



TEST REPORT

Report Reference No..... : TRE1803005305 R/C.....: 12379

FCC ID..... : 2A0OFS601

Applicant's name..... : Shenzhen Two Monkey technology co. Ltd.

Address..... : Room 612, Building D, SDG Information Port, No.2 Kefeng Road, Nanshan District, Shenzhen, Guangdong, China

Manufacturer..... : Shenzhen Two Monkey technology co. Ltd.

Address..... : Room 612, Building D, SDG Information Port, No.2 Kefeng Road, Nanshan District, Shenzhen, Guangdong, China

Test item description : Translating Machine

Trade Mark : DOSMONO

Model/Type reference..... : DOSMONO S601

Listed Model(s) : -

Standard : 47 CFR FCC Part 15 Subpart B

Date of receipt of test sample..... : Mar.07,2018

Date of testing..... : Mar.07,2018- Mar.20,2018

Date of issue..... : Mar.21,2018

Result..... : Pass

Compiled by
(position+printedname+signature).... : File administrators Candy Liu

Candy Liu

Supervised by
(position+printedname+signature).... : Project Engineer Edward Pan

Edward Pan

Approved by
(position+printed name+signature).. : RF Manager Hans Hu

Hans Hu

Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[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 40GHz

1.2. Report version

Version No.	Date of issue	Description
N/A	Mar.21,2018	Original

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Alex Guo
Radiated Emissions	15.109(a)	PASS	Michael Jie

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Two Monkey technology co. Ltd.
Address:	Room 612, Building D, SDG Information Port, No.2 Kefeng Road, Nanshan District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Two Monkey technology co. Ltd.
Address:	Room 612, Building D, SDG Information Port, No.2 Kefeng Road, Nanshan District, Shenzhen, Guangdong, China

3.2. Product Description

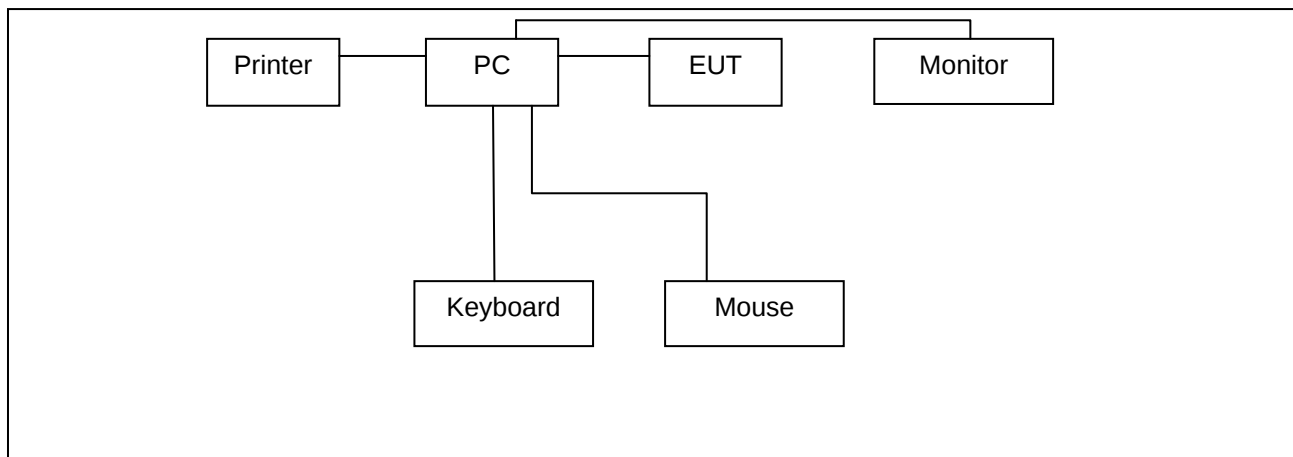
Name of EUT:	Translating Machine
Trade Mark:	DOSMONO
Model No.:	DOSMONO S601
Listed Model(s)	-
Power supply:	DC 3.8V
Adapter information:	Input:100-240Va.c.,50/60Hz,0.2A Output: 5Vd.c.,1.0A

3.3. EUT operation mode

Test mode	Describe
Data exchange mode	Keep the EUT in data exchange with PC status.
Audio record mode	Keep the EUT in audio record status.

