

FCC PART 15 Subpart C
EMI MEASUREMENT AND TEST REPORT

For

Nyko Technologies, Inc.

1990 Westwood Boulevard, Penthouse Suite
Los Angeles, CA 90025

FCC ID: RA30009260177

2004-01-26

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Air Flo Wireless for PlayStation
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Report No.: R0312173	
Test Date: 2003-12-23	
Reviewed By: Ling Zhang 	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Nyko Technologies, Inc.*'s product, model name: 80503 or the "EUT" as referred to in this report is a Wireless Joypad Transmitter, which is measured approximately 6.50"L x 5.20"W x 2.70"H, and powered by battery.

** The test data gathered are from production sample, serial number: RA30009260177, provided by the manufacturer.*

Objective

This document is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2001.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.205, and 15.249, 15.203, 15.209 rules.

Related Submittal(s)/Grant(s)

No Related Submittals

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 - 2001, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2001.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, CISPR 22:1997 and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing according to ANSI C63.4-2001.

Equipment Modifications

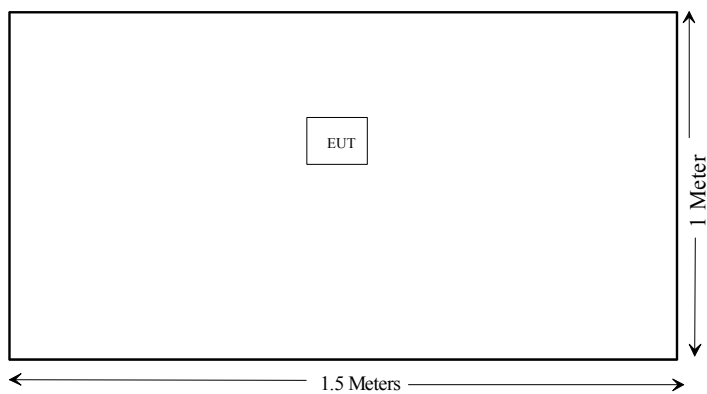
No modifications were made to the EUT.

Configuration of Test System



EUT

Test Setup Block Diagram



SUMMARY OF TEST RESULTS

Results reported relate only to the product tested, serial number: RA30009260177.

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209 (a),	Antenna Requirement	Compliant
§15.209 (a), §15.249(a)	Radiated Emission	Compliant
§15.249 (c)	Band Edge Testing	Compliant

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Refer to statement below for compliance.

“The antenna for this device is an integral antenna that the end user cannot access. Furthermore the device is for indoor use as detailed in the Users Manual and Operational Description”.

Antenna Connected Construction

The EUT has a permanent integral antenna that uses a unique coupling to the radiator.

§15.209(a) - RADIATED EMISSION DATA

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ± 4.0 dB.

EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with ANSI C63.4-2001. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle as required.

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR 15.33 (a) (1), the system was tested to 10 GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
Below 30MHz	10kHz	10kHz
30 – 1000MHz	100kHz	100kHz
Above 1000MHz	1MHz	1MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Due Date
HP	Spectrum Analyzer	8568B	2601A02165	2003-07-03
Agilent	Amplifier	8447E	2944A10187	2003-09-23
HP	Quasi-Peak Adapter	85650A	3019A05393	2003-06-13
EMCO	Biconical Antenna	3110B	9309-1165	2003-10-11
EMCO	Log Periodic Antenna	3146	2101	2003-10-11

* **Statement of Traceability: BACL Corp.** certifies that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the power cord of the host system and all support equipment were connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dBμV of specification limits), and are distinguished with a "Qp" in the data table.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBμV means the emission is 7dBμV below the maximum limit for applicable limits. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Applicable Limit}$$

Summary of Test Results

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, and 15.249 after tested to 10th harmonics as required by FCC and had the worst margin of:

Transmitter, 30MHz - 10GHz, 3 Meters, EUT Tested in X Orthogonal Plane

- 5.5 dB at 908.58MHz in the Horizontal polarization at Low Channel
- 5.7 dB at 914.90MHz in the Horizontal polarization at Middle Channel
- 5.7 dB at 923.33 MHz in the Horizontal polarization at High Channel
- 5.2 dB at 250.01 MHz in the Vertical polarization at Unintentional Emission

