MEASUREMENT AND TECHNICAL REPORT

DATALOGIC
Via Candini, 2
40012 Lippo di Calderara di Reno
Bologna, BG
Italy

DATE: 25 May 2005

This Report Concerns:	Original Grant: X	Class II Change:
Equipment Type:	Jet	
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?	Yes: **Defer until:**	No: X
Company Name **agrees to notify the Commission by:** **of the intended date of announcement of the product so that the grant can be issued on that date.**	N/A	
Transition Rules Request per 15.37?	Yes:	No: X*

(*) FCC Part 15, Paragraph(s) **15.107(a), 15.109(a), 15.209(a), 15.247(a), 15.247(b), and 15.247(c)**

Report Prepared by:

TÜV AMERICA, INC
10040 Mesa Rim Road
San Diego, CA 92121-2912
Phone: 858 678 1400
Fax: 858 546 0364

TÜV AMERICA

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1.0 GENERAL INFORMATION

1.1 Product Description

General Equipment Description -- *NOTE: This information will be input into your test report as shown below.*

EUT Description: Datalogic JET™ is a battery operated professional Portable Digital Assistant designed to capture, compute and communicate information.
Datalogic BLACKJET™ is the black cover version of Datalogic JET™.

EUT Name: JET 001-XXX: Bluetooth models
JET 501-XXX: Bluetooth, WiFi models
BLKJET 000-XXX: Batch models
BLKJET 001-XXX: Bluetooth models
BLKJET 500-XXX: WiFi models
BLKJET 501-XXX: Bluetooth, WiFi models

Model No.: -- Serial No.: --

Product Options: --

Configurations to be tested: --

EUT Specifications and Requirements

Length: 17,6 Width: 9 Height: 2,8 Weight: 424-463g

Power Requirements

Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)

Voltage: -- (If battery powered, make sure battery life is sufficient to complete testing.)

# of Phases: --

Current (Amps/phase(max)): -- Current (Amps/phase(nominal)): --

Other: Battery Operated Equipment

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.)

Small Business

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EUT Power Cable

☐ Permanent OR ☒ Removable Length (in meters): 1,5m
☐ Shielded OR ☐ Unshielded
☐ Not Applicable

EUT Interface Ports and Cables

Interface				Shielding								
Type	Analog	Digital	Qty	Yes	No	Type	Termination	Connector Type	Port Termination	Length (in meters)	Removable	Permanent
EXAMPLE: *RS232*	☐	■	*2*	■	☐	*Foil over braid*	*Coaxial*	*Metallized 9-pin D-Sub*	*Characteristic Impedance*	*6*	■	☐
RS232	☐	☒	1	☒	☐	--	--	--	--	2	☒	☐
USB	☐	☒	1	☒	☐	--	--	--	--	2	☒	☐

EUT Software.

Revision Level: --

Description: Operating System is Windows CE .NET.

Oscillator Frequencies

Frequency	***Derived Frequency***	***Component # / Location***	***Description of Use***
3,6863MHz	--	Main Board	CPU Clock
32768kHz	--	Main Board	Real Time Clock
4MHz	--	Main Board Laser version	Synchronization and data sampling
27MHz	--	Main Board Imager version	Synchronization and data sampling

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1.2 Related Submittal Grant

None

1.3 Tested System Details

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the following tests.

Test Summary					
Test Description	Paragraph Number	Summary of Results			Pass/Fail
		Low Channel	Mid Channel	High Channel	
Bandwidth	15.247(a)	696 kHz	695 kHz	694 kHz	Pass
Channel Separation	15.247(a)	--	978 kHz	--	Pass
Time of Occupancy	15.247(a)	--	0.31 seconds in a 31.6 second period	--	Pass
Number of Hopping Frequencies	15.247(a)	--	79	--	Pass
Peak Output Power	15.247(b)	.0000304 watts	.0000362 watts	.0000351 watts	Pass
Band Edge	15.247(c)	>20 dBc	>20 dBc	>20 dBc	Pass
Radiated Spurious Emissions – Restricted Bands (1GHz to 25GHz)	15.247(c) 15.209(a)	No emissions detected	No emissions detected	No emissions detected	Pass
Receiver Spurious Emissions	15.109(a)	No emissions detected	No emissions detected	No emissions detected	Pass
Conducted Emissions	15.107(a)	--	-0.4 dB @ 0.21 MHz	--	Pass

Testing was performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8-M1983.

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1.5 Test Facility

The open area test site and conducted measurement data were tested by:

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San Diego, CA 92121-2912
Phone: 858 678 1400
Fax: 858 546 0364

The Test Site Data and performance comply with ANSI C63.4 and are registered with the FCC, 7435 Oakland Mills Road, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

2.0 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was initially tested for FCC emissions in the following configuration:

See Test Setup Photos Exhibit

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Equipment Modifications

None

2.5 Configuration of Test System

See Test Setup Photos Exhibit

3.0 BANDWIDTH EQUIPMENT/DATA
CHANNEL SEPARATION EQUIPMENT/DATA
TIME OF OCCUPANCY EQUIPMENT/DATA
NUMBER OF HOPPING FREQUENCIES EQUIPMENT/DATA
PEAK OUTPUT POWER EQUIPMENT/DATA
BAND EDGE EQUIPMENT/DATA
RADIATED SPURIOUS EQUIPMENT/DATA
RECEIVER SPURIOUS EQUIPMENT/DATA
CONDUCTED EMISSIONS EQUIPMENT/DATA

Test Conditions: BANDWIDTH EQUIPMENT/DATA: FCC Part 15.247(a)
CHANNEL SEPARATION EQUIPMENT/DATA: FCC Part 15.247(a)
TIME OF OCCUPANCY EQUIPMENT/DATA: FCC Part 15.247(a)
NUMBER OF HOPPING FREQUENCIES EQUIPMENT/DATA: FCC Part 15.247(a)
PEAK OUTPUT POWER EQUIPMENT/DATA: FCC Part 15.247(b)
BAND EDGE EQUIPMENT/DATA: FCC Part 15.247(c)
RADIATED SPURIOUS EQUIPMENT/DATA: FCC Parts 15.209(a), 15.247(c)
RECEIVER SPURIOUS EQUIPMENT/DATA: FCC Part 15.109(a)
CONDUCTED EMISSIONS EQUIPMENT/DATA: FCC Part 15.107(a)

The following measurements were performed at the San Diego Testing Facility:

☐ **- Test not applicable**

■ - SR 3, Shielded Room, 12' x 20' x 8', Metal Chamber
■ - SR-5, Shielded Room, 16' x 28' x 15', Metal, Semi-Anechoic Chamber
■ - Roof (Small Open Area Test Site)

Test Equipment Used:

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Date Cal'ed
85662A	6495	Spectrum Analyzer	Hewlett Packard	2542A12099	02/05
E4440A	7500	Spectrum Analyzer	Hewlett Packard	MY43362168	12/04
AMF-5D-010180-35-10P	719	Preamplifier	Miteq	549460	VBU*
BRM50702	6815	2.4 to 2.5 GHz Band Reject Filter	Micro-Tronics	008	VBU*
FF6549-2	781	High Pass Filter	Sage	006	VBU*
FF6549-2	782	High Pass Filter	Sage	007	VBU*
FF6549-1	777	High Pass Filter	Sage	004	VBU*
3115	251	Double Ridge Guide Antenna	EMCO	2495	VBU*
CBL6111	6521	Bilog Antenna	Chase Electronics	1291	VBU*
T30RC	6225	Environmental Chamber	Tenney Environmental	27244-02	05/05
9252-50-R-24-BNC	458	LISN, 50 μH /250 μH/50 Ω/ 0.25 μF	Solar Electronics Co.	941719	07/04
ESHS 20	428	EMI Test Receiver	Rhode & Schwarz	837055/001	03/05
CAT-20	613	20 dB Attenuator	Mini-Circuits	--	VBU*

Remarks: One year calibration cycle for all test equipment and sites. (*) Verified Before Use.