Note: Both mode was tested, found data exchange mode is worse and record in the report.

3.4. Configuration of Tested System



3.5. Support unit used in test configuration

Item	Equipment	Manufacturer	Model No.	FCC ID / FCC DoC	Data Cable	Power Cord
1	PC	DELL	OptiPlex 3020 MT	FCC DoC	N/A	Unshielded 1.8m
2	Monitor	DELL	E1912Hf	FCC DoC	N/A	Unshielded 1.8m
3	Keyboard	DELL	SK8115	FCC DoC	Unshielded, 1.5m	N/A
4	Mouse	DELL	MS111-T	FCC DoC	Unshielded, 1.5m	N/A
5	Printer	EPSON	L101	FCC DoC	N/A	Unshielded 1.8m

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emissions	30~1000MHz	4.24 dB	(1)
Radiated Emissions	1~18GHz	5.16 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5. Equipments Used during the Test

Conducted Emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018
3	2-Line V-Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018
4	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018
6	Test Software	R&S	ES-K1	N/A	N/A	N/A

Radiated Emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2018
3	Ultra-Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2020
4	Preamplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018
5	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	11/21/2017	11/20/2018
6	EMI Test Software	R&S	ESK1	N/A	N/A	N/A
7	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018
8	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2020
9	Horn Antenna	SCHWARZBECK	BBHA9170	25841	3/27/2017	3/26/2018
10	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018
11	High pass filter	Compliance Direction systems	BSU-6	34202	11/11/2017	11/10/2018
12	RF Connection Cable	HUBER+SUHNER	RE-7-FH	N/A	11/21/2017	11/20/2018
13	EMI Test Software	Audix	E3	N/A	N/A	N/A
14	Turntable	MATURO	TT2.0	/	N/A	N/A
15	Antenna Mast	MATURO	TAM-4.0-P	/	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

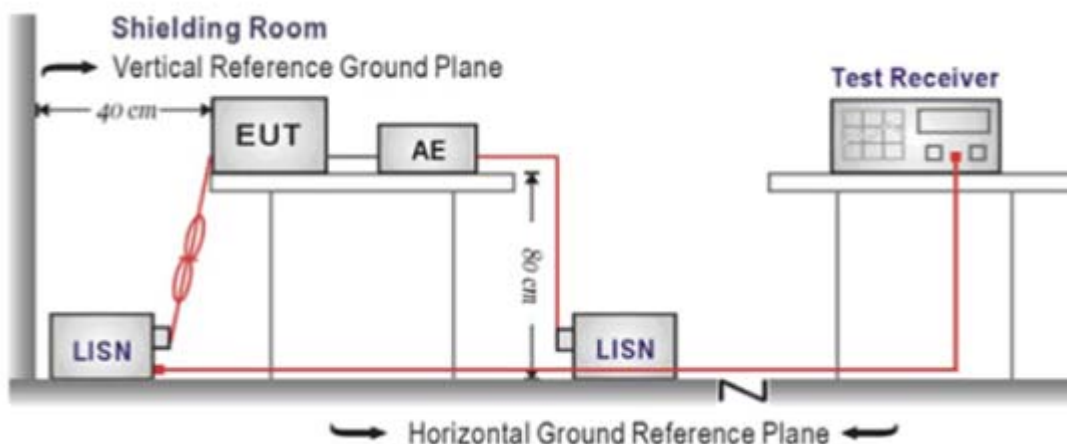
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4:2014
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

