REV	Δ	Description	Sheet Effected	Date	Drawn	Checked
A				04.01.04	D.Lanuel	S.Cohen

EMC Laboratory

Mobile Unit
MU-800

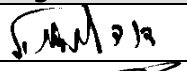
Satellite Tracking and Reporting System

FCCID :LSQ-MU-800
Manufactured by
Elmotech Ltd.

EMC Test Report

According FCC Part 15 Requirements

January 04

	Function/Title	Name	Signature	Date
Prepared by	Test Engineer	D.Lanuel		04.01.04
Approved by	EMC Lab. Manager	S.Cohen		04.01.04

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1 Test Data Information

a. Description of equipment Under Test.

Equipment Under Test:	Satellite Tracking and Reporting System
FCCID	LSQ-MU-800
Manufacturer:	Elmotech Ltd.
Serial Numbers:	0001
Mode of Operation:	RX MODE
Receiver operating frequwency:	318MHZ
Year of Manufacture:	2003

b. Applicant Information:

Applicant:	Elmotech Ltd.
Applicant Address	2, Habarzel Street Tel-Aviv
Telephone:	+972-3-6478871
FAX:	+972-3-6478872
The testing was observed by following applicant's personnel:	Natan Galperin

c. Test Performance:

Date of reception for testing: 25.12.03
Dates of testing 26.12.03
Test Laboratory Location TADIRAN EMC LAB , Hashoftim 26 Holon 58102 ISRAEL
Tel: 972-3-5574476 Fax: 972-3-5575320

Applicable EMC Specification: Federal Communication Commission (FCC),
Code of Federal Regulations 47,
FCC Docket 89-103,Part 15: Radio Frequency Devices, Sections 15.107 & 15.109

2 Test Summary and Signatures.

TADIRAN EMC Laboratory has completed testing of E.U.T in accordance with the requirements of the FCC Part 15 Regulations for Class B equipment.

The E.U.T has been found to comply with the emission requirements of the FCC Part 15 Regulations for parts 15.107 & 15.109

a. Test performed by:

Mr. D. Lanuel Test Engineer

b. Test Report prepared by:

Mr. D. Lanuel Test Engineer

c. Test Report Approved by:

Mr. Samuel Cohen EMC Lab. Manager

3 General Information

a. Specification Reference

Section 15.107:Limits of Mains Terminal Interference Voltage (Conducted Emission) in The 0.15MHz to 30MHz frequency range for unintentional radiators

Section 15.109: Limits of Radiated Interference Field Strength in the 30MHz to 4000MHz frequency range.

b. Applicable Documents.

3.1 Federal Communication Commission (FCC), Code of Federal Regulations 47, FCC Docket 89-103, Part 15: Radio Frequency Devices, Sections 15.107 & 15.109.

3.2 FCC/OET, Laboratory Measurement Procedures MP-4, July 1987, "FCC Procedures for Measuring RF Emissions from Computing Devices".

3.3 FCC/Office of Science and Technology OST-55, August 1982, "Characteristics of Open Field Test Sites".

3.4 FCC/OET, "FCC Procedure for Measuring Electromagnetic Emissions from Digital Devices", TP-5, March 1989.

3.5 FCC/OET, "Understanding the FCC Regulations Concerning Computing Devices", OST-62, May 1984

3.6 International Special Committee On Radio Interference (CISPR) Publication 16, First Edition 1977, "CISPR Specification for Radio Interference Measuring Apparatus and Measurement Methods".

3.7 American National Standard, "Specifications for Electromagnetic Noise and Field Strength Instrumentation, 9KHz to 1GHz", ANSI C63.2, 1987.

3.8 American National Standard, "Method of Measurement Electromagnetic Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9KHz to 40GHz", ANSI C63.4, 1992.

4 Administrative Data

a. Scope

This document describes the measurement procedures and tests for Radiated testing of the LSQ-MU-800 Manufactured by Elmotech Ltd.

b. Administrative Data

The test was performed by the TADIRAN / EMC Laboratory, 26 Hashoftim St. P.O.B. 267, 58102 Holon, ISRAEL.

c. Certification And Qualifications

I Certify that TADIRAN / EMC Laboratory. Conducted the tests performed in order to obtain a technical data presented in this application. Also based on the results of this enclosed data I have concluded that the equipment tested meets or exceeds the requirements of the Rules and regulations governing this application.

TADIRAN / EMC Laboratory, 26 Hashoftim St. P.O.B. 267, 58102 Holon, ISRAEL was established in 1975 to provide Electromagnetic Compatibility testing, Consulting and Engineering. All facility are equipped with modern Automated test equipment and staffed with experienced EMC test engineers. Engineering support is a standard feather of our sites, we are ready to support and assist our customers in meeting the compliance requirements.

Our qualifications include:
Quality assurance MIL-I-45208A
Calibration per MIL-STD-45662A
FCC Listed
ISO 9001 Approved By The International Certification Network "IQNet"
ISO 9001 Approved By the Standards Institute of Israel.
Approved by I.D.F for Compliance with regulation.
Approved by I.A.F for Compliance with regulation

TADIRAN / EMC Laboratory has previously performed FCC testing of similar equipment. Appendix A includes an FCC approval of our application for licensing of a previous generation of a Transceiver product operating under the requirements of FCC part 15.247 for intentional radiator equipment. As well as evidence for our accreditation by ISO 9001 & listing by FCC.

d. Measurement Repeatability information

The test data presented in this report has been acquired using the guidelines set forth in FCC Part 15 .The test data presented in this document are valid only for the equipment identified under the test conditioned described. Repeatability of these tests results will only be achieved with identical test conditions. This conditions include: the same test distance, E.U.T height, measurement site characteristics and the same E.U.T System components, The system must have the same interconnecting cables arranged in identical placement to that in the test set-up, with the system and /or E.U.T functioning in identical mode of operation (i.e. software and so on) as on the date of the test. Any deviation from the test conditions and the environment on the date of test may result in measurement repeatability difficulties. All changes made to the E.U.T during the course of testing as identified in this test report must be incorporated into the E.U.T or identical modes to ensure compliance with the FCC regulations.

e. Measuring Equipment Calibration

(1) Receiving System Calibration

The equipment calibration is traceable. Calibration is performed under the MIL-STD-45662A requirements

f. Antennas calibration

Biconical and Log-periodic antennas are calibrated by using the reference antenna method according to ANSI C63.5-1988, when the reference antenna is the Robert's antenna.

Double-ridged guide antennas (1-18 GHz) are calibrated by using two identical antenna methods according to ANSI C63.2-1987 and SAE ARP-958

Calibration of listed above antennas is performed periodically once a year

Robert antenna is calibrated every three years by using the reference antenna method according to ANSI C63.5-1988, when the reference antenna is the calibrated Robert antenna.

Antennas, which are used according to military standards tests, are calibrated every two years by using two identical antenna methods according to SAE ARP-958.

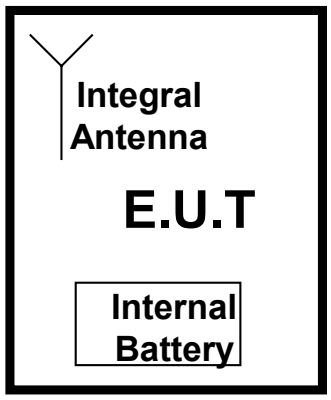
5 e.u.t information

a. E.U.T description

The EUT, MU-800-2 (Mobile Unit), is a portable receiver unit operating at 318MHz frequency and supplied with monopole antenna. The EUT is powered from mains through 230/110 VAC 12VDC adapter or from 7.2 battery

b. E.U.T Test Configuration

The E.U.T test configuration is shown in figure bellow



c. E.U.T Mode of Operation description

The test was performed to measure Radiated emission at RX Mode

6 Out of Band RADIATED FIELD STRENGTH MEASUREMENT test aCCORDING TO 15.109

Testing Engineer: D.Lanuel Date 26/12/03

a. General

The test was performed to measure Radiated emission at RX Mode

b. Test Results Summary & Conclusions

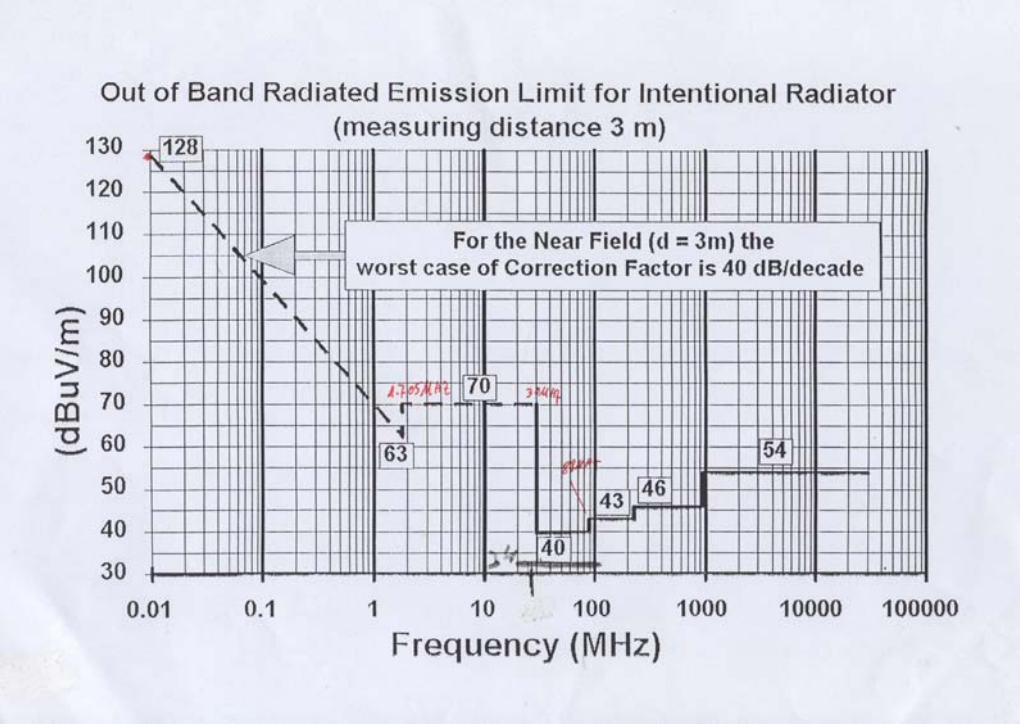
The E.U.T was found in compliance with 15.109 Requirements

