



FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4 : 2003

TEST REPORT

For

T505 BT Car Kit

Model : T505

Trade Name : Motorola

Issued for

Motorola Inc.

**600 N. U.S. Highway 45 Libertyville,
Illinois 60048-5343 United States**

Issued by

Compliance Certification Services Inc.

Hsinchu Lab.

Rm. 258, Bldg. 17, NO.195, Sec.4 Chung Hsing Rd.,
ChuTung Chen, Hsinchu, Taiwan 310, R.O.C

TEL: (03) 591-0068

FAX: (03) 582-5720



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1. TEST REPORT CERTIFICATION

Applicant : Motorola Inc.
Address : 600 N. U.S. Highway 45 Libertyville,
 Illinois 60048-5343 United States
Equipment Under Test : T505 BT Car Kit
Model : T505
Trade Name : Motorola
Tested Date : August 27 ~ September 06, 2007

APPLICABLE STANDARD	
STANDARD	TEST RESULT
FCC Part 15 Subpart C:2006 AND ANSI C63.4:2003	No non-compliance noted

Approved by:

S. B. Lu

S. B. Lu
Manager of Hsinchu Laboratory
Compliance Certification Services Inc.

Reviewed by:

Jerry Chang



Jerry Chang
Test Engineer of Hsinchu Laboratory
Compliance Certification Services Inc.

WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.



2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

Product Name	T505 BT Car Kit
Model Number	T505
Frequency Range	88.3MHz ~ 107.9MHz
Transmit Power	47.51 dB μ V/m
Channel Number	99 Channel
Type of Modulation	FM
Power Source	12VDC (From DC Source)

Car Charger :

No.	Manufacturer	Model No.	Power Input	Power Output
1	Motorola	SYN1630A	10.8 ~ 33 Vcc	4.75 ~ 5.25 Vcc

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*
- 2. This submittal(s) (test report) is intended for FCC ID: IHDT6HF1 filing to comply with Section 15.239 of the FCC Part 15, Subpart C Rules.*
- 3. For more details, please refer to the User's manual of the EUT.*



3. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	88.3
Middle	98.1
High	107.9

The field strength of spurious emission was measured in the following position : EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis)and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.239.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Rm.258, Bldg.17, NO.195 , Sec. 4, Chung Hsing Rd., Chu-Tung Chen. Hsin-Chu, Taiwan 310 R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.







Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200118-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 90585 and 90584).

**5.4 TABLE OF ACCREDITATIONS AND LISTINGS**

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP	EN 55014-1, AS/NZS 1044, CNS 13783-1, IEC/CISPR 14-1, IEC/CISPR 22, EN 55022, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, AS/NZS CISPR 22, AS/NZS 3548, IEC 61000-4-2/3/4/5/6/8/11	 200118-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 90585, 90584
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	 R-1229/1189 C-1250/1294
Taiwan	TAF	FCC Method-47 CFR Part 15 Subpart C,D,E CISPR 11, FCC METHOD-47 CFR Part 18, EN 55011, CNS 13803, CISPR 13, CNS 13439, FCC Method-47 CFR Part 15 Subpart B, CISPR 14-1, EN 55014-1, CNS 13783-1, EN 55015, CNS 14115, CISPR 22, EN 55022, VCCI CNS 13438, EN 61000-4-2/3/4/5/6/8/11	 Testing Laboratory 0240
Taiwan	BSMI	CNS 13803, CNS 13438, CNS 13439, CNS 13783-1, CNS 14115	 SL2-IS-E-0002 SL2-IN-E-0002 SL2-A1-E-0002 SL2-R1-E-0002 SL2-R2-E-0002 SL2-L1-E-0002
Canada	Industry Canada	RSS-GEN Issue 2	 IC 4417-1

* No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.



6. CALIBRATION AND UNCERTAINTY

6.1 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.