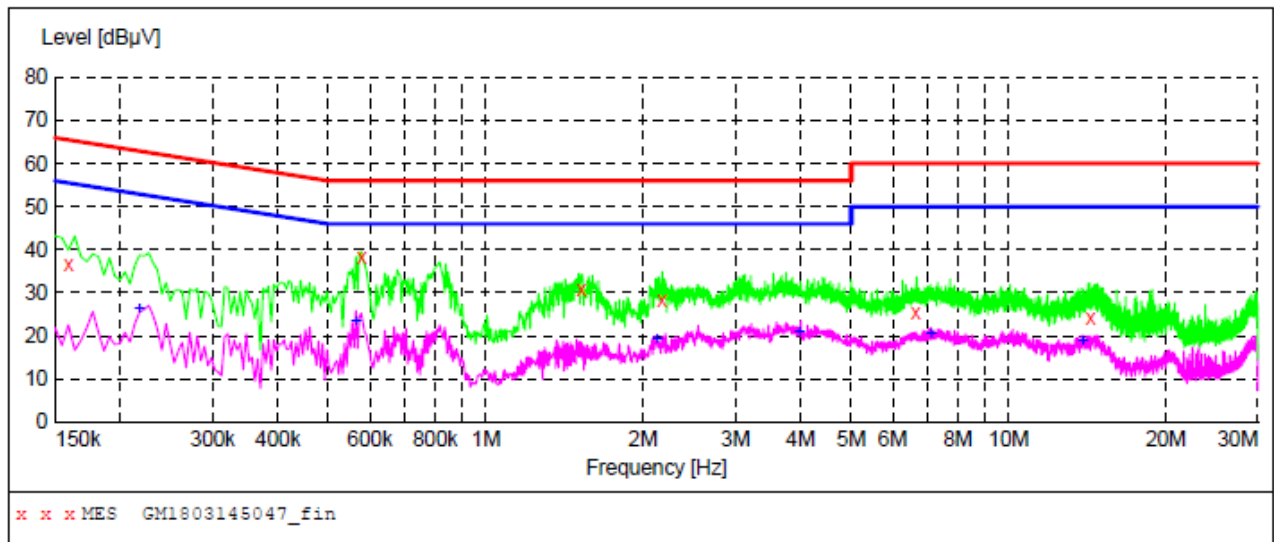
Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Test Line:

L

**MEASUREMENT RESULT: "GM1803145047_fin"**

3/14/2018 3:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	36.70	10.0	66	28.8	QP	L1	GND
0.577500	38.40	10.0	56	17.6	QP	L1	GND
1.522500	30.90	10.1	56	25.1	QP	L1	GND
2.170500	28.40	10.1	56	27.6	QP	L1	GND
6.639000	25.30	10.2	60	34.7	QP	L1	GND
14.347500	24.30	10.5	60	35.7	QP	L1	GND

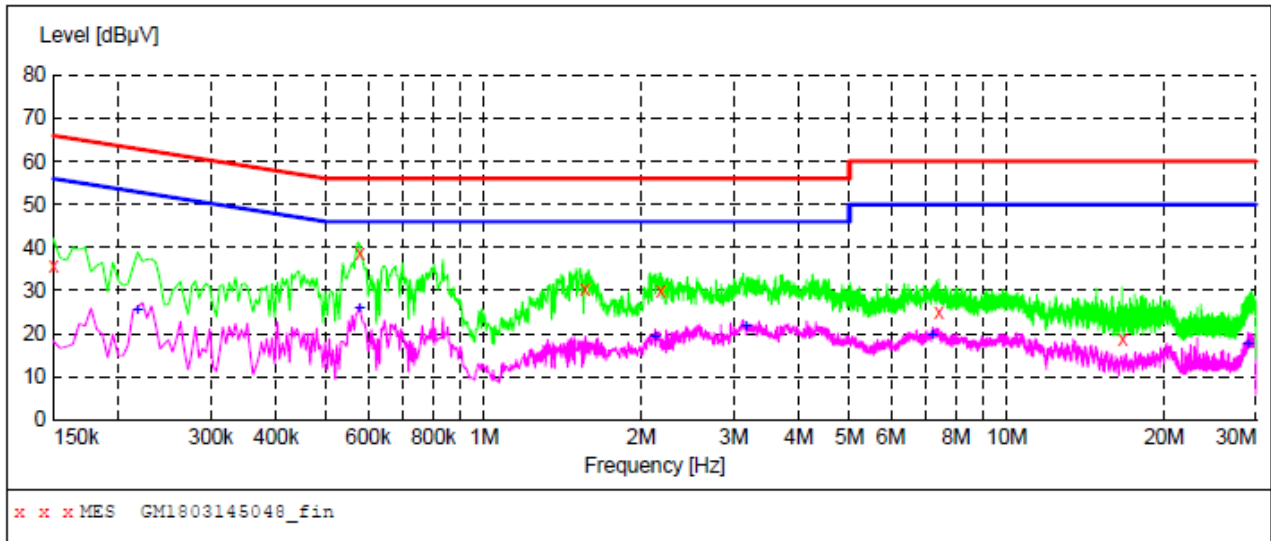
MEASUREMENT RESULT: "GM1803145047_fin2"

