

**TEST REPORT
FROM
RFI GLOBAL SERVICES LTD**

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Test Report Serial No:
RFI/RPTE1/RP48655JD12A

This Test Report Is Issued Under The Authority
Of Michael Derby, Wireless Radio Performance Group Leader:



Tested By: Ian Watch



Checked By: Michael Derby



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Issue Date: 24 April 2007

Test Dates: 15 March 2007 to 03 April 2007

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Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Executive Summary

RFI Global Services Ltd (RFI) was commissioned to perform an independent series of conformance tests to assess compliance with the FCC Part 15.247: 2006 (Subpart C).

Summary of Results

Range of Measurements	Clause Reference	Port Type	Compliance Status
Idle Mode AC Conducted Emissions (150 kHz to 30 MHz)	Section 15.107	AC Mains	Complied
Idle Mode Radiated Spurious Emissions	Section 15.109	Antenna	Complied
Transmitter AC Conducted Emissions (150 kHz to 30 MHz)	Section 15.207	AC Mains	Complied
Transmitter Minimum 6 dB Bandwidth	Section 15.247(a)(2)	Antenna	Complied
Transmitter 20 dB Bandwidth	Section 2.1049	Antenna	Complied
Transmitter Peak Power Spectral Density	Section 15.247(e)	Antenna	Complied
Transmitter Maximum Peak Output Power	Section 15.247(b)(3)	Antenna	Complied
Transmitter Conducted Emissions	Section 15.247 (d)	Antenna	Complied
Transmitter Radiated Emissions	Sections 15.247(d) & 15.209(a)	Antenna	Complied
Transmitter Band Edge Conducted Emissions	Section 15.247(d)	Antenna	Complied
Transmitter Band Edge Radiated Emissions	Sections 15.247(d) & 15.209(a)	Antenna	Complied

Key to Compliance Colours used in this report:

Colour	Definition
	Compliant
	Indeterminate*
	Not compliant

* Indeterminate because the measurements were within measurement uncertainty.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Table of Contents

1. Client Information	4
2. Equipment Under Test (EUT)	5
3. Test Specification, Methods and Procedures	10
4. Deviations from the Test Specification	11
5. Operation and Configuration of the EUT during Testing	12
6. Measurements, Examinations and Derived Results.....	13
7. Measurement Uncertainty	42
8. Measurement Methods.....	43
Appendix 1. Test Equipment Used.....	51
Appendix 2. Test Configuration Drawings	53

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

1. Client Information

Company Name:	Datalogic S.p.A
Address:	Via Candini, 2 Lippo di Calderara di Reno Bologna Italy 40012
Contact Name:	Mr P Guerzoni

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

2. Equipment Under Test (EUT)

The following information (with the exception of the date of receipt) has been supplied by the customer:

2.1. Description of EUT

The equipment under test is the Skorpio model. It is a battery powered portable computer with *Bluetooth* (2.4 GHz) and *WI-FI* (2.4 GHz) radio capabilities.

2.2. Identification of Equipment Under Test (EUT)

Description:	PDA
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	DL-Skorpio 701-902
Serial Number:	D07P00000
FCC ID Number:	U4G0020 (WI-FI card is certified under FCC ID TWG-SDCCF10G)
Country of Manufacture:	Italy
Date of Receipt:	15 March 2007

Description:	F-Colour Single Cradle
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	F-colour Single Cradle
Serial Number:	D06F060472
FCC ID Number:	Not Applicable
Country of Manufacture:	Italy
Date of Receipt:	15 March 2007

2.3. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

2.4. Accessories

The following accessories were supplied with the EUT during testing:

Description:	Serial Cable
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	p/n 94A0540000
Serial Number:	None Stated
Cable Length:	2m
Connected to Port	Serial port of the cradle

Description:	Power supply
Brand Name:	Ontop
Model Name or Number:	SAL115A-0525V-6
Serial Number:	None Stated
Cable Length and Type:	1m, USB
Connected to Port	Mini USB connector of the PDA

Description:	USB Cable
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	p/n 007100068
Serial Number:	None Stated
Cable Length and Type:	2m
Connected to Port	Mini USB connector of the PDA

Description:	Power Supply
Brand Name:	Power Win Technology
Model Name or Number:	PW-060A-01Y140 (in Datalogic it is called FPS18)
Serial Number:	PW72522020
Cable Length and Type:	1m, USB
Connected to Port	Power port of the cradle

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

2.5. Support Equipment

No support equipment was used to exercise the EUT during testing:

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

2.6. Additional Information Related to Testing

Intended Operating Environment:	Residential Within <i>Bluetooth</i> and Wi-Fi coverage		
Equipment Category:	<i>Bluetooth</i> 802.11g and 802.11g		
Type of Unit:	Portable		
Power Supply Requirement:	Nominal 110 V, 60 Hz. AC Mains Supply via AC Charger		
Maximum Power Output (ERP)	0 dBm		
Transmit Frequency Range Bluetooth:	2402 to 2480 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	39	2441
	Top	78	2480
Receive Frequency Range Bluetooth:	2402 to 2480 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	39	2441
	Top	78	2480

Additional channels used for co-location testing:

Transmit Frequency Range for Wi-Fi:	2412 to 2462 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Top	11	2462
Receive Frequency Range for Wi-Fi:	2412 to 2462 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Top	11	2462

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

2.7. Port Identification

Port	Description
1	USB port/ AC Charger Port
2	Mini USB connector

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

3. Test Specification, Methods and Procedures

3.1. Test Specification

Reference:	FCC Part 15.247: 2006 Subpart C
Title:	Code of Federal Regulations, Part 15.247 (47CFR15) (Intentional Radiators operating within the band 2400 MHz to 2483.5 MHz)

3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2003)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

DA00-705 (2000)

Title: Filing and Frequency Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures section above. Appendix 1 contains a list of the test equipment used.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

4. Deviations from the Test Specification

There were no deviations from the test specification.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

5. Operation and Configuration of the EUT during Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

For all transmit mode measurements the *Bluetooth* test mode was active and set to transmit on top, middle and bottom channels and hopping on all channels as necessary with the longest data packet size.

Receiver mode measurements were performed with the EUT set to receive mode only.

For co-location testing the EUT was configured to operate in Wi-Fi 802.11b and *Bluetooth* modes simultaneously.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

The EUT was configured with the charger port connected to an external 110 V AC supply via an AC charger.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

6. Measurements, Examinations and Derived Results

6.1. General Comments

This section contains test results only.

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to section 8 for details of measurement uncertainties.

6.2. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, UK.

FCC Site Registration Number: 90895

IC Site Registration Number: 3485

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

6.3. Test Results

Idle Mode AC Conducted Spurious Emissions: Section 15.107

Temperature (°C):	16	Relative Humidity (%):	41
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Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)
0.150000	Live	43.9	66.0	22.1	Complied
0.170000	Neutral	41.6	65.0	23.4	Complied
0.174000	Neutral	48.1	64.8	16.8	Complied
0.202000	Live	35.0	63.5	28.5	Complied
0.230000	Live	31.7	62.4	30.7	Complied
0.258000	Live	33.2	61.5	28.3	Complied
0.314000	Live	29.5	59.9	30.4	Complied
0.358000	Live	26.0	58.8	32.8	Complied
0.414000	Live	27.3	57.6	30.3	Complied
0.454000	Live	24.2	56.8	32.6	Complied

Average Detector Measurements on Live and Neutral Lines

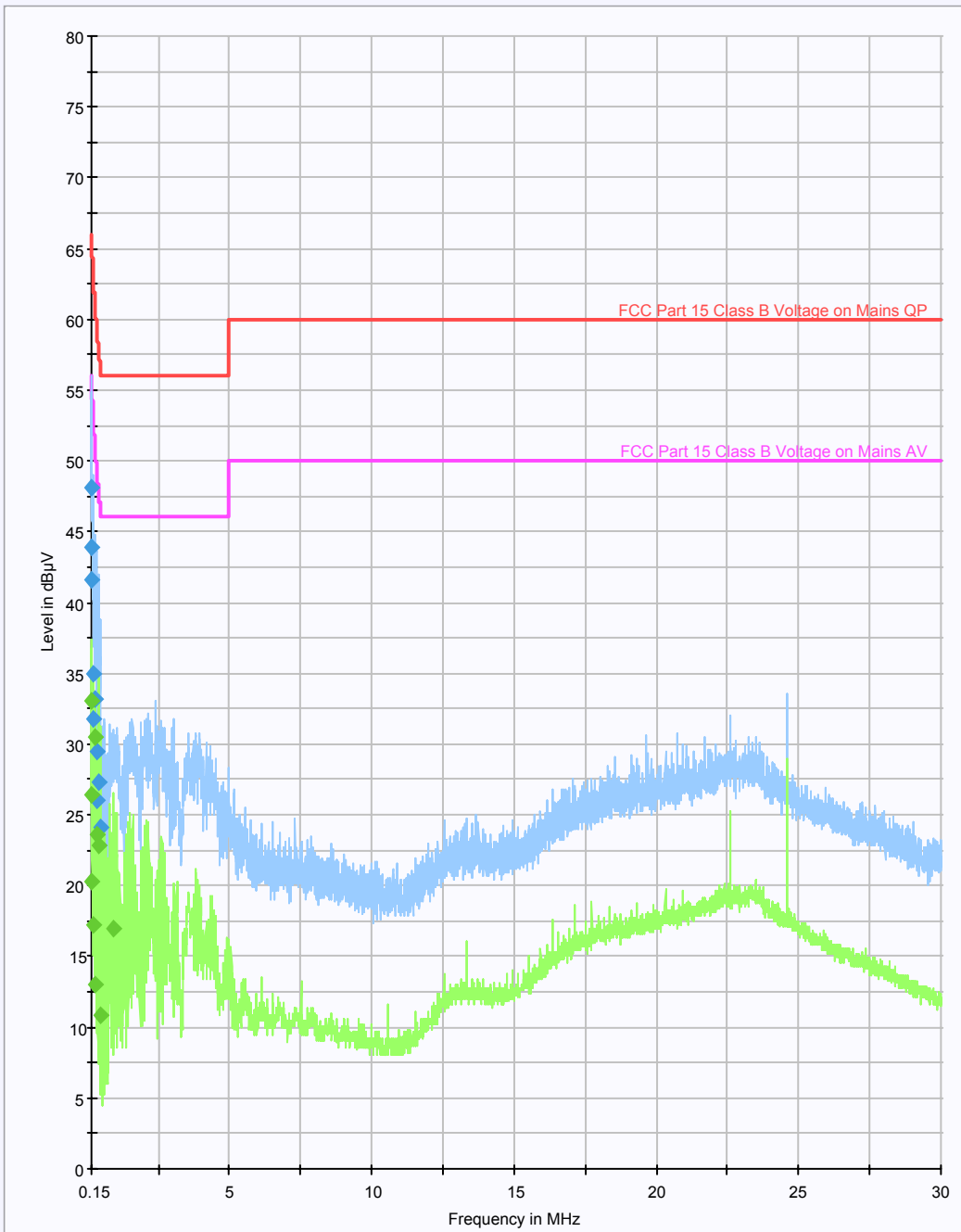
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)
0.154000	Live	20.3	55.8	35.5	Complied
0.170000	Neutral	26.4	55.0	28.6	Complied
0.174000	Neutral	33.0	54.8	21.8	Complied
0.206000	Neutral	17.2	53.4	36.2	Complied
0.286000	Neutral	13.0	50.6	37.6	Complied
0.310000	Neutral	30.5	50.0	19.5	Complied
0.358000	Neutral	23.6	48.8	25.2	Complied
0.402000	Neutral	22.8	47.8	25.0	Complied
0.462000	Neutral	10.9	46.7	35.8	Complied
0.914000	Neutral	16.9	46.0	29.1	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode AC Conducted Spurious Emissions: Section 15.107 (Continued)

