

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT  
INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C

Product Name: Studio Qi Wireless Charger PAD

MODEL No.: F7U085

Trademark: BELKIN

FCC ID: K7SF7U085

REPORT NO.: ES190115017W01

ISSUE DATE: January 30, 2019

*Prepared for*

Belkin International, Inc.  
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

*Prepared by*

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APPENDIX : Photos of EUT

## TEST REPORT DESCRIPTION

Applicant : Belkin International, Inc.  
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

Manufacturer : Belkin International, Inc.  
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

Trade Mark : BELKIN

EUT : Studio Qi Wireless Charger PAD


Model No. : F7U085

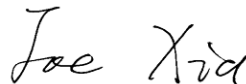
### We hereby certify that:


The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : January 08, 2019 to January 30, 2019

Prepared by :   
Yaping Shen/Editor

Reviewer :   
Joe Xia/Supervisor

Approved & Authorized Signer :   
Lisa Wang/Manager



## Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ES190115017W01	/	Original Version

## 1. SUMMARY OF TEST RESULTS

<b>EMISSION</b>		
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
Note: N/A is an abbreviation for Not Applicable.		

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT	:	Studio Qi Wireless Charger PAD
Model Number	:	F7U085
Power Supply	:	AC 100-240V 50/60Hz 0.45A Max
Adapter	:	Model: W0920U-1U05F Input: AC 100-240V~50/60Hz,0.45mA Output: DC 3.6V-6V 3A, DC6V-9V 2A 9V-12V 1.5A
Operating Frequency	:	111-205KHz
Modulation Technique	:	FSK
Classification	:	Type 3 (Category I Radio Apparatus)
Antenna Type	:	Integral Antenna(Induction coil)
Date of Received	:	January 08, 2019
Date of Test	:	January 08, 2019 to January 30, 2019

### 2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
2	Micro USB port	I/O	No	Shielded(1.2m)	1 ports
<p>* Note: For the purposes of the present document, the following symbols apply:</p> <p>AC AC Power Port  DC DC Power Port  N/E Non-Electrical  I/O Signal Input or Output Port (Not Involved in Process Control)  TP Telecommunication Ports</p>					

### 2.3. Independent Operation Modes

- A ON
1. Charging(10W RX Load operating at center)
  2. Charging(10W RX Load with 3mm airgap at center)
- B Stand-By

Note : The test use coils with strong signals.

### 2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A&B
Radiated Emission	AC 120V/60Hz	Mode A&B

### 2.5. Description of Test Facility

#### Site Description

EMC Lab. : Accredited by CNAS, 2016.10.24  
 The certificate is valid until 2022.10.28  
 The Laboratory has been assessed and proved to be in compliance with  
 CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)  
 The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19  
 The Laboratory has been assessed according to the requirements  
 ISO/IEC 17025.

Accredited by FCC, August 06, 2018  
 The certificate is valid until August 07, 2020  
 Designation Number: CN1204  
 Test Firm Registration Number: 882943

Accredited by Industry Canada, November 09, 2018  
 The Conformity Assessment Body Identifier is CN0008.

Accredited by A2LA, July 31, 2017  
 The Certificate Number is 4321.01.

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,  
 Guangdong, China

### 2.6. Test Software

Item Software

Conducted Emission : EMTEK(Ver.CON-03A1)-Shenzhen

Radiated Emission : EMTEK(Ver.RA-03A1)-Shenzhen

## 2.7. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	Load	N/A	N/A	N/A	N/A

## 2.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)



### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Power Line Conducted Emission Measurement

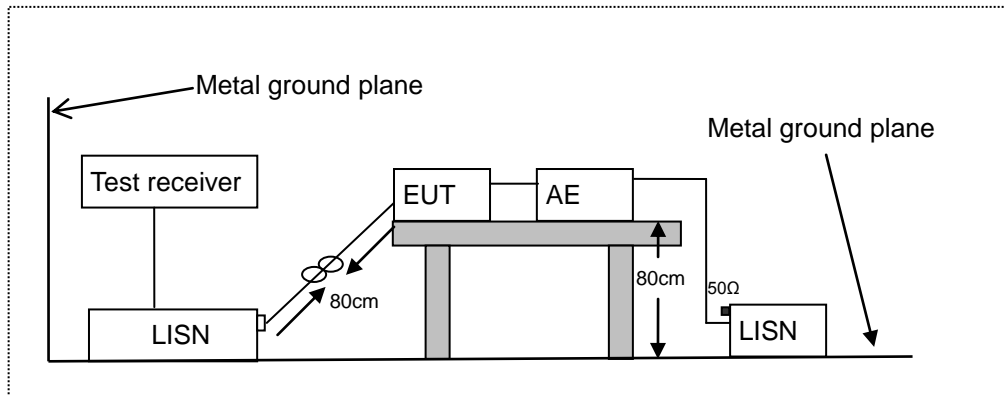
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100191	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2018	1 Year

#### 3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	HP	8447F	2944A07999	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Bilog Antenna	Schwarzbeck	VULB9163	142	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	ACRX1	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	Rosenberger	N/A	FP2RX2	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	CRPX1	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	CRRX2	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	A.H.	PAM-0126	1415261	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9120	707	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	0.5M SF104-26.5	289147/4	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	3M SF104-26.5	295838/4	May 20, 2018	1 Year
<input checked="" type="checkbox"/>	Cable	H+B	6M SF104-26.5	295840/4	May 20, 2018	1 Year

## 4. POWER LINE CONDUCTED EMISSION MEASUREMENT

### 4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network  
 AE: Associated equipment  
 EUT: Equipment under test

### 4.2. Limits

FCC Part 15.207

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.  
 NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

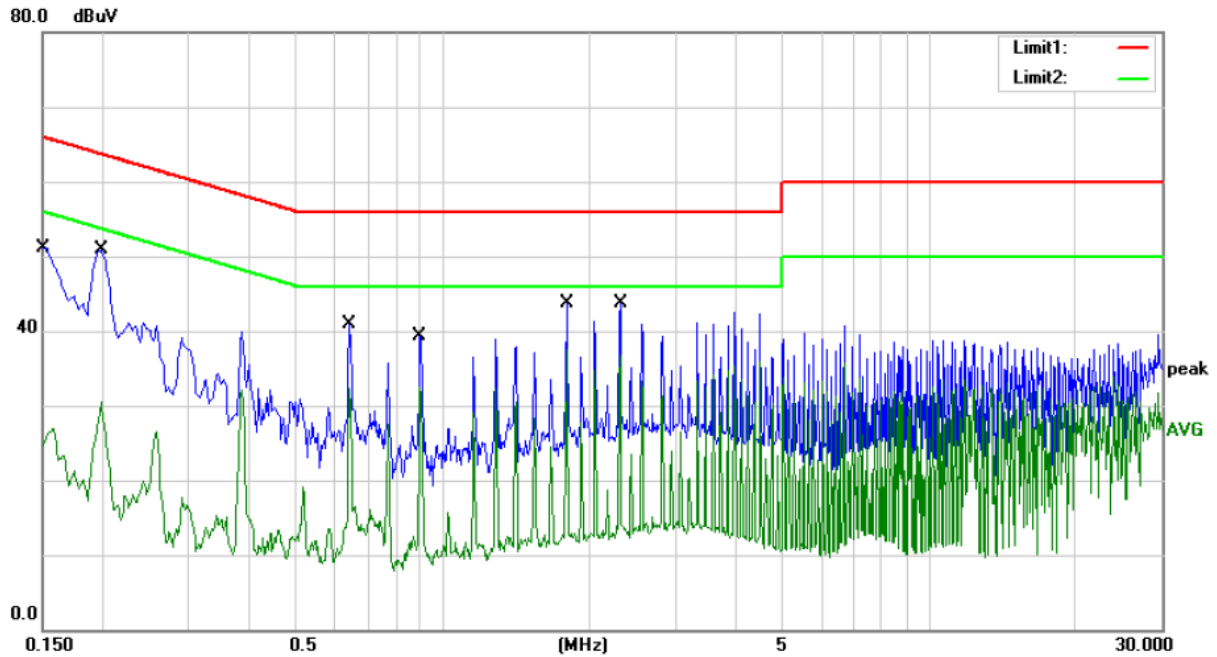
Test results were obtained from the following equation:

Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

#### 4.4. Measuring Results

**PASS.**



Site Conduction #2

Phase: **L1**

Temperature: 23.7

Limit: (CE)FCC PART 15 C

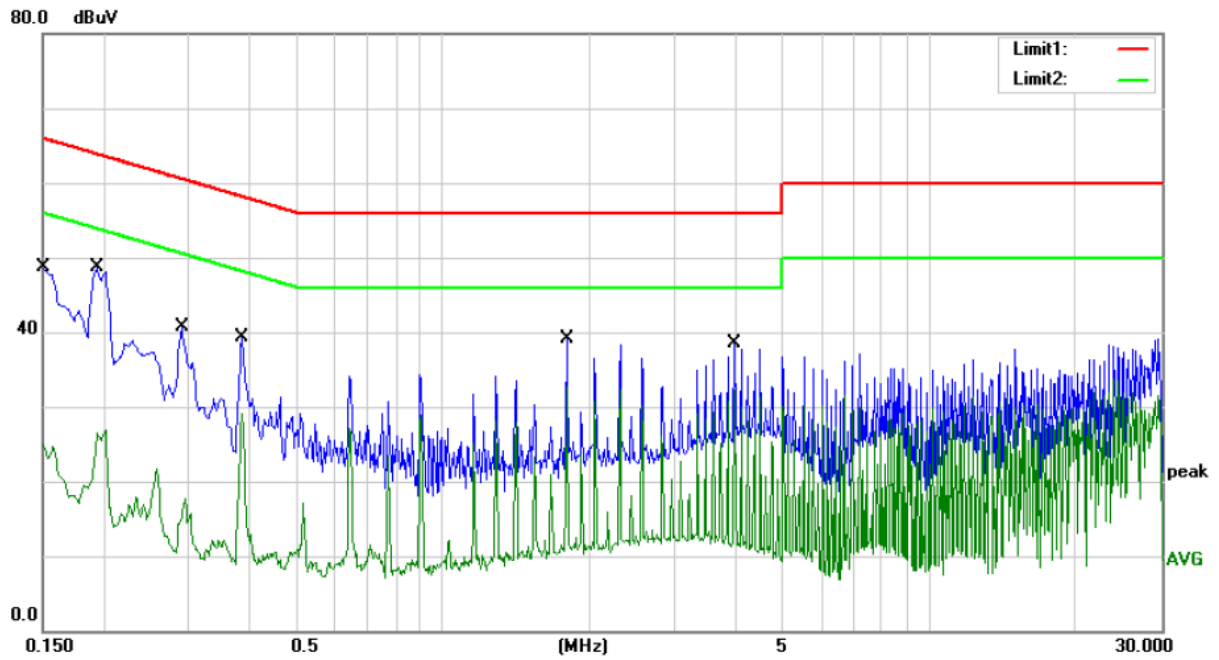
Power: AC 120V/60Hz

Humidity: 41 %

Mode: Charging(10W RX Load operating at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	41.18	9.89	51.07	66.00	-14.93	QP	
2		0.1500	17.10	9.89	26.99	56.00	-29.01	AVG	
3		0.1980	41.00	9.90	50.90	63.69	-12.79	QP	
4		0.1980	20.68	9.90	30.58	53.69	-23.11	AVG	
5		0.6420	31.05	9.92	40.97	56.00	-15.03	QP	
6		0.6420	22.38	9.92	32.30	46.00	-13.70	AVG	
7		0.8980	29.40	9.93	39.33	56.00	-16.67	QP	
8		0.8980	22.52	9.93	32.45	46.00	-13.55	AVG	
9		1.7980	33.79	9.93	43.72	56.00	-12.28	QP	
10	*	1.7980	27.56	9.93	37.49	46.00	-8.51	AVG	
11		2.3100	33.75	9.94	43.69	56.00	-12.31	QP	
12		2.3100	26.81	9.94	36.75	46.00	-9.25	AVG	



