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FC	C REPORT
Report Reference No:	TRE1710003003 R/C: 63111
FCC ID:	2AAA6-S319T
Applicant's name:	SENWA MEXICO,S.A.DE C.V
Address	Av.Javier Barros Sierra 540,Torre I,Planta 5, COL.LOMAS DE SANTA FE DELEGACION,ALVARO OBREGON,Mexico
Manufacturer	Senwa Mobile HK Itd
Address	Room 910,International Trade Centre 11-19 Sha Tsui Road, Tsuen Wan,NT,HK
Test item description:	Mobile Phone
Trade Mark	SENWA
Model/Type reference:	S319T
Listed Model(s)	-
Standard:	47 CFR FCC Part 15 Subpart B - Unintentional Radiators ANSI C63.4: 2014
Date of receipt of test sample:	Oct.12, 2017
Date of testing	Oct.13, 2017 - Oct.31, 2017
Date of issue	Nov.01, 2017
Result:	Pass
Compiled by (position+printed name+signature):	File administrators Candy Liu
Supervised by (position+printed name+signature):	Project Engineer : Edward Pan Bolward. Pan
Approved by (position+printed name+signature):	Project Engineer : Edward Pan Bolward. Pan RF Manager Hans Hu Hours 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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In elest report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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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
00	Nov.01, 2017	Original

2. Test Description

Test Item	FCC Rule	Result
Conducted Emissions Test	15.107	Pass
Radiated Emission Test	15.109	Pass

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

3. <u>Summary</u>

3.1. Client Information

Applicant:	SENWA MEXICO,S.A.DE C.V	
Address:	Av.Javier Barros Sierra 540,Torre I,Planta 5, COL.LOMAS DE SANTA FE DELEGACION,ALVARO OBREGON,Mexico	
Manufacturer:	Senwa Mobile HK Itd	
Address:	Room 910,International Trade Centre 11-19 Sha Tsui Road, Tsuen Wan,NT,HK	

3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	SENWA
Model No.:	S319T
Listed Model(s):	-
IMEI 1:	352308090001323
Power supply:	DC 3.7V From exchange battery
Adaptar information	Input: 100-240Va.c., 50/60Hz, 0.15A
Adapter information:	Output: 5Vd.c.,500mA
Hardware version:	sc7701_barphone
Software version:	SENWA_S319T_Ver1.0

3.3. EUT operation mode

Test mode	Playing Video	Connect to PC (Down loading)	Camera	Adapter
1				
2				
3				

Note:

1. ■ is operation mode.

Pre-scan above all test mode, found below test mode which it was worse case mode.

Test item	Test mode (Worse case mode)
Conducted emission	Mode 2
Radiated emission	Mode 2

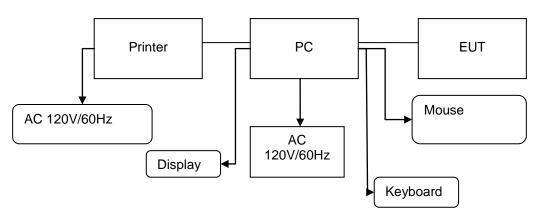
3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- supplied by the lab

	Length (m) :	
	Shield :	
	Detachable :	
	Manufacturer :	
	Model No. :	-

3.5. Configuration of Tested System



Configuration of Tested System

Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielded	Notes
1	PC	DELL	DIMEN SION E520	1RNN42X	/	/	DOC
2	Printer	ESPOn	C3990	C3990A	/	/	DOC
3	Mouse	DELL	MO56U OA	G0E02SY7	1.00m	unshielded	DOC
4	Display	DELL	1707FPt	CN-OFC237-71618- 65G-AAKC	/	/	DOC
5	Keyboard	DELL	L100	CNRH65665890726 009L	/	/	DOC
6	USB Cable (EUT to PC)	ITALCOM GROUP	USB 2.0	N/A	0.80m	unshielded	N/A
7	USB Cable (Printer to PC)	Genshuo	USB 2.0	N/A	1.20m	unshielded	N/A
8	Power line	/	/	N/A	1.00m	unshielded	N/A

4. <u>TEST ENVIRONMENT</u>

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.

