



FCC REPORT

Applicant: Smartmatic International Corporation

Address of Applicant: Pine Lodge, #26 Pine Road St. Michael, W.I. BB Barbados

Equipment Under Test (EUT)

Product Name: Voter Identification Unit

Model No.: VIU-500 Model 700

Trade mark: SMARTMATIC

FCC ID: 2AGVK-VIU-500A70

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 28 Sep., 2021

Date of Test: 29 Sep., to 20 Oct., 2021

Date of report issued: 21 Oct., 2021

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2 Version

Version No.	Date	Description
00	21 Oct., 2021	Original

Tested by:Mike.Ou
Test Engineer**Date:**

21 Oct., 2021

Reviewed by:Winner Zhang
Project Engineer**Date:**

21 Oct., 2021

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 TEST SUMMARY.....	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF E.U.T.	5
5.3 TEST MODE AND TEST SAMPLES PLANS	5
5.4 MEASUREMENT UNCERTAINTY.....	5
5.5 DESCRIPTION OF SUPPORT UNITS	6
5.6 RELATED SUBMITTAL(S) / GRANT (s).....	6
5.7 DESCRIPTION OF CABLE USED	6
5.8 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	6
5.9 LABORATORY FACILITY.....	6
5.10 LABORATORY LOCATION.....	6
5.11 TEST INSTRUMENTS LIST.....	7
6 TEST RESULTS AND MEASUREMENT DATA.....	8
6.1 CONDUCTED EMISSION.....	8
6.2 RADIATED EMISSION	13
7 TEST SETUP PHOTO	21
8 EUT CONSTRUCTIONAL DETAILS	22

4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
Remark:		
1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

5 General Information

5.1 Client Information

Applicant:	Smartmatic International Corporation
Address:	Pine Lodge, #26 Pine Road St. Michael, W.I. BB Barbados
Manufacturer:	Aratek Biometrics Co., Ltd.
Address:	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China
Factory:	Aratek Biometrics Co., Ltd.
Address:	4F, 2th building, Nangang first industrial park, Baimang Songbai Road #1029, Nanshan district, Shenzhen, Guangdong, China.

5.2 General Description of E.U.T.

Product Name:	Voter Identification Unit
Model No.:	VIU-500 Model 700
Power supply:	Rechargeable Li-ion Battery DC3.7V, 10000mAh
AC adapter:	Model: ES568U050200XYF Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 2000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
ISN	Schwarzbeck	CAT3 8158	#96	03-03-2021	03-02-2022
ISN	Schwarzbeck	CAT5 8158	#166	03-03-2021	03-02-2022
ISN	Schwarzbeck	NTFM 8158	#126	03-03-2021	03-02-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

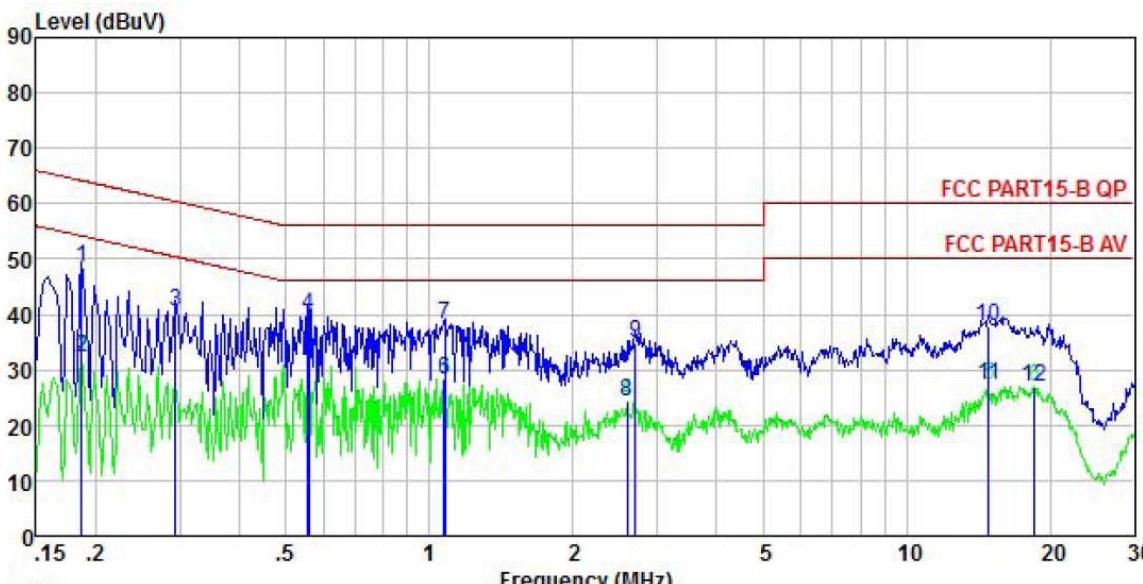
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)		Limit (dB μ V)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>40cm</p> <p>80cm</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. 		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement data:

