#### Exhibit 11

OATS Radiated Emissions Test Report - Keyboard\_Radiated Emissions\_test Report\_r004\_FCC\_IC

#### To Whom It May Concern:

Hyper Corporation is an A2LA accredited laboratory for Antenna Conducted test methods. For radiated emissions however, Hyper Corp has contracted Compliance Certification Laboratories (561F Monterey Road, San Jose, CA 95037-9001 - CCL) to perform OATS radiated measurements between 30 to 1000MHz. Hyper has contracted Stratest Labs (1533 California Circle Milpitas, CA 95035) for testing between 1000 to 25000MHz. Stratest and CCL are FCC registered Test Facilities. CCL is the test lab of record used on the 731 form.

 EMC Test Report
 Hyper Corp.

 No.: 0205006
 Date: July 31, 2002 Rev 004



"Wireless that Works" SM

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# **EMC Test Report**

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Certificate Number 1708-1

Hyper Corp is an Accredited Laboratory by The American Association For Laboratory Accreditation (A2LA) to ISO/IEC 17025-for the scope of BLUETOOTH Testing.

## Signature Page

The below listed Hyper Corporation Personnel takes responsibility for the contents of this Test Report.

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	William Elliott	Date
Reviewed by		
Technical		
Manager:	Original signed	07.22.02
	Kevin Marquess	Date

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## 1. List of Revisions

Version	Date	Author(s)	Description
001	July 22, 2002	Elliott, William	Initial Version
002	July 23, 2002	Jean Chin	Editorial Change
003	July 24, 2002	Jean Chin	Adding IC RSS210 specification
004	July 31, 2002	Jean Chin	Adding Restricted Bands Measurement Result

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### 2. Disclaimer Notice

This test report applies only to the EUT (Equipment Under Test) and the results of the specifications called out in this report.

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

This Report must not be used to claim product endorsement by A2LA or any agency of the U.S. Government.

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## 4. Description of Test Item

Date received:	June 28, 2002
Date(s) tested	July 11-19, 2002
Description of EUT	Microsoft Azure – Bluetooth Enabled Keyboard
Condition of EUT:	Operational / Good Condition
Product ID/Model Number	Azure
Serial number	0005F27D047C [radiated]
Hardware Version	0.07
Software Version	0.07

## 5. Test Summary

This test report is prepared for the project of Microsoft Cyan (Bluetooth-enabled mouse).

### 5.1 Summary of Test Results

Specification	Description	Result
FCC 15.247 (C)  Test Method: ANSI 63.4-1992	Radiated Spurious Emissions 1-25GHz  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	Compliant
FCC 15.247 (C)	Radiated Spurious Emissions < 1GHz	Compliant
IC RSS210 6.2.2(o)(e1)	Out of Band Emission	Compliant

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### 6. Documentation of test device

Documentation of the tested device has been reviewed by Hyper Corporation Engineers and found to be in compliance with applicable test specifications. All documentation is kept at Hyper Corporation's Quality Department in the Microsoft Azure EMC Test Folder.

### 7. General and Special Conditions

The EUT was tested using fully charged batteries. Battery voltages were checked often and changed if not at full capacity.

For all transmitter tests a Bluetooth link was established using an Agilent E1852B Bluetooth Test set which allowed continuous transmission of the EUT at low, middle, or high channels at maximum power. The link was checked after each test scan to make sure that it was still established and the EUT had been transmitting during the entire period.

For receiver / standby scans the EUT was put into Connect mode which brought the receiver up until a timeout period was realized. Testing periods were limited to times less than the EUT timeout period and a new Connect mode was initiated before the next test scan.

All testing was done in an indoor controlled environment with an average temperature of 24° C and relative humidity of 54%.

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### 8. Equipment and Cable Configurations / Test Setup

The EUT was tested in a stand-alone configuration that is representative of typical use.

As a stand-alone device there are no cabling considerations.

