



ISO/IEC17025 Accredited Lab.

Report No: FCC 1205085-05

File reference No: 2012-06-05

Applicant: Coby Communications Ltd.

Product: Mobile Internet Device

Model No: MID1042

Trademark: COBY

Test Standards: FCC Part 15 Subpart B: 2009

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4 and FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: June 05, 2012

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Coby Communications Ltd.
Address: Unit C-E, 8/F, PO Shau Centre Hong Kong
Telephone: 85227595838
Fax: 85227595887

1.3 Description of EUT

Product: Mobile Internet Device
Manufacturer: Shenzhen COBY Communications LTD.
Brand Name: COBY
Model Number: MID1042
Additional Model Number: N/A
Power Adapter Model: PS14K0502000U5, Input :100-240V~, 50-60Hz,0.35A;
Output: DC5V, 2000mA

1.4 Submitted Sample: 2 Sample

1.5 Test Duration: 2012-05- 13 to 2012-06-05

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2012.4.21	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2012.4.21	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2012.4.21	1 Year
LISN	ESH3-Z5	100294	RS	2012.4.21	1 Year
LISN	ESH3-Z5	100253	RS	2012.4.21	1 Year
LISN	LS16C	10010947251	AFJ	2012.4.21	1 Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2012.4.21	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2012.4.21	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2012.4.21	1 Year
Amplifier	8447D	2727A05017	HP	2012.4.21	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2012.4.21	1 Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2012.4.21	1 Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
U-disk	U208	--	Netac	--	FCC DOC
SD	--	--	Kingston	--	--
PC	R400	--	IBM	--	FCC ID
Mouse	M-F105	--	L.SEletron	--	FCC DOC
Earphone	--	--	--	--	--

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2.4 Information of ferrite cores used on OTG and USB Cable

Manufacture	Description	Specification
Shenzhen Jinpuhui Technology Co., Ltd	Nickel-Zinc ferrite core	RH14.2×28.5×6.35

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B: 2009

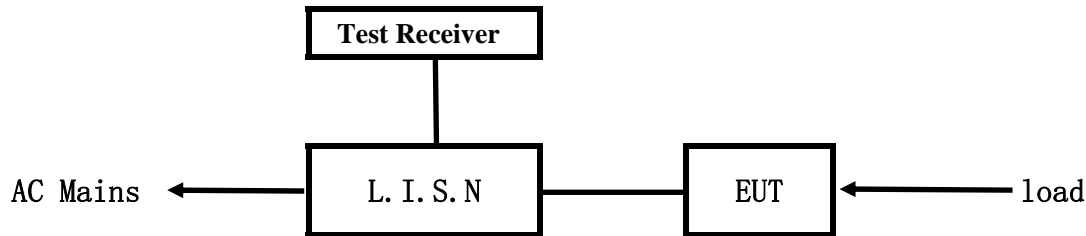
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4.0 Conducted Power line Test

4.1 Schematics of the test



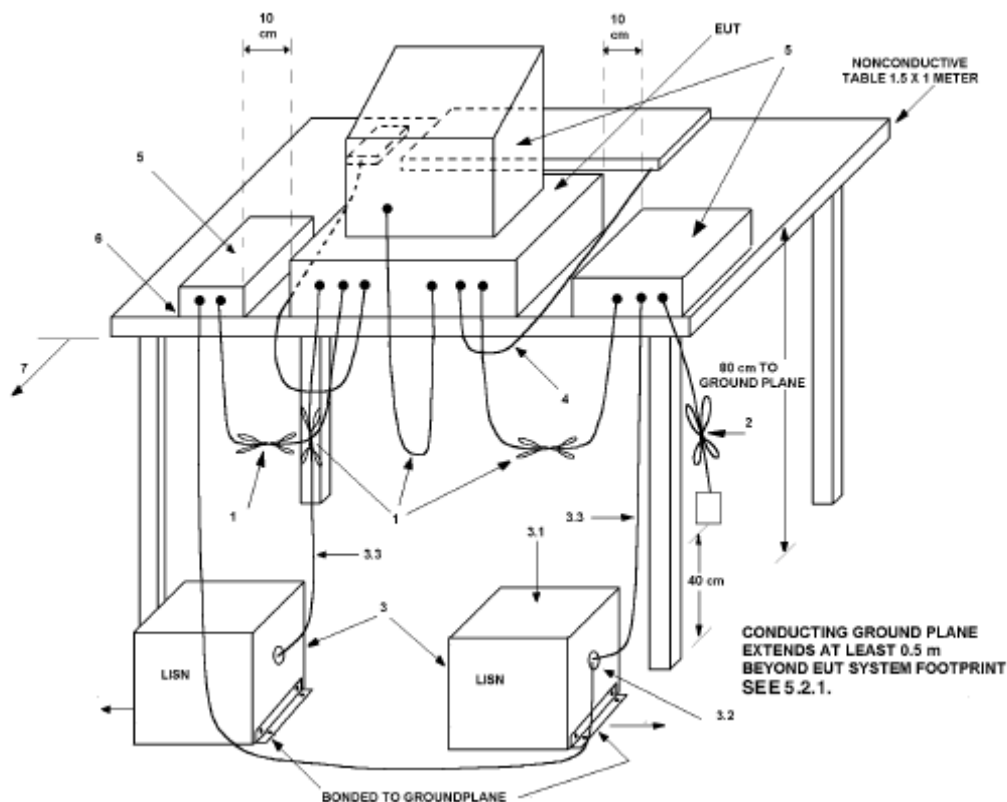
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2009. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μ V)		Class B Limits dB(μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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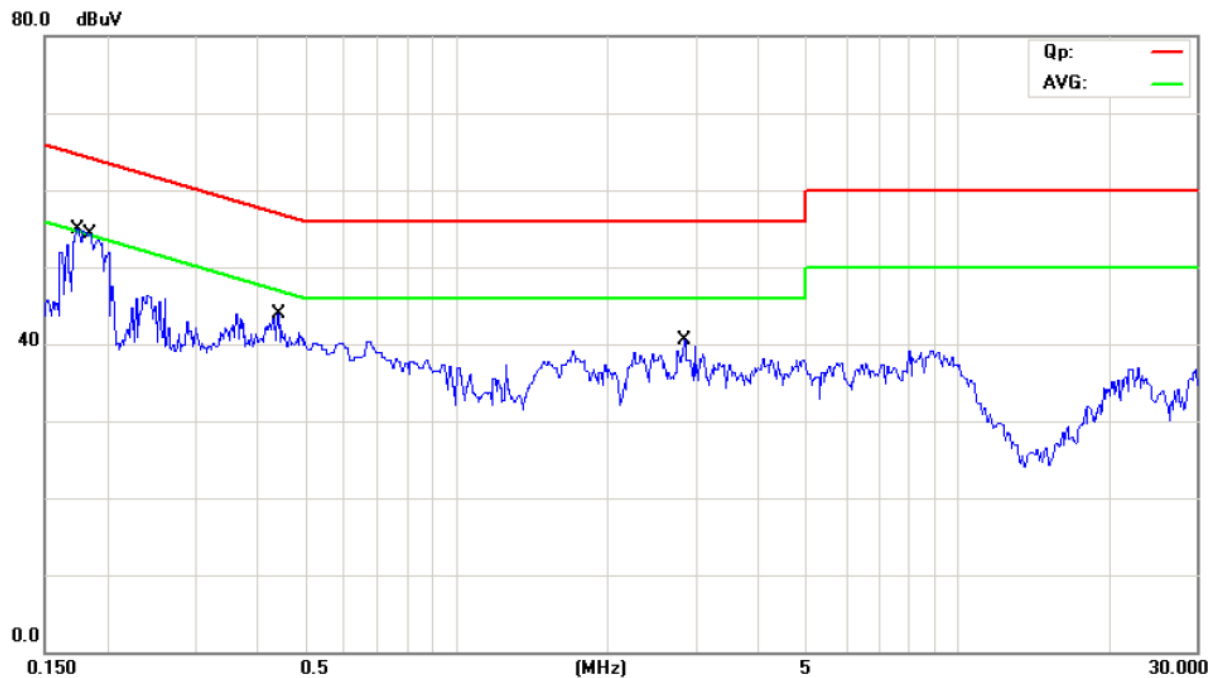


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep WIFI Transmitting, Play Memory and Running EMC test
Software with HDMI output

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit	
	Line		Neutral		(dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.172	51.52	36.92	--	--	64.84	54.84
0.436	39.00	27.10	--	--	57.13	47.13
2.840	40.52	24.17	--	--	56.00	46.00
0.185	54.22	39.68	--	--	64.26	54.26