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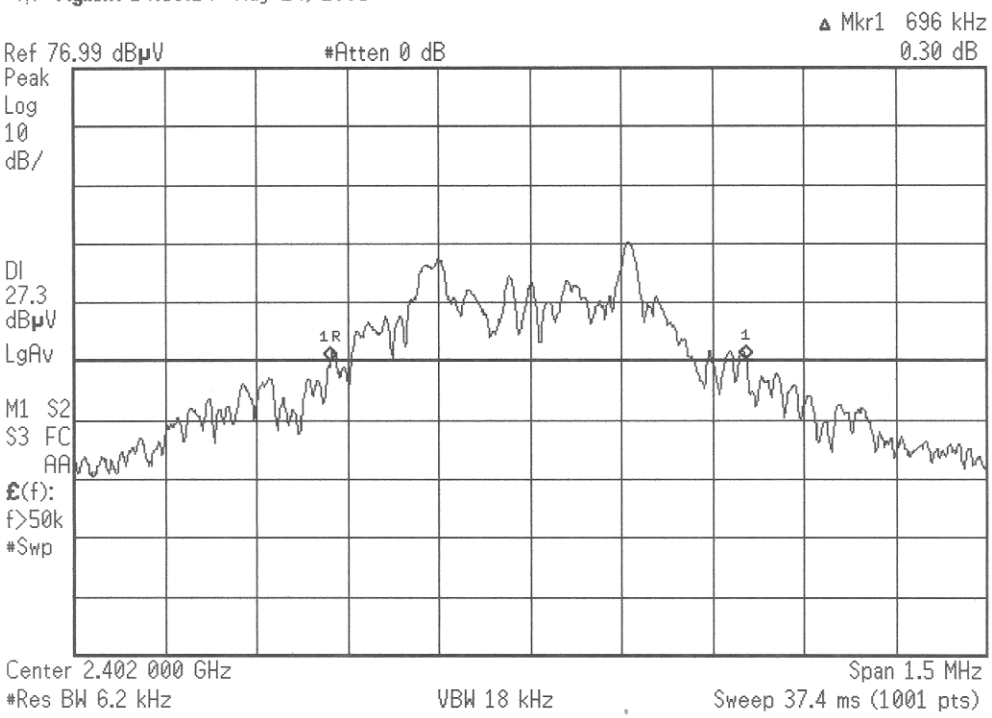
FCC Part 15.247(a) - Bandwidth

SC501899-Jet



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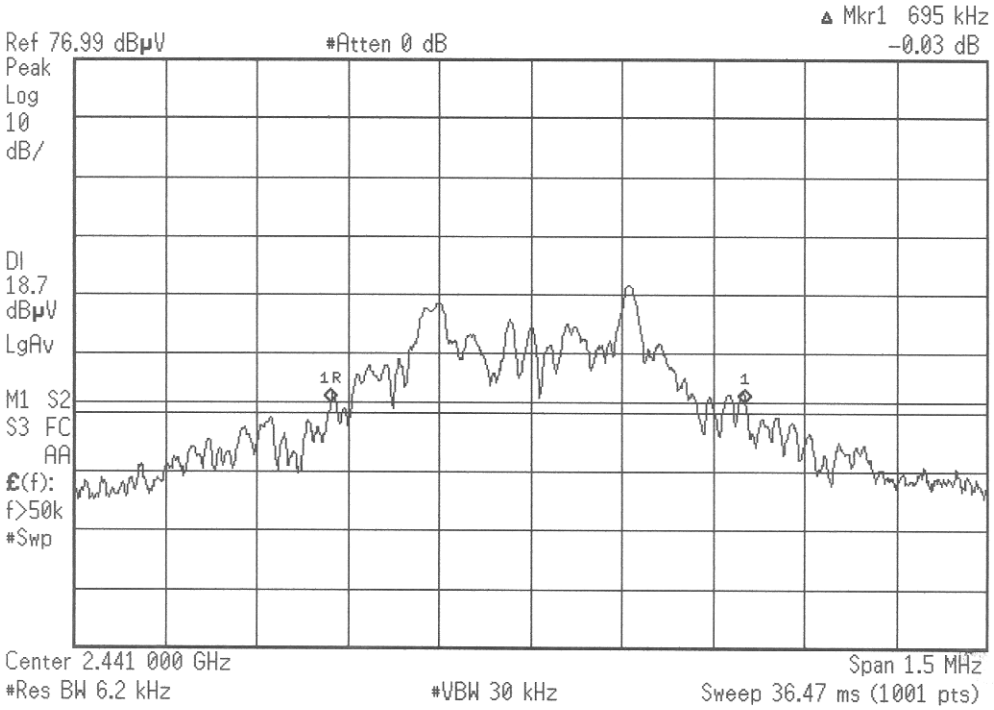
FCC Part 15.247(a) - Bandwidth

SC501899-Jet



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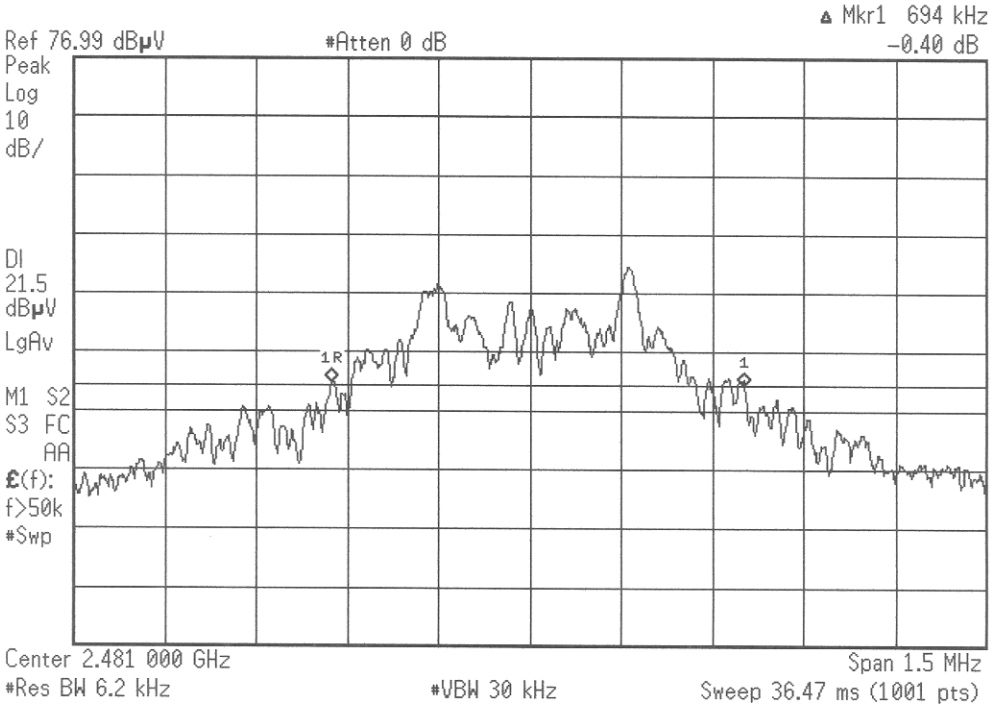
FCC Part 15.247(a) - Bandwidth

