



TEST REPORT

Report No. : CHTEW20100016 Report Verification: 
Project No..... : SHT2009042401EW
FCC ID..... : 2ASWW-SE218
Applicant's name..... : XINCHUANGXIN INTERNATIONAL CO.,LTD
Address..... : ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer..... : Shenzhen Chiteng Technology Co.,LTD
Address..... : Second Floor,Area A, Building 4, Huiye Technology Workshop, Guangang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong
Test item description : Feature Phone
Trade Mark : CORN
Model/Type reference..... : K5
Listed Model(s) : K7, K9, K10, K20
Standard : 47 CFR FCC Part 15 Subpart B
Date of receipt of test sample..... : Sep.18, 2020
Date of testing..... : Sep.18, 2020- Oct.09, 2020
Date of issue..... : Oct.10, 2020
Result..... : Pass

Compiled by
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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 corresponds to the test sample.

Contents

<u>1.</u>	<u>TEST STANDARDS AND REPORT VERSION</u>	<u>3</u>
1.1.	Test Standards	3
1.2.	Report version information	3
<u>2.</u>	<u>TEST DESCRIPTION</u>	<u>4</u>
<u>3.</u>	<u>SUMMARY.....</u>	<u>5</u>
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	EUT operation mode	5
3.4.	Configuration of Tested System	5
3.5.	Support unit used in test configuration	6
<u>4.</u>	<u>TEST ENVIRONMENT</u>	<u>7</u>
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
4.5.	Equipments Used during the Test	9
<u>5.</u>	<u>TEST CONDITIONS AND RESULTS</u>	<u>10</u>
5.1.	Conducted Emissions Test	10
5.2.	Radiated Emissions Test	13
<u>6.</u>	<u>TEST SETUP PHOTOS OF THE EUT</u>	<u>17</u>
<u>7.</u>	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	<u>18</u>

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 information

Revision No.	Date of issue	Description
N/A	2020-10-10	Original

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Jianquan Wu
Radiated Emissions	15.109(a)	PASS	Jianquan Wu

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

3. SUMMARY

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

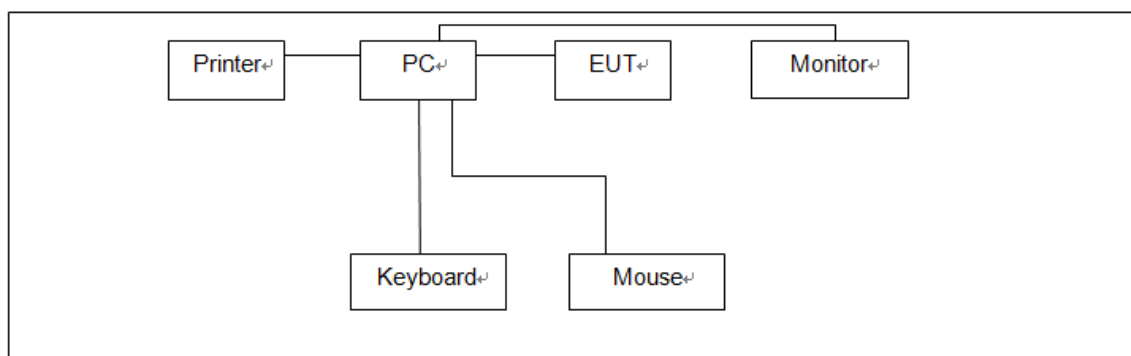
Name of EUT:	Feature Phone
Trade Mark:	CORN
Model No.:	K5
Listed Model(s)	K7, K9, K10, K20
Power supply:	DC 5V
Adapter information:	Model:FSF-01 Input: AC100-240V, 50/60Hz,0.25A Output: 5.0Vdc,500mA

3.3. EUT operation mode

Test mode	Describe
Camera recording mode	Keep the EUT in Camera recording status
Video Playing mode	Keep the EUT in Video Playing status
Data exchange mode	Keep the EUT in Data exchange with PC status

Pre-scan all of above modes. Only show camera recording mode for conducted emission, and data exchange mode for radiated emission, which is the worst case on 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.: 5377A

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. 5377A.