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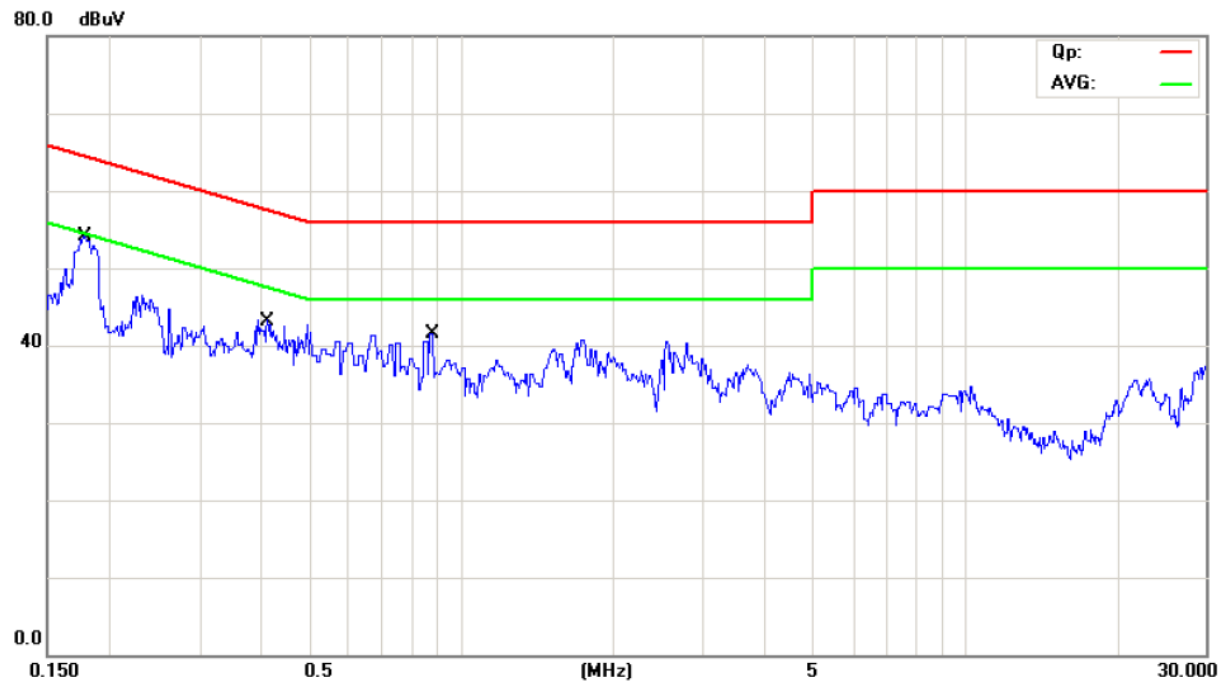


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep WIFI Transmitting, Play Memory and Running EMC test Software with HDMI output

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	
	Quasi-peak	Average	Quasi-peak	Average		
0.177	--	--	51.03	37.33	64.60	54.60
0.409	--	--	43.20	24.70	57.65	47.65
0.871	--	--	41.44	26.59	56.00	46.00

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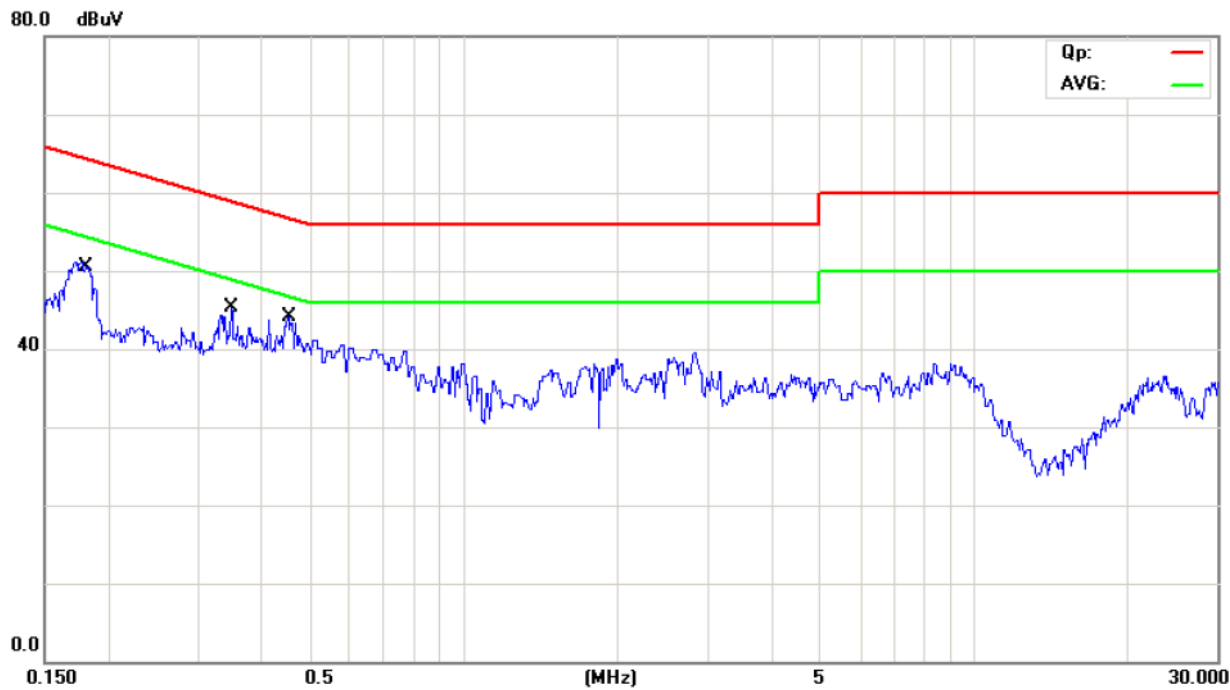


C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC and Full Load

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.180	47.50	35.30	--	--	64.46	54.46
0.347	42.22	29.82	--	--	59.02	49.02
0.449	42.07	29.57	--	--	56.89	46.89

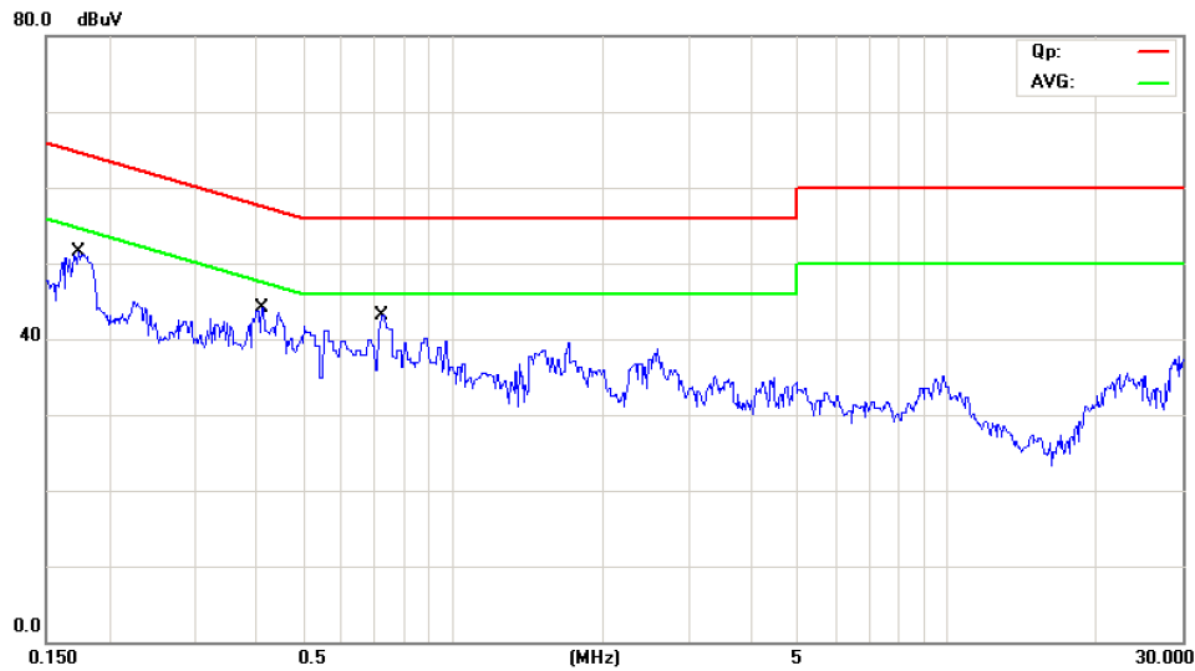
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D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC and Full Load

Results: Pass
Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.174	--	--	48.45	36.85	64.75	54.75
0.410	--	--	42.11	28.51	57.63	47.63
0.725	--	--	40.03	29.93	56.00	46.00

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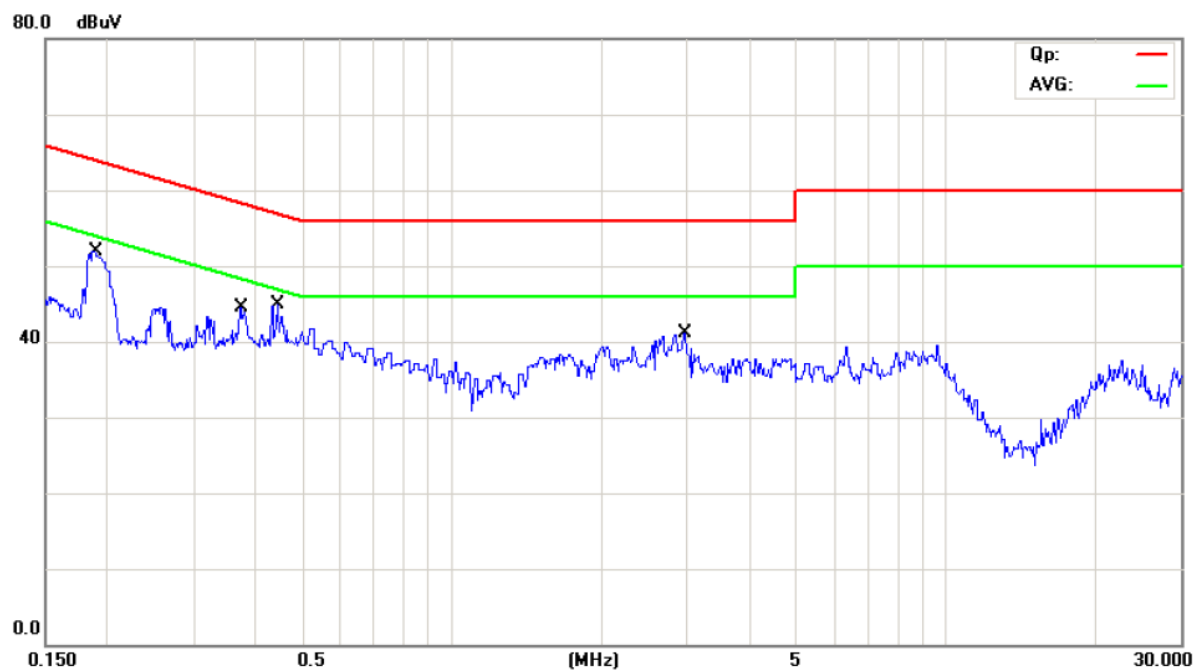


E Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play TF Card with HDMI output and Keep WIFI Receiving and Full Load

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.188	49.64	36.74	--	--	64.12	54.12
0.441	44.88	27.52	--	--	57.04	47.04
0.371	44.57	32.54	--	--	58.47	48.47
2.952	41.11	26.89	--	--	56.00	46.00

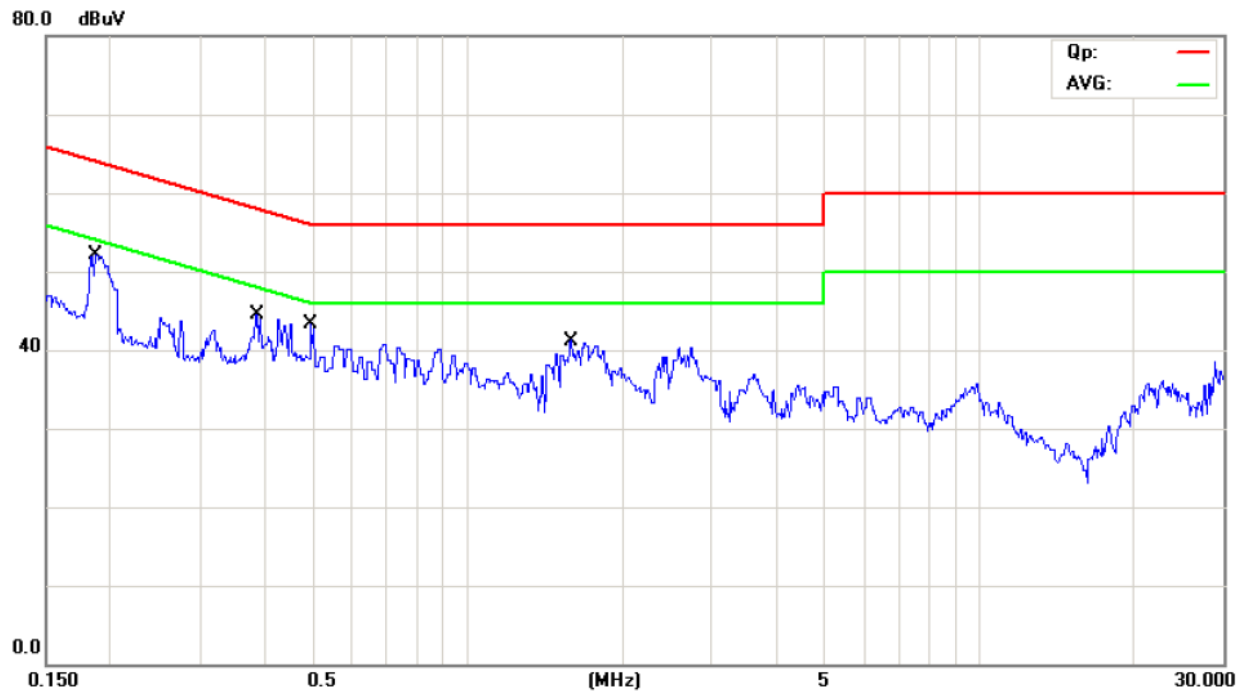
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F Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play TF Card with HDMI output and Keep WIFI Receiving and Full Load

Results: Pass
Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.187	--	--	47.84	34.54	64.17	54.17
0.385	--	--	44.49	31.72	58.16	48.16
0.494	--	--	43.34	30.61	56.10	46.10
1.591	--	--	41.20	27.28	56.00	46.00

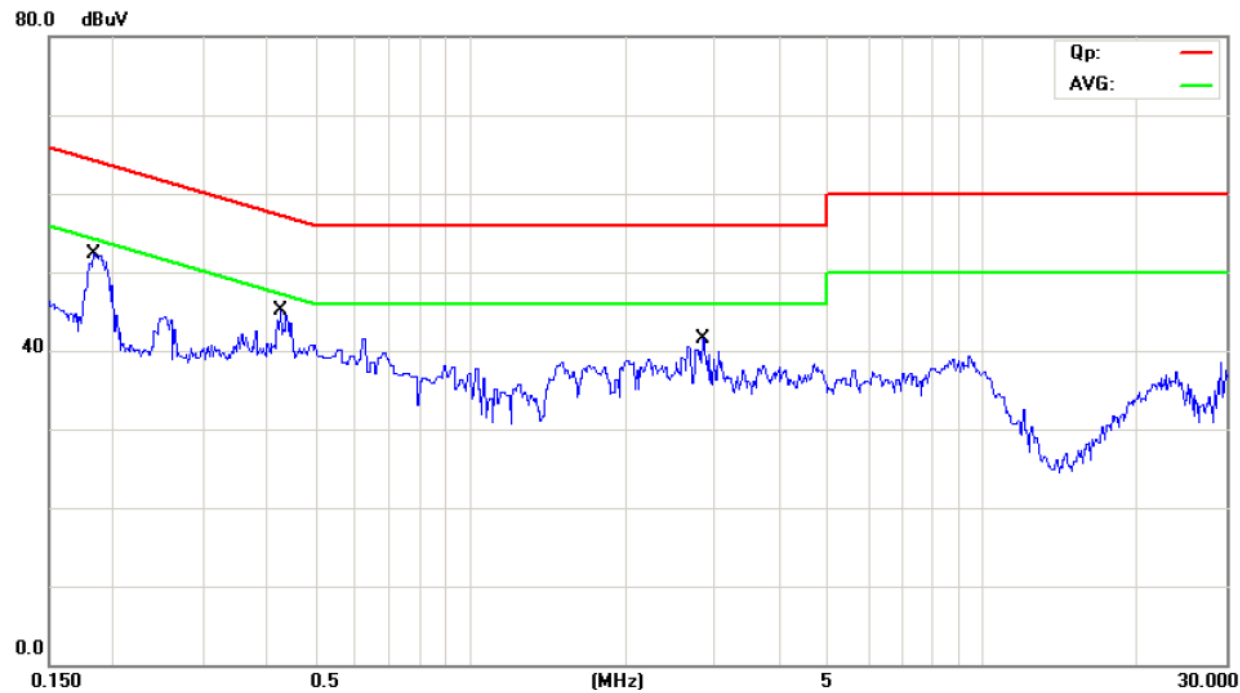
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G Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play USB with HDMI output and Full Load

Results: Pass
Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.184	49.34	34.74	--	--	64.30	54.30
0.424	45.01	31.54	--	--	57.36	47.36
2.840	41.51	26.89	--	--	56.00	46.00

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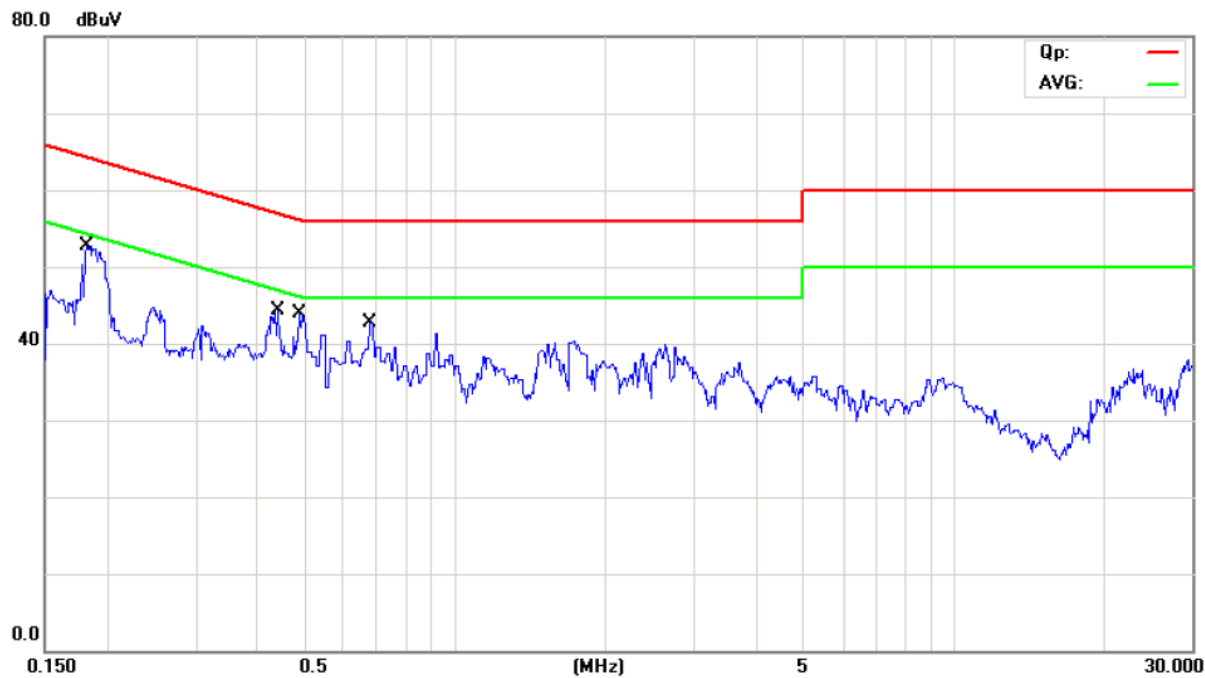


H Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play USB with HDMI output and Full Load

Results: Pass

Please refer to following diagram for individual

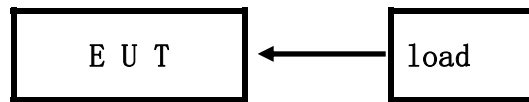


Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.181	--	--	50.98	34.68	64.44	54.44
0.438	--	--	42.27	27.58	57.09	47.09
0.485	--	--	43.81	25.60	56.25	46.25
0.680	--	--	42.74	24.77	56.00	46.00

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

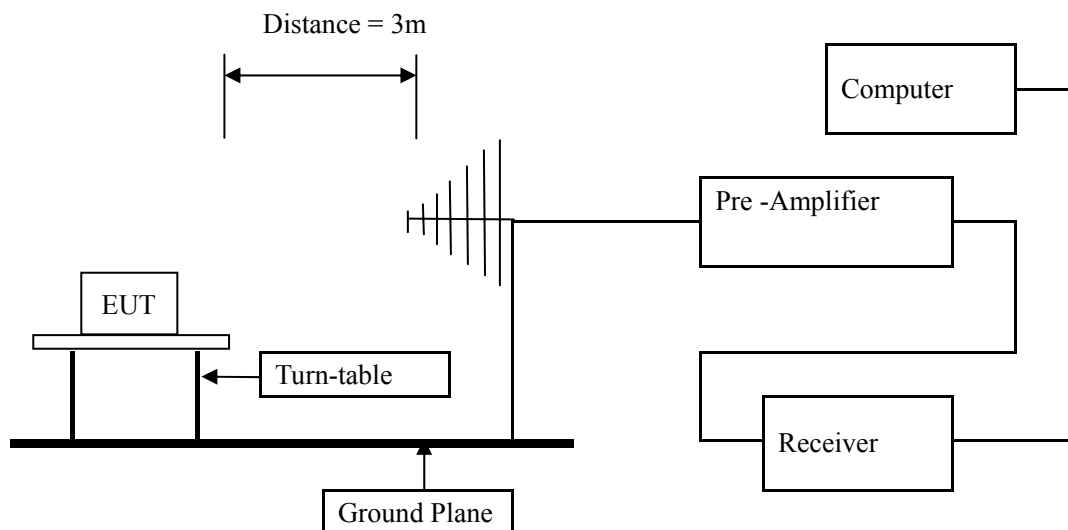


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003; The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

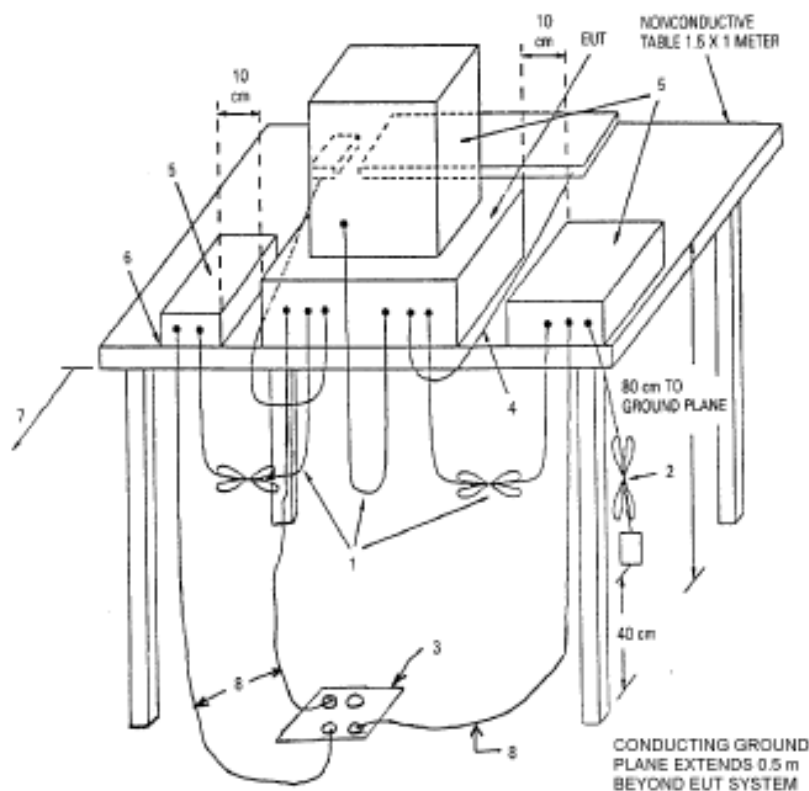
Block diagram of Test setup



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Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep WIFI Transmitting, Play Memory and Running EMC test
Software with HDMI output

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
166.072	37.67	H	43.50
255.491	39.30	H	46.00
315.751	39.52	H	46.00
362.404	39.68	H	46.00
479.038	39.72	H	46.00
720.080	38.45	H	46.00
39.737	34.55	V	40.00
57.214	31.66	V	40.00
115.531	32.32	V	43.50
315.751	39.09	V	46.00
479.038	39.17	V	46.00
582.064	35.61	V	46.00

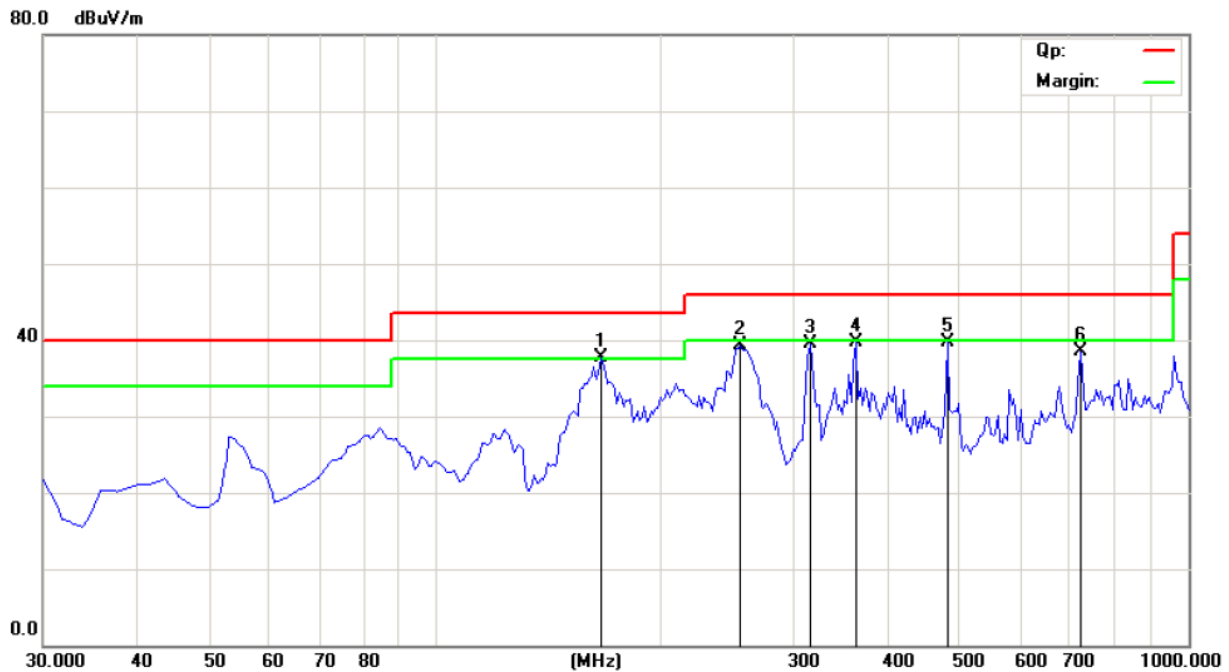
The report refers only to the sample tested and does not apply to the bulk.

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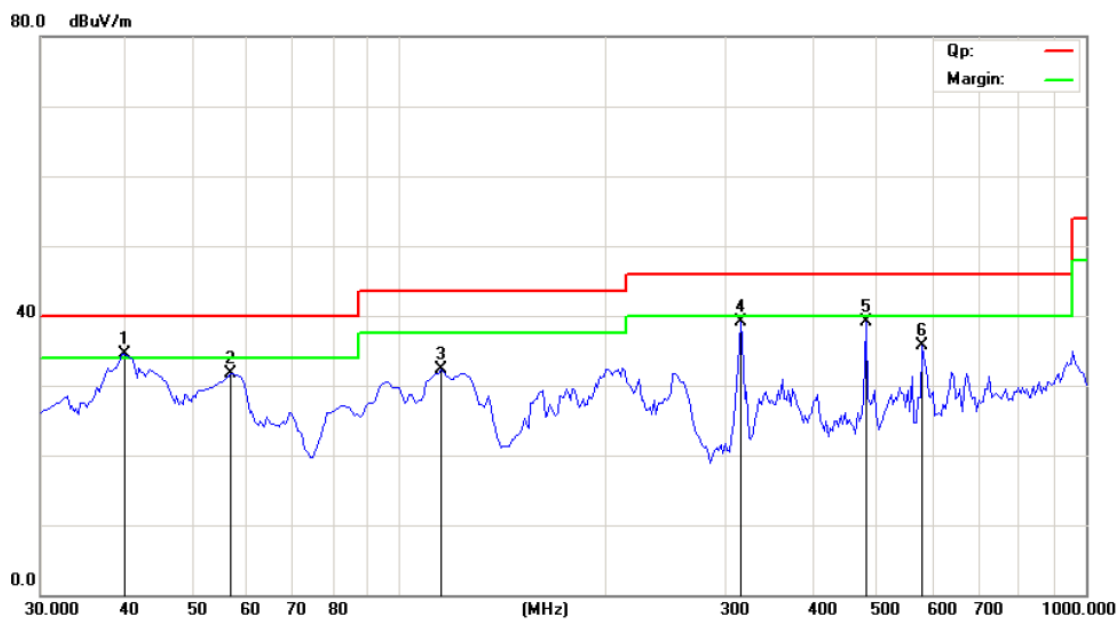
Test Figure:

