

FCC Test Report

Report No.: AGC01645180602FE05

FCC ID : 2AQJO-S12

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : WIFI smart socket

BRAND NAME : N/A

MODEL NAME : S01,S02,S03,S04,S05,S06,S07,S08,S09,S11,S12,S13,S14,
S15,S16,S17,S18,S19,S21,S22,S23S,24,S25,S26,S27,S28,
S29,S31,S32,S33,S34,S35,S36,S37,S38,S39,S41,S42,S43,
S44,S45,S46,S47,S48,S49,S51,S52,S53,S54,S55,S56,S57,
S58,S59,S61,S62,S63,S64,S65,S66,S67,S68,S69,S71,S72,
S73,S74,S75,S76,S77,S78,S79,S81,S82,S83,S84,S85,S86,
S87,S88,S89,S91,S92,S93,S94,S95,S96,S97,S98,S99

CLIENT : Shenzhen Sonida Digital Technology Co.,Ltd

DATE OF ISSUE : Aug. 27, 2018

STANDARD(S) : FCC Part 15.247

TEST PROCEDURE(S)

REPORT VERSION : V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 31, 2018	Invalid	Initial Release
V1.1	1 st	Aug. 27, 2018	Valid	Revise Report

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Sonida Digital Technology Co.,Ltd
Address	6F ,B Bldg, Zhengchangda Technology Park,Tangwei jian'an Rd,Fuyong St., Bao'an Dist., Shenzhen, China
Manufacturer	Shenzhen Sonida Digital Technology Co.,Ltd
Address	6F ,B Bldg, Zhengchangda Technology Park,Tangwei jian'an Rd,Fuyong St., Bao'an Dist., Shenzhen, China
Product Designation	WIFI smart socket
Brand Name	N/A
Test Model	S12
Serial Model	S01,S02,S03,S04,S05,S06,S07,S08,S09,S11 S13,S14, S15,S16,S17,S18,S19,S21,S22,S23S,24,S25,S26,S27, S28,S29,S31,S32,S33,S34,S35,S36,S37,S38,S39,S41, S42,S43,S44,S45,S46,S47,S48,S49,S51,S52,S53,S54, S55,S56,S57,S58,S59,S61,S62,S63,S64,S65,S66,S67, S68,S69,S71,S72,S73,S74,S75,S76,S77,S78,S79,S81, S82,S83,S84,S85,S86,S87,S88,S89,S91,S92,S93,S94, S95,S96,S97,S98,S99
Difference Description	All the same except the model name.
Date of test	June 25, 2018~July 31, 2018
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By

Nice.xie

Nice Xie(Xie xiaosong)

July 31, 2018

Reviewed By

Bart xie

Bart Xie(Xie Xiaobin)

Aug. 27, 2018

Approved By

Forrest lei

Forrest Lei(Lei Yonggang)
Authorized Officer

Aug. 27, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "WIFI smart socket". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz ~ 2.462GHz
Output Power	Please refer to FCC ID 2ANDL-TYWE2S and test report number: RSHA170915001-00A for test results
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 Channels (IEEE802.11b/g/n20)
Hardware Version	V10
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	3.0dBi
Power Supply	DC 3.3V

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2472MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
					20MHz	40MHz	20MHz	40MHz	800nsGI	
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AQJO-S12** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB

Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

Note:

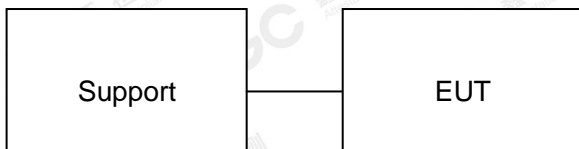
1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Support equipment

Item	Equipment	Model No.	ID or Specification	Remark
1	WIFI smart socket	S12	2AQJO-S12	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.207	Line Conduction Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 21, 2017	Sep. 20, 2018
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Sep. 21, 2017	Sep. 20, 2018
LOOP ANTENNA	A.H	SAS-562B	/	Mar.01, 2018	Feb.28, 2019