6.2 MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 1000 MHz	+/- 3.2 dB
Radiated Emission, 1 to 26.5GHz	+/- 3.2 dB
Power Line Conducted Emission	+/- 2.1 dB

Uncertainty figures are valid to a confidence level of 95%



7. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	DC Power Supply	Angilent	E3642A	MY40005388	Doc

SETUP DIAGRAM FOR TESTS

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8. APPLICABLE LIMITS AND TEST RESULTS

8.1 20dB BANDWIDTH

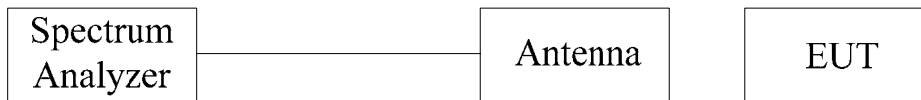
LIMIT

Limit : N/A

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006

TEST SETUP



TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 10KHz, VBW RBW, Span = 500KHz, Sweep = auto.
4. Mark the peak frequency and 20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

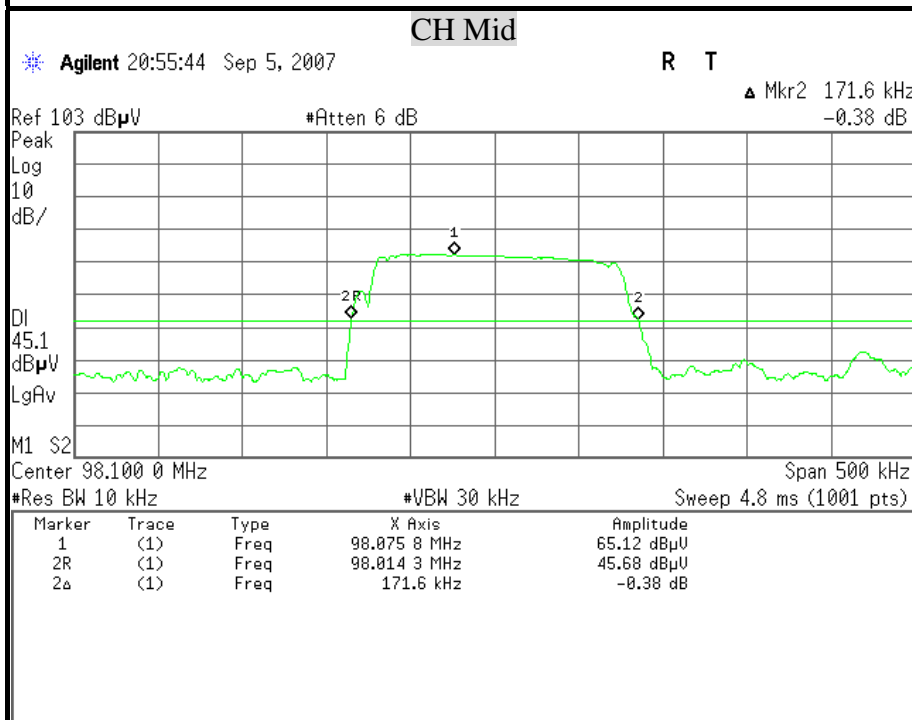
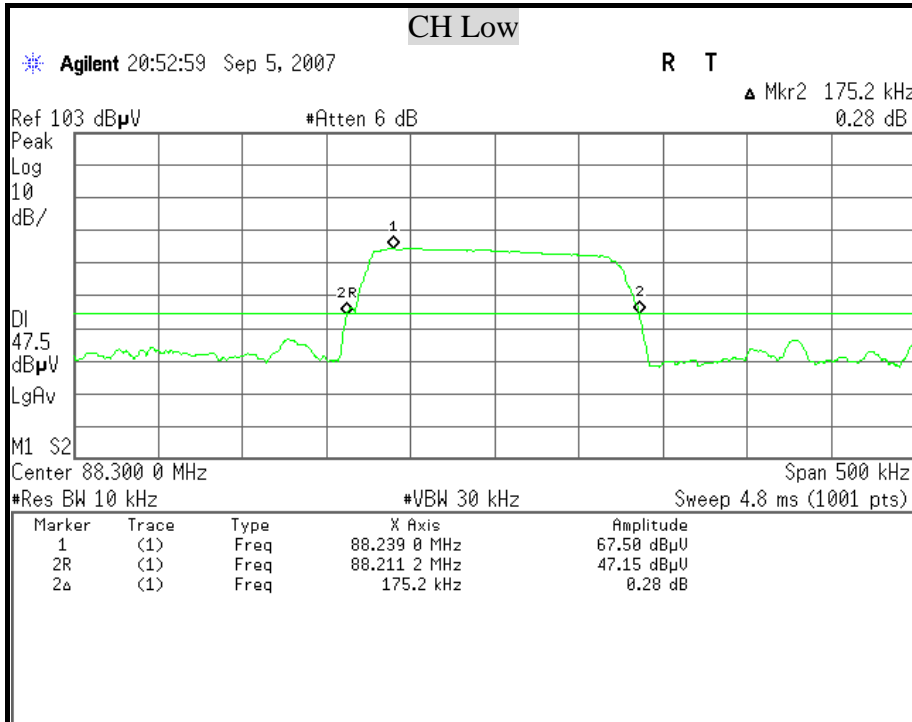
TEST RESULTS