Site Conduction #2

Phase: **N**

Temperature: 23.7

Limit: (CE)FCC PART 15 C

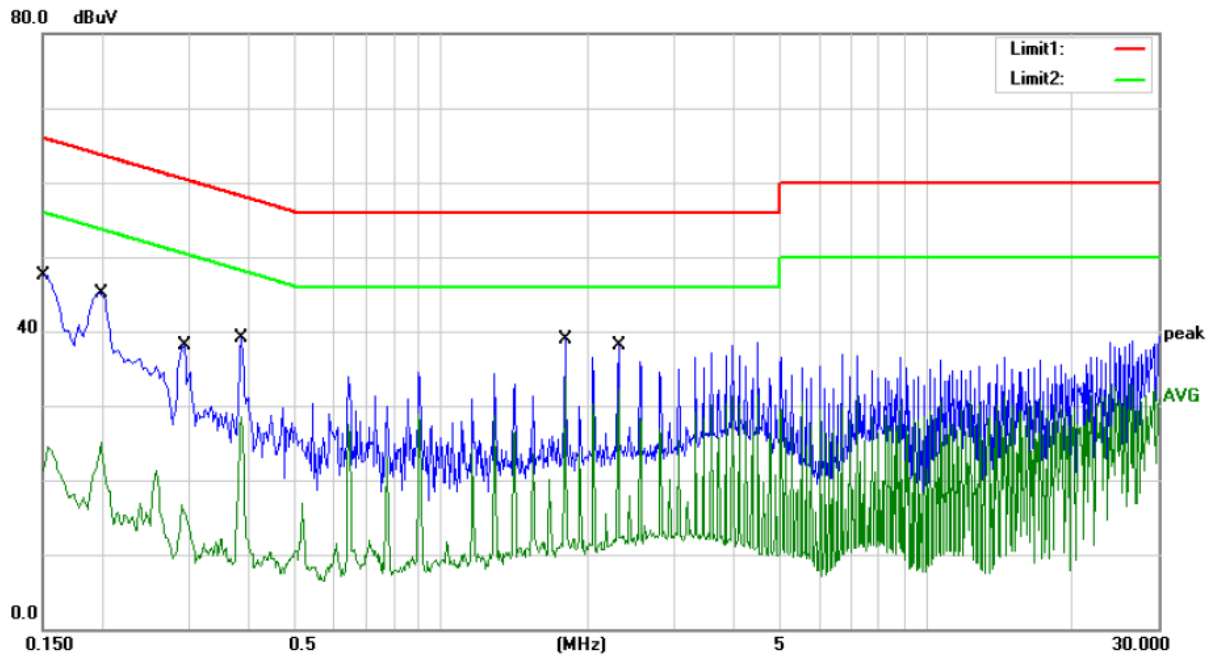
Power: AC 120V/60Hz

Humidity: 41 %

Mode: Charging(10W RX Load operating at center)

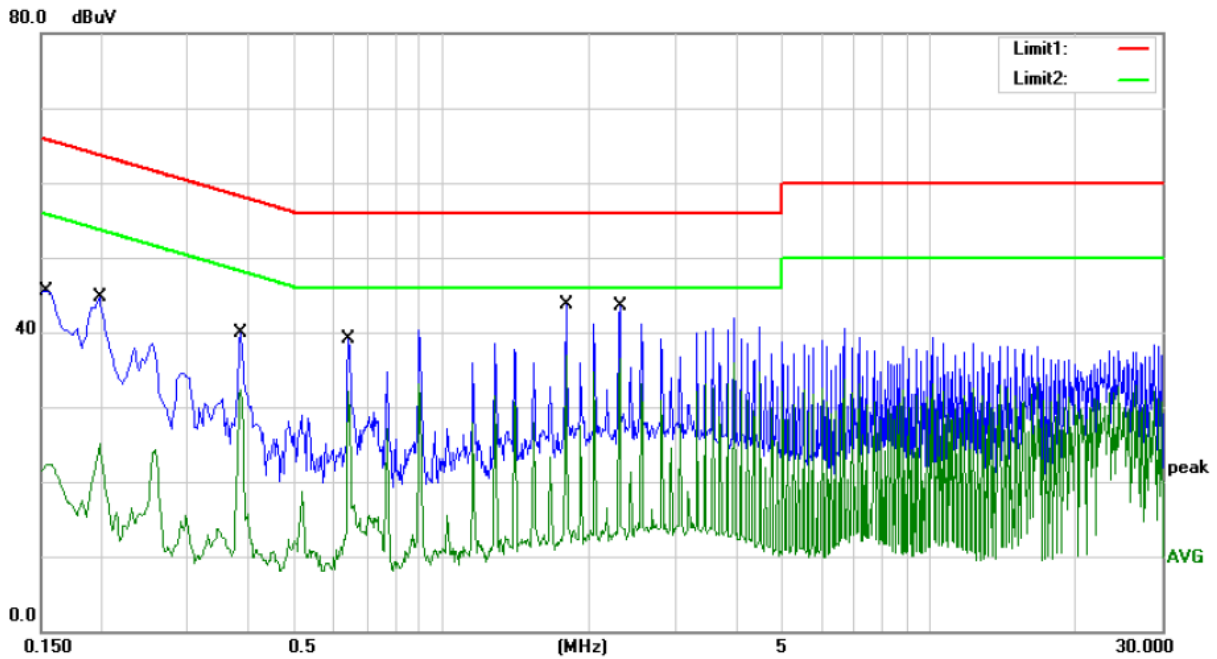
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	38.73	9.89	48.62	66.00	-17.38	QP	
2		0.1500	15.55	9.89	25.44	56.00	-30.56	AVG	
3		0.1940	38.83	9.90	48.73	63.86	-15.13	QP	
4		0.1940	17.03	9.90	26.93	53.86	-26.93	AVG	
5		0.2900	30.77	9.91	40.68	60.52	-19.84	QP	
6		0.2900	7.82	9.91	17.73	50.52	-32.79	AVG	
7		0.3860	29.37	9.91	39.28	58.15	-18.87	QP	
8		0.3860	19.10	9.91	29.01	48.15	-19.14	AVG	
9		1.7980	29.13	9.93	39.06	56.00	-16.94	QP	
10	*	1.7980	22.84	9.93	32.77	46.00	-13.23	AVG	
11		3.9780	28.53	9.94	38.47	56.00	-17.53	QP	
12		3.9780	22.35	9.94	32.29	46.00	-13.71	AVG	



Site Conduction #2 Phase: **N** Temperature: 23.7  
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 41 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	37.70	9.89	47.59	66.00	-18.41	QP	
2		0.1500	14.55	9.89	24.44	56.00	-31.56	AVG	
3		0.1980	35.16	9.90	45.06	63.69	-18.63	QP	
4		0.1980	15.28	9.90	25.18	53.69	-28.51	AVG	
5		0.2940	28.10	9.91	38.01	60.41	-22.40	QP	
6		0.2940	6.79	9.91	16.70	50.41	-33.71	AVG	
7		0.3860	29.23	9.91	39.14	58.15	-19.01	QP	
8		0.3860	18.66	9.91	28.57	48.15	-19.58	AVG	
9		1.7980	29.00	9.93	38.93	56.00	-17.07	QP	
10	*	1.7980	23.79	9.93	33.72	46.00	-12.28	AVG	
11		2.3100	28.23	9.94	38.17	56.00	-17.83	QP	
12		2.3100	22.33	9.94	32.27	46.00	-13.73	AVG	



Site Conduction #2

Phase: **L1**

Temperature: 23.7

Limit: (CE)FCC PART 15 C

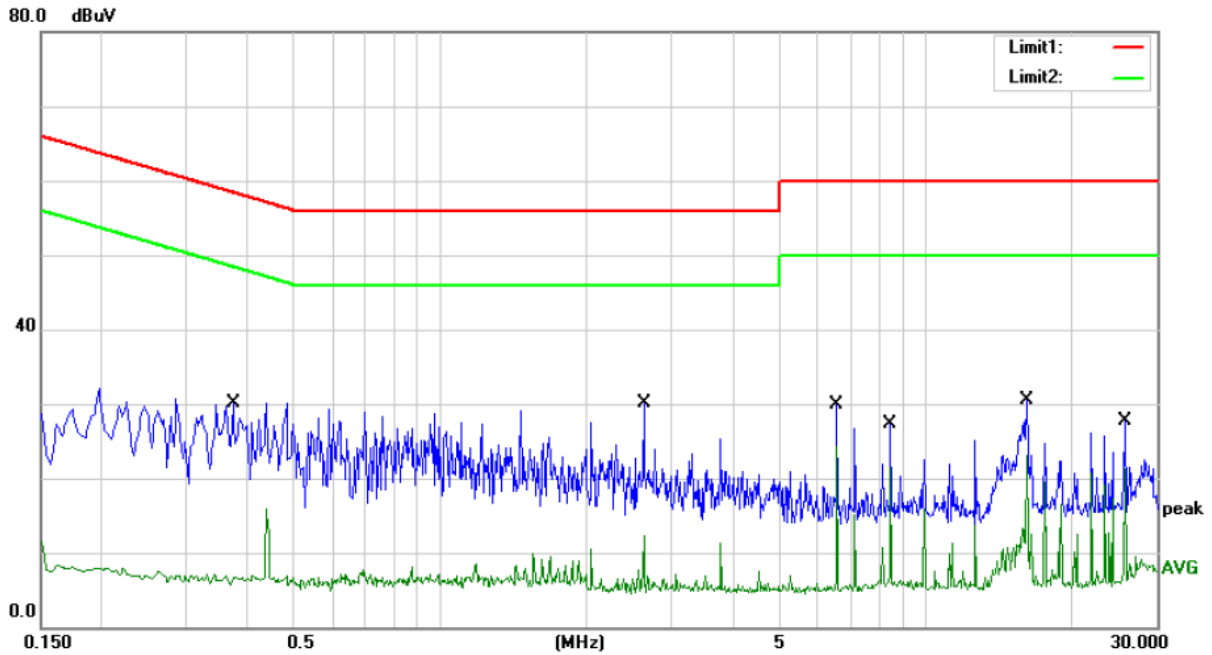
Power: AC 120V/60Hz

Humidity: 41 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	35.66	9.90	45.56	65.78	-20.22	QP	
2		0.1540	12.39	9.90	22.29	55.78	-33.49	AVG	
3		0.1980	34.83	9.90	44.73	63.69	-18.96	QP	
4		0.1980	15.19	9.90	25.09	53.69	-28.60	AVG	
5		0.3860	30.09	9.91	40.00	58.15	-18.15	QP	
6		0.3860	22.40	9.91	32.31	48.15	-15.84	AVG	
7		0.6420	29.13	9.92	39.05	56.00	-16.95	QP	
8		0.6420	22.24	9.92	32.16	46.00	-13.84	AVG	
9		1.7980	33.81	9.93	43.74	56.00	-12.26	QP	
10	*	1.7980	26.93	9.93	36.86	46.00	-9.14	AVG	
11		2.3100	33.60	9.94	43.54	56.00	-12.46	QP	
12		2.3100	26.52	9.94	36.46	46.00	-9.54	AVG	



Site Conduction #2

Phase: *N*

Temperature: 23.7

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

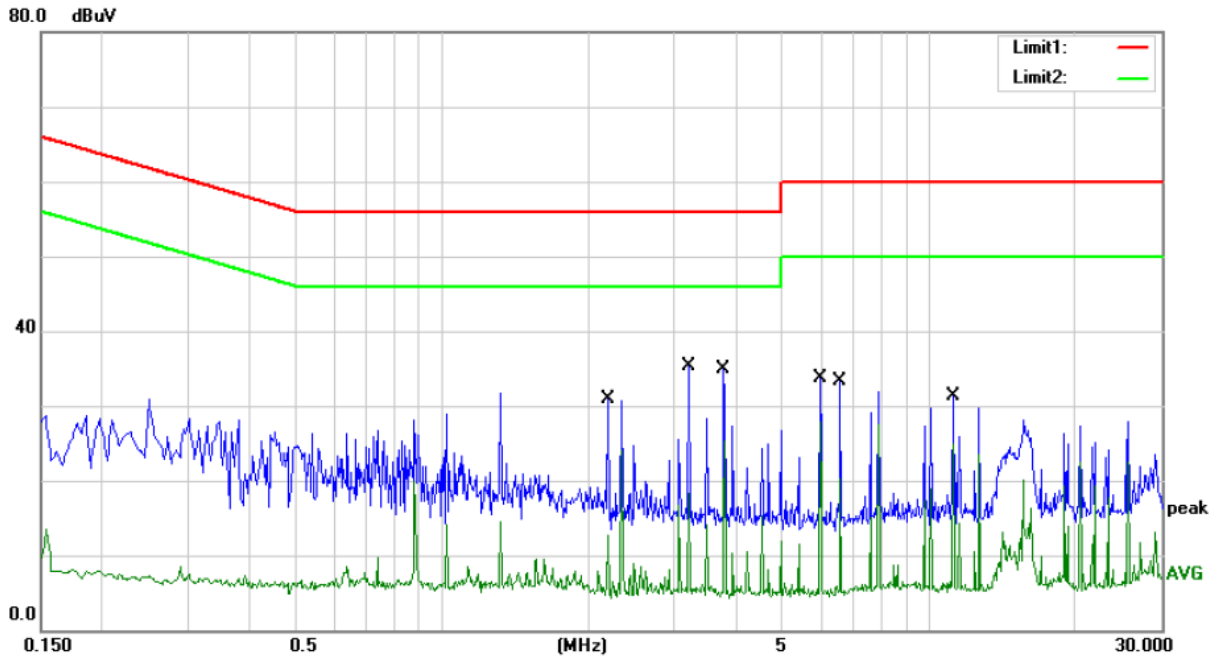
Humidity: 41 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3740	20.27	9.91	30.18	58.41	-28.23	QP	
2		0.3740	-3.01	9.91	6.90	48.41	-41.51	AVG	
3		2.6300	20.18	9.94	30.12	56.00	-25.88	QP	
4		2.6300	2.34	9.94	12.28	46.00	-33.72	AVG	
5		6.5660	19.94	9.98	29.92	60.00	-30.08	QP	
6	*	6.5660	14.37	9.98	24.35	50.00	-25.65	AVG	
7		8.4620	17.37	10.00	27.37	60.00	-32.63	QP	
8		8.4620	11.51	10.00	21.51	50.00	-28.49	AVG	
9		16.1940	20.43	10.06	30.49	60.00	-29.51	QP	
10		16.1940	13.04	10.06	23.10	50.00	-26.90	AVG	
11		25.8260	17.36	10.28	27.64	60.00	-32.36	QP	
12		25.8260	11.08	10.28	21.36	50.00	-28.64	AVG	





