

FCC Test Report

Part 15 subpart C

Client Information:

Applicant: DONGGUAN ZHONGSHENG METAL ELECTRICAL CO.,LTD.

Applicant add.: No.21 TianJingFo Industrial Zone, Xin Tang Village, Da Ling Shan Town,

Dong guan, Guang dong

Product Information:

EUT Name: 2.1 Channel Stereo Sound System

16IN-32-E,ZHS-32-A,ZHS-32-B,ZHS-32-C,ZHS-32-D,ZHS-32-E,ZHS-32-F,

ZHS-32-G,ZHS-32-H,ZHS-32-I,ZHS-26-A,ZHS-26-B,ZHS-26-C,ZHS-28-C,

Model No.: ZHS-28-D,ZHS-28-E,ZHS-30-A,ZHS-30-B,ZHS-30-C,ZHS-30-D,ZHS-30-E,

ZHS-30-F

Brand Name: FEBO FLAME

FCC ID: 2AILS16IN-32-E

Standards: FCC PART 15 Subpart C: 2016 section 15.247

Test procedure used: ANSI C63.10-2013

Prepared By:

ATS Electronic Technology Co., Ltd.

Add.: 3/F, Building A, No. 1 Hedong Three Road, Jinxia Communityt, Changan Town,

DongGuan City, GuangDong, P.R.China

Date of Receipt: Oct. 31, 2016 Date of Test: Nov. 01~04, 2016

Date of Issue: Nov. 04, 2016 Test Result: Pass

This device described above has been tested by ATS Electronic Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: Vera Wang Approved by:



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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

Test	Test Requirement	Standard Paragraph	Result
Antenna Requirement	FCC Part 15 C:2016	Section 15.247(c)	PASS
Conduction Emissions	FCC Part 15 C:2016	Section 15.207(a)	PASS
Radiated Emissions	FCC Part 15 C:2016	Section 15.247(d)	PASS
Carrier Frequencies Separated	FCC Part 15 C:2016	Section 15.247(a)(1)	PASS
Hopping Channel Number	FCC Part 15 C:2016	Section 15.247(a)(1) (iii)	PASS
Dwell Time	FCC Part 15 C:2016	Section 15.247(a)(1) (iii)	PASS
Maximum Peak Output Power	FCC Part 15 C:2016	Section 15.247(b)	PASS
Band edge	FCC Part 15 C:2016	Section 15.247(d)	PASS
Conducted Spurious Emissions	FCC Part 15 C:2016	Section 15.247(d)	PASS



2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Levels have estimated based on ANSI C63.10:2013, the maximum value of the uncertainty as below

No.	Item	Uncertainty
1	Conducted Emission Test	1.20dB
2	Radiated Emission Test	3.30dB

2.3 Test Location

All tests were performed at:

Dongguan Yaxu (AiT) Technology Limited No.22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan, Guangdong, China Tel.: +86.769.82020499 Fax.: +86.769.82020495

The FCC Registration No. of Dongguan Yaxu (AiT) Technology Limited is 248337.



3 General Information

3.1 General Description of EUT

Manufacturer:	DONGGUAN ZHONGSHENG METAL ELECTRICAL CO.,LTD			
Manufacturer Address:	No.21 TianJingFo Industrial Zone, Xin Tang Village, Da Ling Shan Town, Dong guan, Guang dong			
EUT Name:	2.1 Channel Stereo Sound System			
Model No:	16IN-32-E			
Derivative model No.:	ZHS-32-A,ZHS-32-B,ZHS-32-C,ZHS-32-D,ZHS-32-E,ZHS-32-F,ZHS-32-G, ZHS-32-H,ZHS-32-I,ZHS-26-A,ZHS-26-B,ZHS-26-C,ZHS-28-C,ZHS-28-D, ZHS-28-E,ZHS-30-A,ZHS-30-B,ZHS-30-C,ZHS-30-D,ZHS-30-E,ZHS-30-F			
Brand Name:	FEBO FLAME			
Operation frequency:	2402 MHz to 2480 MHz			
NUMBER OF CHANNEL:	79			
Modulation Technology:	GFSK, π/4-DQPSK, 8DPSK(1/2/3Mbps)			
Bluetooth version:	Bluetooth 4.2			
H/W No.:	V 02			
S/W No.:	V 4.2.10			
Antenna Type:	Integral Antenna			
Antenna Gain:	Maximum 1.2 dBi			
Power Supply Range:	AC 120V/60Hz			
Power Supply:	AC 120V/60Hz			
Power Cord:	1.5 m x two-wire unscreened AC cable			
	1Mbps: -0.33dBm			
Output power (max):	3Mbps: -1.67dBm			
Model description:	According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name. Therefore only one model 16IN-32-E was tested in this report.			
Note:				
	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