Product name:	Voter Identification Unit			Product model:	VIU-500 Model 700		
Test by:	Mike			Test mode:	PC mode		
Test frequency:	150 kHz ~ 30 MHz			Phase:	Line		
Test voltage:	AC 120 V/60 Hz			Environment:	Temp: 22.5°C Huni: 55%		



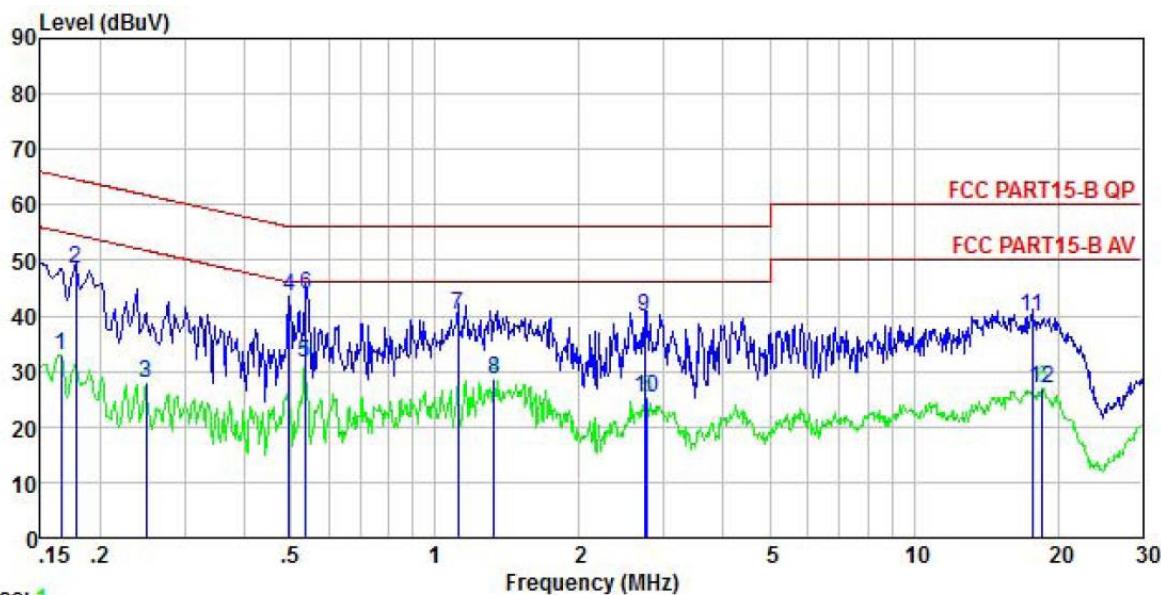
Trace: 3

Freq	Read Level	LISM Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV			dB	dBuV	dBuV	dB	
1	0.186	38.45	10.23	-0.13	0.02	48.57	64.20	-15.63 QP
2	0.186	22.07	10.23	-0.13	0.02	32.19	54.20	-22.01 Average
3	0.294	30.38	10.26	-0.26	0.03	40.41	60.41	-20.00 QP
4	0.555	29.94	10.29	-0.37	0.02	39.88	56.00	-16.12 QP
5	0.558	21.71	10.29	-0.37	0.02	31.65	46.00	-14.35 Average
6	1.071	17.58	10.32	0.39	0.07	28.36	46.00	-17.64 Average
7	1.077	27.47	10.32	0.38	0.07	38.24	56.00	-17.76 QP
8	2.594	13.93	10.34	-0.25	0.12	24.14	46.00	-21.86 Average
9	2.707	24.76	10.34	-0.24	0.11	34.97	56.00	-21.03 QP
10	14.828	23.46	10.76	3.54	0.14	37.90	60.00	-22.10 QP
11	14.828	12.65	10.76	3.54	0.14	27.09	50.00	-22.91 Average
12	18.524	14.28	10.87	1.59	0.15	26.89	50.00	-23.11 Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Voter Identification Unit	Product model:	VIU-500 Model 700
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%