3/14/2018 3:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.217500	26.30	9.9	53	26.6	AV	L1	GND
0.564000	23.30	10.0	46	22.7	AV	L1	GND
2.125500	19.20	10.1	46	26.8	AV	L1	GND
3.970500	21.00	10.1	46	25.0	AV	L1	GND
7.102500	20.40	10.2	50	29.6	AV	L1	GND
13.857000	18.70	10.5	50	31.3	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1803145048_fin"**

3/14/2018 3:46PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	35.80	10.0	66	30.2	QP	N	GND
0.577500	38.60	10.0	56	17.4	QP	N	GND
1.558500	30.50	10.1	56	25.5	QP	N	GND
2.179500	30.10	10.1	56	25.9	QP	N	GND
7.413000	25.10	10.3	60	34.9	QP	N	GND
16.647000	18.80	10.5	60	41.2	QP	N	GND

MEASUREMENT RESULT: "GM1803145048_fin2"

3/14/2018 3:46PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.217500	25.40	9.9	53	27.5	AV	N	GND
0.577500	25.70	10.0	46	20.3	AV	N	GND
2.125500	19.00	10.1	46	27.0	AV	N	GND
3.169500	21.50	10.1	46	24.5	AV	N	GND
7.197000	19.60	10.2	50	30.4	AV	N	GND
28.963500	17.70	10.8	50	32.3	AV	N	GND

5.2. Radiated Emissions Test

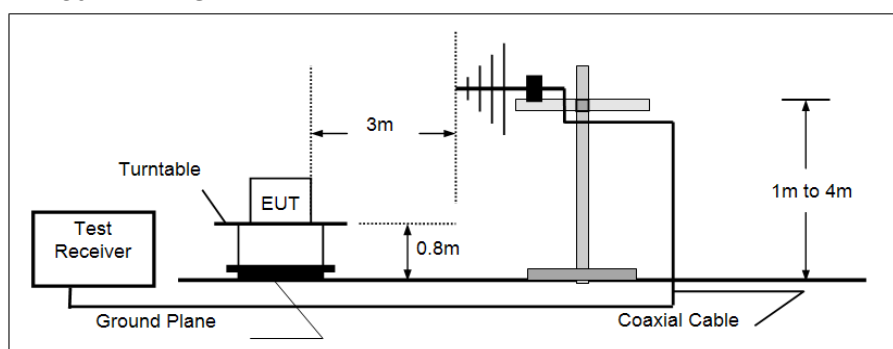
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.209

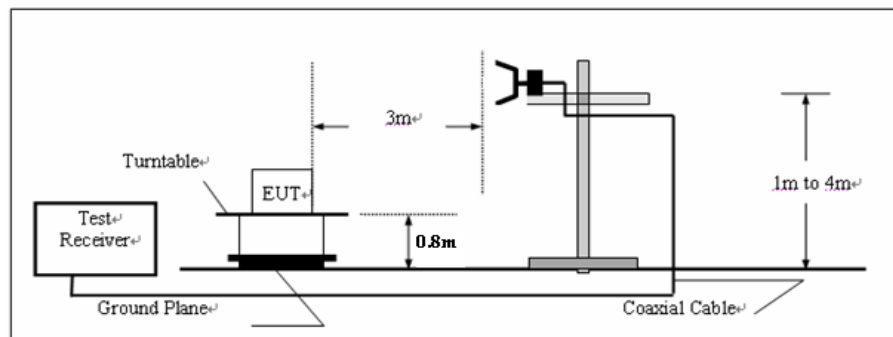
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground.
3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

TEST MODE:

Please refer to the clause 3.3

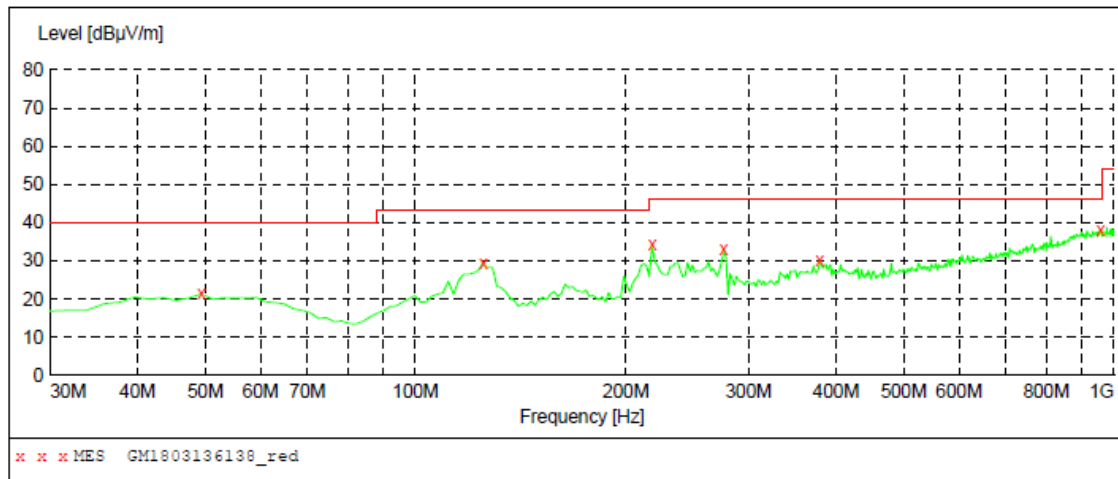
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

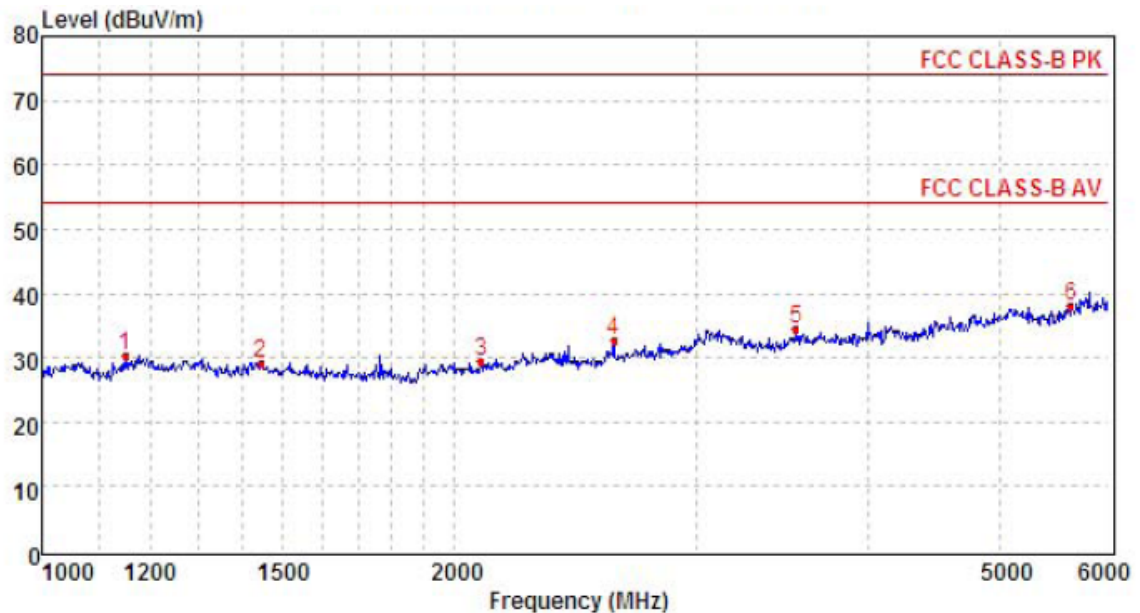
Polarization:

Horizontal

**MEASUREMENT RESULT: "GM1803136138_red"**

3/13/2018 9:53PM

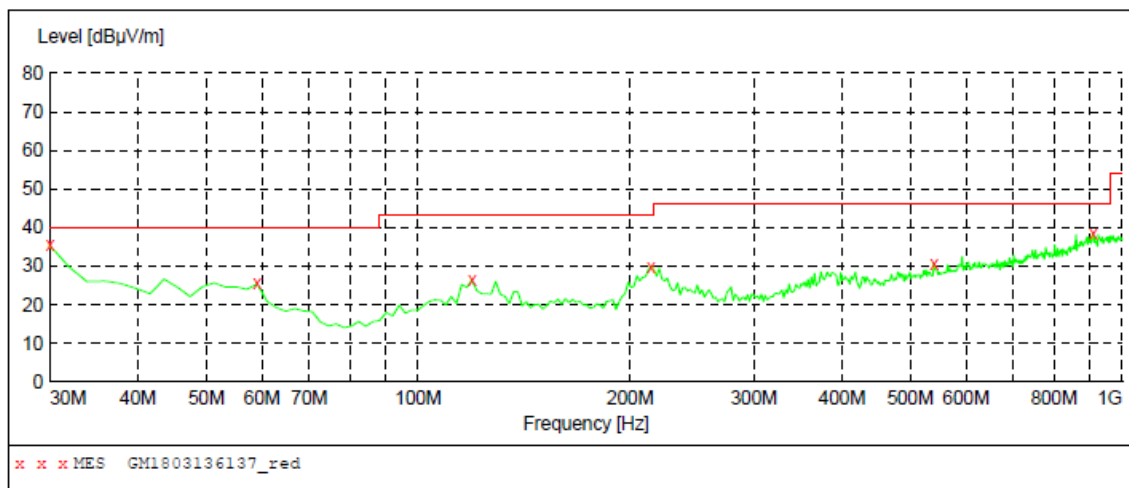
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	21.40	-8.7	40.0	18.6	QP	100.0	48.00	HORIZONTAL
125.060000	29.60	-12.9	43.5	13.9	QP	300.0	207.00	HORIZONTAL
218.180000	34.20	-10.0	46.0	11.8	QP	100.0	245.00	HORIZONTAL
276.380000	33.00	-7.9	46.0	13.0	QP	100.0	288.00	HORIZONTAL
379.200000	30.10	-5.0	46.0	15.9	QP	100.0	203.00	HORIZONTAL
957.320000	38.00	7.3	46.0	8.0	QP	300.0	97.00	HORIZONTAL



Mark	Frequency MHZ	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1150.00	36.4	25.9	4.5	36.6	30.2	74.0	-43.8	Peak
2	1443.85	34.8	25.9	5.1	36.5	29.3	74.0	-44.7	Peak
3	2092.18	33.7	26.7	6.3	37.3	29.4	74.0	-44.6	Peak
4	2612.70	35.8	27.8	6.9	37.9	32.6	74.0	-41.4	Peak
5	3549.38	35.4	29.1	8.2	38.3	34.4	74.0	-39.6	Peak
6	5635.29	31.8	31.7	10.3	35.8	38.0	74.0	-36.0	Peak

