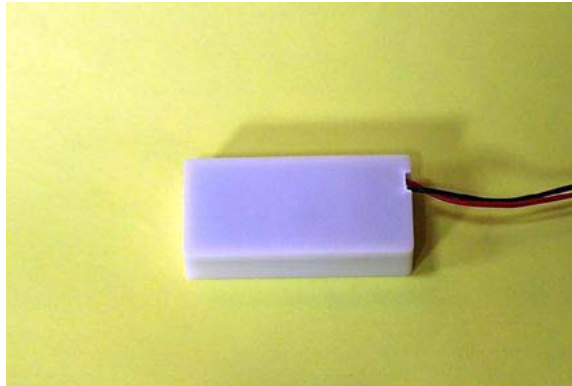


EXHIBIT E: REPORT OF MEASUREMENTS [2.1033(B6)]

Test Report for FCC ID: SKR-TKUZ-001
FCC Part 2.1031, Part 15 Subpart C(15.249)

Report #0400721F
Issued 12/30/04



908.42MHZ TRANSCEIVER MODEL 695364001

Prepared for:

TECHNIKU, Inc.
325 Interlocken Pkwy, Suite B
Broomfield, CO 80021

Test Date(s): September 15, October 1, 2004

data recorded by



Ted Chaffee, NCE

This report prepared by:



Ted Chaffee, NCE
Technical Manager/Test Engineer, AHD

TABLE OF CONTENTS

EXHIBIT E: Report of Measurements [2.1033(b6)]	1
TABLE OF CONTENTS	2
Statements Concerning this Report	3
Manufacturer/Applicant [2.1033(b1)]	4
Measurement/Test Site Facility & Equipment	4
Test Site [2.948, 2.1033(b6)]	4
Measurement Equipment Used [2.947(d), 15.31(b)]	4
Tested Configuration /Setup: [2.1033(b8)]	6
Support Equipment & Cabling	6
Setup Diagram	7
Summary of Results:	8
Changes made to achieve compliance	8
Standards Applied to Test: [2.1033(b6)]	9
Test Methodology: [2.1033(b6)]	9
FORMULAS AND SAMPLE CALCULATIONS:	11
Test Data [2.1033(b6)]	12
Relative Emission Level vs. Supply Voltage [15.31(e)]	12
Modulation Characteristics	13
Occupied Bandwidth	13
Radiated Field Strength Measurements: [15.209, 15.249(a,d)]	14
Out of Band Emissions [15.249(d)]	16
Line Conducted Measurements: [15.207(a)]	18

Statements Concerning this Report

NVLAP Accreditation: NVLAP Lab Code 200129-0

The scope of AHD accreditation is the conducted emissions, radiated emissions test methods of:

IEC/CISPR 22: Limits and methods measurement of radio disturbance characteristics of information technology equipment.

FCC Method – 47 CFT Part 15 – Digital Devices.

AS/NZS 3548: Electromagnetic Interference – Limits and Methods of Measurement of Information Technology Equipment.

IEC61000-4-2 and Amend.1: ElectroStatic Discharge Immunity

Test Data:

This test report contains data covered by the NVLAP accreditation.

Subcontracted Testing:

This report contains data recorded at the University of Michigan Radiation Laboratory. The University of Michigan test facility is located at 8501 Beck Road, Belleville, Michigan 48111. This test facility has been fully described and accepted by the FCC and Industry Canada. This facility was utilized to measure emissions occurring at frequencies greater than 6GHz.

Test Traceability:

The calibration of all measuring and test equipment and the measured data using this equipment are traceable to the National Institute for Standards and Technology (NIST).

Limitations on results:

The test results contained in this report relate only to the Item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require an evaluation to verify continued compliance.

Limitations on copying:

This report shall not be reproduced, except in full, without the written approval of AHD.

Limitations of the report:

This report shall not be used to claim product endorsement by NVLAP, FCC, or any agency of the US Government.

Statement of Test Results Uncertainty: Following the guidelines of NAMAS publication NIS81 and NIST Technical Note 1297, the Measurement Uncertainty at a 95% confidence level is determined to be: ± 1.4 dB

Manufacturer/Applicant [2.1033(b1)]

The manufacturer and applicant:

TECHNIKU, Inc.
325 Interlocken Pkwy, Suite B
Broomfield, CO 80021

Measurement/Test Site Facility & Equipment**Test Site1 [2.948, 2.1033(b6)]****SITE 1.**

The AHD test facility is centered on 9 acres of rural property near Sister Lakes, Michigan. The mailing address is 92723 M-152, Dowagiac, Michigan 49047. This test facility is NVLAP accredited (LabCode 200129-0). It has been fully described in a report filed with the FCC (No.90413) and Industry Canada (file:IC3161).

Measurement Equipment Used [2.947(d), 15.31(b)]**SITE 1.**

Equipment Calibration	Model	S/N	Last Cal Date	Interval
HP EMI Receiver system	HP 8546A			
RF Filter Section	HP-85460A	3448A00283	26-Aug-04	12 months
RF Receiver Section	HP-85462A	3625A00342	26-Aug-04	12 months
EMCO BiconiLog Antenna	3142	1077	24-Aug-04	12 months
Solar LISN	8012-50-R-24-BNC	962137	24-Aug-04	12 months
Solar LISN	8012-50-R-24-BNC	962138	24-Aug-04	12 months
(LCI) Double shielded 50ohm Coax	RG58/U	920809	29-Nov-04	12 months
(3-M) Type 129FF Ultra Flex LowLoss	RG58/U	9910-12	25-Oct-04	6 months
(3-M) LMR-400 Ultra Flex	LMR400	9812-11	25-Oct-04	6 months
Double Ridged Horn	ONO91202-2	A00329	02-Sep-04	physical inspection
Wavetek Signal Generator	2500	0010313	Characterized/leveled durng test setup	

Test Site2 [2.948, 2.1033(b6)]**SITE 2.**

The University of Michigan test facility is located at 8501 Beck Road, Belleville, Michigan 48111. This test facility has been fully described and accepted by the FCC and Industry Canada. This facility was utilized to measure emissions occurring at frequencies greater than 6GHz.