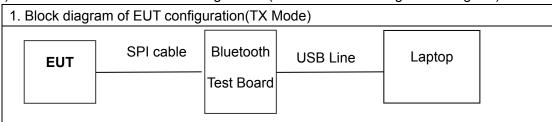


Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



3.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)



Note:

- 1.Connect the EUT as above block diagram of configuration, Run the software, set the transmit serial port/power/channel/packet type/data type/hopping or not,send configuration,than EUT enter the TX mode.
- 2.Set EUT in continuous transmission signal mode.
- 3.Using the laptop and the transform board to control the fixed transmitting frequency and other test mode. After finishing the test setting, the notebook and the transform board will be removed during measurements.
- (2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over	Number of	Location in
which device operates	frequencies	the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	2	1 near top, 1 near middle and
More than 10 MHz	3	1 near bottom

(4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.

(5) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results(1Mbps/3Mbps) are recorded in this report.

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3.3 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Lap top	ASUS	N/A	X401A	X16-96072	N/A	N/A
2	Bluetooth test board	N/A	N/A	N/A	N/A	N/A	N/A

3.4 EUT Peripheral List

No.	Equipment	Manufacturer	EMC	Model No.	Serial No.	Power cord	signal cable
1	WIFI WITH ELECTRIC FIREPLAC E	DONGGUAN ZHONGSHE NG METAL ELECTRICAL CO.,LTD.	FCC ID:2AILSZH S-32-D	ZHS-32-D	N/A	N/A	2.0 m x three-wire unscreened AC cable
3	Signal cable	N/A	N/A	N/A	N/A	N/A	1.0 m/ screened
4	AUX cable	N/A	N/A	N/A	N/A	N/A	1.4 m/ unscreened



4 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2016.06.29	2017.06.28
2	EMI Measuring Receiver	Schaffner	SCR3501	235	2016.06.29	2017.06.28
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2016.06.29	2017.06.28
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2016.06.29	2017.06.28
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2016.06.29	2017.06.28
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2016.06.29	2017.06.28
7	SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170367	2016.06.29	2017.06.28
8	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.29	2017.06.28
9	EMI Test Receiver	R&S	ESCI	100124	2016.06.29	2017.06.28
10	LISN	Kyoritsu	KNW-242	8-837-4	2016.06.29	2017.06.28
11	LISN	Kyoritsu	KNW-407	8-1789-3	2016.06.29	2017.06.28
12	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.29	2017.06.28
13	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.29	2017.06.28
14	EMI Test Receiver	Rohde & Schwarz	ESIB26	100394	2016.06.29	2017.06.28
15	Radiated Cable 1# (30MHz-1GHz)	FUJIKURA	5D-2W	01	2016.06.29	2017.06.28
16	Radiated Cable 2# (1GHz -25GHz)	FUJIKURA	10D2W	02	2016.06.29	2017.06.28
17	Conducted Cable 1#(9KHz-30MHz)	FUJIKURA	1D-2W	01	2016.06.29	2017.06.28
18	SMA Antenna connector (Impedance:50OHM, cable loss:0.5dBm)	Dosin	Dosin-SMA	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



5 Test Result

5.1 Antenna Requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.1.2 EUT Antenna

The antenna is Integral Antenna and no consideration of replacement. Antenna gain is Maximum 1.2dBi from 2.4GHz to 2.5GHz.

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5.2 Conduction Emissions Measurement

5.2.1 Applied procedures / Limit

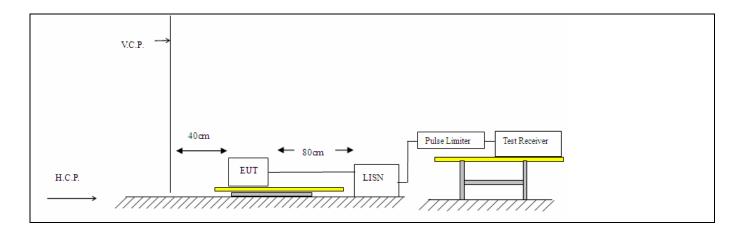
Frequency of Emission (MHz)	Conducte	d Limit (dΒμV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