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. Equipments Used during the Test

Cond	ucted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2016/11/13
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2016/11/13
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2016/11/13
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	N/A
Radia	ted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	MATURO	TT2.0		N/A
5	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
6	EMI TEST Software	Rohde & Schwarz	ESK1	N/A	N/A
7	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde & Schwarz	JS4-00101800- 28-5A	F201504	2016/11/13
11	TURNTABLE	ETS	2088	2149	N/A
12	ANTENNA MAST	ETS	2075	2346	N/A
13			HF906	100039	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

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

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

4.5. 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 Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 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.

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

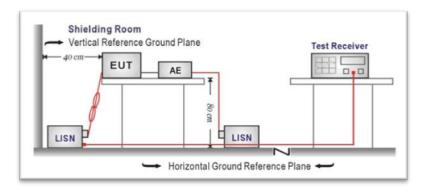
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)				
r requercy range (Miriz)	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 platform of nominal size, 1 m by 1.5 m, raised 80 cm above theconducting ground plane. The vertical conducting plane was located 40 cm to the rear of theEUT. All other surfaces of EUT were at least 80 cm from any other grounded conductingsurface.
- 3. The EUT and simulators are connected to the main power through a line impedancestabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (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 foldedback 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 30MHzusing a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

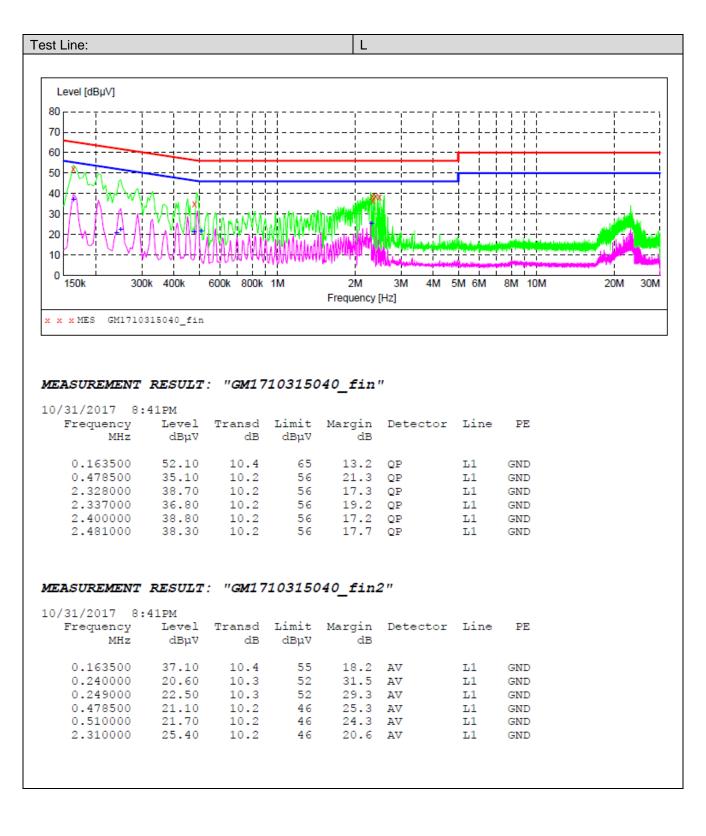
TEST MODE:

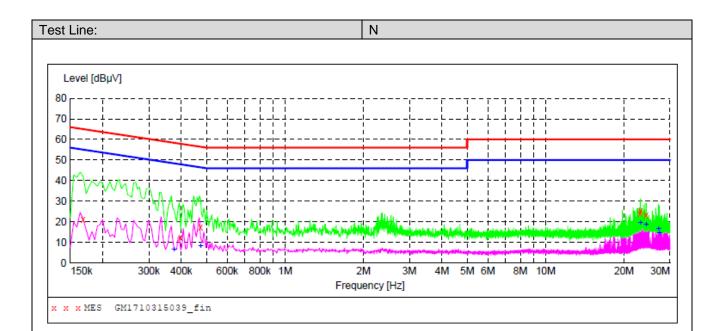
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:Transd=Cable lose+ PULSE LIMITER factor+ ARTIFICIAL MAINS factor; Margin= Limit -Level