Transmitter, 30MHz - 10GHz, 3 Meters, EUT Tested in Y Orthogonal Plane

- 5.7 dB at 908.58MHz in the Horizontal polarization at Low Channel
- 5.9 dB at 914.90MHz in the Horizontal polarization at Middle Channel
- 5.8 dB at 923.33 MHz in the Horizontal polarization at High Channel
- 5.4 dB at 250.01 MHz in the Vertical polarization at Unintentional Emission

Transmitter, 30MHz - 10GHz, 3 Meters, EUT Tested in Z Orthogonal Plane

- 5.7 dB at 908.58MHz in the Horizontal polarization at Low Channel
- 5.9 dB at 914.90MHz in the Horizontal polarization at Middle Channel
- 5.8 dB at 923.33 MHz in the Horizontal polarization at High Channel
- 6.1 dB at 206.30 MHz in the Vertical polarization at Unintentional Emission

Radiated Emissions Test Result Data**Environmental Conditions**

Temperature:	22 °C
Relative Humidity:	65%
ATM Pressure:	1105mbar

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in X orthogonal Plane

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Channel											
908.58	89.4	FUND/ QP	180	1.5	H	23.6	3.8	28.3	88.5	94	-5.5
1817.17	51.9	AVE	160	1.1	V	25.3	2.6	34.8	45.0	54	-9.0
908.58	82.9	FUND/ QP	270	1.5	V	23.6	3.8	28.3	82.0	94	-12.0
1817.17	48.8	AVE	0	1.5	H	25.3	2.6	34.8	41.9	54	-12.1
1817.17	67.8	PEAK	160	1.1	V	25.3	2.6	34.8	60.9	74	-13.1
2725.75	43.3	AVE	200	1.2	V	29.0	3.7	35.4	40.6	54	-13.4
2725.75	42.7	AVE	0	1.3	H	29.0	3.7	35.4	40.0	54	-14.0
1817.17	64.7	PEAK	0	1.5	H	25.3	2.6	34.8	57.8	74	-16.2
2725.75	55.5	PEAK	200	1.2	V	29.0	3.7	35.4	52.8	74	-21.2
2725.75	54.2	PEAK	0	1.3	H	29.0	3.7	35.4	51.5	74	-22.5
Middle Channel											
914.90	89.5	FUND/ QP	310	1.5	H	23.2	3.9	28.3	88.3	94	-5.7
1829.80	52.1	AVE	60	1.5	V	25.3	2.6	34.8	45.2	54	-8.8
1829.80	48.9	AVE	230	1.2	H	25.3	2.6	34.8	42.0	54	-12.0
914.90	83.1	FUND/ QP	270	1.8	V	23.2	3.9	28.3	81.9	94	-12.1
1829.80	67.9	PEAK	60	1.5	V	25.3	2.6	34.8	61.0	74	-13.0
2744.70	43.4	AVE	310	1.6	V	29.0	3.7	35.4	40.7	54	-13.3
2744.70	42.8	AVE	15	1.2	H	29.0	3.7	35.4	40.1	54	-13.9
1829.80	64.8	PEAK	230	1.2	H	25.3	2.6	34.8	57.9	74	-16.1
2744.70	55.6	PEAK	310	1.6	V	29.0	3.7	35.4	52.9	74	-21.1
2744.70	54.3	PEAK	15	1.2	H	29.0	3.7	35.4	51.6	74	-22.4

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in X orthogonal Plane (Continued)