Graph(s):



This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode Radiated Spurious Emissions: Section 15.109

Temperature (°C):	17	Relative Humidity (%):	42
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Results:

Electric Field Strength Measurements (Frequency Range: 30 MHz to 1000 MHz)

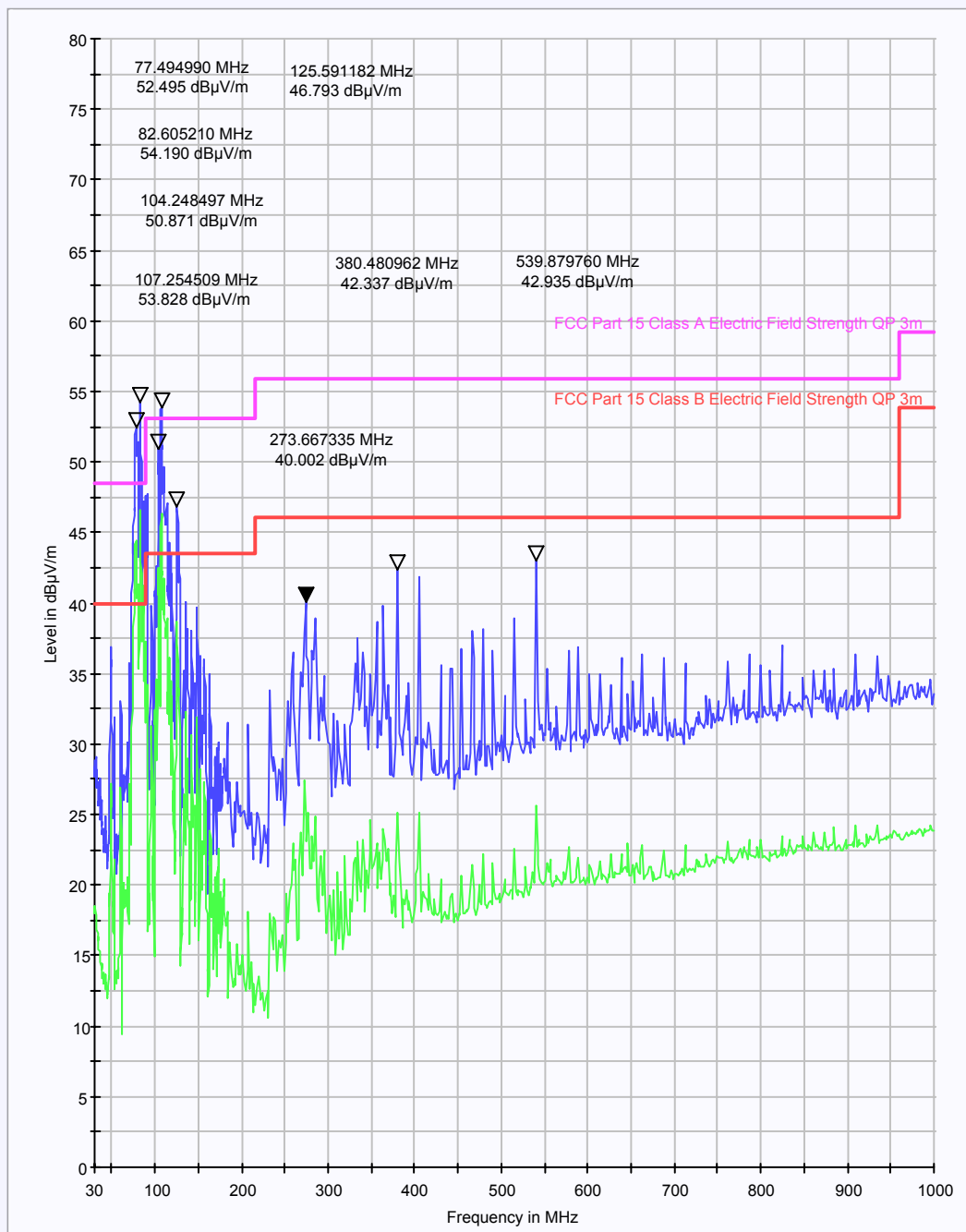
Frequency (MHz)	Antenna Polarity	Q-P Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
77.765	Vertical	26.8	40.0	13.2	Complied
83.292	Vertical	27.0	40.0	13.0	Complied
104.268	Vertical	25.7	43.5	17.8	Complied
107.364	Vertical	25.0	43.5	18.5	Complied
125.220	Vertical	22.0	43.5	23.5	Complied
275.197	Vertical	24.2	46.0	21.8	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode Radiated Spurious Emissions: Section 15.109

Graph(s):



This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode Radiated Spurious Emissions: Section 15.109 (Continued)

Temperature (°C):	11	Relative Humidity (%):	72
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Results:

Electric Field Strength Measurements (Frequency Range: 1 GHz to 12.5 GHz)

Highest Peak Level:

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1.6533	Horizontal	59.1	-7.1	52.0	74.0	22.0	Complied

Highest Average Level:

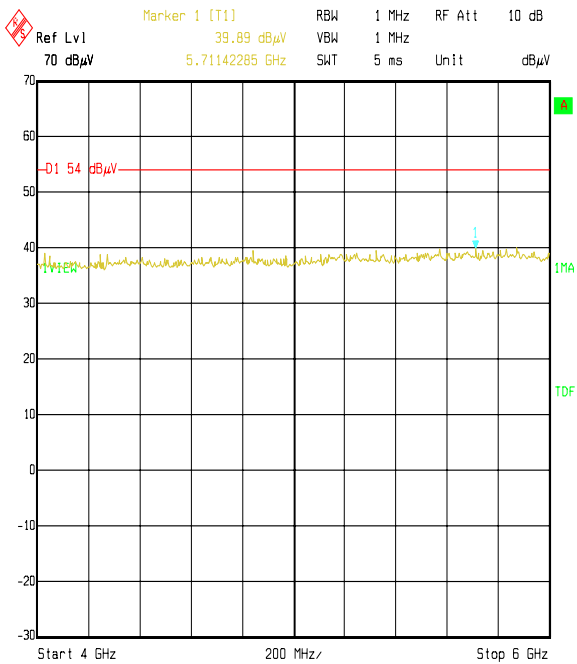
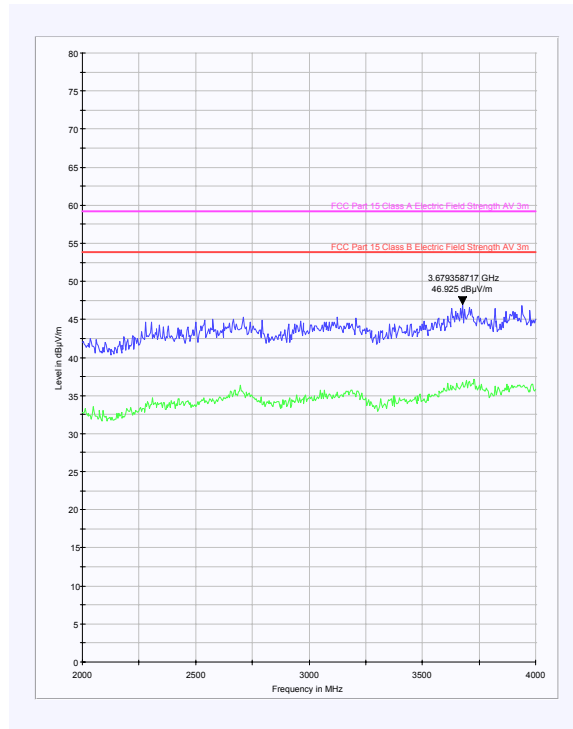
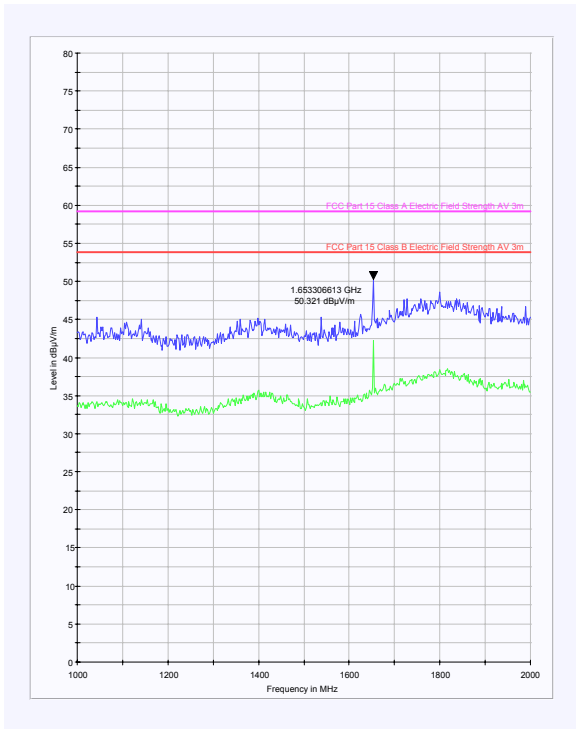
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1.6533	Horizontal	56.8	-7.1	49.7	54.0	4.3	Complied

Test of: Datalogic S.p.A
Skorpio

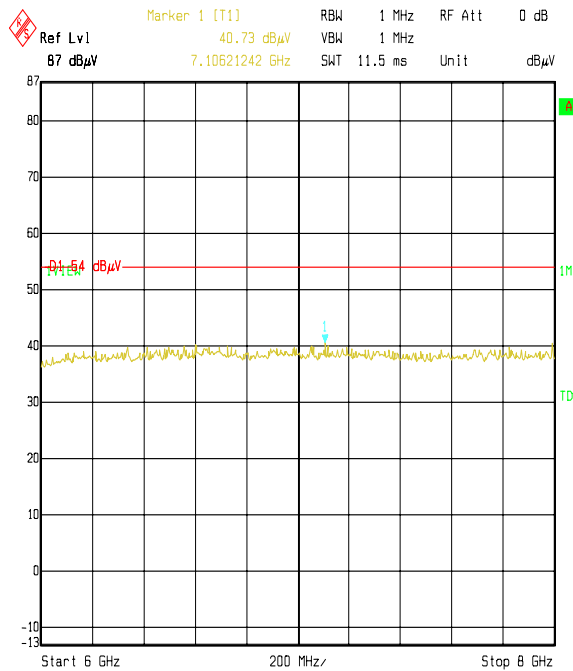
To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode Radiated Spurious Emissions: Section 15.109 (Continued)

Graph(s):



Title: 48655JD12 FCC PART 15.247
Comment A: RX RADIATED
Date: 20.MAR.2007 18:14:28



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED EMISSIONS
Comment A: RX RADIATED
Date: 03.APR.2007 13:54:08