### 8.1 Measuring Equipment and Calibration Information

Manufacturer Name	Description	Model Number	Serial Number	Cal. Due Date
Agilent Technology, Inc.	PSA Series Spec. Analyzer	E4440A	US40420768	04/23/2003
Com Power	Pre-Amplifier	PA-122	181910	11/07/2002
EMCO	1-18 GHz Horn Antenna	3115	2335	06/21/2002
Micro-tronics	2.4 GHz Notch Filter	BRM50701	2	06/14/2003
Control Co.	Humidity / Temp. Meter	PA-122	181910	05/02/2003
EMCO	1-18 GHz Horn Antenna	3115	9205-3882	10/21/2002
Hewlett Packard	Synth Sweeper	83640A	3036A00294	03/28/2003
Company				
Agilent	BluetoothTest Set	E1852B	DK42070183	N/A
Hewlett Packard Company	Spectrum Analyzer	8568B	2732A03661	5/16/2003
Hewlett Packard Company	Quasi Peak Adapter	85650A	2811A01155	5/16/2003
Hewlett Packard Company	Spectrum Display	85662A	2816A16696	5/16/2003
Hewlett Packard Company	HP 100kHz – 1.3 GHZ Ant. Preamplifier	8447D	2944A06833	8/21/2002
EMCO	Log Periodic Antenna	3146	9107-3163	3/30/2003
Eaton	Biconical Antenna	94455-1	1197	3/30/2003

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### 8.2 Test Setup Block Diagram

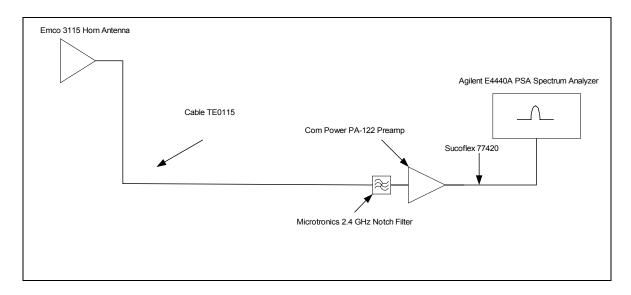


Figure 1. Receive System Setup

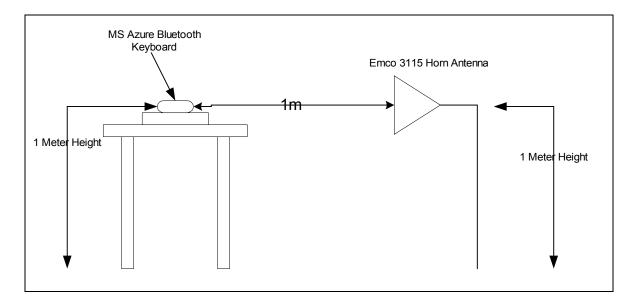


Figure 2. EUT / Receive System Description

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### 8.3 Test Setup Block Diagram 30 MHz - 1GHz

