

# FCC PART 15B, CLASS B TEST REPORT

For

## **Compumax Computer S.A.S**

Calle 41 N 35-47 Bucaramanga, Santander, Colombia

FCC ID: 2AHF7-TW10PRO

**Product Type:** Report Type: Original Report COMPUMAX TW10PRO Simon wang **Test Engineer:** Simon Wang Report Number: RSZ160317001-00A **Report Date:** 2016-04-01 BeilHu Bell Hu Reviewed By: RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building Prepared By: ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

**Note**: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The Computar S.A.S's product, model number: 6035-802-0000 (FCC ID: 2AHF7-TW10PRO) or the "EUT" in this report was a COMPUMAX TW10PRO, which was measured approximately: 263 mm (L) × 177 mm (W) × 13 mm (H), rated with input voltage: DC 3.8V rechargeable Li-ion battery or DC 5V from adapter. The highest operational frequency is 2480MHz.

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Adapter Information: Model: WB-10E05FU

Input AC: 100-240V, 50-60Hz, 0.4A Max

Output: DC 5V, 2A

Note: The serial models 6035-100-0000, 6035-100-0001, 6035-200-0000, 6035-200-0001, 6035-300-0000, 6035-300-0000, 6035-300-0001, 6035-400-0000, 6035-400-0001, 6035-500-0000, 6035-500-0001, 6035-600-0000, 6035-600-0001, 6035-700-0000, 6035-800-0001, 6035-800-0001, 6035-801-0001, 6035-801-0001, 6035-802-0001, 6035-803-0000, 6035-803-0001, 6035-804-0001, 6035-804-0001, 6035-805-0001, 6035-805-0001, 6035-806-0001, 6035-807-0001, 6035-808-0001, 6035-808-0001, 6035-809-000

\*All measurement and test data in this report was gathered from production sample serial number: 1601671 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2016-03-17.

#### **Objective**

This test report is prepared on behalf of *Compumax Computer S.A.S* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

#### Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS & DTS submissions with FCC ID: 2AHF7-TW10PRO.

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.81 dB for 30MHz-1GHz, and 4.88 dB for above 1GHz, 1.95dB for conducted measurement.

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#### **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

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Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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## **SYSTEM TEST CONFIGURATION**

#### **Description of Test Configuration**

The system was configured for testing in a manufacturer testing fashion.

#### **EUT Exercise Software**

"winthrax" exercise software was used, which control the device transceiving with the USB port data, the visual display setting as ANSI C63.4-2014 clasue 11.4 requirement.

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#### **Special Accessories**

No special accessory.

#### **Equipment Modifications**

No modification was made to the EUT tested.

#### **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
DELL	Mouse	MOC5UO	G1900NKD
Samsung	Monitor	225MS	N/A
Kingston	USB flash disk	N/A	N/A
Kingston	Micro SD card	4 GB	N/A

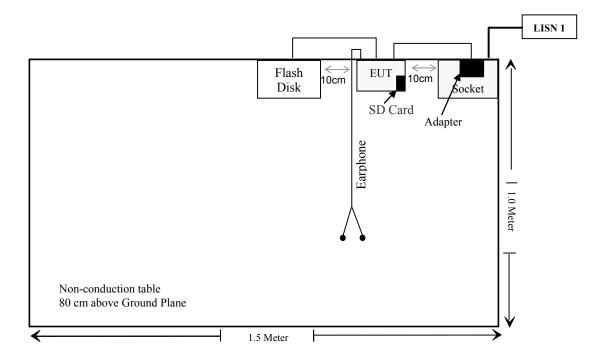
#### **External I/O Cable**

Cable Description	Length (m)	From/Port	То
Shielding Detachable HDMI Cable with magnetic loop	1.0	EUT	Monitor
Un-shielding Un-Detachable DC Power Cable	1.4	EUT	Adapter
Un-shielding Un-Detachable USB Cable	0.2	EUT	Flash Disk

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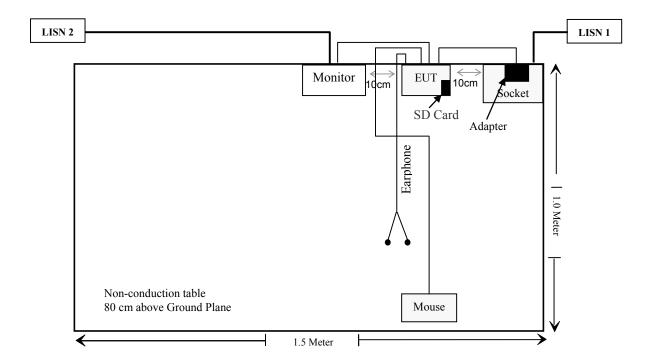
## **Block Diagram of Test Setup**

Test Mode: Downloading



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Test Mode: HDMI



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## **SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