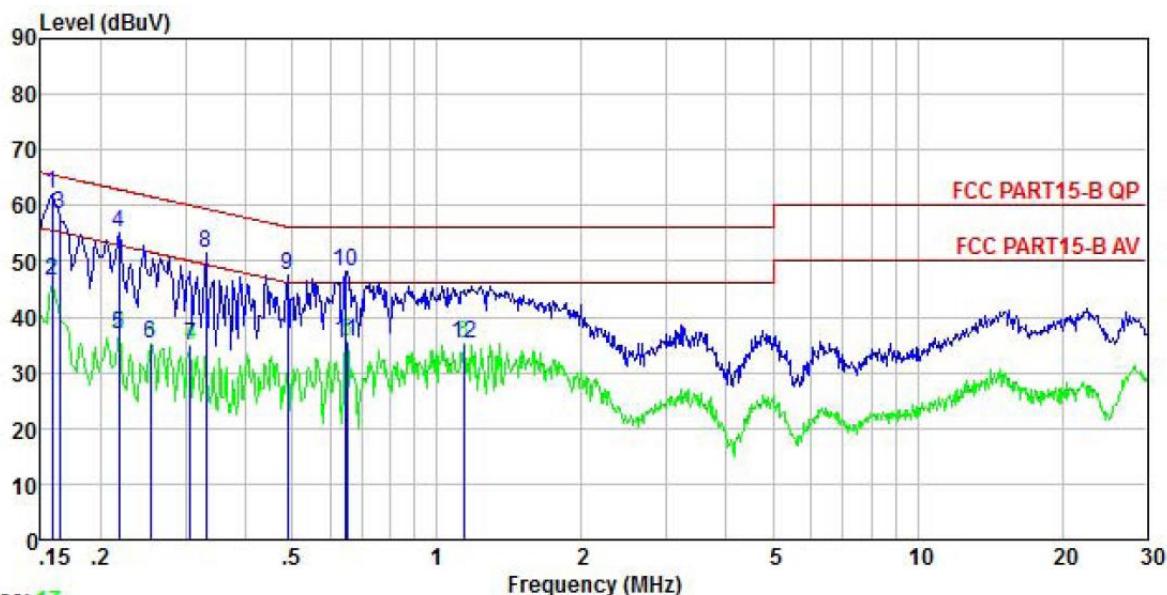


Freq MHz	Read Level	LISN Factor	Aux Factor	Cable Loss	Limit Level	Line Limit	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	22.59	10.20	0.01	0.01	32.81	55.16	-22.35 Average
2	0.178	38.25	10.21	0.00	0.01	48.47	64.59	-16.12 QP
3	0.249	17.55	10.24	0.01	0.01	27.81	51.78	-23.97 Average
4	0.497	33.05	10.28	0.03	0.03	43.39	56.05	-12.66 QP
5	0.535	21.24	10.28	0.03	0.03	31.58	46.00	-14.42 Average
6	0.538	33.51	10.28	0.03	0.03	43.85	56.00	-12.15 QP
7	1.117	29.62	10.31	0.09	0.07	40.09	56.00	-15.91 QP
8	1.331	17.89	10.31	0.12	0.12	28.44	46.00	-17.56 Average
9	2.736	29.19	10.34	0.28	0.10	39.91	56.00	-16.09 QP
10	2.779	14.66	10.34	0.28	0.10	25.38	46.00	-20.62 Average
11	17.661	27.58	10.82	1.47	0.15	40.02	60.00	-19.98 QP
12	18.524	14.94	10.84	0.97	0.15	26.90	50.00	-23.10 Average

Notes:

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Voter Identification Unit	Product model:	VIU-500 Model 700
Test by:	Mike	Test mode:	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%