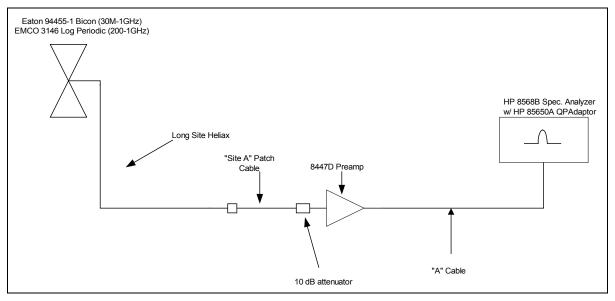


Figure 3. Receive System Setup – 30MHz – 1GHz

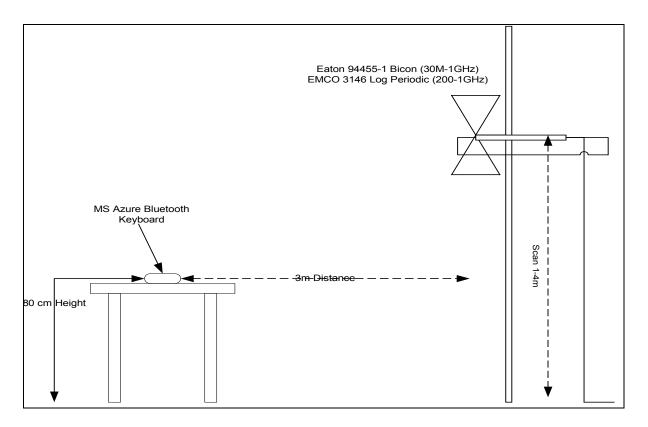


Figure 4 . EUT / Receive System Description – 30MHz – 1GHz

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## 8.4 Test Setup Photos



Photo 1 – MS Azure Keyboard with Bluetooth Test Set - 1m High – 1m from Horn

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Photo 2 – Picture of EUT Test Configuration

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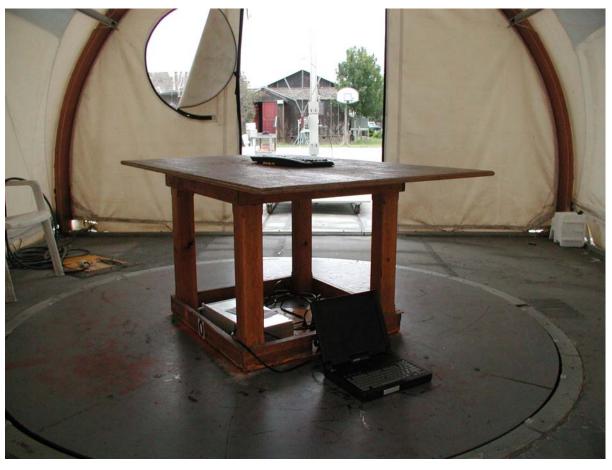


Photo 3 – Test Setup at Compliance Certification Services OATS (30MHz – 1GHz)

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## 9. General Testing Information

## 9.1 Test Facility

Company	Location	Parts Tested
Stratest Labs	1533 California Circle Milpitas, CA 95035	FCC Part 15
Compliance Certification Services	561F Monterey Road San Jose, CA 95037-9001	FCC Part 15

### 9.2 Test Environment

Nominal Temperature	21°C – 24°C
Nominal Humidity	50% – 57%

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#### 10. Test Procedure

### 10.1 Measurement Procedure (1-18 GHz)

The testing was performed according to the procedures in ANSI C63.4-1992. Testing was performed at the Stratest Lab anechoic chamber located in Milpitas, California by the Hyper Corporation engineering staff identified in this report.

10.1.1 System Characterizations / EUT Maximum Power Output Verification

EIRP data was taken on the EUT by measuring the carrier (low, middle, and high bands) without the notch filter inline and maximizing the received signal by rotating the EUT. This was performed for both vertical and horizontal polarizations of the receive antenna. This was not done to fulfill any regulatory requirement, just to ensure that the EUT was tuned for and operating at maximum power. Fully charged batteries were used for the supply voltage.

The EUT was replaced with a substitution antenna fed by a signal generator. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved. The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole.

The results, as shown below, indicate that the EUT is operating with maximum power output.

Frequency (MHz)	Max. Emission Level (dBm)	Sub. Gen Level	Corr. Factor	EIRP (dBm)
2402	-28.81	-3.8	4.2	0.4
2441	-29.34	-4.7	4.7	0
2480	-29.13	-4.8	5	0.2

Table 1. Results of Output Power Verification of EUT

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#### 10.1.2 EUT Testing Procedure

The EUT was tested per ANSI C63.4-1992 at low, middle, and high channels for spurious emissions. For each channel emissions were maximized by rotating the EUT through 360 degrees for both vertical and horizontal orientations of the receive antenna. The EUT was also tested in Standby mode to check spurious emissions coming off the receiver to verify compliance with unintentional radiator requirements. The receiver bandwidth was set to 1MHz per CFR requirements and the detection mode was peak.