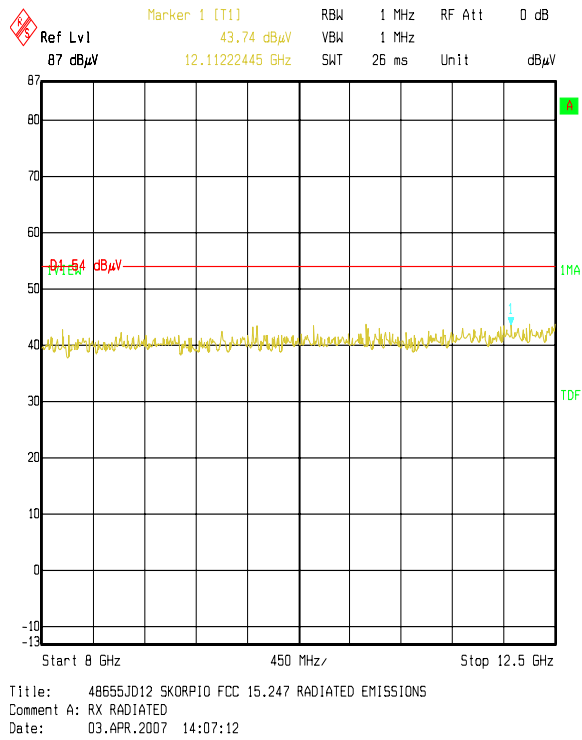
These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Idle Mode Radiated Spurious Emissions: Section 15.109 (Continued)

Graph(s):



This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter AC Conducted Spurious Emissions: Section 15.207

Temperature (°C):	16	Relative Humidity (%):	41
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Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

Top Channel

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)
0.150000	Neutral	45.4	66.0	20.6	Complied
0.178000	Neutral	49.2	64.6	15.4	Complied
0.222000	Neutral	43.4	62.7	19.3	Complied
0.226000	Neutral	40.3	62.6	22.3	Complied
0.270000	Neutral	39.1	61.1	22.1	Complied
0.314000	Neutral	38.5	59.9	21.4	Complied
0.354000	Neutral	35.7	58.9	23.2	Complied
0.418000	Neutral	30.8	57.5	26.7	Complied
0.442000	Neutral	39.8	57.0	17.2	Complied
0.490000	Neutral	31.4	56.2	24.8	Complied

Average Detector Measurements on Live and Neutral Lines

Top Channel

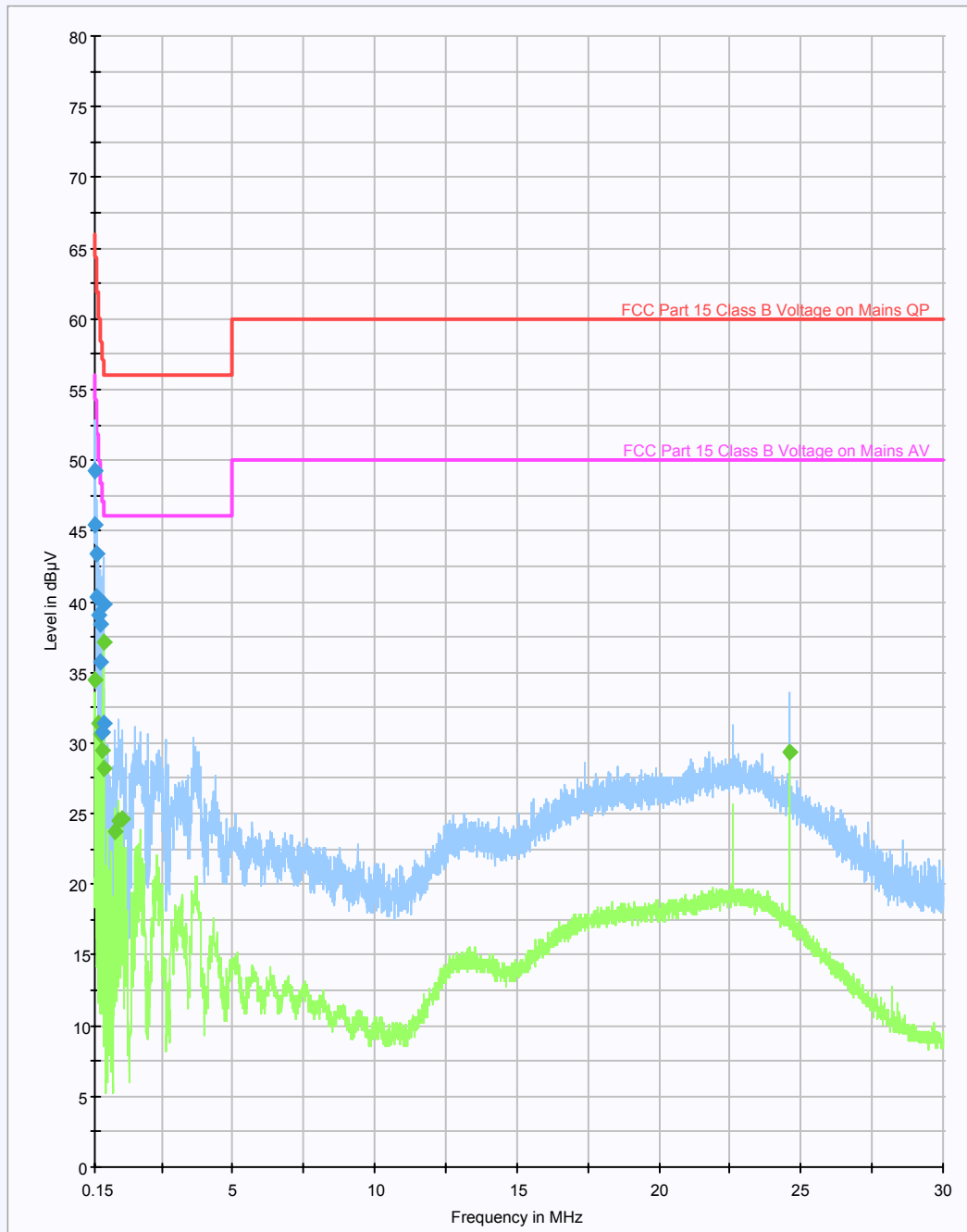
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)
0.178000	Neutral	34.4	54.6	20.2	Complied
0.310000	Neutral	31.3	50.0	18.7	Complied
0.354000	Neutral	30.6	48.9	18.3	Complied
0.402000	Live	29.5	47.8	18.3	Complied
0.446000	Neutral	37.1	46.9	9.8	Complied
0.490000	Neutral	28.2	46.2	18.0	Complied
0.886000	Neutral	23.7	46.0	22.3	Complied
0.974000	Neutral	24.5	46.0	21.5	Complied
1.114000	Neutral	24.6	46.0	21.4	Complied
24.578000	Live	29.4	50.0	20.6	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter AC Conducted Spurious Emissions: Section 15.207(Continued)

Graph(s):



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

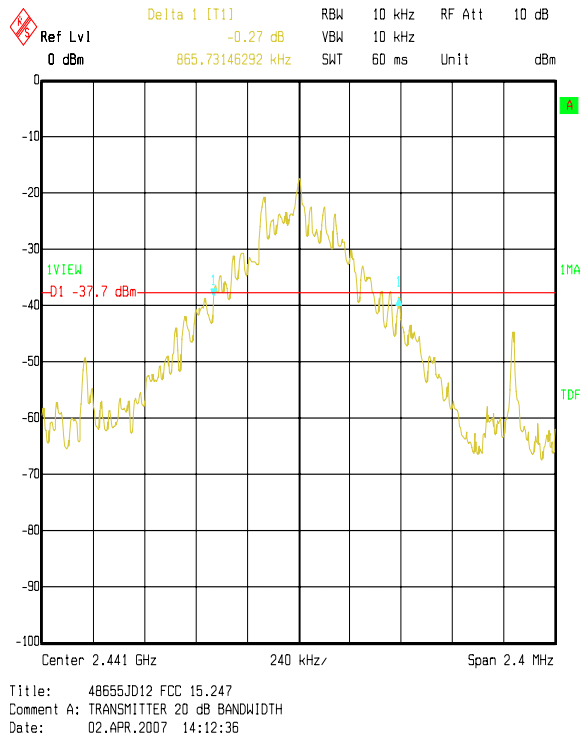
Transmitter 20 dB Bandwidth: Section 15.247(a)(1)

Temperature (°C):	16	Relative Humidity (%):	45
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Results:

Transmitter 20 dB Bandwidth (kHz)	Limit (kHz)
865.731	None specified

Graph(s):



Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

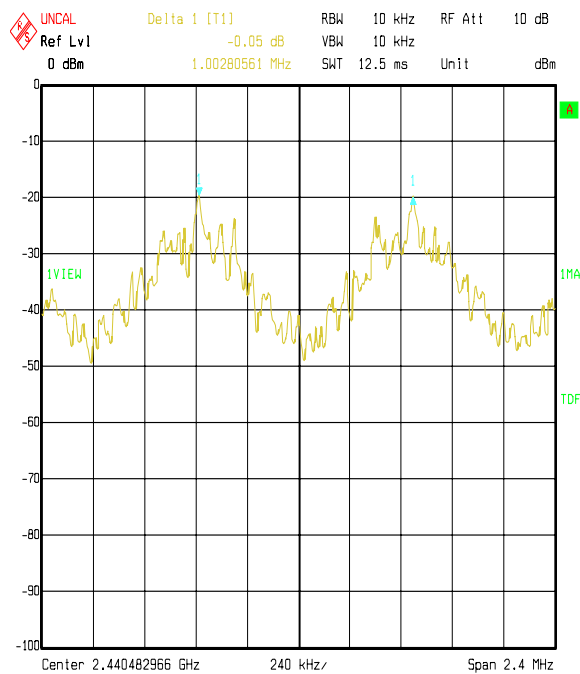
Transmitter Carrier Frequency Separation: Section 15.247(a)(1)

Temperature (°C):	16	Relative Humidity (%):	45
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Results:

Transmitter Carrier Frequency Separation (kHz)	Limit (> 2/3 of 20 dB BW) (kHz)	Margin (kHz)	Result
1002.806	577.154	425.652	Complied

Graph(s):



Title: 48655JD12 FCC 15.247
 Comment A: TRANSMITTER CARRIER FREQUENCY SEPARATION
 Date: 02.APR.2007 14:32:26

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Average Time of Occupancy: Section 15.247(a)(1)(iii)

Temperature (°C):	16	Relative Humidity (%):	45
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Results:

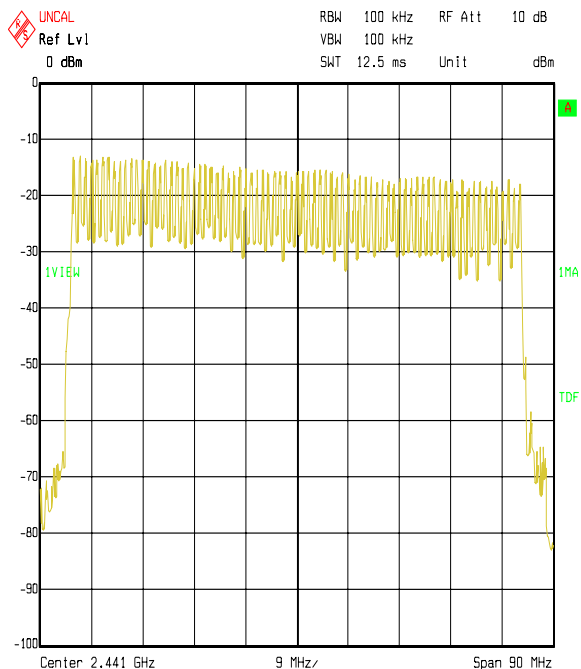
Emission Width (µs)	Number of Hops in 31.6 Seconds	Average Time of Occupancy (s)	Limit (s)	Margin (s)	Result
2917.836	110	0.321	0.4	0.079	Complied