5.2.2 Test procedure

EUT was placed upon a wooden test table 0.1m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

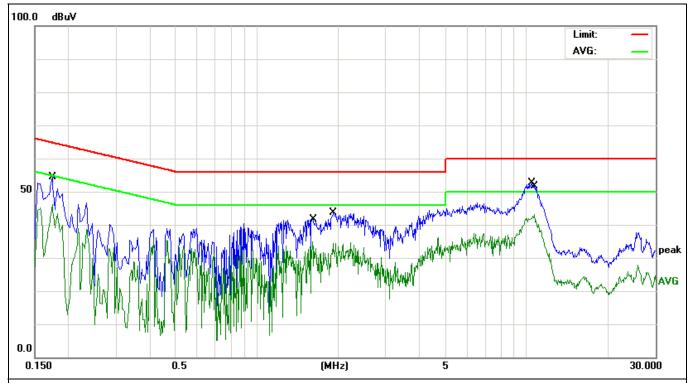
5.2.3 Test setup





5.2.4 Test results

EUT:	2.1 Channel Stereo Sound System	Model Name. :	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2016-11-03
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Line
Test Voltage :	AC 120V/60Hz		

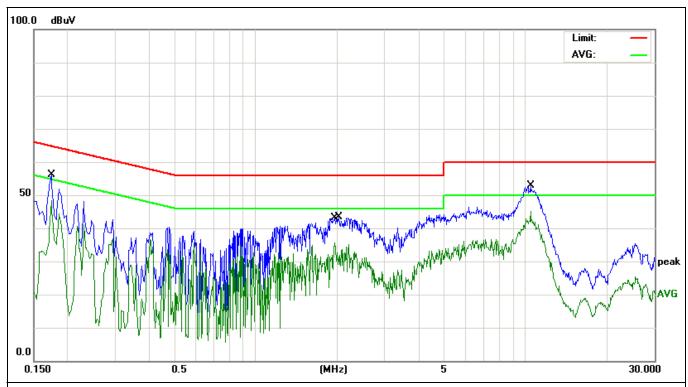


Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector
1	0.1740	51.89	2.44	54.33	64.76	-10.43	QP
2	0.1740	43.61	2.44	46.05	54.76	-8.71	AVG
3	1.6019	24.94	9.93	34.87	46.00	-11.13	AVG
4	1.9219	33.76	9.96	43.72	56.00	-12.28	QP
5	10.4059	42.52	10.19	52.71	60.00	-7.29	QP
6 *	10.6979	33.05	10.20	43.25	50.00	-6.75	AVG



EUT:	2.1 Channel Stereo Sound System	Model Name. :	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2016-11-03
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Neutral
Test Voltage :	AC 120V/60Hz		



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector
1	0.1740	53.68	2.44	56.12	64.76	-8.64	QP
2	0.1740	45.87	2.44	48.31	54.76	-6.45	AVG
3	1.9619	25.76	9.96	35.72	46.00	-10.28	AVG
4	2.0259	33.42	9.96	43.38	56.00	-12.62	QP
5	10.4060	42.69	10.19	52.88	60.00	-7.12	QP
6 *	10.4060	34.93	10.19	45.12	50.00	-4.88	AVG



5.3 Radiated Emissions Measurement

5.3.1 Applied procedures / Limit

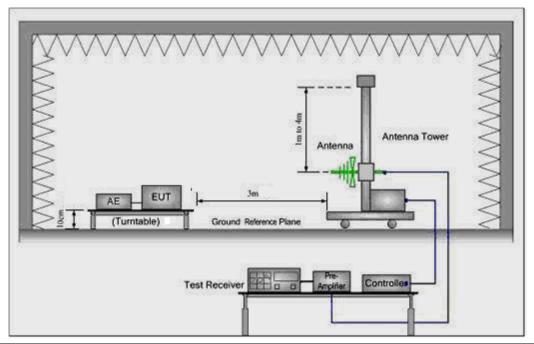
15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

	Field Stre	ength	Measurement
Frequency of Emission (MHz)	μV/m	dBμV/m	Distance (meters)
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

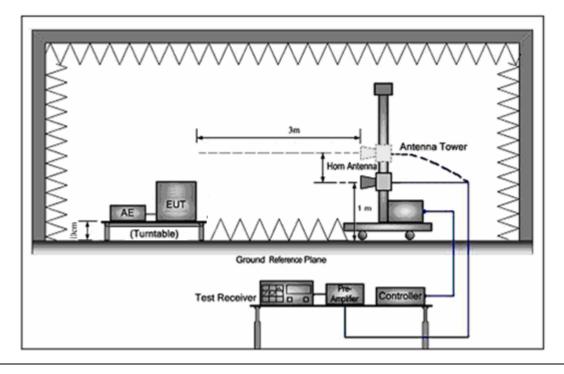
5.3.2 Test setup



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



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5.3.3 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table and operating in the mode as mentioned above. For emissions testing at or below 1 GHz, the table height shall be 10 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 0.1 m. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested. The worst case emissions were reported.