Site Conduction #2

Phase: **L1**

Temperature: 23.7

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 41 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		2.1940	21.02	9.94	30.96	56.00	-25.04	QP	
2		2.1940	2.71	9.94	12.65	46.00	-33.35	AVG	
3	*	3.2140	25.45	9.94	35.39	56.00	-20.61	QP	
4		3.2140	8.43	9.94	18.37	46.00	-27.63	AVG	
5		3.7980	24.92	9.94	34.86	56.00	-21.14	QP	
6		3.7980	15.45	9.94	25.39	46.00	-20.61	AVG	
7		5.9900	23.72	9.97	33.69	60.00	-26.31	QP	
8		5.9900	17.87	9.97	27.84	50.00	-22.16	AVG	
9		6.5740	23.37	9.98	33.35	60.00	-26.65	QP	
10		6.5740	10.32	9.98	20.30	50.00	-29.70	AVG	
11		11.2460	21.28	10.02	31.30	60.00	-28.70	QP	
12		11.2460	14.88	10.02	24.90	50.00	-25.10	AVG	

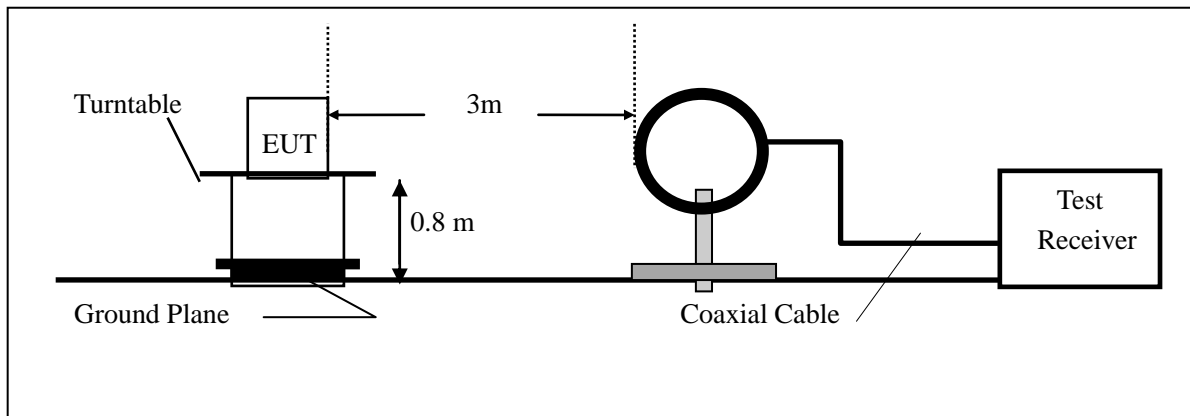
## 5. RADIATED EMISSION TEST

### 5.1. Measurement Procedure

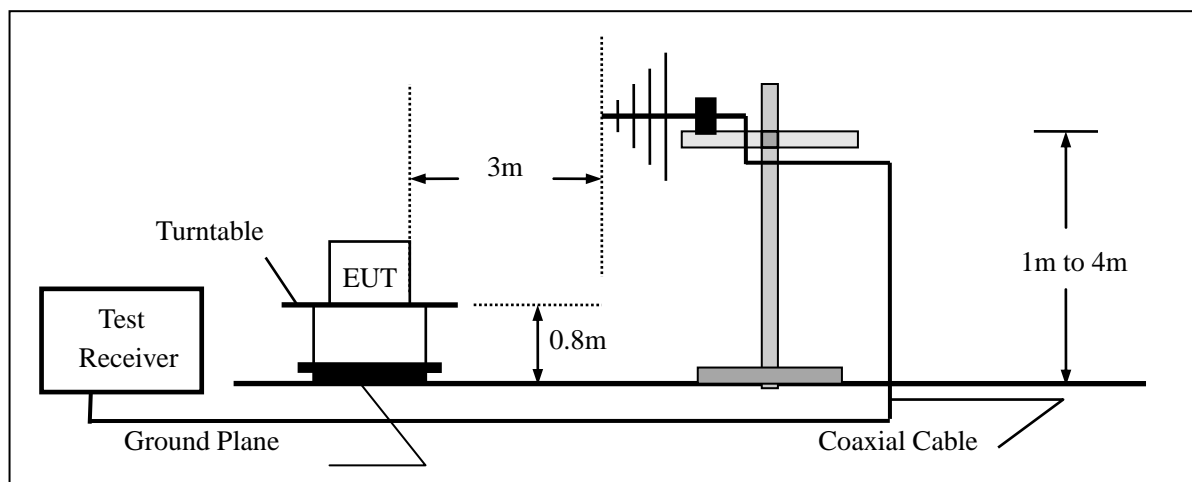
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW=200Hz for 9KHz to 150KHz,  
RBW=9kHz for 150KHz to 30MHz,  
RBW=120KHz for 30MHz to 1GHz  
VBW  $\geq$  3\*RBW  
Sweep = auto  
Detector function = QP  
Trace = max hold

### 5.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



### 5.3. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/20/2018	05/20/2019
Pre-Amplifier	HP	8447D	2944A07999	05/20/2018	05/20/2019
Bilog Antenna	Schwarzbeck	VULB9163	142	05/20/2018	05/20/2019
Loop Antenna	ARA	PLA-1030/B	1029	05/20/2018	05/20/2019
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/20/2018	05/20/2019
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	ACRX1	05/20/2018	05/20/2019
Cable	Rosenberger	N/A	FP2RX2	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	CRPX1	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	CRRX2	05/20/2018	05/20/2019

### 5.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

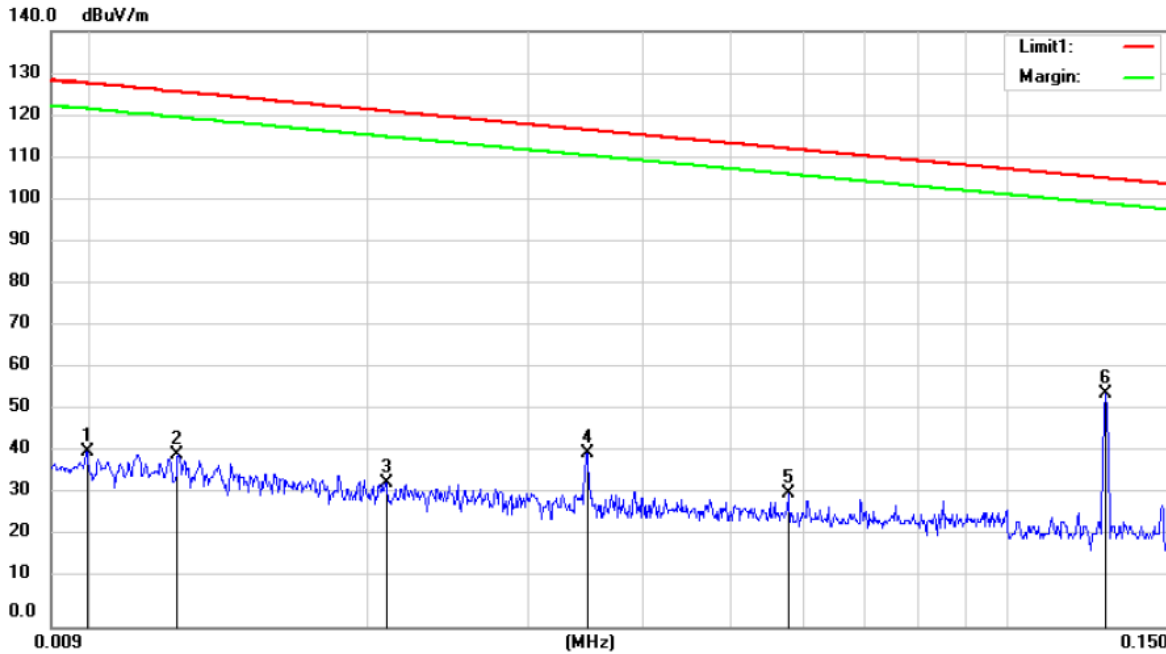
## 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi$  15.205, and the emissions located in restricted bands also comply with 15.209 limit.

## 5.5.Measurement Result

9KHz-150KHz:



Site 3m Chamber #3

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15 C

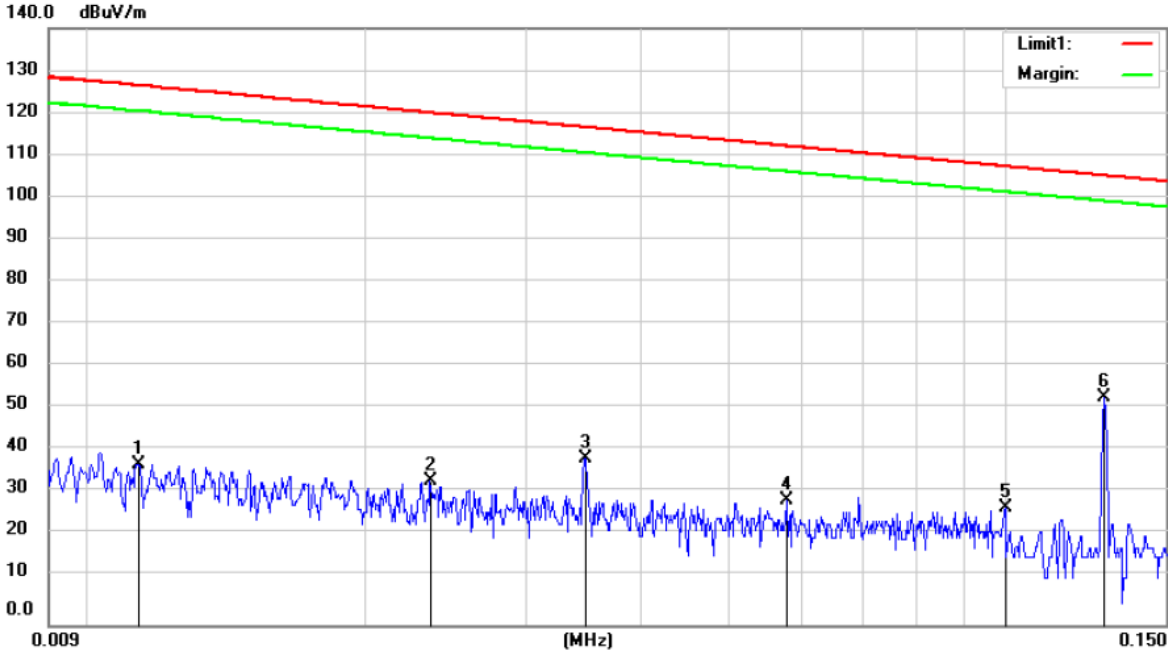
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load operating at center)