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	4.90 dB	(1)
Radiated Emissions	1~18GHz	4.96 dB	(1)
Conducted Disturbance	0.15~30MHz	3.02 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

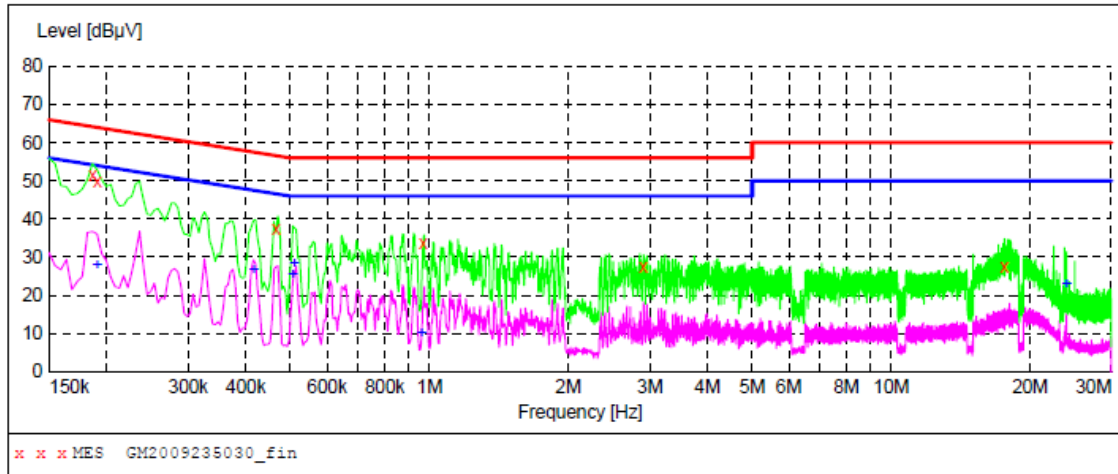
● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2019/10/26	2020/10/25
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX 142	EF-NM-BNCM-2M	2019/10/23	2020/10/22
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2019/10/26	2020/10/25
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2020/04/28	2023/04/27
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	RE-7-FH	N/A	2020/05/10	2021/05/09
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

Test Line:

L

**MEASUREMENT RESULT: "GM2009235030_fin"**

9/23/2020 11:22AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	51.60	10.0	64	12.6	QP	L1	GND
0.190500	49.70	10.0	64	14.3	QP	L1	GND
0.465000	37.40	10.1	57	19.2	QP	L1	GND
0.969000	33.70	10.1	56	22.3	QP	L1	GND
2.899500	27.30	10.2	56	28.7	QP	L1	GND
17.578500	27.30	10.5	60	32.7	QP	L1	GND

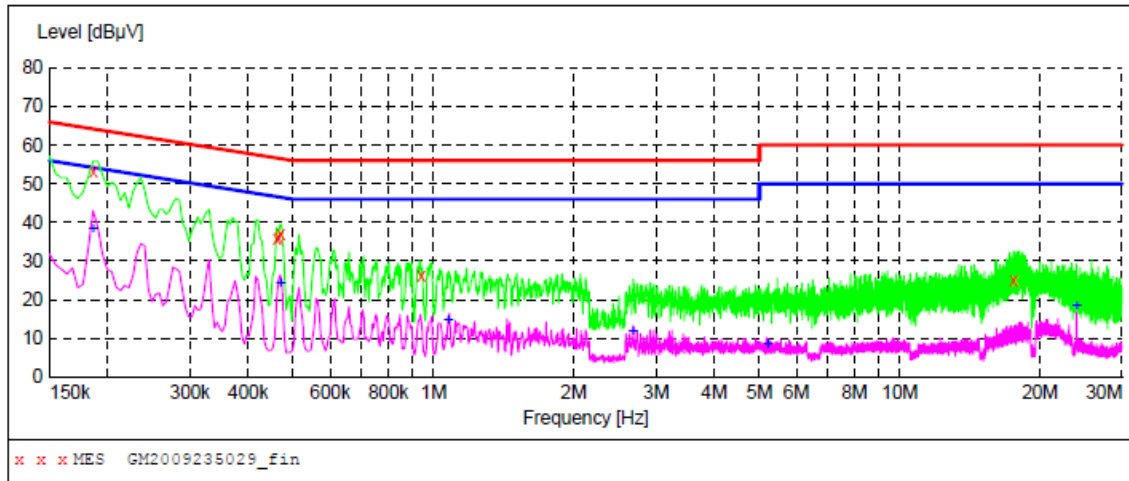
MEASUREMENT RESULT: "GM2009235030_fin2"