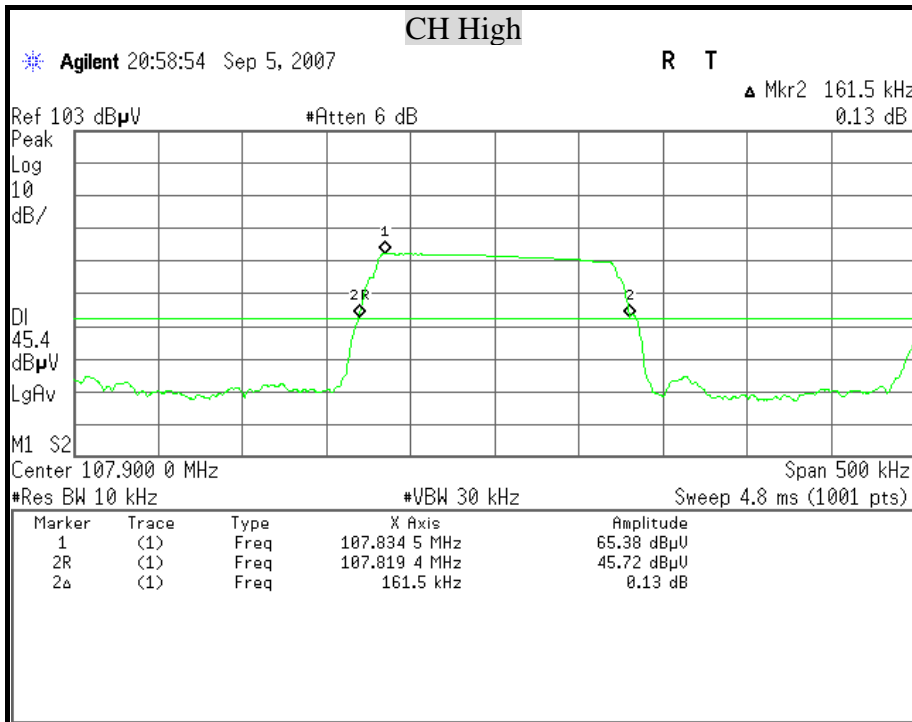
No non-compliance noted

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Pass / Fail
Low	88.3	175.2	N/A
Middle	98.1	171.6	N/A
High	107.9	161.5	N/A



20dB BANDWIDTH







8.2 RADIATED EMISSIONS

8.2.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (b) The field strength of any emissions within the permitted 200kHz band shall not exceed 250 microvolts / meter at 3meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

§ 15.205 (c) The field strength of any emissions radiated on any frequency outside of the specified 200kHz band shall not exceed the general radiated emission limits in Section 15.209.

§ 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 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

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

² Above 38.6

§ 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.



§ 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.