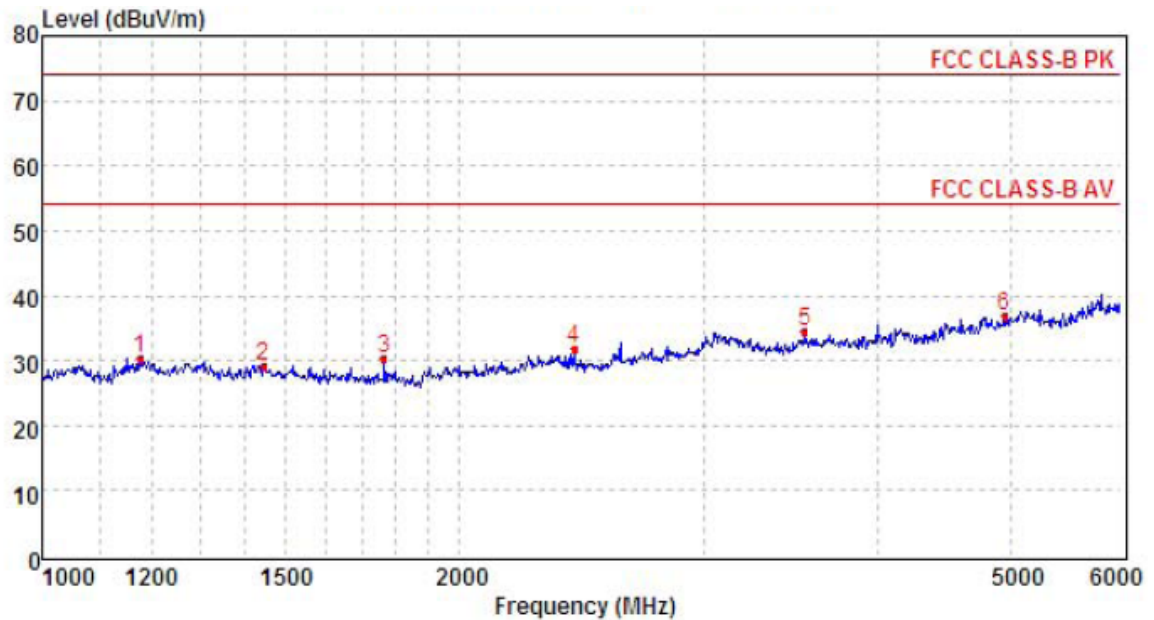
Polarization:

Vertical

**MEASUREMENT RESULT: "GM1803136137_red"**

3/13/2018 9:49PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	35.40	-13.3	40.0	4.6	QP	100.0	235.00	VERTICAL
59.100000	25.50	-9.8	40.0	14.5	QP	100.0	319.00	VERTICAL
119.240000	26.40	-12.2	43.5	17.1	QP	100.0	205.00	VERTICAL
214.300000	30.00	-10.3	43.5	13.5	QP	100.0	259.00	VERTICAL
540.220000	30.80	-1.0	46.0	15.2	QP	100.0	162.00	VERTICAL
908.820000	38.60	6.9	46.0	7.4	QP	100.0	360.00	VERTICAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1177.10	36.2	26.1	4.6	36.6	30.3	74.0	-43.7	Peak
2	1443.85	34.8	25.9	5.1	36.5	29.3	74.0	-44.7	Peak
3	1764.71	36.3	25.3	5.9	37.1	30.4	74.0	-43.6	Peak
4	2418.96	35.5	27.5	6.8	37.9	31.9	74.0	-42.1	Peak
5	3549.38	35.4	29.1	8.2	38.3	34.4	74.0	-39.6	Peak
6	4944.37	32.3	31.4	9.6	36.6	36.7	74.0	-37.3	Peak

6. TEST SETUP PHOTOS OF THE EUT

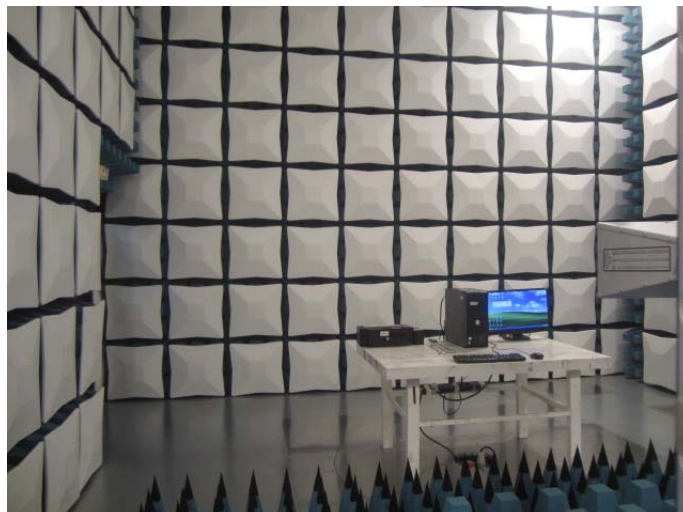
Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)





7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No.: TRE1803005301.

-----End of Report-----