9/23/2020 11:22AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190500	28.00	10.0	54	26.0	AV	L1	GND
0.415500	26.60	10.1	48	20.9	AV	L1	GND
0.505500	25.50	10.1	46	20.5	AV	L1	GND
0.510000	28.30	10.1	46	17.7	AV	L1	GND
0.960000	9.90	10.1	46	36.1	AV	L1	GND
24.000000	22.90	10.5	50	27.1	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM2009235029_fin"**

9/23/2020 11:18AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	53.00	10.0	64	11.2	QP	N	GND
0.460500	35.70	10.1	57	21.0	QP	N	GND
0.465000	36.30	10.1	57	20.3	QP	N	GND
0.469500	37.00	10.1	57	19.5	QP	N	GND
0.942000	26.30	10.1	56	29.7	QP	N	GND
17.587500	24.80	10.5	60	35.2	QP	N	GND

MEASUREMENT RESULT: "GM2009235029_fin2"

9/23/2020 11:18AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	38.30	10.0	54	15.9	AV	N	GND
0.469500	24.00	10.1	47	22.5	AV	N	GND
1.077000	14.80	10.1	46	31.2	AV	N	GND
2.679000	11.90	10.2	46	34.1	AV	N	GND
5.217000	8.40	10.2	50	41.6	AV	N	GND
24.000000	18.40	10.5	50	31.6	AV	N	GND

5.2. Radiated Emissions Test

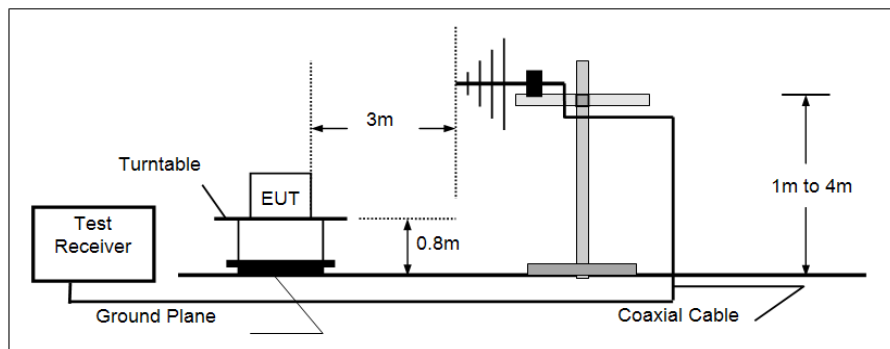
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