Test of: Datalogic S.p.A
Skorpio

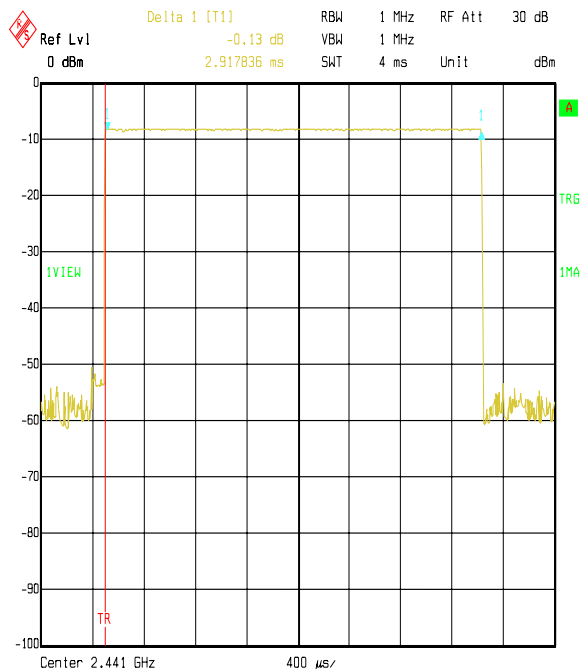
To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Average Time of Occupancy: Section 15.247(a)(1)(iii) (Continued)

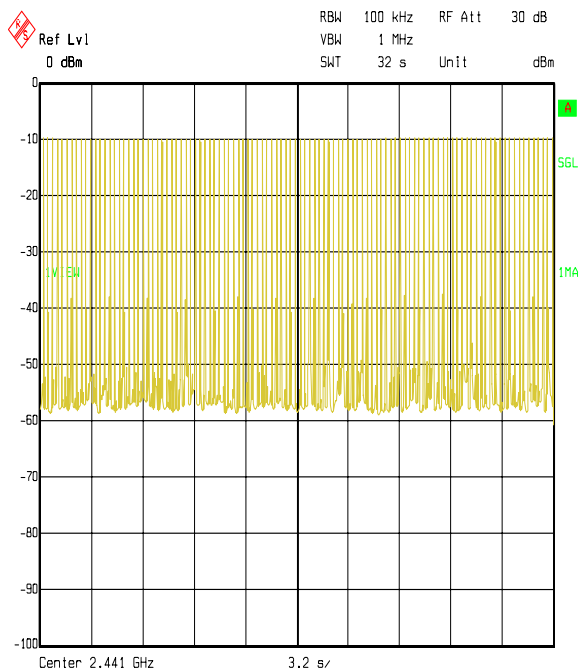
Graph(s):



Title: 48655JD12 FCC 15.247
Comment A: AVERAGE TIME OF OCCUPANCY, NUMBER OF CHANNELS
Date: 02.APR.2007 14:40:44



Title: 48655JD12 FCC 15.247
Comment A: AVERAGE TIME OF OCCUPANCY, PULSE LENGTH
Date: 02.APR.2007 15:08:21



Title: 48655JD12 FCC 15.247
Comment A: AVERAGE TIME OF OCCUPANCY, NUMBER OF HOPS
Date: 02.APR.2007 15:48:49

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Maximum Peak Output Power: (EIRP) Section 15.247(b)(1)

Temperature (°C):	16	Relative Humidity (%):	45
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Results:

Battery Powered Devices

Channel	EIRP (dBm)	Limit (dBm)	Margin (dB)	Results
Bottom	-0.4	30.0	30.4	Complied
Middle	-1.9	30.0	31.9	Complied
Top	-3.8	30.0	33.8	Complied

Note(s):

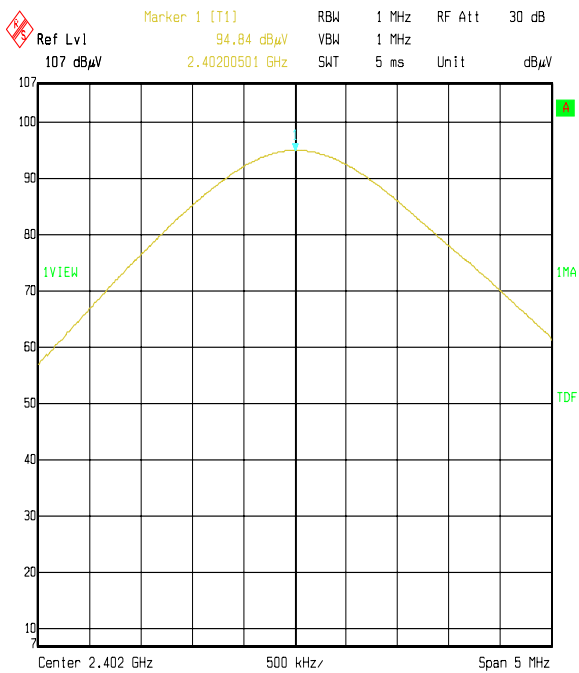
1. These tests were performed radiated; therefore the EUT antenna gain is encompassed in the final result and not measurable.
-

Test of: Datalogic S.p.A
Skorpio

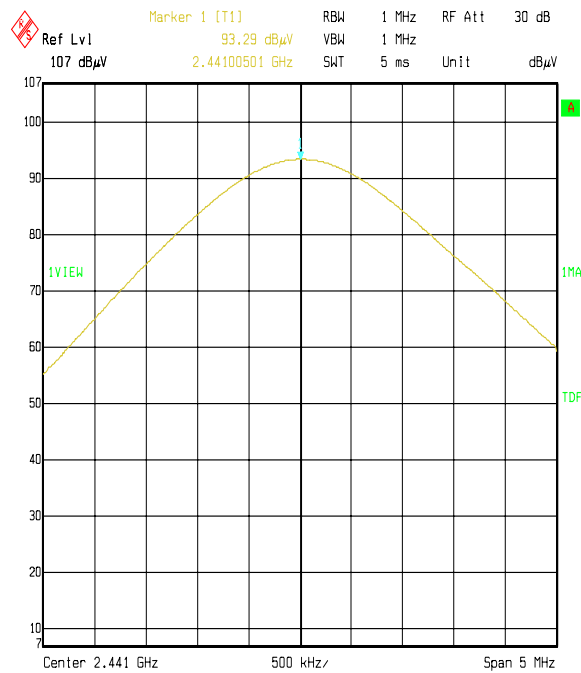
To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Maximum Peak Output Power: (EIRP) Section 15.247(b)(1), (Continued)

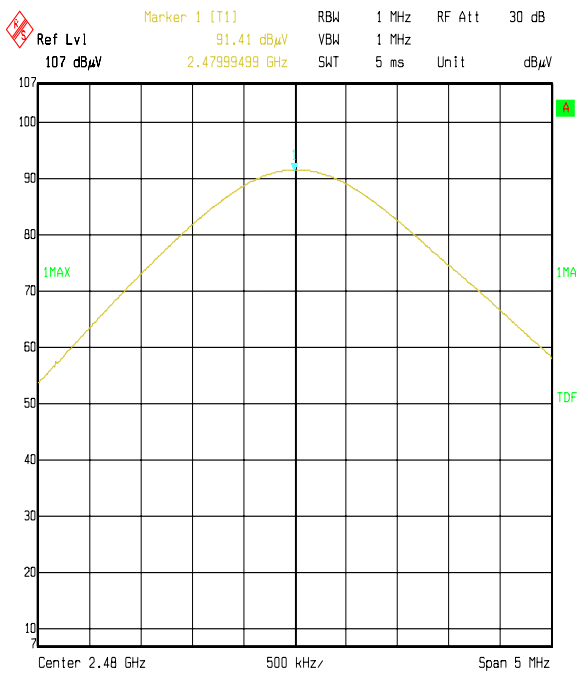
Graph(s):



Title: 48655JD12 FCC 15.247
Comment A: EIRP MEASUREMENTS BOTTOM CHANNEL
Date: 02.APR.2007 12:37:02



Title: 48655JD12 FCC 15.247
Comment A: EIRP MEASUREMENTS MIDDLE CHANNEL
Date: 02.APR.2007 13:50:10



Title: 48655JD12 FCC 15.247
Comment A: EIRP MEASUREMENTS TOP CHANNEL
Date: 02.APR.2007 12:26:57

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a)

Temperature (°C):	13	Relative Humidity (%):	41
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Results:

**Electric Field Strength Measurements: 30 MHz to 1000 MHz
(emissions occurring in the restricted bands)**

Top Channel

Frequency (MHz)	Antenna Polarity	Q-P Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
113.287	Vertical	30.6	43.5	12.9	Complied

Note(s):

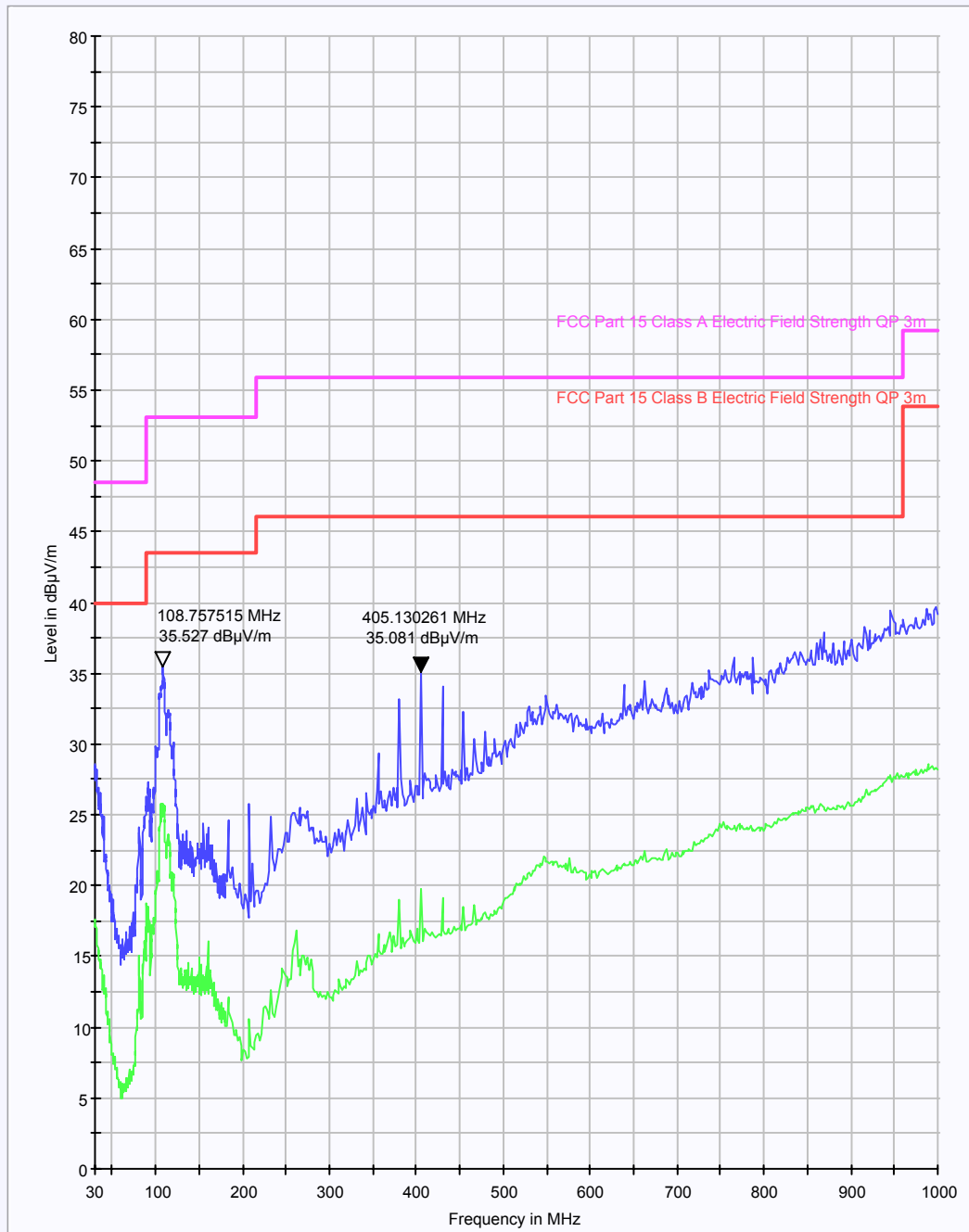
1. *The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.*