Measurement Equipment Used [2.947(d), 15.31(b)]**SITE 2.**

Equipment Calibration	Model	S/N	Last Cal	
			Date	Interval
C-Band Std. Gain Horn	UM NRL design		calibration by design & physical inspection.	
XN-Band Std. Gain Horn	UM NRL design		calibration by design & physical inspection.	
X-Band Std. Gain Horn	SA 12-8.2	730	calibration by design & physical inspection.	
Avantek RF amplifier	AFT-12665		06-Jul-04	12 months
3ft LowLoss coax	RG142	-	with Avantek amp	
Spectrum Analyzer	HP 8593E	3412A01131	06-Jul-04	12 months

Measurement Environment

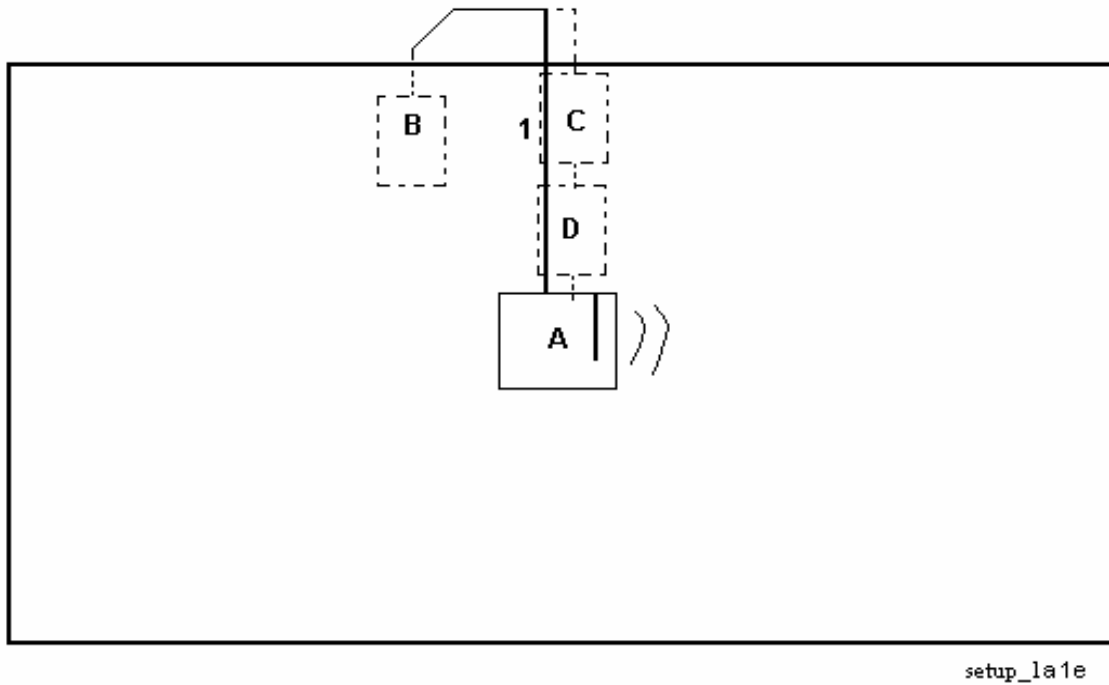
The tests were performed with the equipment under test, and measurement equipment inside the all-weather enclosure. Ambient temperature was 22deg.C., the relative humidity 35%.

Tested Configuration /Setup: [2.1033(b8)]**Support Equipment & Cabling**

Setup Diagram Legend	Description	Model	Serial No. / Part No.	EMC Consideration
A	[EUT] Curtain controller Transceiver	[Techniku] 695364001	preproduction	FCC ID: SKR-TKUZ-001
B	AC/DC Power Supply	[PowerBox] 6vdc SPU10-103		Located on the turntable base below the EUT table.
	AC/DC Power Supply	[Yubright] 12vdc ADS-U121P25.0000		Located on the turntable base below the EUT table.
	AC/DC Power Supply	[Ansmann] 24vdc 9932H		Located on the turntable base below the EUT table.
C	Curtain motor	[Techniku] 10609 w. TH950 control		6vdc. Used during line conducted emissions tests.
	Curtain motor	[Techniku] LR1000		12vdc. Used during line conducted emissions tests.
	Curtain motor	[Techniku] LR900 w. LR900-AM driver		24vdc. Used during line conducted emissions tests.
D	9vdc battery	-	-	Used during high frequency measurements

Setup Diagram

Note: Setup photographs are located in Attached Electronic File, Exhibit E.



BASIC EUT SETUP
(Legend designation is on previous page)

Summary of Results:

1. This test series evaluated the Equipment Under Test to FCC Part 15, SubPart C.
2. The system tested is compliant to the requirement of CFR 47, FCC Part 15, SubPart C for operation in the 902-928MHz frequency band, (Part 15.249).
3. The equipment under test was received on September 15, 2004 and this test series commenced on September 15, 2004.
4. The unit operates only at the frequency 908.42MHz.
5. The Occupied Band width of the fundamental, using a 120KHz RBW, measured 403KHz.
6. The field strength level of the fundamental was measured with a Quasi-Peak detection and observed to be 1.1dB below the quasi-peak limit of 94dBuV/m (50,000uV/m). The EUT was positioned on the 'end' and the receive antenna oriented in the horizontal polarization.
7. The evaluation of the field strength levels of the transmitter harmonics showed the emission nearest the limit occurred at 1816.8MHz. This signal was measured to be 2.8dB below the average limit of 54dBuV/m (500uV/m). The EUT was configured in the 'side' position, and the receive antenna oriented in the horizontal polarization.
8. The field strength level of the Local Oscillator was measured to be 0.2dB below the quasi-peak limit of 46dBuV/m (200uV/m). The EUT was positioned on the 'flat' and the receive antenna oriented in the vertical polarization.
9. The evaluation of the field strength levels of the Local Oscillator harmonics showed the measurable emission nearest the limit occurred at 1.8166GHz. It was measured to be 11.6dB below the average limit of 54dBuV/m (500uV/m). The EUT was configured in the 'flat' position, and the receive antenna oriented in the horizontal polarization. All other emissions were within the background RF noise of the system.
10. Spurious emissions, not harmonics of transmitter or local oscillator, were initiall determined in a shielded enclosure. At the open area test site the spurious emission level nearest the limit occurred at 405.7MHz. This emission was measured to be 36.2dBuV/m Quasi-Peak which is 9.8dB below the limit of 46dBuV/m (200uV/m).
11. The line conducted emission level nearest the limit occurred while using the Yubright 12vdc power supply and Techniku LR1000 curtain motor. This emission, at 180KHz, was measured to be 62.4dBuV Quasi-Peak which is 2.1dB below the limit of 64.5dBuV.

