

Model: MCSI Trak Mux
Date: 08-06-2003

Addendum A1: Appendix A
WLI Project: 20031817
FCC ID: QJFTRAKMUX

APPENDIX A

Addendum A1

Test Method in Accordance with § 15.225 (a)

Model: MCSI Trak Mux
Date: 08-06-2003

Addendum A1: Appendix A
Test Results
WLI Project: 20031817
FCC ID: QJFTRAKMUX

Type: Inductive Reader
Serial No.: Prototype
Applicant: Micro Concepts, Inc.
Test site: Open field Test site (with Ground Plane)
Distance: 30 Meter for carrier (no ground plane)
10 Meter for spwrs as noted

Small Loop

Maximum allowable level = 10,000 μ v/m @ 13,560 MHz

Freq- uency MHz	Detector	Antenna Polariz- ation	Analyzer Reading (db μ V)	Correction Factor	Field Strength (db μ v/m)	Limit (db μ v/m)	Margin Db	Dist- ance Meter
13.553	QP		9.1	None	9.1	29.5		10
13.560	QP	N/A	39	None	39.1	80.0	40.9	30
13.567	QP	N/A	11.1	None	11.1	29.5		10
27.120	QP	N/A	19.1	None	19.1	29.5	10.4	10

Large Loop

Maximum allowable level = 10,000 μ v/m @ 13,560 MHz

Freq- uency MHz	Detector	Antenna Polariz- ation	Analyze r Reading (db μ V)	Correction Factor	Field Strength (db μ v/m)	Limit (db μ v/m)	Margi n Db	Dist- ance Meter
13.553	QP		10.3	None	10.2	29.5		10
13.560	QP	N/A	43.8	None	43.9	80.0	36.1	30
13.567	QP	N/A	12.3	None	12.5	29.5		10
27.120	QP	N/A	22.1	None	22.2	29.5	7.3	10

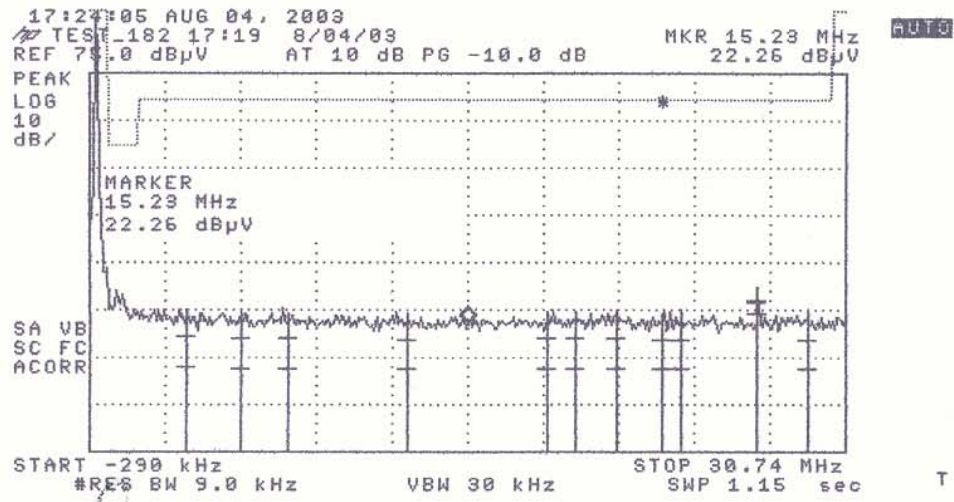
***** = No emissions above noise floor detected**

Test Equipment Used:
8591E 11/03
8640B 10/03
Loop Antenna HFH2-Z2 R&S 10/03 ANSI 63.5

Note: HFH2-Z2 is direct reading on the 8591E

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AUTO

#	FREQUENCY (MHz)	PEAK (LIM)	QP (LIM)	AVG (LIM)
1	27.119	29.8 -39.7	26.9 -42.6	24.3 -45.2
2	7.843	24.4 -45.1	19.0 -50.5	12.8 -56.7
3	3.691	24.8 -44.7	19.4 -50.1	13.1 -56.4
4	18.474	24.6 -44.9	18.8 -50.7	12.5 -57.0
5	24.006	25.1 -44.4	18.8 -50.7	12.5 -57.0
6	21.329	24.8 -44.7	18.8 -50.7	12.5 -57.0
7	12.778	24.3 -45.2	18.8 -50.8	12.6 -56.9
8	23.216	24.4 -45.2	18.6 -50.9	12.5 -57.0
9	5.901	24.8 -44.7	19.2 -50.3	12.8 -56.7
10	19.650	24.4 -45.1	18.8 -50.7	12.6 -56.9
11	27.120	29.5 -40.0	26.8 -42.7	24.3 -45.3
12	29.217	25.0 -44.5	18.8 -50.8	12.5 -57.0