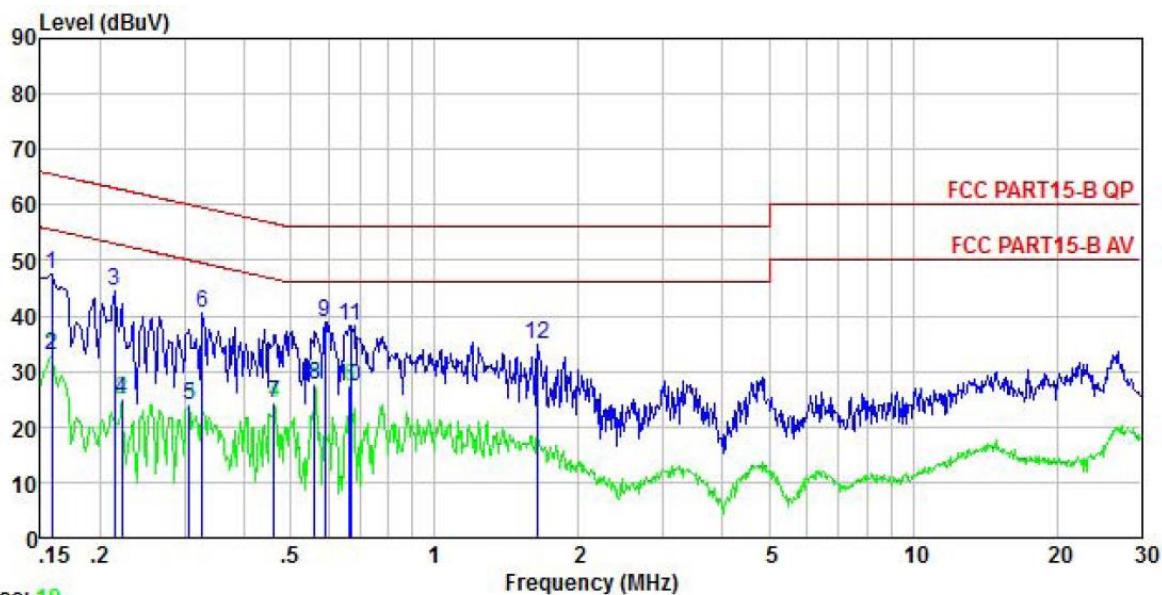


Freq MHz	Read Level	LISN Factor	Aux Factor	Cable Loss	Limit Line	Over Line	Over Limit	Remark
	dBuV	dB	dB	dBuV				
1	0.158	51.80	10.22	-0.07	0.01	61.96	65.56	-3.60 QP
2	0.158	36.19	10.22	-0.07	0.01	46.35	55.56	-9.21 Average
3	0.164	48.27	10.22	-0.08	0.01	58.42	65.25	-6.83 QP
4	0.219	44.95	10.24	-0.18	0.03	55.04	62.88	-7.84 QP
5	0.219	26.75	10.24	-0.18	0.03	36.84	52.88	-16.04 Average
6	0.253	25.17	10.25	-0.22	0.01	35.21	51.64	-16.43 Average
7	0.307	24.87	10.26	-0.20	0.03	34.96	50.06	-15.10 Average
8	0.330	41.06	10.27	-0.03	0.02	51.32	59.44	-8.12 QP
9	0.489	37.53	10.29	-0.26	0.03	47.59	56.19	-8.60 QP
10	0.647	38.25	10.30	-0.39	0.02	48.18	56.00	-7.82 QP
11	0.651	25.74	10.30	-0.39	0.03	35.68	46.00	-10.32 Average
12	1.135	24.36	10.32	0.32	0.08	35.08	46.00	-10.92 Average

Notes:

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Voter Identification Unit	Product model:	VIU-500 Model 700
Test by:	Mike	Test mode:	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%

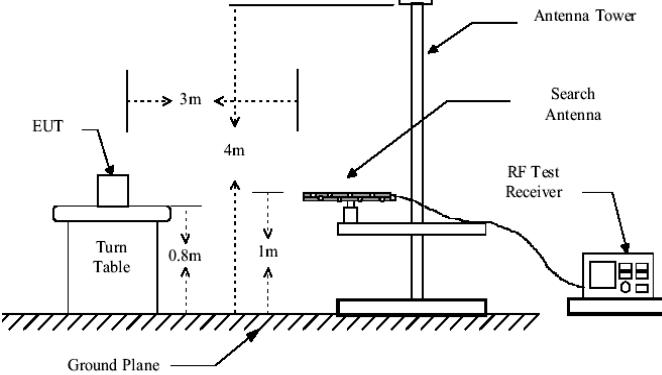
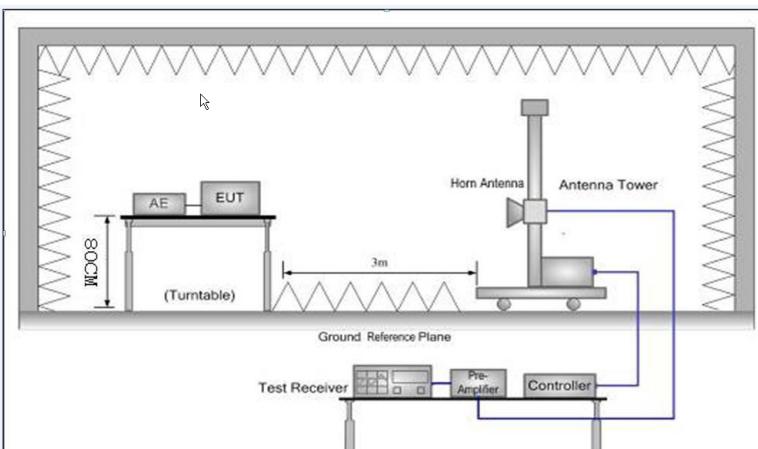