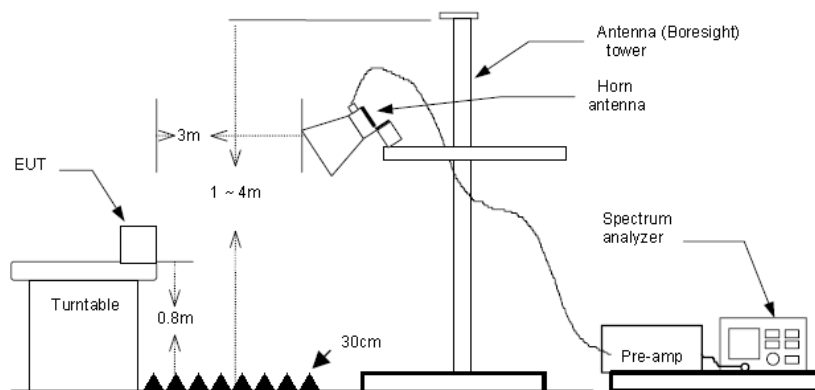
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

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

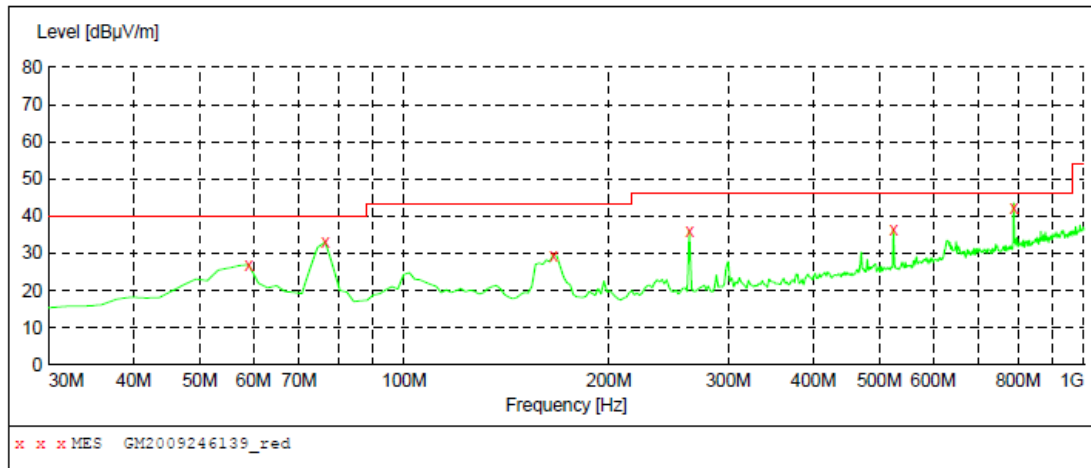
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

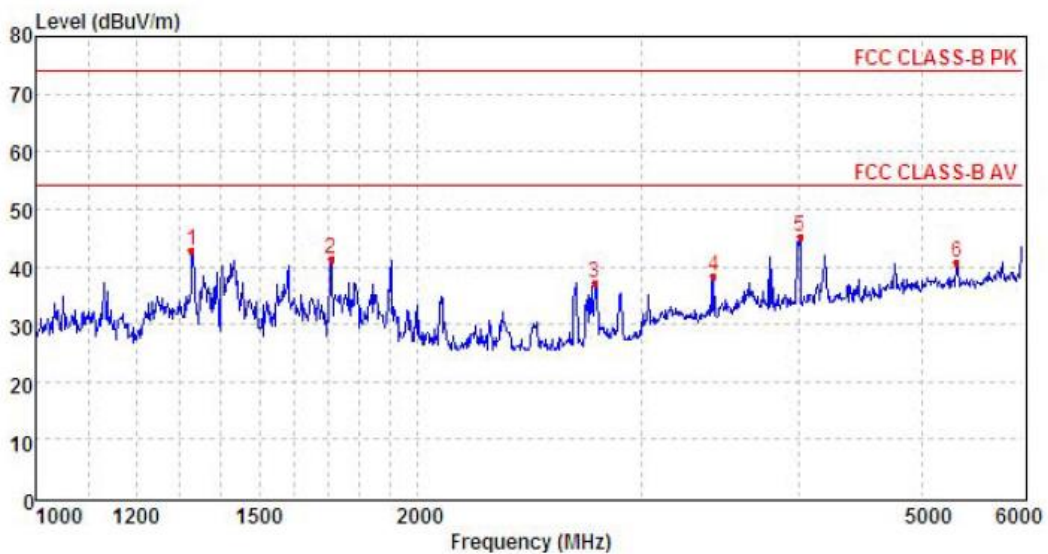
Polarization:

Horizontal

**MEASUREMENT RESULT: "GM2009246139_red"**

9/24/2020 10:58PM

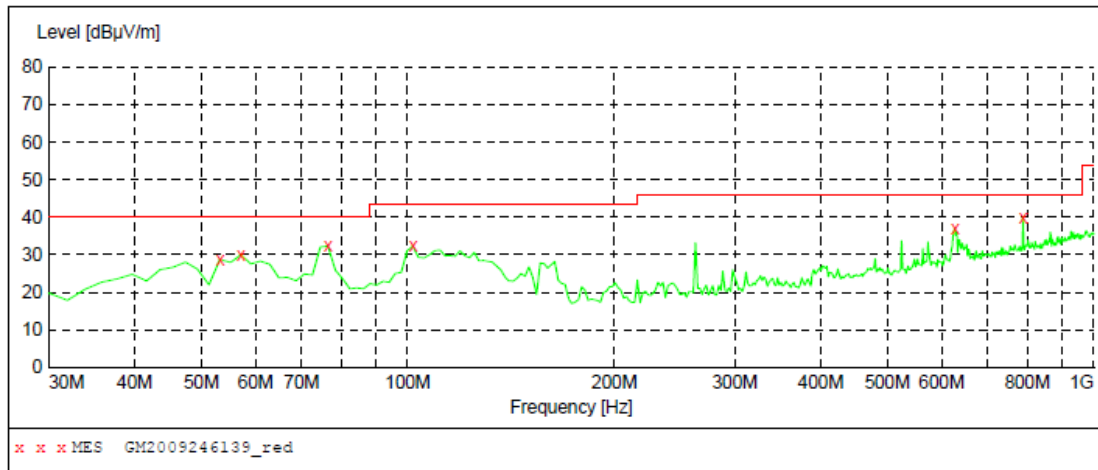
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
59.100000	27.00	-8.9	40.0	13.0	QP	300.0	29.00	HORIZONTAL
76.560000	33.10	-14.7	40.0	6.9	QP	300.0	179.00	HORIZONTAL
165.800000	29.60	-12.3	43.5	13.9	QP	100.0	191.00	HORIZONTAL
262.800000	35.90	-7.6	46.0	10.1	QP	100.0	213.00	HORIZONTAL
524.700000	36.40	-0.4	46.0	9.6	QP	100.0	238.00	HORIZONTAL
788.540000	41.80	5.8	46.0	4.2	QP	100.0	225.00	HORIZONTAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1327.24	47.68	26.16	5.45	36.37	42.92	74.00	-31.08	Peak
2	1708.71	47.31	25.12	6.15	37.11	41.47	74.00	-32.53	Peak
3	2756.98	38.10	28.23	8.12	37.24	37.21	74.00	-36.79	Peak
4	3424.44	37.12	28.75	9.24	36.61	38.50	74.00	-35.50	Peak
5	4002.11	41.61	29.90	10.18	36.34	45.35	74.00	-28.65	Peak
6	5321.27	32.62	31.44	12.03	35.41	40.68	74.00	-33.32	Peak