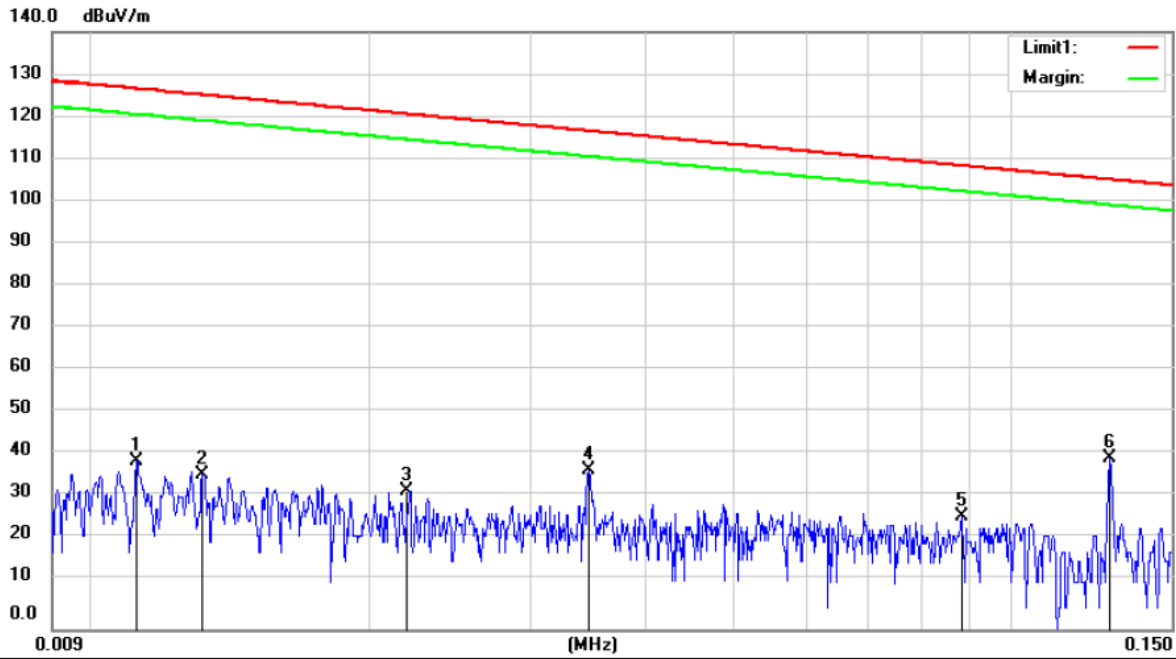
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0098	20.38	20.60	40.98	127.76	-86.78	QP		
2		0.0123	19.89	20.55	40.44	125.79	-85.35	QP		
3		0.0210	13.44	20.42	33.86	121.14	-87.28	QP		
4		0.0347	20.16	20.64	40.80	116.78	-75.98	QP		
5		0.0576	10.82	20.66	31.48	112.39	-80.91	QP		
6	*	0.1281	34.02	20.60	54.62	105.45	-50.83	QP		



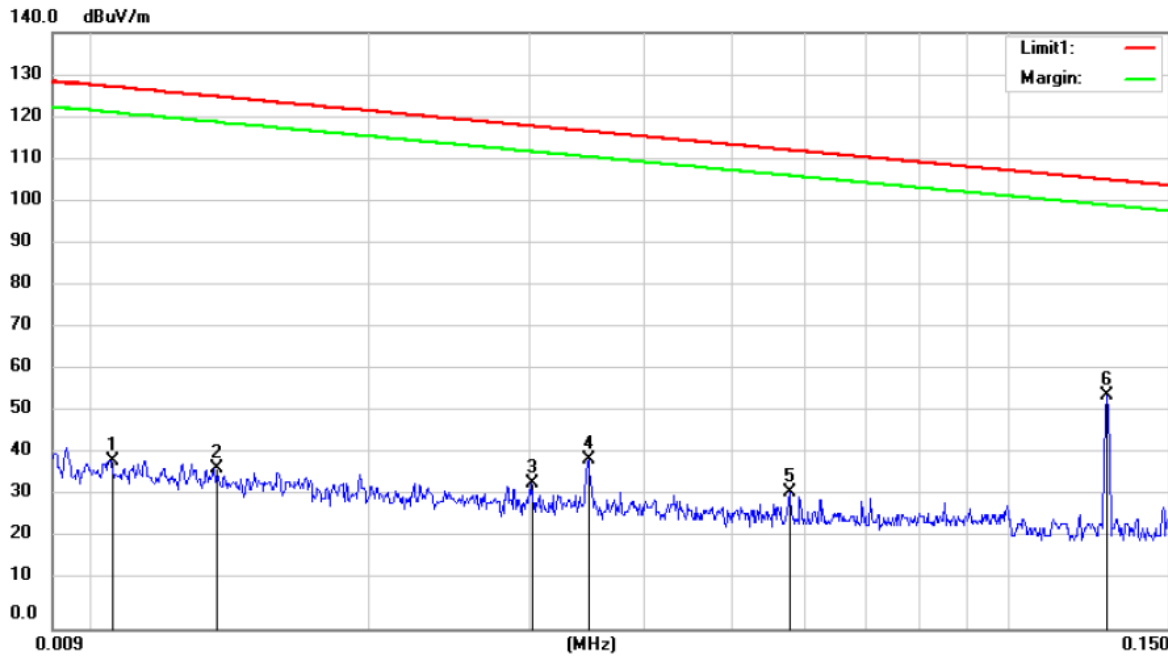
Site 3m Chamber #3 Polarization: **Y** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load operating at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0112	17.11	20.58	37.69	126.60	-88.91			QP
2		0.0235	13.41	20.46	33.87	120.17	-86.30			QP
3		0.0347	18.42	20.64	39.06	116.78	-77.72			QP
4		0.0576	8.40	20.66	29.06	112.39	-83.33			QP
5		0.1000	6.81	20.60	27.41	107.60	-80.19			QP
6	*	0.1285	32.67	20.60	53.27	105.42	-52.15			QP



Site 3m Chamber #3      Polarization: **Z**      Temperature: 27 C  
 Limit: (RE)FCC PART 15 C      Power: AC 120V/60Hz      Humidity: 49 %  
 Mode: Charging(10W RX Load operating at center)  
 Note:

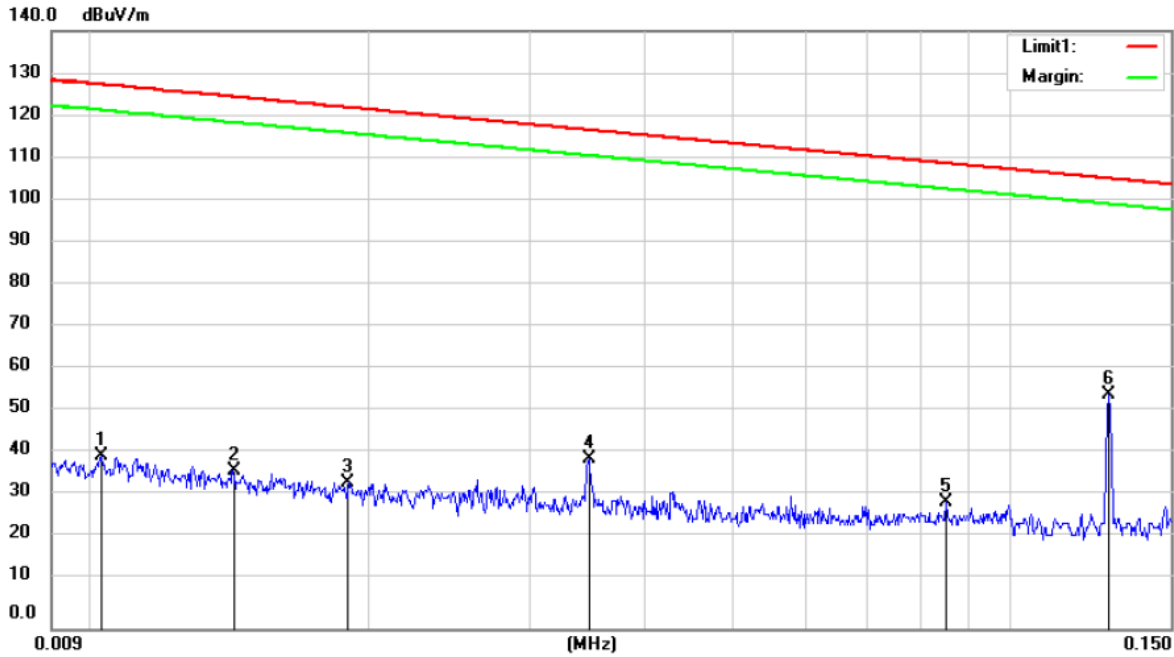
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0111	18.69	20.58	39.27	126.68	-87.41			QP
2		0.0131	15.78	20.54	36.32	125.24	-88.92			QP
3		0.0220	12.09	20.43	32.52	120.74	-88.22			QP
4		0.0346	16.56	20.64	37.20	116.81	-79.61			QP
5		0.0883	6.11	20.37	26.48	108.68	-82.20			QP
6	*	0.1284	19.49	20.60	40.09	105.43	-65.34			QP



Site 3m Chamber #3 Polarization: X Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

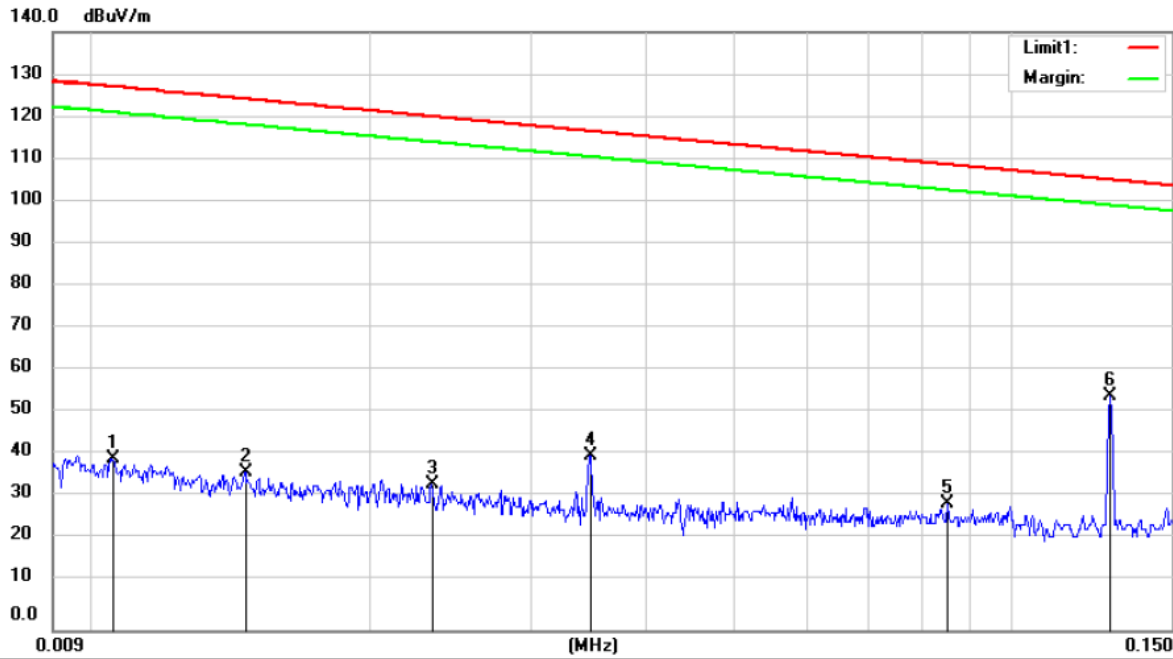
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0104	18.86	20.59	39.45	127.24	-87.79	QP		
2		0.0135	17.11	20.53	37.64	124.98	-87.34	QP		
3		0.0301	13.72	20.57	34.29	118.02	-83.73	QP		
4		0.0347	19.26	20.64	39.90	116.78	-76.88	QP		
5		0.0576	11.24	20.66	31.90	112.39	-80.49	QP		
6	*	0.1281	34.02	20.60	54.62	105.45	-50.83	QP		





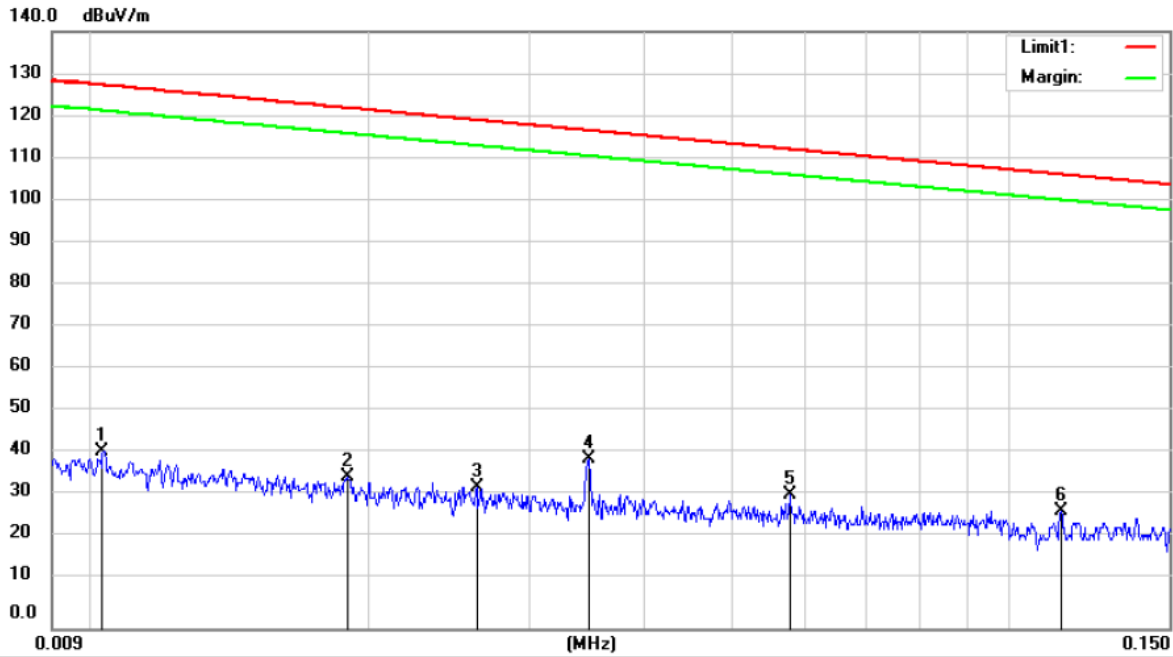
Site 3m Chamber #3 Polarization: **Y** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0102	19.87	20.60	40.47	127.41	-86.94			QP
2		0.0142	16.35	20.52	36.87	124.54	-87.67			QP
3		0.0190	13.77	20.42	34.19	122.01	-87.82			QP
4		0.0347	19.09	20.64	39.73	116.78	-77.05			QP
5		0.0851	9.12	20.30	29.42	109.00	-79.58			QP
6	*	0.1281	34.02	20.60	54.62	105.45	-50.83			QP