Freq MHz	Read Level dBuV	LISN Factor dB	Aux Factor dB	Cable Loss dB	Limit Line dBuV	Over Line dB	Over Limit Remark
	MHz	dBuV	dB	dB			
1	0.158	37.25	10.20	0.01	0.01	47.47	65.56 -18.09 QP
2	0.158	22.65	10.20	0.01	0.01	32.87	55.56 -22.69 Average
3	0.214	34.41	10.23	0.00	0.03	44.67	63.05 -18.38 QP
4	0.222	14.81	10.23	0.00	0.03	25.07	52.74 -27.67 Average
5	0.307	13.76	10.25	0.00	0.03	24.04	50.06 -26.02 Average
6	0.327	30.20	10.26	-0.01	0.02	40.47	59.53 -19.06 QP
7	0.461	13.86	10.28	0.00	0.03	24.17	46.67 -22.50 Average
8	0.561	17.22	10.29	0.03	0.02	27.56	46.00 -18.44 Average
9	0.589	28.45	10.29	0.03	0.02	38.79	56.00 -17.21 QP
10	0.665	16.83	10.30	0.04	0.03	27.20	46.00 -18.80 Average
11	0.668	27.94	10.30	0.04	0.03	38.31	56.00 -17.69 QP
12	1.645	24.38	10.32	0.14	0.16	35.00	56.00 -21.00 QP

Notes:

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.

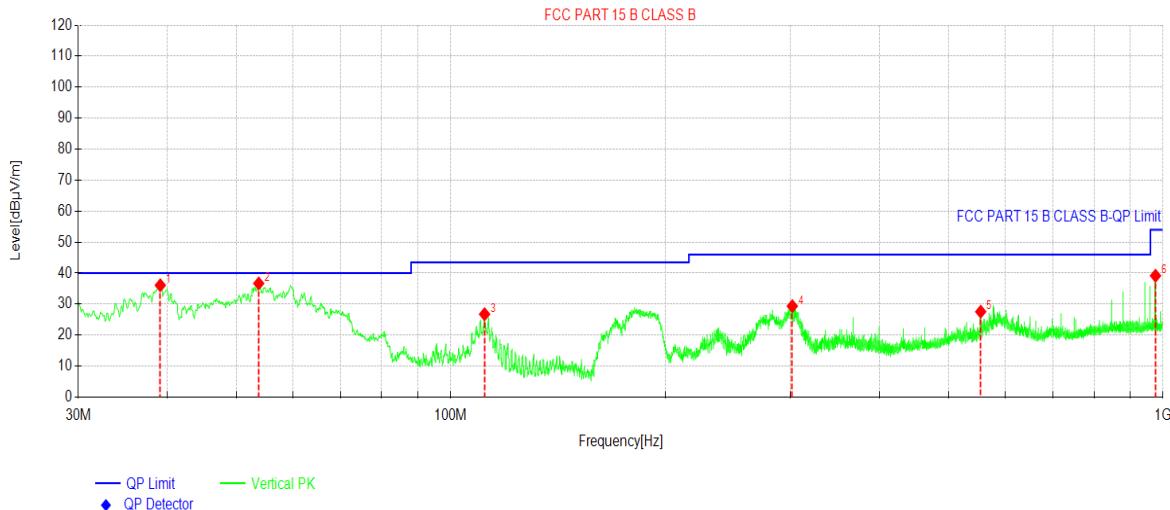
6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109													
Test Frequency Range:	30MHz to 6000MHz													
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)													
Receiver setup:	Frequency	Detector	RBW	VBW	Remark									
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value									
	Above 1GHz	Peak	1MHz	3MHz	Peak Value									
Limit:	RMS	1MHz	3MHz	Average	Value									
	Frequency	Limit (dBuV/m @3m)		Remark										
	30MHz-88MHz	40.0		Quasi-peak Value										
	88MHz-216MHz	43.5		Quasi-peak Value										
	216MHz-960MHz	46.0		Quasi-peak Value										
	960MHz-1GHz	54.0		Quasi-peak Value										
Test setup:	Above 1GHz													
	Below 1GHz													
														
														
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 													

	<ol style="list-style-type: none">4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz were the noise floor , which were not recorded