SC501899-Jcl-



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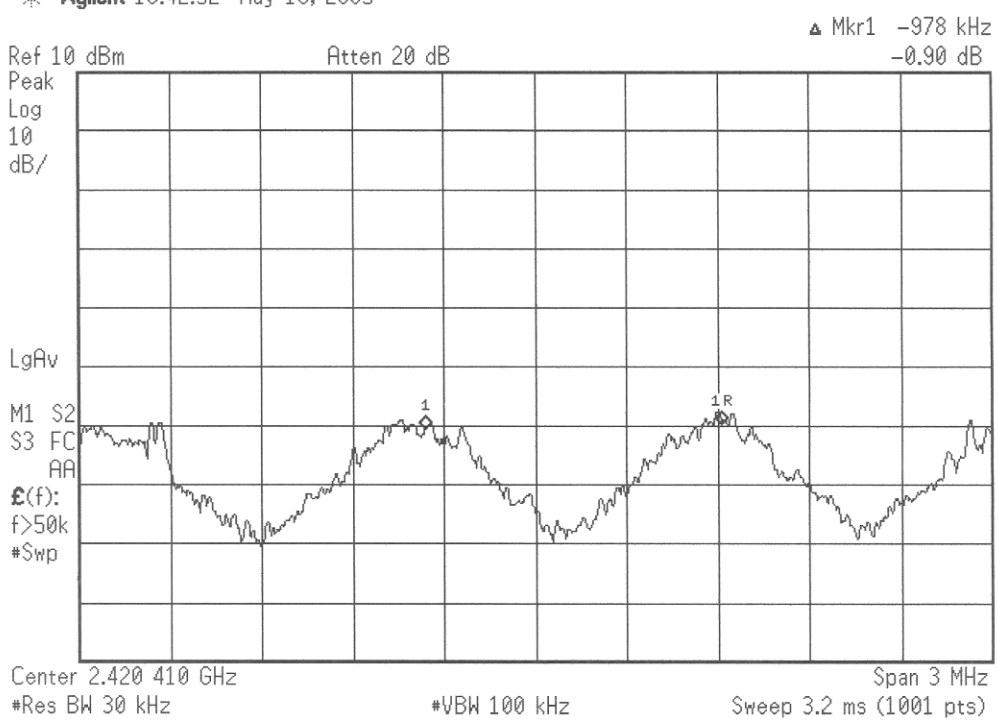
15.247(a) - Channel Separation

SC501899 – Jet



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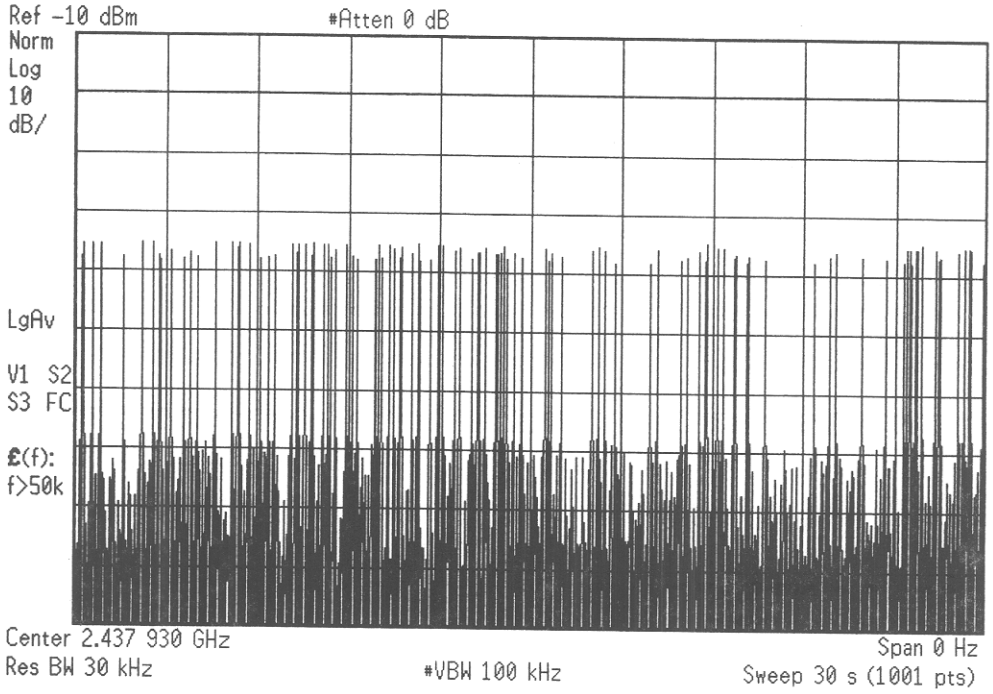
15.247(a) - Time of Occupancy

SC501899-5RT



15.247(a)(1)(ii) Sweep Time = Number of Hopping chan × 0.4 seconds
= 79 × 0.4 = 31.6 seconds

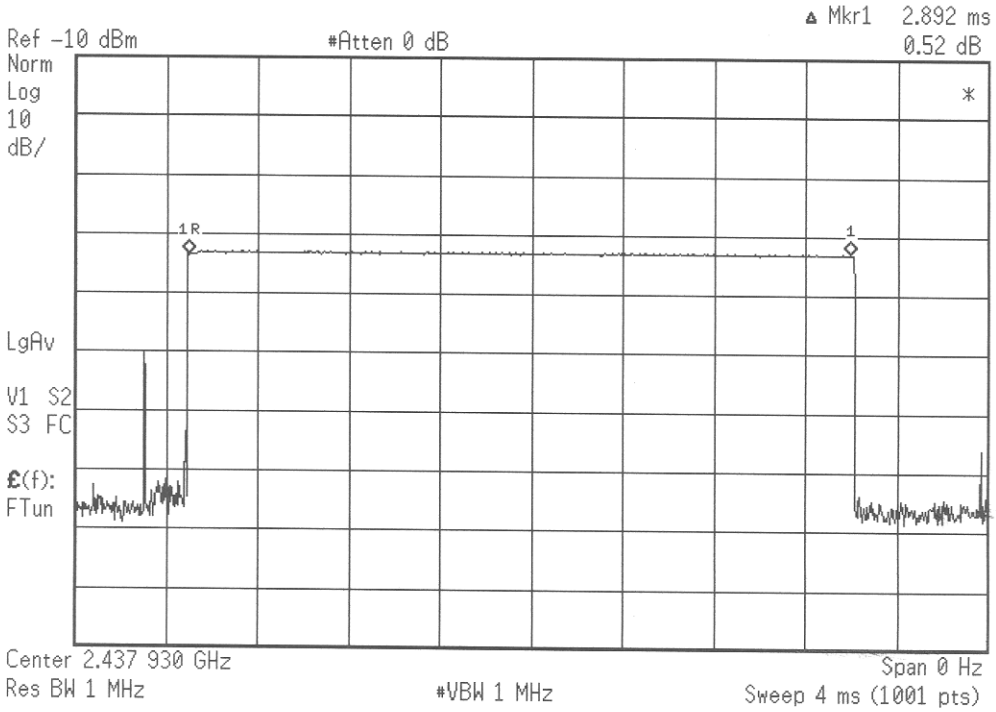
Therefore $\frac{31.6 \text{ seconds}}{30 \text{ seconds}} = 1.05$