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency	Ampl.	Comments	Angle	Height	Polar	Antenna	Cable	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m		Degree	Meter	H/ V	dBμV/m	DB	dB	dBμV/m	dBμV/m	dB
High Channel											
923.33	89.2	FUND/ QP	90	1.5	H	23.4	4.0	28.3	88.3	94	-5.7
1846.66	51.7	AVE	270	1.2	V	25.3	2.6	34.8	44.8	54	-9.2
923.33	82.9	FUND/ QP	210	1.5	V	23.4	4.0	28.3	82.0	94	-12.0
1846.66	48.9	AVE	15	1.5	H	25.3	2.6	34.8	42.0	54	-12.0
1846.66	67.8	PEAK	270	1.2	V	25.3	2.6	34.8	60.9	74	-13.1
2769.99	43.2	AVE	180	1.7	V	29.0	3.7	35.4	40.5	54	-13.5
2769.99	42.6	AVE	160	1.8	H	29.0	3.7	35.4	39.9	54	-14.1
1846.66	64.6	PEAK	15	1.5	H	25.3	2.6	34.8	57.7	74	-16.3
2769.99	55.4	PEAK	180	1.7	V	29.0	3.7	35.4	52.7	74	-21.3
2769.99	54.1	PEAK	160	1.8	H	29.0	3.7	35.4	51.4	74	-22.6
Unintentional Emission, 30MHz to 1000MHz											
250.01	53.4		0	1.5	V	13.3	2.2	28.1	40.8	46	-5.2
206.30	52.2		0	1.5	V	11.5	2.2	28.2	37.7	43.5	-5.8
200.05	51.3		150	1.2	H	11.5	2.2	28.2	36.8	43.5	-6.7
233.20	51.6		15	1.5	V	12.6	2.2	28.1	38.3	46	-7.7
318.75	48.2		180	1.5	V	15.1	2.3	27.9	37.7	46	-8.3
166.09	46.5		120	1.5	H	13.0	1.8	28.4	32.9	43.5	-10.6
110.86	47.3		90	1.5	V	11.3	1.5	28.6	31.5	43.5	-12.0

Ave.: Average

Fund: Fundamental

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in Y orthogonal Plane

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Channel											
908.58	89.2	FUND/ QP	120	1.5	H	23.6	3.8	28.3	88.3	94	-5.7
1817.17	51.7	AVE	160	1.1	V	25.3	2.6	34.8	44.8	54	-9.2
908.58	82.8	FUND/ QP	230	1.5	V	23.6	3.8	28.3	81.9	94	-12.1
1817.17	48.8	AVE	30	1.5	H	25.3	2.6	34.8	41.9	54	-12.1
1817.17	67.6	PEAK	160	1.1	V	25.3	2.6	34.8	60.7	74	-13.3
2725.75	43.4	AVE	200	1.2	V	29.0	3.7	35.4	40.7	54	-13.3
2725.75	42.7	AVE	0	1.3	H	29.0	3.7	35.4	40.0	54	-14.0
1817.17	64.5	PEAK	30	1.5	H	25.3	2.6	34.8	57.6	74	-16.4
2725.75	55.5	PEAK	200	1.2	V	29.0	3.7	35.4	52.8	74	-21.2
2725.75	54.1	PEAK	90	1.3	H	29.0	3.7	35.4	51.4	74	-22.6
Middle Channel											
914.90	89.3	FUND/ QP	330	1.5	H	23.2	3.9	28.3	88.1	94	-5.9
1829.80	52.4	AVE	90	1.5	V	25.3	2.6	34.8	45.5	54	-8.5
1829.80	48.9	AVE	210	1.2	H	25.3	2.6	34.8	42.0	54	-12.0
914.90	83.1	FUND/ QP	210	1.8	V	23.2	3.9	28.3	81.9	94	-12.1
1829.80	68.3	PEAK	90	1.5	V	25.3	2.6	34.8	61.4	74	-12.6
2744.70	43.4	AVE	330	1.6	V	29.0	3.7	35.4	40.7	54	-13.3
2744.70	42.9	AVE	0	1.2	H	29.0	3.7	35.4	40.2	54	-13.8
1829.80	64.9	PEAK	210	1.2	H	25.3	2.6	34.8	58.0	74	-16.0
2744.70	55.6	PEAK	330	1.6	V	29.0	3.7	35.4	52.9	74	-21.1
2744.70	54.7	PEAK	0	1.2	H	29.0	3.7	35.4	52.0	74	-22.0

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in Y orthogonal Plane (Continued)