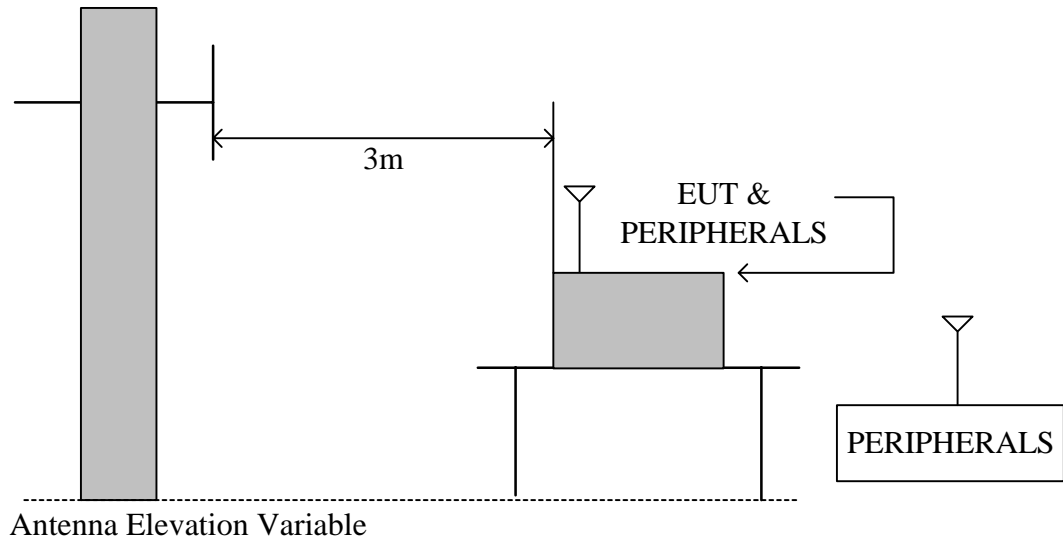
TEST EQUIPMENT

The following test equipment is utilized in making the measurements contained in this report.

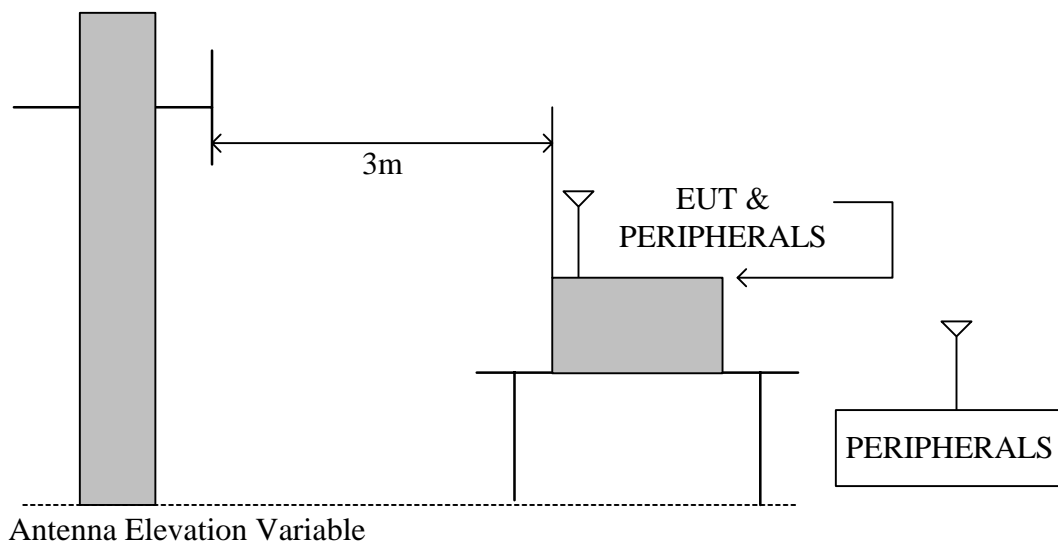
Manufacturer or Type	Model No.	Serial No.	Date of Calibration	Calibration Period	Remark
CHASE BILOG ANTENNA	CBL6112B	2817	August 28, 2007	1 Year	FINAL
R/S SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006	1 Year	FINAL
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007	1 Year	FINAL
R/S EMI TEST RECEIVER	ESCS30	835418/008	September 02, 2007	1 Year	FINAL
OPEN SITE	-----	No.2	May 07, 2007	1 Year	FINAL
BELDEN N TYPE COAXIAL CABLE	9913-30M	001	August 21, 2007	1 Year	FINAL
Horn Antenna	AH-118	10089	August 30, 2007	1 Year	FINAL
Horn Antenna	AH-840	03077	February 25, 2007	1 Year	FINAL
Agilent Pre-amplifier	8449B	3008A01471	December 25, 2006	1 Year	FINAL
HP Amplifier	8447D	1937A02748	December 25, 2006	1 Year	FINAL
HP High pass filter	84300/80038	002	CAL. ON USE	1 Year	FINAL
HP High pass filter	84300/80039	003	CAL. ON USE	1 Year	FINAL
Loop Antenna ETS-LINDGREN	6502	2356	June 15, 2007	1 Year	FINAL

TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



**TEST PROCEDURE**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 1 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

No non-compliance noted

**8.2.2 TRANSMITTER RADIATED EMISSION**

Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH Low / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Horizontal polarity						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Mark (P/Q/A)
88.23	54.54	-18.59	35.95	68.00	-32.05	P
88.23	54.30	-18.59	35.71	48.00	-12.29	A
Spurious Harmonics Emission / Horizontal polarity						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Mark (P/Q/A)
71.71	43.99	-17.65	26.34	40.00	-13.66	P
149.31	41.76	-13.19	28.57	43.50	-14.93	P
197.81	37.90	-16.71	21.19	43.50	-22.31	P
317.12	35.77	-12.59	23.18	46.00	-22.82	P
372.41	39.82	-11.81	28.01	46.00	-17.99	P
558.65	35.19	-8.83	26.36	46.00	-19.64	P

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dB μ V/m) – Quasi-peak limit (dB μ V/m).



Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH Low / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
88.26	68.64	-18.59	50.05	68.00	-17.95	P
88.26	66.10	-18.59	47.51	48.00	-0.49	A
Spurious Harmonics Emission / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
35.82	51.31	-15.15	36.16	40.00	-3.84	P
71.71	56.21	-17.65	38.56	40.00	-1.44	Q
149.31	42.56	-13.19	29.37	43.50	-14.13	P
209.45	40.84	-16.56	24.28	43.50	-19.22	P
342.34	42.02	-12.14	29.88	46.00	-16.12	P
372.41	42.80	-11.81	31.00	46.00	-15.00	P
413.15	37.80	-11.23	26.57	46.00	-19.43	P

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH Mid / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Horizontal polarity						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Mark (P/Q/A)
98.06	53.64	-17.88	35.76	68.00	-32.24	P
98.06	52.80	-17.88	34.92	48.00	-13.08	A
Spurious Harmonics Emission / Horizontal polarity						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Mark (P/Q/A)
71.71	43.01	-17.65	25.37	40.00	-14.63	P
150.28	40.39	-13.13	27.26	43.50	-16.24	P
197.81	36.40	-16.71	19.69	43.50	-23.81	P
372.41	39.28	-11.81	27.48	46.00	-18.52	P
413.15	36.39	-11.23	25.16	46.00	-20.84	P
547.01	36.02	-9.10	26.92	46.00	-19.08	P

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dB μ V/m) – Quasi-peak limit (dB μ V/m).



Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH Low / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
98.05	66.45	-17.88	48.58	68.00	-19.42	P
98.05	63.90	-17.88	46.02	48.00	-1.98	A
Spurious Harmonics Emission / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
35.82	51.63	-15.15	36.48	40.00	-3.52	P
71.71	56.03	-17.65	38.38	40.00	-1.62	Q
149.31	43.15	-13.19	29.96	43.50	-13.54	P
209.45	40.32	-16.56	23.76	43.50	-19.74	P
342.34	43.24	-12.14	31.11	46.00	-14.89	P
372.41	43.29	-11.81	31.49	46.00	-14.51	P

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH High / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Horizontal polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
107.84	53.75	-16.85	36.90	68.00	-31.10	P
107.84	52.10	-16.85	35.25	48.00	-12.75	A
Spurious Harmonics Emission / Horizontal polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
71.71	43.77	-17.65	26.12	40.00	-13.88	P
149.31	42.16	-13.19	28.97	43.50	-14.53	P
197.81	37.07	-16.71	20.36	43.50	-23.14	P
372.41	40.06	-11.81	28.25	46.00	-17.75	P
534.40	35.04	-9.29	25.74	46.00	-20.26	P
571.26	33.83	-8.51	25.32	46.00	-20.68	P

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	T505 BT Car Kit	Test Date	2007/09/05
Model Name	T505	Test By	Jerry Chang
Test Mode	CH High / X axis	TEMP & Humidity	23°C, 51%