H



Test Figure:

V



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Connected to PC and Full Load

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
164.128	37.42	H	43.50
243.827	38.84	H	46.00
315.751	39.31	H	46.00
479.038	37.37	H	46.00
720.080	38.10	H	46.00
961.122	34.88	H	54.00
36.267	34.93	V	40.00
59.158	33.52	V	40.00
317.695	38.60	V	46.00
479.038	38.88	V	46.00
582.064	36.93	V	46.00
834.769	38.31	V	46.00

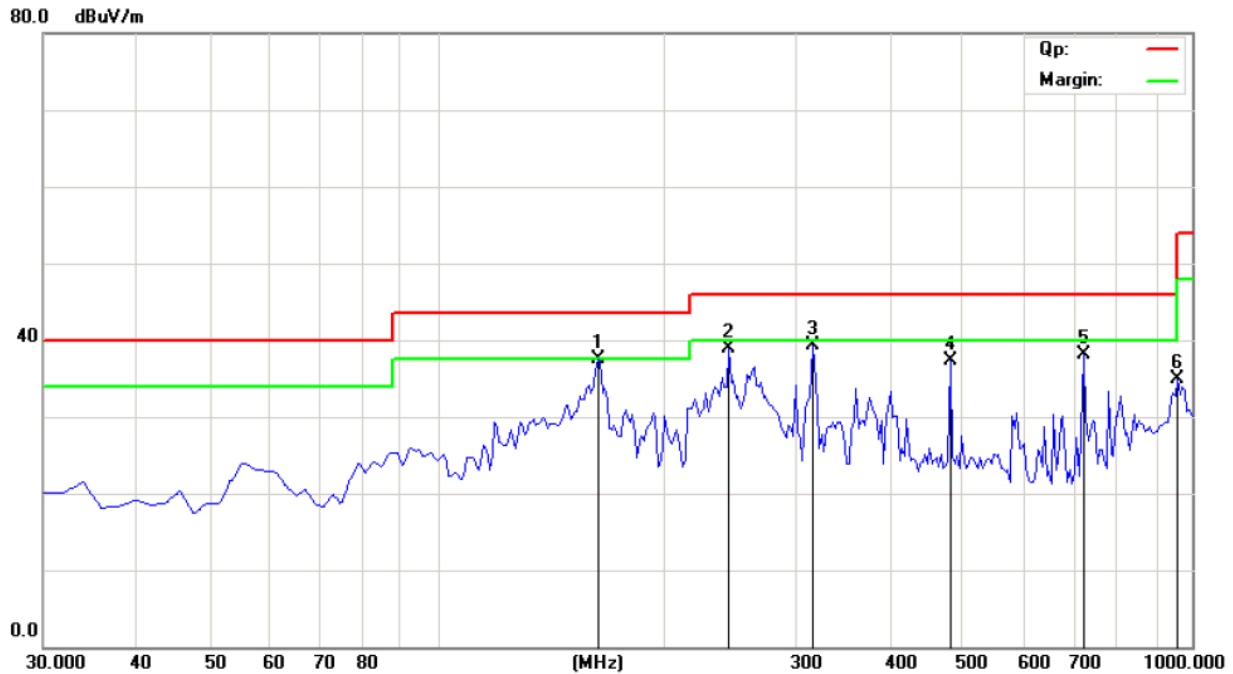
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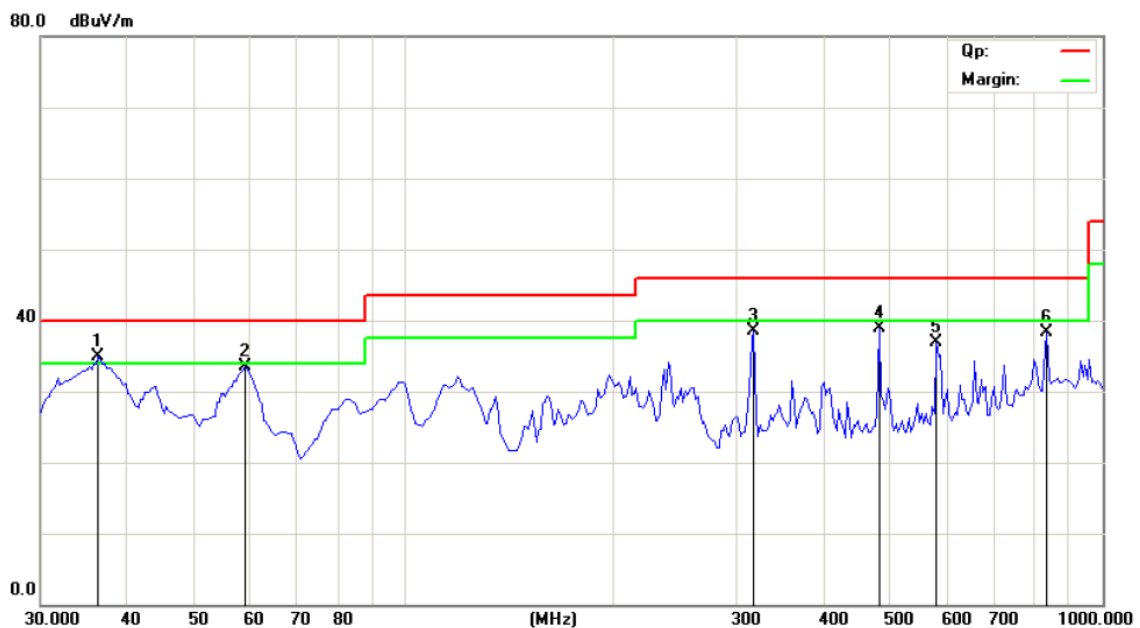
Test Figure:

H



Test Figure:

V



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Play TF Card with HDMI output and Keep WIFI Receiving and Full Load

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
162.184	37.72	H	43.50
224.388	39.56	H	46.00
315.751	40.78	H	46.00
479.038	39.32	H	46.00
679.258	38.05	H	46.00
961.122	36.64	H	54.00
39.737	34.48	V	40.00
59.158	32.73	V	40.00
224.388	35.38	V	46.00
315.751	40.06	V	46.00
479.038	38.26	V	46.00
582.064	35.54	V	46.00

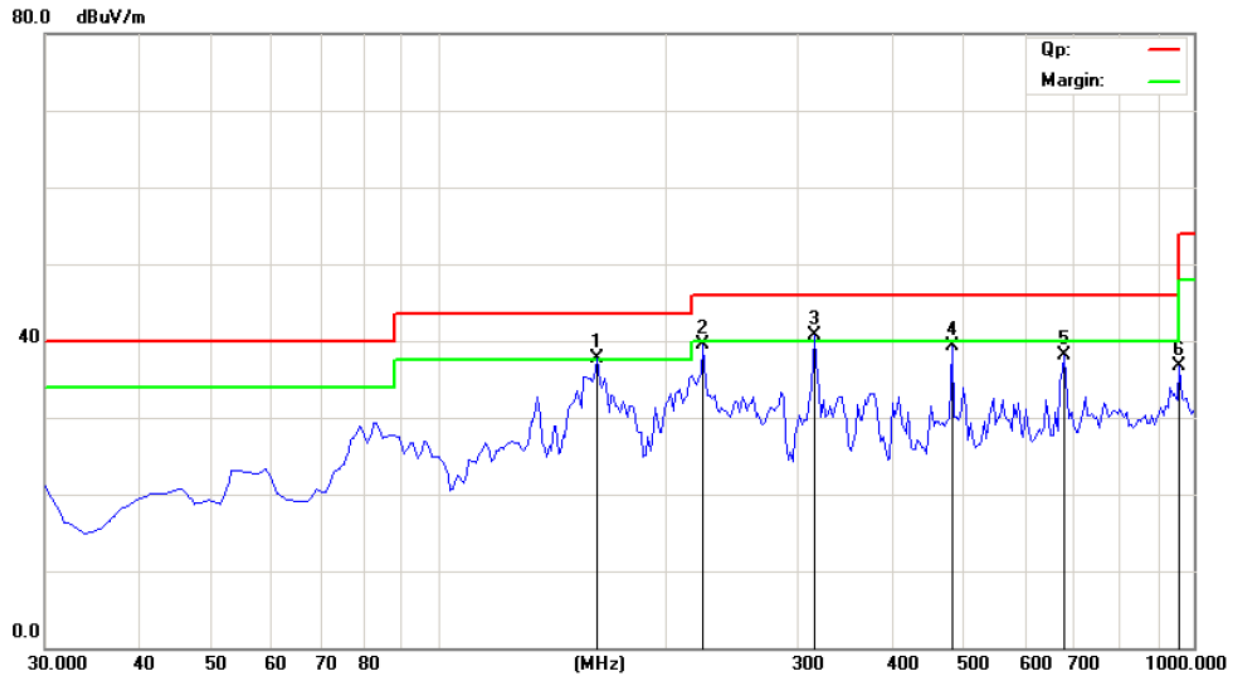
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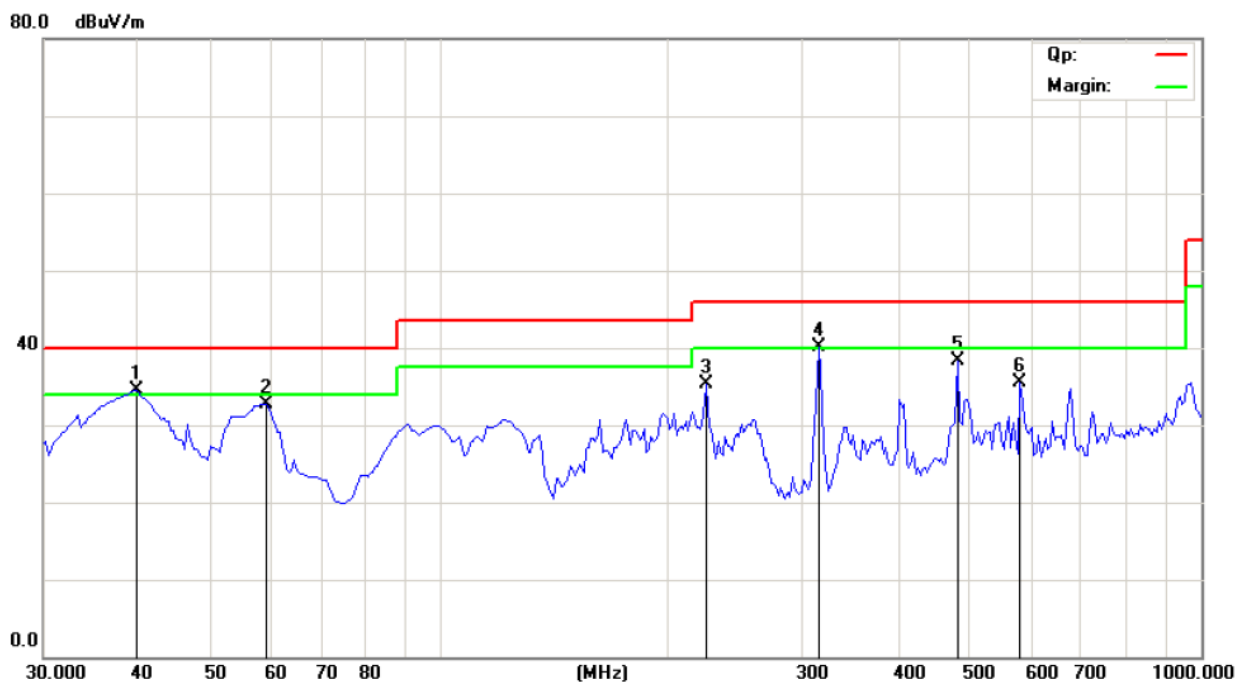
Test Figure:

H



Test Figure:

V



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Play USB with HDMI output and Full Load

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
162.184	36.75	H	43.50
208.837	34.88	H	43.50
315.751	39.72	H	46.00
479.038	37.69	H	46.00
671.483	36.77	H	46.00
813.386	37.86	H	46.00
35.831	34.61	V	40.00
57.214	31.82	V	40.00
121.362	32.12	V	43.50
204.950	32.40	V	43.50
315.751	40.13	V	46.00
479.038	38.17	V	46.00
582.064	39.56	V	46.00

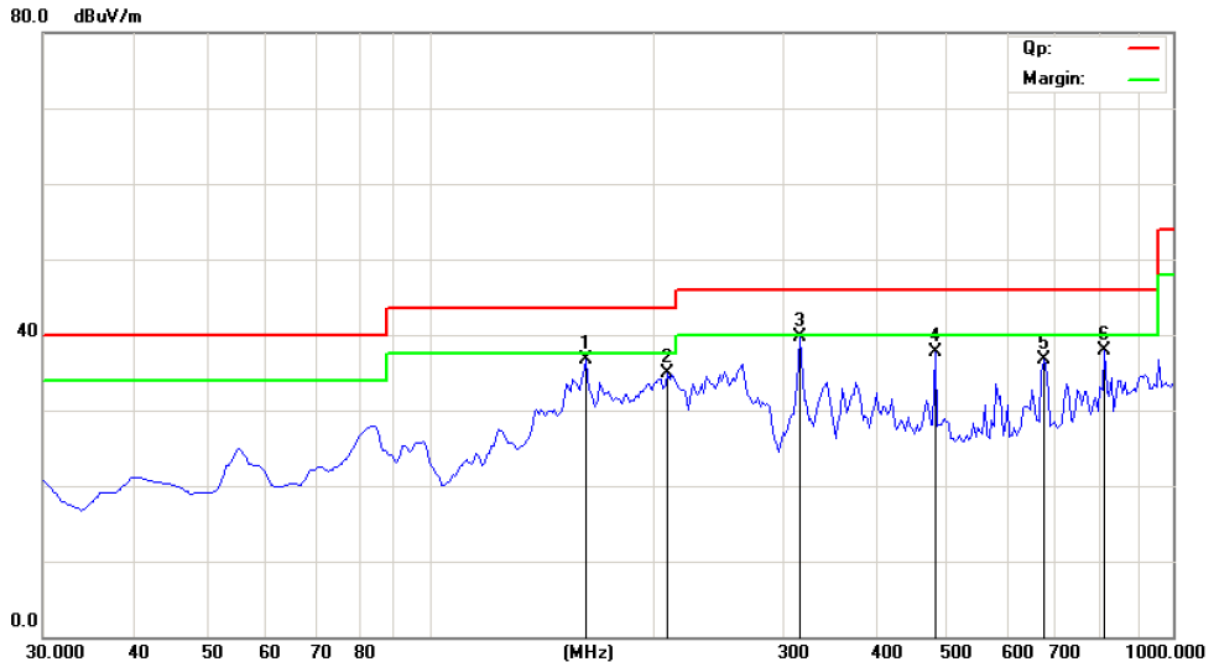
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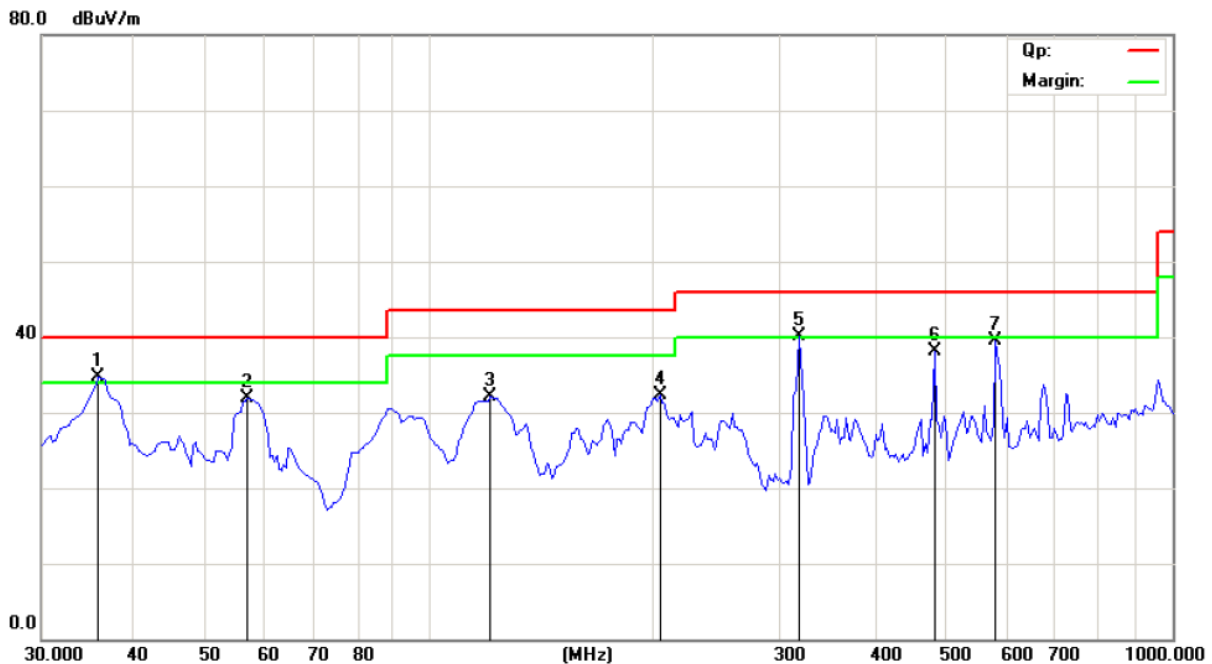
Test Figure:

H



Test Figure:

V



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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