Once the maximum emissions from the EUT were determined, their value was determined by the following relationship:

Spur  $(dB\mu V/m)$  = Receive power(dBm)+cable loss(dB)-preamp gain(dB)+filter attenuation+Antenna Factor(dB/m)+107

The spurious emission level could then be compared to the FCC limit to determine compliance. Since the testing distance was less than 3m, an inverse

proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance. In this case, since the test distance is 1m, a correction factor of:

 $20 * \log(3/1) = 9.5 dB$  was used.

The FCC limit at 1m was determined to be 53.9 dB $\mu$ V/m + 9.5 dB = 63.4 dB $\mu$ V/m

The results are presented as Appendix 1.

10.1.3 Measurement Result – Restricted Bands (FCC 15.205(a))

All emissions in restriced bands as specified in FCC15.205 (a) were compliant with the FCC15.209 (a) average detector function limits using the peak detector function.

All results reported were measured using peak detector function and were compliant with the average detection limits of 53.9dBuV/M(@3m). Therefore, the peak measurements were compliant with the requirements of FCC15.35 (b).

### 10.2 Measurement Procedure (18-25 GHz)

Above 18 GHz the range of the test system at Stratest Labs was determined to be insufficient. Engineering tests were performed at Hyper Corp. to determine whether or not any signals were present that would need to be quantified. A bench test in an open area of the lab was set up and a small standard gain horn with a short high frequency

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cable was connected to the PSA Spectrum Analyzer. The loss of the cables and antenna factor of the horn were taken into account to determine the range needed on the spectrum analyzer to measure emissions to the limit at 1m. The necessary range was achieved and emissions could be measured with 6 dB to the limit.

The EUT was exercised in each channel and the device was "sniffed" with the horn (i.e. the horn was oriented in every possible fashion at a close distance to the device) to discern if there were any frequencies that may be an issue and need to be quantified.

No signals were present. This was expected as the signals present at Stratest labs diminished after the second harmonic. Repeating data on emissions measured in the chamber at lower frequencies validated the test system performance.

### 10.3 Measurement Procedure (30 MHz - 1GHz)

The testing was performed according to the procedures in ANSI C63.4-1992. Testing was performed at the Compliance Certification Services (CCS) 3m OATS (Site A) in San Jose, CA. Testing was done by the engineering staff of CCS under the supervision of the EMC engineer identified in this report. The OATS meets the site attenuation requirements of ANSI C63.4-1992 A detailed description of the test facility was submitted to the Commission on May 27,1994 (site ref. 90518).

The EUT was tested per ANSI C63.4-1992 at low, middle, and high channels (continuous transmit mode) for spurious emissions. The EUT was placed on a 1\*1.5m wooden tabletop at 80 cm height. The EUT was 3m away from the measurement antenna.

For each channel emissions were maximized by rotating the EUT through 360 degrees and scanning the antenna 1-4m for both vertical and horizontal orientations of the receive antenna.

The EUT was also tested in Standby mode to check spurious emissions coming off the receiver to verify compliance with unintentional radiator requirements.

The resolution bandwidth of the receiver was 120 kHz and the detector mode was peak. Once the maximum emissions from the EUT were determined, their value was determined by the following relationship:

Spur (dB $\mu$ V/m) = Receive power(dBm)+cable loss(dB)-preamp gain(dB) +Antenna Factor(dB/m)+107

The unit complied with the FCC limits at all frequencies in the peak mode.

The results are presented as Appendix 2.

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### Appendix 1 – Test Data 1-25GHz Worst Case Emissions

#### **Radiated Emissions Testing**

FCC TESTING FINAL RESULTS

MS Azure 1GHz - 18GHz

**Worst Case Orientations** 

Rcvr-Hor: Receiver On - Horizontal Polarization
Rcvr-Vert: Receiver On - Vertical Polarization
Lo-Vert: Lo Channel TX - Vertical Polarization
Lo-Hor: Lo Channel TX - Horizontal Polarization
Lo-Hor: Lo Channel TX - Horizontal Polarization
Hi-Hor: Hi Channel TX - Horizontal Polarization
Hi-Hor: Hi Channel TX - Horizontal Polarization

FCC Limit Above 1GHz @  $1m = 63.4 \frac{dBuV/m}{dBuV/m}$  (53.9 + 9.5 corr. Factor at 20 dB / decade)