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) (Continued)

Graph(s):



This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) (Continued)

Temperature (°C):	13	Relative Humidity (%):	53
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Results:

**Electric Field Strength Measurements (Frequency Range: 1 GHz to 25 GHz)
(emissions occurring in the restricted bands)**

Highest Peak Level: Bottom Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.803952	Vertical	52.3	-5.3	47.0	74.0	27.0	Complied

Highest Average Level: Bottom Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.803952	Vertical	49.3	-5.3	44.0	54.0	10.0	Complied

Highest Peak Level: Middle Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.882039	Vertical	47.8	-5.0	42.8	74.0	31.2	Complied

Highest Average Level: Middle Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.882039	Vertical	43.4	-5.0	38.4	54.0	15.6	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) (Continued)

Results:

Highest Peak Level: Top Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.960010	Vertical	42.5	-4.7	37.8	74.0	36.2	Complied

Highest Average Level: Top Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.960010	Vertical	33.6	-4.7	28.9	54.0	25.1	Complied

Highest Peak Level: Hopping Mode

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.809619	Vertical	51.5	-5.3	46.2	74.0	27.8	Complied

Highest Average Level: Hopping Mode

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4.809619	Vertical	49.5	-5.3	44.2	54.0	9.8	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) (Continued)

Temperature (°C):	11	Relative Humidity (%):	72
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Results:

**Electric Field Strength Measurements (Frequency Range: 1 GHz to 25 GHz)
(emissions outside the restricted bands)**

Highest Peak Level: Middle Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
1.6272	Horizontal	51.2	-7.6	43.6	73.3	29.7	Complied

Highest Peak Level: Top Channel

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
1.6534	Horizontal	51.5	-7.1	44.4	71.4	27.0	Complied

Results:

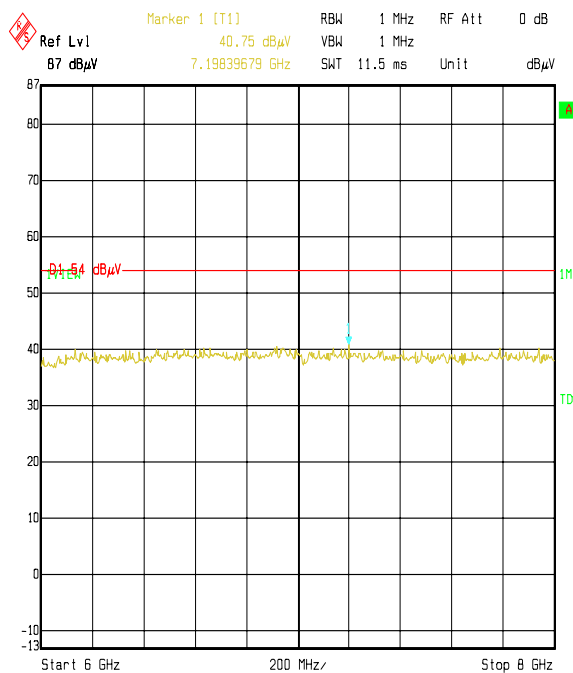
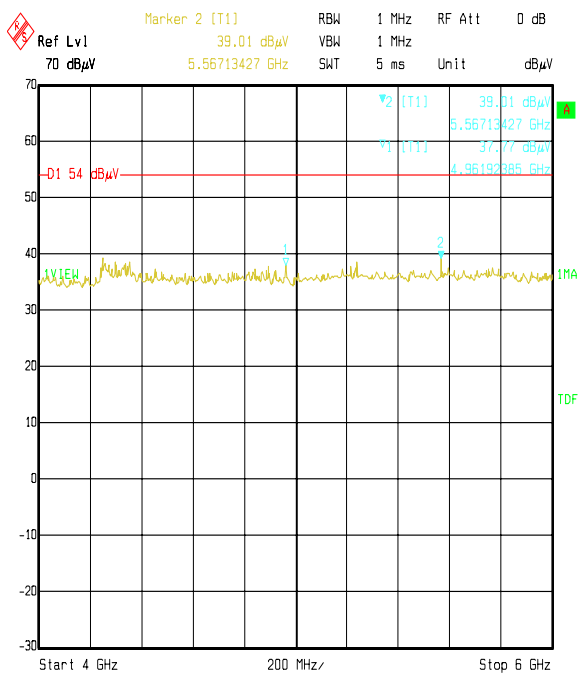
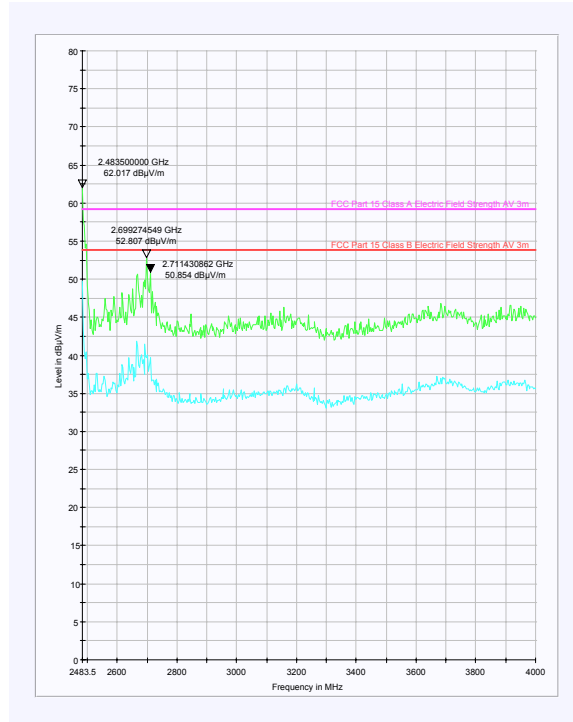
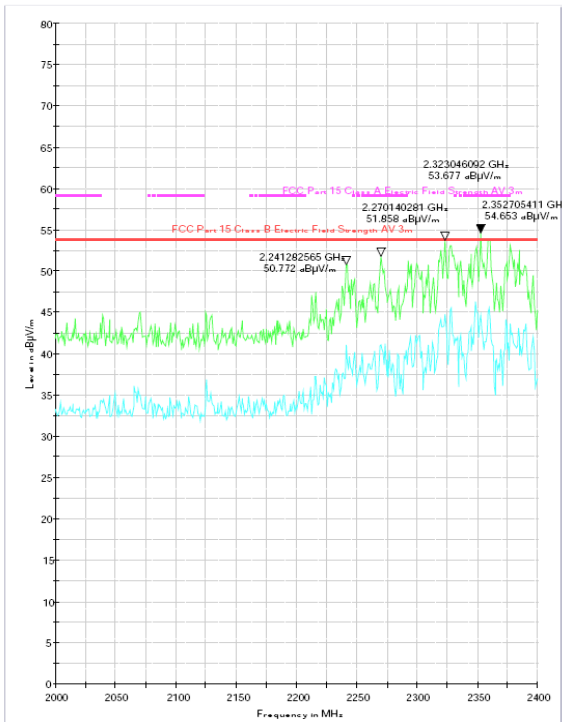
Highest Peak Level: Hopping Mode

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
1.6523	Horizontal	51.4	-7.1	44.3	74.8	30.5	Complied

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Graph(s):



Title: 48655JD12 FCC Part 15.247 Radiated Emissions
Comment A: TX RADIATED TOP CHANNEL
Date: 16.MAR.2007 12:22:04

Title: 48655JD12 SKORPIO FCC 15.247 RADIATED EMISSIONS
Comment A: TX RADIATED TOP CHANNEL
Date: 03.APR.2007 13:50:36

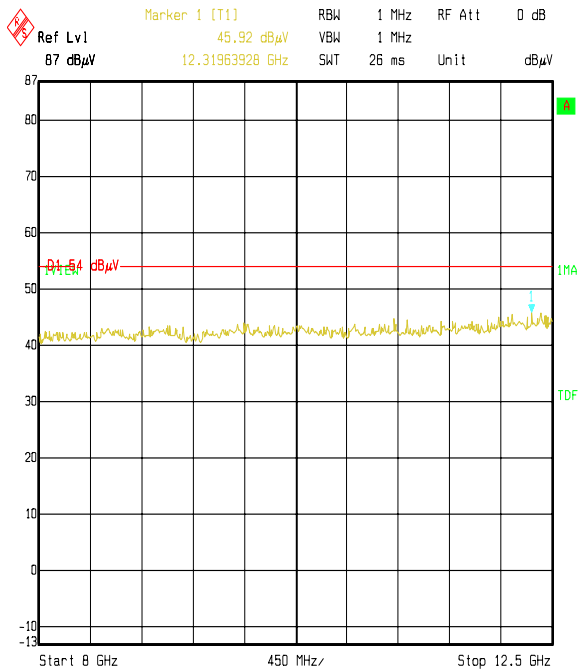
These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

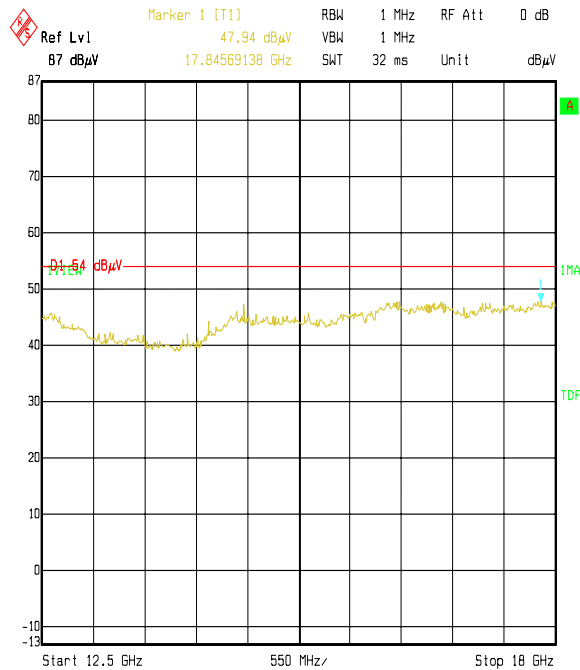
To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) (Continued)