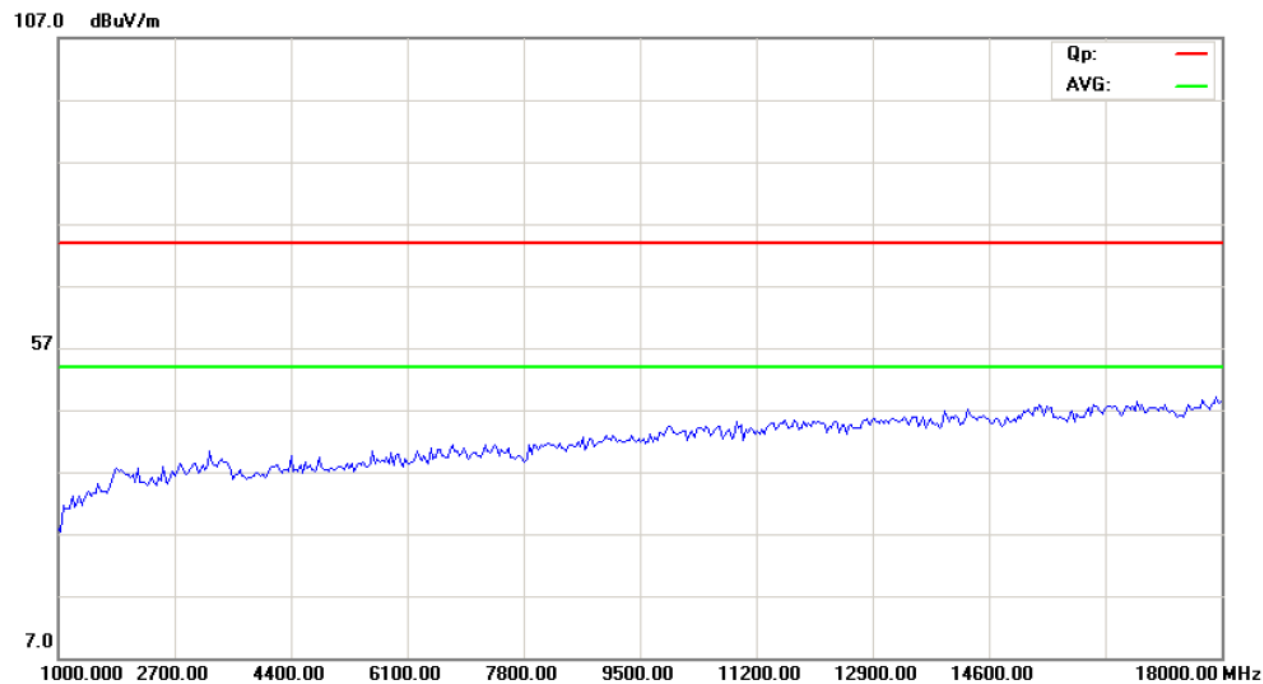
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play Memory and Running EMC test Software with HDMI output

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)
--	--	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

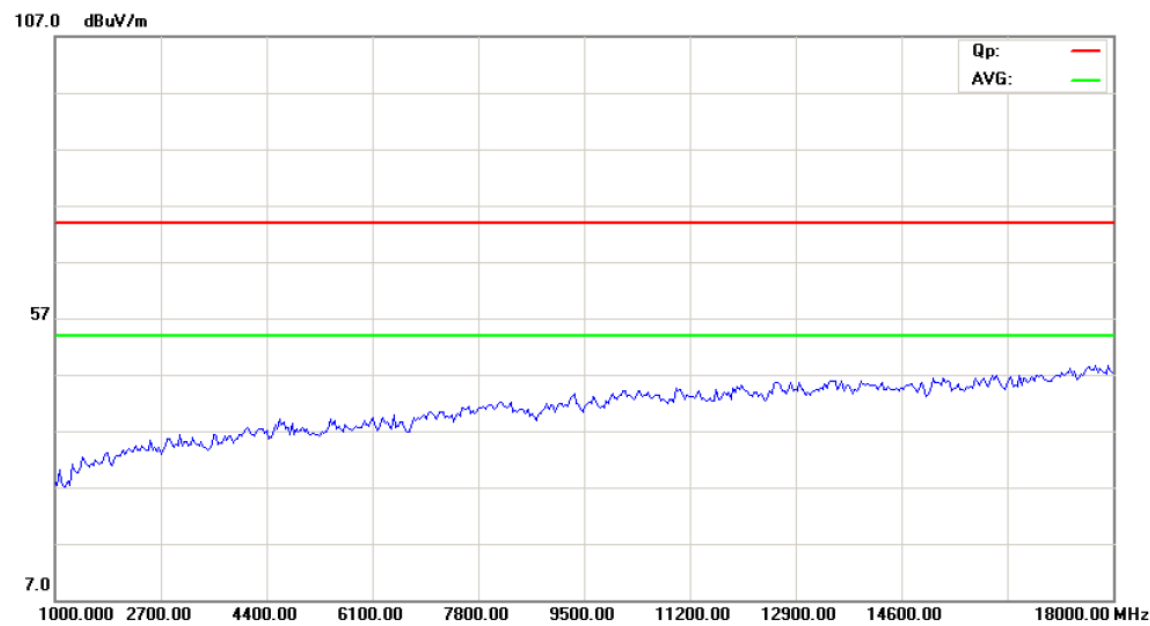
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play Memory and Running EMC test Software with HDMI output

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)
--	--	V	54(AV)
--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

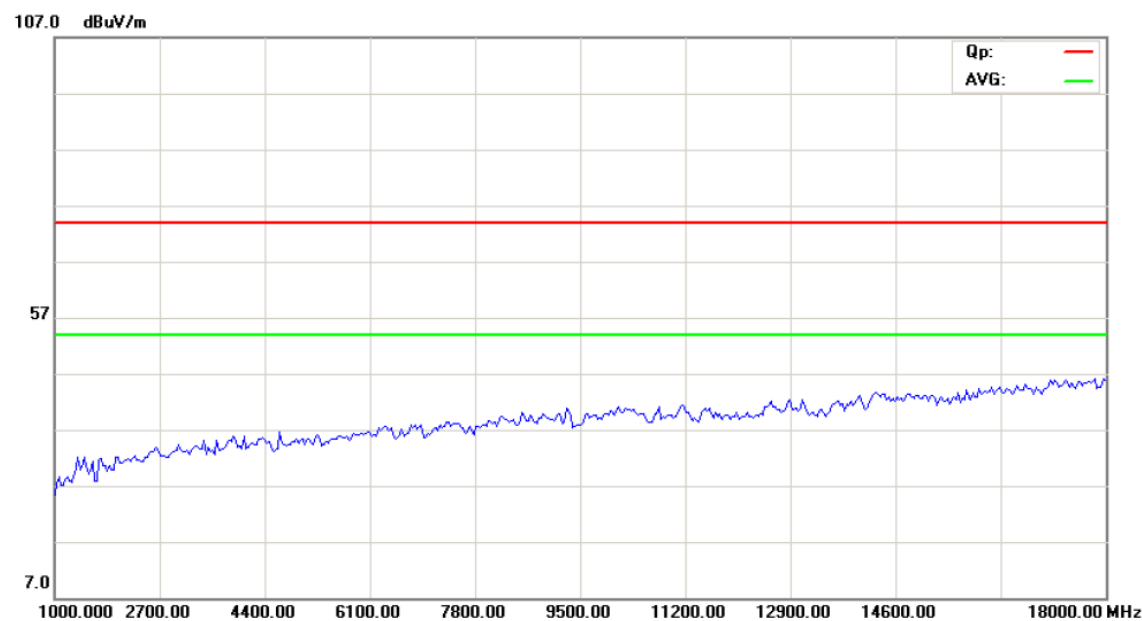
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play TF Card with HDMI output and Keep WIFI Receiving and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

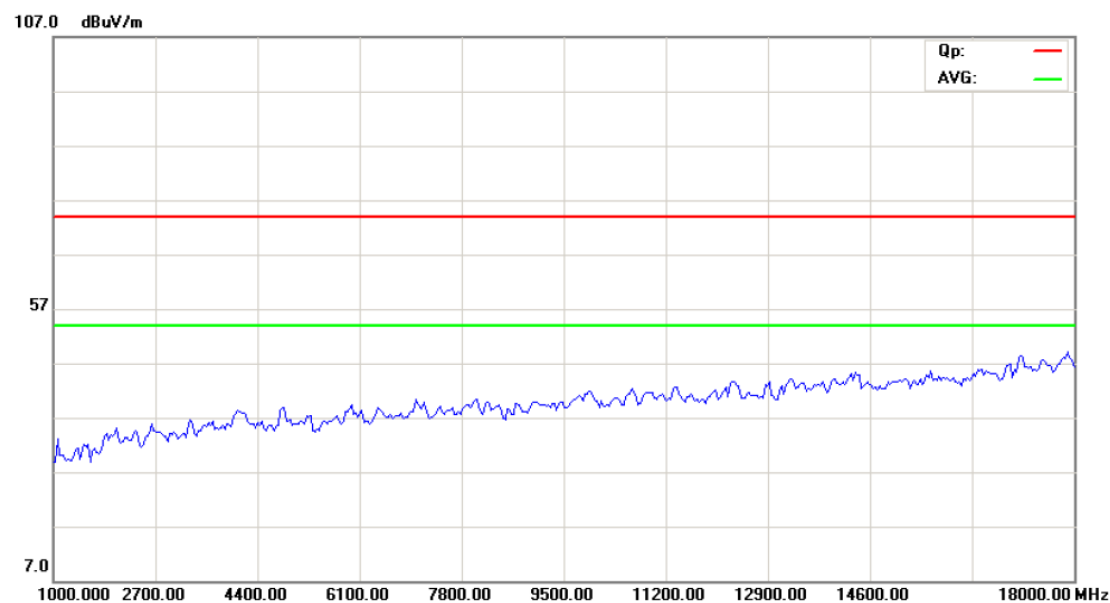
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play TF Card with HDMI output and Keep WIFI Receiving and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