Occupancy in 30 second Sweep = Number of Hops × Dwell Time
= 99 × 2.892 sec = 0.29 seconds

Occupancy in 31.6 second Sweep = 0.29 × 1.05 = 0.31 seconds

FCC Part 15.247(a) - Dwell Time

SC501899-JET



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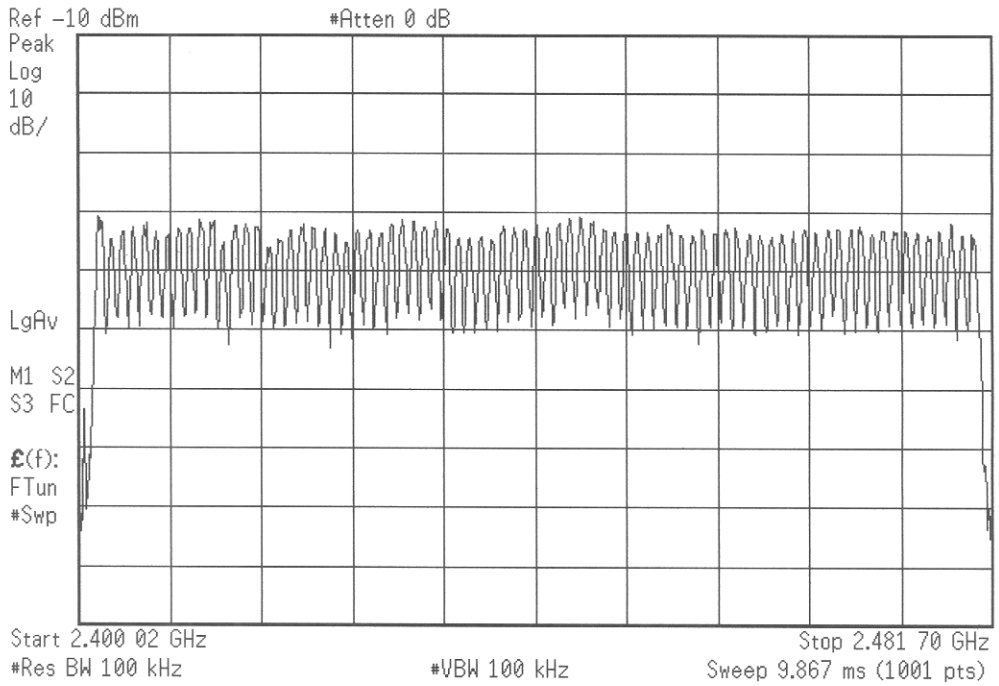
15.247(a) - Number of Hopping Frequencies

SC501899-JET



#79

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REPORT No: SC501899-Jet TESTER: Frank Harkins SPEC: FCC Part 15.247

CUSTOMER: Italia Data Logic TEST DIST: 3 Meters

E U T: Jet-Net TEST SITE: Roof

EUT MODE: Tx Chan 0, 39, 79 BICONICAL: N/A

DATE: April 25, 2005 LOG: N/A

NOTES: Power Output Levels OTHER: 251
above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG
below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG
CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

v.beta1a

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CF (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotation	Antenna Height	Notes
2402	47.5	23	45.7	22.9	34.5884	**82.09**	**57.6**					0	1	Fundamental low channel
2441.04	46.1	22.5	44.5	22.4	34.7524	**80.85**	**57.3**					0	1	Fundamental Mid Channel
2481.02	45.8	22.7	44.7	22.5	34.9203	**80.72**	**57.6**					0	1	Fundamental High Channel

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Radiated RF Power Output

Report No: - SC501899

Company: - Data Logic

Equipment: - Jet-Net

CFR 47 Part 15.247 (b)

Tester: - Frank Harkins

Date: - April 25th

Note: - Conversion from Field Strength to EIRP is equal to X dBuV/m minus 95.267dB

Channel	Field Strength dBuV/m	3m Derived Path Loss dB	Calculated Output Power dBm	Calculated Power Watts	Limit Watts	Complies
Low	80.09	-95.267	-15.177	0.0000304	1	Yes
Mid	80.85	-95.267	-14.417	0.0000362	1	Yes
High	80.72	-95.267	-14.547	0.0000351	1	Yes

Remarks: - Due to the EUT having an integral antenna fitted, all these transmitted channels were plotted at 3m.