c. Limits of Radiated Interference Field Strength according 15.109

The test unit shall meet the limits of Table RE-1 for Class B equipment.

Table RE-1 Limits For Class B equipment

Frequency Range (MHz)	Quasi-peak Limits (dBμV/m)
30 - 88	40
88 - 216	43
216 - 960	46
Above 960	54



d. Test Instrumentation and Equipment

Table RE-2 Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8568A	HP	12/08/04
Spectrum Analyzer	8593E	HP	31/01/04
Broadband Antenna	BTA-L	FRANKONIA	10.04.04
Low Noise Amplifier (0-1GHz)	AM-1300-N	MITEQ	14.01.04
Low Noise Amplifier (1-2GHz)	SMC-09	MITEQ	14.01.04
Low Noise Amplifier (2-6GHz)	MWA-02060-4025	ELISRA	14.01.04

(1) The measuring system block diagram shown in Figure RE-1.
(2) E.U.T orientation and antenna position shown in Figure RE-2

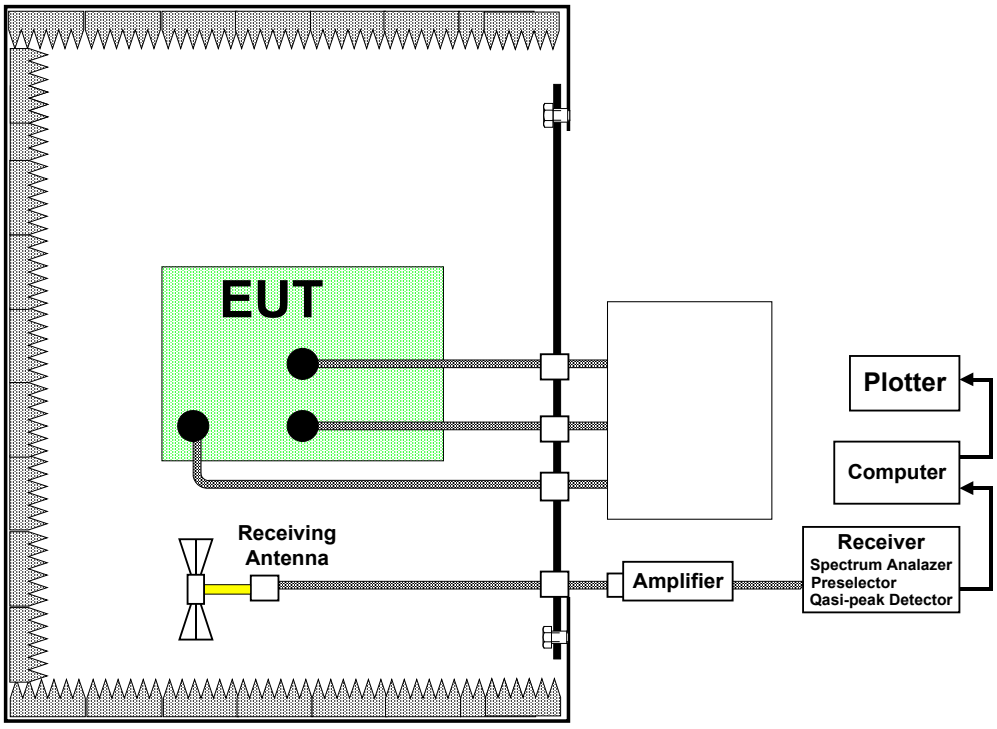


Figure RE-1

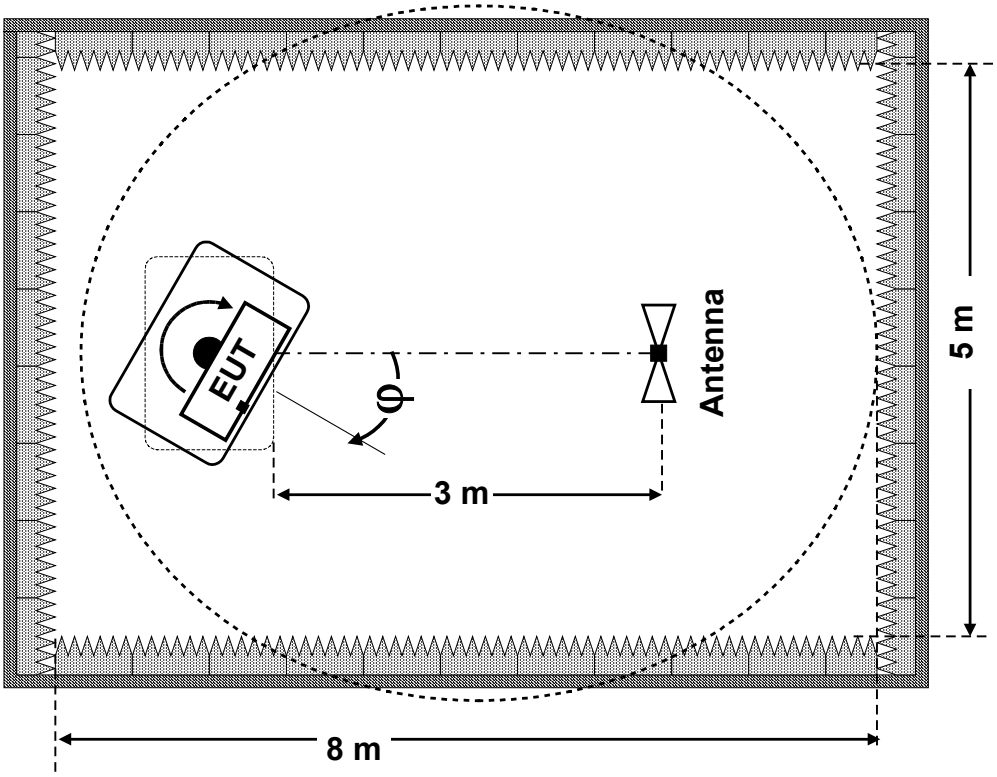


Figure RE-2

1. If cables, which hand closer than 40 cm to the horizontal ground plane cannot be shortened to the appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. The end of I/O signal cables, which are not connected to a peripheral, may be terminated, if required to proper operation using correct terminating impedance.
3 Main junction boxes shall be flush with, and bonded directly to, metal ground plane
4. Cables of hand operated devices such as keyboards, mousses; etc. shall be placed as for normal usage.
5. Peripherals shall be placed at distance 10 cm from each other and from the controller, except for the monitor, which, if for an acceptable installation practice, shall be placed directly on top of the controller.
6. Mains cables, telephone lines or other connections to auxiliary equipment located outside the test area shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turn table. No extension cords shall be used to mains receptacle.
7 Ferrite clamps or ferrite tubes. No more than one cable per clamp.

e. Preliminary Test Procedure

(1) Maintain setup in absorber-lined shielded room as shown in Figures RE-1, RE-2 and RE-3.

(2) Turn on the E.U.T and allow sufficient time for stabilization.

(3) Monitor the frequency range of interest at a fixed antenna height and E.U.T azimuth.

(4) Rotate the E.U.T 360° to maximize the suspected highest amplitude signal.

(5) Move the antenna over its full-allowed range of travel to maximize the suspected highest amplitude signal.

(6) Change the polarity of the antenna and repeat step d and e. compare the result suspected highest amplitude signal with that found for the other polarity. Select and note the higher of the two signals. The signal is termed the highest observed signal with the respect to the limit.

(7) Repeat testing for each operational mode of the E.U.T.

(8) Choose six highest emissions relative to limit and record antenna heights and polarities, E.U.T configuration for each emission frequency.