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7. RADIATED EMISSION

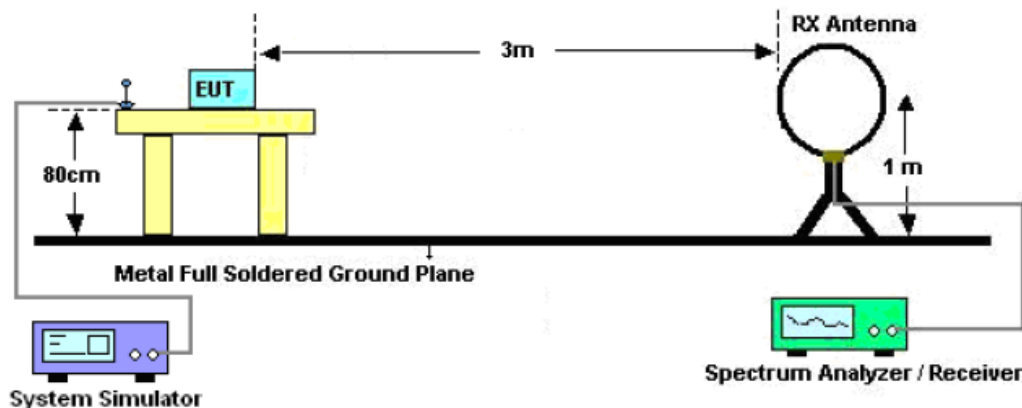
7.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

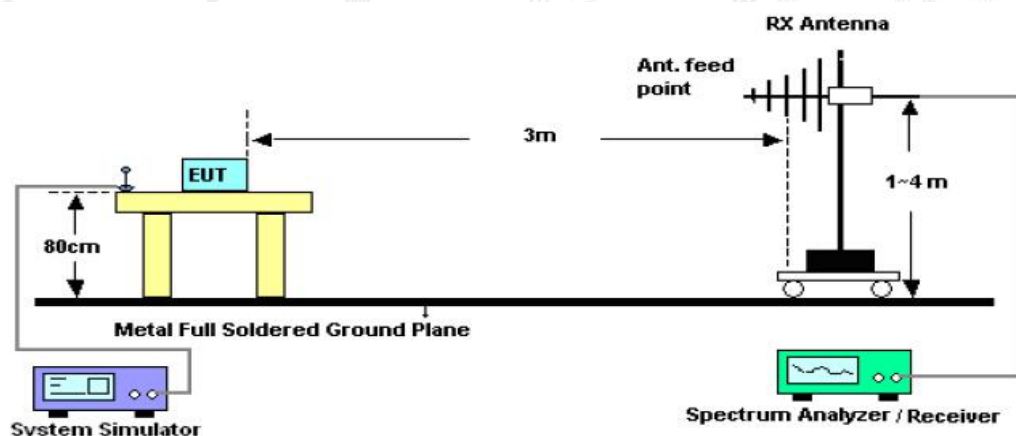
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7.2. TEST SETUP

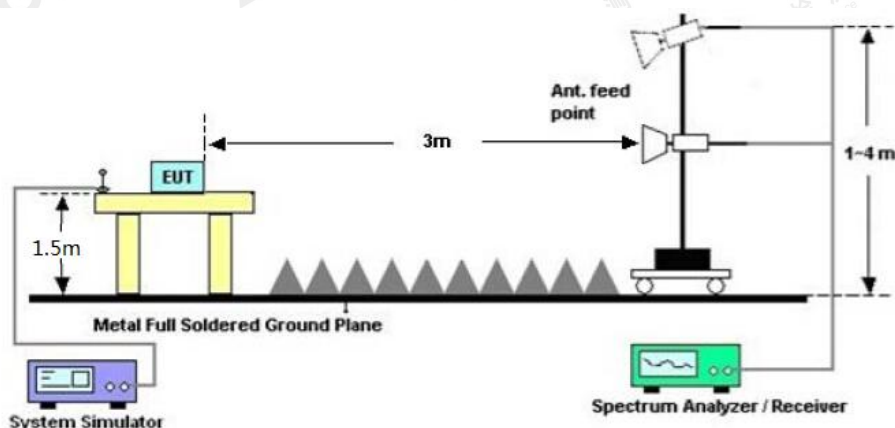
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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7.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission,
 The test records reported below are the worst result compared to other modes.