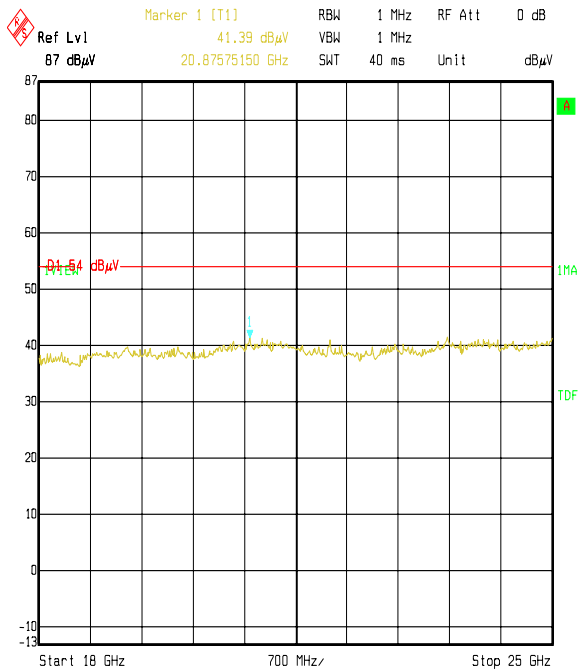
Graph(s):



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED EMISSIONS
Comment A: TX RADIATED TOP CHANNEL
Date: 03.APR.2007 14:12:44



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED EMISSIONS
Comment A: TX RADIATED TOP CHANNEL
Date: 03.APR.2007 14:22:42



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED EMISSIONS
Comment A: TX RADIATED TOP CHANNEL
Date: 03.APR.2007 14:34:57

These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions

Results:

Testing for third order Inter modulation Products

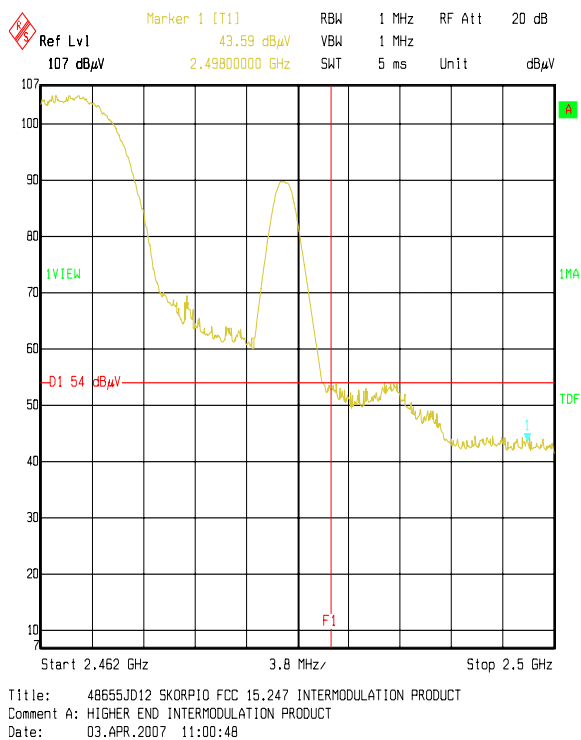
Highest Peak Level:

Frequency (GHz)	Antenna Polarity	Detector Level (dBμV)	Transducer Factor (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2.498	Horizontal	52.1	-8.5	43.6	54	10.4	Complied

Note(s):

1. This testing was performed as part of co location testing, at the 3rd order inter-modulation frequency.
2. The peak level was compared to the average limit.

Graph(s):



Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Radiated Emissions

Results:

Testing for third order Inter modulation Products

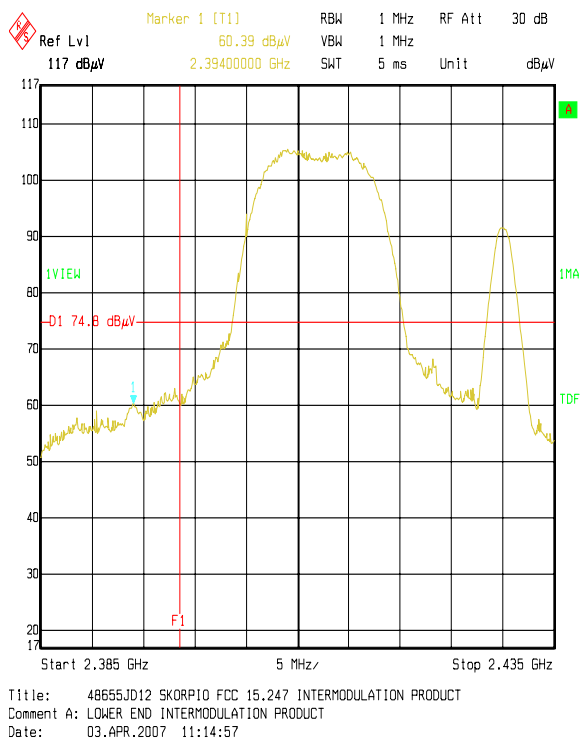
Highest Peak Level:

Frequency (GHz)	Antenna Polarity	Detector Level (dBµV)	Transducer Factor (dB)	Actual Level (dBµV/m)	-20 dBc Limit (dBµV/m)	Margin (dB)	Result
2.394	Horizontal	66.9	-6.5	60.4	74.8	14.4	Complied

Note(s):

1. This testing was performed as part of co location testing, at the 3rd order inter-modulation frequency.
2. The emission level shown was measured in a 1 MHz bandwidth, compared to a dBc limit in 100 kHz.

Graph(s):



Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a)

Temperature (°C):	14	Relative Humidity (%):	65
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Results:

Electric Field Strength Measurements

Peak Power Level Hopping Mode:

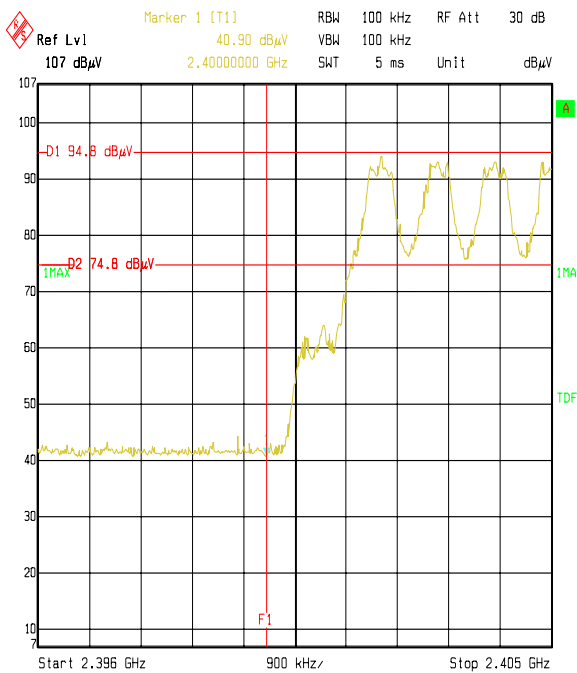
Frequency (GHz)	Antenna Polarity	Detector Level (dBμV)	Transducer Factor (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2.4000	Horizontal	47.4	-6.5	40.9	74.8*	33.9	Complied
2.4835	Horizontal	55.5	-8.0	47.5	74.0	26.5	Complied

* -20 dBc limit

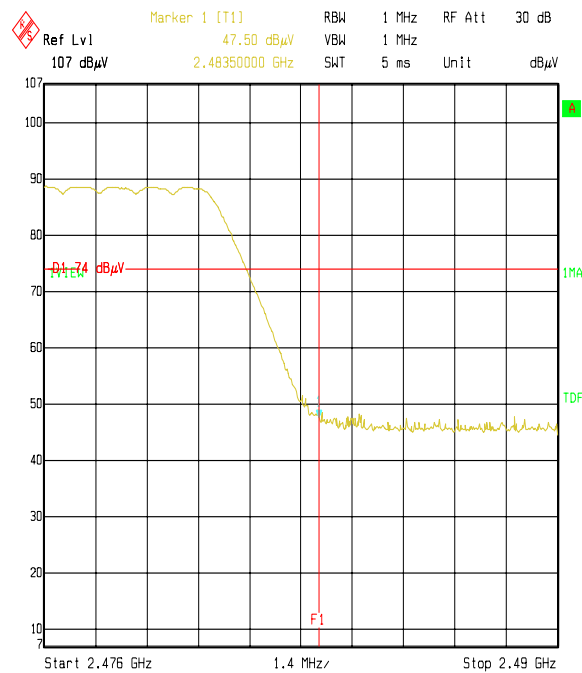
Average Power Level Hopping Mode:

Frequency (GHz)	Antenna Polarity	Detector Level (dBμV)	Transducer Factor (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2.4835	Horizontal	42.9	-8.0	34.9	54.0	19.1	Complied

Graph(s):



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
Comment A: TX MODE (BT) HOPPING ON,BOTTOM CHANNEL
Date: 03.APR.2007 09:46:13

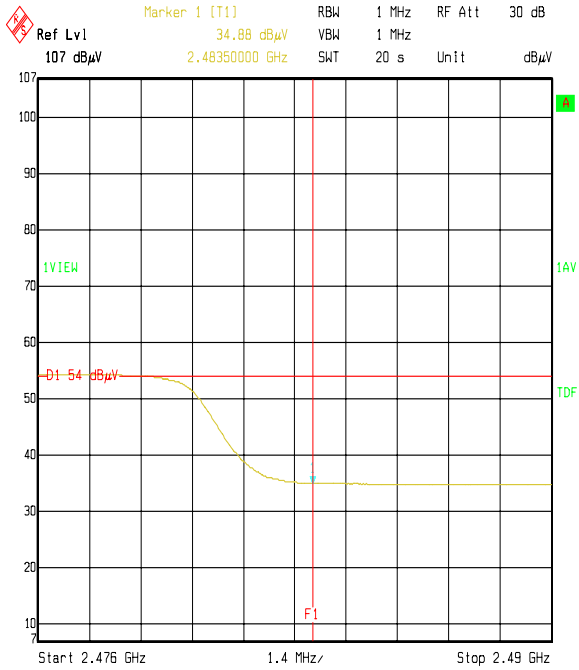


Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
Comment A: TX MODE (BT) HOPPING ON, TOP CHANNEL, PEAK
Date: 03.APR.2007 09:10:43

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) (Continued)



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
Comment A: TX MODE (BT) HOPPING ON, TOP CHANNEL, AVERAGE
Date: 03.APR.2007 09:20:38

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) (Continued)

Temperature (°C):	14	Relative Humidity (%):	65
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Results:

Peak Power Level Static Mode:

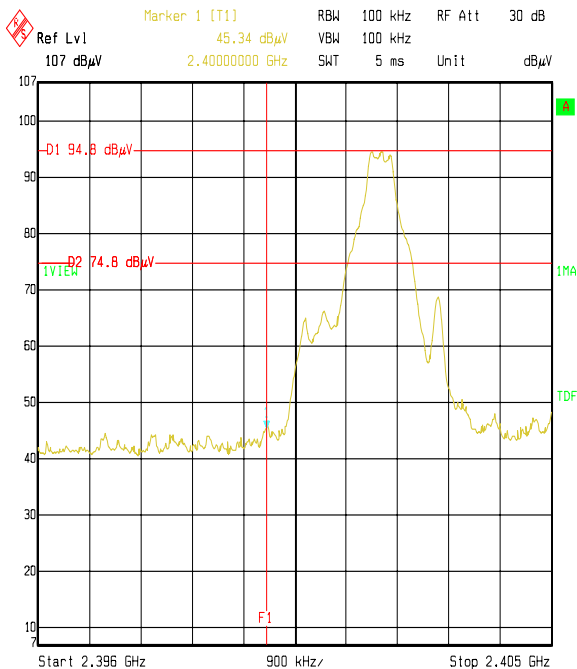
Frequency (GHz)	Antenna Polarity	Detector Level (dBμV)	Transducer Factor (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2.4000	Horizontal	51.8	-6.5	45.3	74.8*	29.5	Complied
2.4835	Horizontal	58.4	-8.0	50.4	74.0	23.6	Complied

* -20 dBc limit

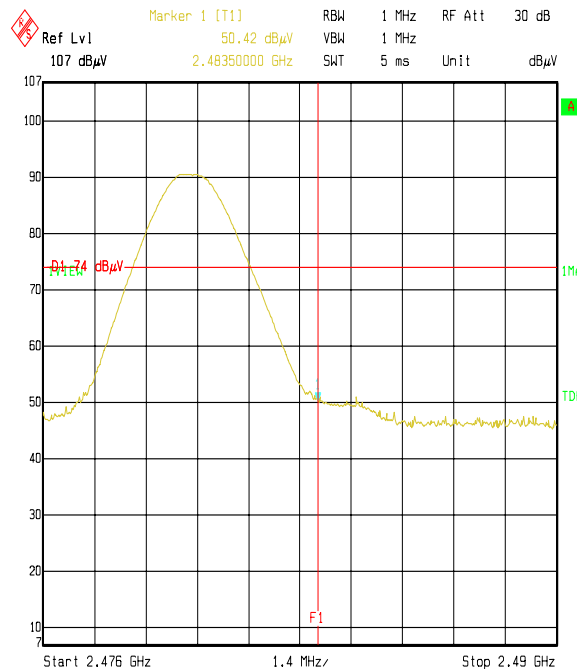
Average Power Level Static Mode:

Frequency (GHz)	Antenna Polarity	Detector Level (dBμV)	Transducer Factor (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2.4835	Horizontal	52.2	-8.0	44.2	54.0	9.8	Complied

Graph(s):



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
 Comment A: TX MODE (BT) BOTTOM CHANNEL
 Date: 03.APR.2007 08:40:23

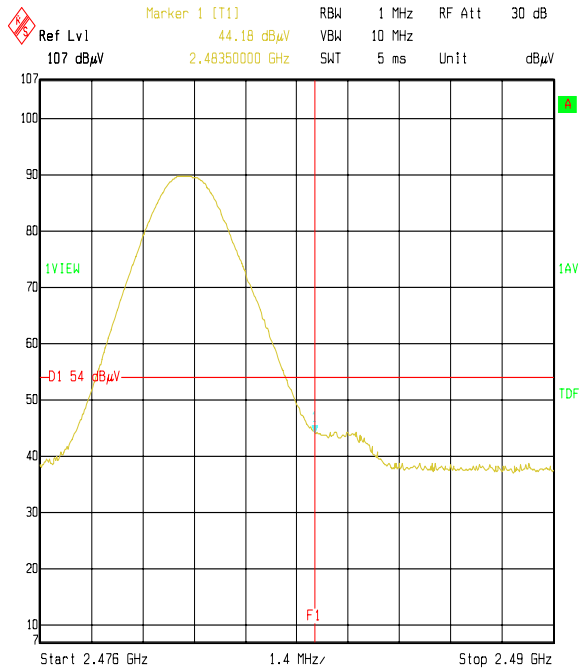


Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
 Comment A: TX MODE (BT) TOP CHANNEL PEAK DETECTOR
 Date: 03.APR.2007 09:00:13

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) (Continued)



Title: 48655JD12 SKORPIO FCC 15.247 RADIATED BAND EDGE
Comment A: TX MODE (BT) TOP CHANNEL AVERAGE DETECTOR
Date: 03.APR.2007 09:03:22

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

7. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.72 dB
Transmitter Maximum Peak Output Power	Not Applicable	95%	±2.94 dB
Conducted Emissions Antenna Port	30 MHz to 40 GHz	95%	±0.28 dB
Transmitter Carrier Frequency Separation	Not Applicable	95%	±11.4 ppm
Transmitter Average Time of Occupancy	Not Applicable	95%	±0.3 ns
20 dB Bandwidth	Not Applicable	95%	± 11.4 ppm
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	±4.64 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	±2.94 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8. Measurement Methods

8.1. AC Mains Conducted Emissions

AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane. The EUT was powered with 110V 60 Hz ac mains supplied via a line impedance stabilisation network (LISN).

Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	>1 s
Observation Time:	Not applicable	>15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8.2. Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. Any emission within 20 dB of the limit were then measured on the open area test site, except in cases where the noise floor was within 20 dB of the limit, in these cases the highest point of the noise floor was measured.

Where an emission fell inside a restricted band, measurements were made at the appropriate test distance using a measuring receiver with a quasi peak detector for measurements below 1000 MHz and an average and peak detector for measurements above 1000 MHz. A peak detector was used for all other measurements.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2003 Clause 5.4.

All measurements on the open area test site were performed using broadband antennas in both vertical and horizontal polarisations.

On the open area test site, at each frequency where a signal was to be measured, the trace was maximised by rotating a turntable through 360°. The angle at which the maximum signal was observed was locked out. For frequencies below 1000 MHz the test antenna was varied in height between 1 m and 4 m in order to further maximise the target emission.

For frequencies above 1000 MHz where a horn antenna was used, height searching was performed to locate the optimal height of the horn with respect to the EUT. At this point the horn was locked off and the turntable was again rotated through 360° to maximise the target signal. It should be noted that the received signal from the EUT would diminish very quickly after it exits the beam width of the horn antenna, for this reason it may not be necessary to fully height search with the horn antennas.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Radiated Emissions (Continued)

At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

Scans were performed to the upper frequency limits as stated in section 15.33.

The final field strength was determined as the indicated level in dB μ V plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements <1 GHz	Final Measurements ≥1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak / Average
Mode:	Max Hold	Not applicable	Max Hold
Bandwidth:	(120 kHz <1 GHz) (1 MHz ≥1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8.3. Carrier Frequency Separation / 20 dB Bandwidth

The EUT and spectrum analyser was configured for radiated measurements, and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

To determine the bandwidth and separation of each transmission channel the measurement analyser was configured to measure two adjacent channels whilst the EUT was in hopping mode. The spectrum analyser was configured with a resolution bandwidth and video bandwidth greater than 1% of the frequency span.

The analyser was set for a maximum hold scan to capture the profile of the signal. The peak points on the two adjacent channels were noted and the separation between them recorded.

To determine the occupied bandwidth, a resolution bandwidth of 10 kHz was used, which is greater than 1% of the 20 dB bandwidth. A video bandwidth of at least the same value was used.

The analyser was set for a maximum hold scan to capture the profile of the signal. The peak level was then determined, and a reference line was drawn 20 dB below the peak level.

The bandwidth was determined at the points where the 20 dB reference line intercepted the power envelope of the emission.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8.4. Average Time of Occupancy

The EUT and spectrum analyser was configured for radiated measurements, and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

First the maximum packet length was determined on the centre channel.

The measurement analyser was configured to the time domain mode by setting the span to zero with a sweep time sufficiently wide enough to measure one pulse.

The EUT was configured to operate in normal mode of operation. The pulse width of one transmission was then recorded. The measurement analyser was then configured in zero span (in the time domain) and the sweep time was set to 32 seconds (the closest allowable setting to 31.6 seconds). This 32 second period was determined by multiplying the number of channels the device operates over (79) by 0.4 seconds.

The number of transmissions within this period was noted and multiplied by the pulse width recorded earlier. This gives the maximum occupancy over 31.6 seconds.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8.5. Effective Isotropic Radiated Power (EIRP)

EIRP measurements were performed in accordance with the standard, against appropriate limits.

The EIRP was measured with the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2003 Clause 5.4. The transmitter was fitted with an integral antenna; therefore all radiated tests were performed with the unit operating into the integral antenna.

The level of the EIRP was measured using a spectrum analyser.

The test antenna was positioned in the horizontal polarity. The EUT was oriented in the X plane. The test antenna was then raised and lowered until a maximum peak was observed. The turntable was then rotated through 360 degrees and the maximum peak reading obtained. The height search was then repeated to take into consideration the new angular position of the turntable. The maximum reading observed was then recorded. This procedure was then repeated with the EUT oriented in the Y and Z planes. The highest reading taken in all 3 planes was recorded. The entire procedure was then repeated with the test antenna set in the vertical polarity.

Once the final amplitude (maximised) had been obtained, the EUT was substituted with a horn antenna. The centre of the substitution antenna was set to approximately the same centre location as the EUT. The substitution antenna was set to the horizontal polarity. The substitution antenna was matched into a signal generator using a 6 dB or greater attenuator. The signal generator was tuned to the EUT's frequency under test.

The test antenna was then raised and lowered to obtain a maximum reading on the spectrum analyser. The level of the signal generator output was then adjusted until the maximum recorded EUT level was observed. The signal generator level was noted. This procedure was repeated with both test antenna and substitution antenna vertically polarised. The EIRP was calculated as:-

$$\text{EIRP} = \text{Signal Generator Level} - \text{Cable Loss} + \text{Antenna Gain}$$

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Effective Isotropic Radiated Power (EIRP) (Continued)

Circumstances where the signal generator could not produce the desired a power substitution was performed with the signal generator set to 0 dBm. The radiated signal was maximised as previously described. The level indicated on the measuring receiver was noted. The delta between this level and the maximum level for the EUT was calculated and also noted. The EIRP of the signal generator was calculated using the above formulae. The recorded delta was added to the calculated EIRP to obtain the substituted EUT EIRP.

$$\text{Delta (dB)} = \text{EUT} - \text{SG}$$

where :

EUT = spectrum analyser indicated EUT raw level

SG = spectrum analyser indicated signal generator raw level

The signal generator actual EIRP is calculated as:

$$\text{EIRP SG} = \text{Signal Generator Level} - \text{Cable Loss} + \text{Antenna Gain}$$

The EUT EIRP is calculated as:

$$\text{EIRP EUT} = \text{EIRP SG} + \text{Delta}$$

The test equipment settings for EIRP measurements were as follows:

Receiver Function	Setting
Detector Type:	Peak
Mode:	Not applicable
Bandwidth:	1 MHz
Amplitude Range:	100 dB
Sweep Time:	Coupled

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

8.6. Band Edge Compliance of RF Radiated Emissions

The EUT and spectrum analyser were configured as for radiated measurements and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

To determine band edge compliance, the analyser resolution bandwidth was set to $\geq 1\%$ of the analyser span. The video bandwidth was set to be \geq to the resolution bandwidth. The sweep was set to auto and the detector to peak. The trace was set to max hold and a trace was produced.

A plot of the lower band edge of the allocated frequency band was produced. A marker was set to the level of the highest in band emission with a limit line set to 20 dB below this. The marker was then placed on the highest out of band emission (the specification states that either the band edge level must be measured or the highest out of band emission, whichever is the greater). The plots show that the highest out of band emission complies with the -20 dBc limit.