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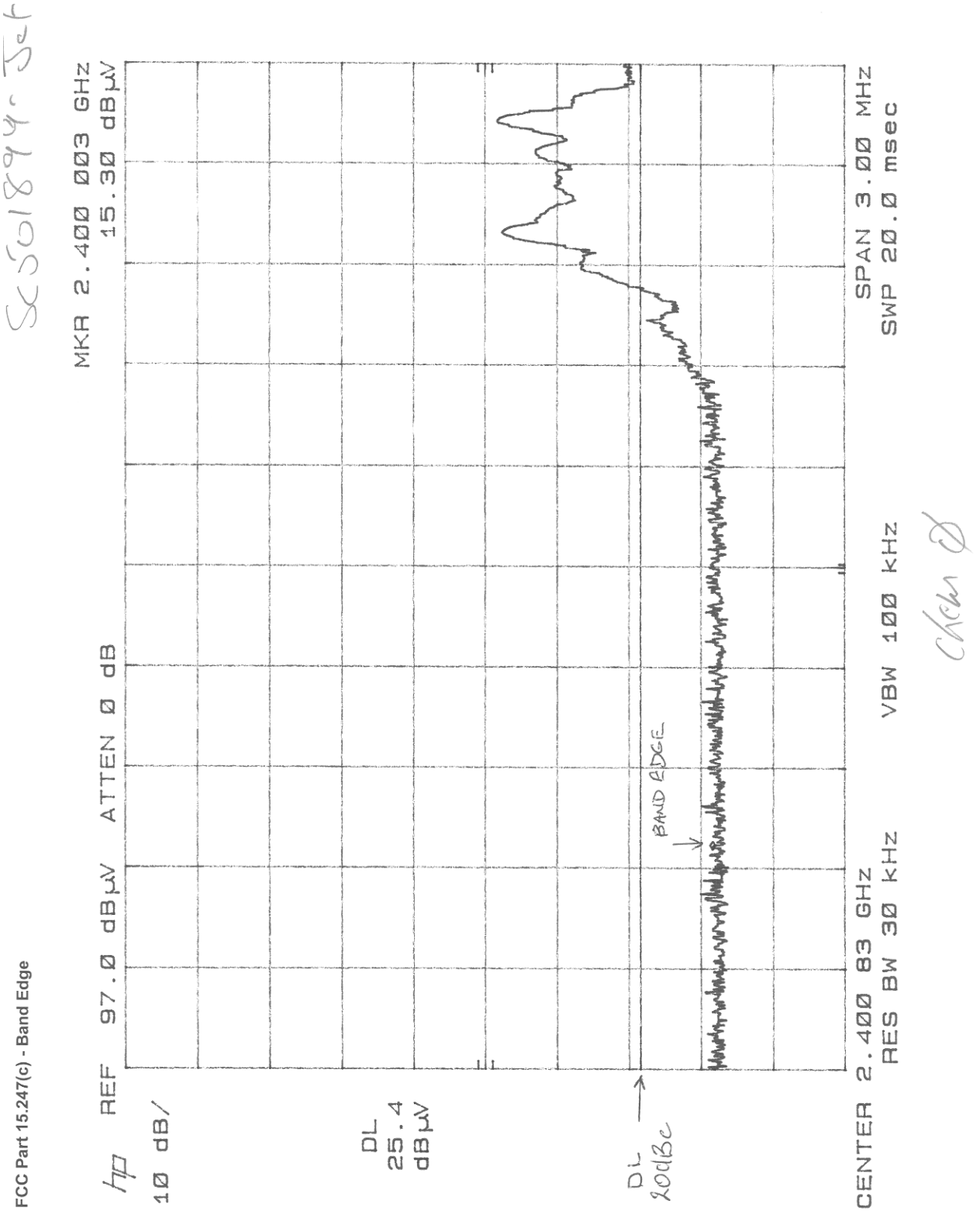
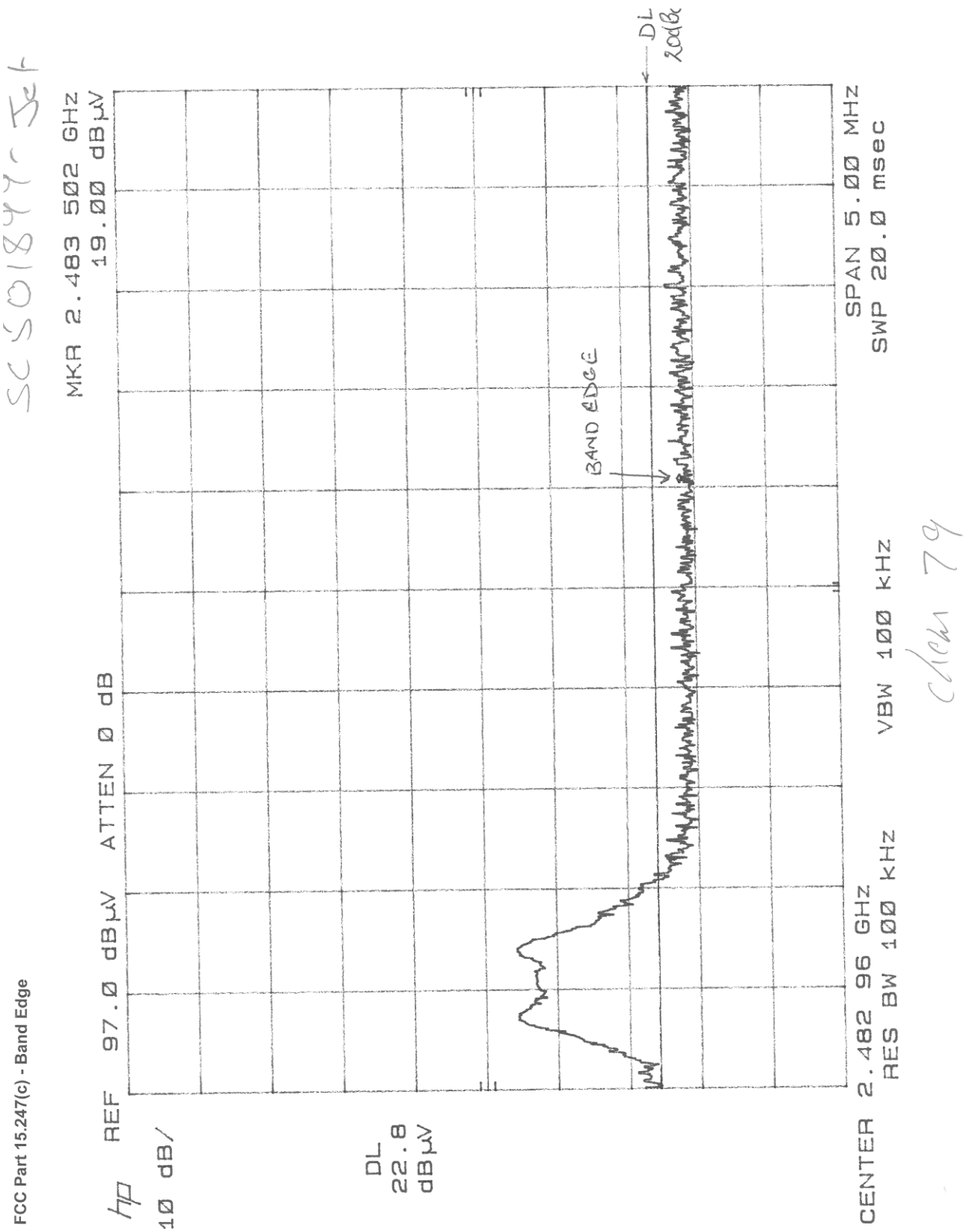


FCC Part 15.247(c) - Band Edge



FCC Part 15.247(c) - Band Edge

REPORT No: SC501899-Jet TESTER: Frank Harkins SPEC: FCC Part 15 para 15.109(a)

CUSTOMER: Data Logic TEST DIST: 3 Meters

E U T: Jet-Net TEST SITE: Roof

EUT MODE: Receive Chan 0,39,79. BICONICAL: N/A

DATE: May 9, 2005 LOG: N/A

NOTES: **no emission found 30MHz to 2300MHz** OTHER: 251
above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG
below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG
CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

v.beta1a

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CF (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotation	Antenna Height	Notes
2316.25	49.5	35.3	45.6	35.2	-5.24525	**44.25**	**30.1**	74	54	-29.7	-23.9			Low chan
4632.5	44.3	33.4	44	33.3	-0.729	**43.57**	**32.7**	74	54	-30.4	-21.3			ambient
6948.75	41.6	30.7	43.3	32.9	7.00525	**50.31**	**39.9**	74	54	-23.7	-14.1			ambient
9265	43.6	32.8	43.3	32.9	10.199	**53.8**	**43.1**	74	54	-20.2	-10.9			ambient
11581.25	39.8	29.2	39.7	29.2	13.135	**52.94**	**42.3**	74	54	-21.1	-11.7			ambient
2354.85	43.3	33.2	43.7	33.2	-5.06769	**38.63**	**28.1**	74	54	-35.4	-25.9			mid chan
7064.55	42.6	32.2	42.8	32.2	7.36783	**50.17**	**39.6**	74	54	-23.8	-14.4			ambient
4709.7	44.5	34	45.3	34.1	-0.51284	**44.79**	**33.6**	74	54	-29.2	-20.4			ambient
9419.4	44.4	33.2	44.2	33.2	9.67404	**54.07**	**42.9**	74	54	-19.9	-11.1			ambient
11774.25	42	31.2	41.7	31.2	12.9806	**54.98**	**44.2**	74	54	-19	-9.82			ambient
2391.75	43.4	33.5	45	33.5	-4.89795	**40.1**	**28.6**	74	54	-33.9	-25.4			high chan
4783.5	42.8	32.6	43.6	32.5	-0.3062	**43.29**	**32.3**	74	54	-30.7	-21.7			ambient
7175.25	44	33	44	33	7.65565	**51.66**	**40.7**	74	54	-22.3	-13.3			ambient
9567	45.1	32.8	46	31.9	9.467	**55.47**	**42.3**	74	54	-18.5	-11.7			ambient
11958.75	41	31	44.5	31	12.833	**57.33**	**43.8**	74	54	-16.7	-10.2			ambient

