

EMI TEST REPORT

FCC CERTIFICATION

Applicant:
FUCDELAB
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Gwangju, Republic of Korea

Date of Issue: November 22, 2018
Test Report No. HCT-EM-1811-FC013
Test Site: HCT CO., LTD.

MODEL:

KISSIN

Rule Part(s) / Standard(s): FCC CFR 47 PART 15 Subpart B Class B
ANSI C63.4-2014

EUT Type: NATURALISE LOUVENIR

Variant Model: CLOISINNE95, LONG LIFE, Y, PEONY, DEMON,
COMBTEETH, MUNTIN, LOTUS

Date of Test: November 06, 2018

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Tested By



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REVISION HISTORY

The revision history for this document is shown in table.

Report No.	Issue Date	Information about Changes
HCT-EM-1811-FC013	November 22, 2018	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

The EUT is NATURALISE LOUVENIR

Model	KISSIN
Variant Model	CLOISINNE95, LONG LIFE, Y, PEONY, DEMON, COMBTEETH, MUNTIN, LOTUS
EUT Type	NATURALISE LOUVENIR
Frequency	2 402 MHz to 2 480 MHz
Power Rating	Input voltage: DC 5 V / 1 A, Battery: 3.7 V
Manufacturer	FUCDELAB

1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
EUT	KISSIN	-	FUCDELAB
Travel adaptor	ETA0U83KWK	-	SAMSUNG

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB	N	N/A	1.2

* The marked "(P)" means the power cable.

1.4 Noise Suppression Parts on Cable. (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB	N	N/A	Y	Both End



1.5 Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Registration Number
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	90661
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	

1.6 Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

1.7. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Emission (0.15 MHz to 30 MHz)	1.82 dB
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB
10 m Radiated Emissions (30 MHz to 1 GHz)	5.01 dB
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB
Radiated Emissions (18 GHz to 40 GHz)	5.40 dB



2. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	CAL Date
<u>Conducted Emission</u>					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	06.27.2018
☐ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.24.2018
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.20.2017
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	05.03.2018
☒ Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Trilog Antenna	Schwarzbeck	VULB 9168	760	2 year	04.06.2017
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060-2M	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/7590 304/L	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060-2M	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/7590 304/L	N/A	-
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	01836	2 year	05.14.2018
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
☐ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
☐ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.20.2017
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.25.2018
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU26	100241	1 year	08.14.2018
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



3. DESCRIPTION OF TEST

3.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

[Conducted Emission Limit]

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dBμV)	Average (dBμV)	Quasi-Peak (dBμV)	Average (dBμV)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

*NOTE: Decreases with the logarithm of the frequency.



3.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014

- The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from 1 m to 4 m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to Peak and Average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. (1 GHz to 40 GHz)

[Radiated Emission Limits]

Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak (dB $\mu\text{V/m}$)	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak (dB $\mu\text{V/m}$)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Class A		Class B		
		Peak (dB $\mu\text{V/m}$)	Average (dB $\mu\text{V/m}$)	Peak (dB $\mu\text{V/m}$)	Average (dB $\mu\text{V/m}$)	
Above 1 000	3	80	60	74	54	