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency	Ampl.	Comments	Angle	Height	Polar	Antenna	Cable	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m		Degree	Meter	H/ V	dBμV/m	DB	dB	dBμV/m	dBμV/m	dB
High Channel											
923.33	89.1	FUND/ QP	60	1.5	H	23.4	4.0	28.3	88.2	94	-5.8
1846.66	51.5	AVE	240	1.2	V	25.3	2.6	34.8	44.6	54	-9.4
1846.66	48.8	AVE	30	1.5	H	25.3	2.6	34.8	41.9	54	-12.1
923.33	82.7	FUND/ QP	180	1.3	V	23.4	4.0	28.3	81.8	94	-12.2
1846.66	67.6	PEAK	240	1.2	V	25.3	2.6	34.8	60.7	74	-13.3
2769.99	43.1	AVE	110	1.7	V	29.0	3.7	35.4	40.4	54	-13.6
2769.99	42.5	AVE	160	1.8	H	29.0	3.7	35.4	39.8	54	-14.2
1846.66	64.5	PEAK	30	1.5	H	25.3	2.6	34.8	57.6	74	-16.4
2769.99	55.3	PEAK	110	1.7	V	29.0	3.7	35.4	52.6	74	-21.4
2769.99	53.9	PEAK	160	1.8	H	29.0	3.7	35.4	51.2	74	-22.8
Unintentional Emission, 30MHz to 1000MHz											
250.01	53.2		15	1.5	V	13.3	2.2	28.1	40.6	46	-5.4
206.30	52.3		30	1.5	V	11.5	2.2	28.2	37.8	43.5	-5.7
200.05	51.2		120	1.2	H	11.5	2.2	28.2	36.7	43.5	-6.8
233.20	51.8		0	1.5	V	12.6	2.2	28.1	38.5	46	-7.5
318.75	48.4		210	1.5	V	15.1	2.3	27.9	37.9	46	-8.1
166.09	46.3		180	1.5	H	13.0	1.8	28.4	32.7	43.5	-10.8
110.86	47.1		60	1.5	V	11.3	1.5	28.6	31.3	43.5	-12.2

Ave.: Average
Fund: Fundamental

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in Z orthogonal Plane

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Channel											
908.58	88.9	FUND/ QP	180	1.2	H	23.6	3.8	28.3	88.0	94	-5.7
1817.17	51.5	AVE	180	1.2	V	25.3	2.6	34.8	44.6	54	-9.4
908.58	82.3	FUND/ QP	210	1.5	V	23.6	3.8	28.3	81.4	94	-12.1
1817.17	48.4	AVE	90	1.5	H	25.3	2.6	34.8	41.5	54	-12.5
1817.17	67.4	PEAK	130	1.2	V	25.3	2.6	34.8	60.5	74	-13.5
2725.75	43.2	AVE	210	1.2	V	29.0	3.7	35.4	40.5	54	-13.5
2725.75	42.5	AVE	30	1.5	H	29.0	3.7	35.4	39.8	54	-14.2
1817.17	64.3	PEAK	60	1.5	H	25.3	2.6	34.8	57.4	74	-16.6
2725.75	55.3	PEAK	210	1.2	V	29.0	3.7	35.4	52.6	74	-21.4
2725.75	53.9	PEAK	30	1.5	H	29.0	3.7	35.4	51.2	74	-22.8
Middle Channel											
914.90	89.1	FUND/ QP	310	1.5	H	23.2	3.9	28.3	87.9	94	-5.9
1829.80	52.2	AVE	160	1.5	V	25.3	2.6	34.8	45.3	54	-8.7
914.90	82.8	FUND/ QP	270	1.6	V	23.2	3.9	28.3	81.6	94	-12.1
1829.80	48.4	AVE	230	1.2	H	25.3	2.6	34.8	41.5	54	-12.5
1829.80	67.9	PEAK	110	1.5	V	25.3	2.6	34.8	61.0	74	-13.0
2744.70	43.1	AVE	310	1.5	V	29.0	3.7	35.4	40.4	54	-13.6
2744.70	42.4	AVE	15	1.2	H	29.0	3.7	35.4	39.7	54	-14.3
1829.80	64.5	PEAK	230	1.2	H	25.3	2.6	34.8	57.6	74	-16.4
2744.70	55.3	PEAK	310	1.5	V	29.0	3.7	35.4	52.6	74	-21.4
2744.70	54.2	PEAK	15	1.2	H	29.0	3.7	35.4	51.5	74	-22.5

