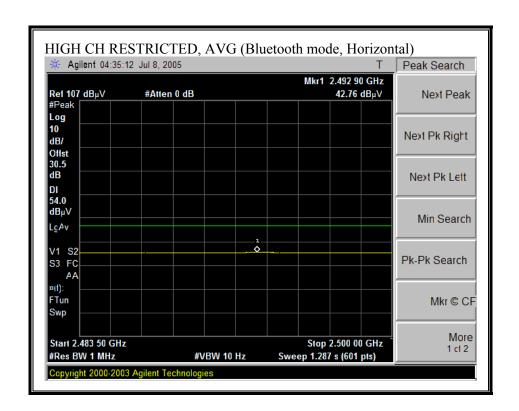
RESTRICTED BANDEDGE (Bluetooth mode, VERTICAL)



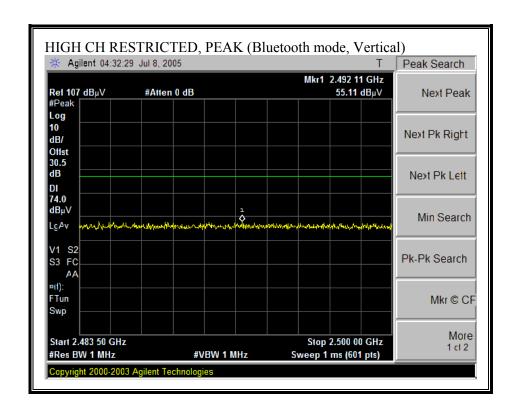


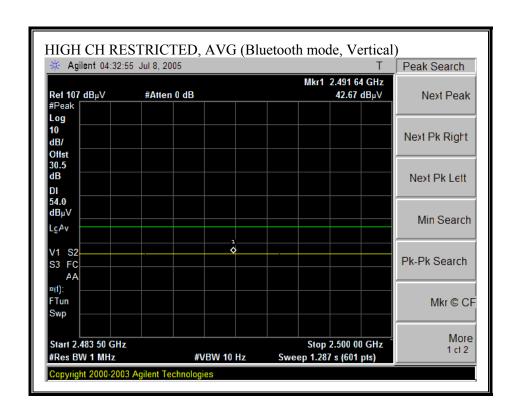
RESTRICTED BANDEDGE (BLUETOOTH MODE, HIGH CHANNEL, HORIZONTAL)



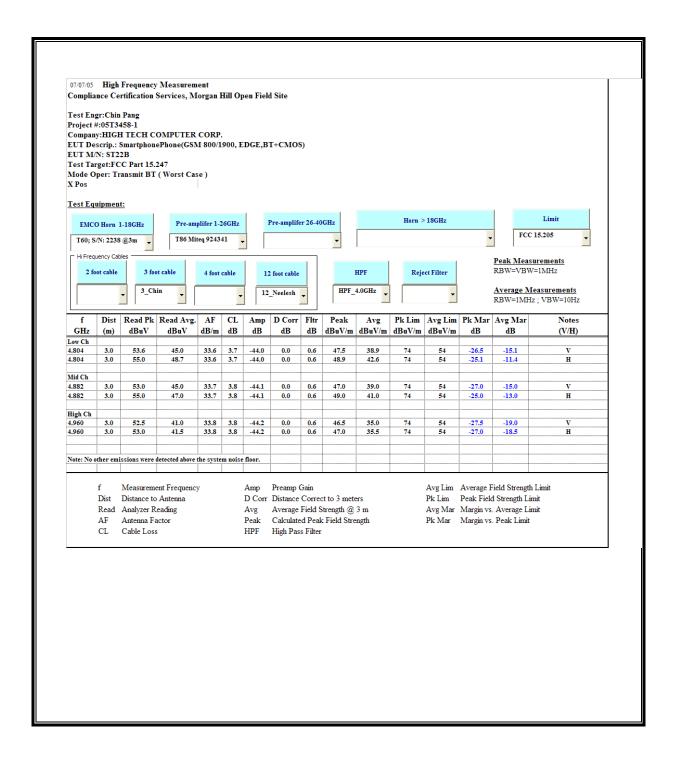


RESTRICTED BANDEDGE (BLUETOOTH MODE, HIGH CHANNEL, VERTICAL)