Changes made to achieve compliance

1. Power output set in firmware to be 'A0_4'.

Standards Applied to Test: [2.1033(b6)]

ANSI C63.4 - 2001

CFR47 FCC Part 2, Part 15, SubPart C, 15.249 Intentional Radiator; SubPart B, Digital Device

AHD test procedures TP0101-01, TP0102-01

Test Methodology: [2.1033(b6)]

The setup pictures in this report indicate the configuration of testing for this product.

The product was evaluated for emissions in both transmit and a receive modes. The transmitted power output is set in firmware and the user does not have access to this location. The receiver uses a local oscillator 200KHz below the received signal.

In transmit mode, the EUT was setup up to transmit continuously with an FSK modulation. The measurements of the fundamental and its harmonics were recorded with Peak detection. The measurements of the fundamental frequencies were compared to the appropriate Quasi-Peak and average limits of section 15.249.

In receive mode, the EUT was setup in standby receive. An external rf generator set to 908.42MHz and without modulation was used to energize the receiver circuitry.

A 9vdc battery was used during the measurements of the high frequencies. A 6vdc ac/dc power supply was used during the radiated tests.

During line conducted evaluation a variety of available ac/dc power supplies (6vdc to 24vdc) were used. This included:

6vdc operation: Power cube is POWERBOX model SPU10-103. Curtain motor is Techniku model 10609, and a control unit model TH950 mains-AM.

12vdc operation: Power cube is YUBRIGHT P/N ADS-U121P25.0000. Curtain motor is Techniku model LR1000.

24vdc operation: Power cube is ANSMANN model 9932H. Curtain motor is Techniku model LR900 with LR900-AM controller.

The system was placed at the center of the table 80cm above the ground plane pursuant to ANSI C63.4 for stand-alone equipment.

Radiated

The system was placed upon a 1 x 1.5 meter non-metallic table 80cm above the open field site ground plane in the prescribed setup per ANSI C63.4.

The table sits upon a remote controlled turntable. The receiving antenna, located at the appropriate standards distance of 3 or 10 meters from the table center, is also remote controlled.

The principle settings of the EMI Receiver for radiated testing include:

IF Bandwidth: 120KHz for frequencies less than 1GHz.
1 MHz for frequencies greater than 1GHz.
Detector Function: Peak Mode for transmitter fundamental and harmonics.
Quasi-Peak and Average for all other emissions

At frequencies up to 1000MHz a BiconiLog broadband antenna was used for measurements.

At frequencies above 1000MHz a double-ridge Horn broadband antenna was used for measurements.

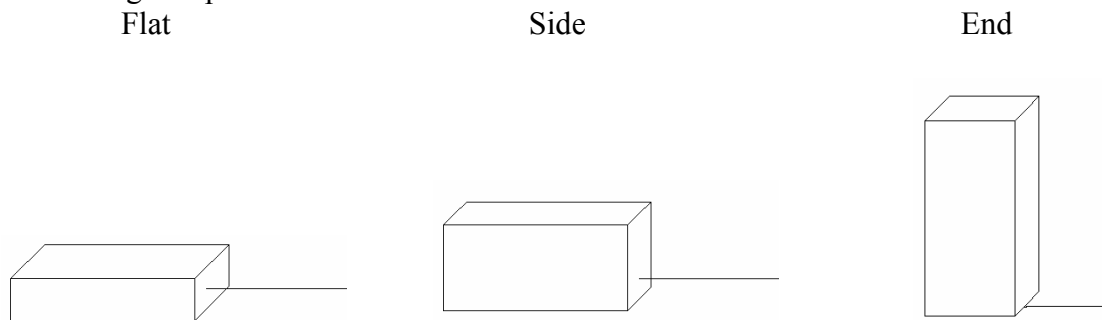
During the transmitter evaluation the EUT was transmitting continuously.

The turntable was rotated 360 degrees and the receiving antenna height varied from 1 to 4 meters to search out the highest emissions.

The final measurements were made with the EUT placed in one of three orthogonal positions (designated as flat, side, and end). Measurements were recorded in each of these three positions and with the receive antenna in vertical and horizontal positions.

The unit was evaluated up to the tenth harmonic of the transmit fundamental, up to the tenth harmonic of the receiver local oscillator, and up to 5000MHz for other spurious signals.

The orthogonal positions of EUT are:



FORMULAS AND SAMPLE CALCULATIONS:

THE HP8546A EMI Receiver has stored in memory the antenna and coax correction factors used in this test. The resultant Field Strength (FS) in dBuV/m presented by the HP8546A is the summation in decibels (dB) of the Received Level (RF), the Antenna Correction Factor (AF), and the Cable Loss Factor (CF).

Formula 1:
$$FS(\text{dBuV/m}) = RF(\text{dBuV}) + AF(\text{dB/m}) + CF(\text{dB})$$

With the EUT in transmitting mode only the resultant Field Strength measurement is recorded using the peak hold detector of the HP8546A.

Where it was necessary to move the EUT to 1 meter distance to take measurements a 'dB' factor which adjusts for this distance variance is used before comparing the emission level to the FCC limits. This factor is determined by the following formula.

