



Bluetooth Test Report

4_Plext_0102_BTT_RFa

for

Clarion Bluetooth Car Kit CM HS1

Headset

Product category: Mobile Phone Accessory

7 layers AG

Borsigstrasse 11
D-40880 Ratingen
Germany

Phone: +49 (0) 2102 749-0

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Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the testing laboratory.

Registergericht - Registered in:
Ratingen, HRB 3264
Aufsichtsratsvorsitzende -
Chairman of the Supervisory Board:
Dr. Sabine Grobecker

Vorstand - Board of Directors:
Dr. Wolfgang Dahm
Dr. Hans-Jürgen Meckelburg

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1. Administrative Data

1.1 Testing Laboratory

Company name: 7 layers AG

Address: Borsigstrasse 11
D-40880 Ratingen
Germany

Laboratory accreditation info: TTI-P-G 178/99
96716

Responsible for accreditation scope: Dipl. - Ing. Frank Spiller
Dipl. - Ing. Marco Kullik

Version of test report: 1.0

1.2 Project Data

Project leader: Dipl.-Ing. Andreas Petz

Date of test report: 2002-09-04

Date of first test: 2002-08-12

Date of last test: 2002-08-18

1.3 Applicant Data

Company name: Clarion

Address: Phase 3, Free Industrial Zone
11900 Bayan Lepas
Penang
Malaysia

Contact person: Mr. Pang Tong Khim

1.4 Manufacturer Data

Company name: see Applicant

Address:

Contact person:

2. Testobject Data

2.1 General EUT Description

Product Category:	Mobile Phone Accessory
Equipment under test:	Clarion Bluetooth Car Kit CM HS1
Nominal voltage:	5.5 V
Low voltage:	5.5 V
High voltage:	5.5 V
Power class:	2
Longest supp. packet:	DH1
Max. antenna gain:	00,0 dBi
Nominal temperature:	23°C
Low temperature:	-20°C
High temperature:	+80°C



2.2 Supported Profiles

- ☐ Profile K1:GAP Conformance
- ☐ Profile K2:SDAP Interoperability
- ☐ Profile K3:Cordless Interoperability
- ☐ Profile K4:Intercom Interoperability
- ☐ Profile K5:Serial Port Profile Conformance
- ☐ Profile K6:Headset Interoperability
- ☐ Profile K7:DUN Interoperability
- ☐ Profile K8:FAX Interoperability
- ☐ Profile K9:LAN Access Interoperability
- ☐ Profile K11:Object Push Profile Interoperability
- ☐ Profile K12:File Transfer Profile Interoperability
- ☐ Profile K13:Synchronization Profile Interoperability
- ☐ Extended Service Discovery Profile
- ☐ Personal Area Network Interoperability Profile
- ☐ Basic Printing Interoperability Profile
- ☐ Hardcopy Cable Replacement
- ☐ Hands-Free Interoperability Profile
- ☐ Basic Imaging Interoperability Profile
- ☐ Audio/Video Distribution Transport Protocol Conformance
- ☐ Audio/Video Control Transport Protocol Conformance
- ☐ Generic Audio/Video Distribution Profile Conformance
- ☐ Advanced Audio Distribution Profile Interoperability
- ☐ Audio/Video Remote Control Profile Interoperability
- ☐ Human Device Interface
- ☐ Common ISDN Access Profile
- ☐ SIM Access Profile



2.3 EUT: List of Devices and Configurations

BD Address	Configura- tion	HW status	SW status	Serial Number	Date of receipt	Date of return
0050c215a02f	a01	FIPICD 03	272 BC02x_hci_lvi_lk. 3_56	F1031	2002-08-12	
0050c215a031	b01	FIPICD 03	272 BC02x_hci_lvi_lk. 3_56	F1033	2002-08-12	

2.4 EUT: Equipment for Profile Interoperability Testing

Short Description	Interoperability Device	Type Designation	Manufac turer	HW Status	SW Status	Serial No.
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2.5 (Interoperability) Test Setups

Setup No.	Combination of EUT and Interoperability	Remarks
setup01	EUT + Interface Box + TS8960	set-up for conducted tests
setup02	EUT + Interface Box + Anechoic Chamber	set-up for radiated tests



3. Test Results

3.1 General

Documentation of tested devices and results:

Available at the 7 layers AG Test Laboratory.

The complete set of measurement results is stored in printed form at the 7 layers AG Test laboratory and is available on demand.

The reference to the test system print outs is shown by the unique combination of the Test Case Identifier (TCID), EUT, Test conditions (temp., voltage, packet type) and Date of Test.

Interpretation of test results:

The results of the inspection are described on the following page(s). "Passed" in the summary list in chapter 3.2 of this test report means:

1) The performed tests were verified according to:

Test Case Reference List **2002-07-22**

Test Case Reference Addendum **-**

Core Specification Ver. **1.1**

and were verified according to the following Test Specifications and ICS/IXIT documents:

Test Spec Name	Test Spec Ver.	ICS/IXIT Ver.
Part A	A: 0.91	0.91

including the following erratas:

Test case	Test Spec. ver.	Errata
TRC/CA/01/C	A: 0.91	err 189
TRC/CA/01/C	A: 0.91	err 259
TRC/CA/01/C	A: 0.91	err 262
TRC/CA/01/C	A: 0.91	err 299 ur
TRM/CA/01/C	A: 0.91	err 189
TRM/CA/02/C	A: 0.91	err 189
TRM/CA/04/C	A: 0.91	err 189
TRM/CA/05/C	A: 0.91	err 189
TRM/CA/06/C	A: 0.91	err 189

2) The tested device is conformant to the Bluetooth specifications.

The detailed results of all performed tests are available within the internal documentation of the test laboratory.

In cases where "declaration" is stated in the summary list, the corresponding documents are available within the clients documentation.

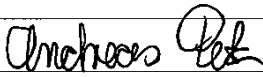
In cases where "not applicable" is stated in the summary list, the test case requirements are not relevant to the specific test equipment implementation.



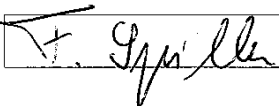
General Comment(s):

According to the Delta Test Concept for a BC2 chip used in this device which is agreed with BQB Mr. Andreas Gruenwaldt only the following tests are performed at normal test conditions (besides TRM/CA/01/C and RCV/CA/01/C also at extreme test conditions).

Project leader:

Responsible for accreditation scope:

 7 layers AG, Borsigstr. 11
40880 Ratingen, Germany
Phone +49 (0)2102 749 0



3.2 Summary List

Part A (RF Test Results)

TC Identifier		Test Spec.								
Description										
Test Conditions	EUT Power	Test Voltage	Test Temp.	Packet Type	TX/RX Freq.	Configuration	Setup	Date	Result	Footnote

TRM/CA/01/C A: 0.91

Output Power

Max	Normal	Normal	DH1	hopping sequence	a01	setup01	2002-08-17	passed
Max	Low	Low	DH1	hopping sequence	a01	setup01	2002-08-17	passed
Max	High	High	DH1	hopping sequence	a01	setup01	2002-08-17	passed

TRM/CA/02/C A: 0.91

Power Density

Max	Normal	Normal	DH1	hopping sequence EU	a01	setup01	2002-08-17	passed
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TRM/CA/04/C A: 0.91

TX Output Spectrum – Frequency range

Max	Normal	Normal	DH1	High / Low Europe	a01	setup01	2002-08-17	passed
Max	Normal	Normal	DH1	Low / High Europe	a01	setup01	2002-08-17	passed

TRM/CA/05/C A: 0.91

TX Output Spectrum – 20 dB Bandwidth

Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed
Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed
Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-17	passed

TRM/CA/06/C A: 0.91

TX Output Spectrum – Adjacent channel power

Max	Normal	Normal	DH1	High-3 / Low	a01	setup01	2002-08-17	passed
Max	Normal	Normal	DH1	Low+3 / High	a01	setup01	2002-08-17	passed
Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-17	passed



Part A (RF Test Results)

TC Identifier		Test Spec.								
Description										
Test Conditions	EUT Power	Test Voltage	Test Temp.	Packet Type	TX/RX Freq.	Configuration	Setup	Date	Result	Footnote

TRC/CA/01/C

A: 0.91

Out-of-Band Spurious Emissions

ETS conducted.	Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed	
ETS conducted.	Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed	
ETS conducted.	-	Normal	Normal	-	Standby	a01	setup01	2002-08-17	passed	
ETS radiated	Max	Normal	Normal	DH1	High / Low	b01	setup02	2002-08-12	passed	002
ETS radiated	Max	Normal	Normal	DH1	Low / High	b01	setup02	2002-08-12	passed	002
ETS radiated	-	Normal	Normal	-	Standby	b01	setup02	2002-08-12	passed	003
FCC conducted.	Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-12	passed	
FCC conducted.	Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-12	passed	
FCC conducted.	Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-12	passed	
FCC radiated	Max	Normal	Normal	DH1	High / Low	b01	setup02	2002-08-12	passed	001
FCC radiated	Max	Normal	Normal	DH1	Low / High	b01	setup02	2002-08-12	passed	001
FCC radiated	Max	Normal	Normal	DH1	Mid / Low	b01	setup02	2002-08-12	passed	001

RCV/CA/01/C

A: 0.91

Sensitivity – single slot packets

Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / Mid	a01	setup01	2002-08-17	passed	
Max	Low	Low	DH1	High / Low	a01	setup01	2002-08-18	passed	
Max	Low	Low	DH1	Low / High	a01	setup01	2002-08-18	passed	
Max	Low	Low	DH1	Low / Mid	a01	setup01	2002-08-18	passed	
Max	High	High	DH1	High / Low	a01	setup01	2002-08-17	passed	
Max	High	High	DH1	Low / High	a01	setup01	2002-08-17	passed	
Max	High	High	DH1	Low / Mid	a01	setup01	2002-08-17	passed	



3.3 Footnotes and Testsystem Environmental Conditions

Footnotes:

- 001 Tested in "local TX mode". The tests have been continued on 2002-08-13 (18.0 - 25.0 GHz) and completed on 2002-08-14 (30.0 MHz - 1.0 GHz).
- 002 Tested in "local TX mode".
- 003 Tested in continuous scan repetition mode "SR0".



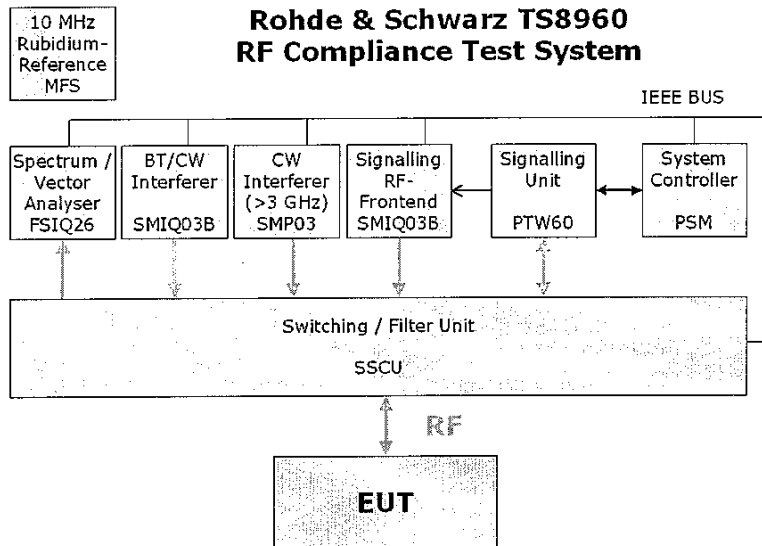
Test System Environmental Conditions:

Test System TS8960R

	Date	Temperature	Humidity	AirPressure
	12.08.02	25 °C	48 %rel	1008 hPa
	17.08.02	27 °C	26 %rel	1012 hPa
	18.08.02	28 °C	27 %rel	1013 hPa

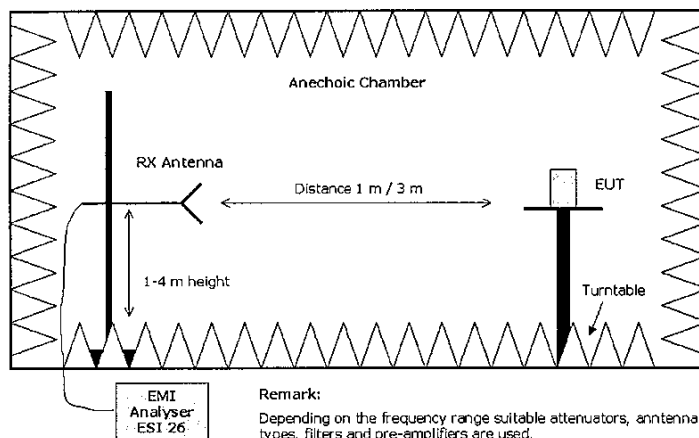
4. Description of Test Systems

System 1 - Conducted tests with TS 8960



Test system 1 was checked by internal verification procedure of 7 layers according to the principles of our Management System, approved by DAR.

System 2 - Radiated tests in the anechoic chamber



Remark:
Depending on the frequency range suitable attenuators, antenna types, filters and pre-amplifiers are used.
The measurement distance is adjusted accordingly, also antenna height.
The chamber can be configured as semi- or fully-anechoic chamber.

This test system is under permanent surveillance of DAR and FCC.

Test system 2 (anechoic chamber) is under permanent surveillance of DAR and FCC

5. List of used Equipment



EMI Test System

Testlab Ratingen, control area

Manufacturer Rohde&Schwarz		Hardware version(s)	
Serial no.		Software version(s) for EN 55022: ES-K1 Ver. 1.60	
Equipment	Type	Serial no.	Manufacturer
Comparison Noise Emitter	CNE III	99/016	York
EMI Analyzer	ESI 26	830482/004	Rohde & Schwarz
Signal Generator	SMR 20	846834/008	Rohde & Schwarz

EUT Digital Signalling System

Testlab Ratingen, control area

Manufacturer		Hardware version(s)	
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Digital Radio Communication Tester	CMD 55	831050/020	Rohde & Schwarz
Signalling Unit for Bluetooth Spurious Emissions	PTW60	100004	Rohde & Schwarz

Auxiliary Test Equipment

Testlab Ratingen

Manufacturer various		Hardware version(s)	
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Broadband Resist. Power Divider N	1506A / 93459	LM390	Weinschel
Broadband Resist. Power Divider SMA	1515 / 93459	LN673	Weinschel
Digital Multimeter 01	Voltcraft M-3860M	IJ096055	Conrad
Digital Multimeter 02	Voltcraft M-3860M	IJ095955	Conrad
Digital Oscilloscope	TDS 784C	B021311	Tektronix
Fibre optic link Satellite	FO RS232 Link	181-018	Pontis
Fibre optic link Transceiver	FO RS232 Link	182-018	Pontis
I/Q Modulation Generator	AMIQ-B1	832085/018	Rohde & Schwarz
Notch Filter ultra stable	WRCA800/960-6EEK	24	Wainwright
Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz
Temperature Chamber	KWP 120/70	59226012190010	Weiss
	VT 4002	58566002150010	Vötsch
ThermoHygro_01	430202		Fischer

Rohde & Schwarz TS8960

Testlab Ratingen, BT Lab

Bluetooth RF Conformance Test System

Manufacturer	Rohde & Schwarz	Hardware version(s)	Ident-No.: 1133.1810.02
Serial no.	338864	Software version(s)	Operation System: SuSE Linux 6.0, Kernel 2.0.36 Test System Software: (1.12) (1.14) (1.17) (1.18) (1.19) (1.22) (1.23) (1.24pre) (1.24) 1.24 + Patch + 2.0
Equipment	Type	Serial no.	Manufacturer
Laserprinter	Laserjet 2100	FRFJ023447	HP
Monitor 19"	Flexscan T68	50565029 -ED	EIZO
Power Meter	NRVD	832025/059	Rohde & Schwarz
Power Sensor	NRV-Z1	832279/013	Rohde & Schwarz
	NRV-Z1	832279/015	Rohde & Schwarz
Power Supply	PS-2403D	-	Conrad
	E3632A	MY40003776	Agilent
RF Step Attenuator	RSP	833695/001	Rohde & Schwarz
Rubidium Frequency Normal	MFS	002	Efratom
Signal Analyser	FSIQ26	832695/007	Rohde & Schwarz
Signal Generator	SMIQ03B	101175	Rohde & Schwarz
	SMIQ03B	832870/017	Rohde & Schwarz
	SMP 03	833680/003	Rohde & Schwarz
Signal Switching and Conditioning Unit	SSCU	338826/005	Rohde & Schwarz
Signalling Unit	PTW60 for TS8960	838312/014	Rohde & Schwarz
System Controller	PSM12	829323/008	Rohde & Schwarz

6. Photo Report

Anechoic Chamber

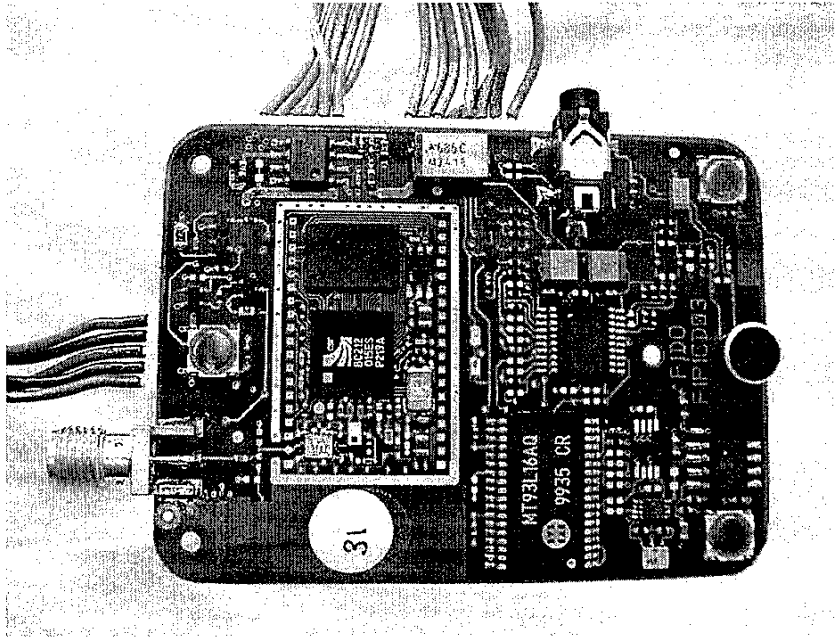
Testlab Ratingen

Manufacturer		Hardware version(s)	
various			
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Air Compressor (pneumatic)			Atlas Copco
Controller	HD 100	100/603	HD GmbH H. Deisel
EMC Camera	CE-CAM/1		CE-SYS
EMC Camera for observation of EUT	CCD-400E	0005033	Mitsubishi
Filter ISDN	B84312-C110-E1		Siemens&Matsushita
Filter telephone systems / modem	B84312-C40-B1		Siemens&Matsushita
Filter Universal 1A	B84312-C30-H3		Siemens&Matsushita
Fully/Semi AE Chamber	10.58x6.38x6		Frankonia
Turntable	DS 420S	420/573/99	HD GmbH, H. Deisel
Valve Control Unit (pneum.)	VE 615P	615/348/99	HD GmbH, H. Deisel

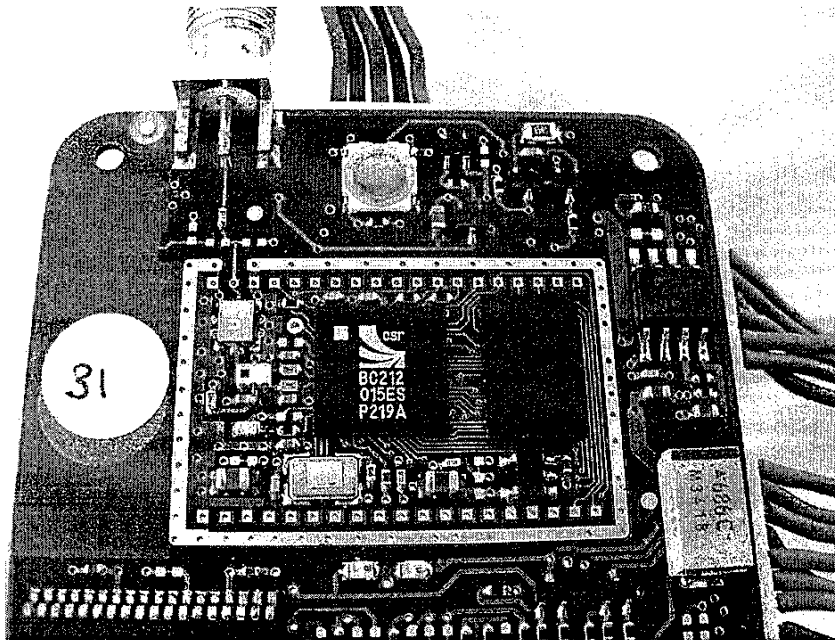
EMI Radiated Auxiliary Equipment

Testlab Ratingen, control area

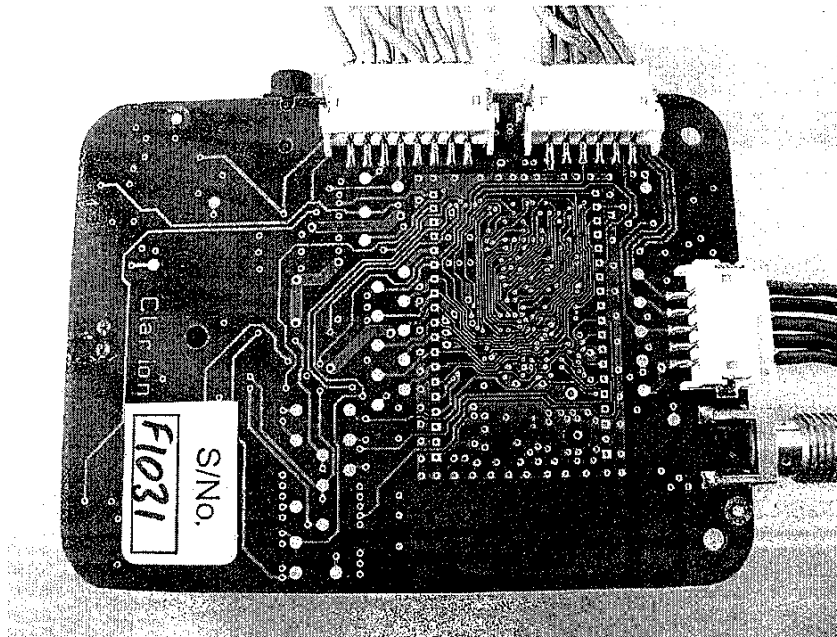
Manufacturer		Hardware version(s)	
various			
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Antenna mast 4m	MA 240	240/492	HD GmbH H. Deisel
Biconical dipole	VUBA 9117	9117108	Schwarzbeck
Broadband Amplifier 45MHz-27GHz	JS4-00102600-42-5A	619368	Miteq
Cable "ESI to EMI Antenna"	RTK081+Aircell7	W18.01+W38.01a	Huber+Suhner
Cable "ESI to Horn Antenna"	RTK 081	W18.04+3599/001	Rosenberger
Double-ridged horn	HF 906	357357/001	Rohde & Schwarz
	HF 906	357357/002	Rohde & Schwarz
High Pass Filter	5HC3500/12750-1.2-KK	200035008	Trilithic
	4HC1600/12750-1.5-KK	9942011	Trilithic
	5HC2700/12750-1.5-KK	9942012	Trilithic
KUEP pre amplifier	Kuep 00304000	001	7layers
Log.-per. Antenna	HL 562 Ultralog	830547/003	Rohde & Schwarz
Loop Antenna	HFH2-Z2	829324/006	Rohde & Schwarz
Pyramidal Horn Antenna 26,5 GHz	Model 3160-09	9910-1184	EMCO