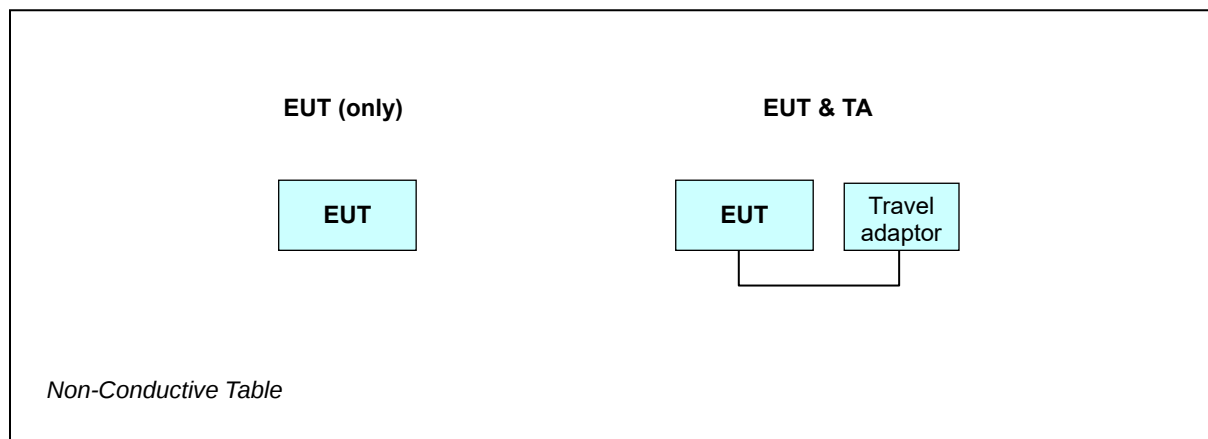


3.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

3.3 Configuration of Tested System





4. OPERATING MODES

4.1 Conducted Emission

During preliminary tests, the following operating mode was investigated:

☒ Idle mode & Maximum Brightness

4.2 Radiated Emission

During preliminary tests, the following operating mode was investigated:

☒ Idle mode & Maximum Brightness



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

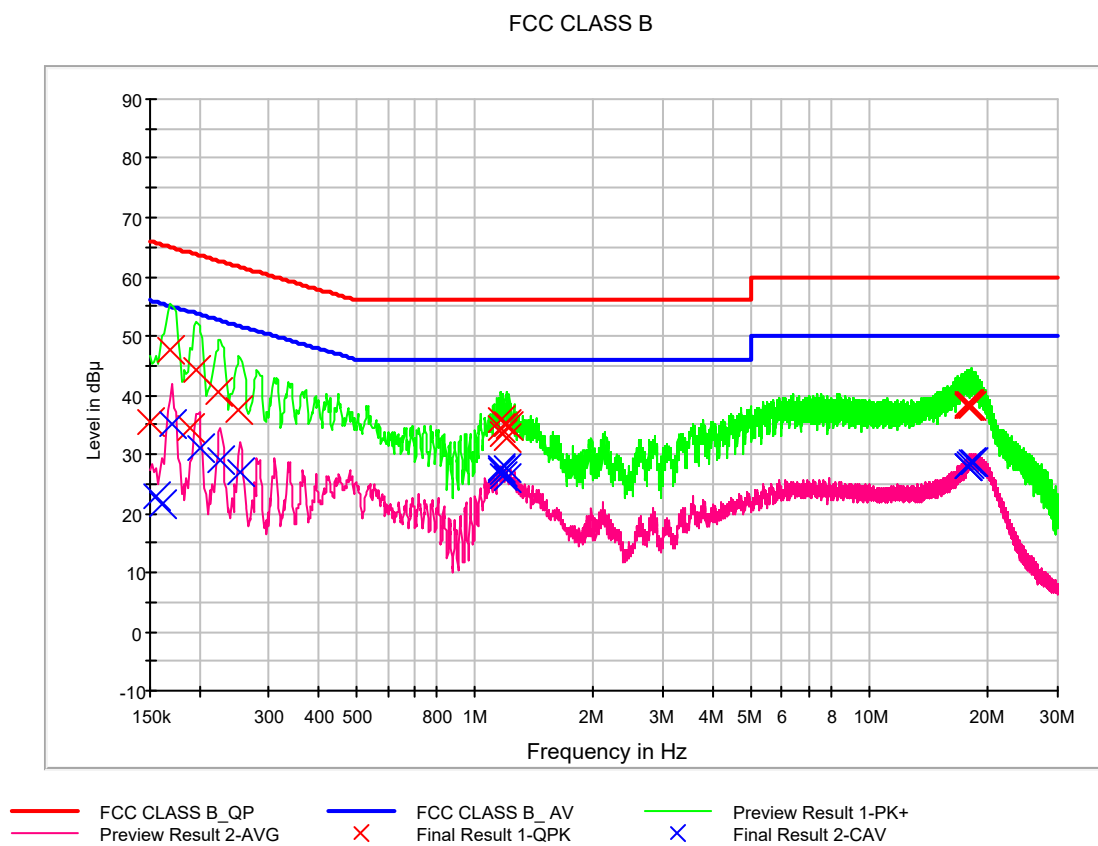
5.1 Conducted Emission

The test results of conducted emission at mains ports provide the following information:

Rule Part / Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	Idle mode & Maximum Brightness
Kind of Test Site	EMI Shielded Room
Temperature	23.3 °C
Relative Humidity	41.1 %
Test Date	November 06, 2018

※ Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

**Figure 1: Conducted Emission (0.15 to 30) MHz, Line (L1)**

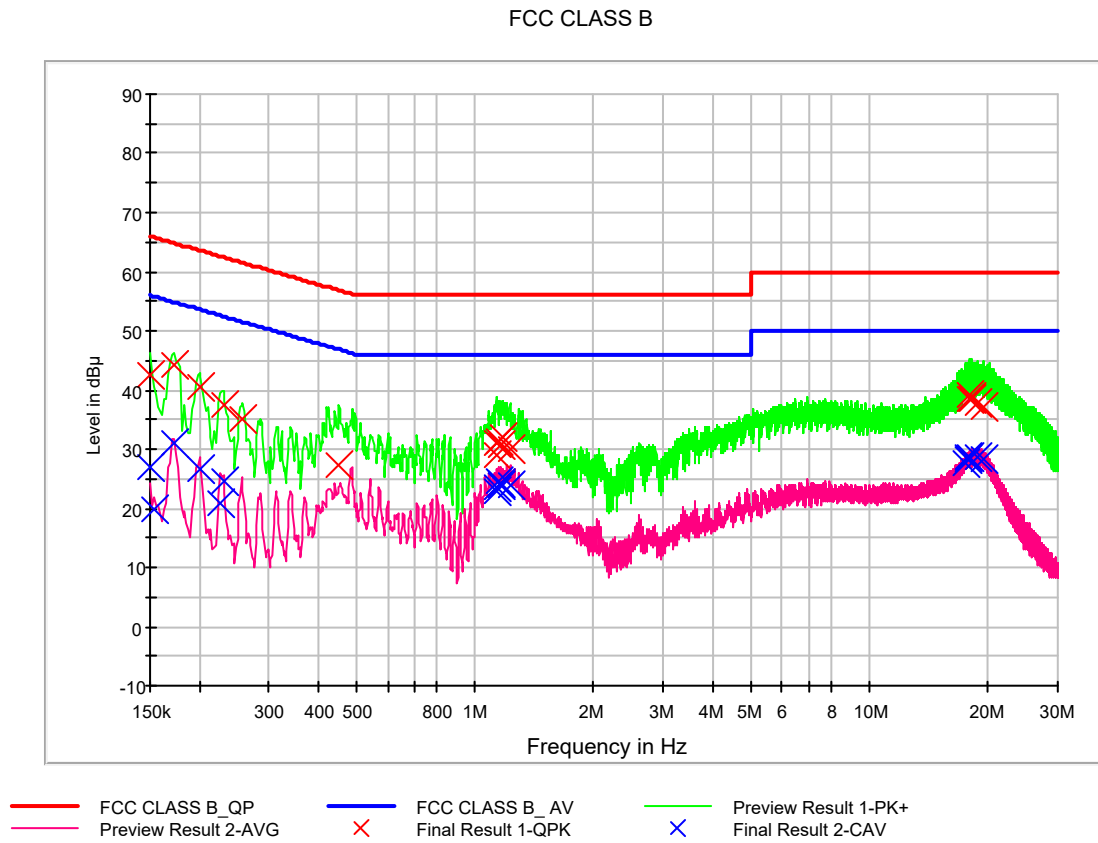


QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	35.4	9.000	L1	9.6	30.6	66.0
0.168000	47.5	9.000	L1	9.6	17.6	65.1
0.190000	34.3	9.000	L1	9.6	29.7	64.0
0.196000	44.2	9.000	L1	9.6	19.6	63.8
0.224000	40.6	9.000	L1	9.6	22.0	62.7
0.252000	37.6	9.000	L1	9.6	24.1	61.7
1.164000	35.9	9.000	L1	9.7	20.1	56.0
1.168000	34.4	9.000	L1	9.7	21.6	56.0
1.174000	33.5	9.000	L1	9.7	22.5	56.0
1.196000	35.2	9.000	L1	9.7	20.8	56.0
1.204000	32.7	9.000	L1	9.7	23.3	56.0
1.224000	34.7	9.000	L1	9.7	21.3	56.0
17.646000	38.4	9.000	L1	10.1	21.6	60.0
17.674000	38.2	9.000	L1	10.1	21.8	60.0
17.678000	38.2	9.000	L1	10.1	21.8	60.0
17.852000	38.2	9.000	L1	10.1	21.8	60.0
17.858000	38.4	9.000	L1	10.1	21.6	60.0
18.204000	38.2	9.000	L1	10.1	21.8	60.0