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### FCC §15.107 – AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

According to FCC §15.107

#### **Measurement Uncertainty**

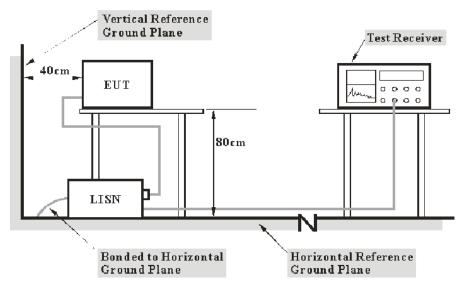
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN/ISN and receiver, LISN/ISN voltage division factor, LISN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

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Port	Measurement uncertainty
AC Mains	3.34 dB (k=2, 95% level of confidence)
CAT 3	3.72 dB (k=2, 95% level of confidence)
CAT 5	3.74 dB (k=2, 95% level of confidence)
CAT 6	4.54 dB (k=2, 95% level of confidence)

#### **EUT Setup**



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

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#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

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#### **Test Procedure**

During the conducted emission test, the adapter was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-03	2016-06-03
Rohde & Schwarz	LISN 1	ENV216	3560.6650.12- 101613-Yb	2015-12-01	2016-12-01
COM-POWER	LISN 2	LI-200	12208	2015-12-15	2016-12-14
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR
Ducommun technologies	Conducted Emission Cable	RG-214	CB031	2015-06-15	2016-06-15

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Corrected Factor & Margin Calculation**

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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

Margin = Limit - Corrected Amplitude

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#### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.107</u>, the worst margin as below:

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#### 14.4 dB at 0.2535 MHz in the Line conducted mode for HDMI mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{\rm (Lm)} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL.,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	23 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2016-03-25.

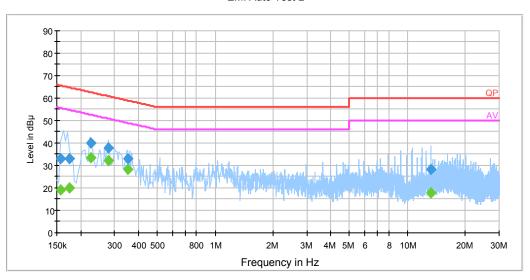
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EUT Test Mode: Downloading

#### AC 120V/60 Hz, Line:

#### EMI Auto Test L

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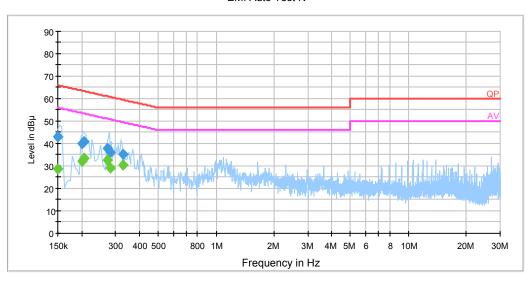
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.157500	33.1	20.0	65.6	32.5	QP
0.157500	19.0	20.0	55.6	36.6	Ave.
0.174500	33.1	20.0	64.7	31.6	QP
0.174500	20.1	20.0	54.7	34.6	Ave.
0.226500	40.2	20.0	62.6	22.4	QP
0.226500	33.7	20.0	52.6	18.9	Ave.
0.277500	37.9	19.9	60.9	23.0	QP
0.277500	32.2	19.9	50.9	18.7	Ave.
0.351190	33.0	19.9	58.9	25.9	QP
0.351190	28.1	19.9	48.9	20.8	Ave.
13.231670	28.3	20.1	60.0	31.7	QP
13.231670	17.9	20.1	50.0	32.1	Ave.

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## AC 120V/60 Hz, Neutral:

#### EMI Auto Test N

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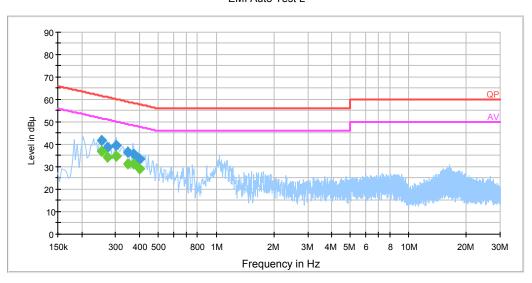
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	43.2	20.0	66.0	22.8	QP
0.150000	28.8	20.0	56.0	27.2	Ave.
0.201500	40.2	20.0	63.5	23.3	QP
0.201500	32.4	20.0	53.5	21.1	Ave.
0.205500	40.8	20.0	63.4	22.6	QP
0.205500	33.6	20.0	53.4	19.8	Ave.
0.273500	37.9	19.9	61.0	23.1	QP
0.273500	32.6	19.9	51.0	18.4	Ave.
0.281500	36.3	19.9	60.8	24.5	QP
0.281500	29.2	19.9	50.8	21.6	Ave.
0.326830	35.2	19.9	59.5	24.3	QP
0.326830	30.3	19.9	49.5	19.2	Ave.