Frequency (GHz)	Worst Case Orientation	Spur Level (dBuV/m)	FCC Limit	Margin to Limit	P/F
1.005	Hi-Hor	49.13	63.4	14.27	Р
1.009	Rcvr-Hor	45.80	63.4	17.60	Р
1.012	Rcvr-Hor	47.03	63.4	16.37	Р
1.018	Rcvr-Hor	47.68	63.4	15.72	Р
1.023	Lo-Vert	48.99	63.4	14.41	Р
1.029	Mid-Vert	49.57	63.4	13.83	Р
1.031	Lo-Vert	49.01	63.4	14.39	Р
1.036	Rcvr-Hor	45.93	63.4	17.47	Р
1.041	Lo-Vert	48.75	63.4	14.65	Р
1.049	Mid-Vert	52.90	63.4	10.50	Р
1.057	Lo-Vert	49.61	63.4	13.79	Р
1.063	Lo-Vert	53.52	63.4	9.88	Р
1.072	Hi-Vert	50.30	63.4	13.10	Р
1.082	Mid-Vert	50.08	63.4	13.32	Р
1.102	Mid-Vert	53.85	63.4	9.55	Р
1.113	Lo-Vert	49.58	63.4	13.82	Р
1.130	Mid-Vert	53.40	63.4	10.00	Р
1.136	Hi-Vert	53.30	63.4	10.10	Р
1.138	Lo-Vert	50.50	63.4	12.90	Р
1.144	Lo-Vert	48.67	63.4	14.73	Р
1.149	Hi-Vert	49.09	63.4	14.31	Р
1.156	Lo-Vert	48.66	63.4	14.74	Р
1.163	Mid-Vert	49.93	63.4	13.47	Р
1.169	Hi-Vert	50.47	63.4	12.93	Р

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Frequency (GHz)	Worst Case Orientation	Spur Level (dBuV/m)	FCC Limit	Margin to Limit	P/F
1.175	Mid-Vert	50.40	63.4	13.00	P
1.200	Low-Hor	48.13	63.4	15.27	Р
1.224	Rcvr-Vert	47.64	63.4	15.76	Р
1.240	Hi-Hor	46.99	63.4	16.41	Р
1.330	Mid-Hor	51.64	63.4	11.76	Р
1.354	Rcvr-Hor	46.86	63.4	16.54	Р
1.371	Rcvr-Vert	45.87	63.4	17.53	Р
1.403	Rcvr-Hor	46.78	63.4	16.62	Р
1.420	Hi-Hor	48.80	63.4	14.60	Р
1.487	Mid-Vert	50.63	63.4	12.77	Р
1.527	Lo-Vert	48.43	63.4	14.97	Р
1.528	Mid-Vert	47.10	63.4	16.30	Р
1.532	Hi-Vert	48.01	63.4	15.39	Р
1.552	Lo-Vert	48.07	63.4	15.33	Р
1.572	Low-Hor	45.22	63.4	18.18	Р
1.602	Mid-Vert	49.36	63.4	14.04	Р
1.619	Rcvr-Vert	44.48	63.4	18.92	Р
1.630	Mid-Vert	48.18	63.4	15.22	Р
1.661	Hi-Vert	49.17	63.4	14.23	Р
1.664	Rcvr-Vert	44.43	63.4	18.97	Р
1.695	Hi-Hor	47.10	63.4	16.30	Р
1.726	Hi-Hor	48.22	63.4	15.18	Р
1.731	Lo-Vert	50.90	63.4	12.50	Р
1.738	Hi-Hor	46.20	63.4	17.20	Р
1.762	Mid-Vert	54.99	63.4	8.41	Р
1.776	Hi-Hor	49.28	63.4	14.12	Р
1.795	Mid-Hor	49.99	63.4	13.41	Р
1.828	Rcvr-Hor	50.03	63.4	13.37	Р
1.835	Mid-Hor	46.92	63.4	16.48	Р
1.861	Hi-Vert	49.12	63.4	14.28	Р
1.862	Rcvr-Vert	45.80	63.4	17.60	Р
2.004	Hi-Vert	43.79	63.4	19.61	Р
2.012	Hi-Hor	44.57	63.4	18.83	Р
2.020	Mid-Vert	45.94	63.4	17.46	Р