(9) Perform measurements for selected frequencies using quasi-peak detector.

f. Preliminary Results

Table RE-3 Preliminary Test Results for RX Mode 15.109

Configuration	Antenna Polarization	Freq. Range MHz	Res. BW (kHz)	Plot No.	Compl. Y/N
Calibration		30	120	OK	Y
		200		OK	Y
		1000		OK	Y
RX Mode	Both Hor.&Ver	30-1000	120	Plot RE/1	Y
		1000-2900	1000	Plot RE/2	Y
		2900-4000	1000	Plot RE/3	Y

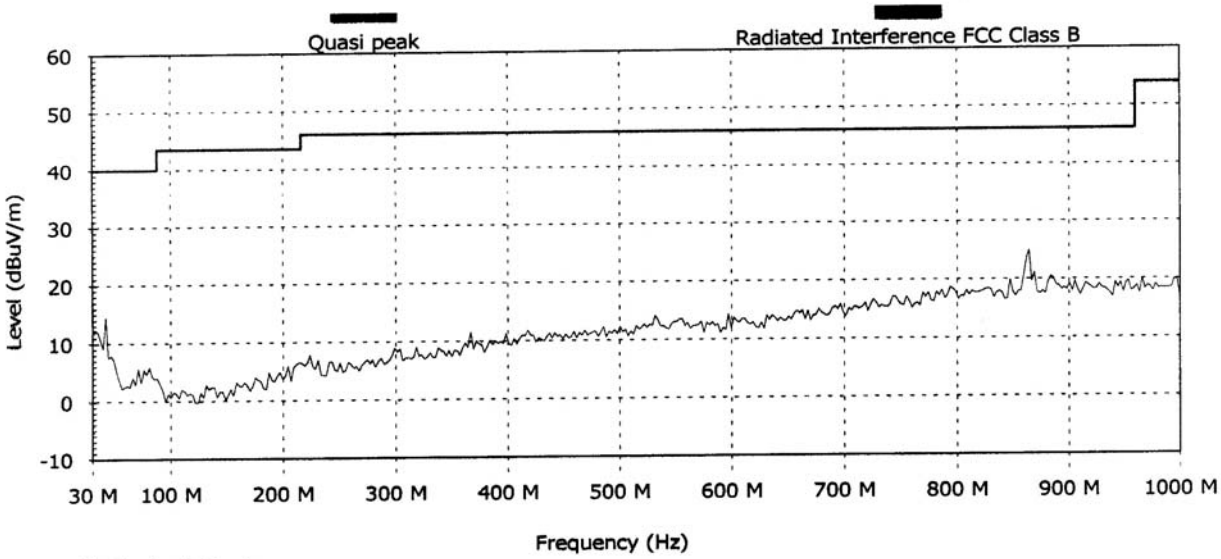
EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: DMATEK
Contact Person:

Radiated Emission

Description: 3) RE FCC 30M-1000M
From 30 MHz to 1000 MHz
Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV/m)	AVG (dBuV/m)	QP (dBuV/m)	RMS (dBuV/m)	PK Limit (dBuV/m)	PK Diff (dBuV/m)	AVG Limit (dBuV/m)	AVG Diff (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	RMS Limit (dBuV/m)	RMS Diff (dBuV/m)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Angle (degrees)	Height (m)

Settings:
Antenna: Horizontal at 3 m
Ref. Level: 70.0 dBuV/m Att: 0 dB. RBW: 120 kHz. VBW: 1000 kHz. Sweep time: 202.083007812
Detect all peaks above 6 dB below the limit lines with a maximum of 6 peaks.

Note:

Plot RE/ 1

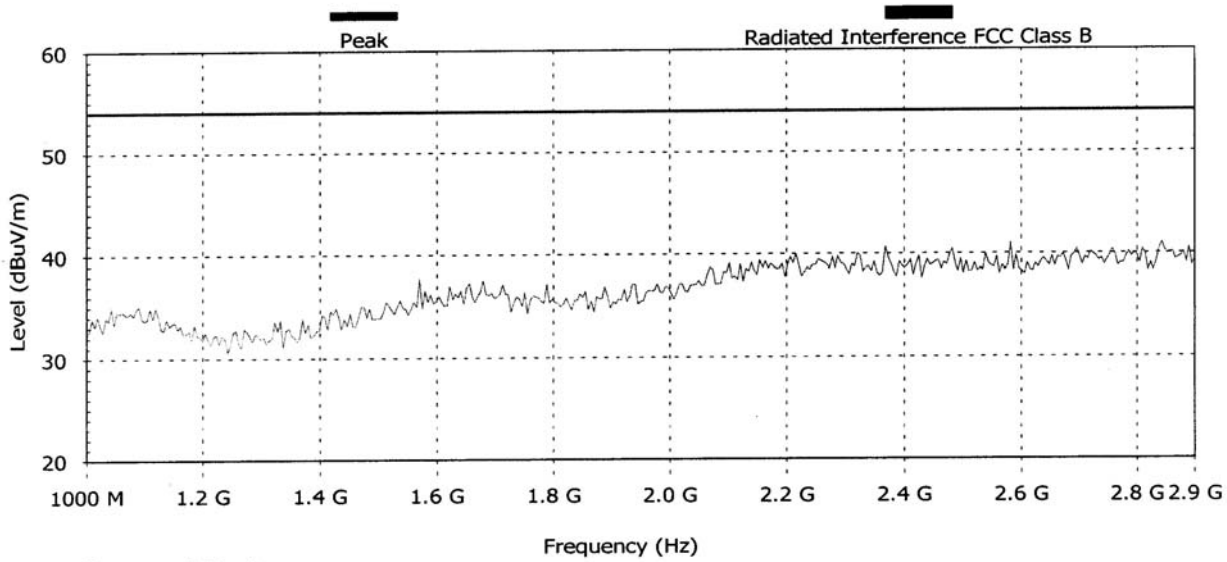
EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: DMATEK
Contact Person:

Radiated Emission

Description: 10) RE FCC 1GHz-2.9GHz
From 1000 MHz to 2900 MHz
Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV/m)	AVG (dBuV/m)	QP (dBuV/m)	RMS (dBuV/m)	PK Limit (dBuV/m)	PK Diff (dBuV/m)	AVG Limit (dBuV/m)	AVG Diff (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	RMS Limit (dBuV/m)	RMS Diff (dBuV/m)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Angle (degrees)	Height (m)

Settings:
Antenna: Horizontal at 3 m
Ref. Level: 70.0 dBuV/m Att: 0 dB. RBW: 1000 kHz. VBW: 1000 kHz. Sweep time: 38 ms.
Detect all peaks above 6 dB below the limit lines with a maximum of 6 peaks.

Note:

Plot RE/ 2

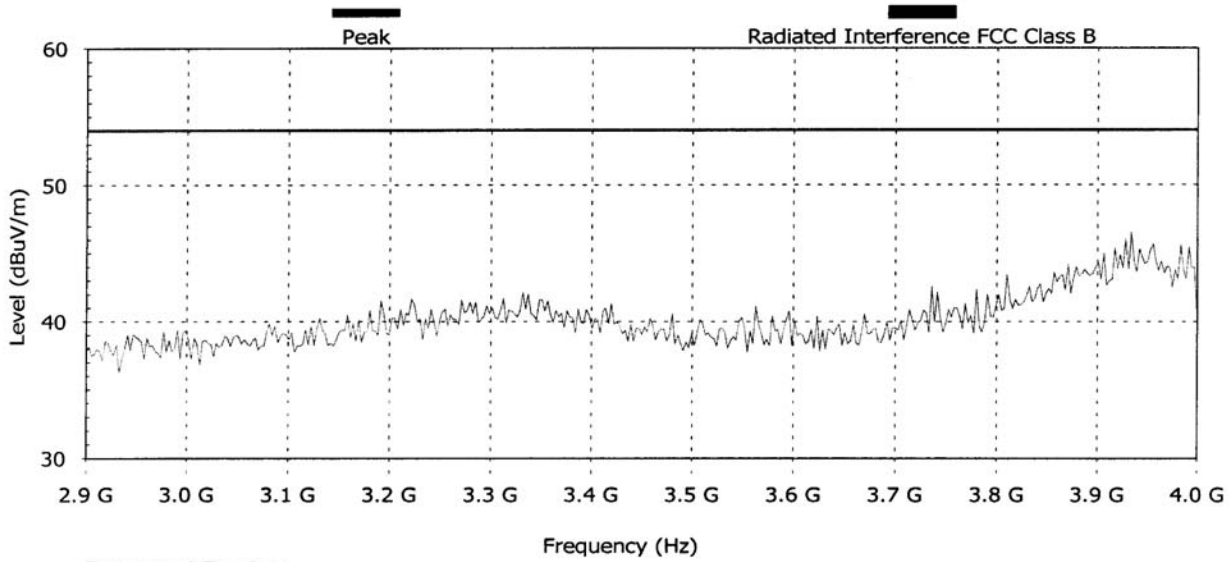
EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: DMATEK
Contact Person:

Radiated Emission

Description: 13) RE FCC 2.9GHz-4GHz with DC_DC
From 2900 MHz to 4000 MHz
Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV/m)	AVG (dBuV/m)	QP (dBuV/m)	RMS (dBuV/m)	PK Limit (dBuV/m)	PK Diff (dBuV/m)	AVG Limit (dBuV/m)	AVG Diff (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	RMS Limit (dBuV/m)	RMS Diff (dBuV/m)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Angle (degrees)	Height (m)

Settings:
Antenna: Horizontal at 3 m
Ref. Level: 70.0 dBuV/m Att: 0 dB. RBW: 1000 kHz. VBW: 1000 kHz. Sweep time: 22 ms.
Detect all peaks above 6 dB below the limit lines with a maximum of 6 peaks.