Formula 3:
$$\text{Distance factor(dB)} = 20 * \text{Log}(3\text{meter}/1\text{meter}) = 20 * \text{Log}(3) = 9.54\text{dB}.$$

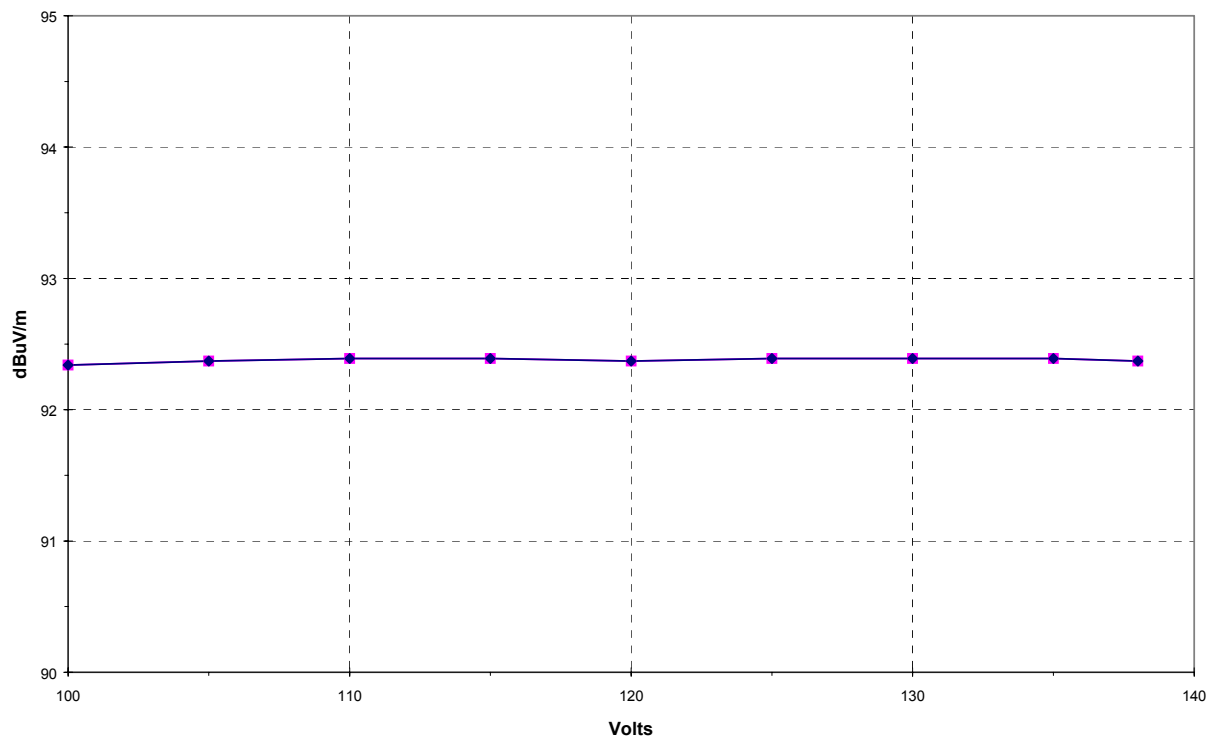
Test Data [2.1033(b6)]**Relative Emission Level vs. Supply Voltage [15.31(e)]**

The relative emission level as the supply voltage varied is presented in the charts below.

The ac mains level, input to the ac/dc power supply, was adjusted from 100vac to 138vac.

TX OUTPUT vs Voltage LEVEL 908.4MHz,	
Volt In	TX OutPut Pk dBuV/m
100	92.34
105	92.37
110	92.39
115	92.39
120	92.37
125	92.39
130	92.39
135	92.39
138	92.37

OUTPUT FIELD STRENGTH vs INPUT VOLTAGE
[Tuned to 908.42MHz]

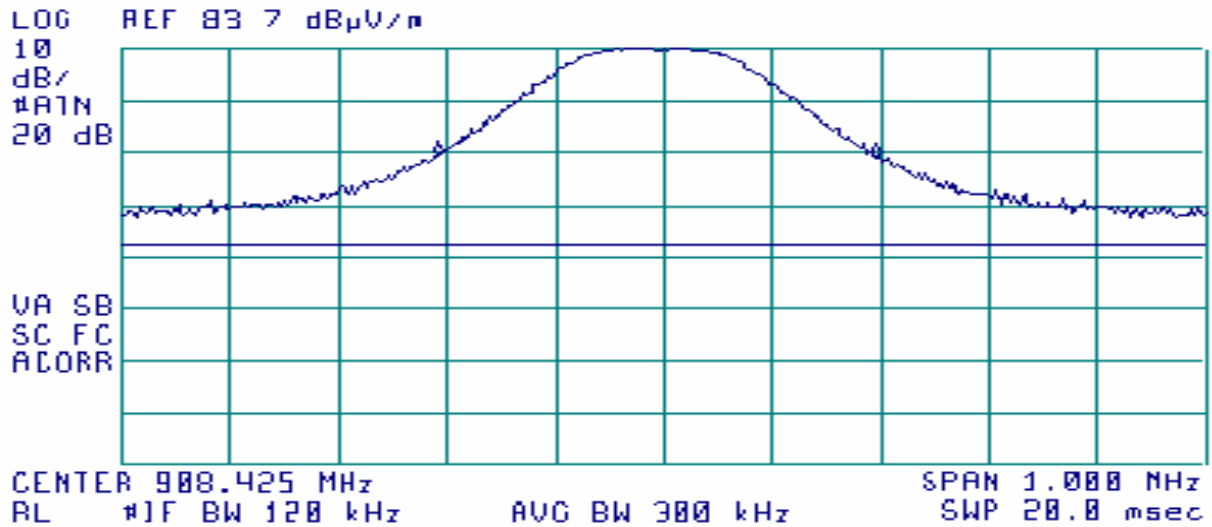


Modulation Characteristics

The transmitter is FSK modulated using $\pm 11\text{kHz}$ frequency shifting.

Occupied Bandwidth

An RBW of 120kHz is selected.



This chart shows a typical measured bandwidth signal.

Fundamental (MHz)	Measured 20dB Bandwidth		
908.42	403KHz		

Radiated Field Strength Measurements: [15.209, 15.249(a,d)]**Field Strength Measurements of Fundamental & LO: [15.249(a,d), 15.209]****MEASUREMENT PROCEDURE:**

1. The EUT was setup to one of the three orthogonal positions.
2. The receive antenna is positioned vertical or horizontal polarity.
3. Steps 1-2 were repeated to cover all positions.

The FCC field strength limit of the fundamental is 50milliVolt/m at a measurement distance of 3 meters. This number is equivalent to 94dBuV/m.