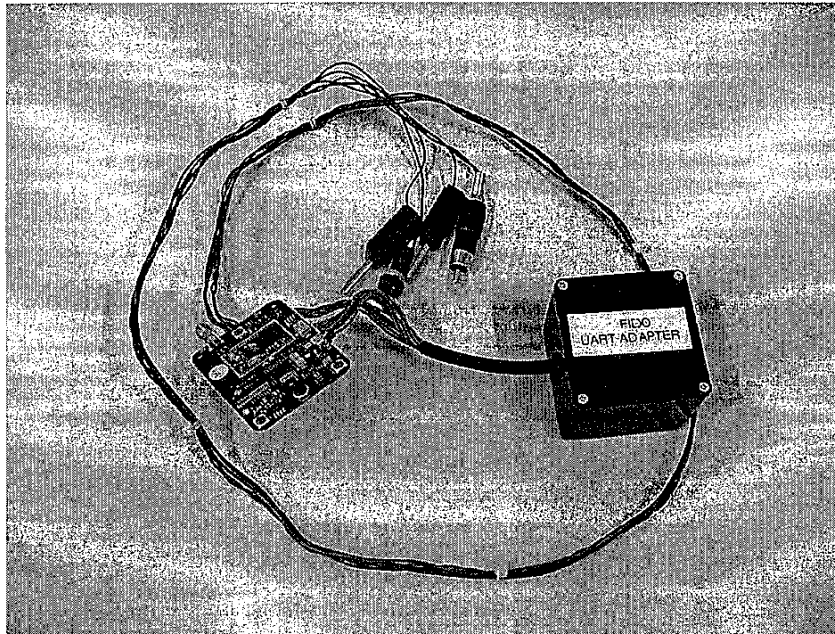
Picture 01 : F1031 PCB top view



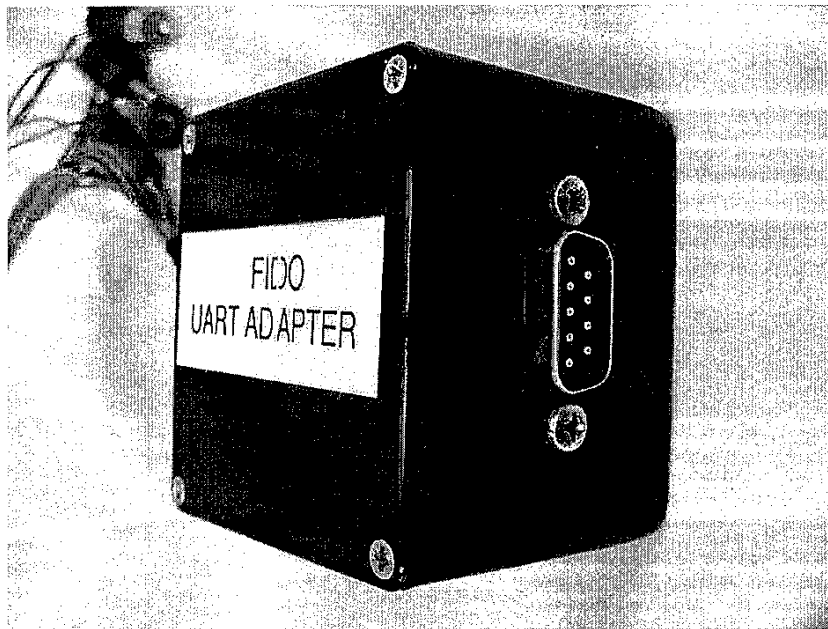
Picture 02 : F1031 top view - BT part detail



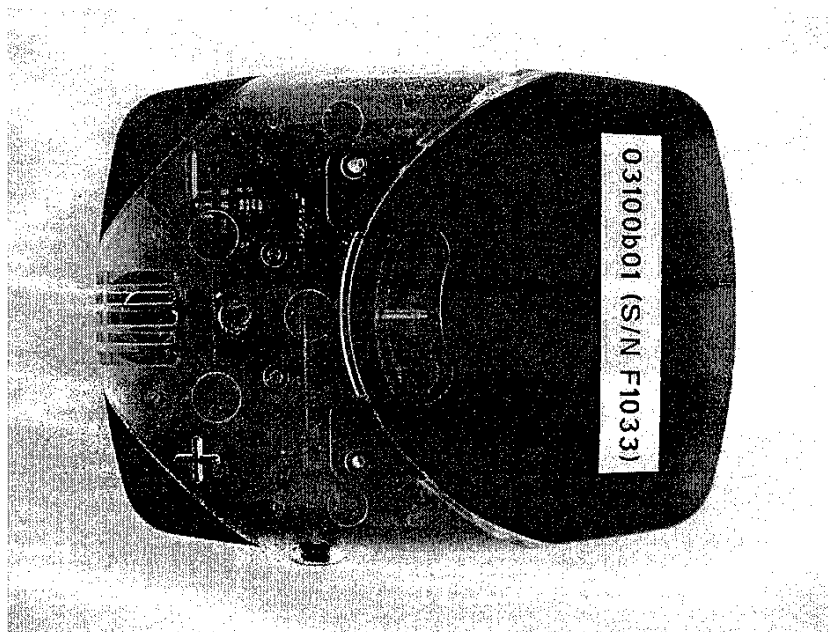
Picture 03 : F1031 PCB bottom view



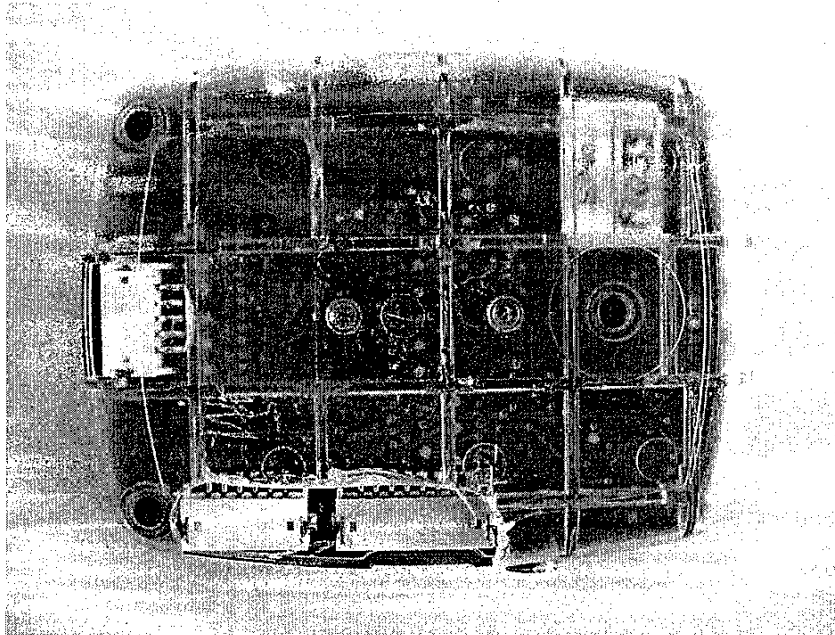
Picture 04 : EUT and interfaces used for testing



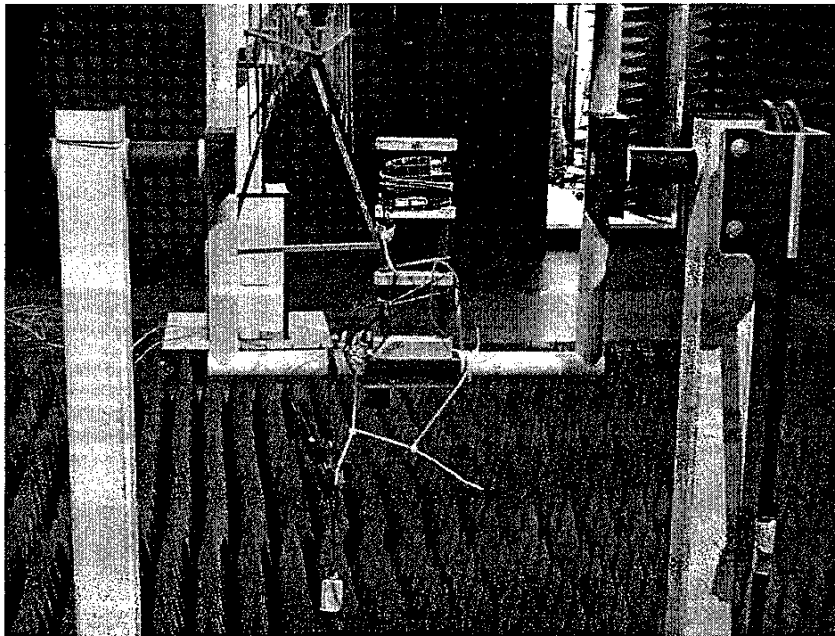
Picture 05 : UART adapter for EUT



Picture 06 : F1033 in housing, top view



Picture 07 : F1033 in housing, bottom view



Picture 08 : F1033, set-up for radiated measurements



Bluetooth Test Report

4_Plext_0102_BTT_HSa

for

Clarion Bluetooth Car Kit CM HS1

Headset

Product category: Mobile Phone Accessory

7 layers AG

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D-40880 Ratingen
Germany

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Note:

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Dr. Wolfgang Dahm
Dr. Hans-Jürgen Meckelburg

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40880 Ratingen, Germany
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1. Administrative Data

1.1 Testing Laboratory

Company name: 7 layers AG

Address: Borsigstrasse 11
D-40880 Ratingen
Germany

Laboratory accreditation info: TTI-P-G 178/99
96716

Responsible for accreditation scope: Dipl. - Ing. Frank Spiller
Dipl. - Ing. Marco Kullik

Version of test report: 1.0

1.2 Project Data

Project leader: Dipl.-Ing. Andreas Petz

Date of test report: 2002-08-13

Date of first test: 2002-08-12

Date of last test: 2002-08-12

1.3 Applicant Data

Company name: Clarion

Address: Phase 3, Free Industrial Zone
11900 Bayan Lepas
Penang
Malaysia

Contact person: Mr. Pang Tong Khim

1.4 Manufacturer Data

Company name: see Applicant

Address:

Contact person:

2. Testobject Data

2.1 General EUT Description

Product Category:	Mobile Phone Accessory	
Equipment under test:	Clarion Bluetooth Car Kit CM HS1	
Nominal voltage:	5.5 V	
Low voltage:	5.5 V	
High voltage:	5.5 V	
Power class:	2	
Longest supp. packet:	DH1	
Max. antenna gain:	0,0	dBi
Nominal temperature:	23°C	
Low temperature:	-20°C	
High temperature:	+80°C	

2.2 Supported Profiles

- ☐ Profile K1:GAP Conformance
- ☐ Profile K2:SDAP Interoperability
- ☐ Profile K3:Cordless Interoperability
- ☐ Profile K4:Intercom Interoperability
- ☐ Profile K5:Serial Port Profile Conformance
- ☒ Profile K6:Headset Interoperability
- ☐ Profile K7:DUN Interoperability
- ☐ Profile K8:FAX Interoperability
- ☐ Profile K9:LAN Access Interoperability
- ☐ Profile K11:Object Push Profile Interoperability
- ☐ Profile K12:File Transfer Profile Interoperability
- ☐ Profile K13:Synchronization Profile Interoperability
- ☐ Extended Service Discovery Profile
- ☐ Personal Area Network Interoperability Profile
- ☐ Basic Printing Interoperability Profile
- ☐ Hardcopy Cable Replacement
- ☐ Hands-Free Interoperability Profile
- ☐ Basic Imaging Interoperability Profile
- ☐ Audio/Video Distribution Transport Protocol Conformance
- ☐ Audio/Video Control Transport Protocol Conformance
- ☐ Generic Audio/Video Distribution Profile Conformance
- ☐ Advanced Audio Distribution Profile Interoperability
- ☐ Audio/Video Remote Control Profile Interoperability
- ☐ Human Device Interface
- ☐ Common ISDN Access Profile
- ☐ SIM Access Profile



2.3 EUT: List of Devices and Configurations

BD Address	Configura- tion	HW status	SW status	Serial Number	Date of receipt	Date of return
0050c215a032	c02	FIPICD 03	FIS00104	F1034	2002-08-12	2002-08-12

2.4 EUT: Equipment for Profile Interoperability Testing

Short Description	Interoperability Device	Type Designation	Manufac turer	HW Status	SW Status	Serial No.
Mobile Phone	Nokia	6310	Nokia	-	-	-
Mobile Phone	Ericsson	R 520 m	Ericsson	-	-	-

2.5 (Interoperability) Test Setups

Setup No.	Combination of EUT and Interoperability	Remarks
setup01	EUT + Ericsson R520m + Siemens ME 45	
setup02	EUT + Nokia 6310 + Siemens ME 45	

3. Test Results

3.1 General

Documentation of tested devices and results:

Available at the 7 layers AG Test Laboratory.

The complete set of measurement results is stored in printed form at the 7 layers AG Test laboratory and is available on demand.

The reference to the test system print outs is shown by the unique combination of the Test Case Identifier (TCID), EUT, Test conditions (temp., voltage, packet type) and Date of Test.

Interpretation of test results:

The results of the inspection are described on the following page(s). "Passed" in the summary list in chapter 3.2 of this test report means:

1) The performed tests were verified according to:

Test Case Reference List **2002-07-22**

Test Case Reference Addendum **-**

Core Specification Ver. **1.1**

and were verified according to the following Test Specifications and ICS/IXIT documents:

Test Spec Name	Test Spec Ver.	ICS/IXIT Ver.
Part K:6	K:6: 1.1	0.91

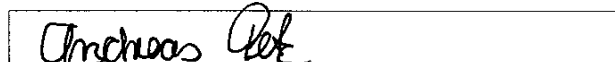
2) The tested device is conformant to the Bluetooth specifications.

The detailed results of all performed tests are available within the internal documentation of the test laboratory.

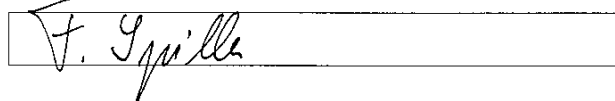
In cases where "declaration" is stated in the summary list, the corresponding documents are available within the clients documentation.

In cases where "not applicable" is stated in the summary list, the test case requirements are not relevant to the specific test equipment implementation.

Project leader:



Responsible for accreditation scope:





3.2 Summary List

Part K:6 (Protocol Test Results)

TC Identifier		Test Spec.								
Description										
Test Voltag	Test Temp	Test System	Setup	IUT Config	Date	Result	Notes	Foot- note		
TP/IAC/BV-01-I			K:6: 1.1							
Inc Connect establ – AG										
Normal	Normal	IOP	setup01	c02	2002-08-12	Passed				
TP/IAC/BV-02-I			K:6: 1.1							
Inc Connect establ – inband ring										
Normal	Normal	IOP	setup02	c02	2002-08-12	Passed				
TP/OAC/BV-01-I			K:6: 1.1							
Outg Connect establ – HS										
Normal	Normal	IOP	setup02	c02	2002-08-12	Passed				
TP/ACR/BV-01-I			K:6: 1.1							
Connect release – HS										
Normal	Normal	IOP	setup01	c02	2002-08-12	Passed				
TP/ACR/BV-02-I			K:6: 1.1							
Connect release – AG										
Normal	Normal	IOP	setup01	c02	2002-08-12	Passed				
TP/ACR/BV-03-I			K:6: 1.1							
Connect release – ext terminal										
Normal	Normal	IOP	setup01	c02	2002-08-12	Passed				
TP/ACT/BV-01-I			K:6: 1.1							
Connect transfer – HS initiated										
Normal	Normal	IOP	setup01	c02	2002-08-12	Passed				



Part K:6 (Protocol Test Results)

TC Identifier		Test Spec.		Description					
Test Voltag	Test Temp	Test System	Setup	IUT Config	Date	Result	Notes	Foot- note	

TP/ACT/BV-02-I K:6: 1.1

Connect transfer – AG initiated

Normal	Normal	IOP	setup02	c02	2002-08-12	Passed			
--------	--------	-----	---------	-----	------------	--------	--	--	--

TP/RAV/BV-01-I K:6: 1.1

Speaker vol ctrl – remote/local

Normal	Normal	IOP	setup02	c02	2002-08-12	Passed			
--------	--------	-----	---------	-----	------------	--------	--	--	--

TP/RAV/BV-02-I K:6: 1.1

Speaker vol ctrl – remote

Normal	Normal	IOP	setup02	c02	2002-08-12	Passed			
--------	--------	-----	---------	-----	------------	--------	--	--	--

3.3 Footnotes and Testsystem Environmental Conditions

Footnotes:

- no footnotes present

Test System Environmental Conditions:

Test System IOP

	Date	Temperature	Humidity	AirPressure
	12.08.2002	24 °C	60 %rel	1010 hPa



4. Description of Test Systems

5. List of used Equipment

Rohde & Schwarz TS8960

Testlab Ratingen, BT Lab

Bluetooth RF Conformance Test System

Manufacturer	Rohde & Schwarz	Hardware version(s)	Ident-No.: 1133.1810.02
Serial no.	338864	Software version(s)	Operation System: SuSE Linux 6.0, Kernel 2.0.36 Test System Software: (1.12) (1.14) (1.17) (1.18) (1.19) (1.22) (1.23) (1.24pre) (1.24) 1.24 + Patch + 2.0
Equipment	Type	Serial no.	Manufacturer
Laserprinter	Laserjet 2100	FRFJ023447	HP
Monitor 19"	Flexscan T68	50565029 -ED	EIZO
Power Meter	NRVD	832025/059	Rohde & Schwarz
Power Sensor	NRV-Z1	832279/013	Rohde & Schwarz
	NRV-Z1	832279/015	Rohde & Schwarz
Power Supply	PS-2403D	-	Conrad
	E3632A	MY40003776	Agilent
RF Step Attenuator	RSP	833695/001	Rohde & Schwarz
Rubidium Frequency Normal	MFS	002	Efratom
Signal Analyser	FSIQ26	832695/007	Rohde & Schwarz
Signal Generator	SMIQ03B	832870/017	Rohde & Schwarz
	SMIQ03B	101175	Rohde & Schwarz
	SMP 03	833680/003	Rohde & Schwarz
Signal Switching and Conditioning Unit	SSCU	338826/005	Rohde & Schwarz
Signalling Unit	PTW60 for TS8960	838312/014	Rohde & Schwarz
System Controller	PSM12	829323/008	Rohde & Schwarz



Annex to Bluetooth Test Report

4_Plext_0102_BTT_HS_01a

Headset Profile Interop
for Clarion

Audio-Headset CM HS1

Version: 11.10.2001

7 layers AG

Borsigstrasse 11

D-40880 Ratingen

Germany

Phone: +49 (0) 2102 749 100

Fax: +49 (0) 2102 749 111

Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the testing laboratory.

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Ratingen, HRB 3264
Aufsichtsratsvorsitzende -
Chairman of the Supervisory Board:
Dr. Sabine Grobecker

Vorstand - Board of Directors:
Dr. Wolfgang Dahm
Dr. Hans-Jürgen Meckelburg

7 layers AG, Borsigstrasse 11
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1. Test Results

1.1. General

Interpretation of test results: The results of the performed tests are described on the following page(s).

"pass" in the summary list in chapter 4.2 of this test report means that the tests according to the following Test Specification

Test Spec Name	Test Spec Ver.
Part K:6: Test Suite Structure (TSS) and Test Purposes (TP) for Headset Profile	22.B.363/1.1

were successfully performed and evidence for the pass verdict is presented in this report.

General deviations from the Interop test specification: None.

1.2. Audio connection establishment

1.2.1. TP/IAC/BV-01-I [Inc Connect Establ - AG]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. The AG and the HS gave an alert
2. After pressing the off/on hook button on HS a bi-directional conversation over the HS was possible

Verdict:

Requirement	Tested in:	Verdict
1) Upon the call/audio connection initiation, the HS or AG might give an alert.	Item 1	passed
HS: 2) If an alert is provided the followed user action on the HS establish the call/audio connection and bi-directional conversation or any other intended audio applications possible.	Item 2	passed
3) If no alert is provided the call/audio connection is established without any further user action and bi-directional conversation or any other intended audio application is possible.	-	-
AG: 4) It might be indicated that a call/audio connection is established.		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.2.2. TP/IAC/BV-02-I [Inc Connect Establ - Inband ring]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection to the AG was established and the HS gives the provided in-band ring tone to the HS
2. After pressing the off/on hook button on HS a bi-directional conversation over the HS was possible

Verdict:

Requirement	Tested in:	Verdict
HS: 1) Upon the call/audio connection initiation to the AG, the HS gives the provided in-band ring tone as an alert in the earpiece.	Item 1	passed
2) The followed user action on the HS establishes the call/audio connection and bi-directional conversation is possible.	Item 2	passed
AG: 3) It might be indicated that a call/audio connection is established.		N/A

Comment: The Nokia phone was used for this test, because the Ericsson phone doesn't provide an in-band ring tone

Deviations from Conformance Test Specification:

None.

1.2.3. TP/OAC/BV-01-I [Outg Connect establ - HS]**Test Setup:**

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. Established an outgoing call connection from the HS towards the AG via voice dialling.
2. After taking the called phone off hook on HS, a bi-directional communication over the HS was possible.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user action on the HS establishes the call/audio connection and bi-directional conversation is possible.	Item 1 and 2	passed
AG: 2) It might be indicated that a call/audio connection is established.		N/A

Comment: The customer decided to use the dialling procedure via the voice-dialling feature of the mobile, therefore we use the Nokia phone for these test case.

Deviations from Conformance Test Specification:

None.

1.3. Audio connection release

1.3.1. TP/ACR/BV-01-I [Connect release - HG]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the off/on hook button of the HS the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the HS releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode	Item 3	passed
AG: 3) The AG returns to Standby mode		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.3.2. TP/ACR/BV-02-I [Connect release - AG]**Test Setup:**

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the on hook button of the AG the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the AG releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode	Item 3	passed
AG: 3) The AG returns to Standby mode		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.3.3. TP/ACR/BV-03-I [Connect release - ext terminal]**Test Setup:**

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the on hook button of the external terminal the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the external device/terminal releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode.	Item 3	passed
AG: 3) The AG returns to Standby mode.		N/A

Comment: None.

Deviations from Conformance Test Specification:
None.

1.4. Audio connection transfer

1.4.1. TP/ACT/BV-01-I [Connect transfer - HS initiated]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active and a bi-directional conversation between external terminal and the AG is possible.
2. Pressing the off/on hook button at the HS transfers the call connections from the AG to the HS.
3. After the transfer a bi-directional conversation was ongoing between HS and external terminal.

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the HS transfers the audio connection from AG to HS.	Item 2	passed
HS: 2) The call/audio connection is ongoing on the HS.	Item 3	passed
AG: 3) The call/audio connection is ongoing on the AG (no voice I/O on AG).		

Comment: None.

Deviations from Conformance Test Specification:

None.

1.4.2. TP/ACT/BV-02-I [Connect transfer - AG initiated]**Test Setup:**

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active and a bi-directional conversation between external terminal and the HS is possible.
2. After executing the transfer function of the AG the transfer of the call connection from HS to the AG was executed.
3. The HS returns to standby mode.
4. After the transfer a bi-directional conversation was ongoing on the AG.

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the AG transfers the audio connection from HS to AG.	Item 2	passed
HS: 2) The HS returns to Standby mode.	Item 3	passed
AG: 3) The call/audio connection is ongoing on the AG.	Item 4	passed

Comment: None.

1.5. Remote audio volume control

1.5.1. TP/RAV/BV-01-I [Speaker vol ctrl - remote / local]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

This test is covered by TP/RAV/BV-02-.

Test Results:

1. A call connection is active.
2. After pressing the volume+ control button of the AG the volume raised significantly above nominal level.
3. After pressing the volume- control button of the HS the volume decreased significantly below nominal level.
4. After pressing the volume+ control button of the AG the volume increased to nominal level.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user actions on the HS and AG result in the respective speaker volume settings.	Item 2 to 4	passed
AG: 2)		

Comment: The Nokia phone was used, because the Ericsson phone was not capable to control the volume on the headset

Deviations from Conformance Test Specification:

None.

1.5.2. TP/RAV/BV-02-I [Speaker vol ctrl - remote]**Test Setup:**

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the volume+ control button of the AG the speaker volume of the HS increased to the maximum value.
3. After pressing the volume- control button of the AG the speaker volume of the HS decreased to the minimum value.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user actions on the AG results in the respective speaker volume settings.	Item 2 to 3	passed

Comment: The Nokia phone was used, because the Ericsson phone was not capable to control the volume on the headset

Deviations from Conformance Test Specification:

None.