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Frequency (GHz)	Worst Case Orientation	Spur Level (dBuV/m)	FCC Limit	Margin to Limit	P/F
2.042	Hi-Hor	45.01	63.4	18.39	Р
2.061	Hi-Vert	45.50	63.4	17.90	Р
2.126	Mid-Hor	46.62	63.4	16.78	Р
2.191	Mid-Hor	48.61	63.4	14.79	Р
2.196	Hi-Hor	46.91	63.4	16.49	Р
3.188	Hi-Vert	43.09	63.4	20.31	Р
3.463	Mid-Vert	45.36	63.4	18.04	Р
3.522	Hi-Hor	47.25	63.4	16.15	Р
3.905	Mid-Vert	47.31	63.4	16.09	Р
4.408	Low-Hor	53.06	63.4	10.34	Р
4.540	Low-Hor	55.62	63.4	7.78	Р
4.618	Mid-Vert	55.93	63.4	7.47	Р
4.696	Hi-Vert	55.15	63.4	8.25	Р
4.803	Low-Hor	55.49	63.4	7.91	Р
4.881	Mid-Hor	56.18	63.4	7.22	Р
4.959	Hi-Hor	56.68	63.4	6.72	Р

Table 2: Results of 1-25 GHz Spurious Emissions Testing

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### Plot of Spurious Emissions from EUT

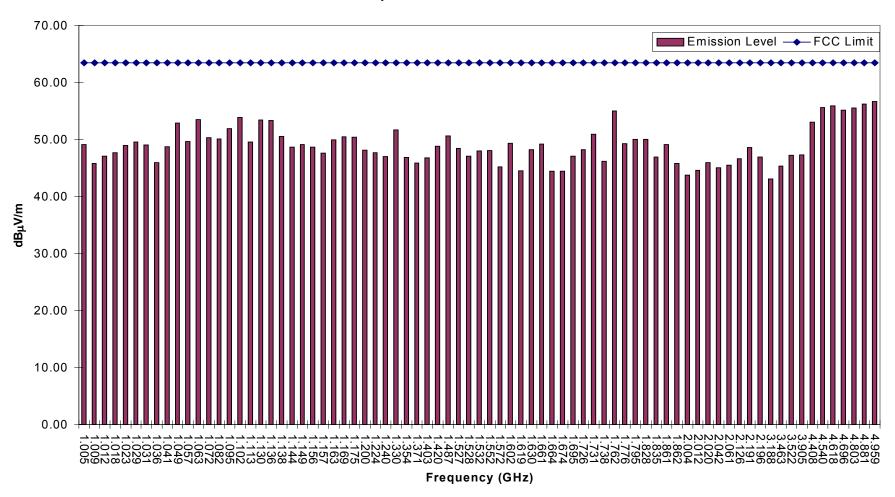


Figure 3. Plot of Spurious Emissions vs. FCC Limit @1m - 1-25GHz

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## Appendix 2 – Test Data 30 MHz -1GHz Worst Case Emissions

**Radiated Emissions Testing** 

FCC TESTING

**FINAL RESULTS - Transmit** 

MS Azure

30 MHz - 1 GHz

See Test Setup Sheet for Details on Configuration

#### **Worst Case Orientations**

Rcvr-Hor: Receiver On - Horizontal Polarization Rcvr-Vert: Receiver On - Vertical Polarization Lo-Vert: Lo Channel TX - Vertical Polarization

Lo-Hor: Lo Channel TX -Horizontal Polarization

Mid-Hor: Mid-Channel TX - Horizontal Polarization Mid-Vert: Mid-Channel TX - Vertical Polarization Hi-Vert: Hi Channel TX - Vertical Polarization