7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

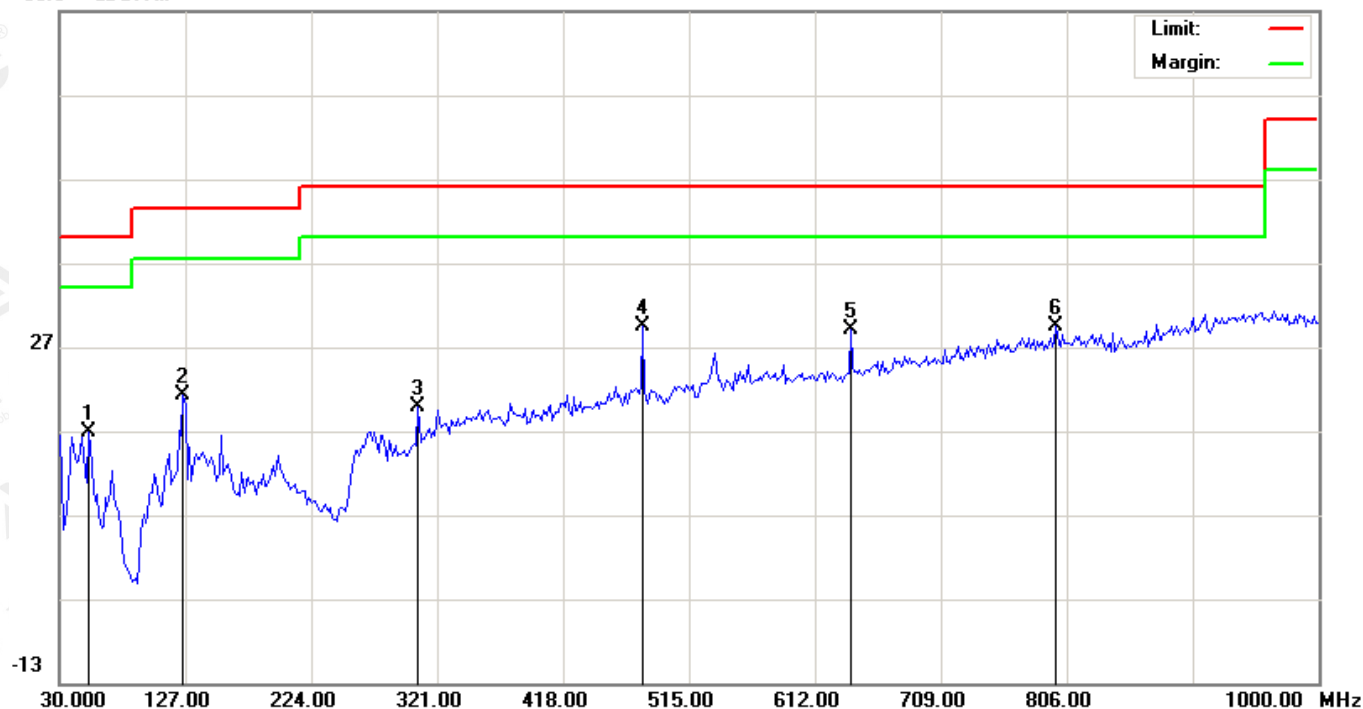
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