[illegible]

=====
ROND & SCHMARS Carific. Blueooth Test Syntom TS8960 SM Version: bl_24
Program name: tcAllPower
Program revision: 1.15
All Power Measurement Test Cases
Report Case started: 2022-08-17, 20:41:19 (7699:00)
Report File: ./dat/03100a01/03100a01.mm.rep
Operator's account name: ts8960
Global Parameter Settings:
Wait On Compare : No
Wait On OUTSIDE : No
Wait On IN : No
Wait On PFI : No
Skip Manual Interventions : No
Plots Disabled : No
Remove Plots after Program Run : No
Plots Enabled : No
Skip Manual Interventions : No
Force Mode : 2
Part : 2
=====

Starting program tcAllPower:
=====
TC Power Density RFC Check
Test Specification RF: 0.91
=====

Starting TC Power Density (TRM/CH/02/C)
=====
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT EUT COMD'
=====

Next measurement will be running with the following EUT parameters:
Manufacturer: Clarion
Model: P1031
Serial: 0809312293
Comment: IM Status: F1031 03
SM Status: 272 BC02x_het_ivl_jk_3_56
Configuration: a01
S/N: F1031
Operator: Hof

Setup mode: Final Testing
Country: All
Pseudo Whitening: On
Host Connection Request: No
EUT Address: 0809312293
Active Member Address: 0809312293
Access Code from EUT: AF0FC69A24112005 hex
Access Code from SU: AF0FC69A24112005 hex
Connection Page TO: 9000
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Gain: 0.000 dBm
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Longest Packet Type: DM1
Voltage Value 1: 5.500 Volt
Voltage Value 2: 23.000 Volt
Temperature: 23.000 Deg C
Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle

Power Mode: Not Controlled
Measurement: Conducted
EUT Test Mode: Loopback
BI Signal Packet Type: DM1
BI Signal Packet: Yes 9
Whitening: No
EUT Tx Frequency: Hopping
EUT Rx Frequency: Hopping
Measurement Frequency Start: 2121.000 MHz
Measurement Frequency Stop: 2475.000 MHz
BI Signalling Level: -55.000 dBm
Operator intervention start at 2022-08-17, 20:42:05
Please prepare the EUT for Test Mode Activation
Operator intervention end at 2022-08-17, 20:42:10
=====
TX [MHz] RX [MHz] START [MHz] STOP [MHz] PEAK-FREQ [dBm] LEVEL [dBm] LIMIT VERDICT
hop hop 2121.0 2171.0 2158.37475 -29.347
hop hop 2171.0 2421.0 2419.89780 1.645
hop hop 2421.0 2471.0 2469.08619 3.090
hop hop 2471.0 2521.0 2470.08602 23.707
hop hop 2521.0 2561.0 2520.08602 -23.707
hop hop 2474.8 2475.3 2474.99950 3.169
hop hop 2475.0 2475.0 2474.99950 3.252 < 20.000 PASS
=====
All selected Power Density Tests are completed
=====
Report file closed at 2022-08-17, 21:23:33
=====

```

=====
ROHDE & SCHWARZ Conflic. Bluetooth Test System TS8960 SW Version: bl_24
Program name: tc-AllPower                                program revision: 1.15
=====
All Power Measurement Test Cases

Report Case started: 2003-08-17, 19:09:41 (TS896008)
Report File: ../dat/03100ae01/0310Ga01.smm.rxp
Ent File: 0310Ga01
Operator's account name: ts8960

Global Parameter Settings:

Wait On Compare      : No
Wait On OUTSIDE     : No
Wait On Error        : No
Abort On FAIL        : No
Skip Manual Interventions : No
Plots Disabled       : No
Remove Plots after Program Run : No
Plotting Method      : No
Start Mode           : No
Force Mode           : No
Part                 : 4

Starting program tc-AllPower
=====
FX Output Spectrum - Frequency Range= NFC Chuck

```

RF TX Output Spectrum - Frequency Range RF Check

Test Specification RF: 0.91

next measurement will be running with the following EUT parameters:

Manufacturer:	Clarion
Model:	Headset
Serial No:	P1031
Comment:	HW Status: FIPCD 03 SW Status: 272 HC022_Hcl_1v1_1k_1.56 Configuration: 401 S/N: P1031

Operator: 110

```

Setup mode:
Test Mode Handle:
Final Testing
Every Parameter Set

```

```
On 01/06/2025 12:01 PM, "Dennis Whittington" <dwhitting@nvidia.com> wrote:  
On 01/06/2025 12:01 PM, Dennis Whittington wrote:  
0050C215A02F hex  
0050C215A02F hex  
0050C215A02F hex  
0050C215A02F hex  
AFBF1C69A2E1120D5 hex  
AFBF1C69A2E1120D5 hex  
Time Stamp  
9010 ms  
ms  
100 ms  
Not supported  
0.000 dBm  
0.000 dBm  
0.000 dBm  
DH1  
5.000 Volt  
5.000 Volt  
23.000 Deg C
```

next measurement will be running with the following parameters:

Voltage:	Middle
Temperature:	Middle

Measurement: Conducted
EUT Test Mode: Loopback
BI Signal Pattern: PRRS 9
Whitening: Yes
EUT Tx Frequency: 2480.000 MHz
EUT Tx Power: 20.000 dBm
BI Signal Frequency: 2480.000 MHz
BI Signal Power: 20.000 dBm
Number of Sweeps: 10
Operator intervention start at 2002-08-17, 19:25:06
Operator intervention end at 2002-08-17, 19:25:10
Operator intervention Type: Please prepare the EUT for Test Mode Activation!
TX FREQ STOP LOW HIGH BW LIMIT VERDICT
(MHz) (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) (MHz)
2480 2402 2479.0 2481.0 2479.568 2480.404 0.836 <= 1.000 PASS
All selected TX Output Spectrum - 20 dB Bandwidth tests are completed
=====

Program name: tc.AllPower
Program revision: 1.15
All Power Measurement Test Cases

Test Case started: 2002-08-17, 19:25:01 (TSB9400)
EUT File: 01100401/01100401.rm, rtp
Operator's account name: Lab950
Global Parameter Settings:
Wait On Compare : No
Wait On OUTSIDE : No
Wait On FAIL : No
Abort On FAIL : No
Remove Interventions : No
Plots Disabled : No
Remove Plots after Program Run : No
Info Enabled : No
Short Mode : No
PARC : 5

Starting program tc.AllPower

TC TX Output Spectrum - 20 dB Bandwidth RFC Check

Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMD'

Next measurement will be tuning with the following EUT parameters:

Manufacturer: Clarion
Model: F1031
Serial No: F1031
Comment: HW Status: F1031CD 01
SN Status: 272 BC02x_het_lvi_lk_3_56
Configuration: a01
S/N: F1031
Operator: hof

Setup Mode: Final Testing
Test Mode Handle: Entry Parameter Set
Country: All
Pseudo whitening: On
Host Connection Request: No
Host Connection: 00000007 hex
Tester Address: 00000007 hex
Active Member Address: AF0F1C9A24112005 hex
Access Code from EUT: AF0F1C9A24112005 hex
Access Code from SUT: AF0F1C9A24112005 hex
Connection Page TO: 9000 Time Slots
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Add. Transmission (Receiver): 0.000 dB
Add. Transmission (Transmitter): 0.000 dB
Longest Packet Type: Dsl
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C

Next measurement will be running with the following parameters:

Voltage: Middle
Power Mode: Not Controlled

```

*****
*** ROMIE & SCHIMAZZ Certific. Bluecoast Test System TS960 SN Version: bl_24 ***
*****
Program name: tc_allpower          Program revision: 1.15

All Power Measurement Test Cases

Test Report created: 2012-08-17, 15:38:11 (TSR960M)
Report File: ../dat/G3100A01/G3100A01.mm.rep
Ent File: G3100A01
Operator's account name: tsr960

Global Parameter Settings:

Mail On Complete      : No
Nak On Outside        : No
No Mail On Error       : No
Abort On Fail         : No
Skip Manual Interventions : No
Plots Disabled        : No
Remove Plots after Program Run : No
Removes Plots if Failed : No
Short Mode           : No
Force Mode           : No
Part                 : 5

```

TC	TX	Output	Spectrum	- 20	dB	Bandwidth	RFC	Check
----	----	--------	----------	------	----	-----------	-----	-------

Test Specification RF: 0.91

Next measurement will be running with the following EUT parameters:

Operator: HOE

text measurement will be running with the following parameters:

Voltage: Middle
Temperature: Middle
Power Mode: Not Controlled

2477.0 2402.0 2471.0 -55.863 <= -40.000 (0) PASS
2477.0 2402.0 2472.0 -50.808 <= -40.000 (0) PASS
2477.0 2402.0 2473.0 -45.751 <= -40.000 (0) PASS
2477.0 2402.0 2474.0 -45.945 <= -40.000 (0) PASS
2477.0 2402.0 2475.0 -38.061 <= -20.000 (0) PASS
2477.0 2402.0 2476.0 -35.968 <= -20.000 (0) PASS
2477.0 2402.0 2477.0 -45.786 <= -40.000 (0) PASS
=====

0 Channels of measured 76 channels are OutSine

All selected TX Output Spectrum - Adjacent Channel Power tests are completed

=====

Report file closed at 2002-08-17 20:02:44

=====

2405.0 2480.0 2479.0 -57.838 <= -40.000 { 0} PASS
2405.0 2480.0 2480.0 -50.531 <= -40.000 { 0} PASS
0 channels of measured 76 channels are OUTSIDE

All selected TX Output Spectrum - Adjacent Channel Power tests are completed

Duration 00:18:07
Test Passed: PASS
Report File closed at 2002-08-17, 20:21:55

2441.0 2402.0 2479.0 -58.938 <= -40.000 { 01 PASS
2441.0 2402.0 2480.0 -60.171 <= -40.000 { 01 PASS
=====

0 channels of measured 76 channels are OUTSIDE

All selected TX Output Spectrum - Adjacent Channel Power tests are completed

=====

Duration 00:18:05

Test Case Channel 1, PASS

Report File c:\msdnet\1002-08-17_20:41:10

=====

Power Mode: Not Controlled
Control: Not Controlled
Regulation: ETS 300 328
Loopback: Loopback
BI Signal Packet Type: DM
BI Signal Pattern: PRBS 9
EUT Tx Frequency: 2402.000 MHz
EUT Rx Frequency: 2480.000 MHz
Measurement Frequency Start: 10.000 MHz
Measurement Frequency Stop: 150.000 MHz
Measurement Frequency Step: 15.000 MHz
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 54
Operator Intervention start at 2002-08-17, 22:39:18
Operator Intervention end at 2002-08-17, 22:39:21
Operator Intervention end at 2002-08-17, 22:39:21
Starting 'Out-of-Band Spurious Emissions' measurement method.
FREQUENCY SPURIOUS LEVEL LIMIT VERDICT
(MHz) (dBm) (dBm) (dBm)

0 out-of-band spurious emissions found.
All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed
Duration 00:06:13
Final Test Case Verdict: PASS
Report file closed at 2002-08-17, 22:45:25

=====

RMDE & SCHMARE Cortic, BlueCoch Test System 758960 SW Version: B1_24
Report File: /home/t8960/project/t8960/aw/ALE/cut/03100a01/03100a01_mm.rep
Program Name: tc.SpuriousEmissions
Program Revision: 1.9

=====

Out-of-Band Spurious Emissions Testcase

=====

Test Case started: 2002-08-17, 22:39:12 (758960R)
Report File: /home/t8960/project/t8960/aw/ALE/cut/03100a01/03100a01_mm.rep
Cut File: 03100a01 mmw t8960

=====

Global Parameter Settings:

Wait On Compare : No
Wait On GUSTIDE : No
Wait On FAIL : No
Abort On Fail : No
Skip Manual Interventions : No
Remove Plots after Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : No
Port : 1

=====

Starting Program tc.SpuriousEmissions

=====

TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check

=====

..

Starting TC ETS Out-of-Band Spurious Emissions (conducted) (TRAC/CA/01/C)

=====

Test Specification NP: 0.91

TS Error Request: RF TRC CA 01 ERRATA REQUEST

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COM'

=====

Next measurement will be running with the following EUT parameters:

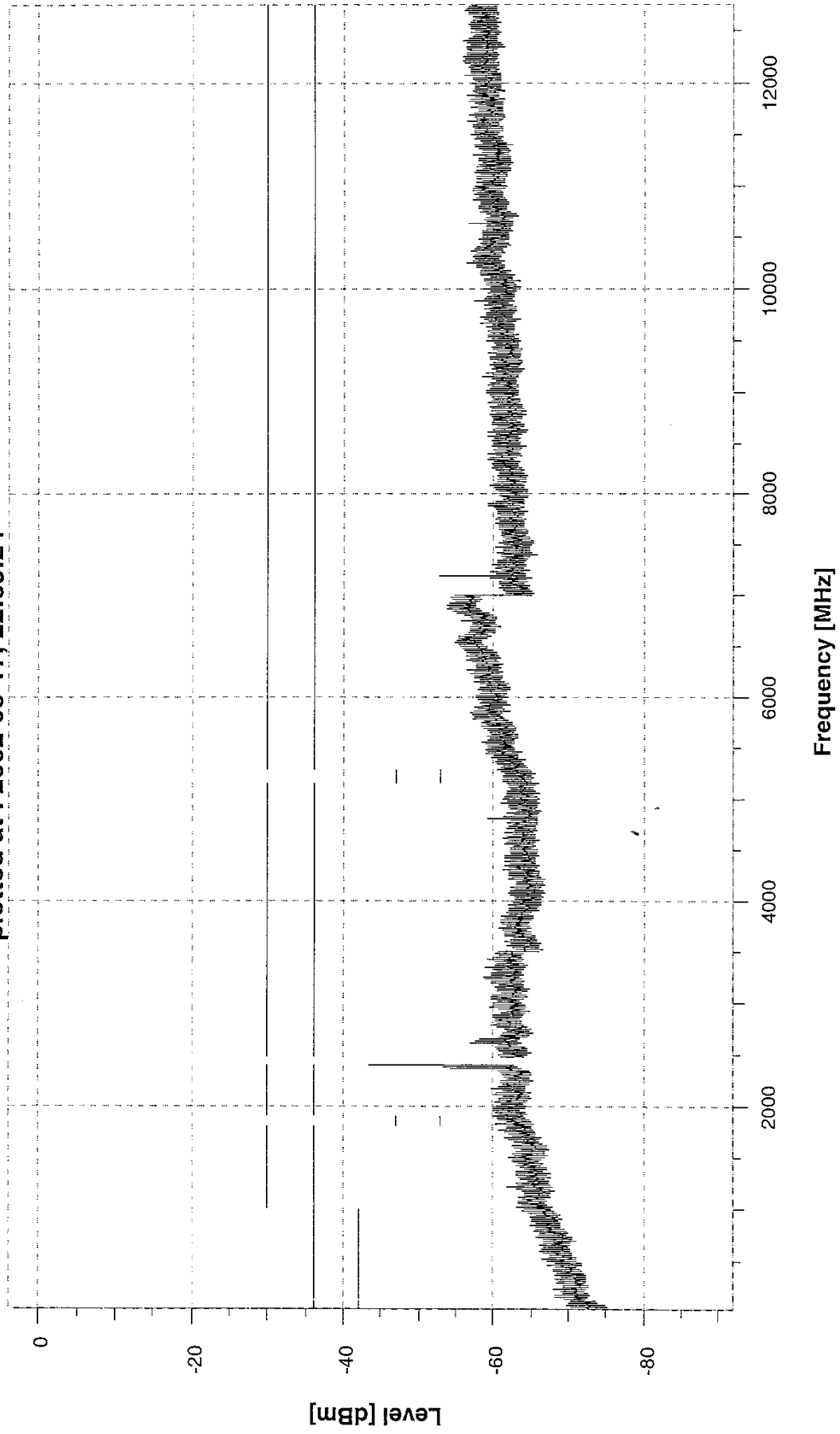
Manufacturer: Clation
Model: Noiset
Part No: 00000007
HW Status: FIFCD 03
SW Status: 272 SC02x_bci_lw_1k_3.56
Configuration: a01
S/N: F1031
Operator: Hef

Setup mode: Final Testing
Country: S-ETS Parameter Set
Host Connection Request: On
Active Number Address: 00000007 hex
Access Code from EUT: AP0F1C69A241120D5 hex
Access Code from SD: AF0F1C69A241120D5 hex
Connection Type: Time Slots
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C

Next measurement will be running with the following parameters:

Voltage: Middle
Temperature: Middle

-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted,
maximum power, tx-frequency: 2402.0, rx-frequency: 2480.0
plotted at : 2002-08-17, 22:39:24



ROME & SCHWABZ Certific. Bluetooth Test System TS8960 SW Version: bl_24
Report File: /home/t8960/project/t8960/sw/ALE/Lc/dat/03100a01/03100a01.tmm.rpt
Program Name: tc.SpuriousEmissions Program Revision: 1.9

Out-of-Band Spurious Emissions Testcase

Test Case started: 2002-08-17, 22:00:15 (TS8960H)
Report File: /home/t8960/project/t8960/sw/ALE/Lc/dat/03100a01/03100a01.tmm.rpt
Out File: 03100a01.tmm.t8960

Global Parameter Settings:

Wait On Connect : No
Wait On DISCONNECT : No
Wait On FAIL : No
Abort On FAIL : No
Skip Manual Interventions : No
Remove Pilots after Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : No
Part : 1

Starting program tc.SpuriousEmissions

TC ETS Out-of-Band Spurious Emissions (conducted) WPC Check

Test Specification Ref: 0.91
TS Errata Request: RF TNC Ch 01 ESRXN REQUEST
BUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT CONO'

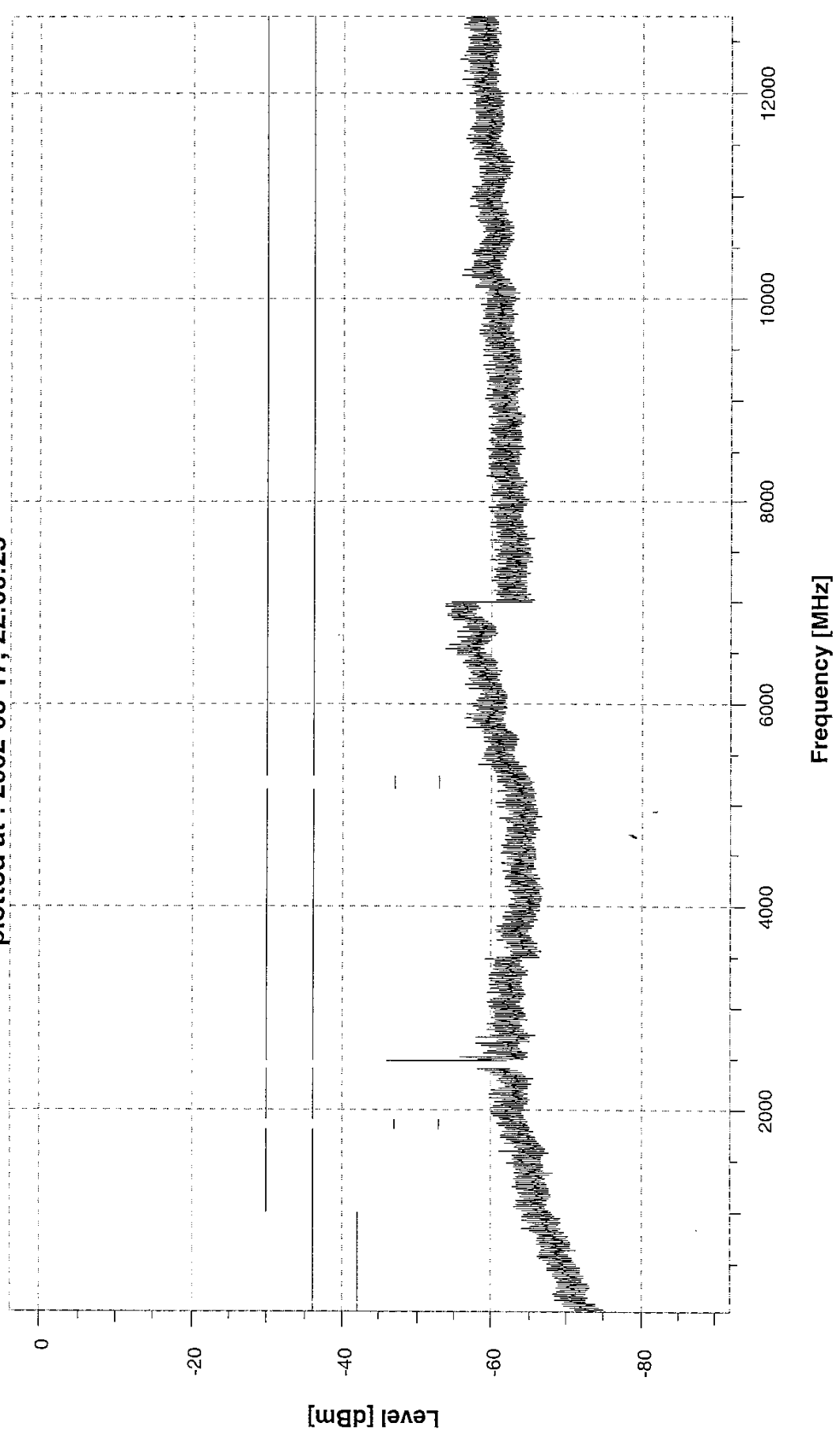
Next measurement will be running with the following EUT parameters:

Manufacturer: Clackson
Model: P1031
Serial No: HW Status: F10CD 03
Comment: C/N: 272 BCD2A_hcl_lvl_1K_3_56
Com: 1
S/N: P1031
Operator: Hof
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Accessories: On
Host Connection Request: No
EUT Address: 0056C715A03F hex
Active Power Address: 008037122091 hex
Access Code from SU: 00000007 hex
Access Code from SU: 112005 hex
Connection Poll Period: 4 AF0F1C69A64112005 hex
Connection Page TO: 9000 Time Slots
Host Connection Setting Delay: 9000 ms
Power Control: No support
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Host Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Voltage Value 2: 23.000 Deg C
Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle

Power Mode: Not Controlled
Measurement: Conducted
EUT Test Mode: ETS 300 378
Loopback: No
BI Signal Pattern: P1031
Whitening: No
SUT Tx Frequency: 2480.000 MHz
SUT Rx Frequency: 2402.000 MHz
Measurement Frequency Start: 12750.000 MHz
Measurement Frequency Stop: 12750.000 MHz
BI Signalling Level: -55.000 dBm
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 54
Operator intervention start at 2002-08-17, 22:00:21
Operator intervention end at 2002-08-17, 22:00:22
Starting 'Out-of-Band Spurious Emissions' measurement method.
FREQUENCY SPURIOUS LEVEL LIMIT VERDICT
[MHz] [dBm] [dBm]
0 out-of-band spurious emissions found.
All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed

Location 00.06.11c
Final Test Case verdict: PASS
Report file closed at 2002-08-17, 22:06:30

-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted,
maximum power, tx-frequency: 2480.0, rx-frequency: 2402.0
plotted at : 2002-08-17, 22:00:25



Power Mode: Standby
Measurement: Conducted
Test Case: 228
EUT Test Mode: Loopback
BI Signal Packet Type: DMI
BI Signal Pattern: PRBS 9
Attenuation: 30.000 MHz
Measurement Frequency Start: 12750.000 MHz
Measurement Frequency Stop: -55.000 dBm
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 1

Starting 'Out-of-Band Spurious Emissions' measurement method.

FREQ (MHz) SPURIOUS (dBm) LIMIT (dBm) VERDICT

0 out-of-band spurious emissions found.

All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed

* Duration 00:06:48
* Final Test Case verdict: PASS
* Report file closed at 2002-08-17, 22:54:37

* ROUTE & SCHEDULE Configuration: DMI
* Program name: tc_SpuriousEmissions program revision: 1.9

Out-of-Band Spurious Emissions Testcase

* Test Case started: 2002-08-17, 22:47:49 (759560R)
* But File: 01100A01
* Operator's account name: t08960

* GLOBAL Parameter Settings:
* Wait On Complete : No
* Wait On OUTSIDE : No
* Wait On FAIL : No
* Stop Manual Interventions : No
* Plots Disabled : No
* Remove Plots after Program Run : No
* Info Enabled : No
* Force Mode : No
* Part : 1

Starting program tc_SpuriousEmissions

TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check

..