Calculation: $50\text{mV/m} = 50,000\text{uV/m}$. $20*\text{Log}(50,000\text{uV/m})=94\text{dBuV/m}$

The FCC field strength limit of the harmonics is 500microVolt/m at a measurement distance of 3 meters. This number is equivalent to 54dBuV/m.

Calculation: $20*\text{Log}(500\text{uV/m})=54\text{dBuV/m}$

Transmit Mode. Fundamental

Frequency	Corrected Quasi Peak Measurement	Included Cable+Antenna Factors	Turntable Azimuth	Antenn a Height	FCC Limit	Margin	EUT postion	Ant. Pol.
MHz	dBuV/m	dB+dB/m	deg	Mtr	dBuV/m	dB		
908.4	92.93	26.52	270	1.0	94	1.07	end	H

Transmit Mode. Harmonics

Frequency MHz	Corrected Average Measurement dBuV/m	Included Cable+Antenna Factors dB+dB/m	Turntable Azimuth deg	Antenn a Height Mtr	FCC Limit dBuV/m	Margin dB	EUT postion	Ant. Pol.
1816.8	51.15	31.77	200	1.0	54.00	2.85	side	H
2725.1	38.37	36.36	100	1.5	54.00	15.63	end	H
3633.4	39.52	38.73	300	1.9	54.00	14.48	flat	V
4542.0	37.81*	39.82	-	1.0	54.00	16.19	-	V
5451.3	41.56*	43.53	-	1.0	54.00	12.44	-	V

*These levels are at the noise floor of the measurement systems.

The following transmitter harmonic measurements were taken at the UM Radiation Lab facility. The distance between the EUT and Horn antenna is 3 meter. Spectrum analyzer settings for peak measurements are 1MHz RBW, 3MHz VBW.

The term in the column “calculated average level” is determined by
SA Peak Measurement + Ant Factor – Amp Factor

The peak level emissions are compared to the FCC average limits. Compliance is demonstrated.

Freq MHz	S.A. PEAK Measurement dBuV/m	Antenna Correction Factor dB/m	RF Amp Factor dB	Calculated Peak Level dBuV/m	FCC Avg Limit dBuV/m	Margin dB
6350	47.5*	25.3	38.0	34.8*	54	>19.2
7275	50.8*	25.3	36.9	39.2*	54	>14.8
8181	52.5*	25.3	36.3	41.5*	54	>12.5
9080	52.4*	28.5	37.0	43.9*	54	>10.1

*These levels are at the noise floor of the measurement systems. No emissions above the noise floor were observed, 6.0-13.0GHz, Avg. or Peak.

Receive Mode. Local Oscillator & harmonics

Frequency MHz	Corrected Quasi-peak Measurement dBuV/m	Included Cable+Antenna Factors dB+dB/m	Turntable Azimuth deg	Antenn a Height Mtr	FCC Limit dBuV/m	Margin dB	EUT postion	Ant. Pol.
908.27	45.82	26.52	190	1.0	46.00	0.18	flat	V

Frequency MHz	Corrected AVERAGE Measurement dBuV/m	Included Cable+Antenna Factors dB+dB/m	Turntable Azimuth deg	Antenn a Height Mtr	FCC Limit dBuV/m	Margin dB	EUT postion	Ant. Pol.
1816.62	42.37	31.77	270	1.0	54.00	11.63	flat	H
2725.0	33.7*	36.36	-	1.0	54.00	>20.3	flat	V
3632.7	36.6*	38.73	-	1.0	54.00	>17.4	flat	V
4541.5	38.0*	39.82	-	1.0	54.00	>16.0	flat	H
5449.5	41.6*	43.52	-	1.0	54.00	>12.4	flat	H
6358.7	43.3*	44.60	-	1.0	54.00	>10.7	flat	H

*These levels are at the noise floor of the measurement systems.

No measurements taken above the 7th harmonic of the local oscillator.

Out of Band Emissions [15.249(d)]

The emissions outside the 902-928MHz band are to be either 50dB below the level of the fundamental or the limits of section 15.209.

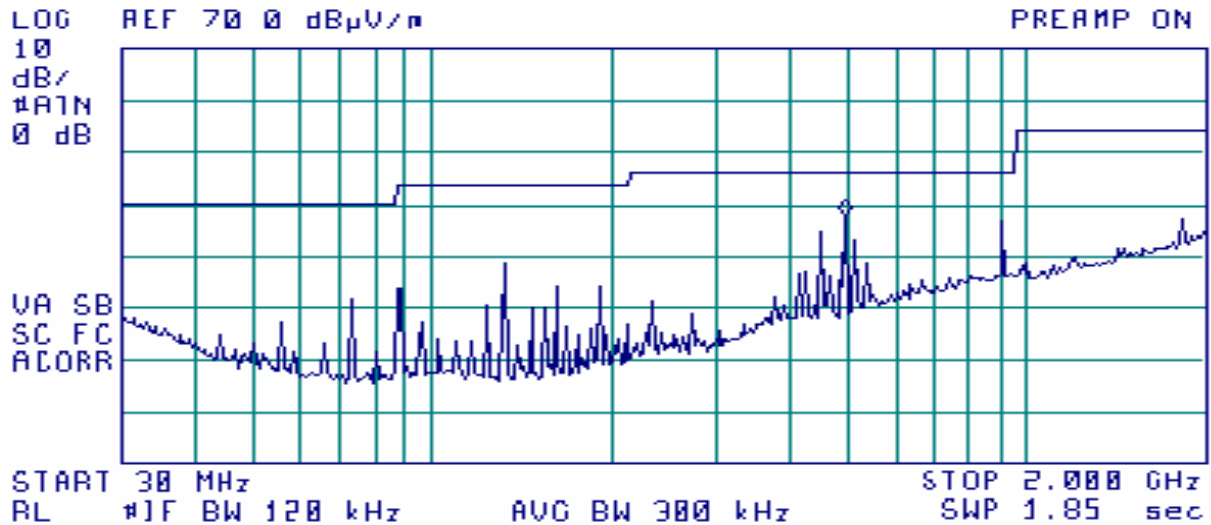
LIMIT @ 3meter: [15.209(a)]

30-88MHz	100uV/m	40dBuV/m
88-216MHz	150uV/m	43.5dBuV/m
216-960MHz	200uV/m	46dBuV/m
above 960MHz	500uV/m	54dBuV/m

A scan of the 695364001 was made in a shielded room to study the emission profile of the EUT. These scans indicate there are low level spurious emissions from the unit other than the fundamental and its associated harmonics. These suspect signals were measured at the 3-meter open area test site.