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EUT Test Mode: HDMI
AC 120V/60 Hz, Line:

EMI Auto Test L

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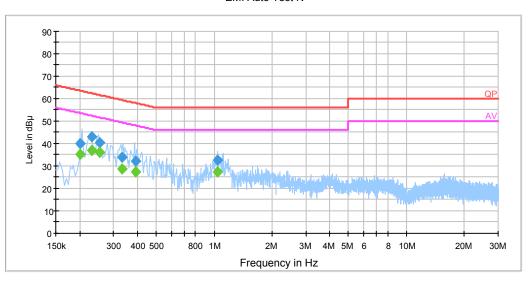
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.2535	41.9	19.9	61.6	19.7	QP
0.2535	37.2	19.9	51.6	14.4	Ave.
0.2735	38.9	19.9	61.0	22.1	QP
0.2735	34.2	19.9	51.0	16.8	Ave.
0.30147	39.6	19.9	60.2	20.6	QP
0.30147	34.7	19.9	50.2	15.5	Ave.
0.34881	36.7	19.9	59.0	22.3	QP
0.34881	31.4	19.9	49.0	17.6	Ave.
0.37245	35.7	19.9	58.4	22.7	QP
0.37245	31.4	19.9	48.4	17.0	Ave.
0.40003	33.6	19.9	57.9	24.3	QP
0.40003	29.2	19.9	47.9	18.7	Ave.

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#### AC 120V/60 Hz, Neutral:

#### EMI Auto Test N

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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.2015	40.1	20.0	63.5	23.5	QP
0.2015	35.4	20.0	53.5	18.2	Ave.
0.2305	43.0	20.0	62.4	19.4	QP
0.2305	36.9	20.0	52.4	15.6	Ave.
0.2545	40.6	19.9	61.6	21.0	QP
0.2545	36.1	19.9	51.6	15.5	Ave.
0.33299	33.9	19.9	59.4	25.5	QP
0.33299	28.7	19.9	49.4	20.7	Ave.
0.39179	32.0	19.9	58.0	26.1	QP
0.39179	27.4	19.9	48.0	20.7	Ave.
1.04631	32.7	20.0	56.0	23.3	QP
1.04631	27.5	20.0	46.0	18.6	Ave.

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
  3) Margin = Limit Corrected Amplitude

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#### FCC §15.109 - RADIATED SPURIOUS EMISSIONS

#### **Applicable Standard**

FCC §15.109

#### **Measurement Uncertainty**

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

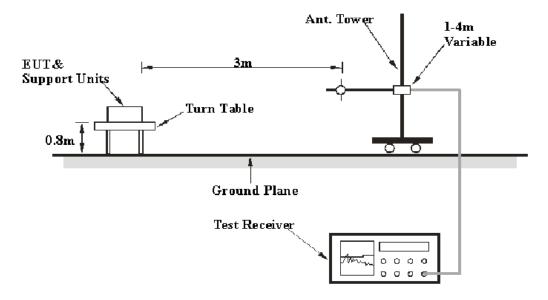
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Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.81 dB for 30MHz-1GHz and 4.88 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

Frequency	Polarity	Measurement uncertainty		
30 MHz~200 MHz	Horizontal	4.04 dB (k=2, 95% level of confidence)		
30 MHZ~200 MHZ	Vertical	4.52 dB (k=2, 95% level of confidence)		
200 MHz~1 GHz	Horizontal	4.72 dB (k=2, 95% level of confidence)		
200 MHZ~1 GHZ	Vertical	5.81 dB (k=2, 95% level of confidence)		
1 GHz~6 GHz	Horizontal/Vertical	4.64 dB (k=2, 95% level of confidence)		
Above 6 GHz	Horizontal/Vertical	4.88 dB (k=2, 95% level of confidence)		

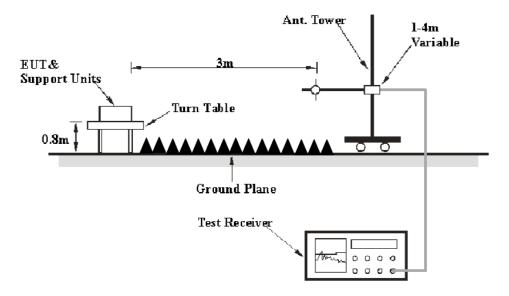
#### **EUT Setup**

#### **Below 1GHz:**



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#### **Above 1GHz:**



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 12.4 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	Hz – 1000 MHz 100 kHz		120 kHz	QP
Above 1 CHz	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

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#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2015-11-03	2016-11-03
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
TDK	Chamber	Chamber A	2#	2013-10-15	2016-10-15
TDK	Chamber	Chamber B	1#	2015-07-23	2016-07-22
R&S	Auto test Software	EMC32	V9.10	NCR	NCR
Ducommun technologies	RF Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	104PEA	218124002	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	1	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	2	2015-06-15	2016-06-15

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#### **Corrected Amplitude & Margin Calculation**

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, the worst margin reading as below:

3.47 dB at 839.07 MHz in the Horizontal polarization for Downloading mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

Temperature:	23 ℃		
Relative Humidity:	50 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Simon Wang on 2016-03-25.