Starting TC ETS Out-of-Band Spurious Emissions (conducted) (TRC/CA/01/C)

Test Specification MP: 0.91

TS Error Request: RF TRC CA 01 ERRATA REQUEST

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT EUT COND'

Next measurement will be running with the following EUT parameters:

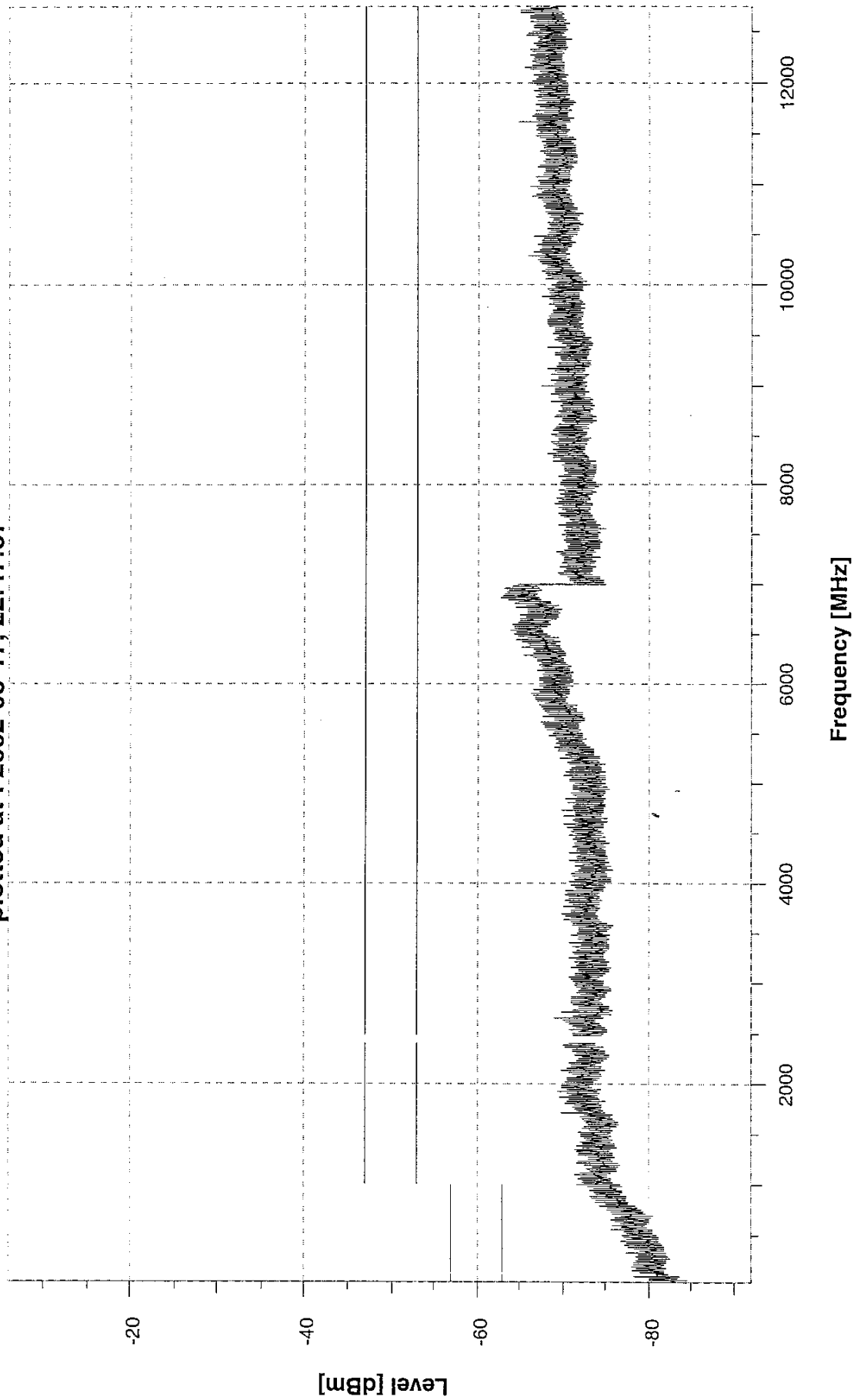
Manufacturer: Clarion
Model: F1031
Serial No: HW Status: F10CD 03
Comment: SW Status: 272 8C00X_hci_lv1_k.3.56
S/N: F1031
Operator: HoF

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: On
EUT Address: 0050C21502F hex
Tester Address: 008037122091 hex
Active Number Address: 00000007 hex
Access Code from SW: 00000000 hex
Access Code from SW: 00000000 hex
Connection Poll Period: 4 0016594112000 hex
Connection Page 10: 9000 Time Slots
Test Parameter Setting Delay: 100 ms
Test Control: 0.000 supported
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Voltage Value 1: 5-500 Volt
Voltage Value 2: 23.000 Volt
Temperature: 23.000 Deg C

Next measurement will be running with the following parameters:

Voltage: Middle
Temperature: Middle

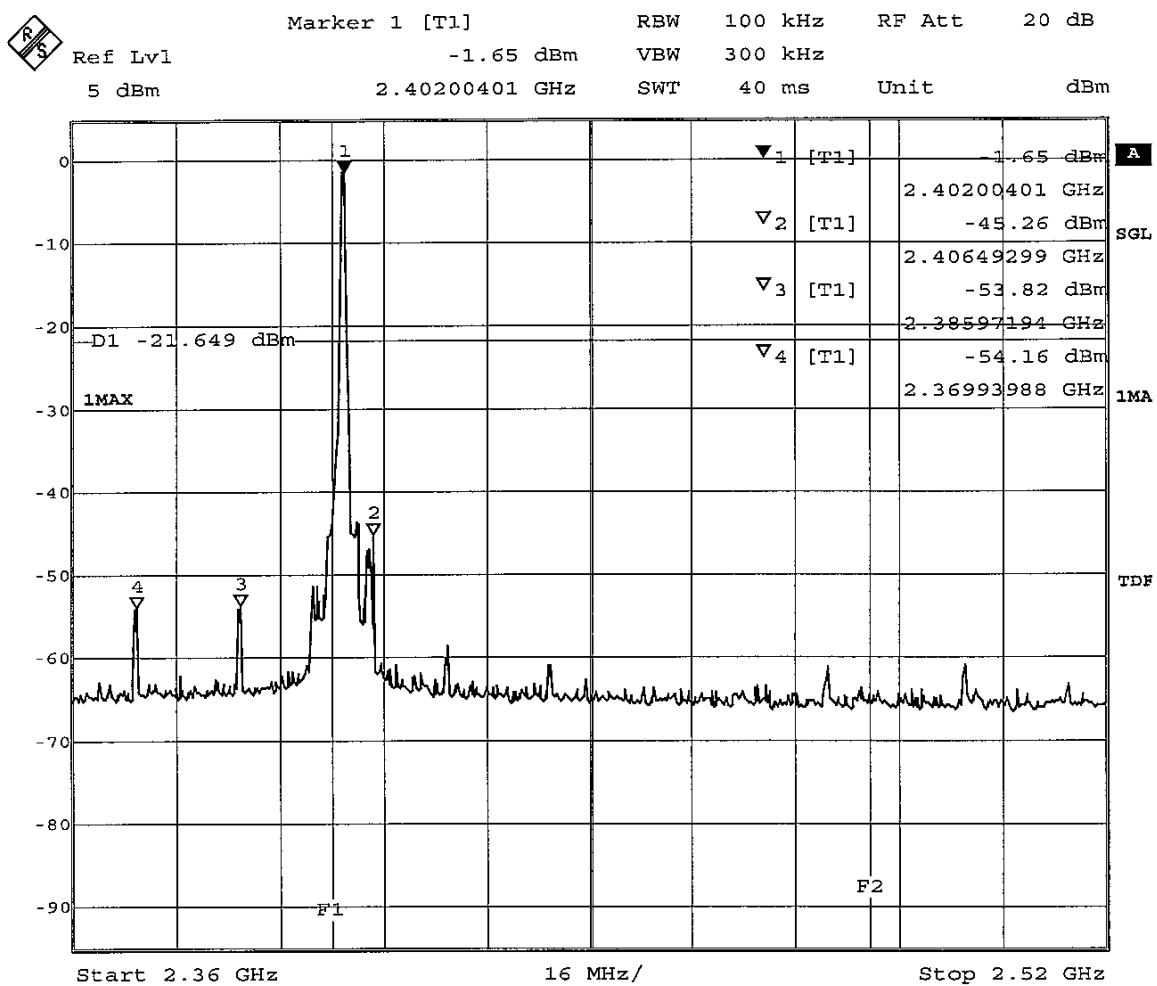
-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted, standby
plotted at : 2002-08-17, 22:47:57



1 Normal Test Conditions (NormTempNormVolt)

1.1 Band Edge Compliance (NTNV)

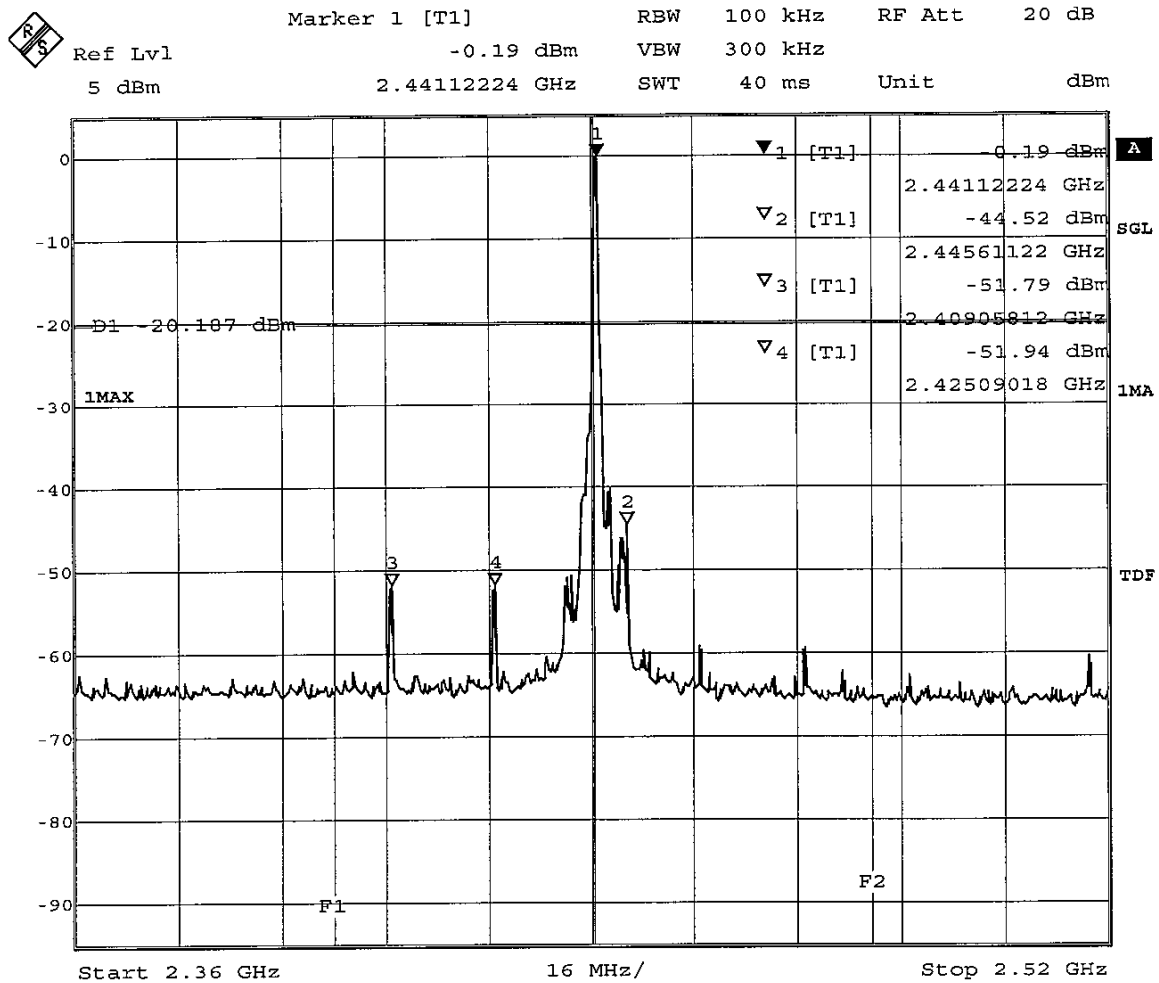
1.1.1 Band Edge Compliance (NTNV) for TX=2402 MHz



Title: Band Edge Compliance
 Comment A: CH B: 2402 MHz
 Date: 12.AUG.2002 10:13:53

Comments:

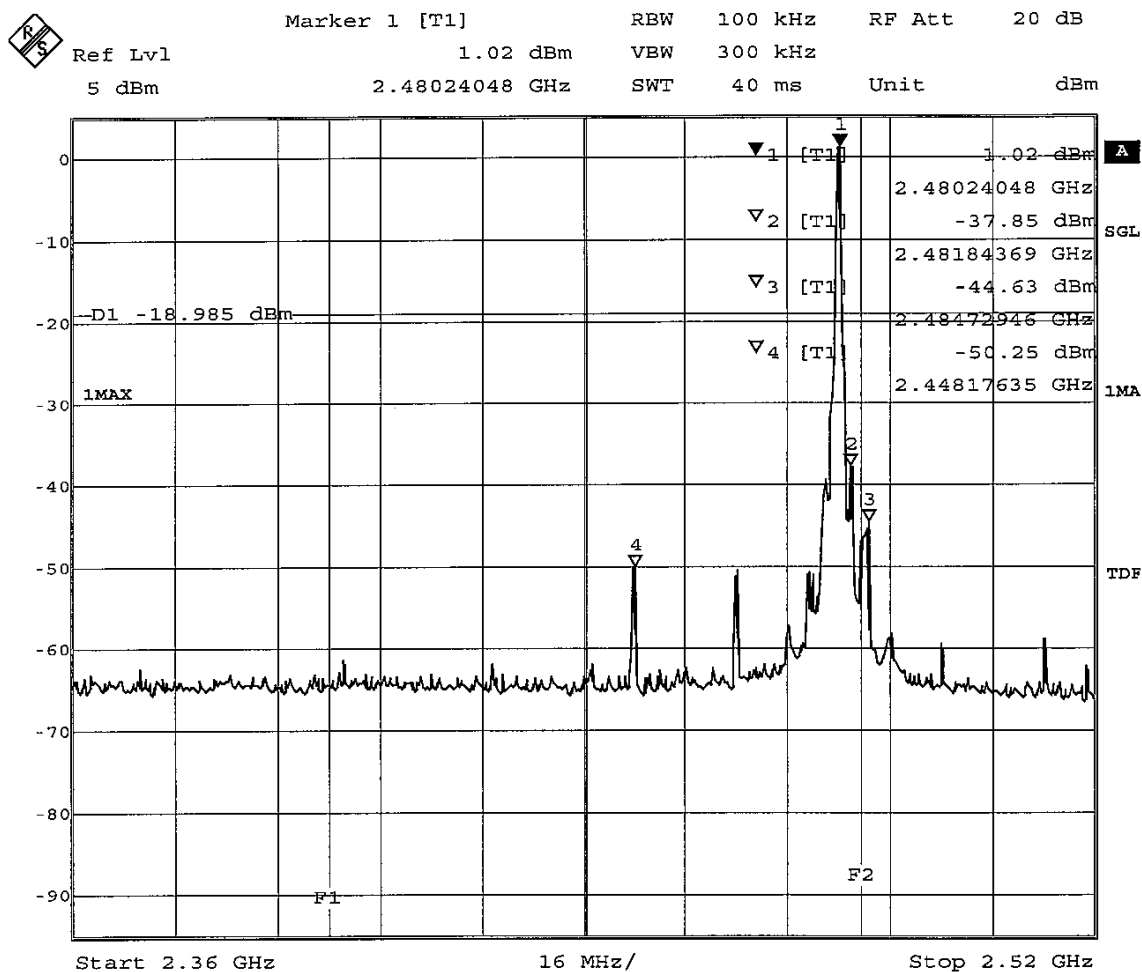
1.1.2 Band Edge Compliance (NTNV) for TX=2441 MHz



Title: Band Edge Compliance
 Comment A: CH M: 2441 MHz
 Date: 12.AUG.2002 10:38:05

Comments:

1.1.3 Band Edge Compliance (NTNV) for TX=2480 MHz

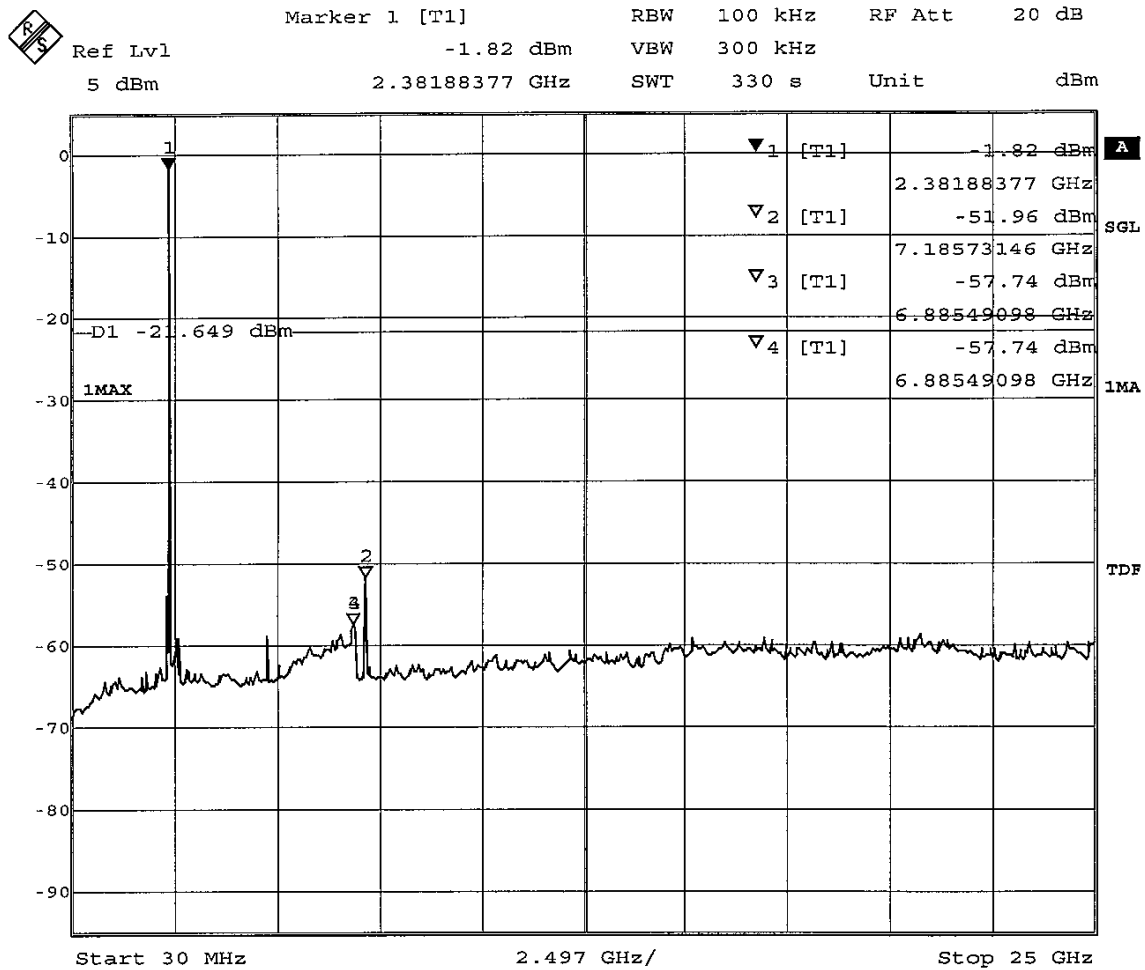


Title: Band Edge Compliance
 Comment A: CH T: 2480 MHz
 Date: 12.AUG.2002 11:03:29

Comments:

1.2 Spurious Emissions (NTNV)

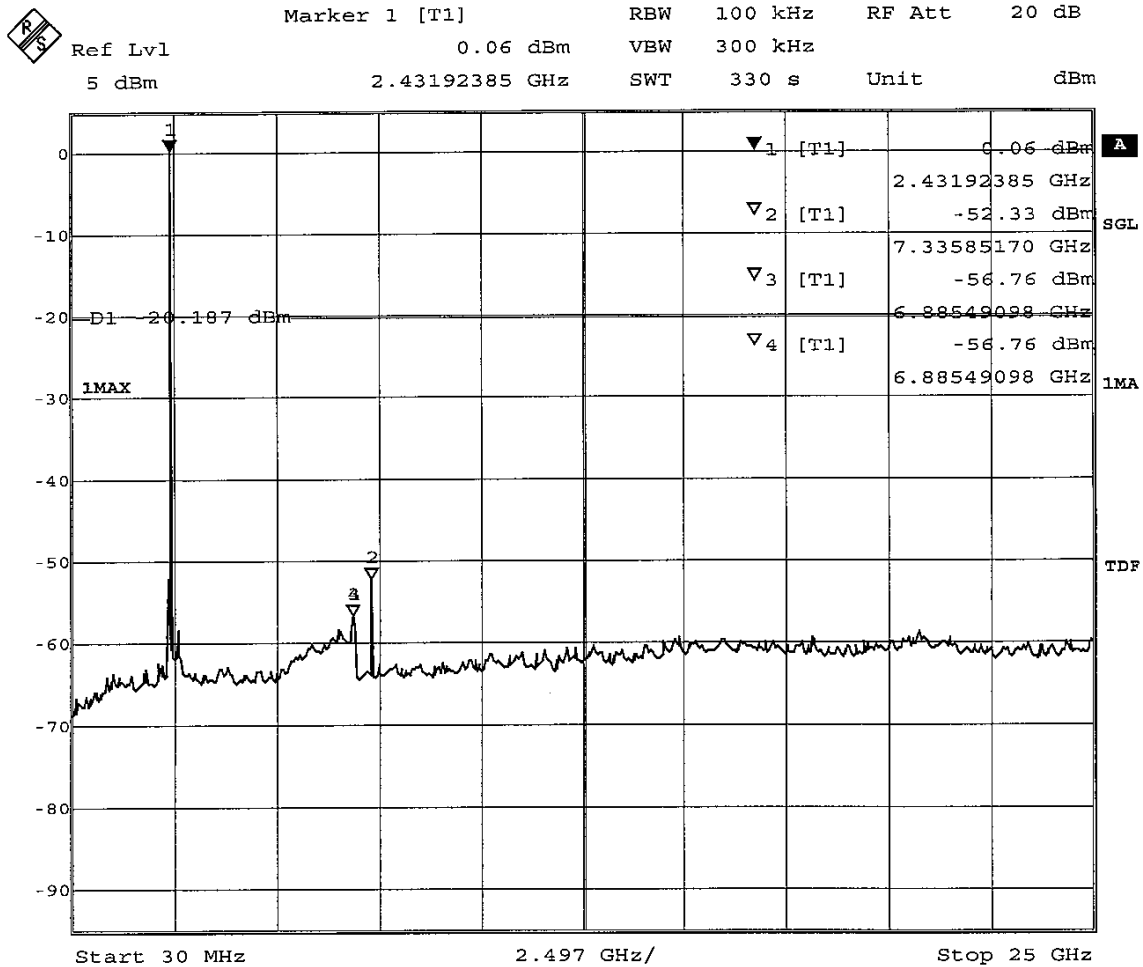
1.2.1 Spurious Emissions TX=2402 MHz (NTNV)



Title: spurious emissions
 Comment A: CH B: 2402 MHz
 Date: 12.AUG.2002 10:25:30

Comments:

1.2.2 Spurious Emissions TX=2441 MHz (NTNV)

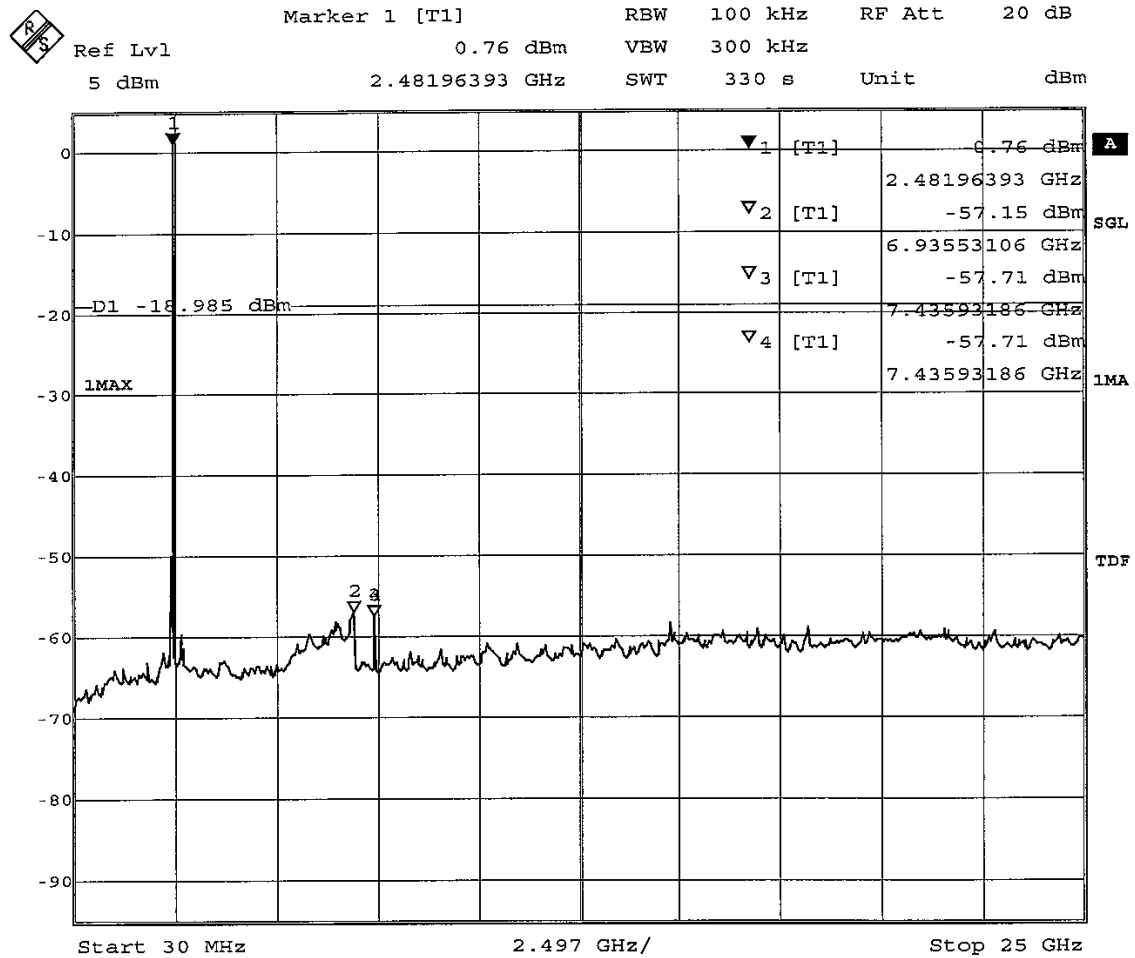


Title: spurious emissions
 Comment A: CH M: 2441 MHz
 Date: 12.AUG.2002 10:49:42

Comments:



1.2.3 Spurious Emissions TX=2480 MHz (NTNV)

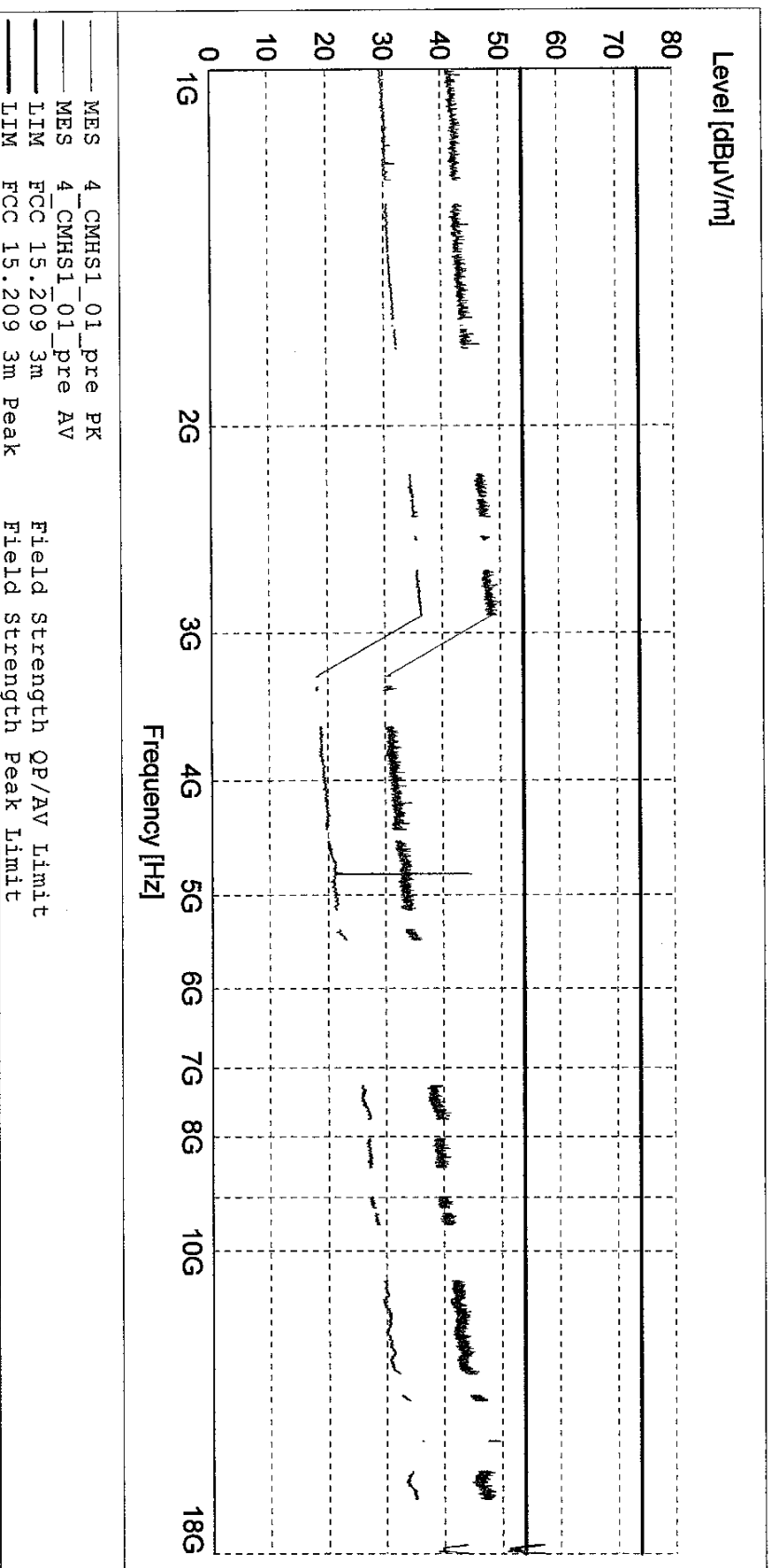


Title: spurious emissions
Comment A: CH T: 2480 MHz
Date: 12.AUG.2002 11:15:06

Comments:

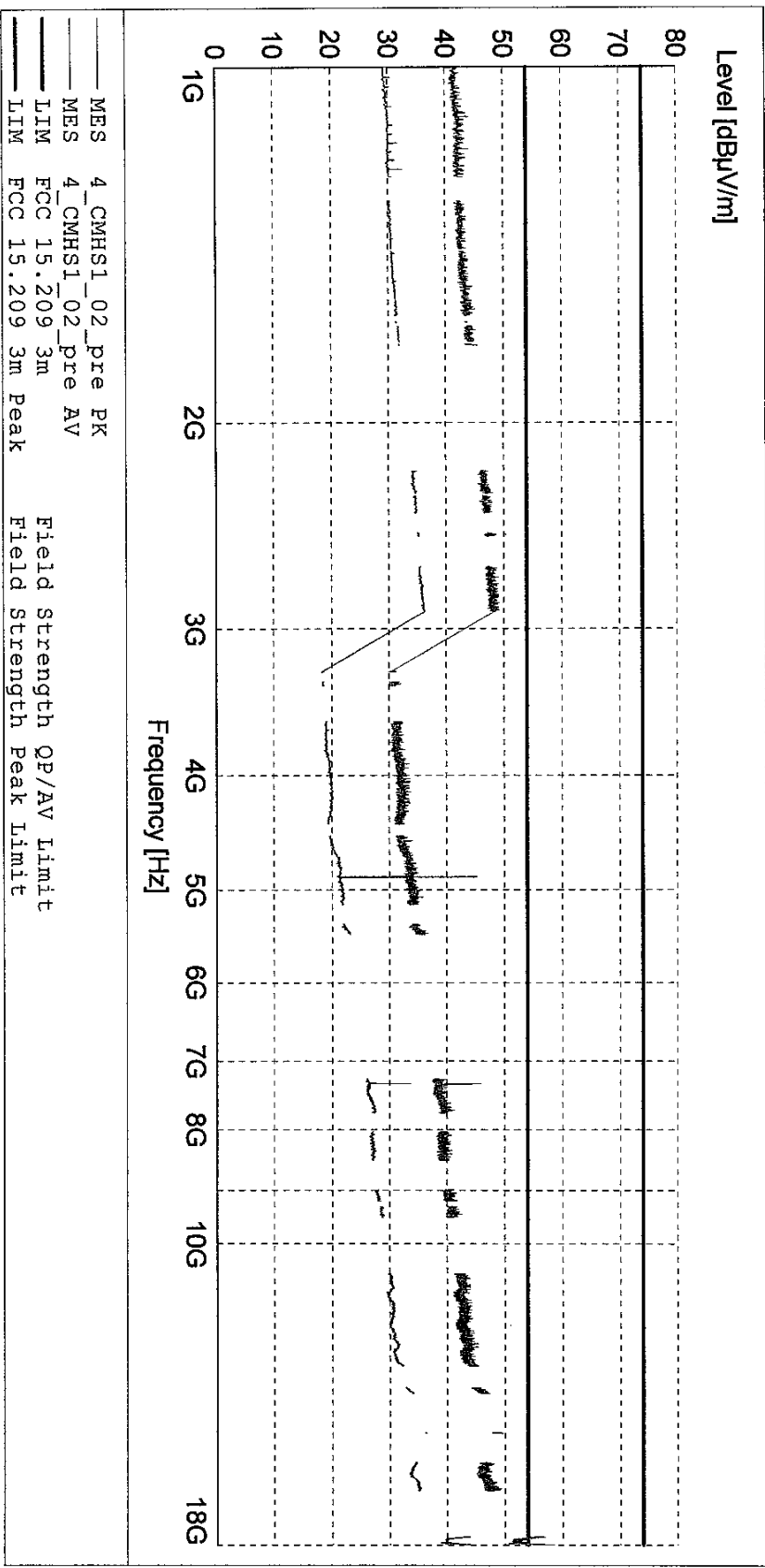
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7 layers Ratingen
 Operator: TAP
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position



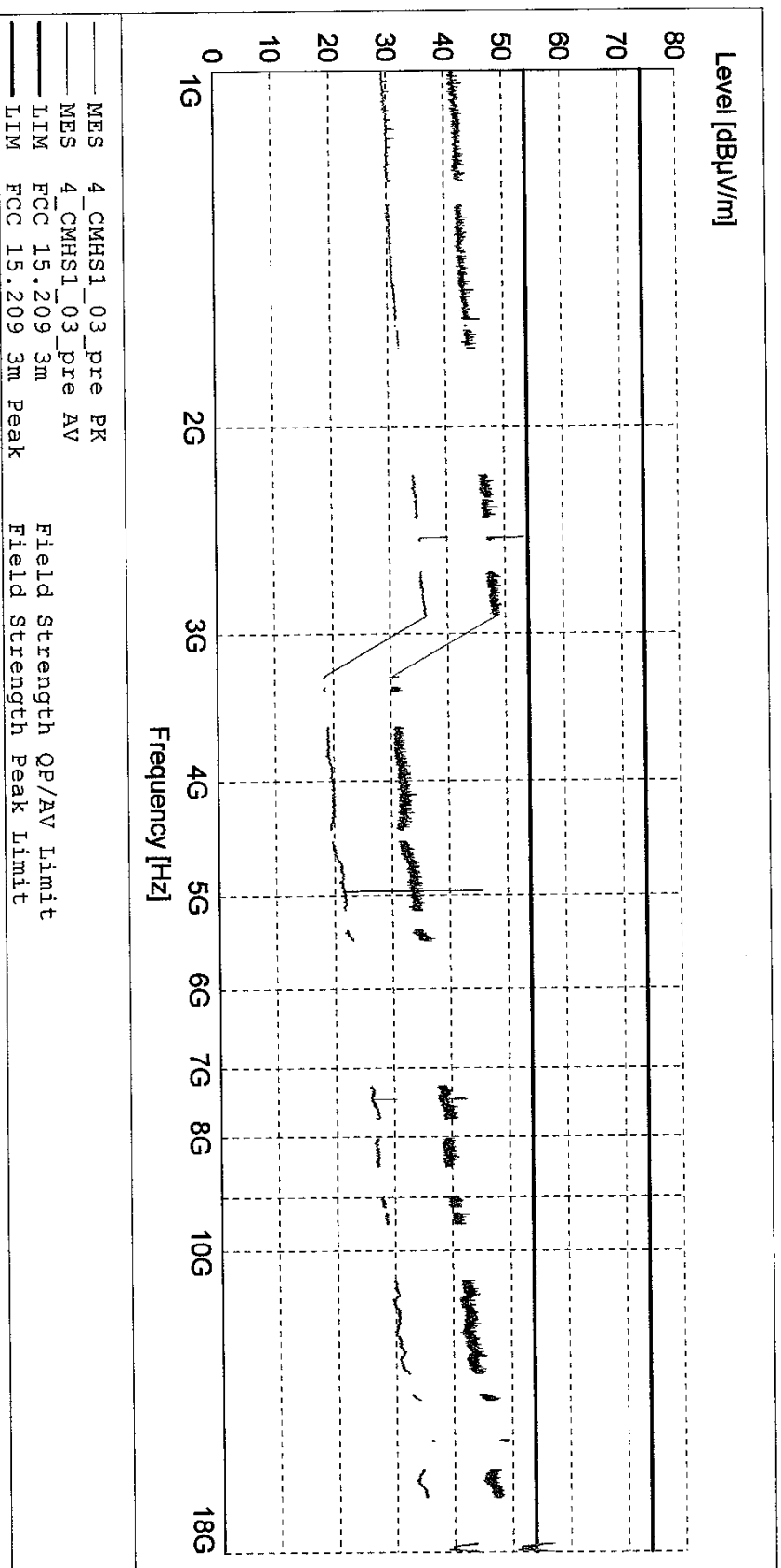
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2441 MHz
Test Site: 7 layers Ratingen
Operator: MAC
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal antenna polarisation
vertical EUT position



SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7 layers Ratlingen
Operator: TAP
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal antenna polarisation
vertical EUT position

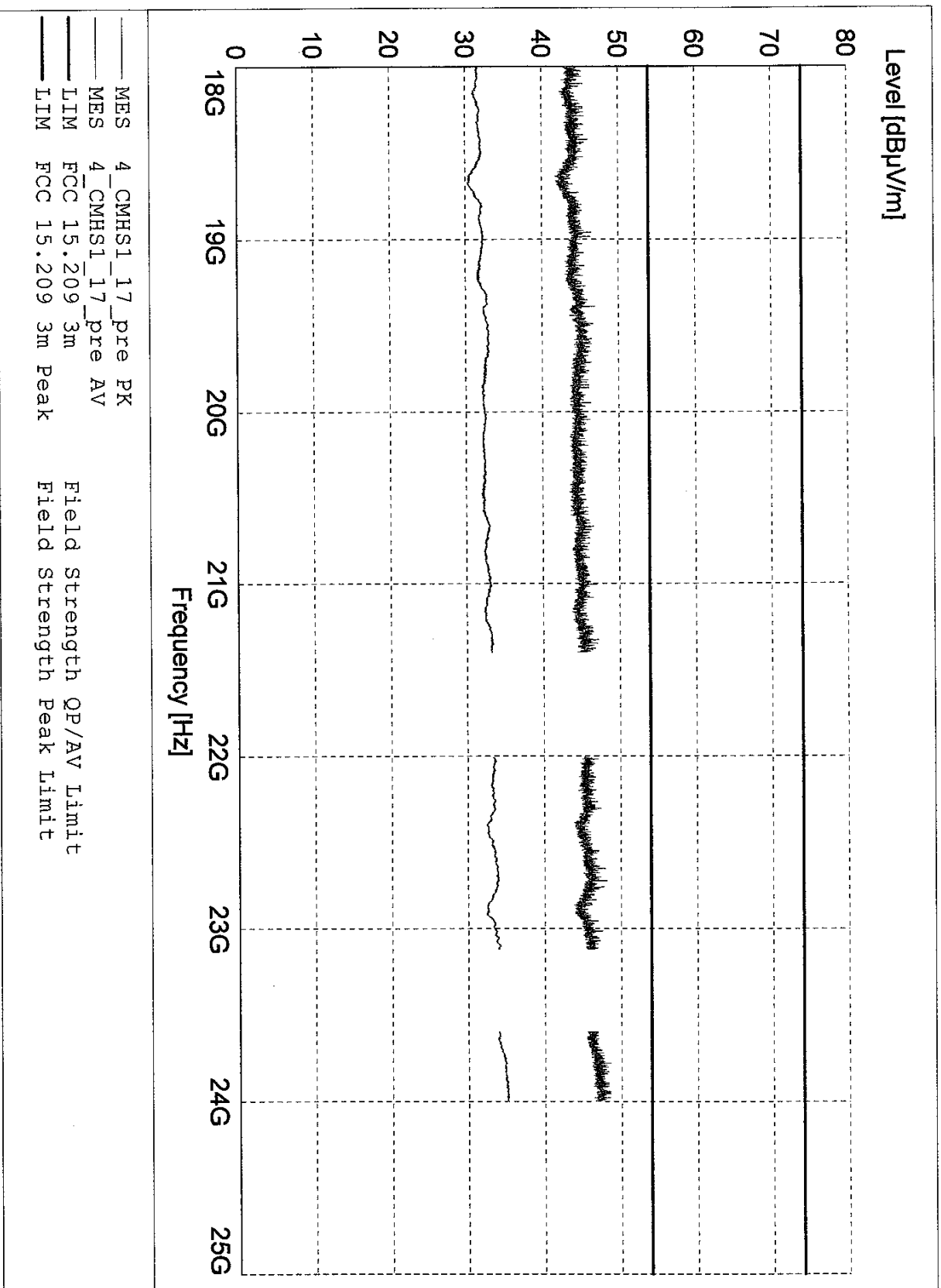


SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7 Layers Ratingen
 Operator: TAP
 Test Specification: FCC 15.247 (15.35p, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Short Description:		FCC Class A		Field Strength		Transducer
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	
Frequency	Frequency	Width				
30.0 MHz	1000.0 MHz	60.0 kHz	MaxPeak	100.0 ms	120 kHz	HL562
1.0 GHz	2.4 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
			Average			
2.5 GHz	7.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
			Average			
7.0 GHz	18.0 GHz	500.0 kHz	MaxPeak	100.0 ps	1 MHz	HF 906 / 001
			Average			
18.0 GHz	25.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	EMCO 3160-09
			Average			

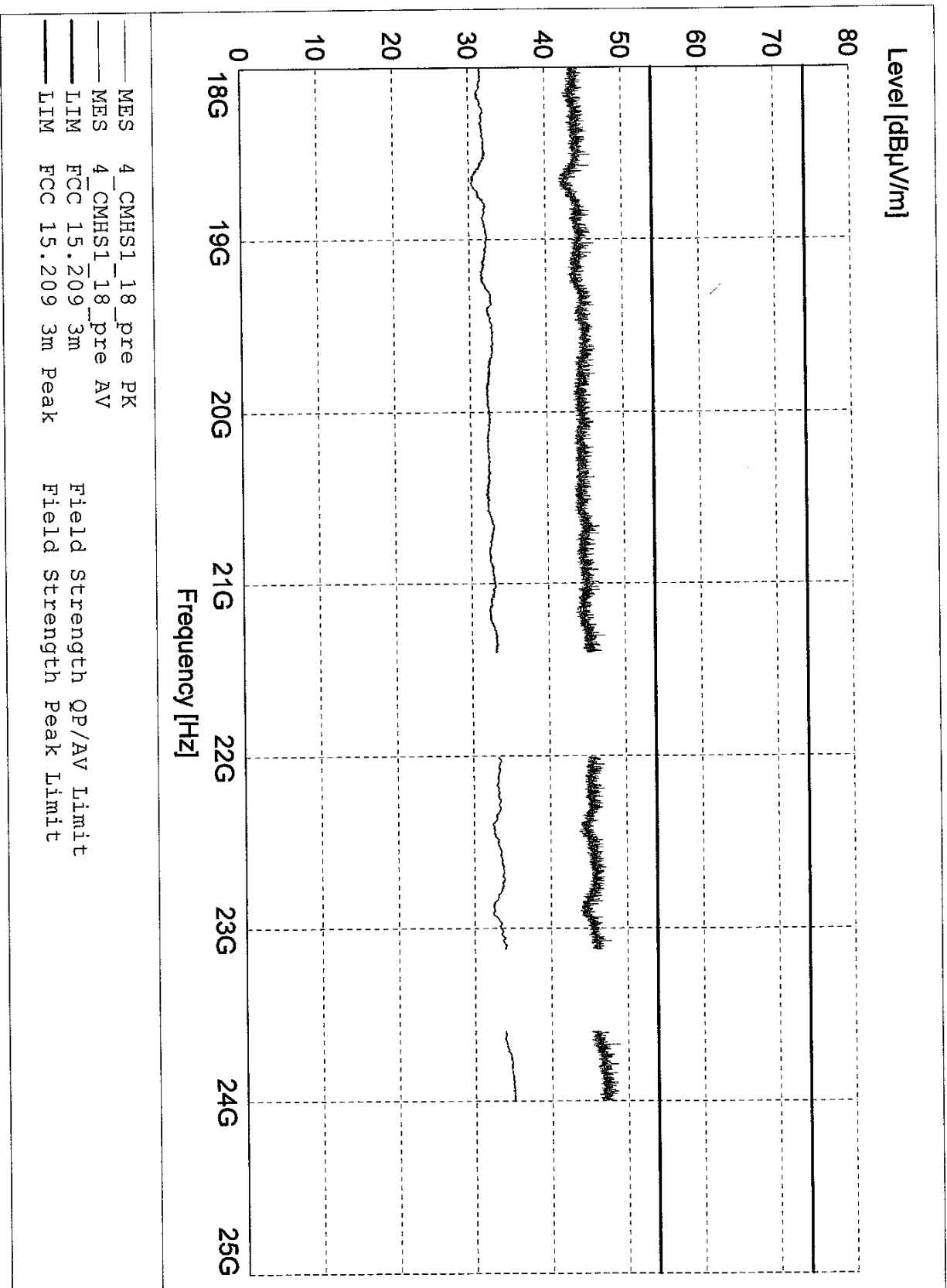


SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2441 MHz
 Test Site: 7 Layers Ratingen
 Operator: GAL
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Short Description:		FCC ClassA		Field Strength	Transducer	
Start	Stop	Step	Detector	Meas.	IF	
Frequency	Frequency	Width		Time	Bandw.	
30.0 MHz	1000.0 MHz	60.0 kHz	MaxPeak	100.0 ms	120 kHz	HL562
1.0 GHz	2.4 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
			Average			
2.5 GHz	7.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
			Average			
7.0 GHz	18.0 GHz	500.0 kHz	MaxPeak	100.0 ps	1 MHz	HF 906 / 001
			Average			
18.0 GHz	25.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	EMCO 3160-09
			Average			

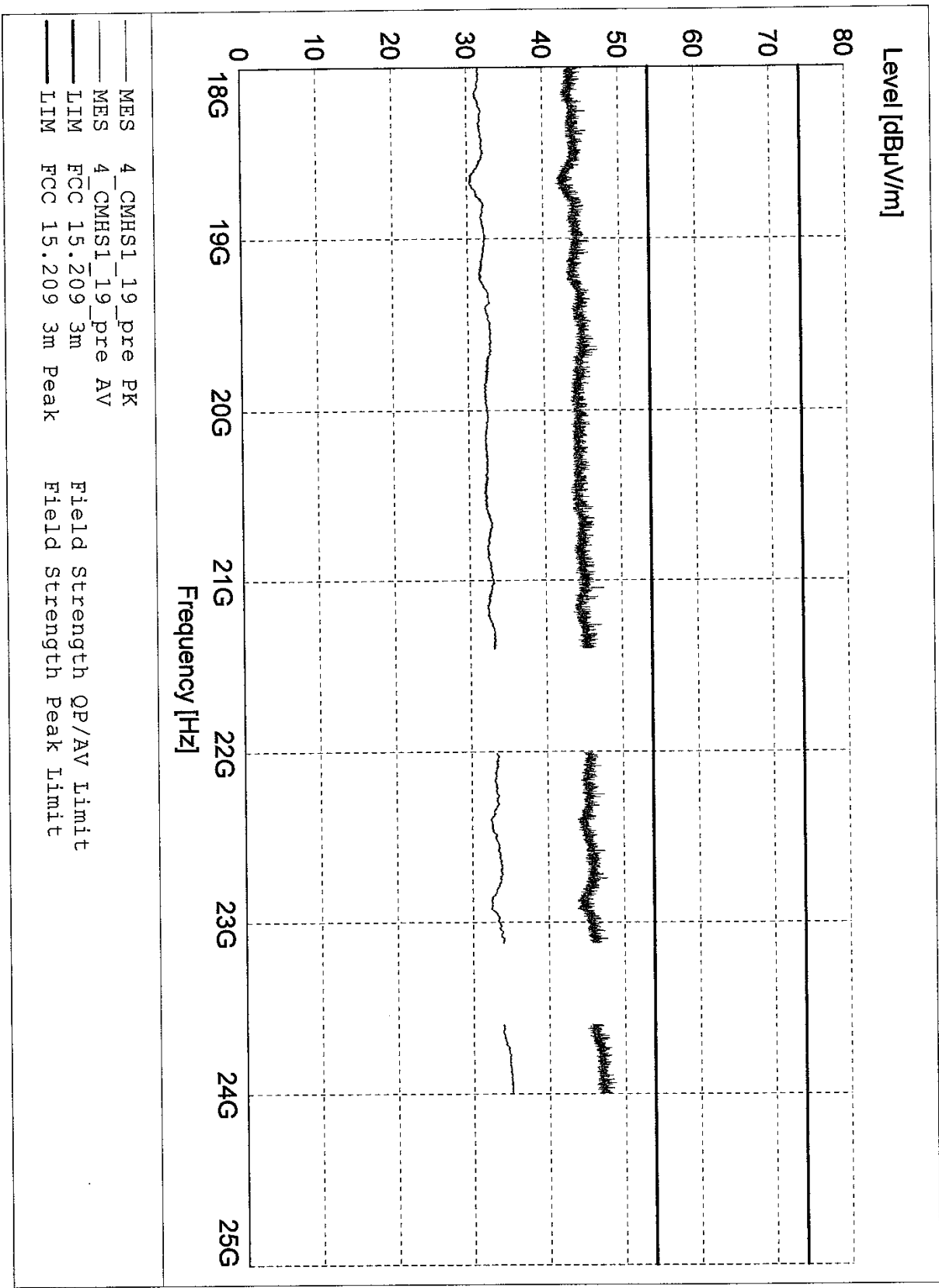


SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2480 MHz
 Test Site: 7 Layers Ratingen
 Operator: GAL
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Start	Stop	Step	FCC ClassA	Field Strength	Meas.	IF	Transducer
Frequency	Frequency	Width	Detector	Time	Bandw.		
30.0 MHz	1000.0 MHz	60.0 kHz	MaxPeak	100.0 ms	120 kHz	HL562	
1.0 GHz	2.4 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001	
			Average				
2.5 GHz	7.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001	
			Average				
7.0 GHz	18.0 GHz	500.0 kHz	MaxPeak	100.0 ps	1 MHz	HF 906 / 001	
			Average				
18.0 GHz	25.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	EMCO 3160-09	
			Average				