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REPORT No: SC501899-Jet TESTER: Frank Harkins SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Italia Data Logic TEST DIST: 3 Meters

E U T: Jet-Net TEST SITE: Roof

EUT MODE: TX chan 0,39,79 BICONICAL: N/A

DATE: April 25, 2005 LOG: 244

NOTES: **no emissions found 30MHz to 2400MHz** OTHER: 251
above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG
below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG
CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

v.beta1a

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CF (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotation	Antenna Height	Notes
4804	50.3	35.2	60	48.2	-0.388	**59.61**	**47.8**	74	54	-14.4	-6.19			fundamental low chan
12010	40.6	30.1	42.1	30.2	12.644	**54.74**	**42.8**	74	54	-19.3	-11.2			noise floor
														noise floor
4882.08	45.4	34.4	44.9	34.5	-0.15376	**45.25**	**34.3**	74	54	-28.8	-19.7			fundamental mid chan
7323.12	48.9	37.2	51.3	38.7	7.94011	**59.24**	**46.6**	74	54	-14.8	-7.36			noise floor
12205.2	45.6	34.3	43.8	34.2	13.5029	**59.1**	**47.8**	74	54	-14.9	-6.2			noise floor
														noise floor
4962.04	42.7	32.4	63.4	49	0.08612	**63.49**	**49.1**	74	54	-10.5	-4.91			fundamental high chan
7443.06	50.7	37.4	55	39.3	8.25196	**63.25**	**47.6**	74	54	-10.7	-6.45			noise floor
12405.1	44.1	34.4	44.5	34.3	14.3824	**58.88**	**48.8**	74	54	-15.1	-5.22			noise floor
														noise floor
2483.5	29.8	20	35.6	20.3	-4.6726	**30.93**	**15.6**	74	54	-43.1	-38.4			Bandedge- noise floor

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TUV America
Conducted Emissions

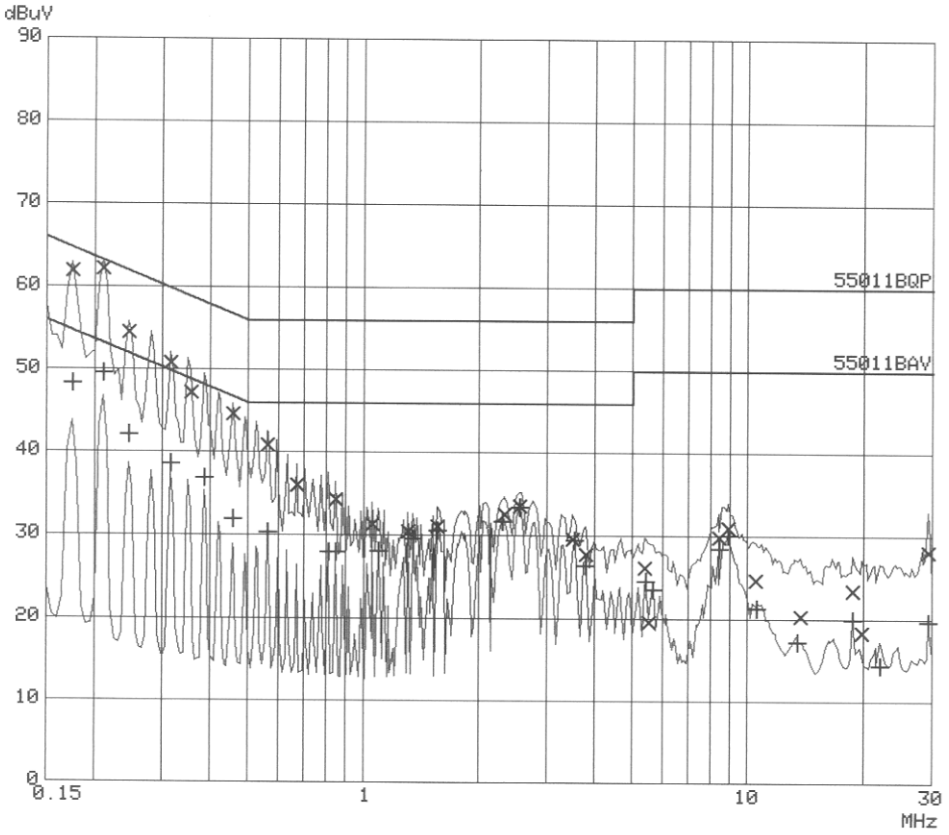
EUT:	Jet
Manuf:	Data Logic
Op Cond:	Transmit Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 1
	SC501899
Date:	09. May 05 12:03

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	20ms	AUTO	LN OFF	60dB

Transducer No.	Start	Stop	Name
1	10k	30M	20dBLISN

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 35dB



TUV America
Conducted Emissions

EUT:	Jet
Manuf:	Data Logic
Op Cond:	Transmit Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 1 SC501899
Date:	09. May 05 12:03

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
0.17500	61.9	64.7
0.21000	62.2	63.2
0.24500	54.5	61.9
0.31500	50.8	59.8
0.35500	47.1	58.8
0.45500	44.5	56.8
0.56000	40.9	56.0
0.67000	36.0	56.0
0.84500	34.4	56.0
1.05500	31.3	56.0
1.30500	30.5	56.0
1.55000	31.1	56.0
2.33000	32.5	56.0
2.54000	33.6	56.0
3.49500	29.6	56.0
3.77500	27.8	56.0
5.40500	26.1	60.0
5.54000	19.6	60.0
8.41000	29.9	60.0
8.90500	30.9	60.0
10.46000	24.7	60.0
13.71000	20.3	60.0
18.66000	23.4	60.0
19.76000	18.3	60.0
29.31500	28.1	60.0

Frequency MHz	AV Level dBuV	AV Limit dBuV
0.17500	48.3	54.7
0.21000	49.5	53.2
0.24500	42.1	51.9
0.31500	38.7	49.8
0.38500	36.9	48.1
0.45500	31.9	46.8
0.56000	30.3	46.0
0.81000	28.0	46.0
0.84500	28.0	46.0
1.09000	28.1	46.0
1.34000	29.5	46.0
1.55000	30.6	46.0
2.29000	31.7	46.0

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2.54000	33.4	46.0
3.53000	29.4	46.0
3.77500	26.3	46.0
5.44000	24.5	50.0
5.65000	23.6	50.0
8.41000	28.5	50.0
8.90500	30.1	50.0
10.56500	21.3	50.0
13.46500	17.2	50.0
18.66000	19.9	50.0
21.99000	14.4	50.0
29.31000	19.7	50.0

* limit exceeded

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TUV America
Conducted Emissions