Transmitter, 900 MHz to 10GHz, 3 meters, EUT Tested in Z orthogonal Plane (Continued)

INDICATED			TABL E	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency	Ampl.	Comments	Angle	Height	Polar	Antenna	Cable	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m		Degree	Meter	H/ V	dBμV/m	DB	dB	dBμV/m	dBμV/m	dB
High Channel											
923.33	88.7	FUND/ QP	60	1.5	H	23.4	4.0	28.3	87.8	94	-5.8
1846.66	51.2	AVE	230	1.2	V	25.3	2.6	34.8	44.3	54	-9.7
923.33	82.5	FUND/ QP	120	1.6	V	23.4	4.0	28.3	81.6	94	-12.2
1846.66	48.4	AVE	60	1.5	H	25.3	2.6	34.8	41.5	54	-12.5
1846.66	67.3	PEAK	230	1.2	V	25.3	2.6	34.8	60.4	74	-13.6
2769.99	42.9	AVE	90	1.6	V	29.0	3.7	35.4	40.2	54	-13.8
2769.99	42.2	AVE	120	1.8	H	29.0	3.7	35.4	39.5	54	-14.5
1846.66	64.2	PEAK	60	1.5	H	25.3	2.6	34.8	57.3	74	-16.7
2769.99	55.1	PEAK	90	1.6	V	29.0	3.7	35.4	52.4	74	-21.6
2769.99	53.4	PEAK	120	1.8	H	29.0	3.7	35.4	50.7	74	-23.3
Unintentional Emission, 30MHz to 1000MHz											
206.30	51.9		45	1.6	V	11.5	2.2	28.2	37.4	43.5	-6.1
250.01	52.5		0	1.5	V	13.3	2.2	28.1	39.9	46	-6.1
200.05	51.1		90	1.2	H	11.5	2.2	28.2	36.6	43.5	-6.9
233.20	52.2		330	1.5	V	12.6	2.2	28.1	38.9	46	-7.1
318.75	48.2		180	1.5	V	15.1	2.3	27.9	37.7	46	-8.3
166.09	45.9		120	1.5	H	13.0	1.8	28.4	32.3	43.5	-11.2
110.86	46.8		30	1.2	V	11.3	1.5	28.6	31.0	43.5	-12.5

Ave.: Average
Fund: Fundamental

§15.249(c) - BAND EDGES TESTING

Standard Applicable

Requirements: FCC 15.249 (c), the emission power at the START and STOP frequencies shall be at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209, whichever is the lesser attenuation.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Due Date
HP	Spectrum Analyzer	8565EC	3946A00131	2003-05-03