Measurement Data:**Below 1GHz:**

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

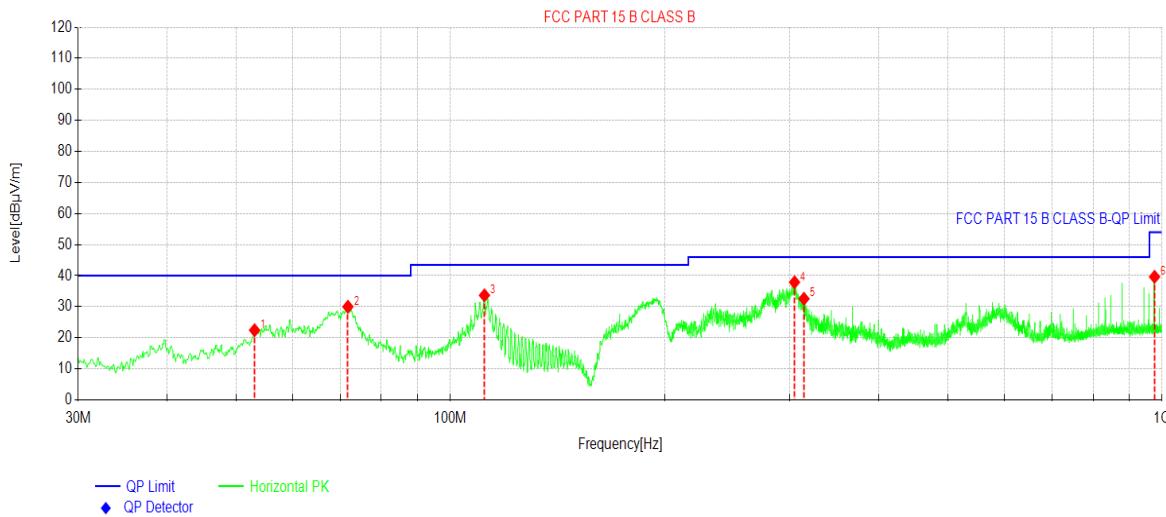


NO.	Freq. [MHz]	Reading[dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Polarity
1	39.1189	50.65	36.09	-14.56	40.00	3.91	PK	Vertical
2	53.7674	51.31	36.67	-14.64	40.00	3.33	PK	Vertical
3	111.585	42.47	26.75	-15.72	43.50	16.75	PK	Vertical
4	301.724	42.03	29.37	-12.66	46.00	16.63	PK	Vertical
5	554.725	34.28	27.56	-6.72	46.00	18.44	PK	Vertical
6	976.038	40.07	39.17	-0.90	54.00	14.83	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