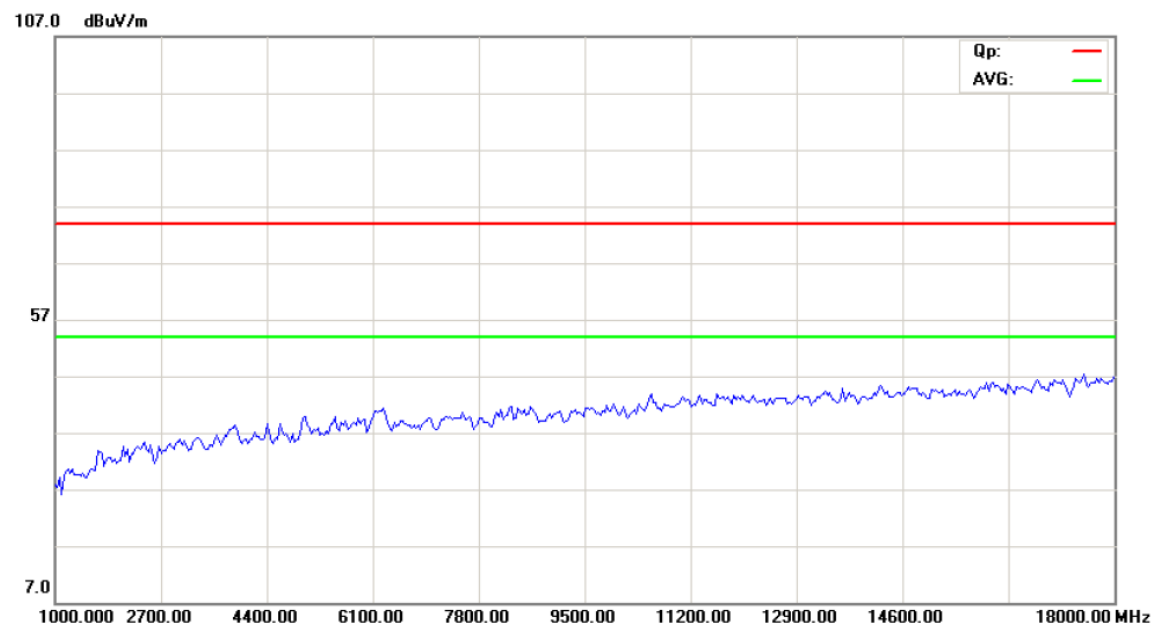
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

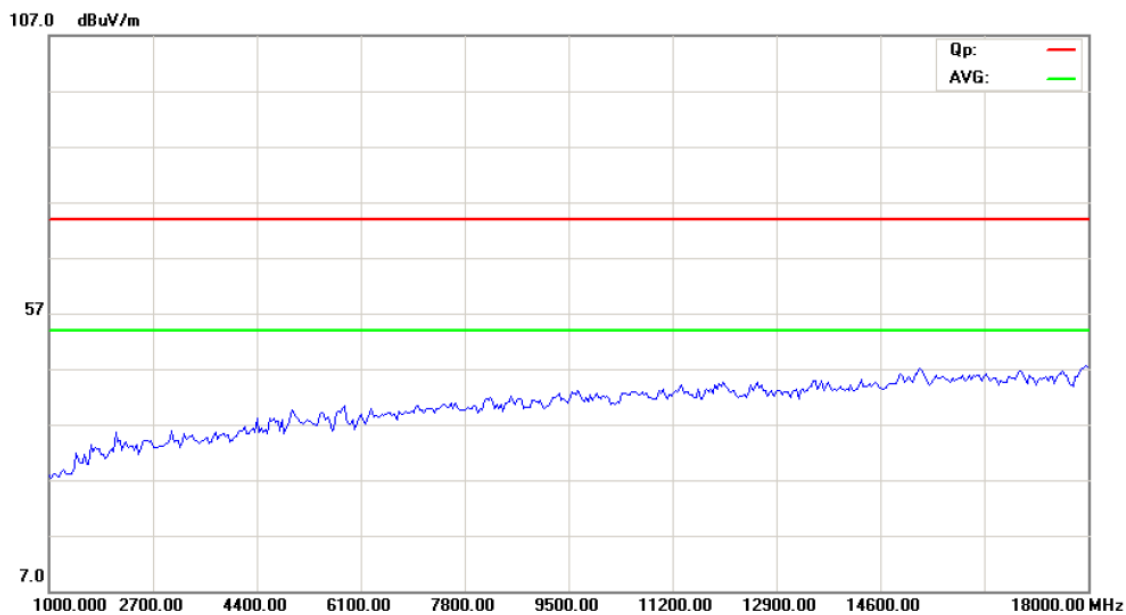
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

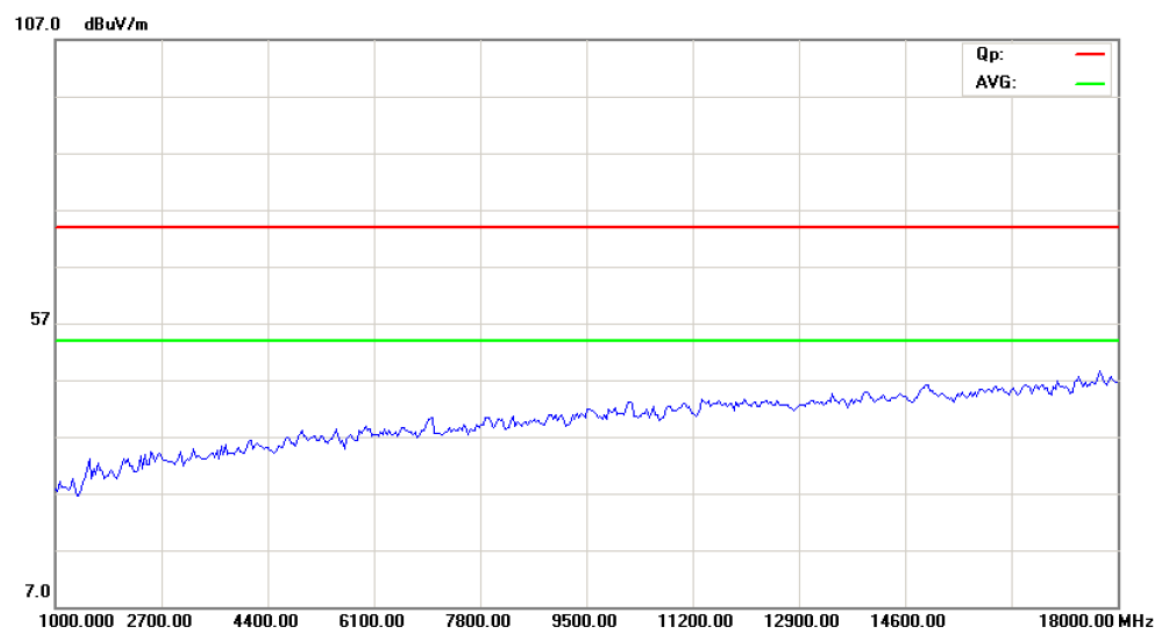
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB with HDMI output and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment

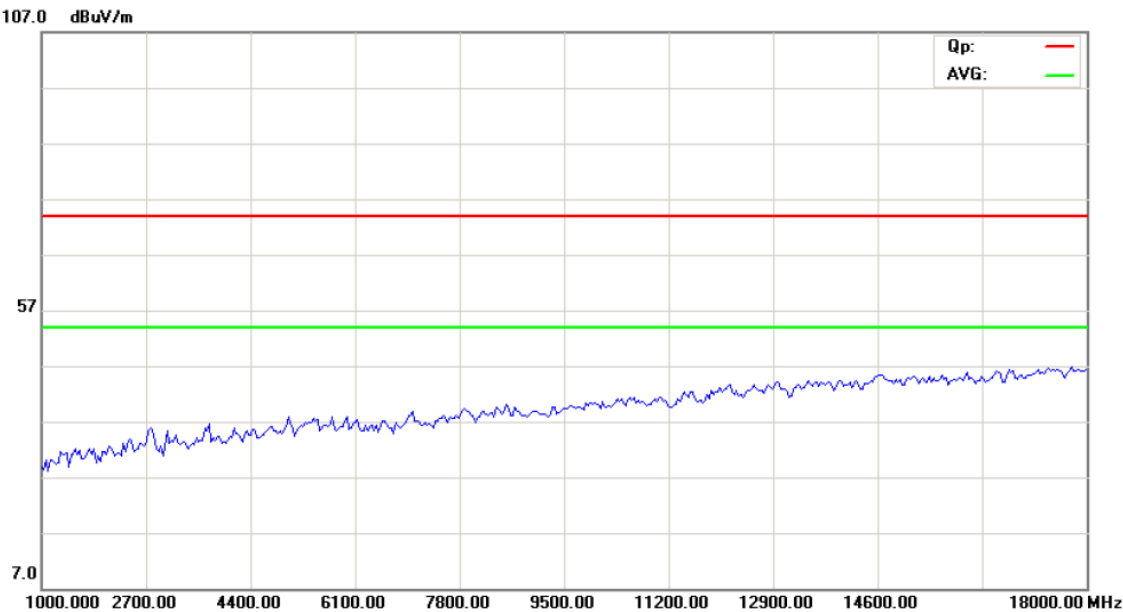
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB with HDMI output and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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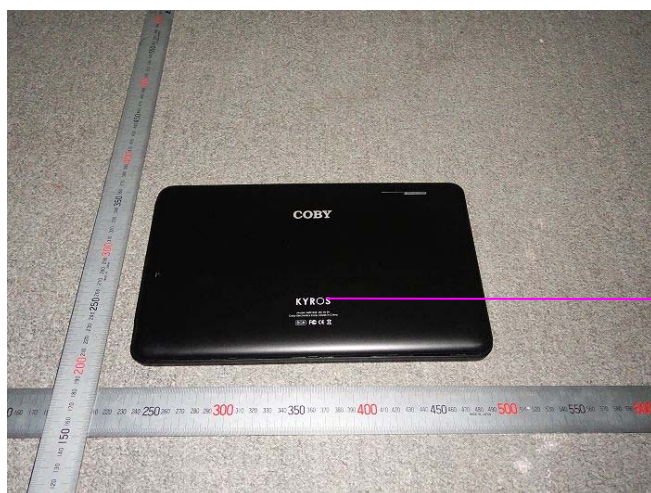
6.0 FCC ID Label

FCC ID: S7IMID1042

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



FCC ID Label Location

7.0 Photo of testing

7.1 Conducted test View--

Please refer to report FCC1205085-06

7.2 Radiated emission test view--

Please refer to report FCC1205085-06

-End of the report-

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