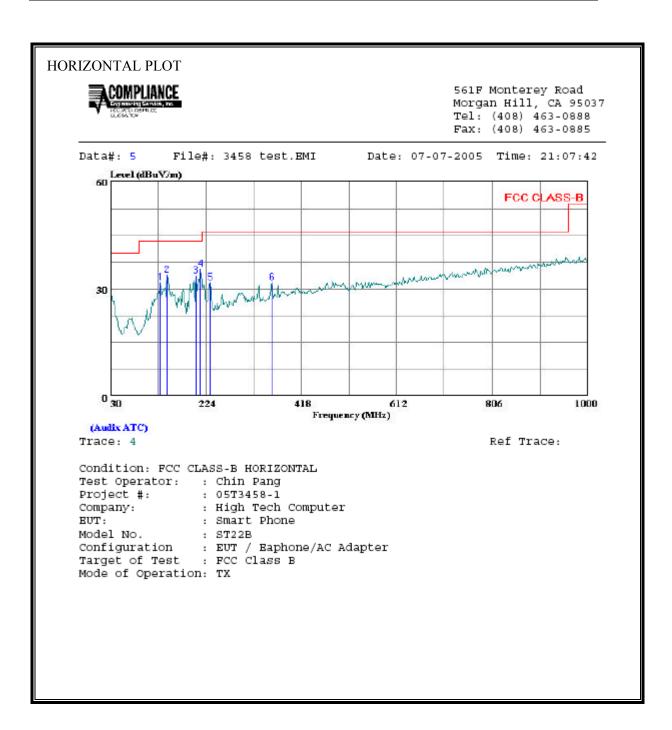
HARMONICS AND SPURIOUS EMISSIONS (BLUETOOTH MODE)



8.2.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

TX MODE AT WORST CASE:

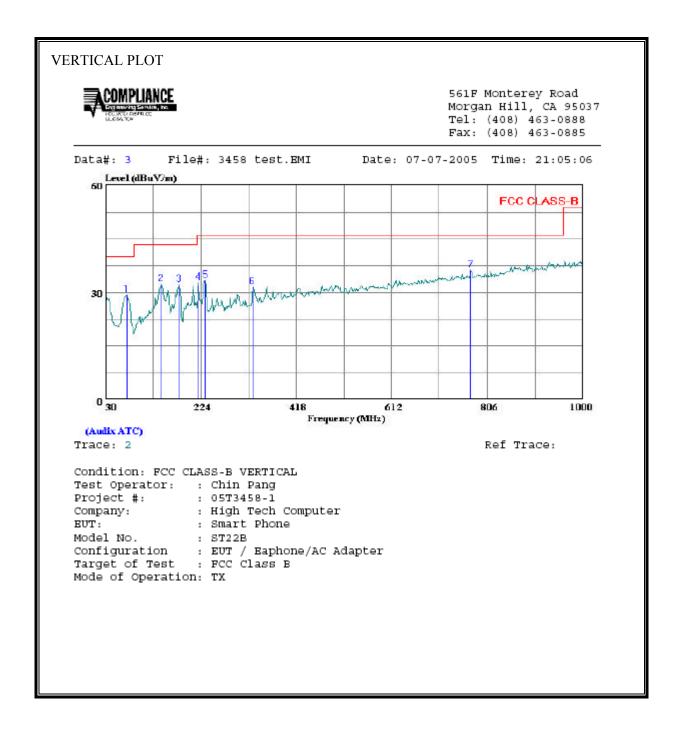
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL DATA