MEASUREMENT RESULT: "GM1710315039 fin"

10/31/2017 8:39PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.168000 21.30 10.4 65 43.8 QP Ν GND 45.5 QP 0.397500 12.40 10.2 58 GND Ν 0.474000 17.40 10.2 56 39.0 QP GND N 24.00 10.7 60 36.0 QP 25.40 10.7 60 34.6 QP 23.10 10.7 60 36.9 QP 23.064000 N GND 34.6 QP 36.9 QP Ν 23.122500 GND 24.346500 Ν GND

MEASUREMENT RESULT: "GM1710315039 fin2"

10/31/2017	8:39PM						
Frequency	/ Level	Transd	Limit	Margin	Detector	Line	PE
MHz	: dBµV	dB	dBµV	dB			
0.375000	6.40	10.2	48	42.0			CNE
					AV	N	GND
0.474000) 8.30	10.2	46	38.1	AV	N	GND
23.127000	19.60	10.7	50	30.4	AV	N	GND
24.346500	18.80	10.7	50	31.2	AV	N	GND
27.154500	16.60	10.7	50	33.4	AV	N	GND
27.339000	14.60	10.7	50	35.4	AV	N	GND

5.2. Radiated Emission Test

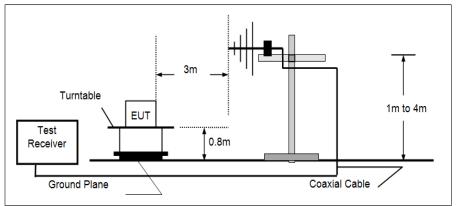
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

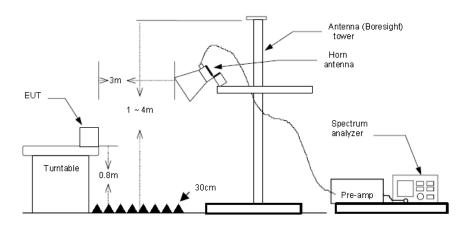
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

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. The turn table is rotated360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. 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.
- 5. 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 detectoris 3 dB lower than the

applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported. (3) Above 1GHz, RBW=1MHz, VBW=3MHz

TEST MODE:

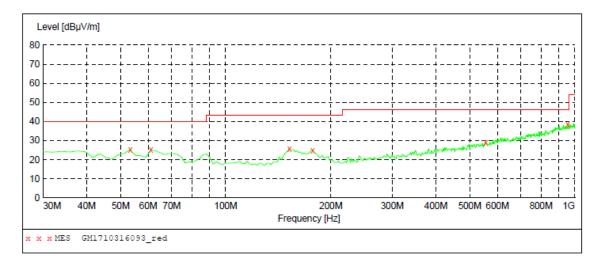
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

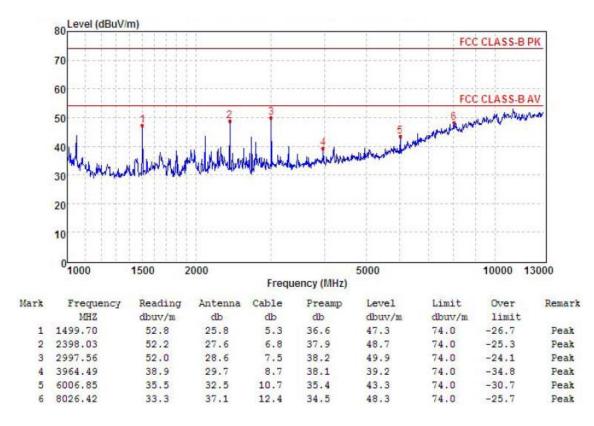
Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