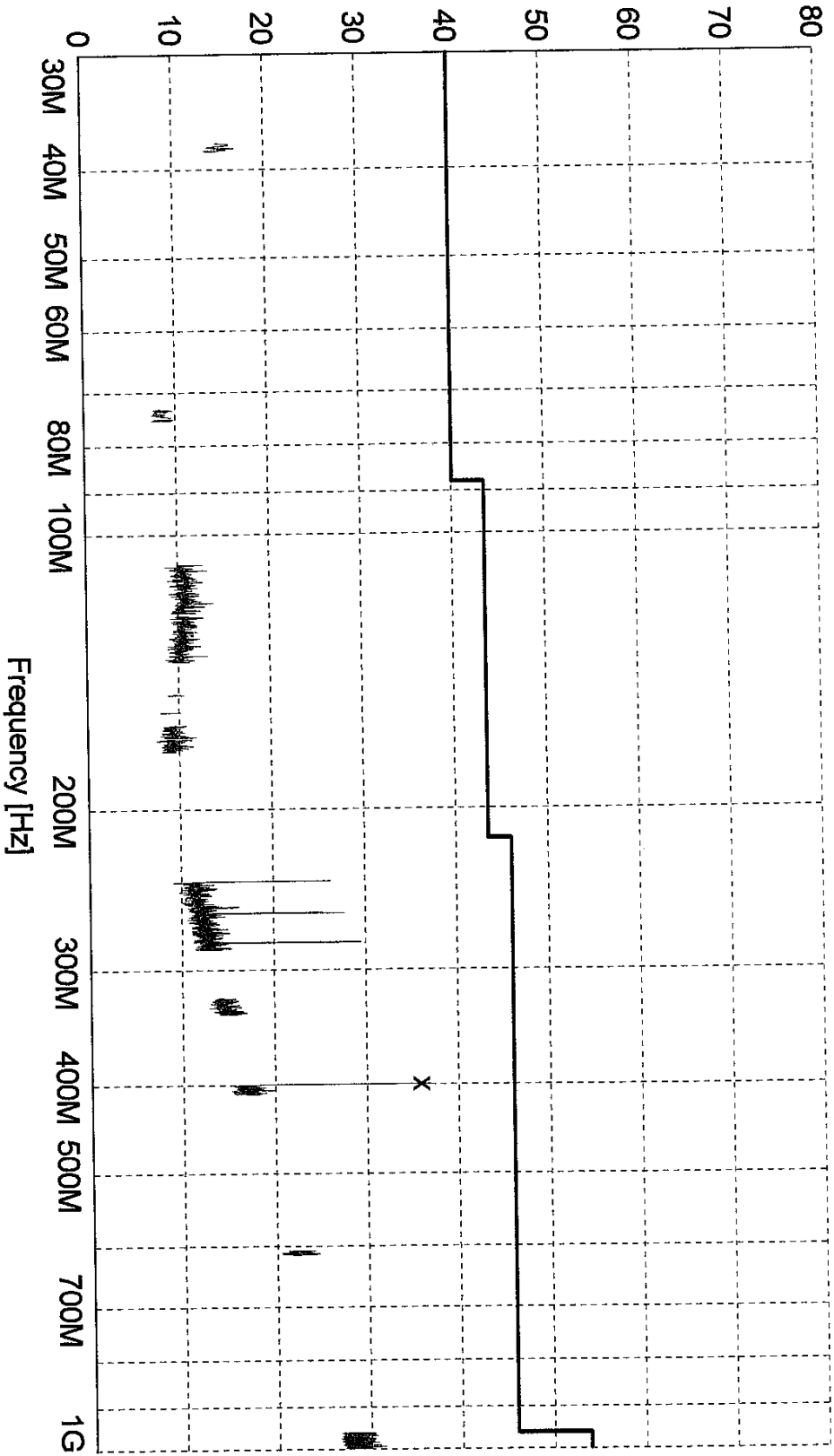
SPURIOUS EMISSION RADIATED

EUT: CMH51 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7 layers, Ratingen
 Operator: MAC
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal polarisation
 Start of Test: 14.08.02 / 08:08:23

SCAN TABLE: "FCC 15.209 Field <1G"

Short Description:		EN 55022		Field Strength		IF		Transducer	
Start	Stop	Step	Width	Detector	Meas. Time	Bandw.	IF	Transducer	
Frequency	Frequency								
37.5 MHz	38.3 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
73.0 MHz	74.6 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
74.8 MHz	75.2 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
108.0 MHz	121.9 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
123.0 MHz	138.0 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
149.9 MHz	150.1 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
156.5 MHz	156.5 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
156.7 MHz	156.9 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
162.0 MHz	167.2 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
167.7 MHz	173.2 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
240.0 MHz	285.0 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
322.0 MHz	335.4 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
399.9 MHz	410.0 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
608.0 MHz	614.0 MHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		
960.0 MHz	1.0 GHz		60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562		

Level [dBμV/m]



x x : MES 4 CMHS1_20_fin QP
MES 4 CMHS1_20_pre PK
LIM FCC 15.209 3m

Field Strength QP/AV Limit

MEASUREMENT RESULT: "4_CMHS1_20_fin_QP"
14.08.02 08:43

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
399.960000	36.10	16.4	46.0	9.9	100.0	-177.00	VERTICAL

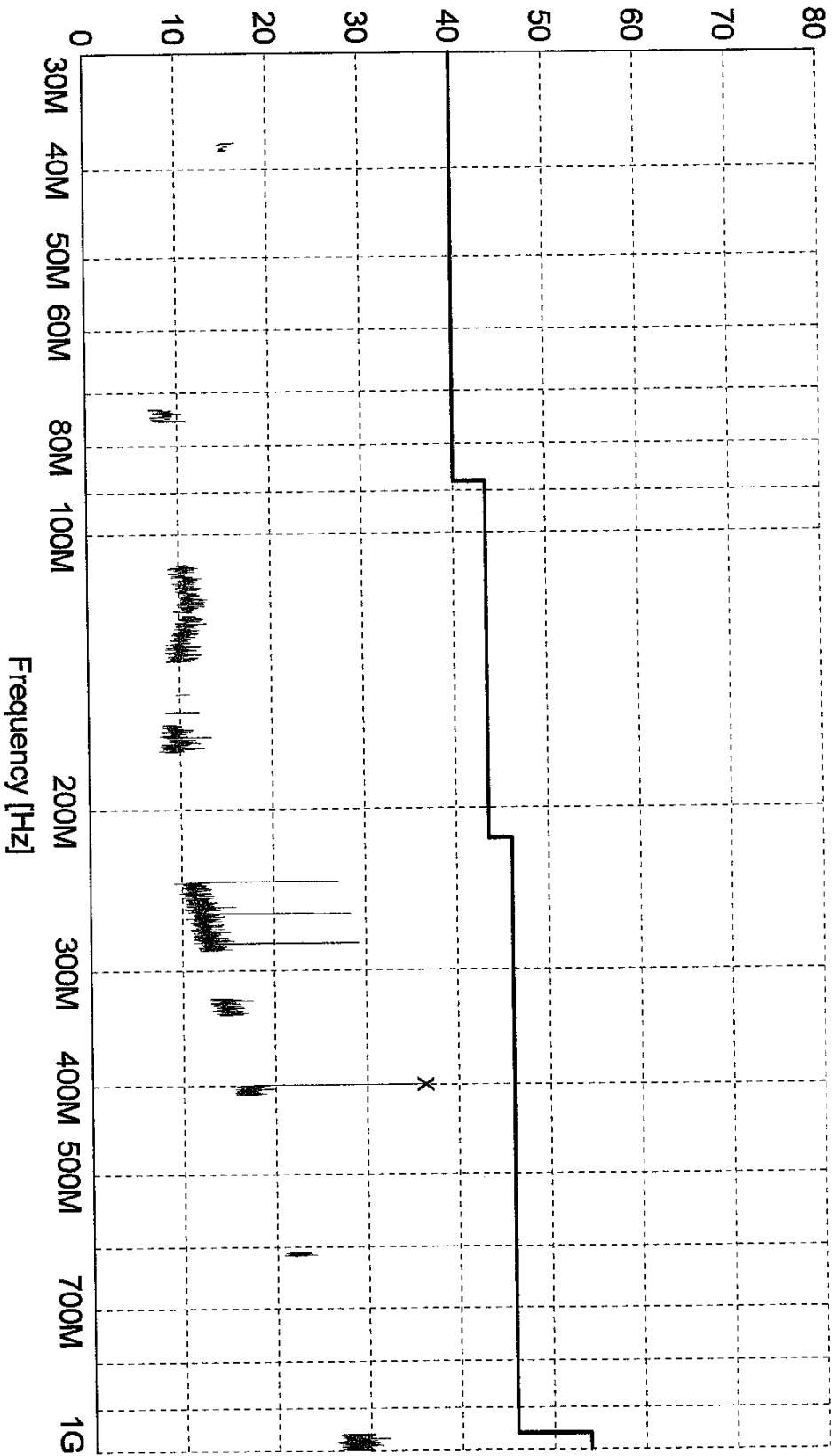
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 13.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2441 MHz
Test Site: 7 layers, Ratingen
Operator: MAC
Test Specification: FCC 15.247 (15.35p, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 14.08.02 / 08:47:24

SCAN TABLE: "FCC 15.209 Field <1G"

Short Description:		EN 55022		Field Strength		IF		Transducer	
Start	Stop	Frequency	Step	Detector	Meas. Time	Bandw.			
Frequency	Frequency	Width							
37.5 MHz	38.3 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
73.0 MHz	74.6 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
74.8 MHz	75.2 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
108.0 MHz	121.9 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
123.0 MHz	138.0 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
149.9 MHz	150.1 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
156.5 MHz	156.5 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
156.7 MHz	156.9 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
162.0 MHz	167.2 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
167.7 MHz	173.2 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
240.0 MHz	285.0 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
322.0 MHz	335.4 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
399.9 MHz	410.0 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
608.0 MHz	614.0 MHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		
960.0 MHz	1.0 GHz	60.0 kHz		MaxPeak	100.0 ps	120 kHz	HL562		

Level [dBμV/m]



x x : MES 4 CMHS1_21 fin QP
MES 4 CMHS1_21_pre PK
LIM FCC 15.209 3m

Field Strength QP/AV Limit

MEASUREMENT RESULT: "4_CMHS1_21_fin_QP"

14.08.02 09:27

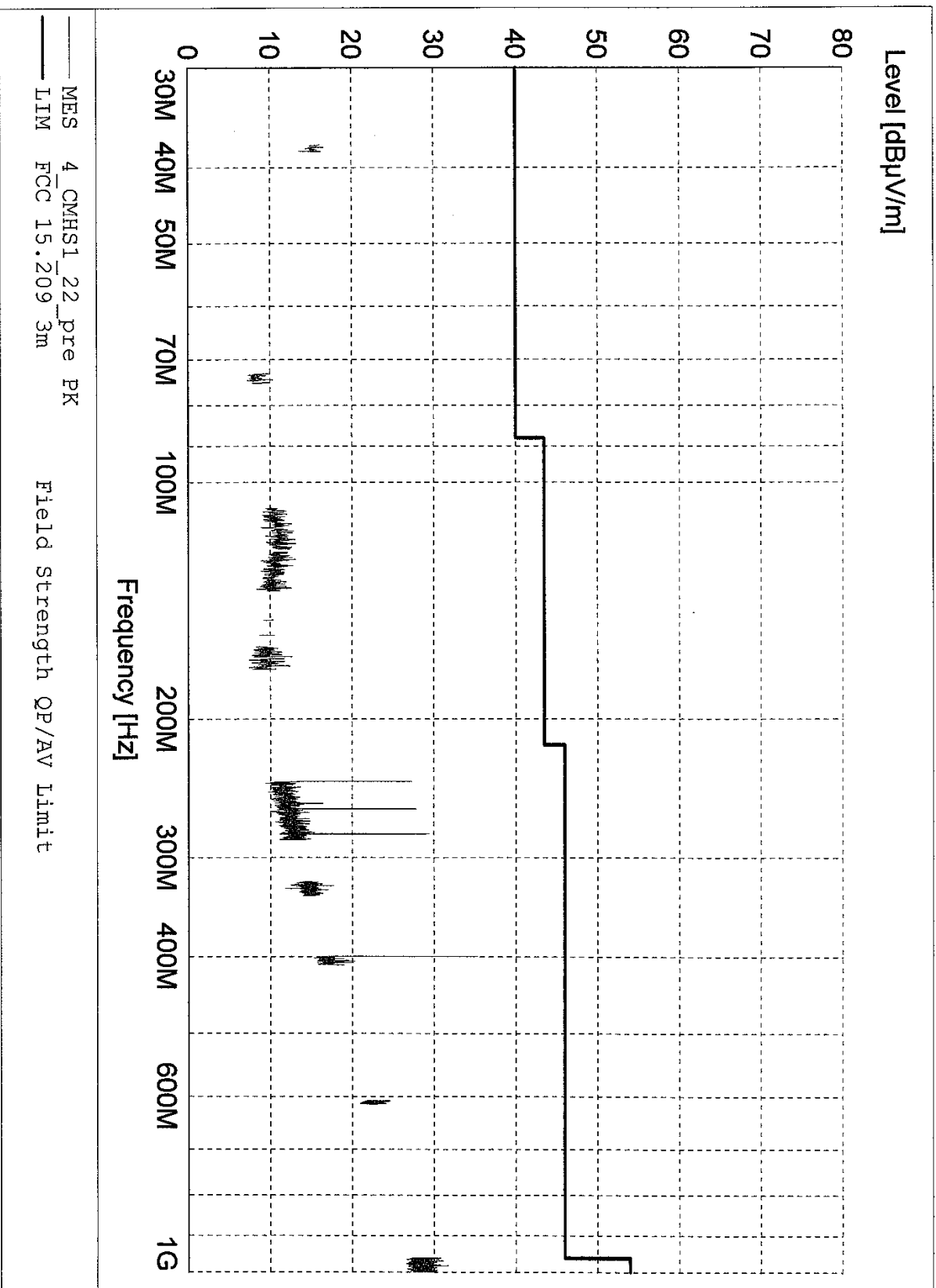
Frequency MHz	Level dBV/m	Transd dB	Limit dBV/m	Margin dB	Height cm	Azimuth deg	Polarisation
400.020000	36.60	16.4	46.0	9.4	100.0	179.00	VERTICAL

SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 13.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7 layers, Ratingen
Operator: MAC
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 14.08.02 / 09:30:40

SCAN TABLE: "FCC 15.209 Field <1G"

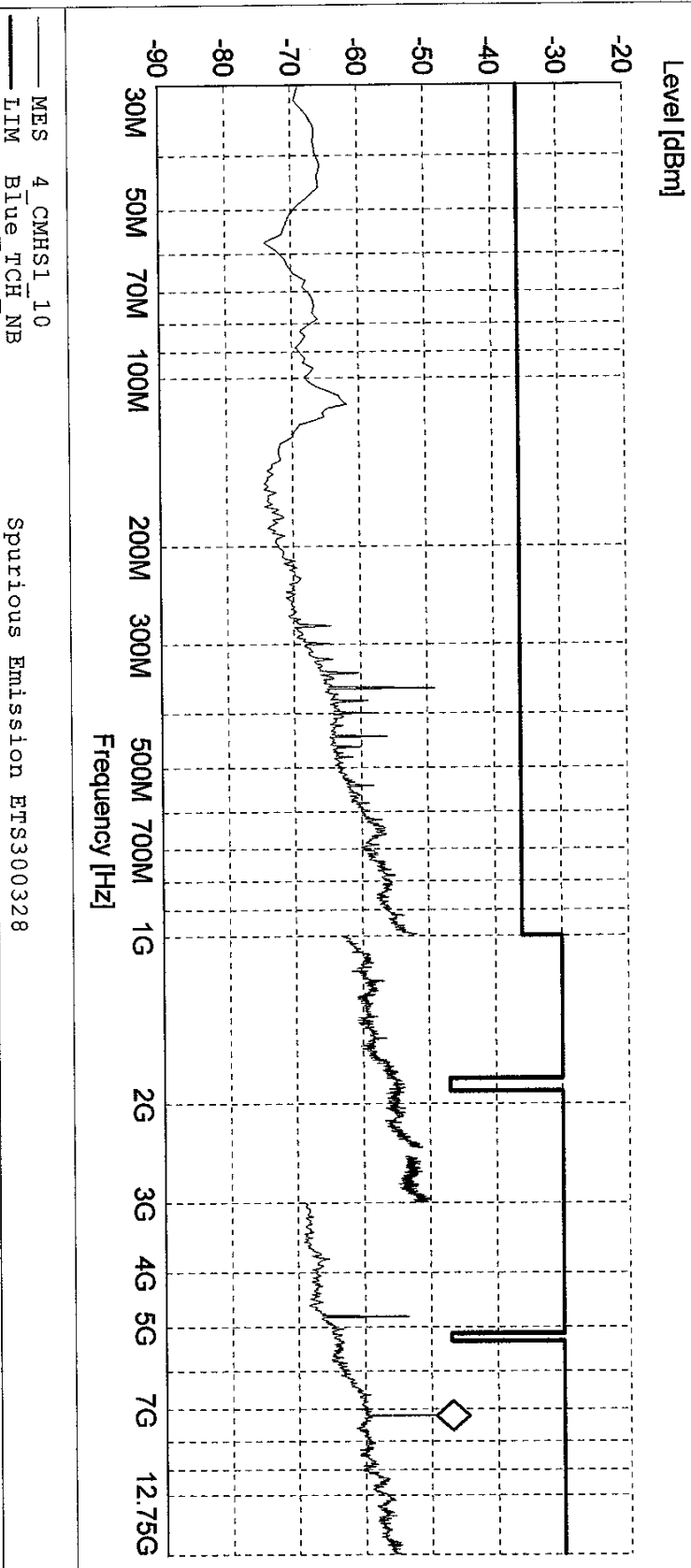
Short Description:			EN 55022		Field Strength		IF		Transducer	
Start	Stop	Frequency	Step	Width	Detector	Time	Meas.	Bandw.		
Frequency										
37.5 MHz	38.3 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
73.0 MHz	74.6 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
74.8 MHz	75.2 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
108.0 MHz	121.9 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
123.0 MHz	138.0 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
149.9 MHz	150.1 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
156.5 MHz	156.5 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
156.7 MHz	156.9 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
162.0 MHz	167.2 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
167.7 MHz	173.2 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
240.0 MHz	285.0 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
322.0 MHz	335.4 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
399.9 MHz	410.0 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
608.0 MHz	614.0 MHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	
960.0 MHz	1.0 GHz	60.0	kHz	MaxPeak	100.0	µs	120	kHz	HL562	



SPURIOUS EMISSIONS RADIATED

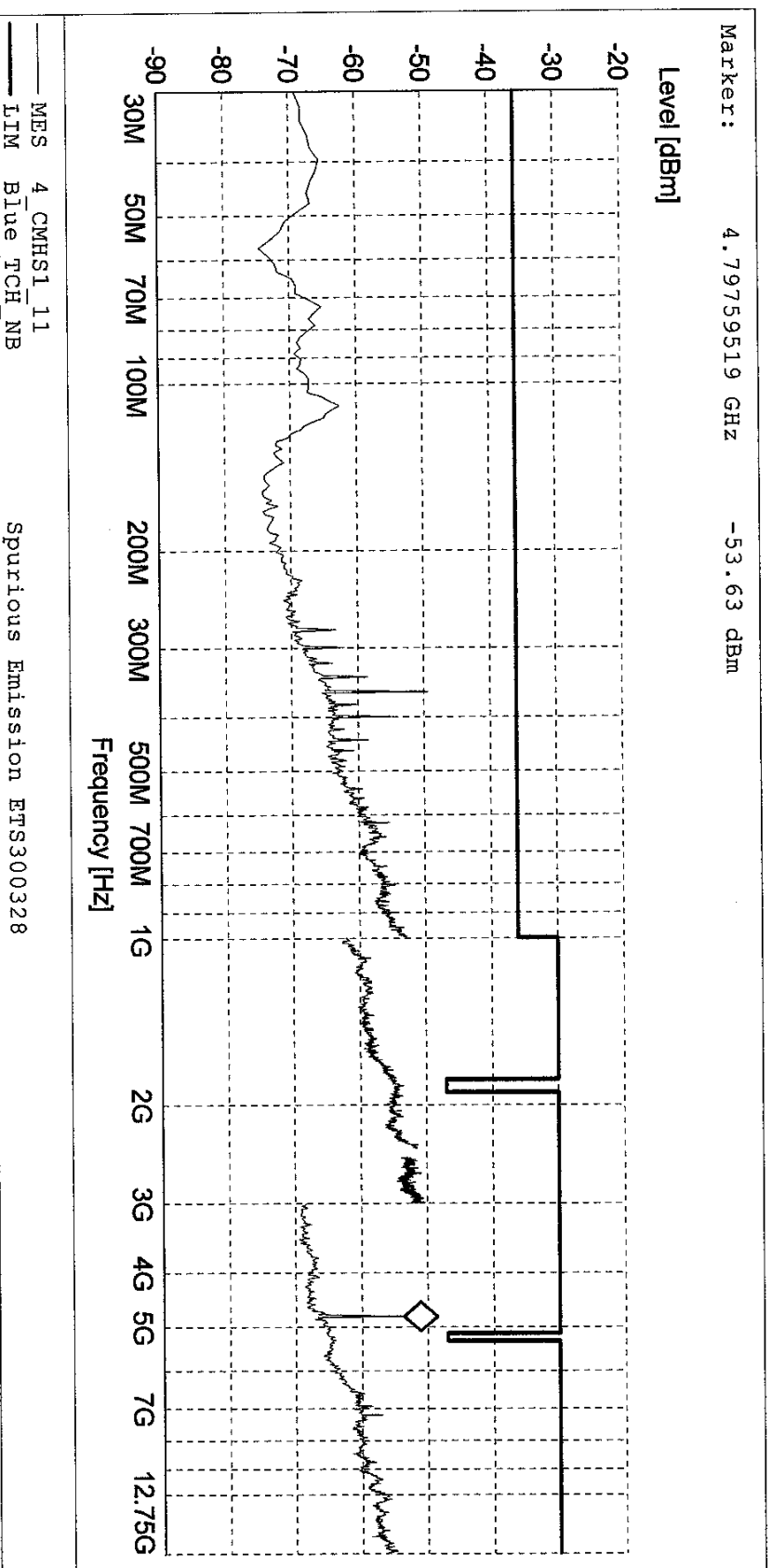
EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2402 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position