Note:

Plot RE/ 3

7 Final RADIATED INTERFERENCE FIELD STRENGTH EASUREMENT

Testing Engineer: D.Lanuel Date 26/12/03

a. Test Instrumentation and Equipment

Table RE-A Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Cal.
Spectrum Analyzer	8568B+opt 462	HP	12.08.04
Preselector	85685A	HP	12.08.04
Quasi-Peak Detector	85650	HP	12.08.04
Broadband Antenna	BTA-L	FRANKONIA	10.04.04
Computer	PENTIUM	IBM Comp.	N.P.C.R

b. Test Setup

(1) The measuring system block diagram shown in Figure RE-A.
(2) E.U.T orientation and antenna position shown in Figure RE-B
(3) Cables configuration shown in Figure RE-C

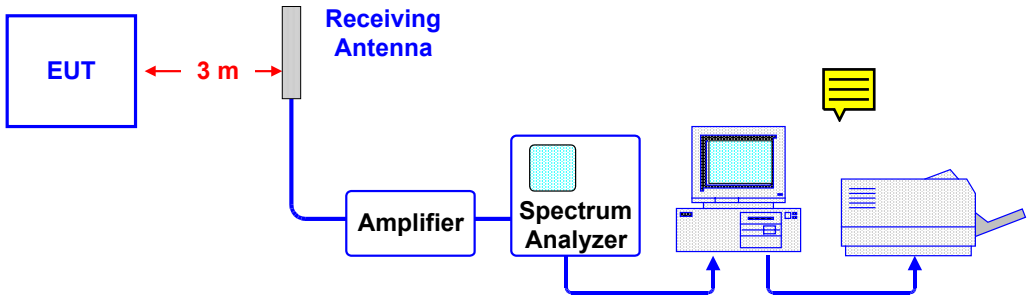


Figure RE-A

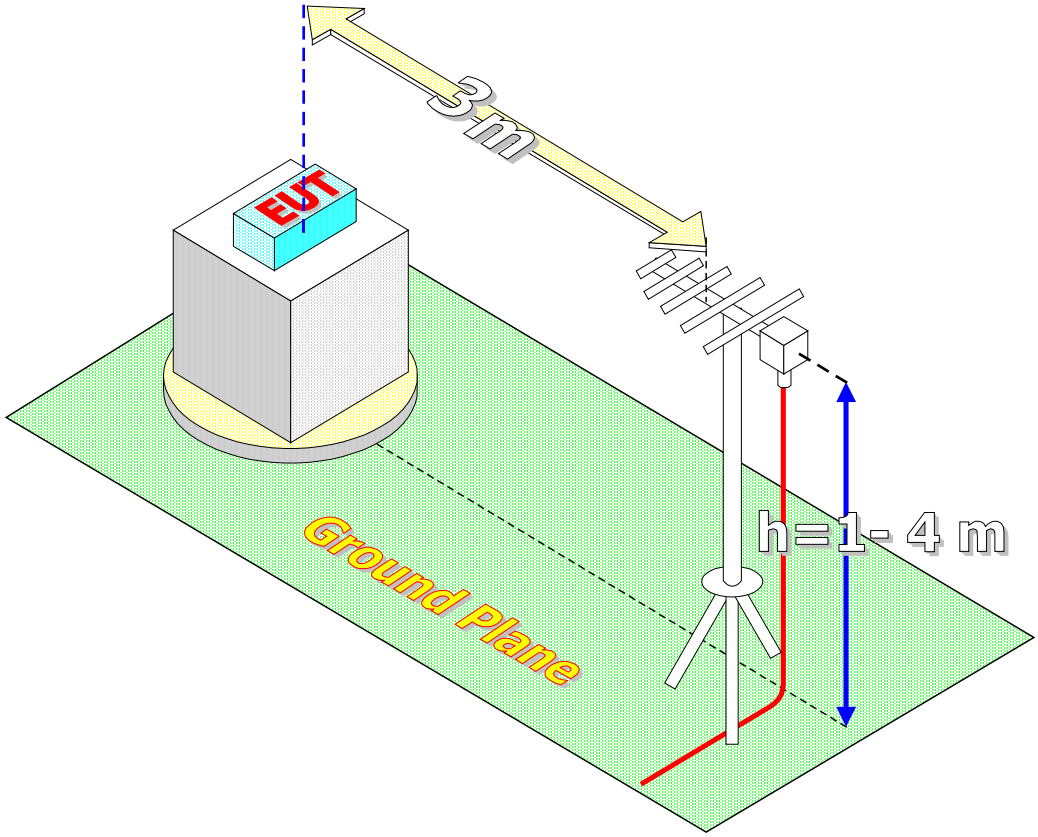


Figure RE-B

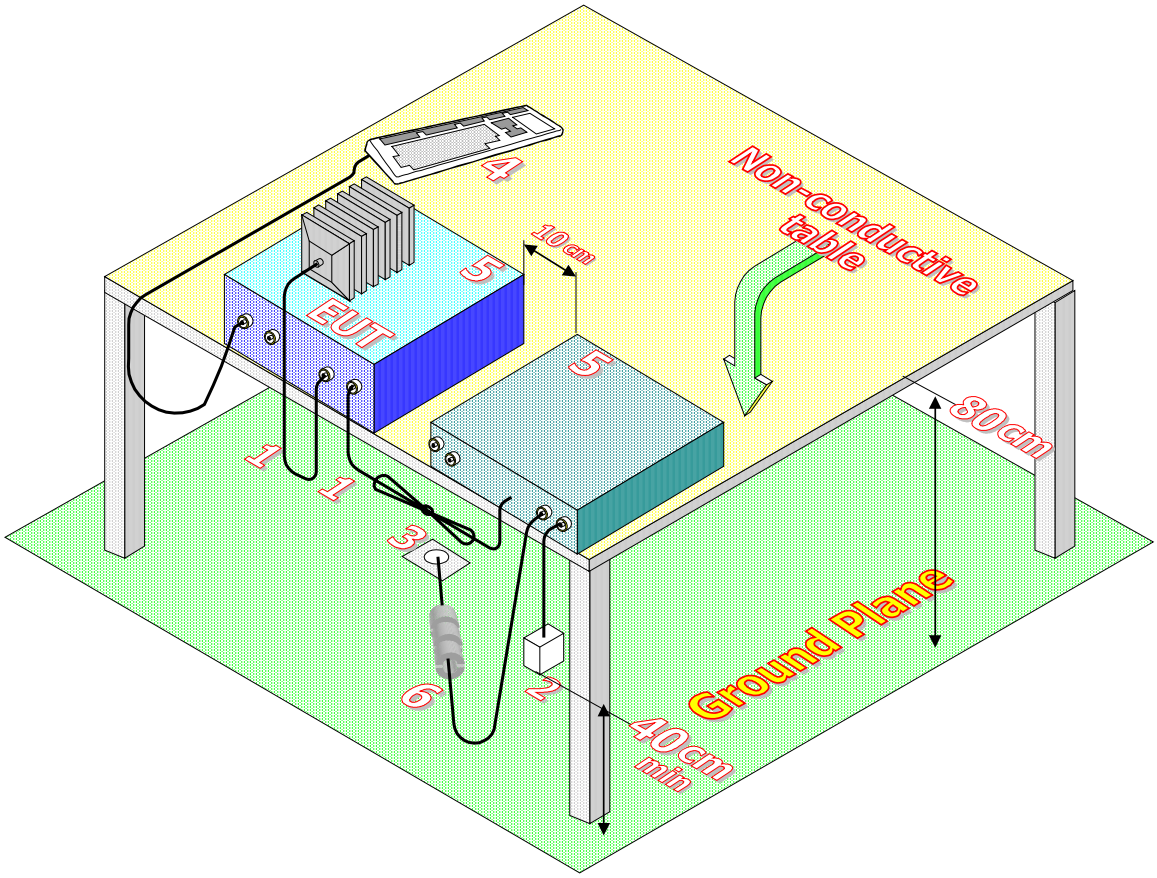


Figure RE-C

1. If cables, which hand closer than 40 cm to the horizontal ground plane cannot be shortened to the appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
2. The end of I/O signal cables, which are not connected to a peripheral, may be terminated, if required to proper operation using correct terminating impedance.

Main junction boxes shall be flush with, and bonded directly to, metal ground plane

4. Cables of hand operated devices such as keyboards, mousses; etc. shall be placed as for normal usage.
5. Peripherals shall be placed at distance 10 cm from each other and from the controller, except for the monitor, which, if for an acceptable installation practice, shall be placed directly on top of the controller.

6 Mains cables, telephone lines or other connections to auxiliary equipment located outside the test area shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turn table. No extension cords shall be used to mains receptacle.