66.9 dBuV/m



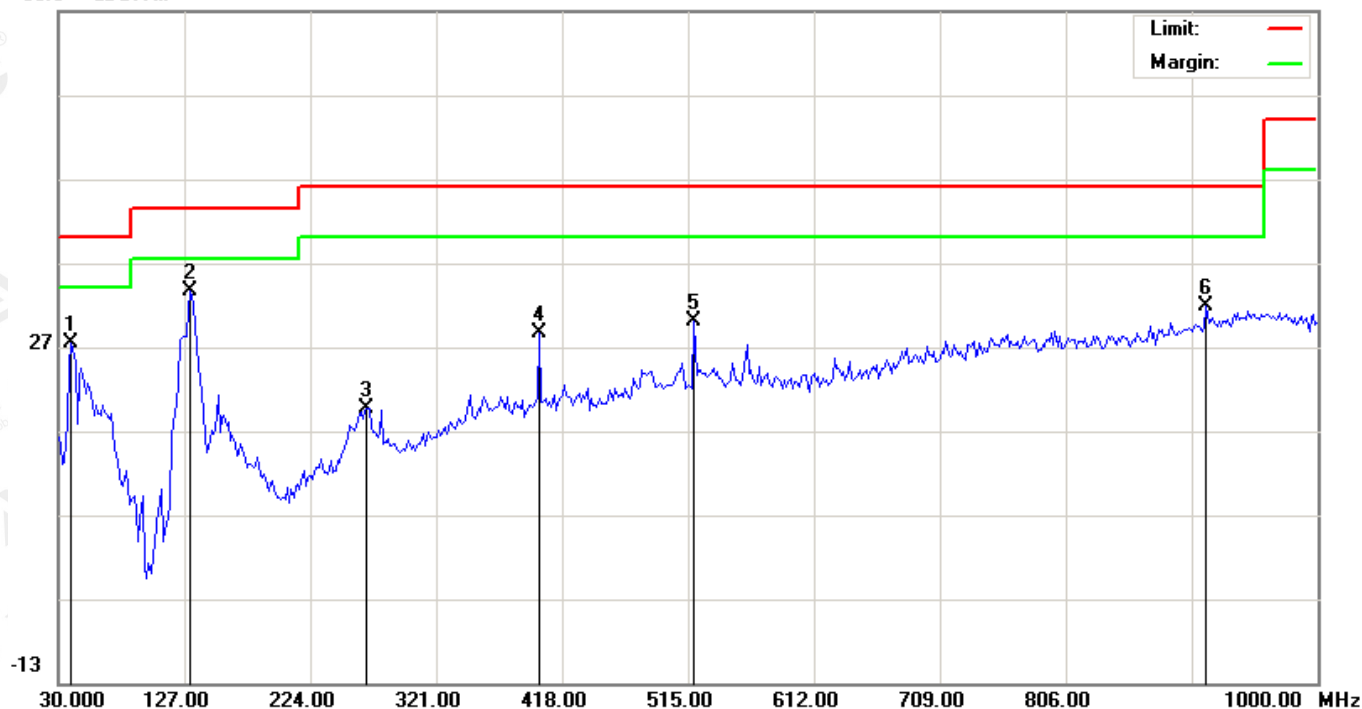
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		52.6333	8.37	8.41	16.78	40.00	-23.22	peak			
2		125.3833	12.84	8.37	21.21	43.50	-22.29	peak			
3		306.4500	3.91	15.84	19.75	46.00	-26.25	peak			
4	*	479.4333	8.55	20.91	29.46	46.00	-16.54	peak			
5		639.4833	5.13	23.82	28.95	46.00	-17.05	peak			
6		797.9167	2.03	27.29	29.32	46.00	-16.68	peak			

RESULT: PASS

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EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

66.9 dBuV/m



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		39.7000	18.89	8.51	27.40	40.00	-12.60	peak			
2	*	131.8500	21.86	11.80	33.66	43.50	-9.84	peak			
3		267.6500	5.16	14.43	19.59	46.00	-26.41	peak			
4		400.2167	9.58	19.08	28.66	46.00	-17.34	peak			
5		519.8500	8.28	21.67	29.95	46.00	-16.05	peak			
6		914.3167	2.71	29.01	31.72	46.00	-14.28	peak			