Fundamental Frequency / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
107.84	63.20	-16.85	46.35	68.00	-21.65	P
107.84	61.10	-16.85	44.25	48.00	-3.75	A
Spurious Harmonics Emission / Vertical polarity						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Mark (P/Q/A)
35.82	51.58	-15.15	36.43	40.00	-3.57	P
71.71	56.42	-17.65	38.77	40.00	-1.23	Q
149.31	42.68	-13.19	29.49	43.50	-14.01	P
209.45	40.81	-16.56	24.25	43.50	-19.25	P
344.28	43.95	-12.11	31.84	46.00	-14.16	P
372.41	42.79	-11.81	30.99	46.00	-15.01	P

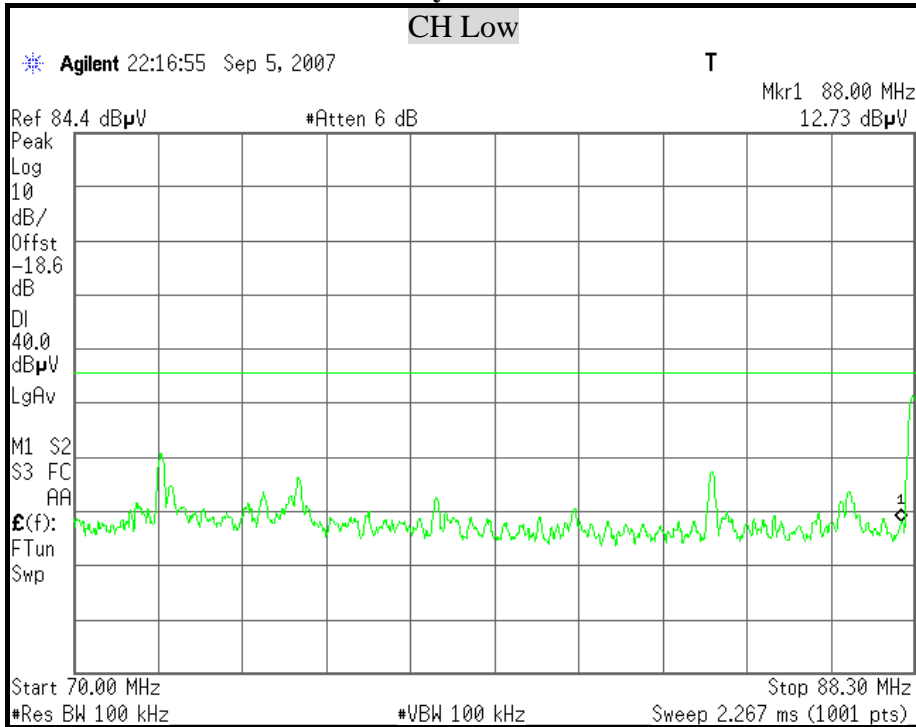
Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