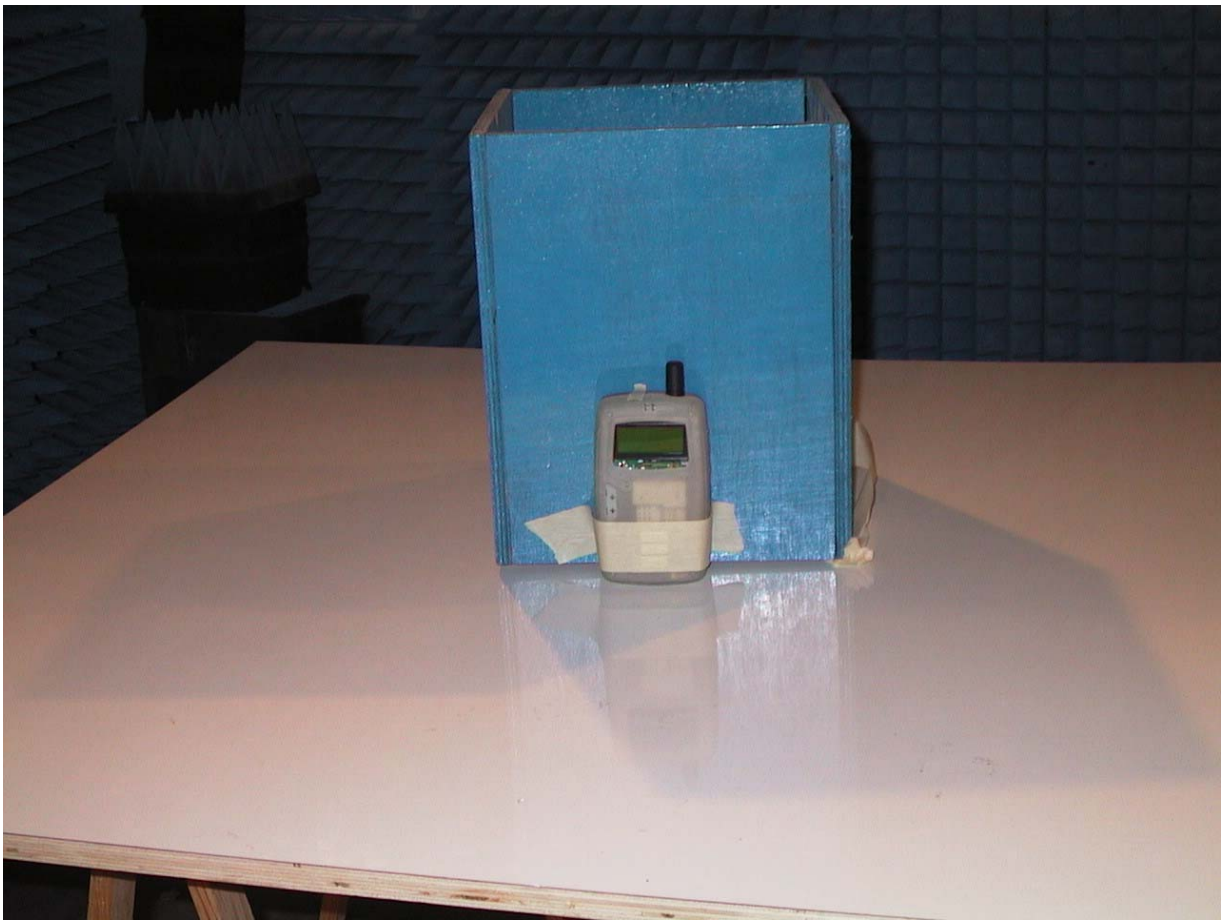
Ferrite clamps or ferrite tubes. No more than one cable per clamp.

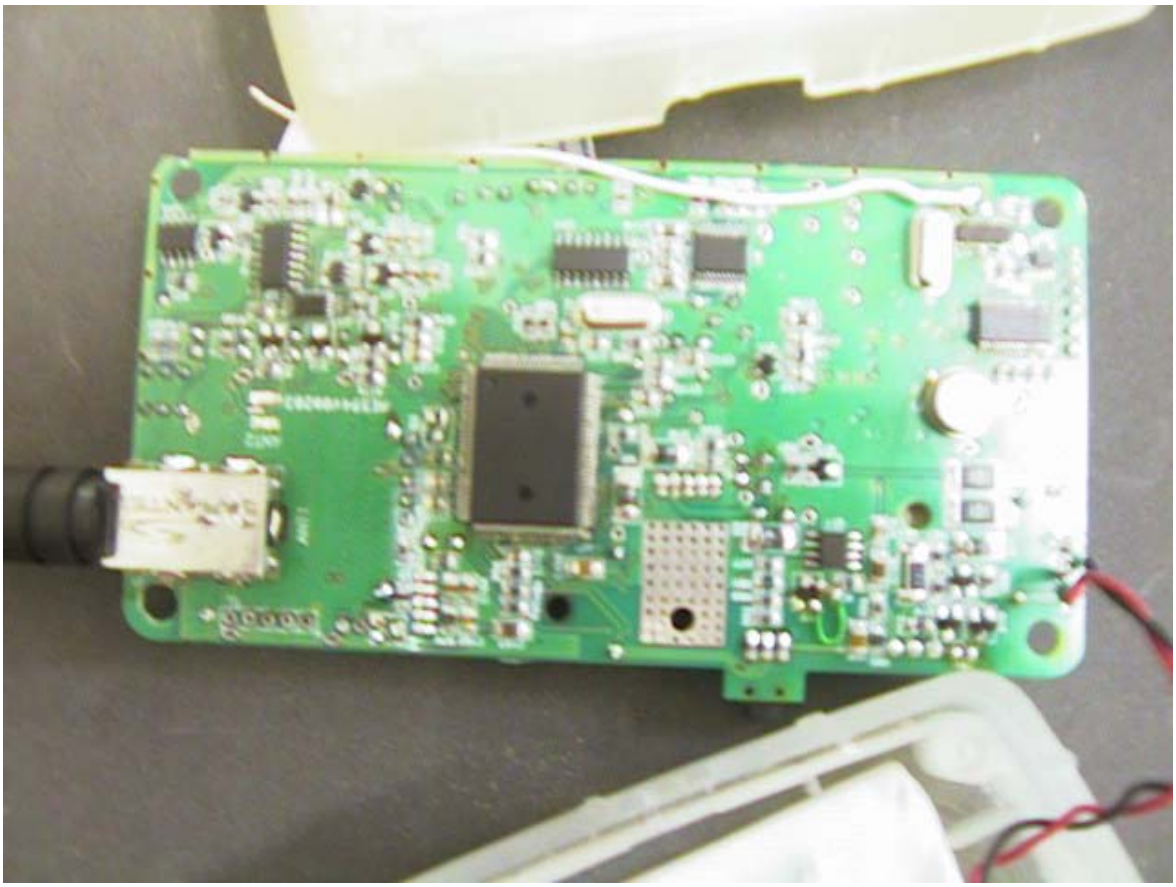
c. Final Test Results

Table RE-B Six Highest Emissions RX Mode 15.109

Mode Of Operation	Freq. (MHz)	Quasi-peak Reading (*) (dBμV/m)	Limit dBμV/m	Margin (dB)	Polarity Ver/Hor	Height (m)
RXMode	30MHz – 5GHz	All Emission Were Found 20db min Blow the Limit				

(*) Resolution B/W = 120 kHz





8 CONDUCTED EMISSIONS, AC POWeR LEADS ACCORDING TO FCC 15.107

Frequency Range: 150 kHz – 30 MHz

Testing Engineer: D.Lanuel Date : 26/05/03

a. Equipment Under Test Description and Operation

LSQ-STAR-800, S/N **0001** manufactured by ELMOTECH LTD.

(1) Modes of Operation

The LSQ-STAR-800 was set to Battery Charge at RX Mode

(2) Operating Voltage 110 V, AC 60Hz

b. Test Results Summary & Conclusions

The LSQ-STAR-800 complies with FCC, Part 15.107 conducted emissions requirement.

c. Limits of Conducted Emission at Mains Terminals

The test unit shall meet the limits of Table CE-1 for FCC Part 15 Para 15.107 equipment.

Table CE-1 Limits for intentional radiator according 15.107

Frequency Range MHz	Quasi-peak Limits dBμV
0.15 – 0.50	66 to 56*
0.50 - 5	56
5 - 30	60

*Decreases with the logarithm of the frequency

d. Test Instrumentation and Equipment

Table CE-2 – Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31/01/04
Signal Generator	2017	Marconi	21/06/03
LISN	FCC-LISN-3B	FISCHER	31/08/04

e. Test Setup

(1) Calibration setup shown in Figure CE-1.
(2) The testing setup shown in Figure CE-2.
(3) configurations for Equipment and cable are shown in Figure CE-3.