MARGIN SET TO 50.0 DB BELOW LIMIT LINE
TEST_182 17:19 8/04/03 T

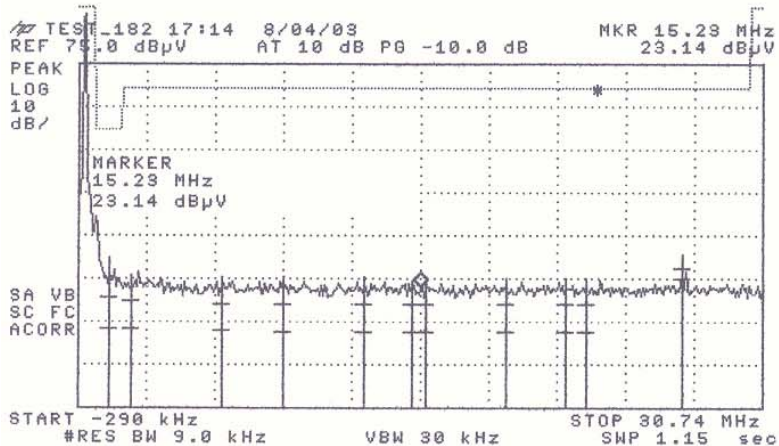
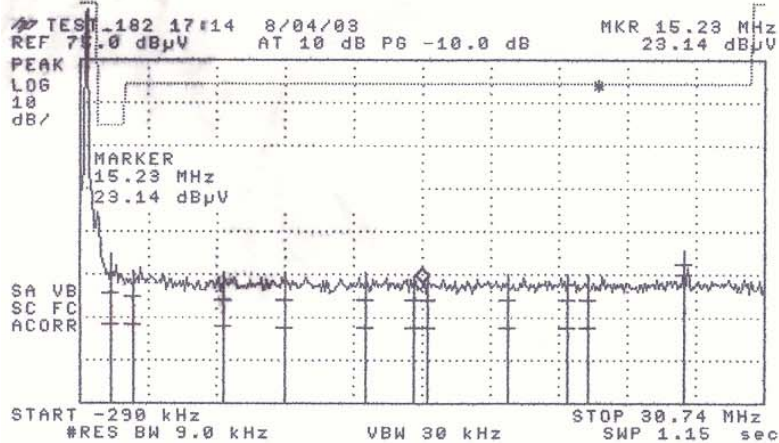
Micro Concept
Line 1
Fcc class A

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#	FREQUENCY (MHz)	PEAK (LIM)	QP (LIM) (dBuV)	AVG (LIM)
1	1.074	29.8 -30.2	20.6 -39.4	13.5 -46.5
2	27.120	30.4 -39.1	27.4 -42.1	25.1 -44.4
3	2.095	25.7 -43.8	20.0 -49.5	13.4 -56.1
4	22.721	25.1 -44.4	18.9 -50.6	12.6 -56.9
5	27.120	30.7 -38.8	27.4 -42.1	25.0 -44.5
6	12.642	25.2 -44.3	19.0 -50.5	12.7 -56.8
7	19.101	25.0 -44.5	18.9 -50.6	12.6 -56.9
8	14.845	24.5 -45.0	19.0 -50.5	12.8 -56.8
9	9.035	25.5 -44.0	19.0 -50.5	12.7 -56.8
10	21.806	25.1 -44.4	19.0 -50.5	12.6 -56.9
11	5.213	25.4 -44.1	19.2 -50.3	12.8 -56.7
12	15.468	24.5 -45.0	19.1 -50.4	12.7 -56.8

MARGIN SET TO 50.0 DB BELOW LIMIT LINE
TEST_182 17:14 8/04/03



Micro Concept
Line 0
cls A
FCC conducted