**CAverage Final Result, Line (L1)**

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.156000	23.0	9.000	L1	9.6	32.6	55.7
0.160000	21.5	9.000	L1	9.6	33.9	55.5
0.170000	35.0	9.000	L1	9.6	19.9	55.0
0.200000	30.9	9.000	L1	9.6	22.7	53.6
0.226000	29.1	9.000	L1	9.6	23.5	52.6
0.254000	26.9	9.000	L1	9.6	24.7	51.6
1.164000	27.7	9.000	L1	9.7	18.3	46.0
1.168000	27.4	9.000	L1	9.7	18.6	46.0
1.172000	26.9	9.000	L1	9.7	19.1	46.0
1.176000	26.2	9.000	L1	9.7	19.8	46.0
1.198000	27.7	9.000	L1	9.7	18.3	46.0
1.204000	26.1	9.000	L1	9.7	19.9	46.0
17.634000	28.0	9.000	L1	10.1	22.0	50.0
17.674000	28.0	9.000	L1	10.1	22.0	50.0
17.678000	28.1	9.000	L1	10.1	21.9	50.0
17.858000	28.3	9.000	L1	10.1	21.7	50.0
18.204000	28.6	9.000	L1	10.1	21.4	50.0
18.310000	28.7	9.000	L1	10.1	21.3	50.0

**Figure 2: Conducted Emission (0.15 to 30) MHz, Line (N)**



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	42.7	9.000	N	9.6	23.3	66.0
0.172000	44.2	9.000	N	9.6	20.7	64.9
0.200000	40.4	9.000	N	9.7	23.2	63.6
0.230000	37.5	9.000	N	9.7	25.0	62.4
0.258000	35.0	9.000	N	9.6	26.5	61.5
0.452000	27.4	9.000	N	9.7	29.4	56.8
1.132000	29.1	9.000	N	9.8	26.9	56.0
1.138000	31.1	9.000	N	9.8	24.9	56.0
1.150000	31.3	9.000	N	9.8	24.7	56.0
1.164000	30.7	9.000	N	9.8	25.3	56.0
1.172000	32.0	9.000	N	9.8	24.0	56.0
1.226000	30.0	9.000	N	9.8	26.0	56.0
18.020000	39.0	9.000	N	10.2	21.0	60.0
18.030000	38.6	9.000	N	10.2	21.4	60.0
18.050000	38.8	9.000	N	10.2	21.2	60.0
18.244000	38.5	9.000	N	10.2	21.5	60.0
18.728000	37.8	9.000	N	10.2	22.2	60.0
19.504000	37.3	9.000	N	10.2	22.7	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	27.0	9.000	N	9.6	29.0	56.0
0.154000	19.9	9.000	N	9.6	35.9	55.8
0.172000	30.9	9.000	N	9.6	24.0	54.9
0.200000	26.7	9.000	N	9.7	26.9	53.6
0.226000	21.0	9.000	N	9.7	31.6	52.6
0.230000	24.6	9.000	N	9.7	27.9	52.4
1.132000	22.8	9.000	N	9.8	23.2	46.0
1.138000	23.6	9.000	N	9.8	22.4	46.0
1.148000	24.7	9.000	N	9.8	21.3	46.0
1.164000	24.1	9.000	N	9.8	21.9	46.0
1.168000	24.3	9.000	N	9.8	21.7	46.0
1.226000	24.0	9.000	N	9.8	22.0	46.0
17.476000	27.7	9.000	N	10.2	22.3	50.0
17.750000	28.4	9.000	N	10.2	21.6	50.0
17.794000	28.5	9.000	N	10.2	21.5	50.0
18.030000	28.7	9.000	N	10.2	21.3	50.0
18.728000	28.7	9.000	N	10.2	21.3	50.0
19.504000	28.1	9.000	N	10.2	21.9	50.0