Spurious Emissions: [15.249d]

Graph of scan made in shielded enclosure



Tabulated Quasi-Peak Measurements.

Frequency MHz	Corrected Quasi Peak Measurement dBuV/m	Included Cable+Antenna Factors dB+dB/m	Turntable Azimuth deg	Antenn a Height Mtr	Polarity	FCC Class B Limit dBuV/m	Margin dB
73.77	20.96	7.32	10	1.3	V	40.00	19.04
147.52	20.79	9.27	270	2.5	H	43.50	22.71
206.55	21.44	12.22	270	1.0	V	43.50	22.06
317.20	26.24	15.52	200	1.0	H	46.00	19.76
346.72	28.38	16.84	200	1.0	H	46.00	17.62
361.44	26.08	17.46	190	1.0	V	46.00	19.92
390.97	33.33	18.62	250	1.0	H	46.00	12.67
405.73	36.21	18.87	250	1.0	H	46.00	9.79
479.50	34.91	20.05	230	1.0	H	46.00	11.09
494.24	34.17	20.43	180	1.0	V	46.00	11.83
509.00	35.04	20.80	180	1.0	V	46.00	10.96

The frequencies for measurements were determined by the suspect list generated from the shielded room prescan of 30MHz through 5GHz.

All other spurious emission are greater than 20dB below limits.

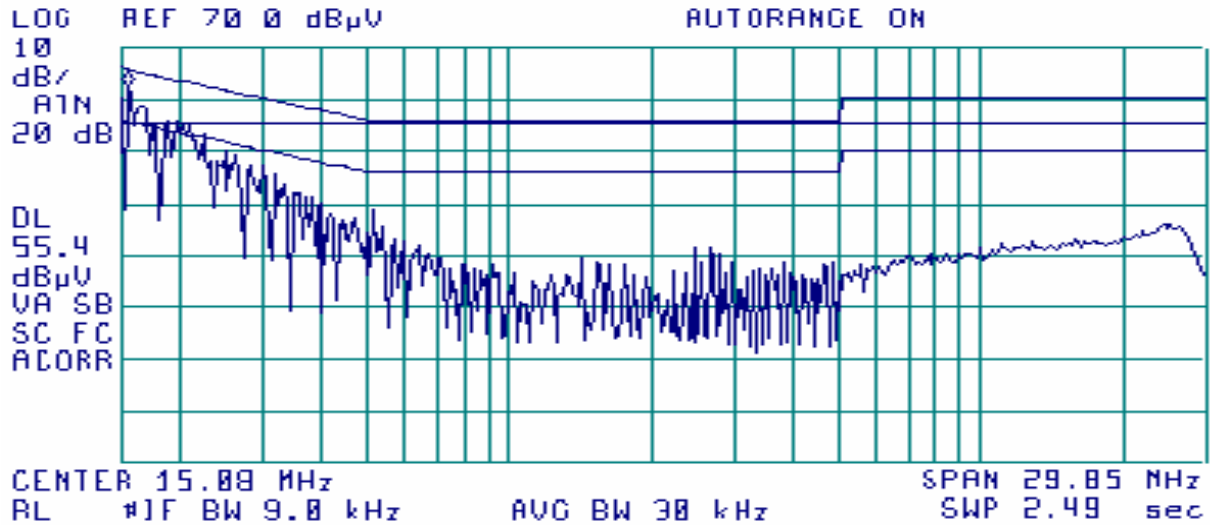
Line Conducted Measurements: [15.207(a)]**Line Conducted: 6vdc power supply**

Power supply is POWERBOX model SPU10-103
Motor is Techniku #10609 with control TH950 mains-AM

NEUTRAL to Ground Measurement.

Class B

Plot of Peak Values



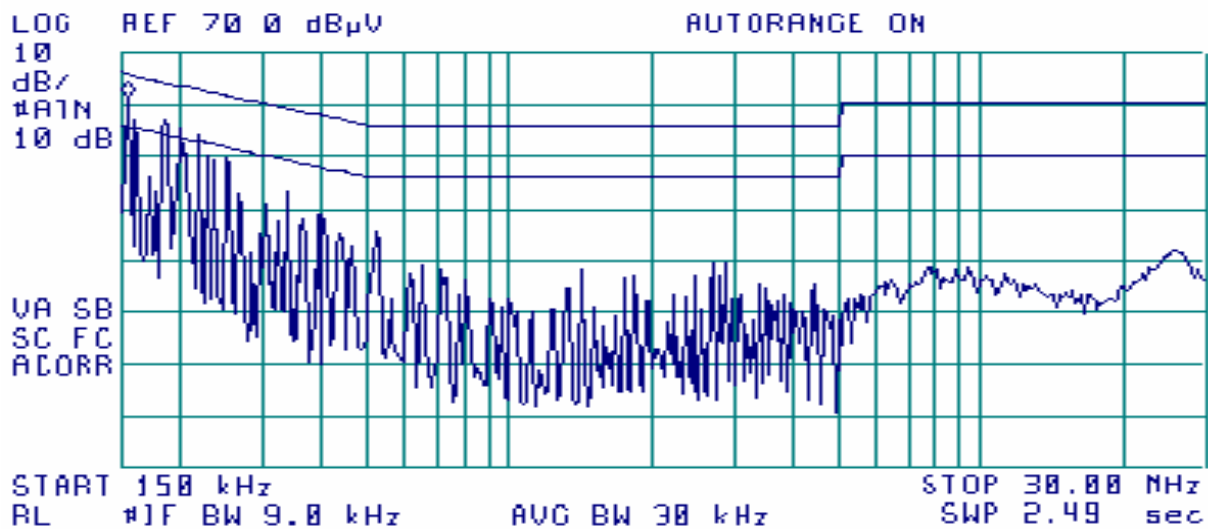
Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.150	51.82	15.77	66.00	56.00	14.18	40.23
0.208	43.90	31.75	63.31	53.31	19.41	21.56
0.251	40.01	8.05	61.71	51.71	21.70	43.66
0.513	31.70	23.53	56.00	46.00	24.30	22.47
2.575	31.55	25.87	56.00	46.00	24.45	20.13
2.678	31.43	25.58	56.00	46.00	24.57	20.42
26.265	34.01	31.34	60.00	50.00	25.99	18.66

PHASE to Ground Measurement.