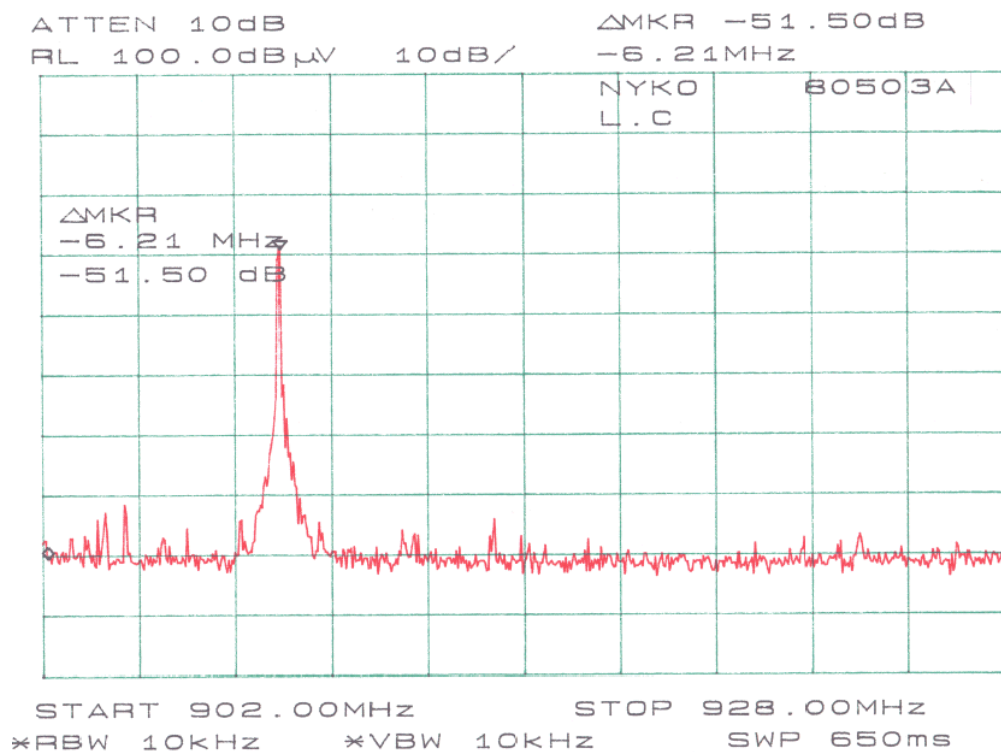
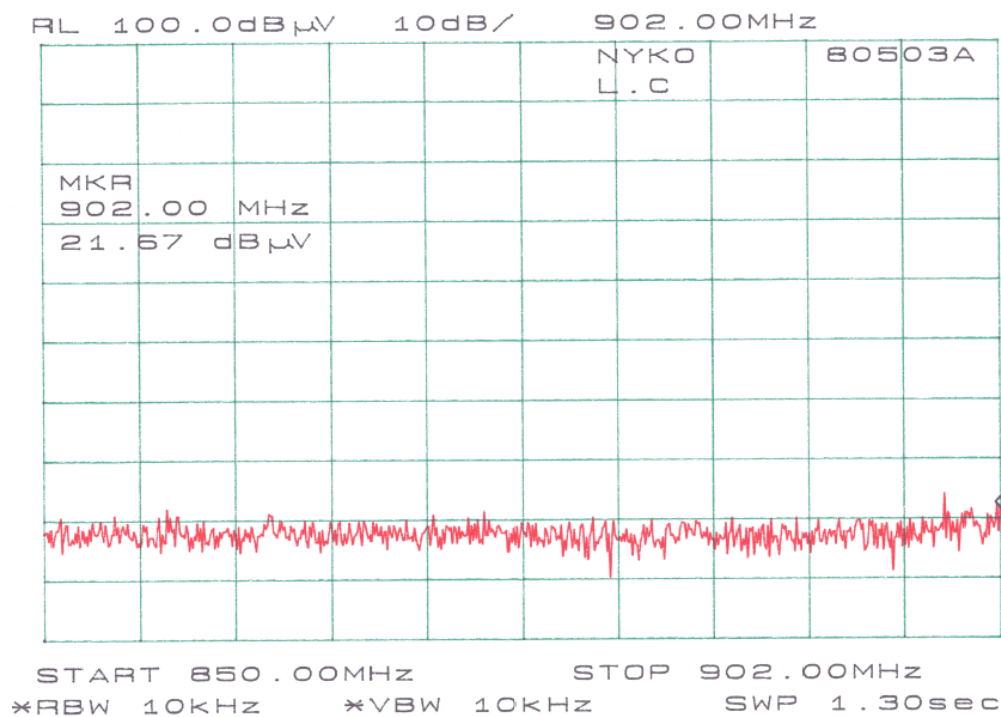
* **Statement of Traceability:** **BACL Corp.** certifies that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results