The above procedure was then repeated for the upper band edge except that, as the upper band edge fell on a restricted band edge (as defined in section 15.205(a)), the limit for the restricted band was applied instead of the -20 dBc limit, i.e. the general limits defined in section 15.209(a).

Final measurements were performed on the worst-case configuration as described in Part 15.31(i).

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
A028	9188-2 Horn Antenna 1-2 GHz	Eaton	91888-2	304	08 Jun 2006	36
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557	08 Jun 2006	36
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	09 Feb 2007	12
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405	Calibrate Before Use	-
A1830	N-Type Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100668	Calibrate Before Use	-
A253	WG 12 Microwave Horn	Flann Microwave	12240-20	128	17 Nov 2006	36
A254	WG 14 Microwave Horn	Flann Microwave	14240-20	139	17 Nov 2006	36
A255	WG 16 Microwave Horn	Flann Microwave	16240-20	519	17 Nov 2006	36
A256	WG 18 Microwave Horn	Flann Microwave	18240-20	400	17 Nov 2006	36
A436	WG 20 Microwave Horn Antenna	Flann	20240-20	330	24 Apr 2006	36
A490	30 to 1000 MHz, 50 W	Chase	CBL6111A	1590	25 Jan 2007	12
C1081	UFA210A Rosenberger Cable	Rosenberger	FA210A102 0M5050	28463-2	Calibrate Before Use	-
C1083	Cable	Rosenberger	001	2799	Calibrate Before Use	-
C1167	3m N-Type Cable	Rosenberger Micro-Coax	FA210A103 0007070	43190-01	Calibrate Before Use	-
C1268	7.5m BNC Coaxial Cable	Rosenberger	FA210A007 5008080	49356-1	Calibrate Before Use	-

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Test Equipment Used (Continued)

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
C151	Cable	Rosenberger	UFA210A-1-1181-70x70	None	Calibrate Before Use	-
C160	Cables	Rosenberger	UFA210A-1-1181-70x70	None	Calibrate Before Use	-
C348	Cable (was C527)	Rosenberger	UFA210A-1-1181-70x70	2993	Calibrate Before Use	-
C363	3m cable	Rosenberger	RG142	None	Calibrate Before Use	-
C461	DC to 18GHz Rosenberger	Rosenberger	UFA210A-1-1182-704704	98H0305	Calibrate Before Use	-
C468	10m Cable	Rosenberger	UFA210A-1-3937-504504	98L0440	Calibrate Before Use	-
C574	50 ohm co-ax	Rosenberger	UFA210A-1-788-50x50	97E0937	Calibrate Before Use	-
M023	ESVP Receiver	Rohde & Schwarz	ESVP	872 991/027	10 Apr 2006	12
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986_022	08 Sep 2006	12
M1263	EMI Test Receiver	Rohde & Schwarz	ESIB7	100265	25 Jan 2007	12
M1379	ESIB 7 Test Receiver	Rohde and Schwarz	ESIB7	100330	No Details	-
S201	3m & 10m OATS	RFI	1		18 Jul 2006	12
S202	3m OATS	RFI	2	S202-15011990	17 Nov 2006	12
S209	Emissions Screened Room	RFI	9		29 May 2006	12
S212	Emissions Screened Room	RFI	12		No Details	-

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

Appendix 2. Test Configuration Drawings

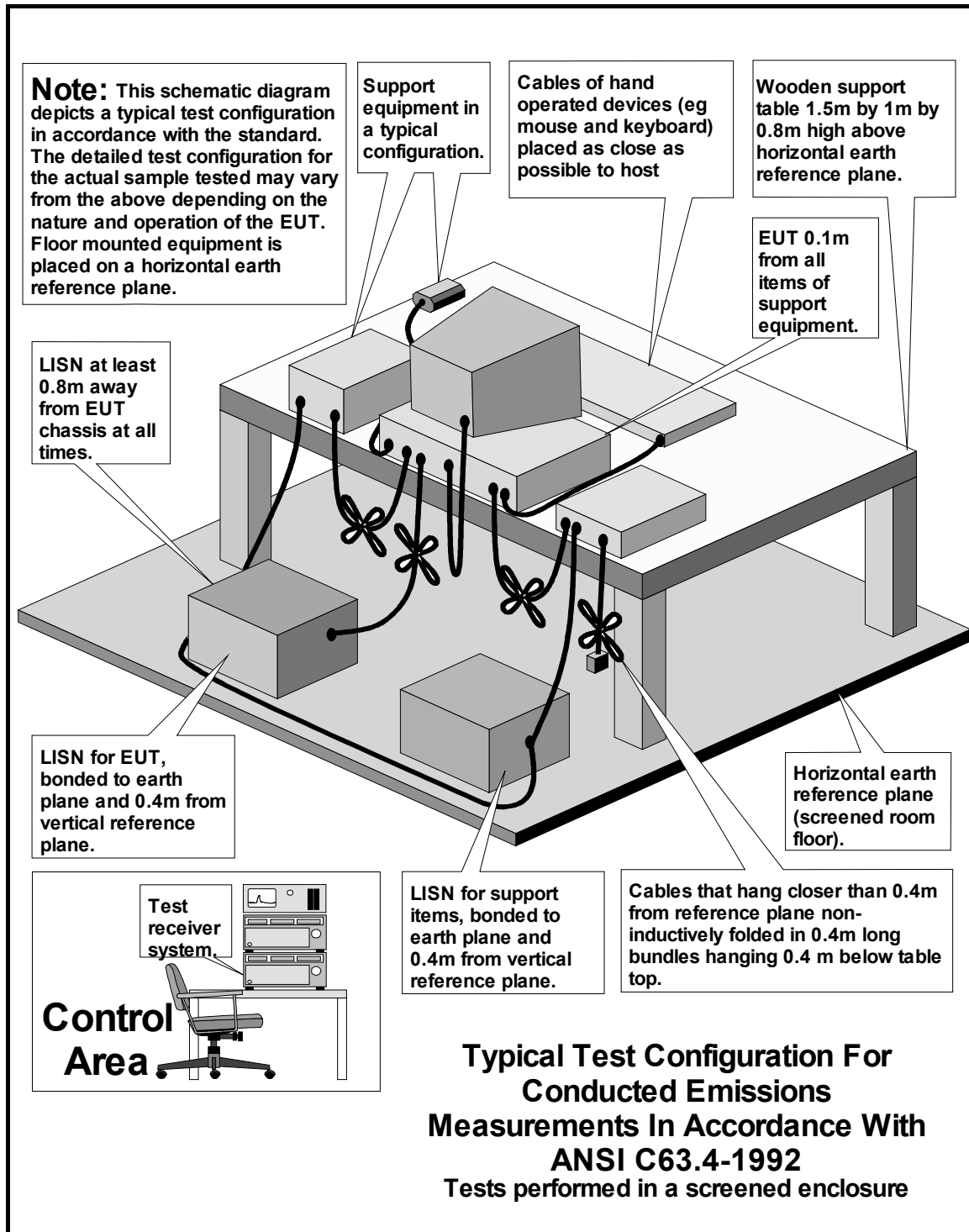
This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\48655JD12A\EMICON	Test configuration for measurement of conducted emissions.
DRG\48655JD12A\EMIRAD	Test configuration for measurement of radiated emissions.

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

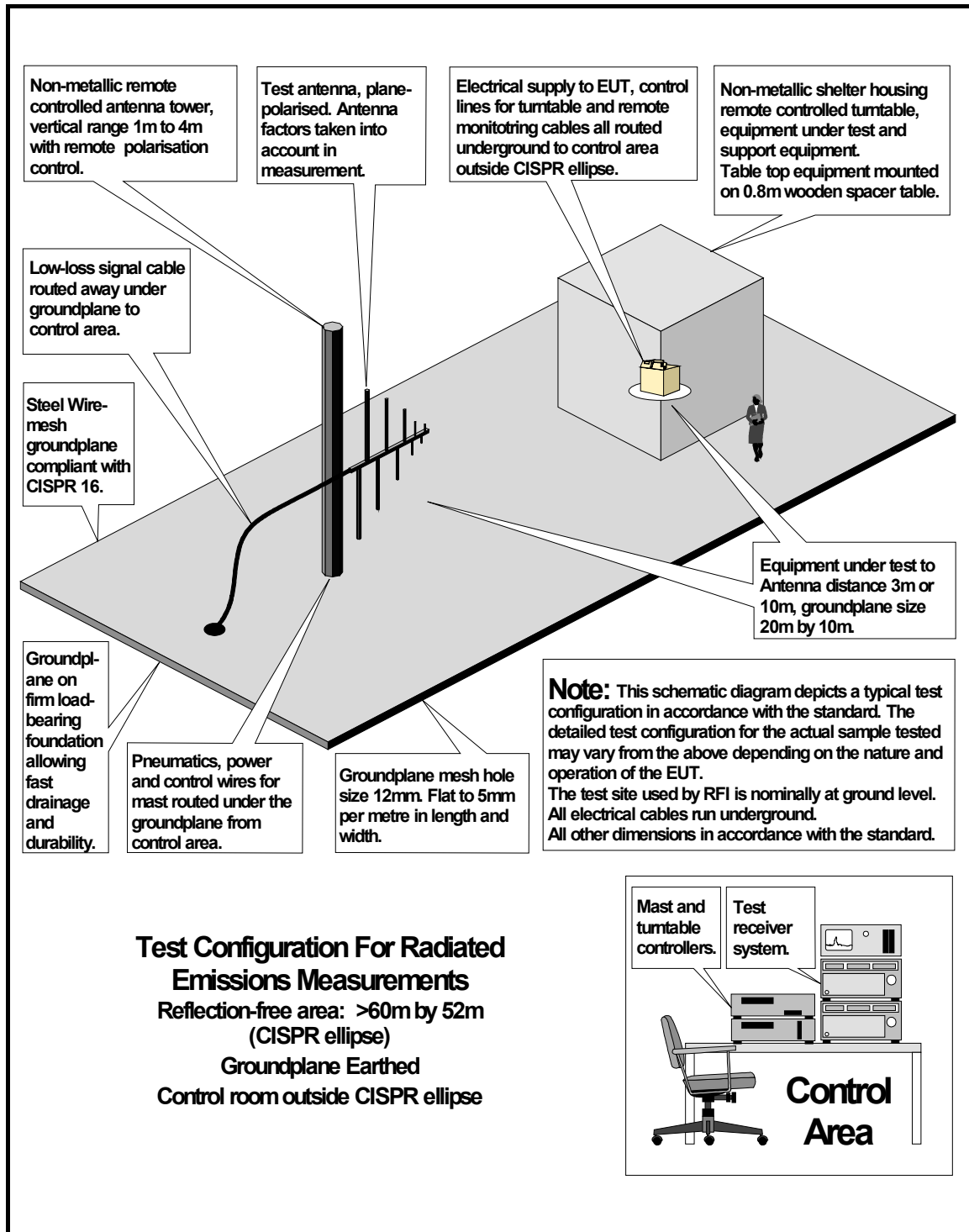
DRG\48655JD12A\EMICON



Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

DRG\48655JD12A\EMIRAD



RFI GLOBAL SERVICES LTD

Test Report

Serial No: RFI/RPTE1/RP48655JD12A

Page: 56 of 56

Issue Date: 24 April 2007

Test of: Datalogic S.p.A
Skorpio

To: FCC Part 15.247: 2006 (Subpart C)

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