Marker: 7.200901804 GHz -49.37 dBm



SPURIOUS EMISSIONS RADIATED

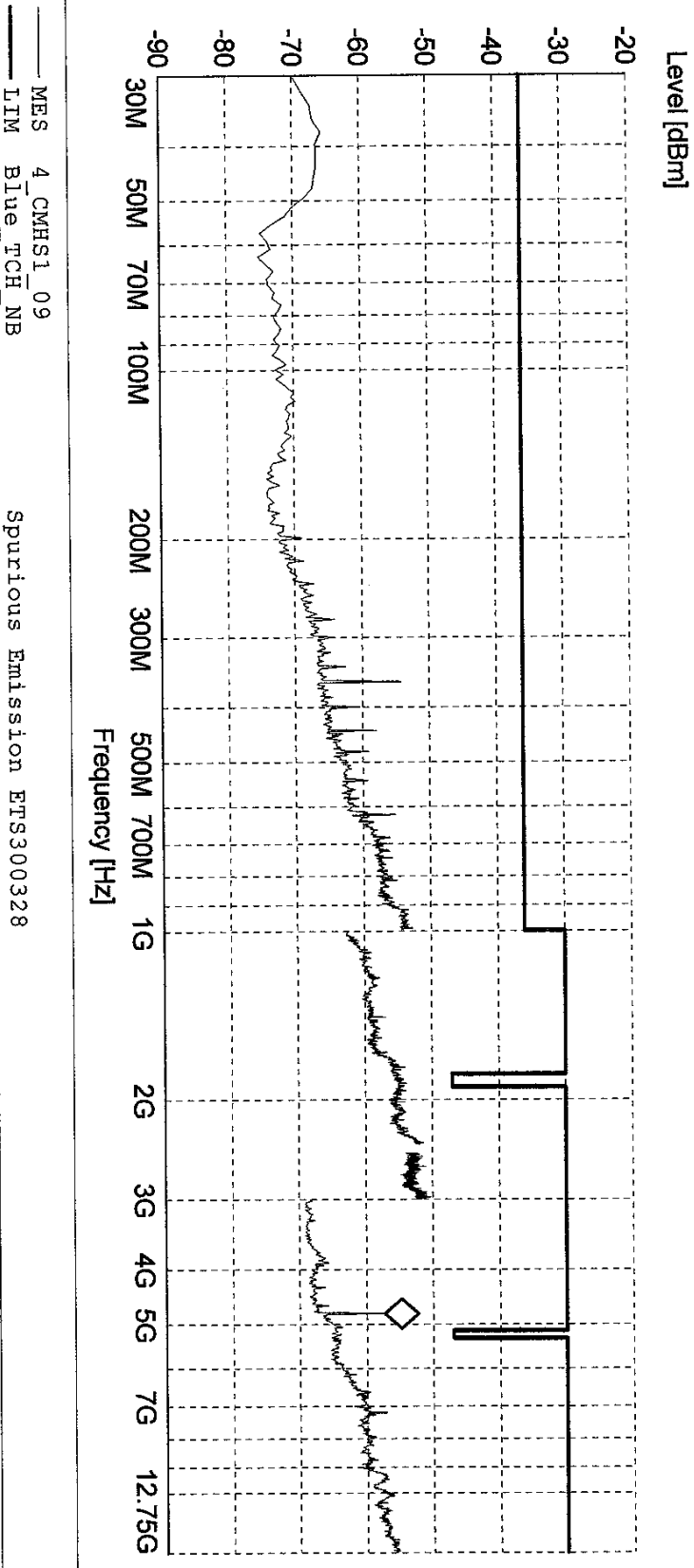
EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Piehtek
Operating Condition: TX on 2402 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Horizontal EUT position



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: plextek
Operating Condition: TX on 2402 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

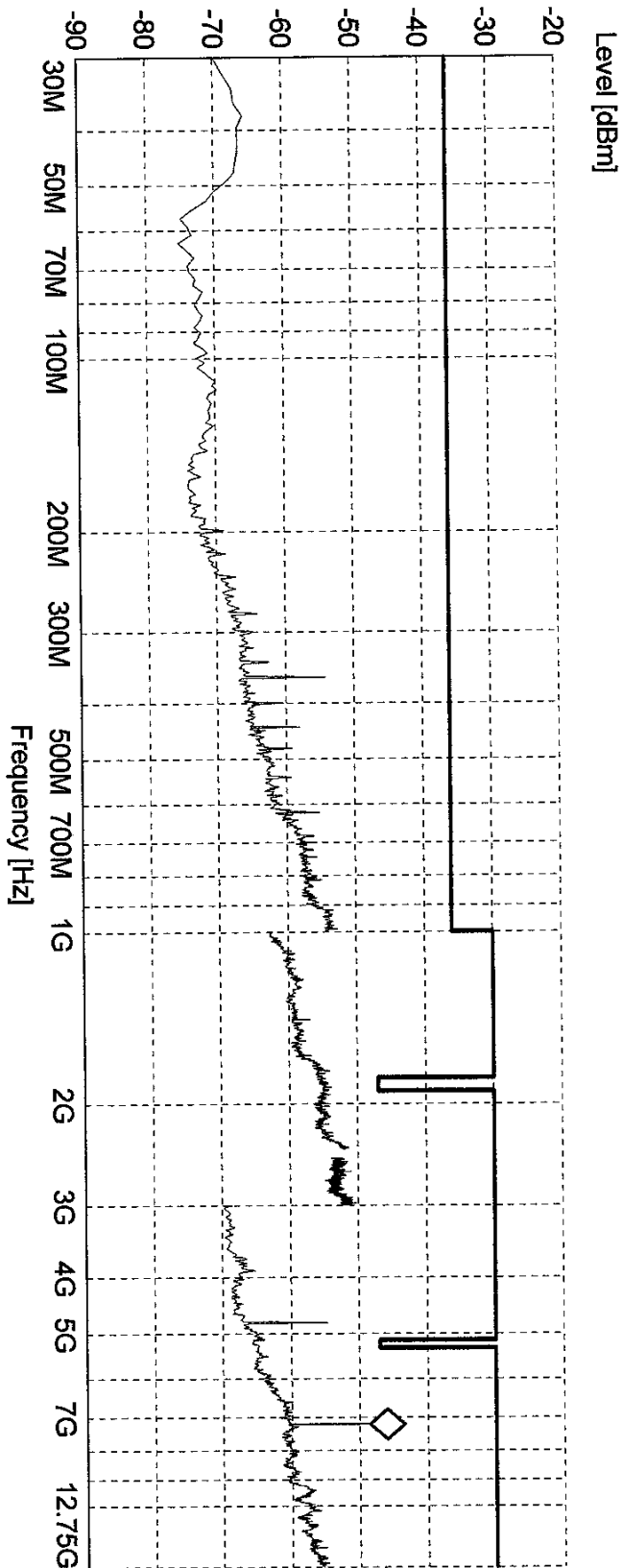
Marker: 4.79759519 GHz -57.28 dBm



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7Layers, Ratingen
 Operator: TAP
 Test Specification: ETS 300328
 Comment: Horizontal antenna polarisation
 Horizontal EUT position

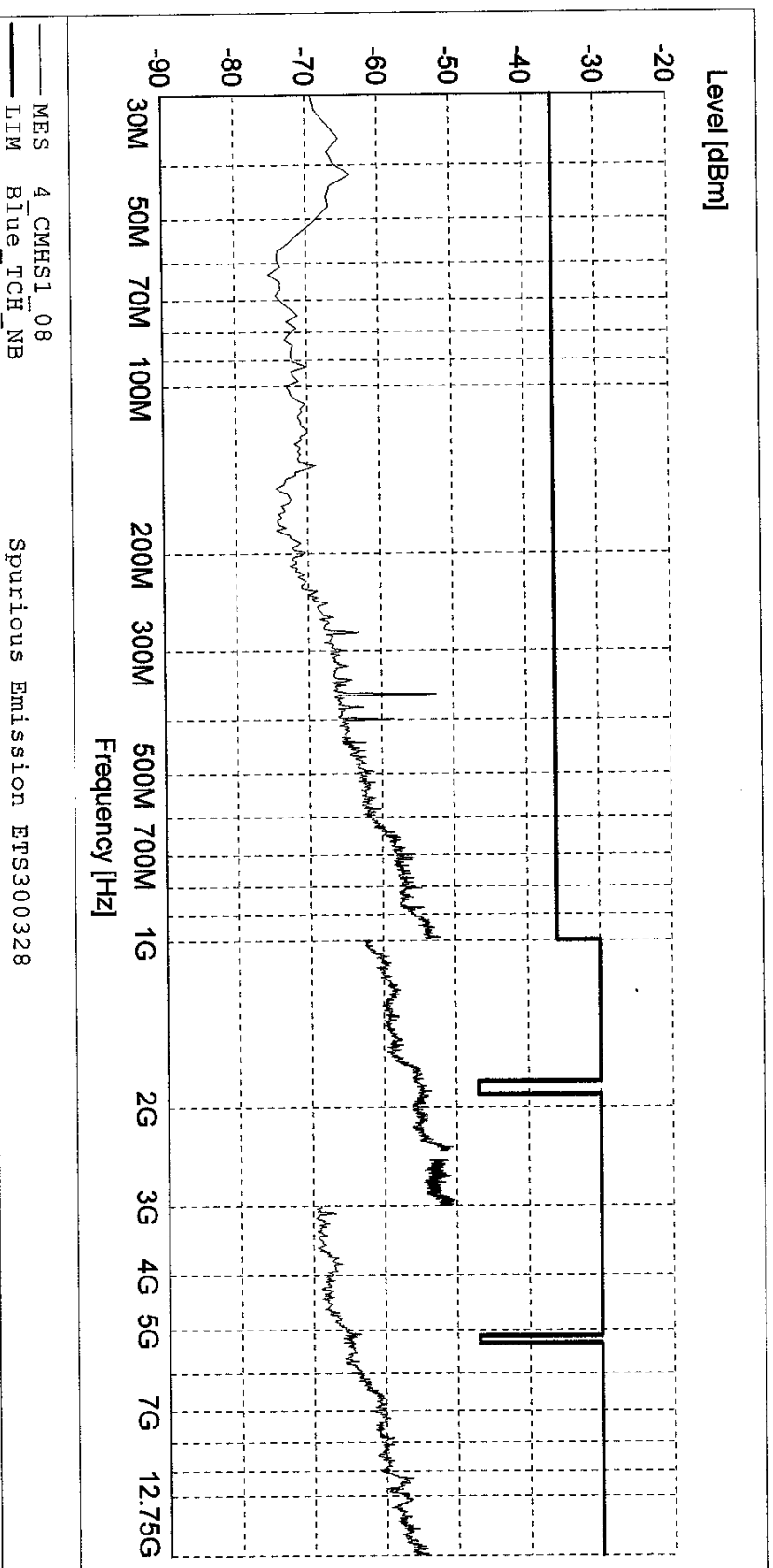
Marker: 7.200901804 GHz -48.52 dBm



MES 4_CMHS1_12
 LIM Blue_TCH_NB
 Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

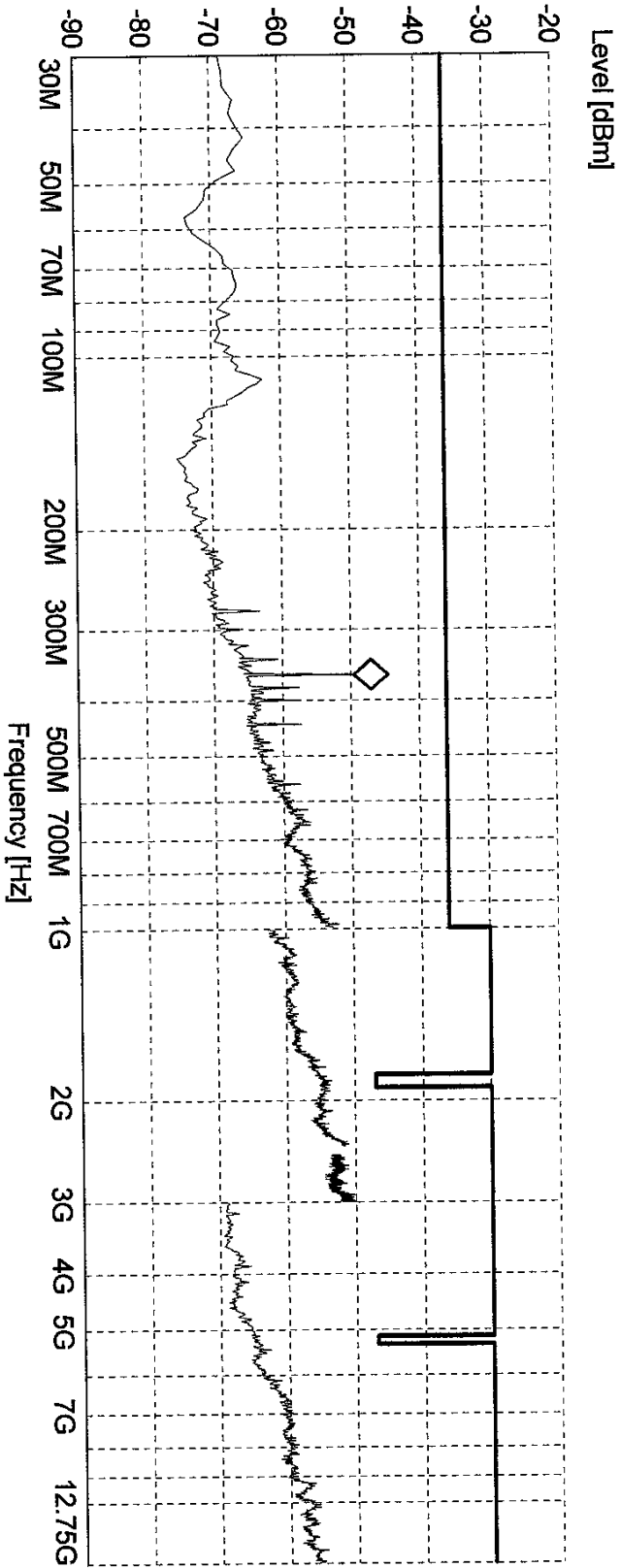
EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Horizontal EUT position



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Horizontal EUT position

Marker: 360.460922 MHz -49.57 dBm



MES 4 CMHS1_07
LIM Blue_TCH_NB

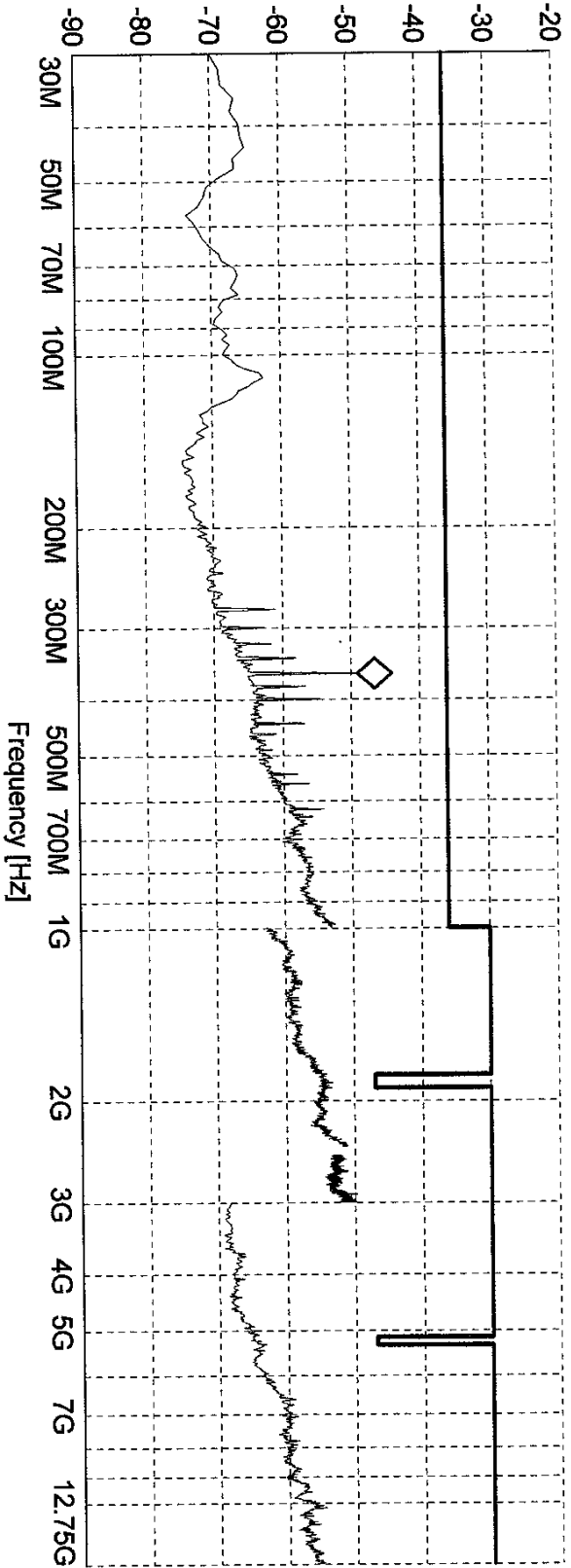
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position

Marker: 360.460922 MHz -49.08 dBm

Level [dBm]



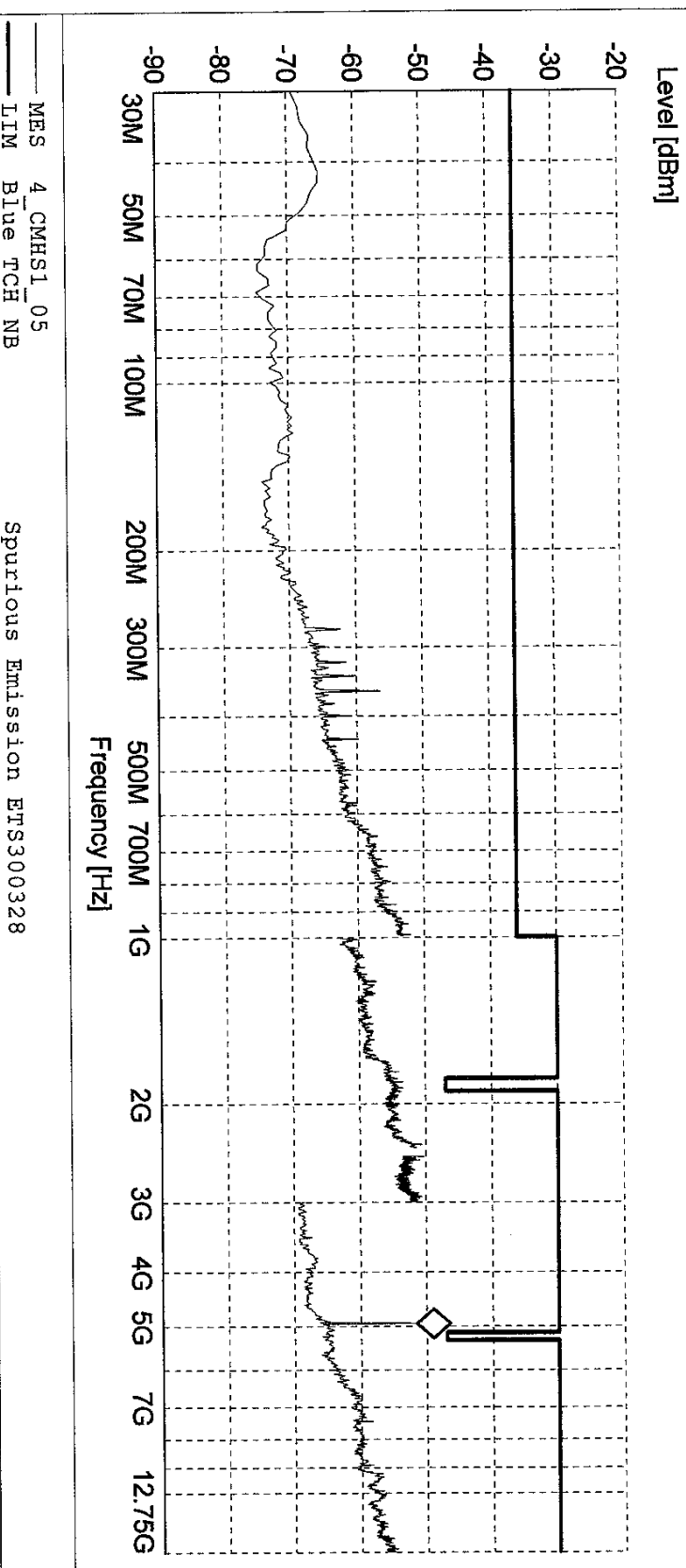
MES 4_CMHS1_06
LIM Blue_TCH_NB

Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

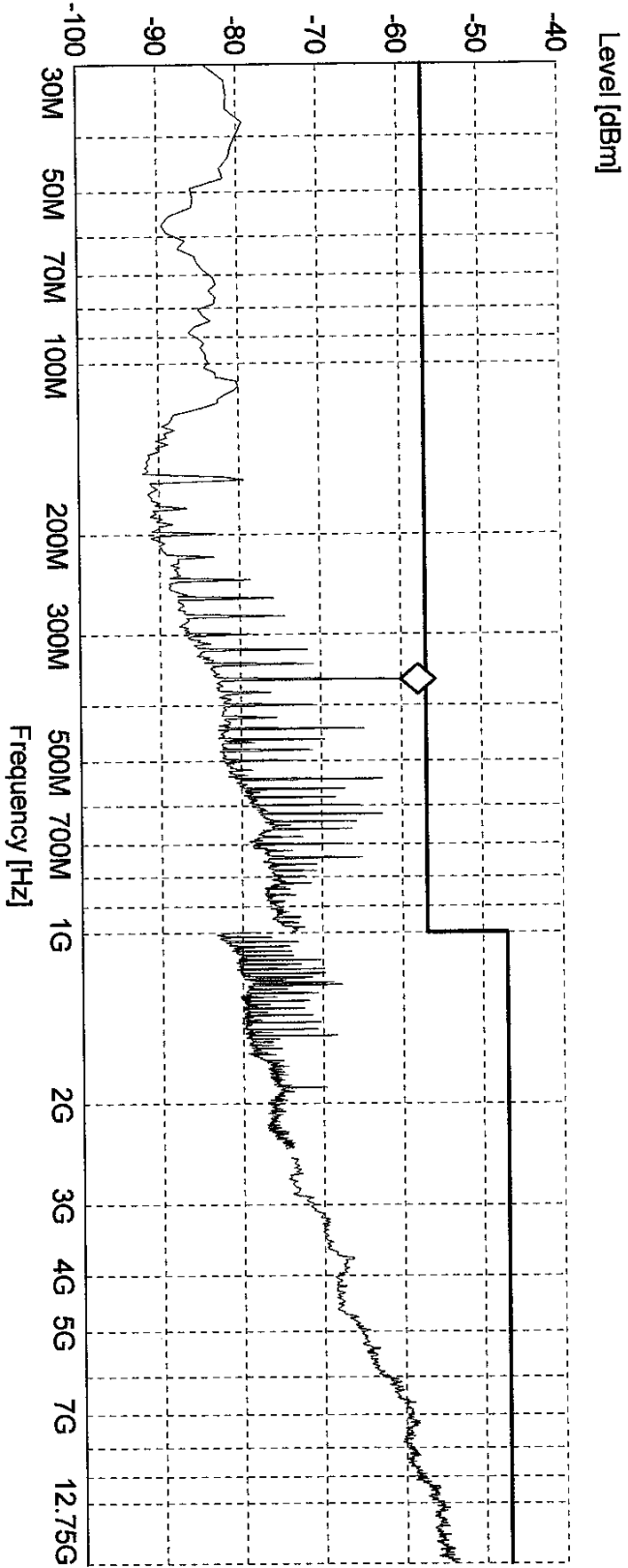
Marker: 4.953907816 GHz -51.53 dBm



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position

Marker: 360.460922 MHz -60.07 dBm

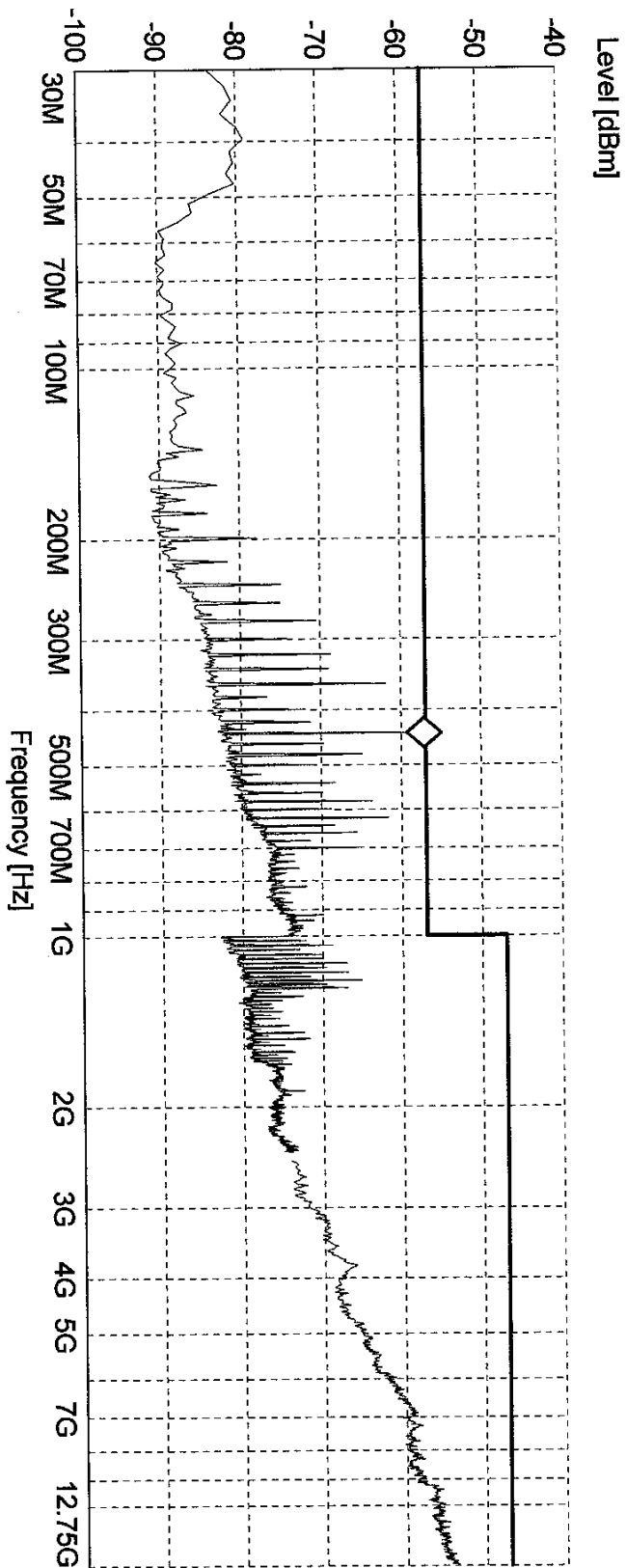


MES 4 CMHS1_16
LIM Blue_IDLE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