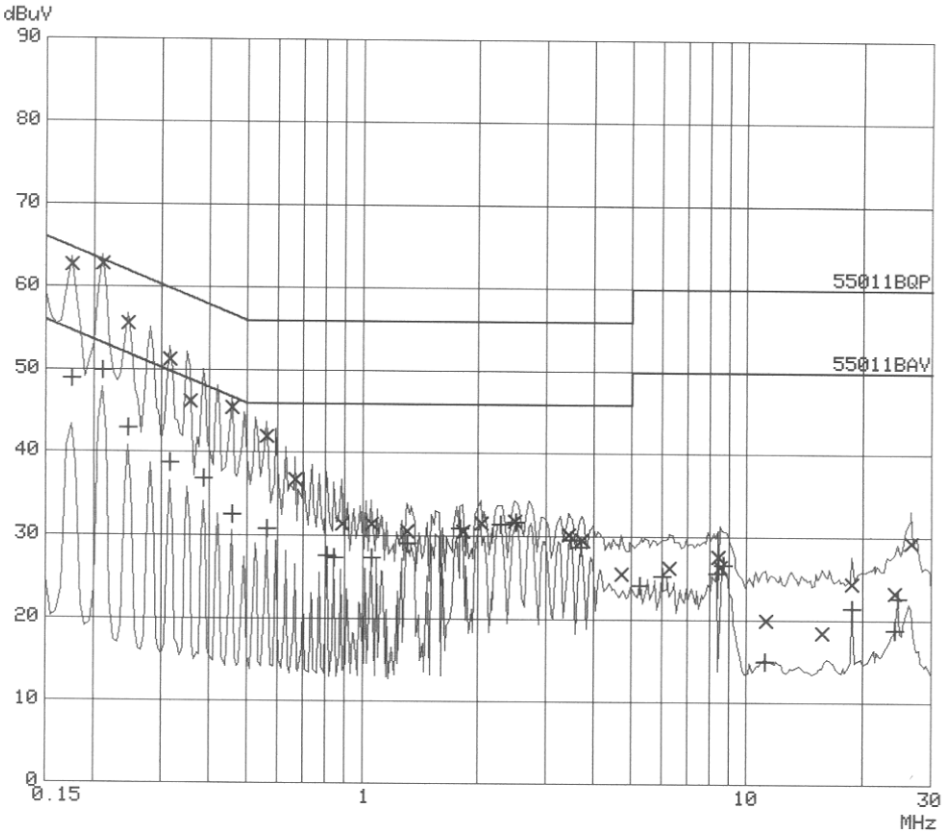
EUT: Jet
Manuf: Data Logic
Op Cond: Transmit Chan 2
Operator: Frank Harkins
Test Spec: EN55011
Comment: 115VAC 60Hz Line 2
SC501899
Date: 09. May 05 11:42

Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	20ms	AUTO	LN OFF	60dB

Transducer No.	Start	Stop	Name
1	10k	30M	20dBLISN

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 35dB



TUV America
Conducted Emissions

EUT:	Jet
Manuf:	Data Logic
Op Cond:	Transmit Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 2 SC501899
Date:	09. May 05 11:42

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
0.17500	62.7	64.7
0.21000	62.8	63.2
0.24500	55.6	61.9
0.31500	51.2	59.8
0.35500	46.2	58.8
0.45500	45.4	56.8
0.56000	41.9	56.0
0.66500	36.8	56.0
0.88000	31.4	56.0
1.05000	31.4	56.0
1.30000	30.6	56.0
1.82500	30.6	56.0
2.03500	31.6	56.0
2.49000	31.8	56.0
3.44000	30.3	56.0
3.72500	29.7	56.0
4.70500	25.5	56.0
6.29000	26.2	60.0
8.40000	27.7	60.0
8.54000	26.4	60.0
11.18500	19.9	60.0
15.69000	18.5	60.0
18.66000	24.4	60.0
24.17500	23.3	60.0
26.66500	29.4	60.0

Frequency MHz	AV Level dBuV	AV Limit dBuV
0.17500	48.9	54.7
0.21000	50.0	53.2
0.24500	43.0	51.9
0.31500	38.7	49.8
0.38500	36.9	48.1
0.45500	32.6	46.8
0.56000	30.8	46.0
0.80500	27.6	46.0
0.84000	27.4	46.0
1.05000	27.4	46.0
1.30000	29.1	46.0
1.79000	31.0	46.0
2.28000	31.4	46.0

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2.49500	31.7	46.0
3.47500	29.6	46.0
3.69000	28.8	46.0
5.27000	24.2	50.0
6.01000	25.3	50.0
8.36500	25.6	50.0
8.65000	26.6	50.0
11.11500	15.0	50.0
18.66000	21.4	50.0
24.17500	18.8	50.0
24.57500	22.7	50.0

* limit exceeded

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TUV America
Conducted Emissions

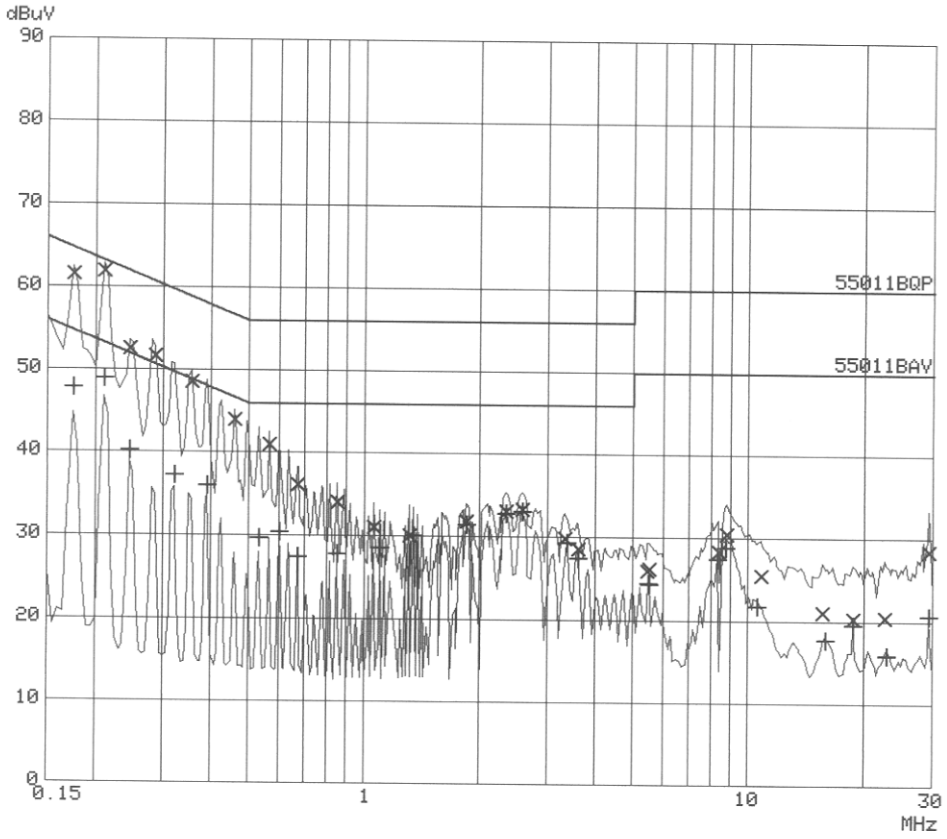
EUT:	Jet
Manuf:	Data Logic
Op Cond:	Receive Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 1
	SC501899
Date:	09. May 05 12:21

Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	20ms	AUTO	LN OFF	60dB

Transducer No.	Start	Stop	Name
1	10k	30M	20dBLISN

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 35dB



TUV America
Conducted Emissions

EUT:	Jet
Manuf:	Data Logic
Op Cond:	Receive Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 1 SC501899
Date:	09. May 05 12:21