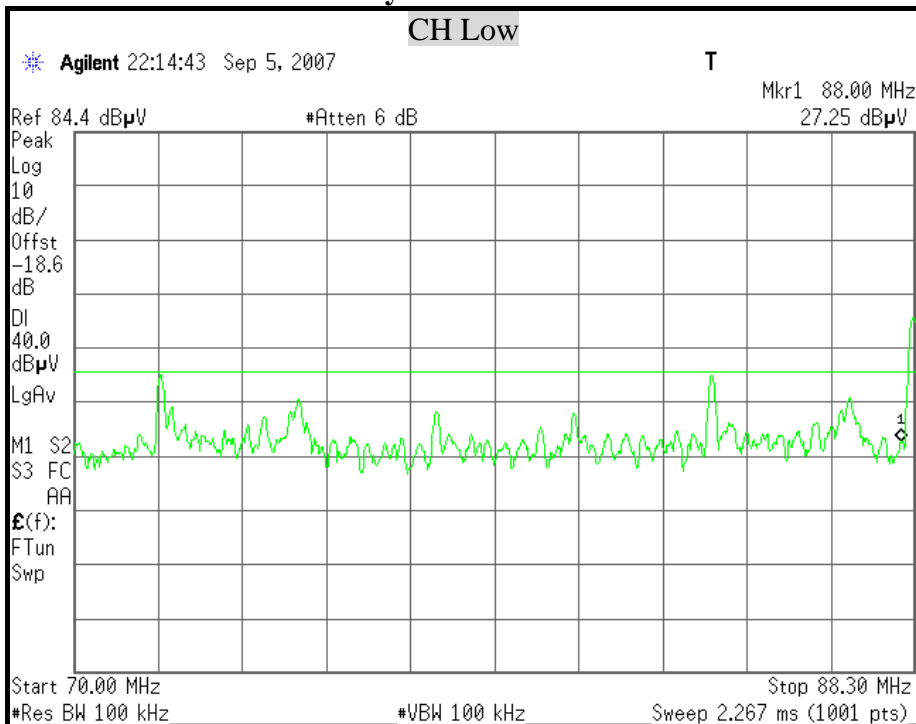


8.2.3 RESTRICTED BAND EDGES

Polarity : Horizontal

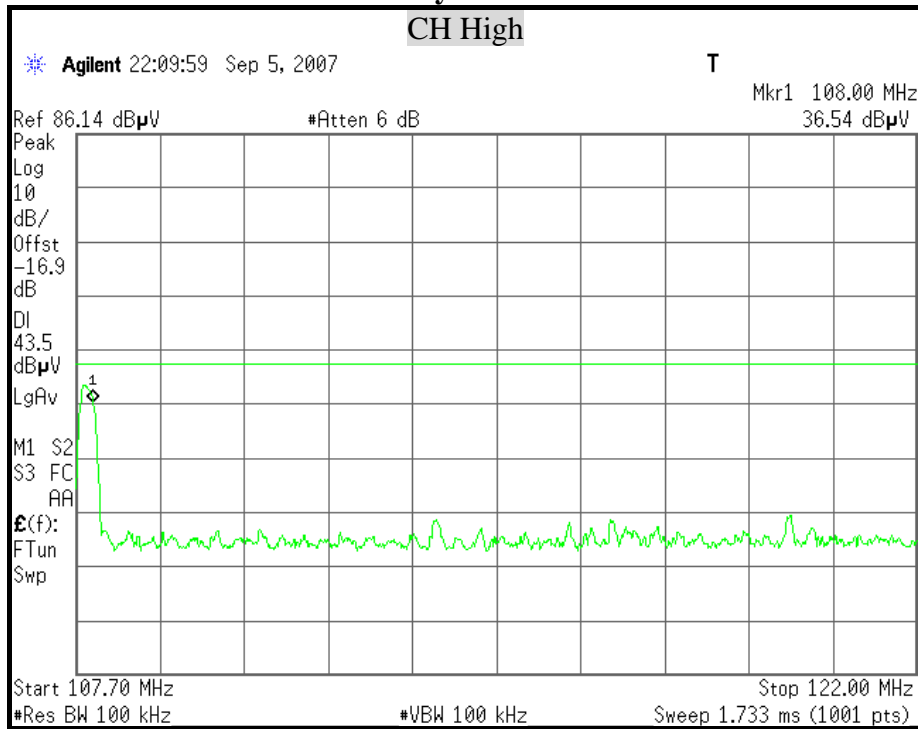


Polarity : Horizontal

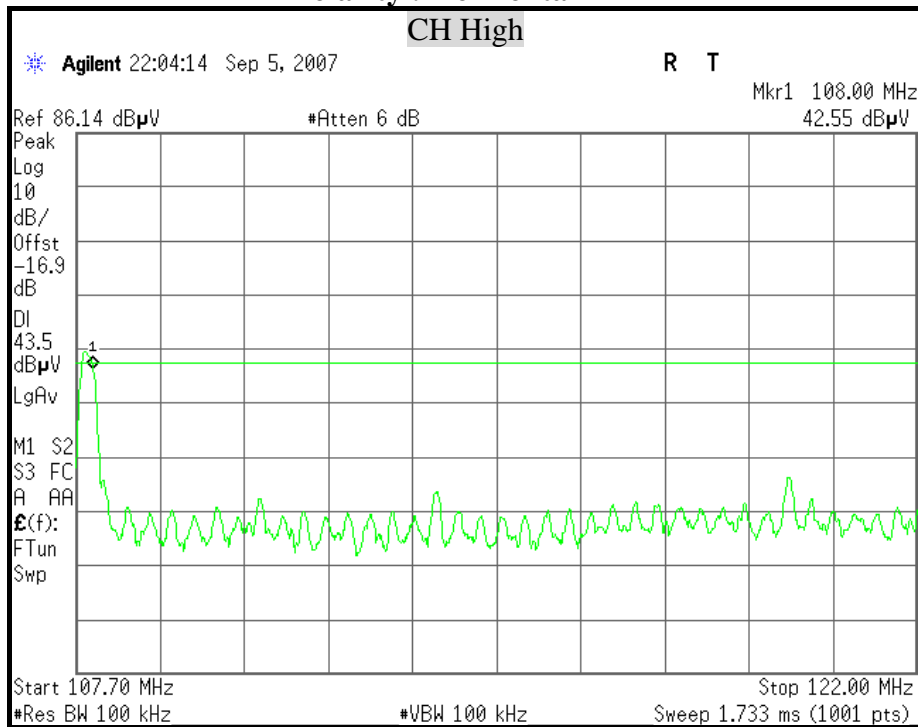




Polarity : Horizontal



Polarity : Horizontal





8.3 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) 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 (dB μ v)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.5 - 5	56	46
5 - 30	60	50

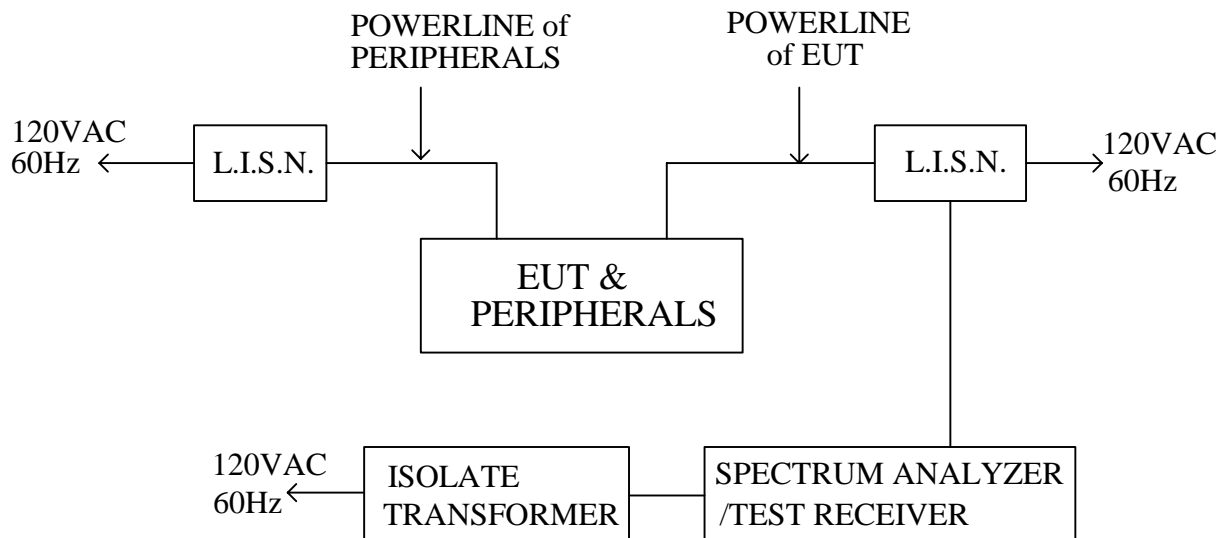
TEST EQUIPMENT

The following test equipment is used during the conducted powerline tests :

Manufacturer or Type	Model No.	Serial No.	Date of Calibration	Calibration Period	Remark
EMCO L.I.S.N.	3810/2	9801-1850	February 26, 2007	1 Year	FINAL
CHASE L.I.S.N	NNLK 8129	8129118	January 26, 2007	1 Year	FINAL
R & S TEST RECEIVER	ESHS30	838550/003	January 31, 2007	1 Year	FINAL
KEENE SHIELDED ROOM	5983	No.1	N/A	N/A	FINAL
R & S PULSE LIMIT	EHS3Z2	357.8810.52	July 10, 2007	1 Year	FINAL
N TYPE COAXIAL CABLE	-----	-----	August 21, 2007	1 Year	FINAL



TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm 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 quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

No non-compliance noted

Sine this EUT is powered by DC Source, this test item is not applicable.