Site 3m Chamber #3 Polarization: **Z** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0104	19.50	20.59	40.09	127.24	-87.15			QP
2		0.0146	16.35	20.51	36.86	124.30	-87.44			QP
3		0.0233	13.72	20.45	34.17	120.24	-86.07			QP
4		0.0347	20.16	20.64	40.80	116.78	-75.98			QP
5		0.0851	9.12	20.30	29.42	109.00	-79.58			QP
6	*	0.1281	34.02	20.60	54.62	105.45	-50.83			QP



Site 3m Chamber #3

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15 C

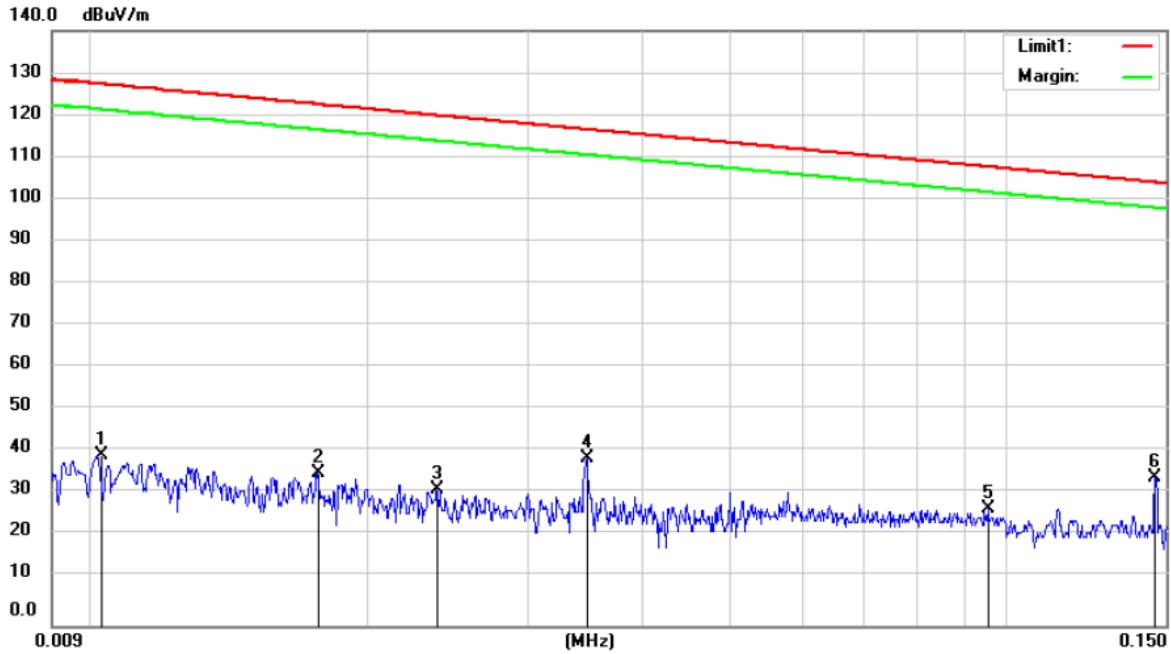
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand-By

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0102	21.05	20.60	41.65	127.41	-85.76	QP		
2		0.0190	15.15	20.42	35.57	122.01	-86.44	QP		
3		0.0262	12.59	20.50	33.09	119.22	-86.13	QP		
4	*	0.0347	19.09	20.64	39.73	116.78	-77.05	QP		
5		0.0576	10.82	20.66	31.48	112.39	-80.91	QP		
6		0.1142	6.81	20.60	27.41	106.44	-79.03	QP		



Site 3m Chamber #3

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15 C

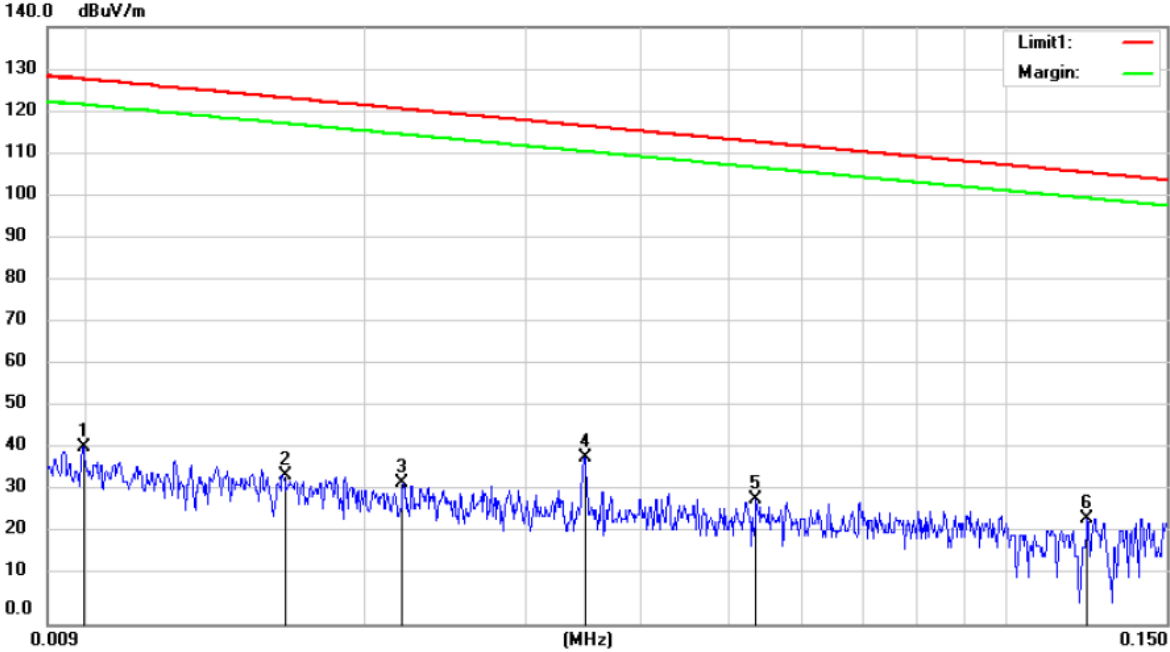
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand-By

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0101	19.49	20.60	40.09	127.50	-87.41	QP		
2		0.0176	15.40	20.45	35.85	122.68	-86.83	QP		
3		0.0238	11.70	20.46	32.16	120.06	-87.90	QP		
4		0.0347	18.68	20.64	39.32	116.78	-77.46	QP		
5		0.0956	6.83	20.51	27.34	107.99	-80.65	QP		
6	*	0.1457	14.07	20.60	34.67	104.33	-69.66	QP		



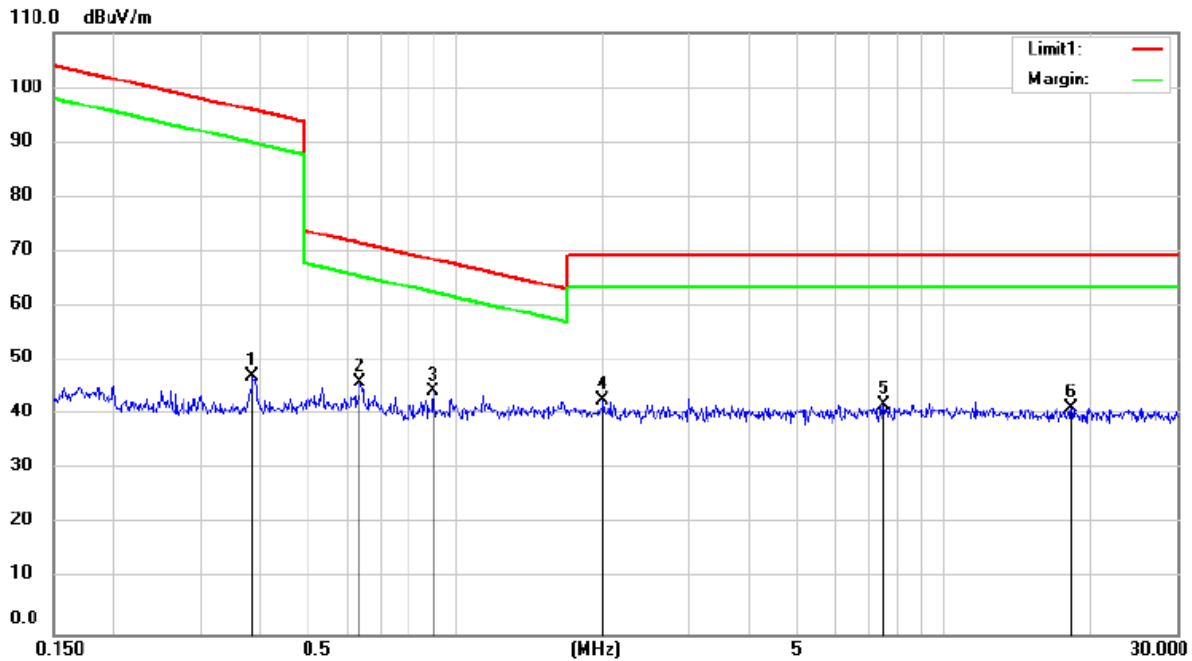
Site 3m Chamber #3  
 Limit: (RE)FCC PART 15 C  
 Mode: Stand-By  
 Note:

Polarization: **Z**  
 Power: AC 120V/60Hz

Temperature: 27 C  
 Humidity: 49 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0098	20.85	20.60	41.45	127.76	-86.31			QP
2		0.0162	14.48	20.48	34.96	123.40	-88.44			QP
3		0.0220	12.62	20.43	33.05	120.74	-87.69			QP
4	*	0.0347	18.24	20.64	38.88	116.78	-77.90			QP
5		0.0534	8.40	20.79	29.19	113.04	-83.85			QP
6		0.1228	4.08	20.60	24.68	105.81	-81.13			QP

150KHz-30MHz:



Site: 3m Chamber #3

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15 C

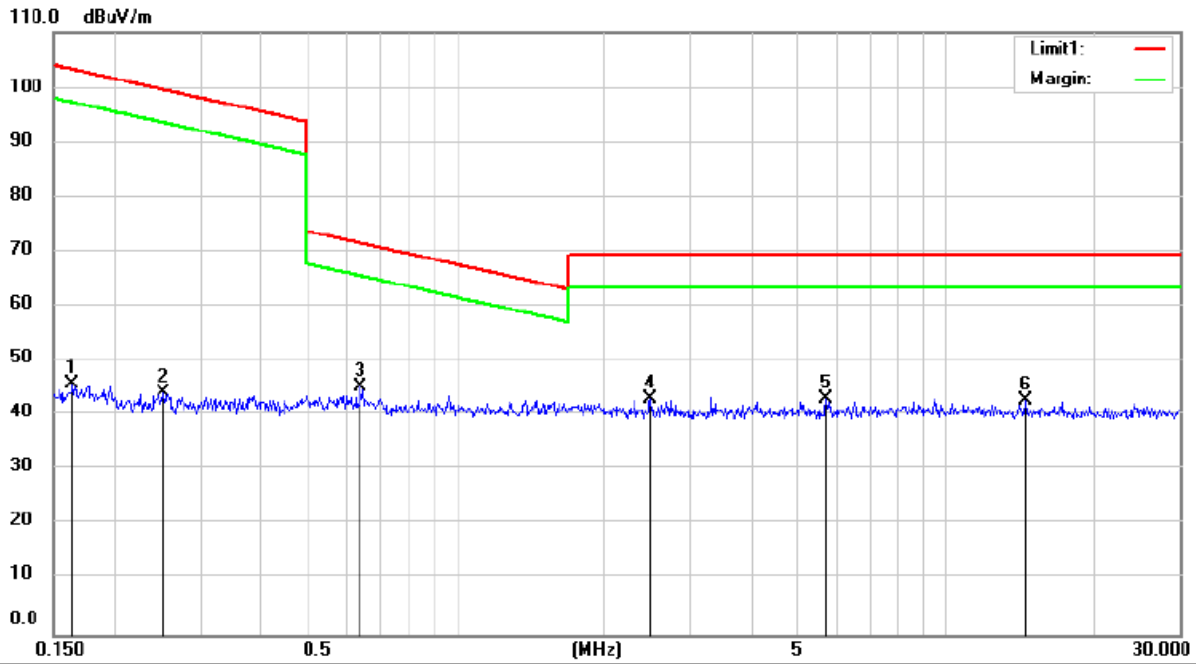
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load operating at center)