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
0.17500	61.5	64.7
0.21000	61.9	63.2
0.24500	52.5	61.9
0.28500	51.6	60.7
0.35500	48.6	58.8
0.46000	43.9	56.7
0.56500	41.0	56.0
0.67000	36.2	56.0
0.85000	34.1	56.0
1.06000	31.1	56.0
1.31000	30.1	56.0
1.84000	31.8	56.0
2.33500	33.1	56.0
2.58500	33.3	56.0
3.33000	29.8	56.0
3.61000	28.7	56.0
5.45500	26.0	60.0
5.52500	26.2	60.0
8.36500	28.3	60.0
8.78500	30.5	60.0
10.77500	25.5	60.0
15.60000	21.1	60.0
18.66500	20.3	60.0
22.64500	20.4	60.0
29.31500	28.5	60.0

Frequency MHz	AV Level dBuV	AV Limit dBuV
0.17500	47.8	54.7
0.21000	48.9	53.2
0.24500	40.3	51.9
0.32000	37.3	49.7
0.39000	36.0	48.0
0.53000	29.7	46.0
0.60000	30.5	46.0
0.67000	27.5	46.0
0.85000	27.9	46.0
1.09500	28.6	46.0
1.34500	30.1	46.0
1.84000	31.4	46.0
2.33500	32.9	46.0

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Date: 09. May 05 12:21

2.58500	33.1	46.0
3.36500	29.4	46.0
3.61000	27.5	46.0
5.49000	24.6	50.0
5.52500	24.4	50.0
8.29000	27.4	50.0
8.75000	28.8	50.0
10.56000	21.8	50.0
15.88000	17.8	50.0
18.66000	19.6	50.0
22.86000	15.8	50.0
29.31500	20.7	50.0

* limit exceeded

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TUV America
Conducted Emissions

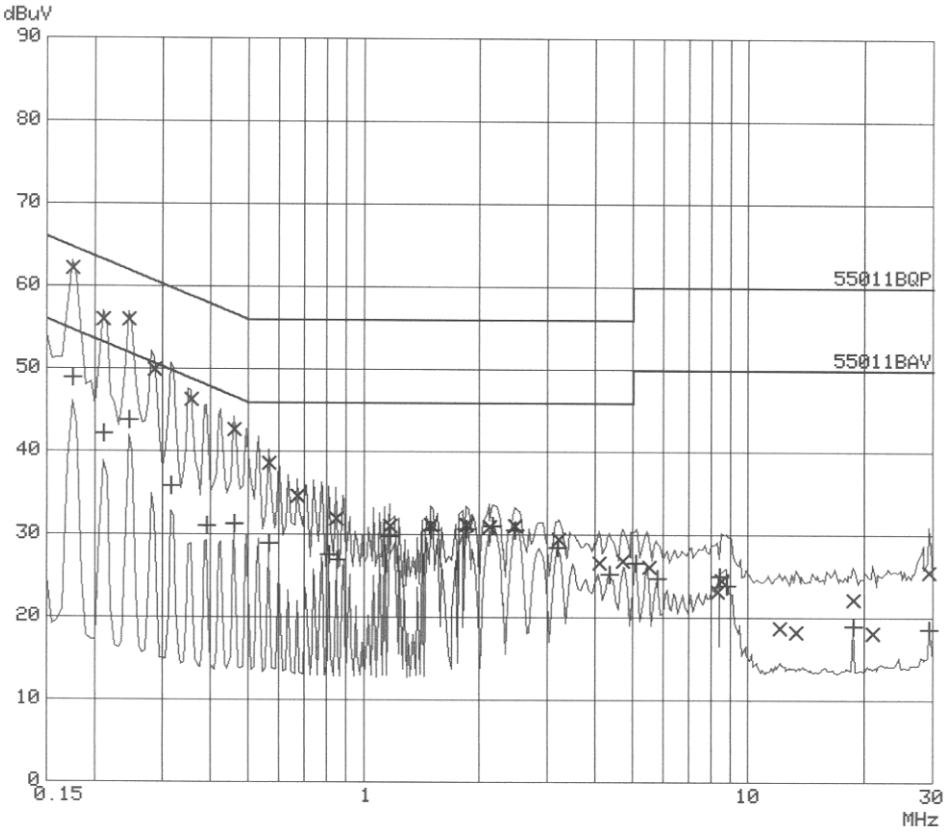
EUT: Jet
Manuf: Data Logic
Op Cond: Receive Chan 2
Operator: Frank Harkins
Test Spec: EN55011
Comment: 115VAC 60Hz Line 2
SC501899
Date: 09. May 05 12:36

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	20ms	AUTO	LN OFF	60dB

Transducer No.	Start	Stop	Name
1	10k	30M	20dBLISN

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 35dB



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TUV America
Conducted Emissions

EUT:	Jet
Manuf:	Data Logic
Op Cond:	Receive Chan 2
Operator:	Frank Harkins
Test Spec:	EN55011
Comment:	115VAC 60Hz Line 2 SC501899
Date:	09. May 05 12:36

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
0.17500	62.1	64.7
0.21000	56.0	63.2
0.24500	56.0	61.9
0.28500	49.9	60.7
0.35500	46.3	58.8
0.46000	42.7	56.7
0.56500	38.6	56.0
0.67000	34.7	56.0
0.84500	32.0	56.0
1.16500	31.1	56.0
1.48500	31.2	56.0
1.84000	31.2	56.0
2.12000	31.0	56.0
2.47500	31.1	56.0
3.22000	29.5	56.0
4.10500	26.6	56.0
4.70500	26.8	56.0
5.52000	26.2	60.0
8.31500	23.2	60.0
8.49500	24.5	60.0
12.08000	18.7	60.0
13.29500	18.2	60.0
18.66000	22.2	60.0
20.98500	18.1	60.0
29.33500	25.5	60.0

Frequency MHz	AV Level dBuV	AV Limit dBuV
0.17500	48.9	54.7
0.21000	42.3	53.2
0.24500	43.8	51.9
0.31500	35.9	49.8
0.39000	31.1	48.0
0.46000	31.4	46.7
0.56500	29.0	46.0
0.81000	27.6	46.0
0.85000	27.0	46.0
1.16500	29.8	46.0
1.48500	30.6	46.0
1.84000	30.8	46.0
2.15500	31.1	46.0

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Date: 09. May 05 12:36

2.47500	30.6	46.0
3.18500	28.5	46.0
4.35000	25.2	46.0
5.09500	26.6	50.0
5.80500	24.8	50.0
8.39000	25.0	50.0
8.78000	23.9	50.0
18.66000	18.9	50.0
29.29000	18.5	50.0

* limit exceeded

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4.0 ATTESTATION STATEMENT

GENERAL REMARKS:

SUMMARY:

All tests were performed per CFR 47, Part(s) 15.107(a), 15.109(a), 15.209(a), 15.247(a), 15.247(b), and 15.247(c)

■ - Performed

The Equipment Under Test

■ - **Fulfills** the requirements of CFR 47, Part(s) 15.107(a), 15.109(a), 15.209(a), 15.247(a), 15.247(b), and 15.247(c)

Testing Start Date: 18 April 2005

Testing End Date: 24 May 2005

- TÜV AMERICA, INC. -

Responsible Engineer:

David Gray
(EMC Engineer in Charge)

Responsible Engineer:

Frank Harkins
(EMC Engineer)

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