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.063	48.66	3.72	52.38	74	-21.62	peak
4824.076	42.24	3.72	45.96	54	-8.04	AVG
7236.115	43.81	8.15	51.96	74	-22.04	peak
7236.098	38.73	8.15	46.88	54	-7.12	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.039	47.81	3.72	51.53	74	-22.47	peak
4824.090	41.59	3.72	45.31	54	-8.69	AVG
7236.085	43.77	8.15	51.92	74	-22.08	peak
7236.112	37.63	8.15	45.78	54	-8.22	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.032	49.62	3.75	53.37	74	-20.63	peak
4874.116	45.47	3.75	49.22	54	-4.78	AVG
7311.035	43.83	8.16	51.99	74	-22.01	peak
7311.040	38.79	8.16	46.95	54	-7.05	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.079	48.47	3.75	52.22	74	-21.78	peak
4874.098	43.39	3.75	47.14	54	-6.86	AVG
7311.026	44.57	8.16	52.73	74	-21.27	peak
7311.074	38.72	8.16	46.88	54	-7.12	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.076	49.58	3.81	53.39	74	-20.61	peak
4924.053	45.86	3.81	49.67	54	-4.33	AVG
7386.057	44.95	8.19	53.14	74	-20.86	peak
7386.060	38.63	8.19	46.82	54	-7.18	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WIFI smart socket	Model Name	S12
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.032	48.57	3.81	52.38	74	-21.62	peak
4924.035	42.26	3.81	46.07	54	-7.93	AVG
7386.063	43.13	8.19	51.32	74	-22.68	peak
7386.056	38.49	8.19	46.68	54	-7.32	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

Other emissions from 1GHz to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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8. FCC LINE CONDUCTED EMISSION TEST

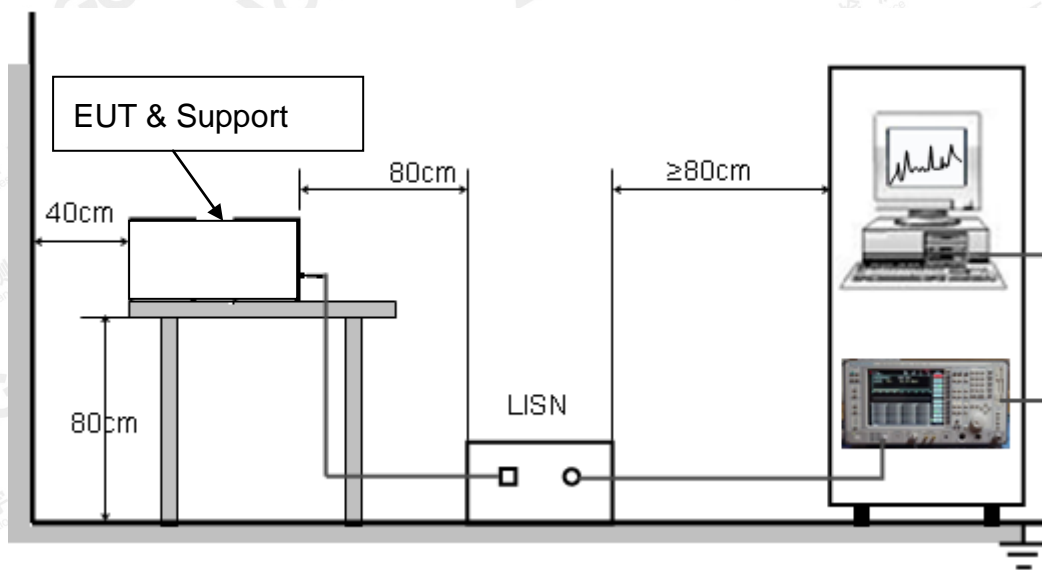
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

8.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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8.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