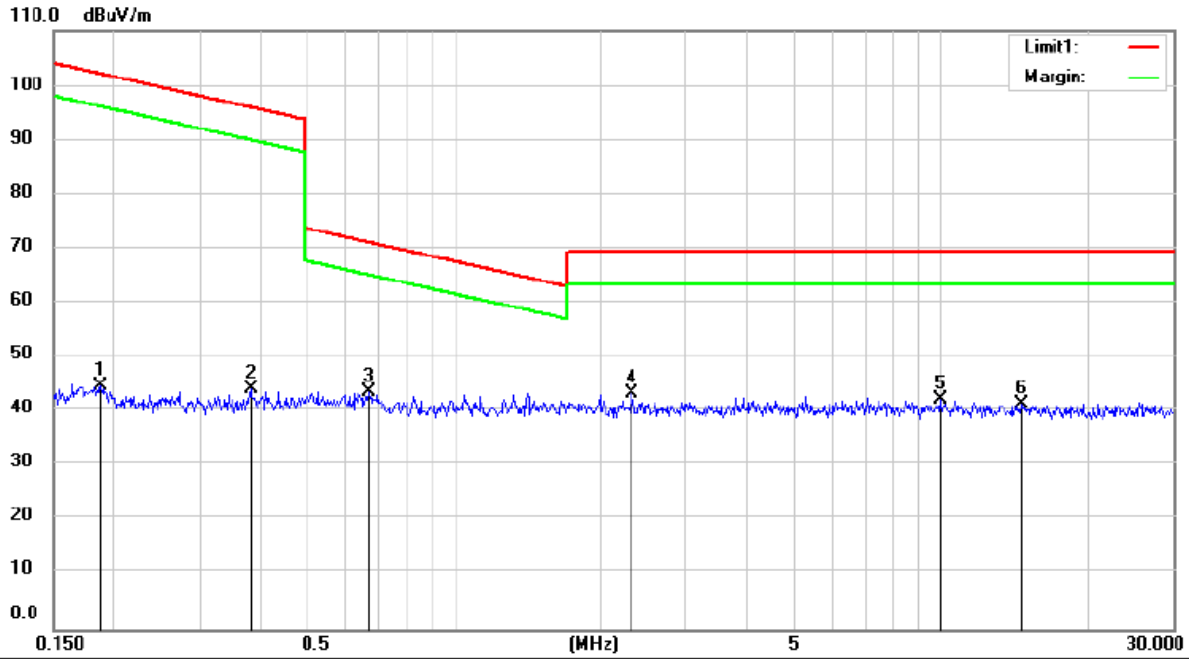
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3832	26.36	20.80	47.16	95.93	-48.77			QP
2		0.6372	25.38	20.75	46.13	71.52	-25.39			QP
3	*	0.8992	23.74	20.70	44.44	68.54	-24.10			QP
4		2.0011	22.26	20.40	42.66	69.50	-26.84			QP
5		7.5258	21.87	20.15	42.02	69.50	-27.48			QP
6		18.2316	22.28	19.24	41.52	69.50	-27.98			QP



Site 3m Chamber #3 Polarization: **Y** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load operating at  
 Note: center)

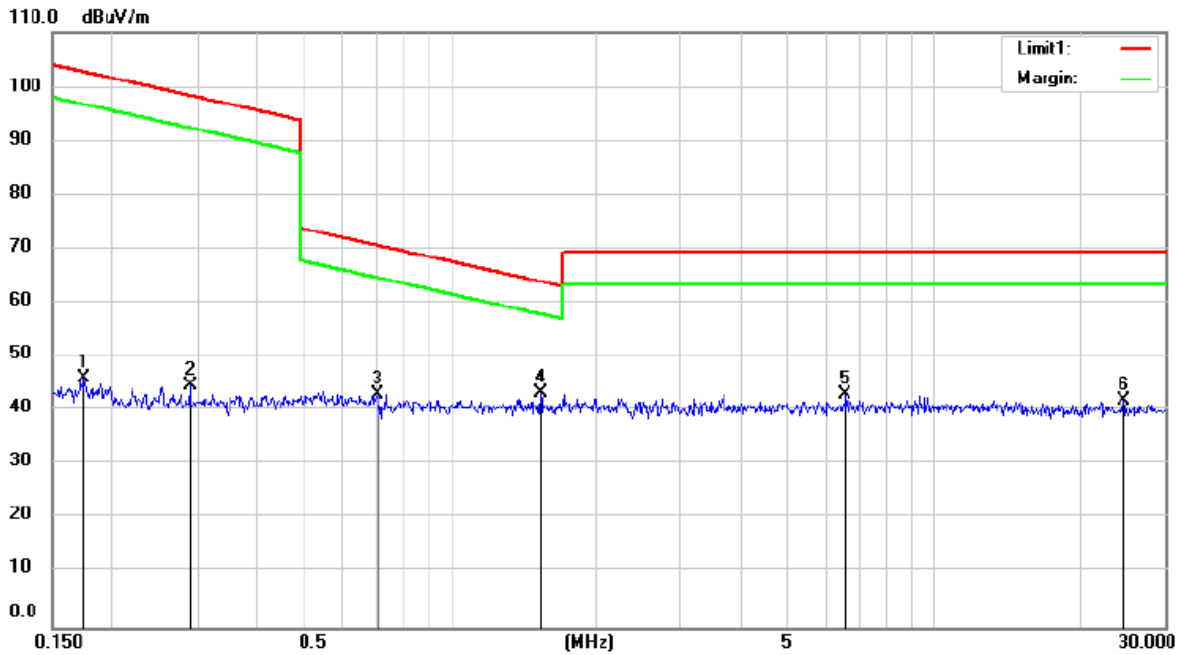
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1641	25.06	20.63	45.69	103.30	-57.61	QP		
2		0.2521	23.40	20.80	44.20	99.57	-55.37	QP		
3	*	0.6372	24.42	20.75	45.17	71.52	-26.35	QP		
4		2.4868	22.66	20.25	42.91	69.50	-26.59	QP		
5		5.6833	22.89	20.19	43.08	69.50	-26.42	QP		
6		14.5171	23.11	19.56	42.67	69.50	-26.83	QP		



Site: 3m Chamber #3      Polarization: **Z**      Temperature: 27 C  
 Limit: (RE)FCC PART 15 C      Power: AC 120V/60Hz      Humidity: 49 %  
 Mode: Charging(10W RX Load operating at center)  
 Note:

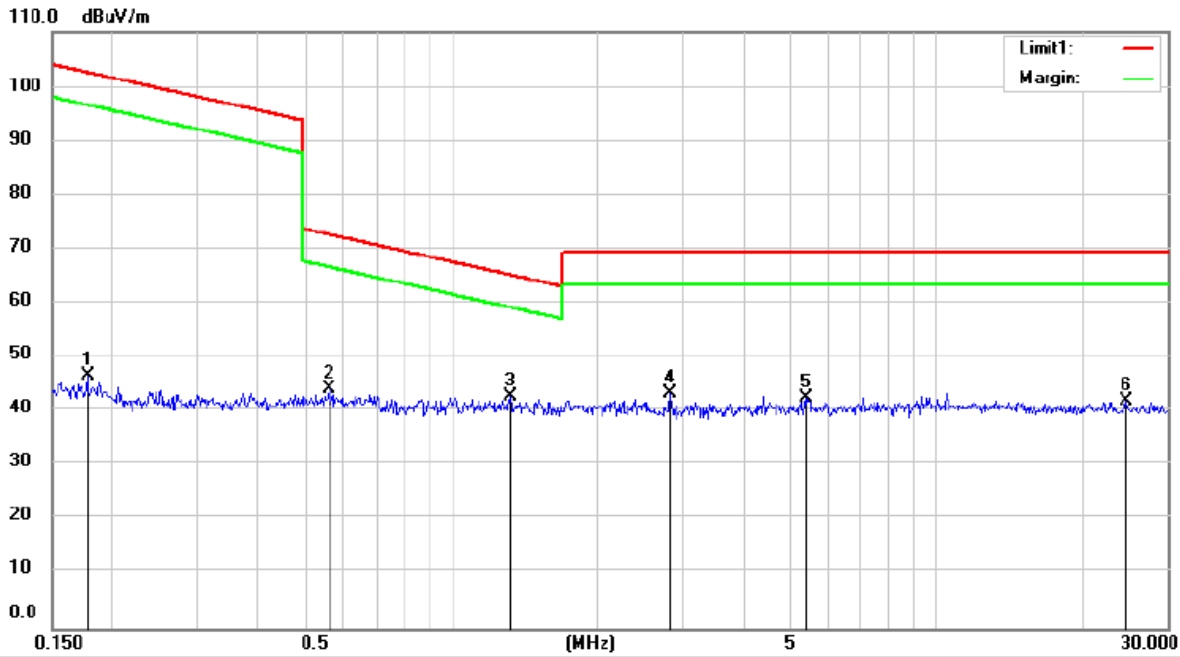
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		0.1874	23.89	20.67	44.56	102.14	-57.58	QP		
2		0.3811	23.30	20.80	44.10	95.98	-51.88	QP		
3		0.6683	22.95	20.73	43.68	71.11	-27.43	QP		
4	*	2.3090	22.87	20.31	43.18	69.50	-26.32	QP		
5		9.9657	22.09	20.10	42.19	69.50	-27.31	QP		
6		14.6718	21.95	19.54	41.49	69.50	-28.01	QP		





Site 3m Chamber #3 Polarization: **X** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1750	25.30	20.65	45.95	102.74	-56.79	QP		
2		0.2893	23.84	20.80	44.64	98.37	-53.73	QP		
3		0.7047	22.39	20.72	43.11	70.65	-27.54	QP		
4	*	1.5355	22.74	20.54	43.28	63.91	-20.63	QP		
5		6.5573	22.84	20.17	43.01	69.50	-26.49	QP		
6		24.6594	22.97	19.10	42.07	69.50	-27.43	QP		



Site 3m Chamber #3

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15 C

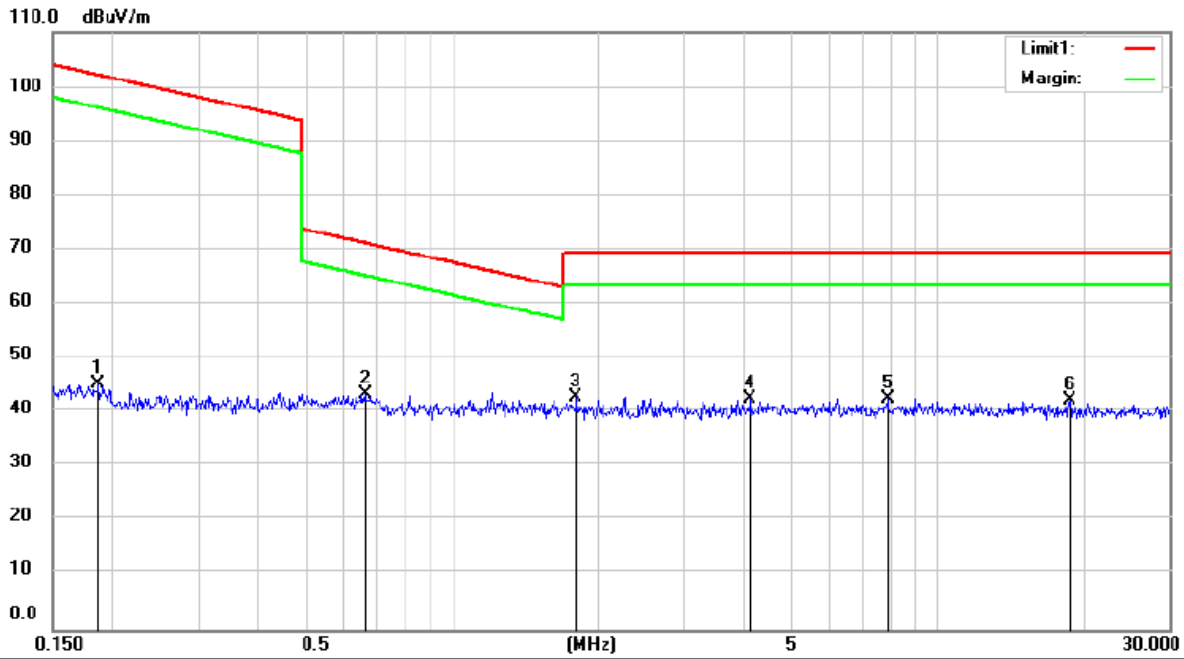
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