Hi-Hor: Hi Channel TX - Horizontal Polarization

Frequency (MHz)	Worst Case Orientation	Spur Level (dBuV/m)	FCC Limit	Margin to Limit	P/F
34.82	Hi-Vert	29.41	40	10.59	Р
34.83	Mid-Vert	30.91	40	9.09	Р
35.00	Lo-Vert	26.53	40	13.47	Р
42.10	Lo-Vert	33.12	40	6.88	Р
48.00	Lo-Vert	30.17	40	9.83	Р
48.70	Mid-Vert	28.25	40	11.75	Р
48.82	Hi-Vert	27.79	40	12.21	Р
74.09	Lo-Vert	24.47	40	15.53	Р
74.70	Mid-Vert	24.27	40	15.73	Р
78.10	Hi-Vert	26.53	40	13.47	Р
84.13	Hi-Vert	27.30	40	12.70	Р
133.00	Mid-Vert	31.32	43.5	12.18	Р
147.21	Rcvr-Vert	29.26	43.5	14.24	Р
172.30	Rcvr-Vert	27.03	43.5	16.47	Р
222.48	Mid-Vert	27.29	46	18.71	Р
222.49	Lo-Vert	27.39	46	18.61	Р
224.00	Hi-Vert	29.76	46	16.24	Р
229.64	Lo-Vert	38.43	46	7.57	Р
224.00	Hi-Vert	29.76	46	16.24	Р
229.64	Lo-Vert	38.43	46	7.57	Р
229.64	Mid-Vert	37.93	46	8.07	Р
235.00	Lo-Vert	32.99	46	13.01	Р
235.64	Mid-Vert	32.02	46	13.98	Р
240.00	Lo-Vert	33.54	46	12.46	Р
241.40	Mid-Vert	29.20	46	16.80	Р
266.00	Lo-Vert	38.22	46	7.78	Р

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Frequency (MHz)	Worst Case Orientation	Spur Level (dBuV/m)	FCC Limit	Margin to Limit	P/F
266.00	Mid-Vert	39.22	46	6.78	Р
272.00	Hi-Vert	31.20	46	14.80	Р
332.02	Mid-Vert	41.85	46	4.15	Р
332.50	Lo-Vert	40.85	46	5.15	Р
332.87	Mid-Vert	41.35	46	4.65	Р
409.57	Rcvr-Vert	30.17	46	15.83	Р
514.50	Rcvr-Vert	33.43705	46	12.56	Р

Table 3 – Worst Case Peak Spurious Emissions 30MHz – 1GHz

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### **Plot of Spurious Emissions from EUT**

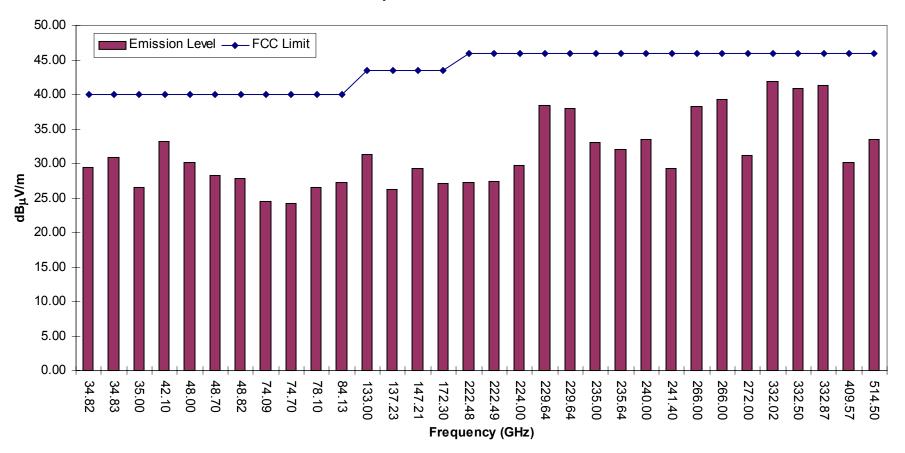


Figure 4. Plot of Spurious Emissions vs. FCC Limit 30MHz-1GHz

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