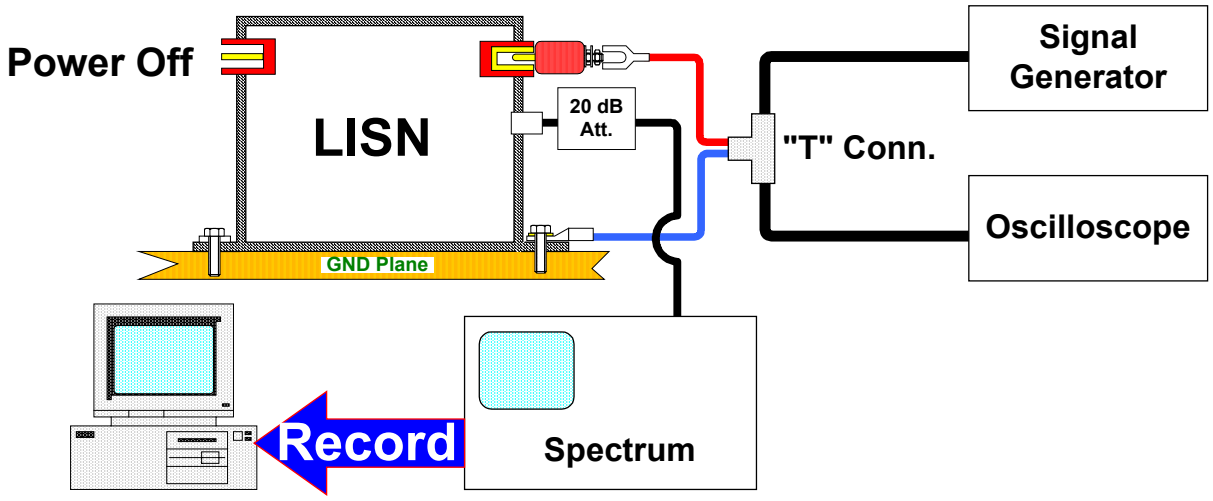


Figure CE-1

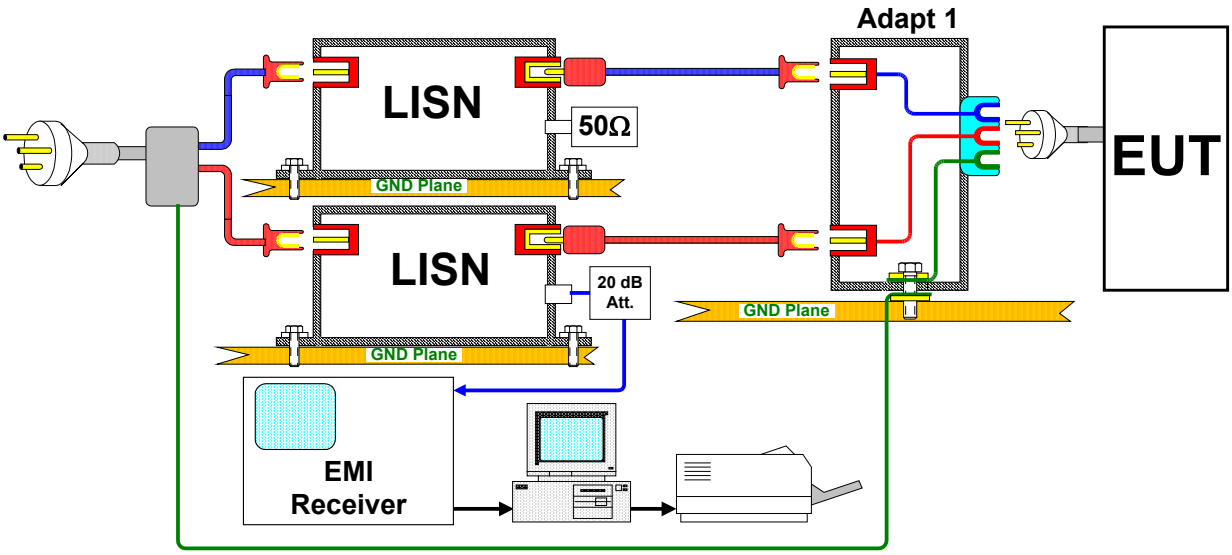


Figure CE-2

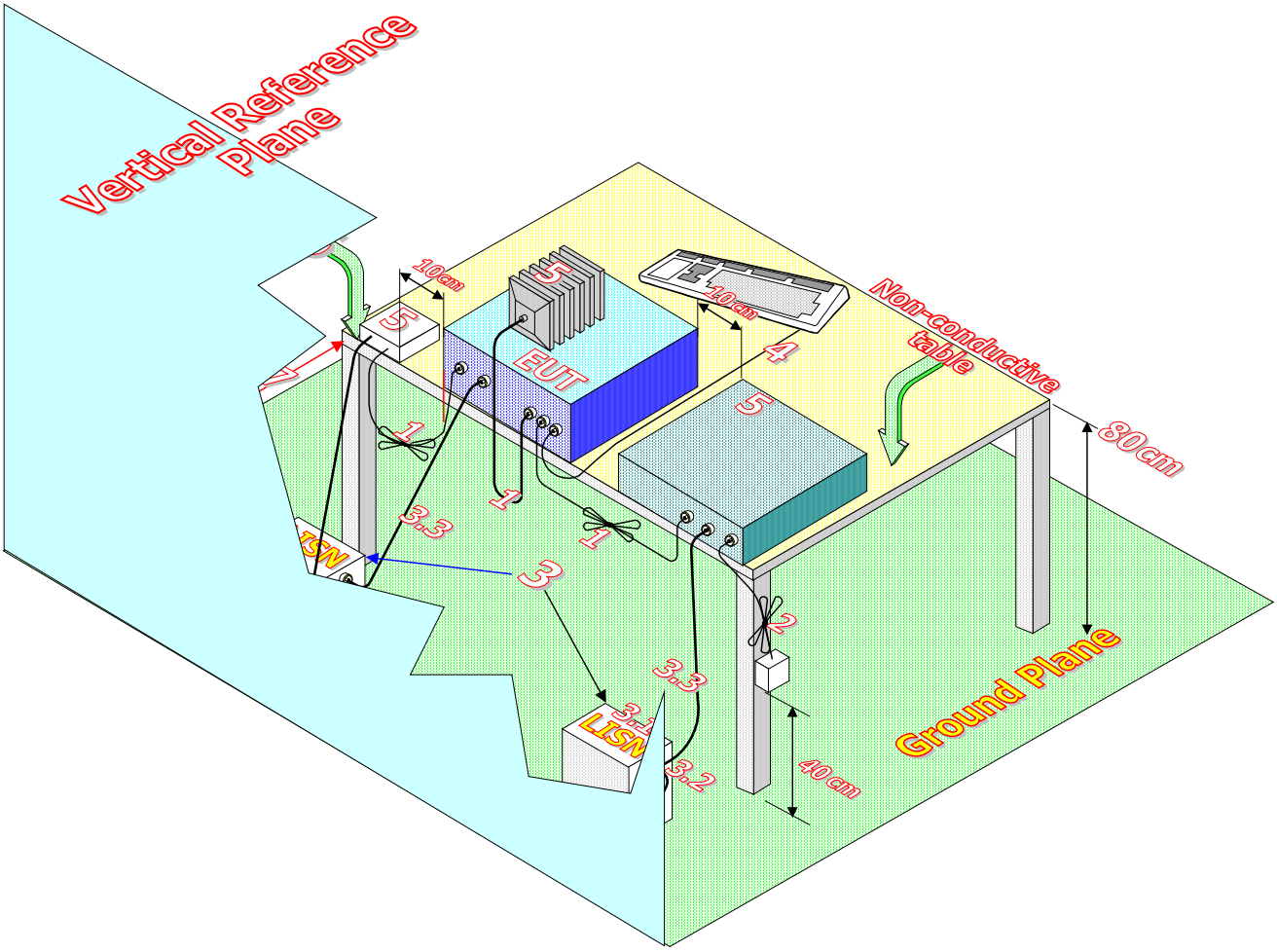


Figure CE-3

1 Interconnecting cables that hand closer than 40 cm to the horizontal ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between ground plane and table.
2 I/O cables are connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using correct terminating impedance.
The total length shall not exceed 1 m.
3 E.U.T is connected to one LISN. Unused LISN connectors shall be terminated in 50 Ω.
4 All other equipment powered from second LISN
5 A multiple outer strip can be used for multiple power cords of non-E.U.T equipment.
6 LISN at least 80 cm from nearest part of E.U.T chassis.
7 Cables of hand operated devices such as keyboards, mousses; etc. have to be placed as close as possible to the host Non-E.U.T components being tested.
8 Rear of E.U.T, including peripherals shall be all aligned and flush with the rear tabletop.
9 Rear tabletop shall be 40 cm removed from a vertical conducting plane that bonded to the floor ground plane.

f. Test Procedure

The test procedure shall be as follows:

(1) Calibration.

Perform the measured system check using the calibration setup shown in Figure CE-1.

(2) Turn on the measurement equipment and allow sufficient time for stabilization.

(3) Apply the calibrated signal level, which is 6 dB below the limit given in Table 1 at 500kHz and 29 MHz to the power output terminal of LISN.

(4) Scan the spectrum analyzer for each frequency in the same manner as a normal data scan. Verify that the spectrum analyzer indicates a level within ± 3 dB of injected level. Correction factor shall be applied for LISN and 20 dB for attenuator.