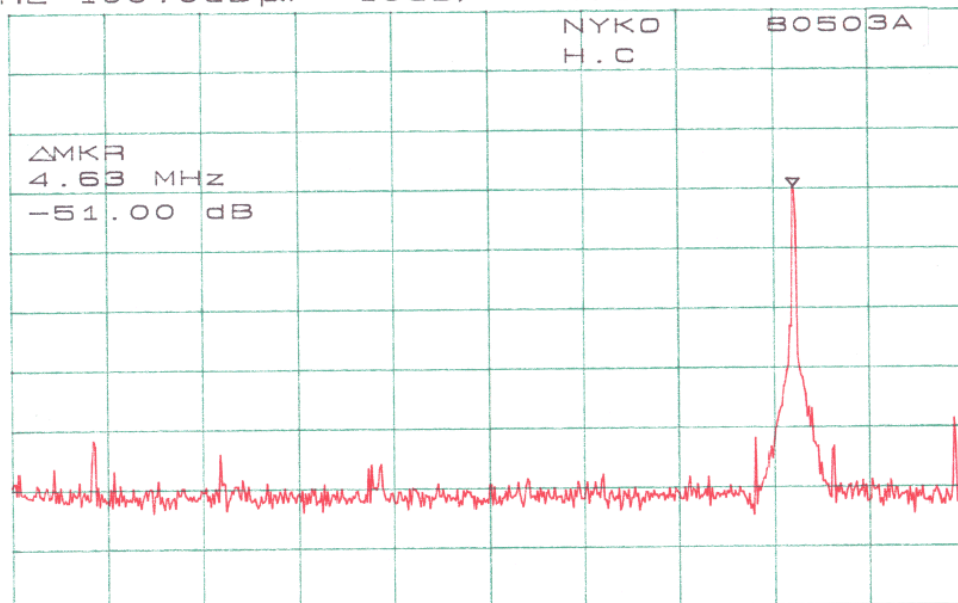
Environmental Conditions

Temperature:	22 °C
Relative Humidity:	65%
ATM Pressure:	1105mbar

Refer to the attached plots.

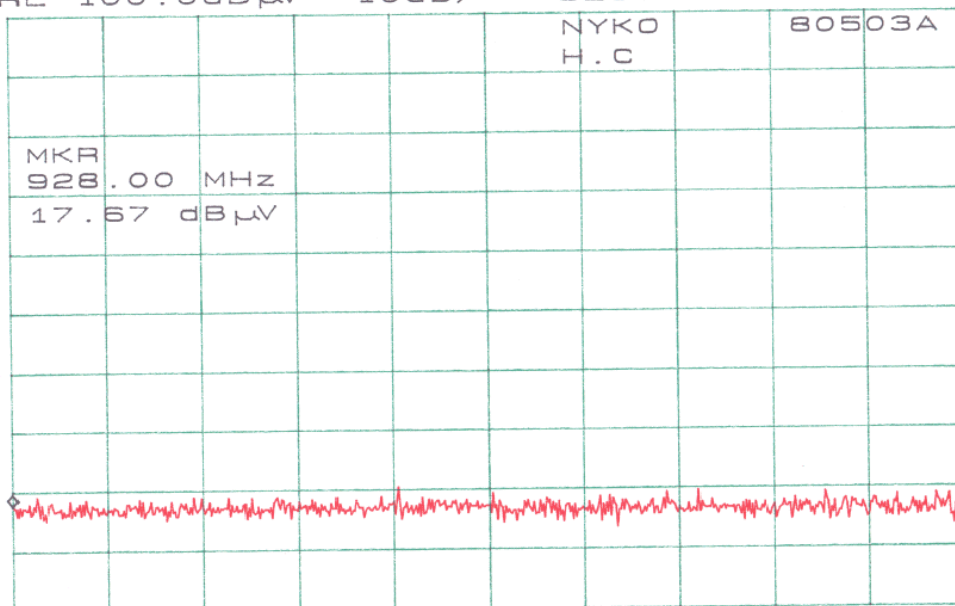


ATTEN 10dB
RL 100.00dB μ V 10dB/
 Δ MKR -51.00dB
4.63MHz



START 902.00MHz STOP 928.00MHz
*RBW 10kHz VBW 10kHz SWP 650ms

ATTEN 10dB
RL 100.00dB μ V 10dB/
MKR 17.67dB μ V
928.00MHz



START 928.00MHz STOP 960.00MHz
*RBW 10kHz *VBW 10kHz SWP 800ms