Class B

Plot of Peak Values



Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.150	50.13	21.27	66.00	56.00	15.87	34.73
0.207	47.57	34.03	63.33	53.33	15.76	19.30
0.248	39.03	7.61	61.83	51.83	22.80	44.22
0.515	34.49	31.02	56.00	46.00	21.51	14.98
0.516	34.10	29.88	56.00	46.00	21.90	16.12
1.444	29.15	22.94	56.00	46.00	26.85	23.06
2.475	28.44	21.00	56.00	46.00	27.56	25.00
25.675	31.05	26.57	60.00	50.00	28.95	23.43

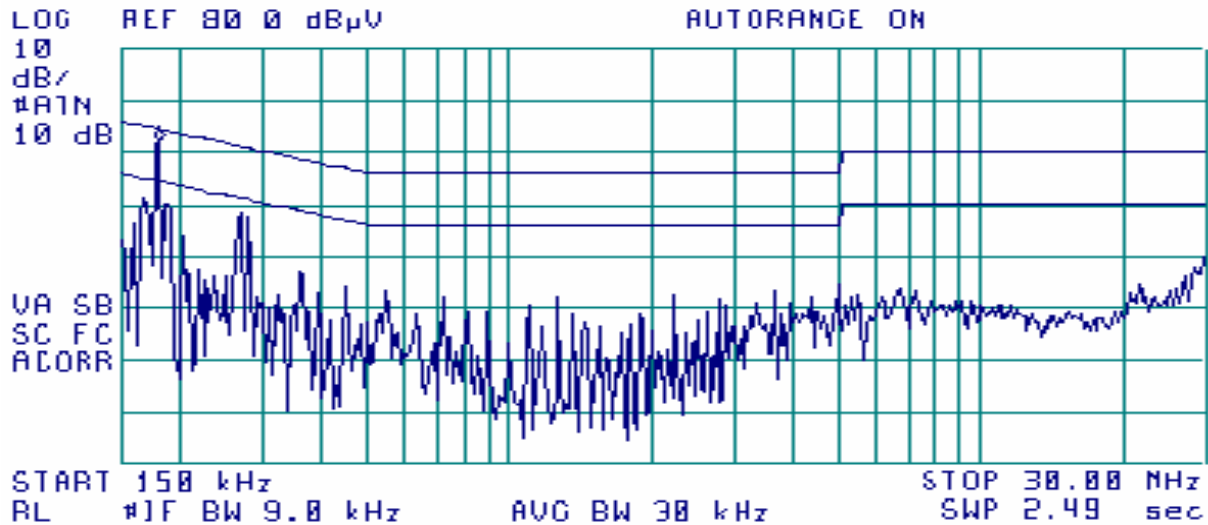
Line Conducted: 12vdc power supply

Power supply is YUBRIGHT, P/N ADS-U121P25.0000
Motor is Techniku #LR1000

NEUTRAL to Ground Measurement.

Class B

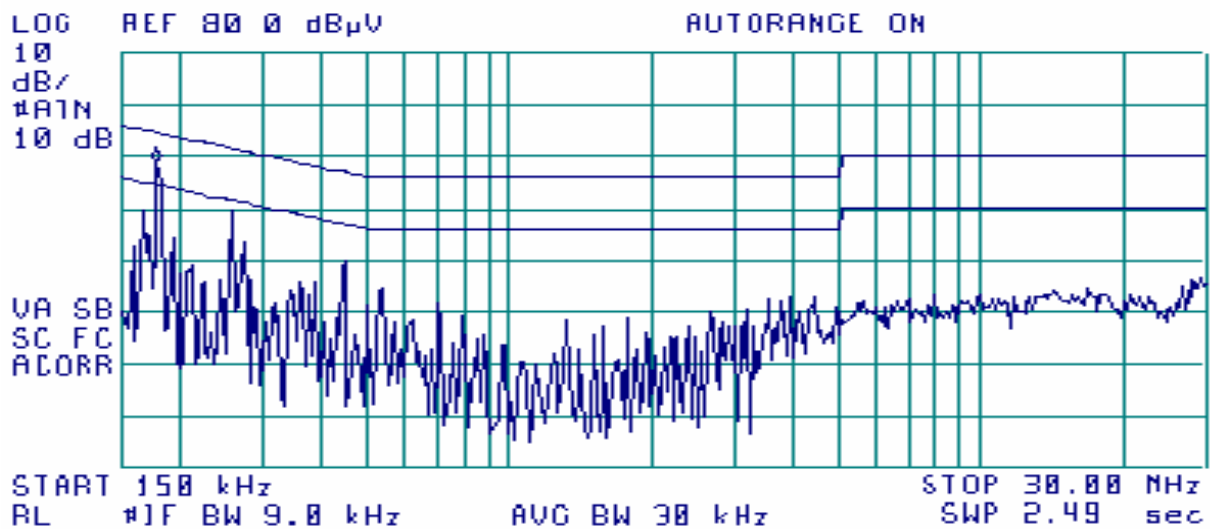
Plot of Peak Values



Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.184	55.92	42.50	64.32	54.32	8.40	11.82
0.275	43.47	31.15	60.96	50.96	17.49	19.81
0.366	35.58	22.06	58.59	48.59	23.01	26.53
0.461	32.15	22.29	56.68	46.68	24.53	24.39
4.780	32.72	27.47	56.00	46.00	23.28	18.53
5.977	33.44	28.28	60.00	50.00	26.56	21.72
29.700	26.82	17.79	60.00	50.00	33.18	32.21