(5) E.U.T Testing. Perform emission data scan using the measurement setup shown in Figures CE-2 and CE-3.

(6) Turn on the E.U.T to operational mode and allow sufficient time for stabilization.

(7) Select (Phase) lead for testing.

(8) Scan the spectrum analyzer over the applicable frequency range

(9) Repeat (2) and (3) for (Neutral) lead.

(10) Choose six highest emissions relative to limit and feel Table CE-3.

(11) Perform measurements for selected frequencies using quasi-peak detector.

Table CE-4 Test Results 15.107

Lead P/N	Mode of Operation	Frequency Range (MHz)	Resolution BW (kHz)	Plot No.	Comply. Y/N
	Calibration	0.5	0.2		OK
		1	120		OK
		30	120		OK
Phase	RX	0.15 – 0.5	9	CE/ 1	Y
		0.5 - 1		CE/ 2	Y
		1 - 30		CE/ 3	Y
Neutral	RX	0.15 – 0.5	9	CE/ 4	Y
		0.5 - 1		CE/ 5	Y
		1 - 30		CE/ 6	Y

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

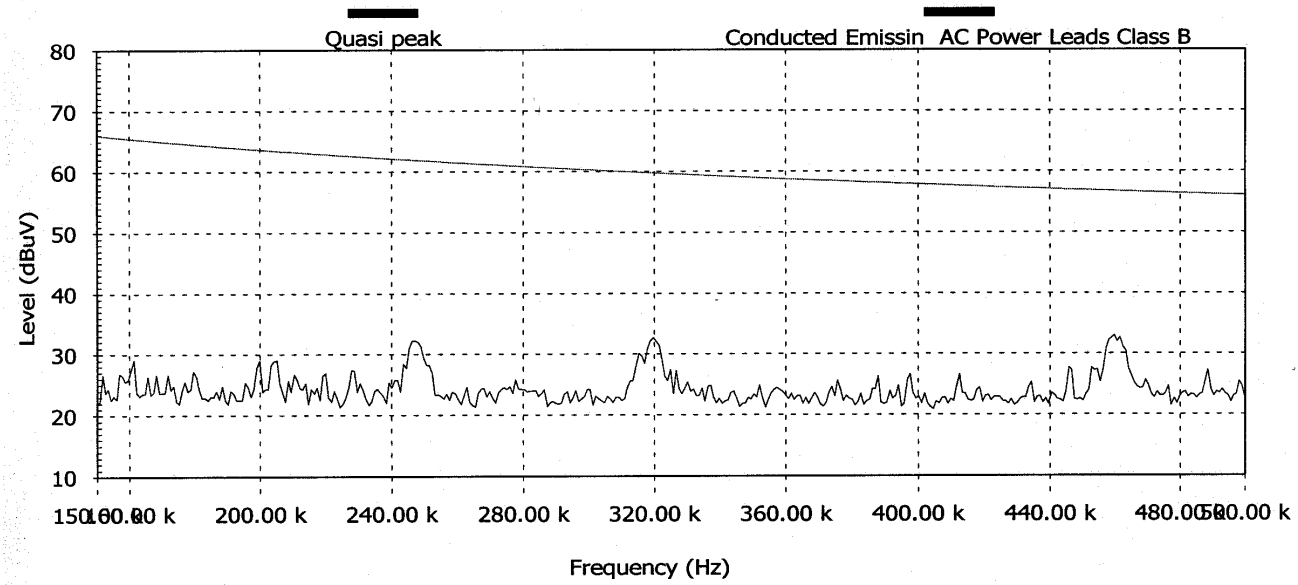
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 24) CE FCC CLASS B
From 150 kHz to 500 kHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 24) CE FCC CLASS B
From 150 kHz to 500 kHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 33.3330001831055 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 1

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

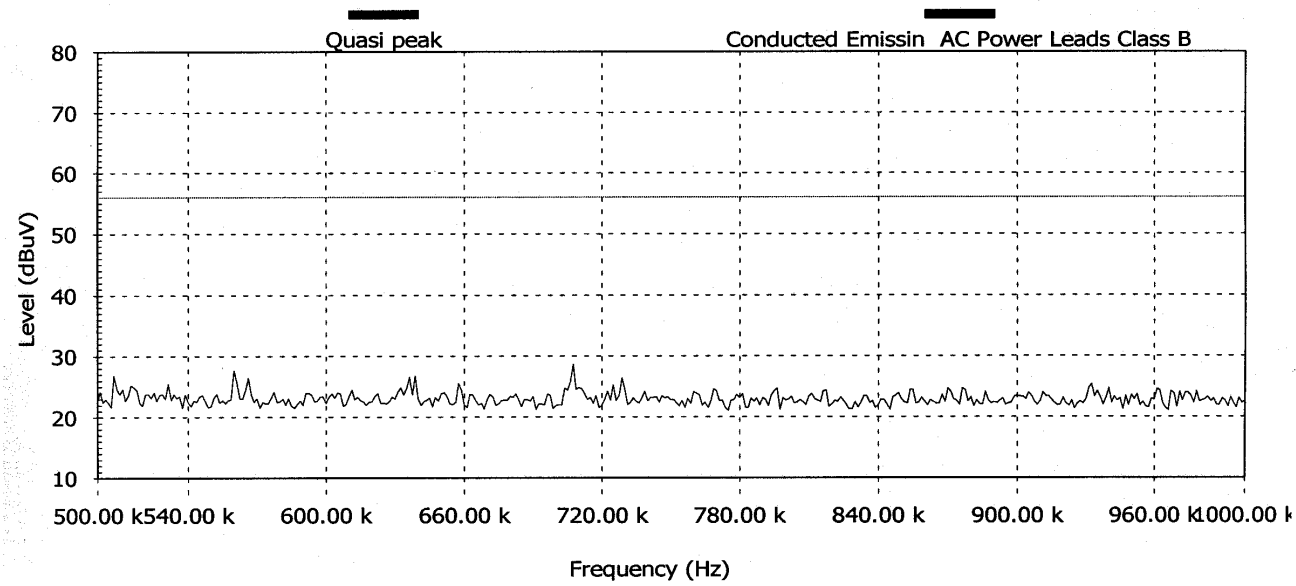
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 25) CE FCC CLASS B
From 500 kHz to 1000 kHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 25) CE FCC CLASS B
From 500 kHz to 1000 kHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 33.3330001831055 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 2

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

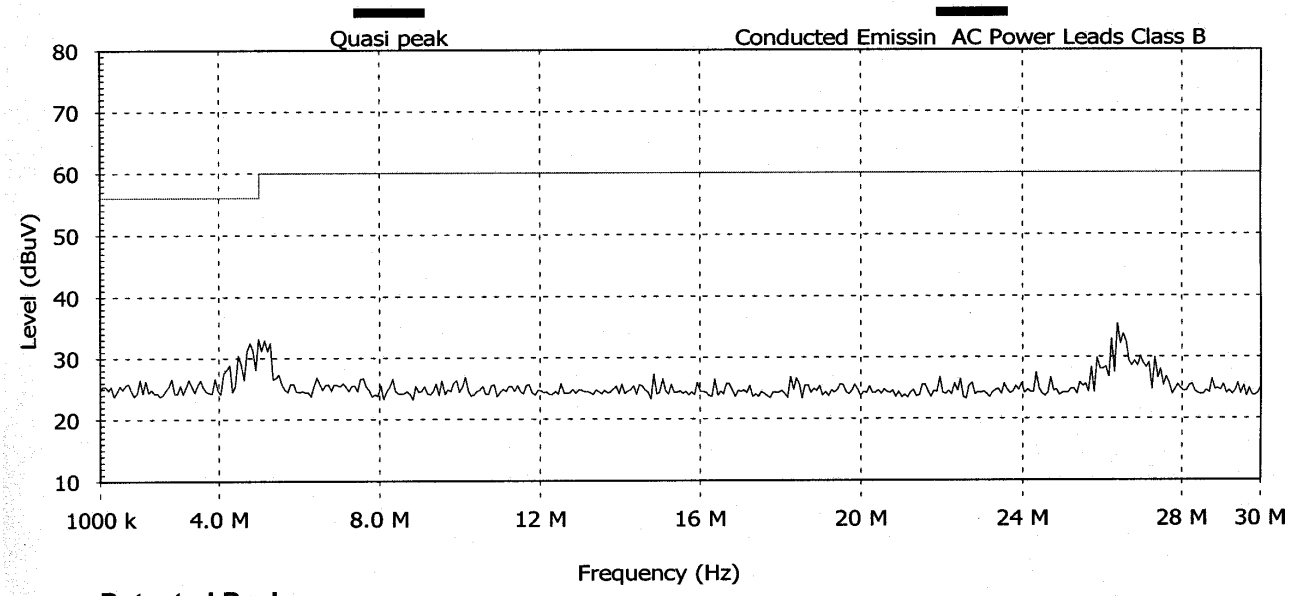
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 26) CE FCC CLASS B
From 1000 kHz to 30 MHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 26) CE FCC CLASS B
From 1000 kHz to 30 MHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 1074.07397460938 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 3