		Read			Limit	Over		Pa	age:	1
	Freq	Level	Factor	Level	Line	Limit	Remark			
	MHZ	₫BuV	dB	$\overline{\mathtt{d}}\overline{\mathtt{BuV/m}}$	dBu√/m	dB				
1	130.880	16.62	15.09	31.71	43.50	-11.79	Peak			
2	145.430	19.25	14.54	33.79	43.50	-9.72	Peak			
3	203.630	19.58	14.01	33.59	43.50	-9.91	Peak			
4	213.330	22.83	12.71	35.54	43.50	-7.96	Peak			
5	232.730	18.52	13.17	31.69	46.00	-14.31	Peak			
5	358.830	14.70	17.12	31.82	46.00	-14.18	Peak			

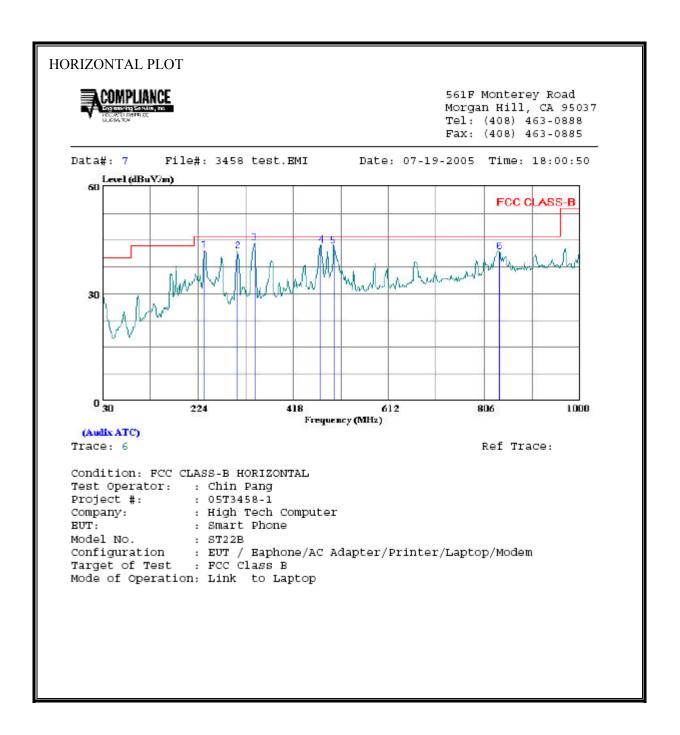
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VERTICAL DATA Page: 1 Limit over Freq Level Factor Level Line Limit Remark dB dBuV/m dBuV/m MHz dΒ 1 72.680 20.09 9.23 29.32 40.00 -10.68 Peak 143.490 17.70 14.63 32.33 43.50 -11.18 Peak 2 19.19 13.03 32.22 43.50 -11.28 Peak 20.21 12.51 32.72 46.00 -13.28 Peak 3 179.380 218.180 232.730 20.24 13.17 33.41 46.00 -12.59 Peak 329.730 15.13 16.44 31.57 46.00 -14.43 Peak 771.080 12.23 24.17 36.40 46.00 -9.60 Peak

LINKING MODE:

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

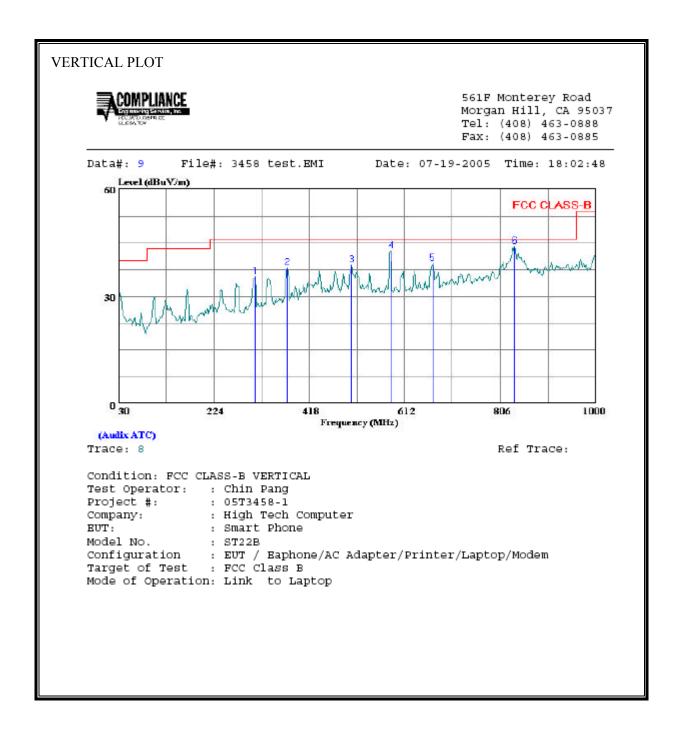


HORIZONTAL DATA

	Ω		

	Freq	Read Level		Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	$\overline{\mathtt{d}}\overline{\mathtt{BuV/m}}$	$\overline{\mathtt{dBuV}/\mathtt{m}}$	dB	
1	237.580	28.77	13.39	42.16	46.00	-3.84	Peak
2	305.480	26.05	15.80	41.85	46.00	-4.15	Peak
3	339.430	27.72	16.61	44.33	46.00	-1.67	Peak
4	474.260	23.97	19.73	43.69	46.00	-2.31	Peak
5	500.450	23.15	20.23	43.38	46.00	-2.62	Peak
6	836.070	16.58	25.06	41.65	46.00	-4.35	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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8.3. POWERLINE CONDUCTED EMISSIONS

LIMIT

 $\S15.207$ (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	Quasi-peak	Average		
0.15-0.5	66 to 56 *	56 to 46 *		
0.5-5	56	46		
5-30	60	50		

Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

No non-compliance noted:

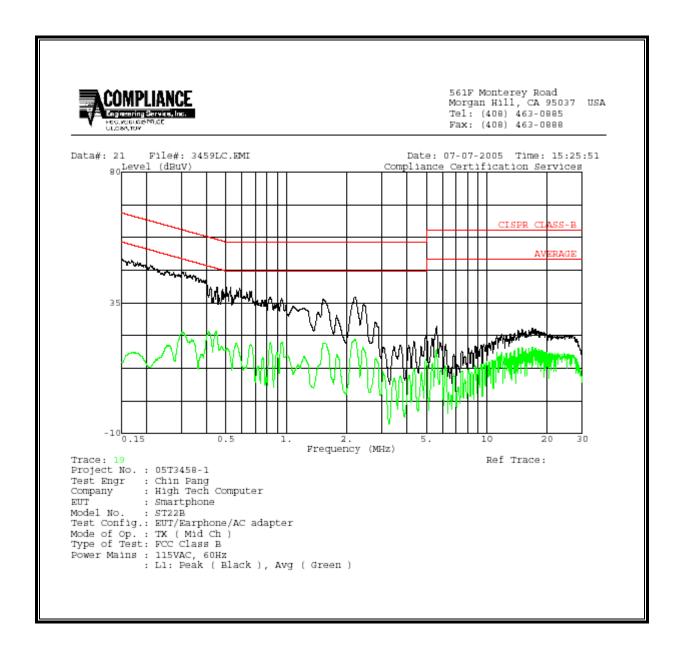
REPORT NO: 05T3458-2 DATE: JULY 14, 2005 EUT: SMART PHONE FCC ID: NM8TNDF

TX MODE AT WORST CASE:

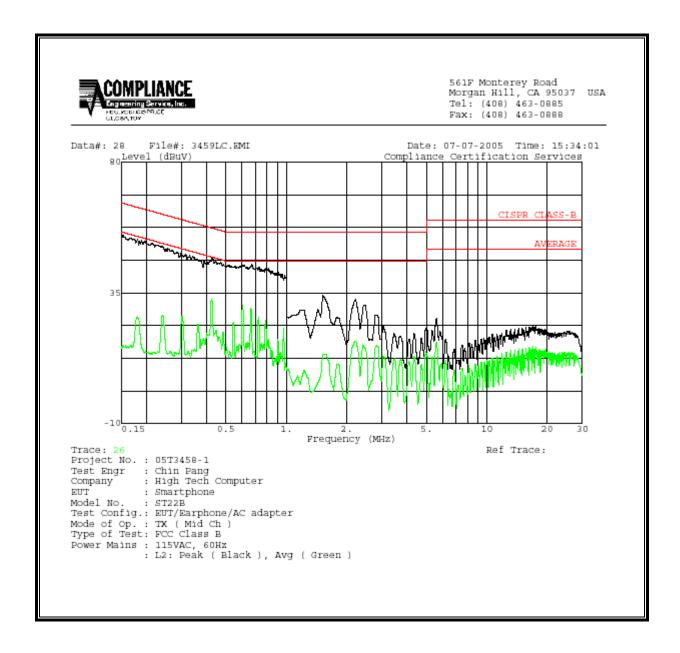
6 WORST EMISSIONS

	CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2	
0.16	49.36		18.02	0.00	65.67	55.67	-16.31	-37.65	L1	
0.30	45.62		24.99	0.00	60.19	50.19	-14.57	-25.20	L1	
0.67	39.10		20.66	0.00	56.00	46.00	-16.90	-25.34	L1	
0.17	53.83		26.63	0.00	65.11	55.11	-11.28	-28.48	L2	
0.43	46.94		32.73	0.00	57.29	47.29	-10.35	-14.56	L2	
0.67	44.54		29.70	0.00	56.00	46.00	-11.46	-16.30	L2	
6 Worst I	Data									

LINE 1 RESULTS



LINE 2 RESULTS



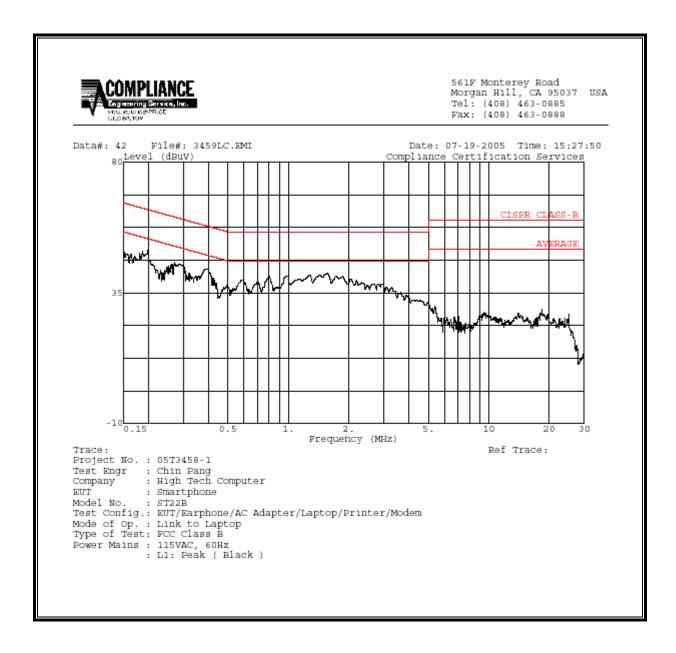
REPORT NO: 05T3458-2 DATE: JULY 14, 2005 EUT: SMART PHONE FCC ID: NM8TNDF

LINKING MODE:

6 WORST EMISSIONS

	CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2	
0.20	49.80			0.00	63.61	53.61	-13.81	-3.81	L1	
0.39	43.16			0.00	58.00	48.00	-14.84	-4.84	L1	
1.54	41.54			0.00	56.00	46.00	-14.46	-4.46	L1	
0.21	49.78			0.00	63.24	53.24	-13.46	-3.46	L2	
0.41	43.20			0.00	57.59	47.59	-14.39	-4.39	L2	
1.01	39.89			0.00	56.00	46.00	-16.11	-6.11	L2	
6 Worst I	Data									

LINE 1 RESULTS



LINE 2 RESULTS