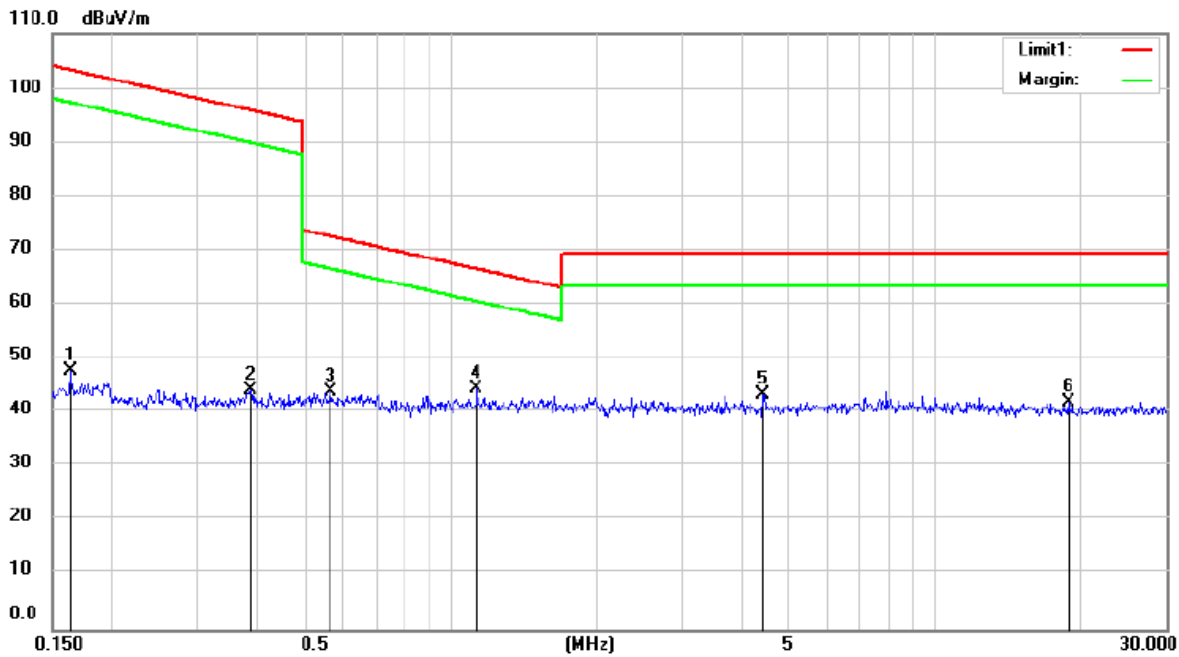
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1777	25.87	20.66	46.53	102.61	-56.08	QP		
2		0.5581	23.44	20.78	44.22	72.67	-28.45	QP		
3	*	1.3238	22.09	20.60	42.69	65.19	-22.50	QP		
4		2.8240	23.04	20.15	43.19	69.50	-26.31	QP		
5		5.3900	22.37	20.19	42.56	69.50	-26.94	QP		
6		24.6594	22.97	19.10	42.07	69.50	-27.43	QP		



Site 3m Chamber #3 Polarization: **Z** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1864	24.56	20.67	45.23	102.19	-56.96	QP		
2		0.6613	22.48	20.74	43.22	71.20	-27.98	QP		
3	*	1.8000	22.31	20.46	42.77	69.50	-26.73	QP		
4		4.1137	22.22	20.16	42.38	69.50	-27.12	QP		
5		7.8934	22.42	20.14	42.56	69.50	-26.94	QP		
6		18.7210	22.89	19.20	42.09	69.50	-27.41	QP		

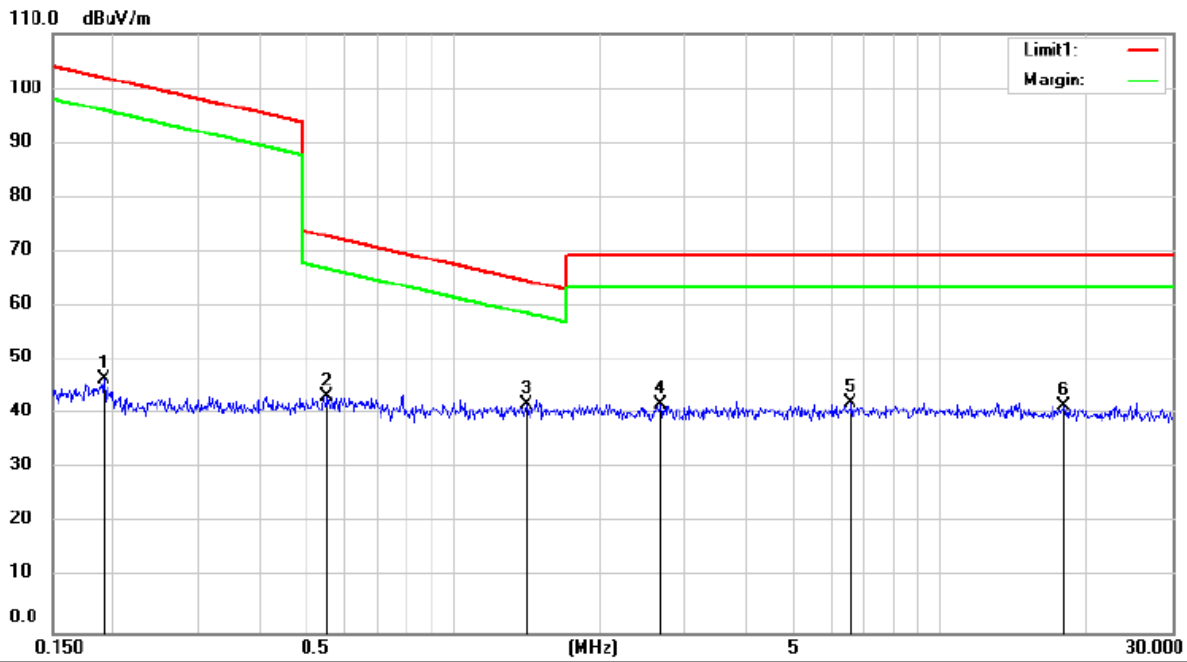


Site 3m Chamber #3  
 Limit: (RE)FCC PART 15 C  
 Mode: Stand-By  
 Note:

Polarization: X  
 Power: AC 120V/60Hz

Temperature: 27 C  
 Humidity: 49 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.1633	27.15	20.63	47.78	103.34	-55.56	QP			
2		0.3852	23.26	20.80	44.06	95.89	-51.83	QP			
3		0.5641	23.12	20.77	43.89	72.58	-28.69	QP			
4	*	1.1292	23.67	20.66	44.33	66.57	-22.24	QP			
5		4.4071	23.12	20.17	43.29	69.50	-26.21	QP			
6		18.8205	22.63	19.19	41.82	69.50	-27.68	QP			



Site 3m Chamber #3

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15 C

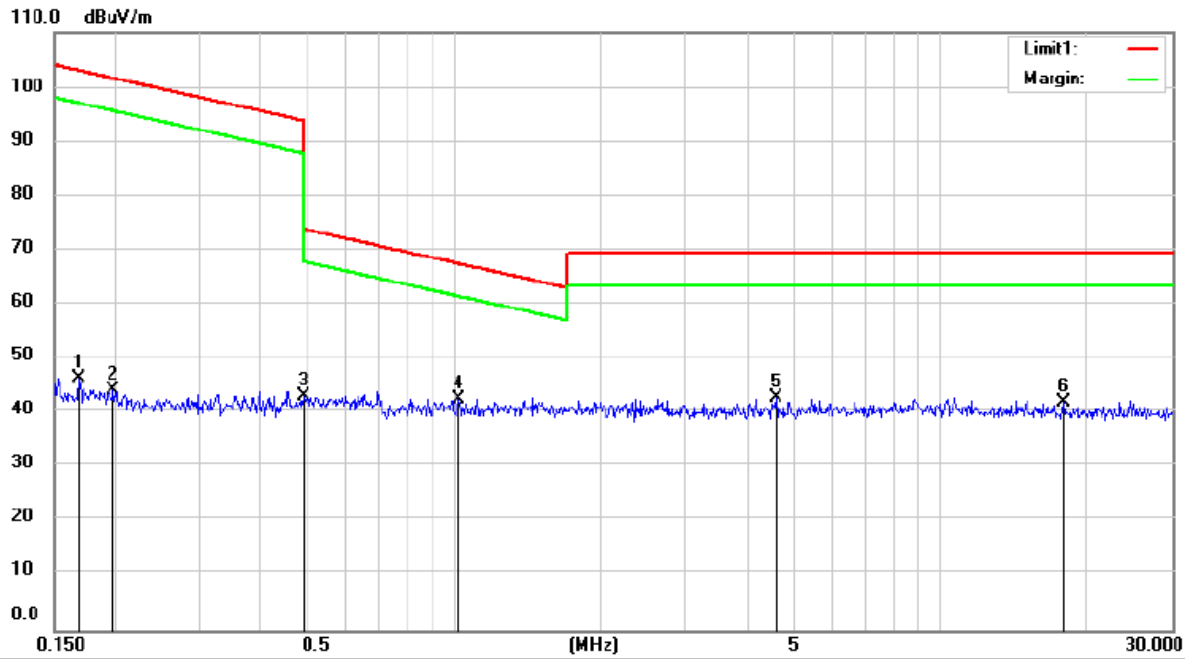
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand-By

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.1913	25.89	20.68	46.57	101.97	-55.40	QP			
2		0.5493	22.49	20.78	43.27	72.81	-29.54	QP			
3	*	1.4106	21.42	20.58	42.00	64.64	-22.64	QP			
4		2.6640	21.86	20.20	42.06	69.50	-27.44	QP			
5		6.5573	22.00	20.17	42.17	69.50	-27.33	QP			
6		17.9440	22.28	19.26	41.54	69.50	-27.96	QP			



Site 3m Chamber #3

Polarization: **Z**

Temperature: 27 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

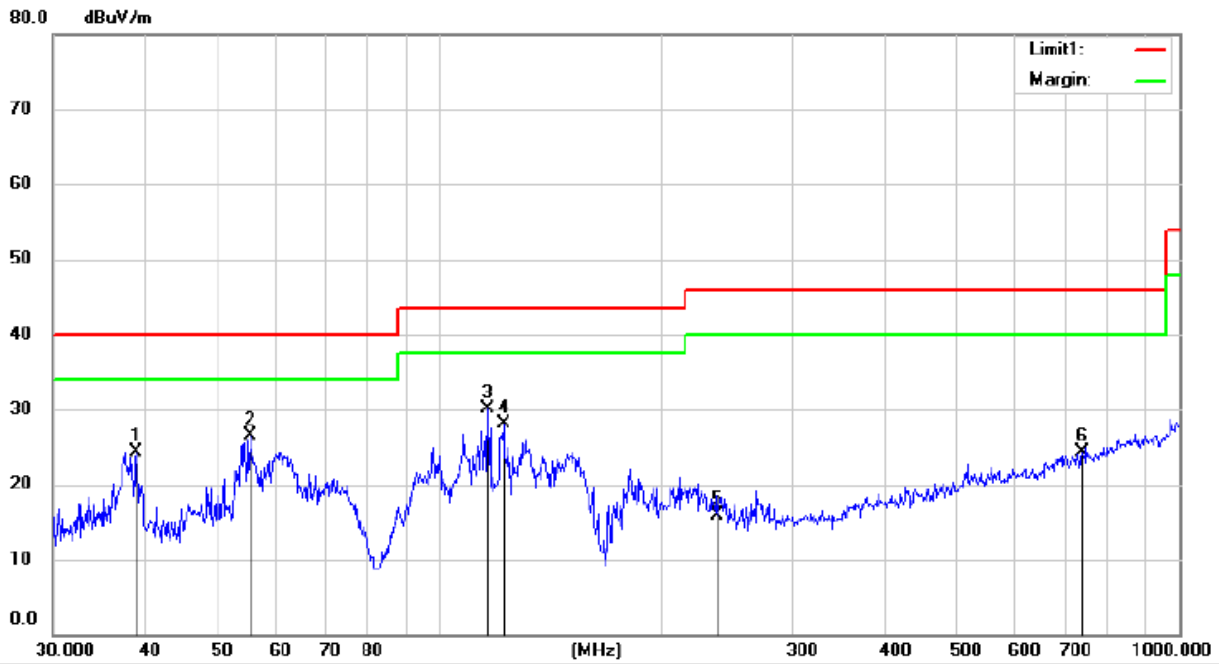
Humidity: 49 %

Mode: Stand-By

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1685	25.61	20.64	46.25	103.07	-56.82	QP		
2		0.1986	23.56	20.70	44.26	101.64	-57.38	QP		
3		0.4890	22.31	20.80	43.11	93.82	-50.71	QP		
4	*	1.0210	21.81	20.69	42.50	67.44	-24.94	QP		
5		4.5978	22.62	20.18	42.80	69.50	-26.70	QP		
6		17.9440	22.59	19.26	41.85	69.50	-27.65	QP		