EUT Test Mode: Downloading

#### 30 MHz – 12.4 GHz:

Frequency (MHz)	Receiver			Rx Antenna		Corrected	Corrected	FCC Part 15B	
	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
119.36	45.36	QP	295	1.1	Н	-7.1	38.26	43.5	5.24
238.82	23.06	QP	308	1.1	Н	-8.8	14.26	46	31.74
480.25	29.08	QP	213	1.3	Н	-2.6	26.48	46	19.52
599.95	26.74	QP	242	1.1	Н	-2.4	24.34	46	21.66
839.07	40.53	QP	81	1.2	Н	2	42.53	46	3.47
960.50	40.41	QP	152	1.3	Н	4.2	44.61	54	9.39
1100.51	58.74	PK	172	1.5	V	-12.07	46.67	74	27.33
1100.51	41.69	Ave.	172	1.5	V	-12.07	29.62	54	24.38
1298.04	58.81	PK	39	2.3	Н	-11.84	46.97	74	27.03
1298.04	57.61	Ave.	39	2.3	Н	-11.84	45.77	54	8.23
1298.16	57.84	PK	73	1.7	V	-11.84	46.00	74	28.00
1298.16	56.23	Ave.	73	1.7	V	-11.84	44.39	54	9.61
1599.69	58.09	PK	103	1.4	V	-10.33	47.76	74	26.24
1599.69	44.36	Ave.	103	1.4	V	-10.33	34.03	54	19.97

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EUT Test Mode: HDMI

#### **30 MHz – 12.4 GHz:**

Frequency (MHz)	Receiver			Rx Antenna		Corrected	Corrected	FCC Part 15B	
	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.41	30.8	QP	163	1.1	V	-0.2	30.6	40	9.4
36.10	34.02	QP	183	1.1	V	-4.9	29.12	40	10.88
128.65	37.7	QP	167	1.3	V	-6.6	31.1	43.5	12.4
258.96	35.79	QP	0	2	V	-8.2	27.59	46	18.41
382.53	43.47	QP	69	1.2	V	-5.2	38.27	46	7.73
450.89	44.68	QP	120	1.5	Н	-3.6	41.08	46	4.92
1085.4	57.02	PK	128	1.3	Н	-12.07	44.95	74	29.05
1085.4	39.28	Ave.	128	1.3	Н	-12.07	27.21	54	26.79
1085.4	60.12	PK	63	1.5	V	-12.07	48.05	74	25.95
1085.4	42.95	Ave.	63	1.5	V	-12.07	30.88	54	23.12

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#### Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit Corrected Amplitude

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#### PRODUCT SIMILARITY DECLARATION LETTE

Computant Computer S.A.S

Report No.: RSZ160317001-00A

Address: Calle 41 N 35-47 Bucaramanga, Santander, Colombia Tel: (057)14013333 ext 209 Fax: 5776917000 Email address: angela.jurado@compumax.info

**Product Similarity Declaration** 

March 24, 2016

FEDERAL COMMUNICATIONS COMMISSIONS Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046

To Whom It May Concern,

We, Compumax Computer S.A.S, hereby declare that we have a product named as COMPUMAX TW10PRO (Model number: 6035-802-0000, FCC ID: 2AHF7-TW10PRO) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (6035-100-0000, 6035-100-0001, 6035-200-0000, 6035-200-0001, 6035-300-0001, 6035-300-0001, 6035-400-0001, 6035-400-0001, 6035-500-0000, 6035-500-0001, 6035-600-0001, 6035-600-0001, 6035-700-0000, 6035-700-0001, 6035-800-0000, 6035-801-0001, 6035-801-0001, 6035-802-0001, 6035-803-0000, 6035-803-0001, 6035-804-0001, 6035-805-0001, 6035-805-0001, 6035-806-0001, 6035-806-0001, 6035-807-0000, 6035-808-0001, 6035-808-0001, 6035-809-0001, 6035-809-0001, 6035-809-0001, 6035-809-0001, 6035-900-0001, 6035-900-0001) on reports and certificate, all the models are identical schematics, only named differently. No other changes are made to them

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Angela P. Jugob

Sincerely,

Signature

Angela Patricia Jurado Arenales

Business Development Manager

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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