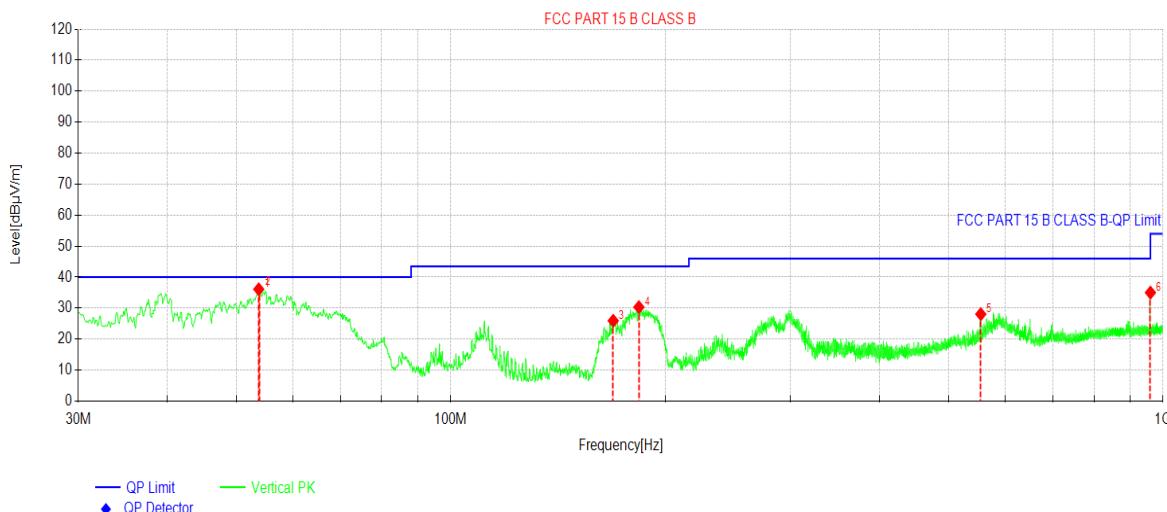


NO.	Freq. [MHz]	Reading [dB μV/m]	Level [dB μV/m]	Factor [dB]	Limit [dB μV/m]	Margin [dB]	Trace	Polarity
1	53.0883	37.08	22.43	-14.65	40.00	17.57	PK	Horizontal
2	71.8112	47.00	30.00	-17.00	40.00	10.00	PK	Horizontal
3	111.682	49.38	33.67	-15.71	43.50	9.83	PK	Horizontal
4	304.537	50.46	37.88	-12.58	46.00	8.12	PK	Horizontal
5	313.947	44.93	32.56	-12.37	46.00	13.44	PK	Horizontal
6	976.038	40.53	39.63	-0.90	54.00	14.37	PK	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

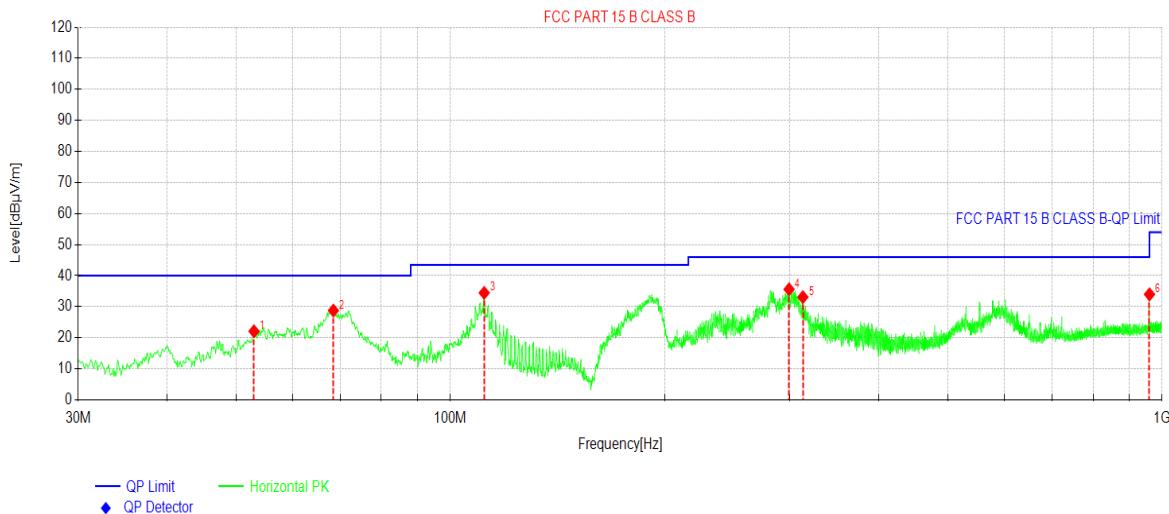


NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Polarity
1	53.7674	50.73	36.09	-14.64	40.00	3.91	PK	Vertical
2	53.9614	51.30	36.67	-14.63	40.00	3.33	PK	Vertical
3	169.111	42.97	25.93	-17.04	43.50	17.57	PK	Vertical
4	183.760	46.80	30.33	-16.47	43.50	13.17	PK	Vertical
5	554.919	34.78	28.06	-6.72	46.00	17.94	PK	Vertical
6	960.129	35.89	35.01	-0.88	54.00	18.99	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