5.2 Radiated Emission

The test results of radiated emission provide the following information:

-For Measurement Below 1 GHz

Rule Part / Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operating Mode	Idle mode & Maximum Brightness
Kind of Test Site	3m semi anechoic chamber
Temperature	23.4 °C
Relative Humidity	43.2 %
Test Date	November 06, 2018

※ Calculation Formula:

1. POL. H: Horizontal, POL. V: Vertical
2. Quasi Peak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit – Quasi Peak

**EUT (only)**

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
31.502400	26.0	200.0	V	23.0	18.8	14.0	40.0
46.102400	17.5	225.1	V	220.0	20.0	22.5	40.0
63.718400	16.9	274.9	V	357.0	19.1	23.2	40.0
114.524800	23.5	292.8	V	143.0	17.2	20.0	43.5
426.412800	31.0	99.8	V	25.0	23.6	15.0	46.0
692.296800	28.5	99.8	H	75.0	28.6	17.5	46.0

EUT & Travel Adaptor

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
32.036000	25.0	199.8	V	30.0	18.9	15.0	40.0
55.288000	25.0	99.9	V	296.0	20.0	15.0	40.0
62.349600	22.0	99.8	V	267.0	19.3	18.0	40.0
223.945600	25.0	99.7	V	66.0	17.8	21.0	46.0
424.042400	30.0	99.9	V	1.0	23.5	16.0	46.0
679.543200	30.0	99.8	V	216.0	28.4	16.0	46.0
876.320800	30.6	125.2	V	340.0	30.9	15.4	46.0



-For Measurement Above 1 GHz

Rule Part / Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	2 480 MHz
Tested Frequency Range	1 GHz to 18 GHz
Operation Mode	Idle mode & Maximum Brightness
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.4 °C
Relative Humidity	43.2 %
Test Date	November 06, 2018

※ Calculation Formula:

1. POL. H: Horizontal, POL. V: Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage

**EUT (only)**

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1438.755000	30.3	161.5	V	186.0	-28.0	43.7	74.0
4549.235000	36.0	149.6	V	279.0	-19.4	38.0	74.0
4979.610000	36.7	298.6	H	318.0	-18.6	37.3	74.0
7276.760000	39.9	150.0	V	3.0	-13.6	34.1	74.0
9087.655000	43.2	150.0	V	240.0	-11.1	30.8	74.0
10057.225000	43.6	399.9	H	0.0	-9.1	30.4	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1438.755000	17.6	161.5	V	186.0	-28.0	36.4	54.0
4549.235000	23.2	149.6	V	279.0	-19.4	30.8	54.0
4979.610000	23.1	298.6	H	318.0	-18.6	30.9	54.0
7276.760000	27.5	150.0	V	3.0	-13.6	26.5	54.0
9087.655000	30.4	150.0	V	240.0	-11.1	23.6	54.0
10057.225000	30.9	399.9	H	0.0	-9.1	23.1	54.0

EUT & Travel Adaptor

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1058.165000	29.5	163.7	V	96.0	-29.6	44.5	74.0
1540.190000	31.1	149.9	H	176.0	-27.7	42.9	74.0
4469.245000	36.2	260.4	H	209.0	-19.6	37.8	74.0
6627.200000	38.5	377.7	V	207.0	-14.9	35.5	74.0
7441.400000	45.7	189.6	V	168.0	-12.9	28.3	74.0
10286.505000	44.4	139.6	V	0.0	-8.1	29.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1058.165000	17.0	163.7	V	96.0	-29.6	37.0	54.0
1540.190000	17.4	149.9	H	176.0	-27.7	36.6	54.0
4469.245000	23.1	260.4	H	209.0	-19.6	30.9	54.0
6627.200000	25.8	377.7	V	207.0	-14.9	28.2	54.0
7441.400000	30.0	189.6	V	168.0	-12.9	24.0	54.0
10286.505000	31.3	139.6	V	0.0	-8.1	22.7	54.0



6. CONCLUSION

The data collected shows that the **EUT Type: NATURALISE LOUVENIR, Model: KISSIN** complies with §15.107 and §15.109 of the FCC rules.