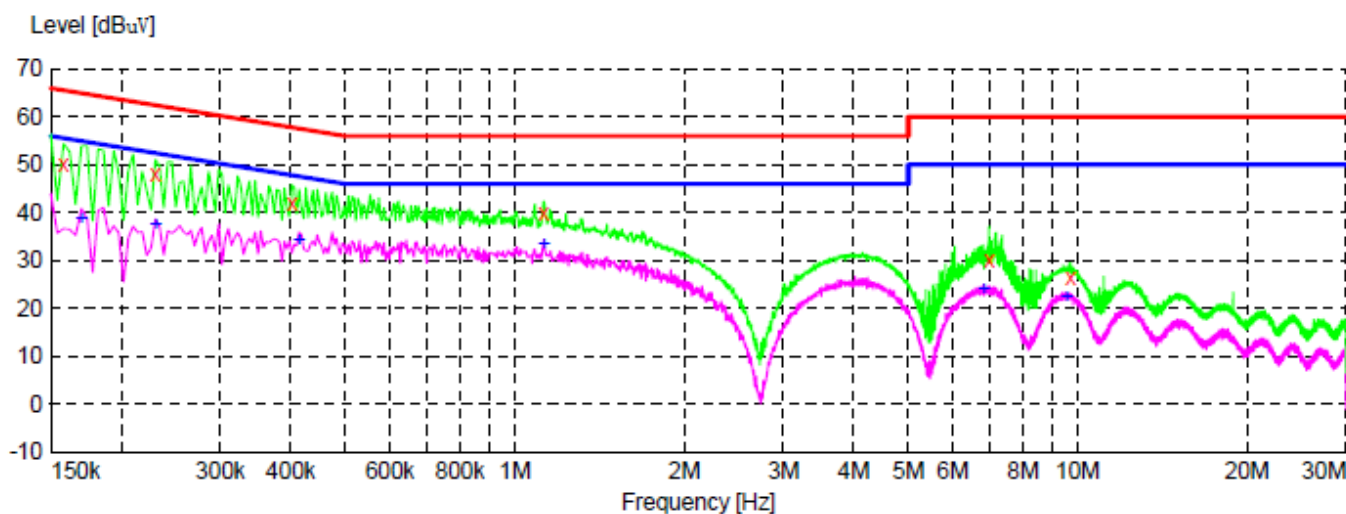
8.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.158000	50.20	10.0	66	15.4	QP	L1
0.230000	48.10	10.1	62	14.3	QP	L1
0.402000	41.80	10.0	58	16.0	QP	L1
1.126000	39.70	10.1	56	16.3	QP	L1
6.954000	30.20	9.8	60	29.8	QP	L1
9.718000	26.40	10.5	60	33.6	QP	L1

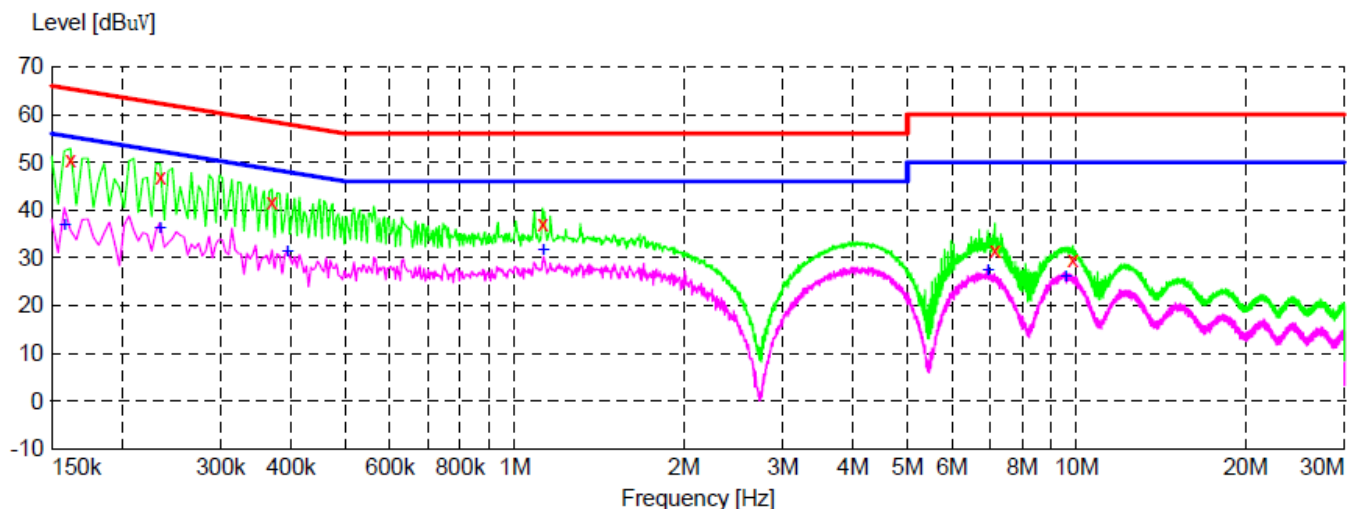
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.170000	38.70	10.0	55	16.3	AV	L1
0.230000	37.40	10.1	52	15.0	AV	L1
0.414000	34.20	10.0	48	13.4	AV	L1
1.126000	33.30	10.1	46	12.7	AV	L1
6.794000	24.10	9.8	50	25.9	AV	L1
9.558000	22.50	10.4	50	27.5	AV	L1