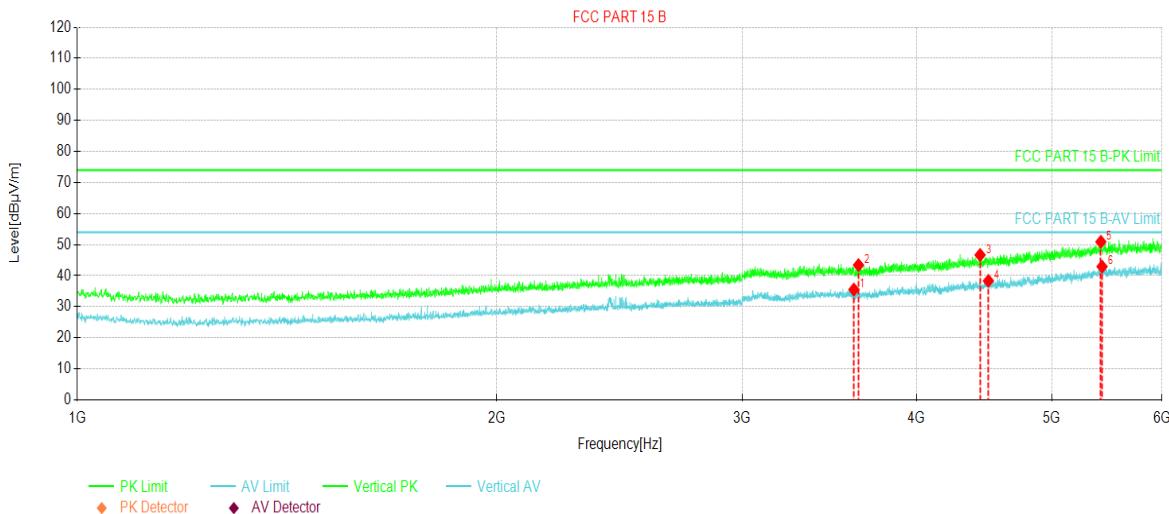
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Polarity
1	52.9913	36.74	22.09	-14.65	40.00	17.91	PK	Horizontal
2	68.5129	45.32	28.77	-16.55	40.00	11.23	PK	Horizontal
3	111.585	50.19	34.47	-15.72	43.50	9.03	PK	Horizontal
4	299.201	48.33	35.61	-12.72	46.00	10.39	PK	Horizontal
5	312.880	45.49	33.10	-12.39	46.00	12.90	PK	Horizontal
6	960.129	34.87	33.99	-0.88	54.00	20.01	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

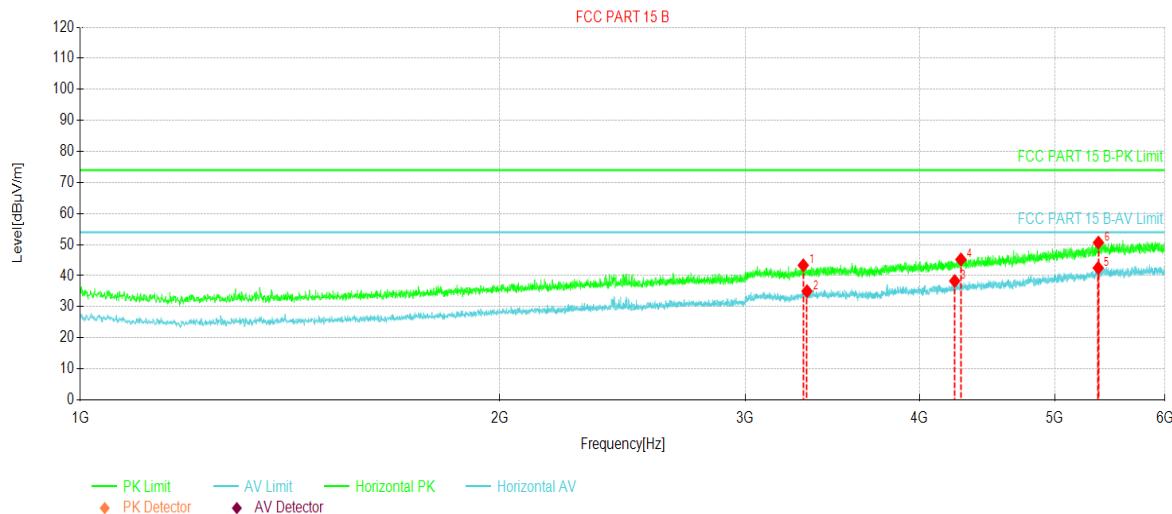


NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Polarity
1	3606.87	50.40	35.52	-14.88	54.00	18.48	AV	Vertical
2	3634.37	58.17	43.41	-14.76	74.00	30.59	PK	Vertical
3	4443.12	57.68	46.66	-11.02	74.00	27.34	PK	Vertical
4	4504.37	49.12	38.33	-10.79	54.00	15.67	AV	Vertical
5	5423.75	56.88	50.91	-5.97	74.00	23.09	PK	Vertical
6	5434.37	48.90	42.92	-5.98	54.00	11.08	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Voter Identification Unit	Product Model:	VIU-500 Model 700
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Polarity
1	3301.25	58.93	43.34	-15.59	74.00	30.66	PK	Horizontal
2	3321.87	50.52	34.99	-15.53	54.00	19.01	AV	Horizontal
3	4239.37	50.07	38.27	-11.80	54.00	15.73	AV	Horizontal
4	4283.12	56.90	45.21	-11.69	74.00	28.79	PK	Horizontal
5	5373.75	48.59	42.47	-6.12	54.00	11.53	AV	Horizontal
6	5375.00	56.74	50.63	-6.11	74.00	23.37	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.