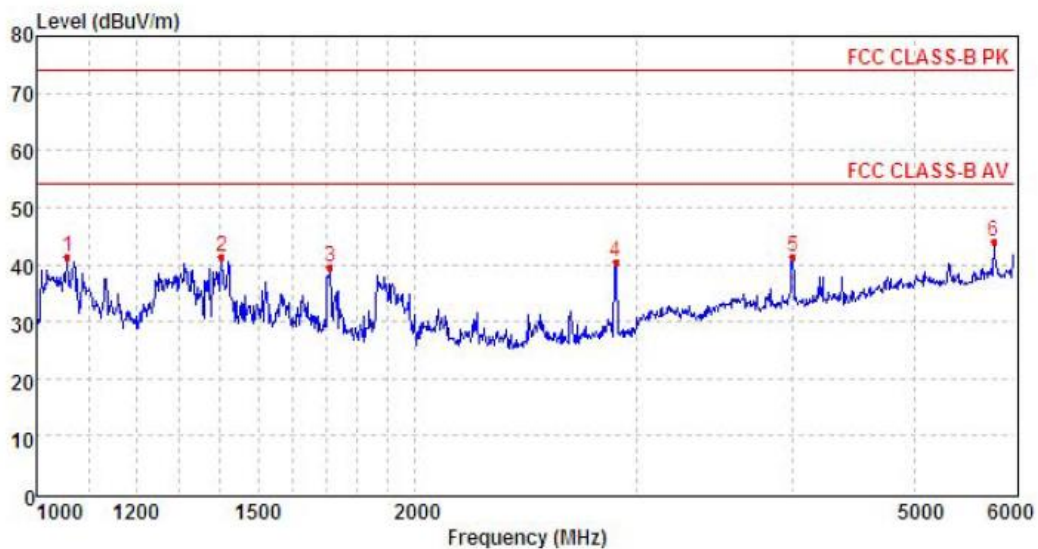
Polarization:

Vertical

**MEASUREMENT RESULT: "GM2009246139_red"**

9/24/2020 11:09PM

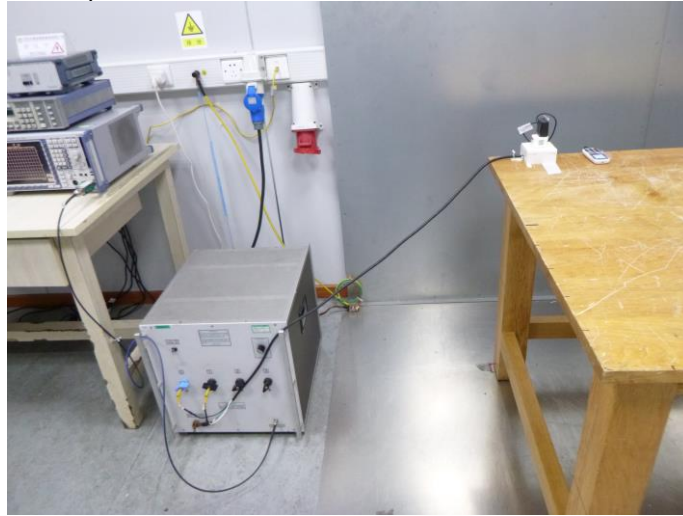
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000	28.70	-8.3	40.0	11.3	QP	100.0	339.00	VERTICAL
57.160000	30.00	-8.5	40.0	10.0	QP	100.0	44.00	VERTICAL
76.560000	32.30	-14.7	40.0	7.7	QP	100.0	276.00	VERTICAL
101.780000	32.30	-9.9	43.5	11.2	QP	100.0	353.00	VERTICAL
627.520000	36.90	2.4	46.0	9.1	QP	100.0	202.00	VERTICAL
788.540000	40.00	5.8	46.0	6.0	QP	100.0	327.00	VERTICAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1059.01	48.19	25.24	4.92	36.97	41.38	74.00	-32.62	Peak
2	1403.04	46.29	26.10	5.55	36.59	41.35	74.00	-32.65	Peak
3	1711.77	45.32	25.12	6.16	37.11	39.49	74.00	-34.51	Peak
4	2888.46	40.81	28.60	8.32	37.38	40.35	74.00	-33.65	Peak
5	3994.95	37.51	29.90	10.17	36.37	41.21	74.00	-32.79	Peak
6	5778.43	34.62	31.96	12.31	34.87	44.02	74.00	-29.98	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.: CHTEW20100014

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