## 30MHz-1GHz:



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15 C

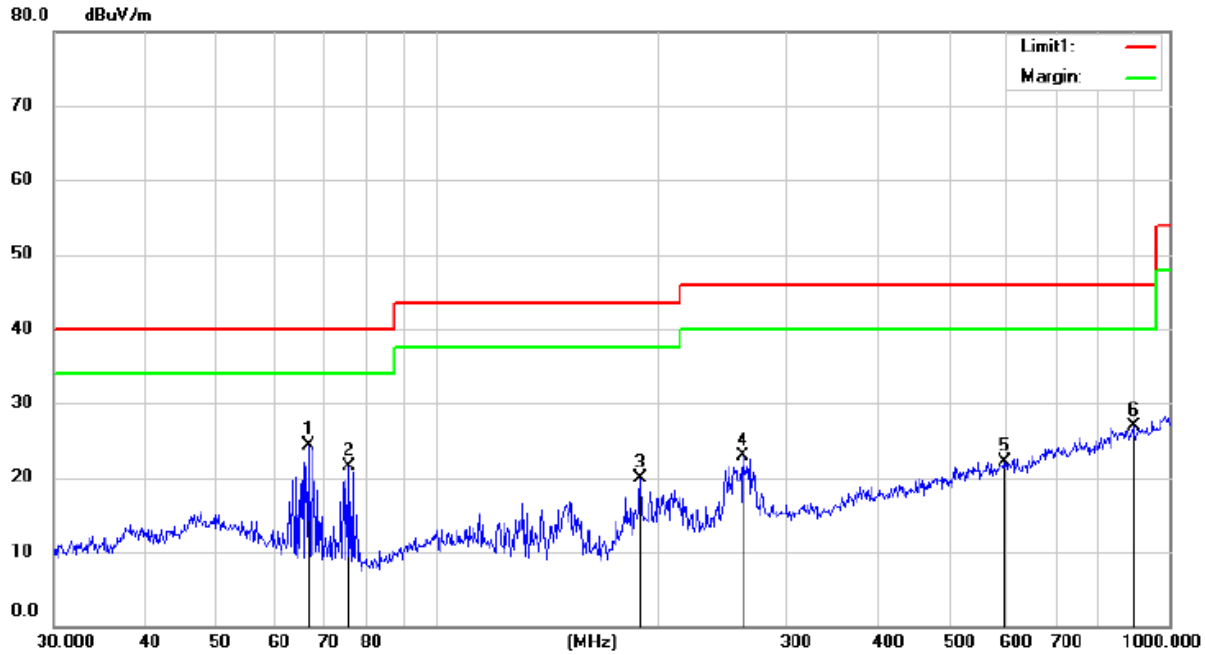
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load operating at center)

Note:

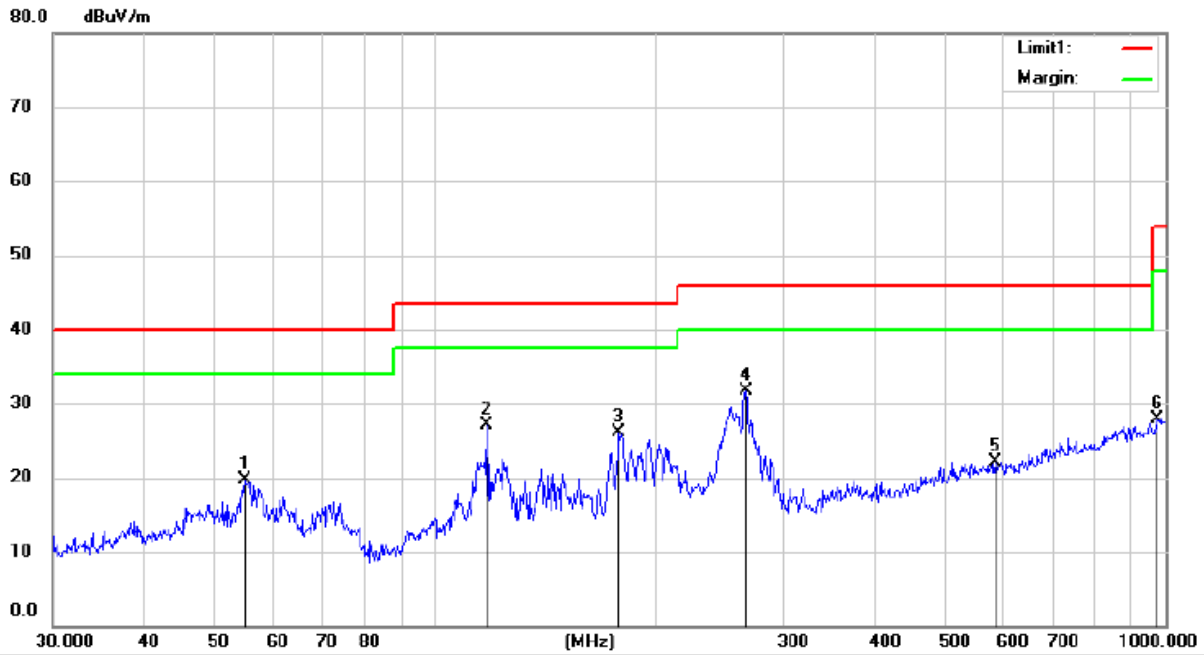
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		38.8878	39.91	-15.58	24.33	40.00	-15.67			QP
2		55.4147	41.70	-15.22	26.48	40.00	-13.52			QP
3	*	116.1321	45.91	-15.87	30.04	43.50	-13.46			QP
4		121.9755	44.57	-16.48	28.09	43.50	-15.41			QP
5		237.4760	30.00	-14.03	15.97	46.00	-30.03			QP
6		739.6604	28.47	-4.09	24.38	46.00	-21.62			QP



Site 3m Chamber #3 Polarization: *Horizontal* Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load operating at center)  
 Note:

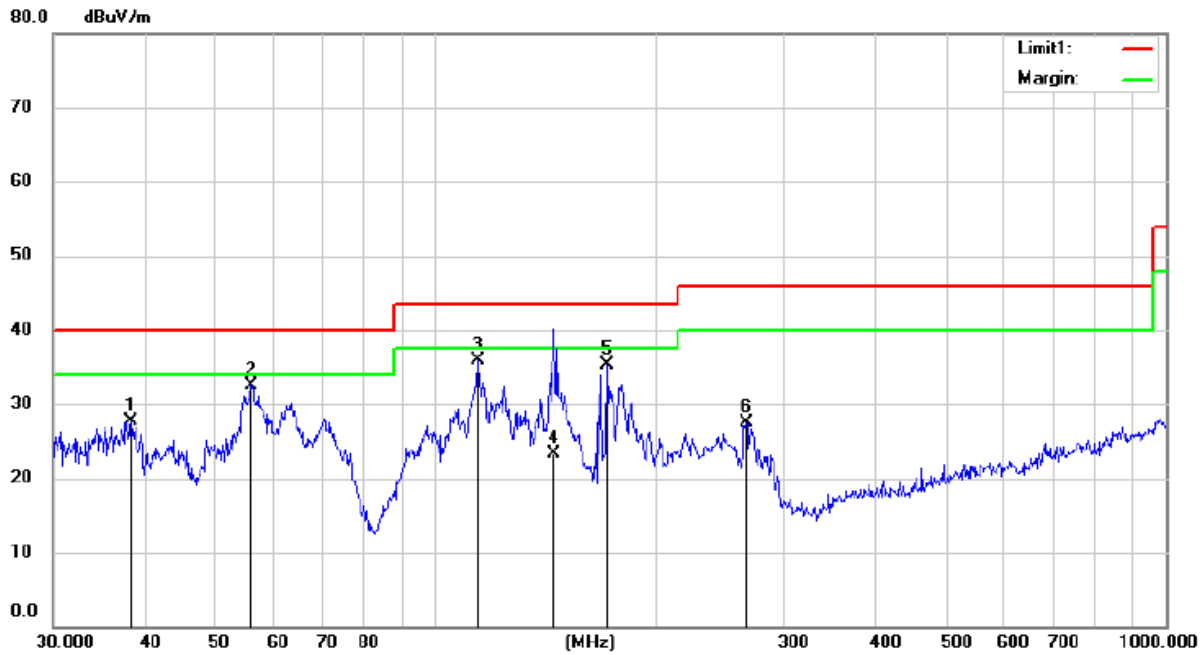
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	66.7325	42.19	-17.80	24.39	40.00	-15.61	QP		
2		75.9773	40.28	-18.74	21.54	40.00	-18.46	QP		
3		189.7385	35.63	-15.67	19.96	43.50	-23.54	QP		
4		261.9753	36.19	-13.36	22.83	46.00	-23.17	QP		
5		595.1330	28.87	-6.68	22.19	46.00	-23.81	QP		
6		893.8567	28.99	-2.17	26.82	46.00	-19.18	QP		





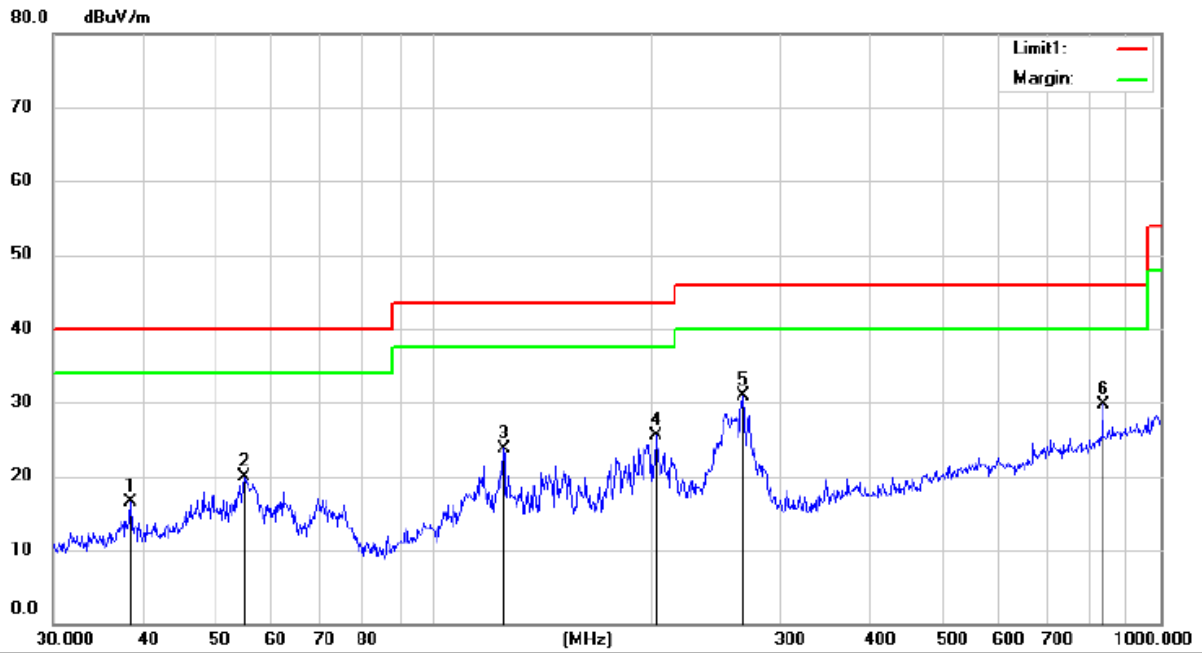
Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		54.8348	34.73	-14.98	19.75	40.00	-20.25			QP
2		117.7725	43.12	-16.08	27.04	43.50	-16.46			QP
3		178.7584	43.35	-17.31	26.04	43.50	-17.46			QP
4	*	266.6090	44.56	-12.88	31.68	46.00	-14.32			QP
5		584.7895	28.95	-6.83	22.12	46.00	-23.88			QP
6		975.7530	28.93	-0.99	27.94	54.00	-26.06			QP



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 27 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 49 %  
 Mode: Charging(10W RX Load with 3mm airgap at center)  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		38.3462	43.19	-15.58	27.61	40.00	-12.39	QP		
2	*	56.0007	48.05	-15.45	32.60	40.00	-7.40	QP		
3		114.5146	51.63	-15.69	35.94	43.50	-7.56	QP		
4		145.3506	42.19	-18.79	23.40	43.50	-20.10	QP		
5		171.9946	53.24	-18.03	35.21	43.50	-8.29	QP		
6		266.6090	40.32	-12.88	27.44	46.00	-18.56	QP		



Site: 3m Chamber #3      Polarization: **Horizontal**      Temperature: 27 C  
 Limit: (RE)FCC PART 15 C      Power: AC 120V/60Hz      Humidity: 49 %  
 Mode: Stand-By  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Detector	Comment
1		38.3462	32.03	-15.58	16.45	40.00	-23.55			QP	
2		55.0274	34.90	-15.06	19.84	40.00	-20.16			QP	
3		125.0065	40.43	-16.63	23.80	43.50	-19.70			QP	
4		202.8103	39.98	-14.49	25.49	43.50	-18.01			QP	
5	*	266.6090	43.72	-12.88	30.84	46.00	-15.16			QP	
6		833.3170	32.39	-2.63	29.76	46.00	-16.24			QP	