Marker: 440.160321 MHz -59.31 dBm

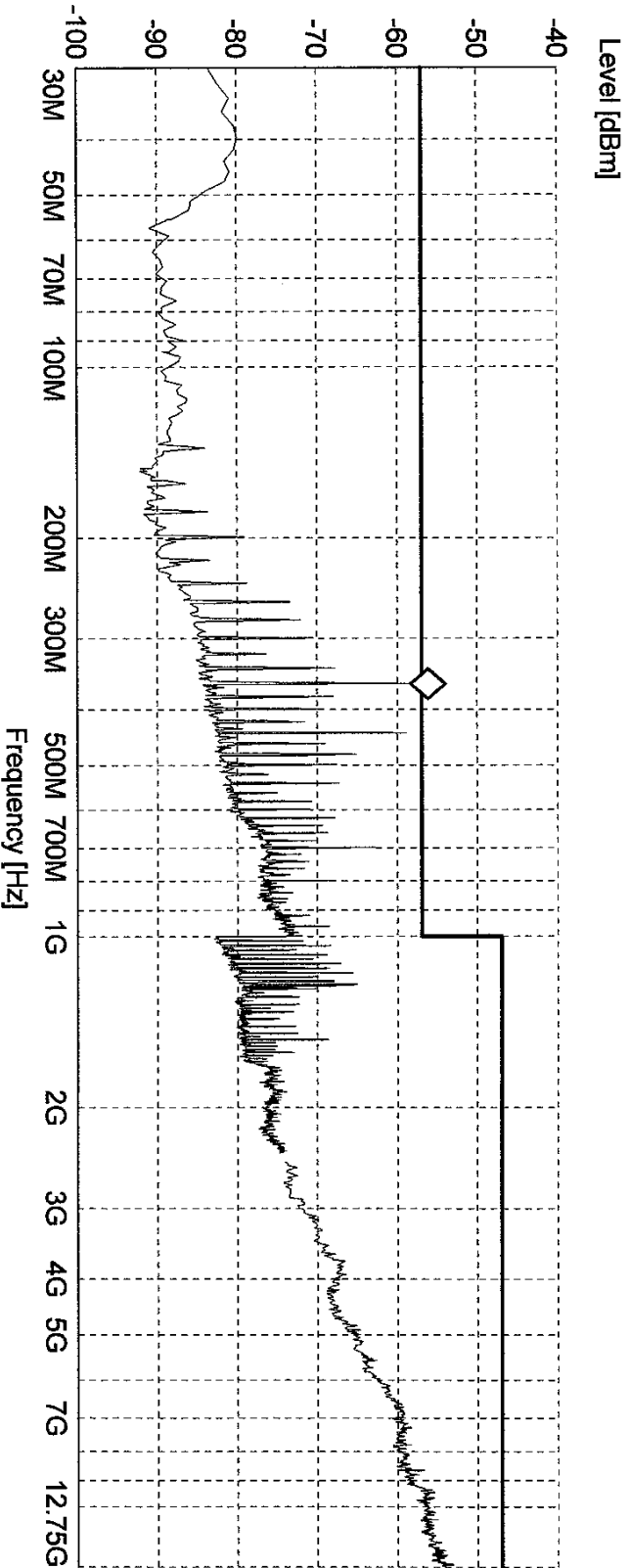


MES 4 CMHS1_15
LIM Blue_IDLE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: MAC
Test Specification: ETS 300 328
Comment: Horizontal antenna polarisation
Horizontal EUT position

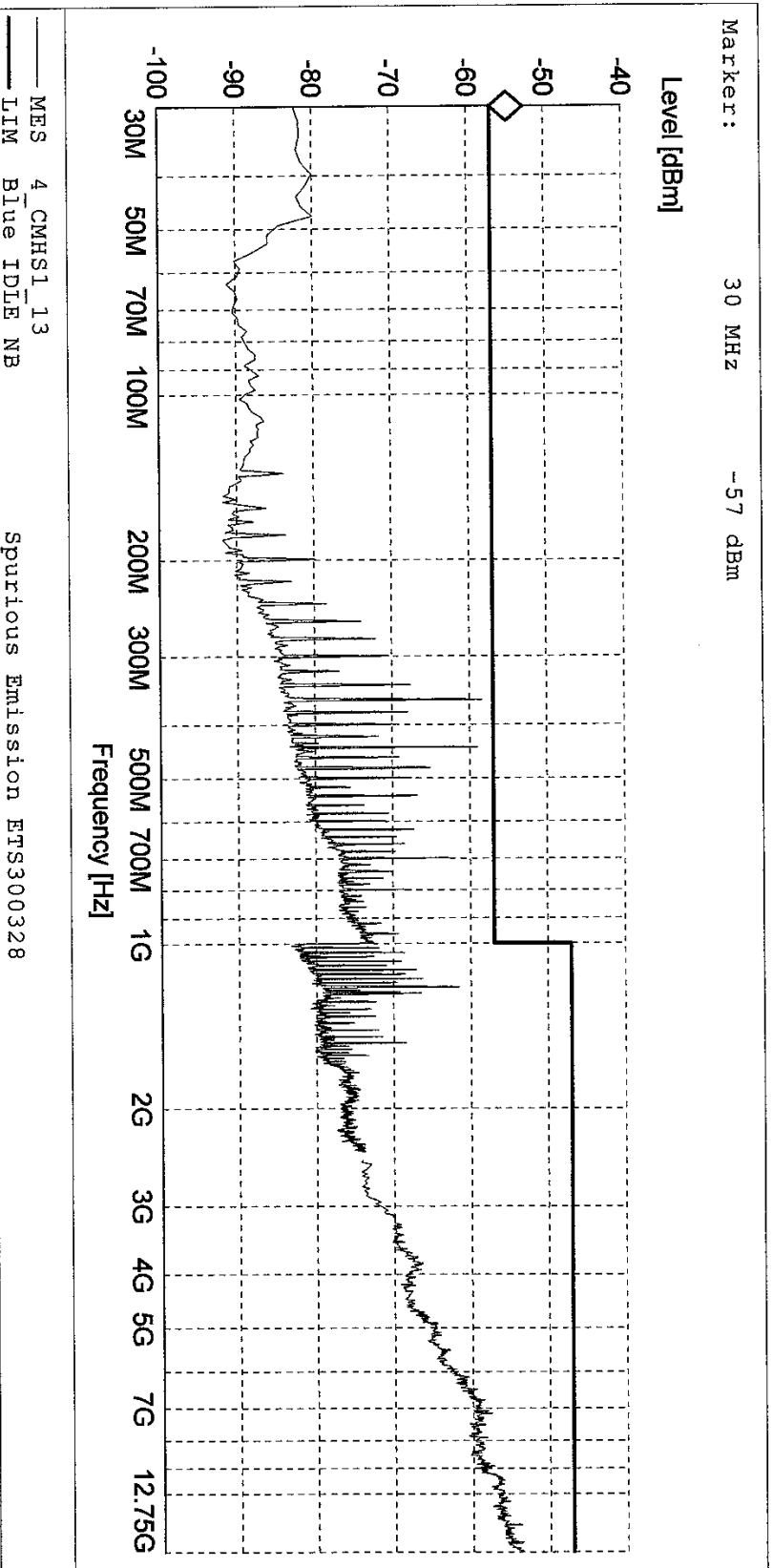
Marker: 360.460922 MHz -58.33 dBm



MES 4_CMHS1_14
LIM Blue_IDLE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Horizontal EUT position



=====

ROMP & SchematZ Certific. Bluetooth Test System T9860 SW Version: 01.24

Program Name: CC_MISDensitvity Program Revision: 1.11

Receiver Sensitivity Testcase

=====

Test Case started: 2002-08-17, 21:24:43 (T98600)

Report File: ./dat/03100a01/03100a01_nm.rpt

But File: 03100a01

Operator's account name: t9860

Global Parameter Settings:

Wait On Compare	No
Wait On Error	No
Wait On FAIL	No
Abort On FAIL	No
Skip Manual Intervention	No
Plot Disabled	No
Stop after Program Run	No
Info Enabled	No
Short Mode	No
Force Mode	No
Part	1

Starting program bc_AllSensitivity

=====

TC Sensitivity - Single Slot Packets RFC Check

=====

Setting TC Sensitivity - Single Slot Packets (RCV/CV/CI)

=====

Test Specification RF: 0.91

=====

BUF connected for Measurement and Signaling at: SSCU-PORT MEASUREMENT BUF COMP

=====

Next measurement will be running with the following BUF parameters:

Manufacturer:

Model:

Serial No:

Comment:

Cliaison
Headset
P1031
Status: RTRCD 03
SW Version: 212 NC02_hwl_v1.1k.1.56
Configuration: ad3
S/N: P1031

Operator: Not

Setup mode:

Test Mode Handle:

Country:

Power Off/Testing:

Host Connection Request:

BUF Address:

Host Address:

Access Code from BUF:

Access Code from SU:

Connection Poll Period:

Connection Page No:

Power Control:

Power Control:

Add. Transmission (Receive):

Add. Transmission (Transmit):

NR measurement:

Voltage Value 1:

Voltage Value 2:

Temperature:

Voltage:

Temperature:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Power Mode:

Measurement: Conducted

BUF Test Mode: Loopback

BI Signal Packet Type: B1

BI Signal Packet: V986 9

BI Signaling Level: -70.000 dbm

BI Signaling Level: 1600000

BI Signaling Level: 0.100

Operator Intervention start at 2002-08-17, 21:24:52

Please prepare the BUF for Test Mode Activation

Intervention Type: Please prepare the BUF for Test Mode Activation

Operator Intervention end at 2002-08-17, 21:24:53

TX-FREQ RX-FREQ Bit Error Rate

[MHz] [MHz] [%] LIMIT VERNOICT

2480.0 2402.0 0.000 <= 0.100 PASS

All selected Sensitivity - Single Slot Packets tests are completed

Duration 00:01:17

Final Test Case verdict: PASS

Report file closed at 2002-08-17, 21:26:20

=====

Module & Scheme: Celltec, Bluetooth Test System TS8960 SW Version: v1.24
Program name: tc_AllSensitivity program revision: 1.11
Receiver Sensitivity Testbed

Test Case started: 2002-08-17, 21:42:08 (TS8960R)
Report file: ..\data\0100a01\0100a01_rpt.rpt
Operator's account name: ts8960

Global Parameter Settings:
Wait on Compare : No
Wait on OUTSIDE : No
Wait on FAIL : No
Abort on FAIL : No
Skip Manual Interventions : No
Remove PDC after Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : No
Test : 1

Starting program TC_AllSensitivity
TC Sensitivity - Single Slot Packets NPC Check

Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SECU-PORT 'MEASUREMENT EUT COMD'

Next measurement will be running with the following EUT parameters:
Manufacturer: Clarion
Model: Headset
Serial No: F7031
HW Status: STB/CD 01
SW Status: 271022_hce_lv1_1x_3.56
Configuration: d01
S/N: F1031
Operator: h0f

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Host Connection Request: No
EUT Address: 0050C315A02F hex
Tester Address: 008037122091 hex
Active Member Address: 00800607 hex
Access Code from EUT: 7F0315A02F hex
Access Code from SUI: A0F1C69AE2411209 hex
Connection Poll Period: 4 Time Slots
Connection Page No: 9000
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
BER measurement: Spectrum
Voltage measurement: Volt
Voltage Value 1: 5.500
Voltage Value 2: 21.000 Deg C
Temperature: 21.000 Deg C

Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle
Power Mode: Not controlled

Measurement: Conducted
EUT Test Mode: Loopback
Signal Packet Type: PMS 9
Signal Pattern: Yes
Whitening: Yes
M Signalling Level: -70.000 dbm
BER Number of Bits: 1000000
BER Limit: 0.100

Operator intervention start at 2002-08-17, 21:42:17
Please prepare the EUT for Test Mode Activation
Intervention type: Please prepare the EUT for Test Mode Activation
Intervention start: 2002-08-17, 21:42:17
TX-FREQ RX-FREQ Bit Error Rate LIMIT VERDICT
[MHz] [MHz] [s]
2402.0 2480.0 0.000 <= 0.100 PASS

All selected Sensitivity - Single Slot Packets tests are completed
Duration 00:01:36
Final Test Case verdict: PASS
Report file closed at 2002-08-17, 21:43:44

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```

Receiver Sensitivity Testcard

Test Case started: 2002-08-17, 21:53:01 (TS0960M)
Report File: ../dat/031000a01/03100a01.rmm.rpt
Put file: 03100a01

Operator's account name: t58960

Global Parameter Settings:

Wait On COMPASS	No
Wait On OUTSIDE	No
Wait On FAIL	No
Abort On FAIL	No
Skip Manual Interventions	No
Plots Disabled	No
Remove plots after Program Run	No
Info Enabled	No
Short Mode	No
Force Mode	No
Part	1

Starting program to cAI Sensitivity

TC Sensitivity - Single Slot Packets HRC Clock

Test Specification RF: 0.31

```
=====
EUT Connected for Measurement and Signalling at: SSC0-Port "MEASUREMENT DDT COND
=====
Next measurement will be running with the following EUT parameters:
```

Manufacturer: Clatton
Model: Headset
Serial No: F1031
HW Status: EPICD 03
HW Version: 327 00004 001 101 11 00

S/N: P1031

Operator: Hof

Setup mode:	Final Testing
Part Mode: Hard	Extra: Dismantle

Country:	All
Pseudo Whifromina:	On

```
Host Connection Request: No
EVT Address: 0050C215A02F hex
```

```
Taster Address: 006037122091 hex
Active Member Address: 00000007 hex
```

Access Code from EUT:	AF0F1C69AE241120D5
Access Code from SU:	AF0F1C69AE241120D5

Connection Page TO:	9000	Time Slot
Connection Poll Period:	4	Time Slot

```

test parameters setting utility: 100 mhz
Power Control: Not supported

```

Add. Transmission (Transmit): 0.000 dB

TEST	DESCRIPTION	UNIT	VALUE
1	Voltage Value 1	Volt	5.500
2	Voltage Value 2	Volt	5.500

Temperature: 23.000 Deg C

Next measurement will be running with the following pa

Voltage: Middle
Temperature: Middle

Power Mode: Not Controlled

```

Measurement:
  B1 Signal Mode: Conducted
  B1 Signal Power: Loopback
  B1 Signal Packet Type: PRBS 9
  Whichever: 1000000
  No Tones: Yes 600
  B1 Number of Bits: 1000000
  BER Limit: 0.100

Operator Intervention start at 2002-08-17 21:53:10
Please prepare the EIR for Tone Mode Activation
Intervention Type: Please prepare the EIR for Tone Mode Activation
Operator Intervention end at 2002-08-17 21:55:11
TX-FREQ RX-FREQ Bit Error Rate
[MHz] [MHz] [dBm] [dBm] [dBm]
2402.0 2441.0 0.000 <= 0.100 PRBS
All selected GsmSensitivity - Single Slot Packets tests are completed

```


Receiver Sensitivity Testcase
Program name: TC>AllSensitivity
Program revision: 1.11

Test Case started: 2002-08-18 01:00:47 (758960N)
Report File: ./dat/03100a01/03100a01_fm.rtp
Operator's account name: t89860

Global Parameter Settings:
Wait On Compare : No
Wait On Outside : No
Wait On Fail : No
Skip Manual Interventions : No
Pilot Disabled : No
Remove Pilot after Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : 1

Starting program tc.AllSensitivity
TC Sensitivity - Single Slot Packets RFC Check

Starting TC Sensitivity - Single Slot Packets (RCV/CA/01/C)
Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT CONO'
Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: Headset
Serial No: P1031
SW Status: P1031
Configuration: 401
SN: P1031
Operator: Not

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: On
Host Connection Request: No
Test Address: 00803112091 hex
Access Code from EUT: 00803112091 hex
Access Code from SW: AF01C59AE241120D5 hex
Connection Page 20: 4
Connection Page 21: 3000
Power Control: Not supported
Add. Transmission (Transmit): 0.000 dB
Add. Transmission (Receive): 0.000 dB
Voltage Value 1: 5.500 Volt
Voltage Value 2: -20.000 Dog C
Temperature: Not supported

Next measurement will be running with the following parameters:
Voltage: Low
Temperature: Not supported

Measurement: Conducted
EUT Test Mode: Loopback
EUT Signal Type: B1
EUT Signal: B1
Whitening: No
P1 Signalling Level: -70.000 dBm
BER Number of Bits: 160000
BER Limit: 0.000

Operator intervention start at 2002-08-18 01:00:46
Report File: ./dat/03100a01/03100a01_fm.rtp
Operator's account name: t89860

Global Parameter Settings:
Wait On Compare : No
Wait On Outside : No
Wait On Fail : No
Skip Manual Interventions : No
Pilot Disabled : No
Remove Pilot after Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : 1

Starting program tc.AllSensitivity
TC Sensitivity - Single Slot Packets RFC Check

Starting TC Sensitivity - Single Slot Packets (RCV/CA/01/C)
Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT CONO'
Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: Headset
Serial No: P1031
SW Status: P1031
Configuration: 401
SN: P1031
Operator: Not

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: On
Host Connection Request: No
Test Address: 00803112091 hex
Access Code from EUT: 00803112091 hex
Access Code from SW: AF01C59AE241120D5 hex
Connection Page 20: 4
Connection Page 21: 3000
Power Control: Not supported
Add. Transmission (Transmit): 0.000 dB
Add. Transmission (Receive): 0.000 dB

Next measurement will be running with the following parameters:
Voltage: Low
Temperature: Not supported

AP/09/2002 o.k. [Signature]

KOHDE & SCHWABZ Certified, Discreet Test System TSB960 SW Version: 01.24

Program name: tc.AllSensitivity program revision: 1.11

Operator's account name: tbs960
Report File: \\dc\0100601\0100601.m.rpt

Global Parameter Settings:

Wait on Compare : No
Wait on CDSIDE : No
Wait on PARS : No
Skip Manual Interventions : No
Pilot Disabled : No
Remove Pilot's after Program Run : No
Pilot's after Program Run : No
Short Mode : No
Force Mode : No
Pact : 1

Starting program tc.AllSensitivity

TC Sensitivity - Single Slot Packets RFC Check

Starting TC Sensitivity - Single Slot Packets (RFC/CN/CI)

Test Specification NF: 0.91

EUT connected for Measurement and Signalling at: SECU-PORT MEASUREMENT DUT COMP.

Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: F1031
Serial No: 00000007
Comments: S/N Status: 272 ACQZx_hcl_lwl_1k_3_56
Configuration: 401
S/N: F1031
Operator: HCF

Setup mode: Final Testing
Test Mode handle: Every Parameter Set
Pseudo Whitening: ON
Host Connection Request: NO
EUT Address: 0050C215A02P hex
Access Code from EUT: 00000007 hex
Access Code from SU: AFB01C59AE241120D5 hex
Connection V01 Period: 4 Time Slots
Connection Period: 100 ms
Test Parameter Setting Delay: 100
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
B2K measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: -20.000 Volt
Temperature: -20.000 Deg C

Next measurement will be running with the following parameters:

Voltage: Low
Temperature: Low
Power Mode: Not Controlled

Measurement: Conducted
EUT Power: 100mW
BI Signal Packet Type: PARS 9
BI Signal Pattern: Vca 900 dBm
Whitening: 1600000
Pilot's after Program Run: 1600000
BER Limit: 0.100

Operator Intervention occur at 2002-08-18, 01:18:39
Please prepare the EUT for Test Mode Activation
Operator Intervention end at 2002-08-18, 01:18:40

All selected Sensitivity - Single Slot Packets tests are completed

Wait on Compare: PASS
Pilot's after Program Run: PASS
Report file closed at 2002-08-18, 01:20:05

=====

MODE 4 SCHMARTZ Certified: Winbox Test System 208950 SW Version: D1.24

=====

Program name: TC>AllSensitivity Program revision: 1.11

=====

Receiver Sensitivity Testcase

=====

Test Case start: 2002-08-17 21:48:54 (TS09600)

Report File: C:\Program Files\Winbox\bin\report.htm.rpt

Operator's account name: ts8960

=====

Global Parameter Settings:

Wait on Compare	No
Wait on OTFSIDE	No
Wait on FILL	No
Wait on PLOT	No
Skip Manual Interventions	No
Plot Disabled	No
Remove Plots After Program Run	No
Force Mode	No
Plot Mode	No
Force Mode	No
Part	1

=====

Starting program TC>AllSensitivity

=====

TC Sensitivity - Single Slot Packets RFC Check

=====

Starting TC Sensitivity - Single Slot Packets (RFC/CA/CI)

=====

Test Specification RF: 0.91

=====

RF connected for Measurement and Signaling at: SSCU Port MEASUREMENT OUT COM-

=====

Next measurement will be running with the following ERF parameters:

=====

Manufacturer: Ciation
Model: F1031
Serial No: P1031
Comment: SW Status: 272 BCO2X, Inc_Lvl_1k.1.56
Configuration: A01
S/N: F1031

Operator: NOF

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Control: On
Mode Connection Request: No
ERF Address: 0050C215A02F hex
Transfer Address: 0050D712A091 hex
Access Code from SU: A00F1C69A24112005 hex
Access Code from SU: A00F1C69A24112005 hex
Connection Poll Period: 4000 ms
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Add Transmission (Receive): 0.000 dB
Add Transmission (Transmit): 0.000 dB
RSS Measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: 80.000 Deg C
Temperature: 80.000 Deg C

Next measurement will be running with the following parameters:

Voltage: High
Temperature: High
Power Mode: Not Controlled

Measurement: Conducted
Interference: No feedback
BI Signal Packet Type: PMS 9
BI Signal Pattern: PMS 9
Whitening: Yes
BI Signaling Level: 0.000 dBm
BI Signaling of BI: 1.0000
BER Limit: 0.100

Operator Intervention start at 2002-08-17 21:49:03

Operator Intervention end at 2002-08-17 21:49:04

Operator Intervention Type: Please provide the ERF file

=====

TX-RX: RX-RX: Bit Error Rate LIMIT VERDICT

2402.0	2480.0	0.000	<=	0.100	PASS
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=====

All selected sensitivity - Single Slot Packets tests are completed

Duration 00:01:36

Report File closed at 2002-08-17, 21:50:30

=====

Receiver Sensitivity Testcase
Program Name: TC_AllSensitivity program revision: 1.11

Test Case started: 2002-08-17, 21:51:15 (TSB90R)
Run File: 0100601
Operator's account name: L89960

Stock Parameter Settings:
Wait on Compare : No
Wait on Outside : No
Abort on Fail : No
Skip Manual Interventions : No
Plots Disabled : No
Remove Plots after Program Run : No
Short Mode : No
Force Mode : No
Part : 1

Starting program TC_AllSensitivity

TC Sensitivity - Single Slot Packets RFC Check

Starting TC Sensitivity - Single Slot Packets (RM/CA/01/C)

Test Specification RF: 0.91

EUT connected for Measurement and Signalling at GSCU-Port. Measurement EUT CONF.

Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: F1031
Serial No: 00000007
Comment: SW Status: 212 M00X_Incl_V1_k_3.56
S/N: F1031
Operator: NoF
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Power Mode: On
Host Connection Request: No
EUT Address: 0050C119A02F hex
EUT Address: 0050C119A02F hex
Access Code from SW: A0F1C69A2411205 hex
Access Code from SW: A0F1C69A2411205 hex
Connection wait period: 4000 ms
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
BER measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: 80.000 Deg C
Temperature: 80.000 Deg C
Next measurement will be running with the following parameters:
Voltage: High
Power Mode: Not Controlled

Measurement:
EUT Test Mode: Conducted
BI Signal Pattern Type: L89960
BI Signal Pattern: PMS 9
Whiteing Level: -70.000 dBm
BER Limit: 0.100
BER Limit: 0.100

Operator Intervention start at 2002-08-17, 21:51:25
Operator Intervention end at 2002-08-17, 21:51:27
Operator Intervention Type: 'Please prepare the EUT for 'Test Mode Activation'

All selected Sensitivity - Single Slot Packets tests are completed

Final Test Case verdict: PASS
Report file closed at 2002-08-17, 21:51:52