RESULT: PASS

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.162000	50.60	10.0	65	14.8	QP	N
0.234000	47.10	10.1	62	15.2	QP	N
0.370000	41.60	10.0	59	16.9	QP	N
1.122000	37.20	10.1	56	18.8	QP	N
7.162000	31.60	9.8	60	28.4	QP	N
9.858000	29.50	10.5	60	30.5	QP	N

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.158000	36.90	10.0	56	18.7	AV	N
0.234000	36.10	10.1	52	16.2	AV	N
0.394000	31.30	10.0	48	16.7	AV	N
1.126000	31.40	10.1	46	14.6	AV	N
6.954000	27.20	9.8	50	22.8	AV	N
9.566000	25.90	10.4	50	24.1	AV	N

RESULT: PASS

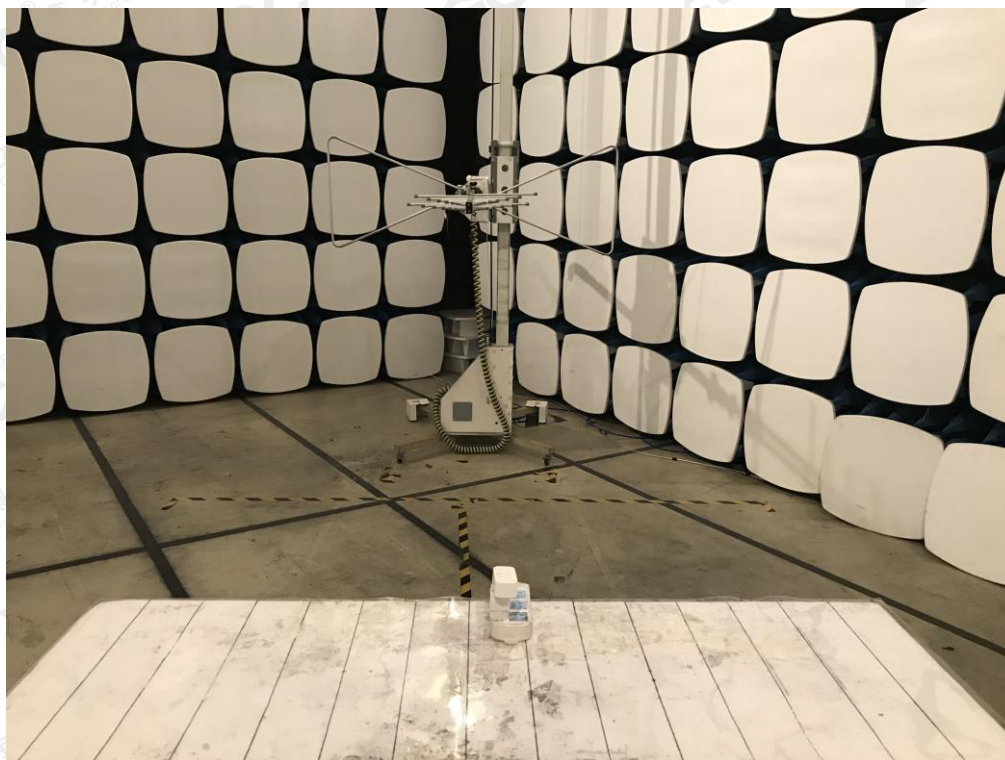
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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FCC RADIATED EMISSION-ABOVE 1G TEST SETUP



----END OF REPORT----

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