PHASE to Ground Measurement.
Class B
Plot of Peak Values



Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.180	62.34	43.71	64.48	54.48	2.14	10.77
0.269	49.63	32.56	61.14	51.14	11.51	18.58
0.449	35.66	21.95	56.90	46.90	21.24	24.95
0.542	32.08	19.17	56.00	46.00	23.92	26.83
4.785	32.08	22.75	56.00	46.00	23.92	23.25
17.911	17.76	6.57	60.00	50.00	42.24	43.43
29.743	20.13	10.64	60.00	50.00	39.87	39.36

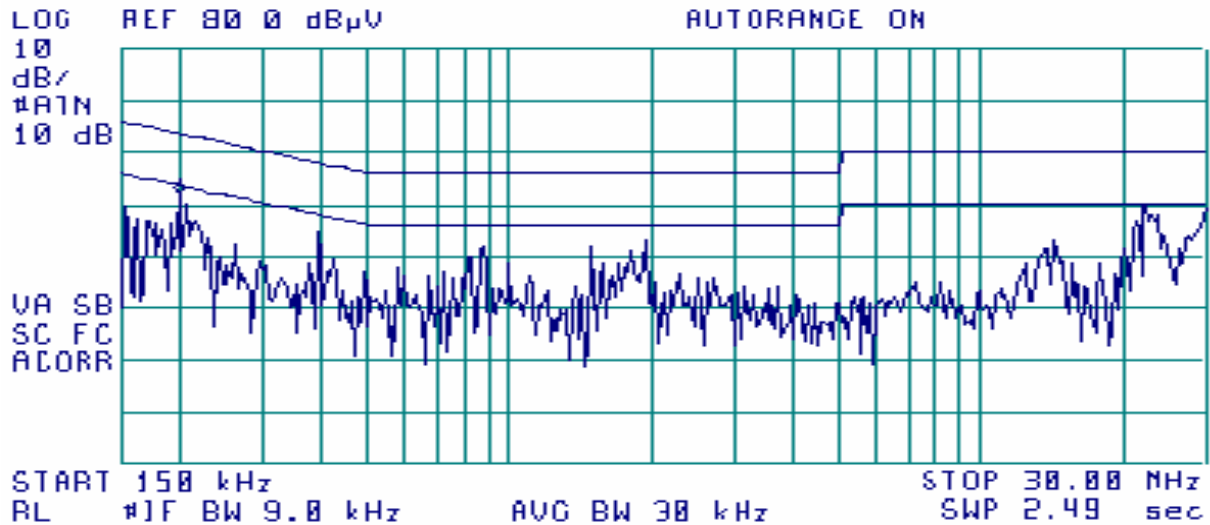
Line Conducted: 24vdc power supply

Power supply is ANSMANN, #9932H
Motor is Techniku #LR900 with controller #LR900-AM

NEUTRAL to Ground Measurement.

Class B

Plot of Peak Values



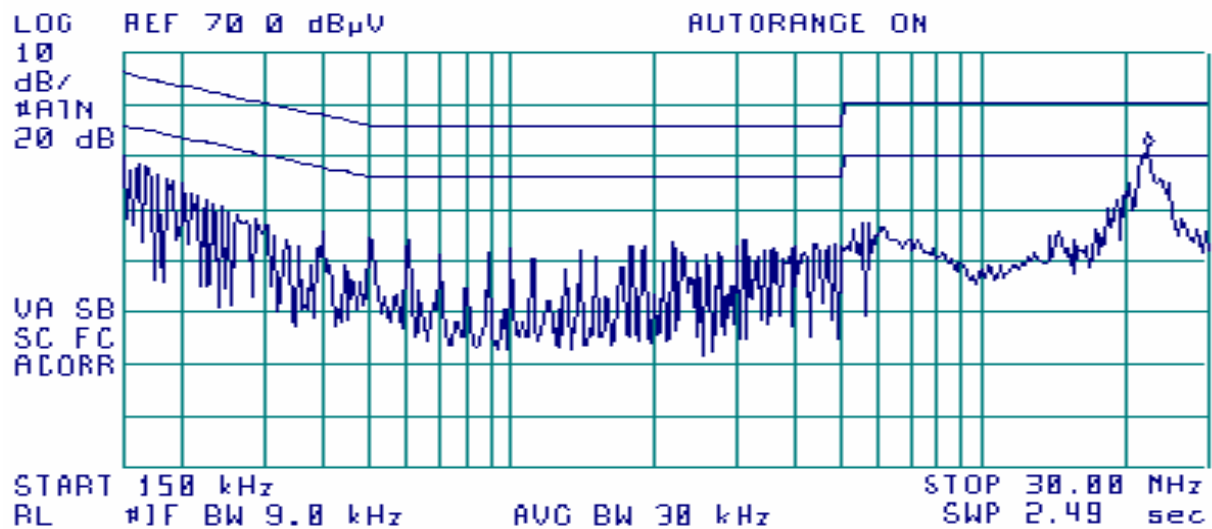
Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.202	49.11	36.98	63.51	53.51	14.40	16.53
0.399	42.82	32.51	57.89	47.89	15.07	15.38
0.890	41.04	14.99	56.00	46.00	14.96	31.01
0.901	21.34	18.41	56.00	46.00	34.66	27.59
1.226	30.79	11.03	56.00	46.00	25.21	34.97
1.803	23.91	22.87	56.00	46.00	32.09	23.13
13.947	36.93	31.17	60.00	50.00	23.07	18.83
22.297	40.46	13.19	60.00	50.00	19.54	36.81
29.911	29.24	0.01	60.00	50.00	30.76	49.99

PHASE to Ground Measurement.

Class B

Plot of Peak Values



Tabulated Quasi-Peak/Average Measurements.

Frequency MHz	dBuV Reading		FCC / EN55022 dBuV Class B Limit		dB Margin	
	QP	Avg	QP	Avg	QP	Avg
0.155	43.81	17.38	65.72	55.72	21.91	38.34
0.202	38.85	37.13	63.54	53.54	24.69	16.41
0.404	32.91	31.73	57.77	47.77	24.86	16.04
0.508	33.90	33.37	56.00	46.00	22.10	12.63
0.607	33.67	33.05	56.00	46.00	22.33	12.95
5.973	34.25	30.73	60.00	50.00	25.75	19.27
21.803	33.70	28.41	60.00	50.00	26.30	21.59