Vertical

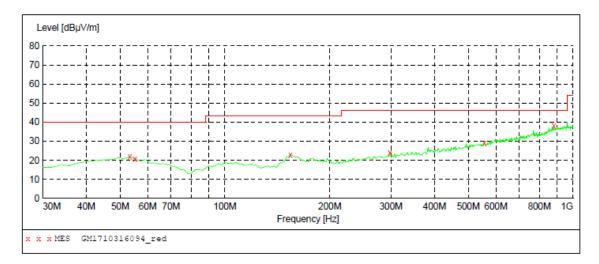


MEASUREMENT RESULT: "GM1710316093_red"

10/31/2017 7 Frequency MHz			Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000	25.30	-9.0	40.0	14.7	QP	100.0	0.00	VERTICAL
61.040000	25.20	-10.3	40.0	14.8	QP	100.0	0.00	VERTICAL
152.220000	25.70	-13.7	43.5	17.8	QP	100.0	288.00	VERTICAL
177.440000	25.00	-12.5	43.5	18.5	QP	100.0	0.00	VERTICAL
555.740000	29.00	-0.6	46.0	17.0	QP	100.0	316.00	VERTICAL
953.440000	38.30	7.3	46.0	7.7	QP	100.0	185.00	VERTICAL

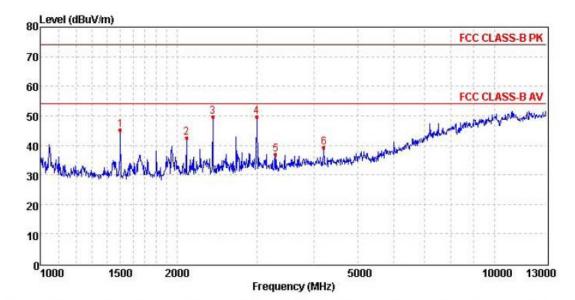


Horizontal



MEASUREMENT RESULT: "GM1710316094_red"

10/31/2017 7 Frequency MHz			Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000 55.220000	21.90 20.70	-9.0 -9.2	40.0 40.0	18.1 19.3		300.0 300.0	175.00 82.00	HORIZONTAL HORIZONTAL
154.160000	22.70	-13.7	43.5		QP	100.0	201.00	HORIZONTAL
297.720000 555.740000	24.10 29.00	-7.3	46.0 46.0	21.9 17.0	QP OP	100.0 300.0	119.00 272.00	HORIZONTAL HORIZONTAL
879.720000	38.00	6.3	46.0	8.0	QP	100.0	119.00	HORIZONTAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBu∀/m	Over limit	Remark
1	1499.70	50.58	25.80	5.28	36.59	45.07	74.00	-28.93	Peak
2	2098.60	46.87	26.69	6.35	37.32	42.59	74.00	-31.41	Peak
з	2398.03	53.19	27.61	6.77	37.89	49.68	74.00	-24.32	Peak
4	2997.56	51.83	28.60	7.48	38.23	49.68	74.00	-24.32	Peak
5	3295.97	39.32	28.22	7.84	38.37	37.01	74.00	-36.99	Peak
6	4205.41	38.03	30.01	8.95	37.65	39.34	74.00	-34.66	Peak

6. Test Setup Photos of the EUT

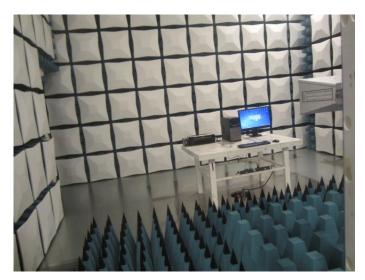
Conducted Emission Connect to PC



Radiated Emission (30MHz-1GHz) Connect to PC



Radiated Emission (above 1GHz) Connect to PC





7. External and Internal photos of the EUT

Reference to the test report No.: TRE1710003001.

.....End of Report.....