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

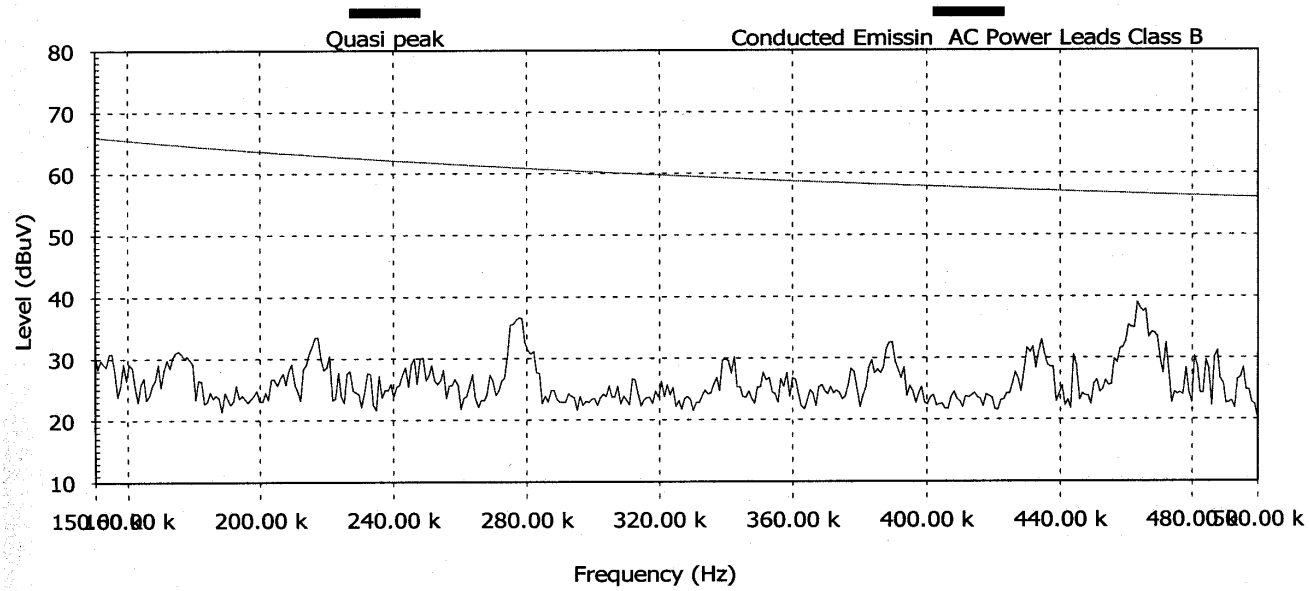
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 27) CE FCC CLASS B
From 150 kHz to 500 kHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 27) CE FCC CLASS B
From 150 kHz to 500 kHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 33.3330001831055 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 4

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

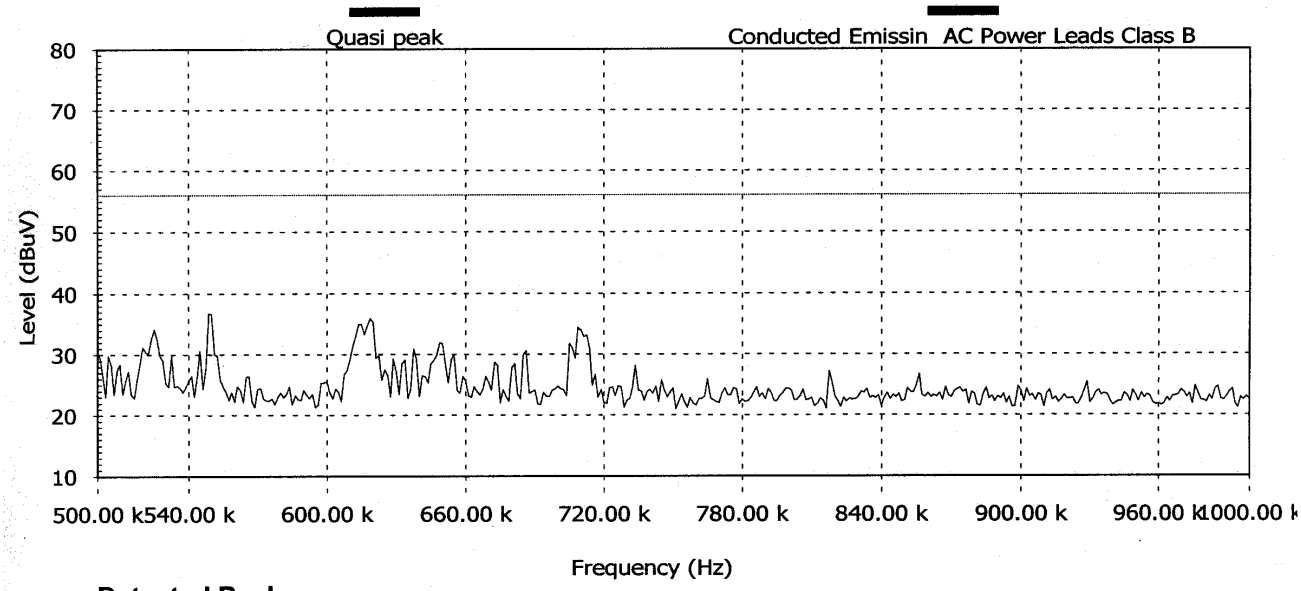
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 28) CE FCC CLASS B
From 500 kHz to 1000 kHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 28) CE FCC CLASS B
From 500 kHz to 1000 kHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 33.3330001831055 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 5

EUT File:
S:\EMC_LAB\common\Dmatek\STaR_Mobile\Data\Mobile.EUT
Order Number:

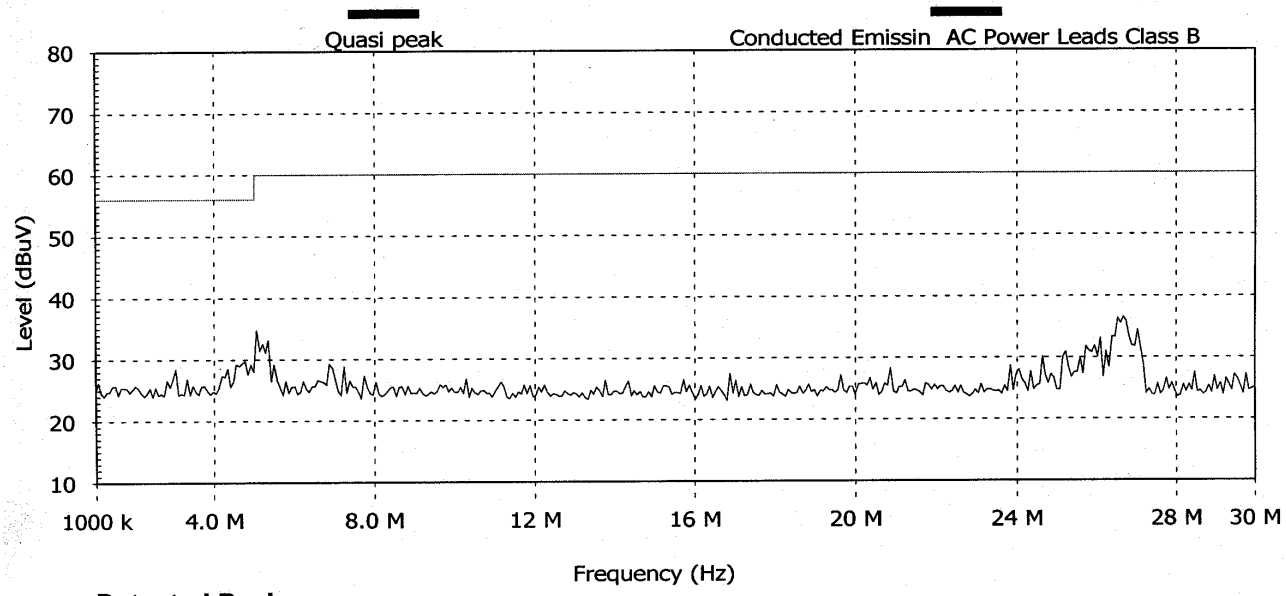
EUT
Name: StAR_ Mobile
Serial Number:

Client
Name: Elmotech
Contact Person:

Conducted Emission LISN

Description: 29) CE FCC CLASS B
From 1000 kHz to 30 MHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	PK (dBuV)	AVG (dBuV)	QP (dBuV)	RMS (dBuV)	PK Limit (dBuV)	PK Diff (dBuV)	AVG Limit (dBuV)	AVG Diff (dBuV)	QP Limit (dBuV)	QP Diff (dBuV)	RMS Limit (dBuV)	RMS Diff (dBuV)	PK Pass	AVG Pass	QP Pass	RMS Pass	Pass	Line

Settings:
Description: 29) CE FCC CLASS B
From 1000 kHz to 30 MHz
Ref. Level: 80.0 dBuV Att: 0 dB. RBW: 9 kHz. VBW: 1000 kHz. Sweep time: 1074.07397460938 r
Detect all peaks above 10 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

Plot CE/ 6