For measurement at frequency above 1GHz

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.

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5.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E			
Temperature:	25 ℃	Test Data	2016-11-03			
Pressure:	1005 hPa	Relative Humidity:	60%			
Test Mode:	TX	Test Voltage:	AC 120V/60Hz			
Measurement Distance	3 m	Frenqucy Range	9KHz to 30MHz			
RBW/VBW	KHz~150KHz/RB 200Hz for QP, 150KHz~30MHz/RB 9KHz for QP					

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



Radiated Emissions Test Data Below 1GHz

IEUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E			
Temperature:	25 ℃	Test Data	2016-11-03			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	TX (1Mbps) CH00 (worst case)	Test Voltage:	AC 120V/60Hz			
Measurement Distance	3 m	Frenqucy Range	30MHz to 1GHz			
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.					

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(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
48.5016	52.20	-18.43	33.77	40.00	-6.23	QP
57.3922	54.90	-19.80	35.10	40.00	-4.90	QP
76.5121	53.12	-19.17	33.95	40.00	-6.05	QP
97.7982	44.53	-15.43	29.10	43.50	-14.40	QP
129.9225	41.53	-14.93	26.60	43.50	-16.90	QP
827.4933	31.60	0.80	32.40	46.00	-13.60	QP

(b) Antenna polarization: vertical

2) Tuttorina polarización vorteai								
Frequency	Reading	Correct	Measure	Limit	Over	Detector Type		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)			
	(dBuV)	(dB)	(dBuV/m)					
42.4508	33.37	-14.57	18.80	40.00	-21.20	QP		
59.6492	42.74	-18.44	24.30	40.00	-15.70	QP		
190.4050	36.12	-14.35	21.77	43.50	-21.73	QP		
292.0581	33.21	-10.22	22.99	46.00	-23.01	QP		
638.3686	31.37	-1.97	29.40	46.00	-16.60	QP		
1000.0000	29.41	5.10	34.51	54.00	-19.49	QP		

Note:

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss-Pre-amplifier



Radiated Emissions Test Data Above 1GHz

EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E		
Temperature:	25 ℃	Test Data	2016-11-03		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode:	1Mbps	Test Voltage:	AC 120V/60Hz		
Measurement Distance	3 m	Frenqucy Range	1GHz to 25GHz		
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.				
KDVV/ V DVV	non-restricted band: 100KHz/300K	Hz for Peak.			

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(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.000	53.47	5.06	58.53	74.00	-15.47	peak
4804.000	41.11	5.06	46.17	54.00	-7.83	AVG
7206.000	47.35	7.03	54.38	74.00	-19.62	peak
7206.000	35.46	7.03	42.49	54.00	-11.51	AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре		
	(dBuV)	(dB)	(dBuV/m)					
4804.000	51.55	5.06	56.61	74.00	-17.39	peak		
4804.000	40.39	5.06	45.45	54.00	-8.55	AVG		
7206.000	46.85	7.03	53.88	74.00	-20.12	peak		
7206.000	35.27	7.03	42.30	54.00	-11.70	AVG		

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss-Pre-amplifier

Lowest channel: 2402 MHz

Data rate: 1Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.000	52.85	5.14	57.99	74.00	-16.01	peak
4882.000	41.38	5.14	46.52	54.00	-7.48	AVG
7323.000	46.64	7.54	54.18	74.00	-19.82	peak
7323.000	35.22	7.54	42.76	54.00	-11.24	AVG

(b) Antenna polarization: Vertical

7., F							
Frequency	Reading	Correct	Measure	Limit	Over	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB)	(dBuV/m)				
4882.000	51.74	5.14	56.88	74.00	-17.12	peak	
4882.000	40.66	5.14	45.80	54.00	-8.20	AVG	
7323.000	45.51	7.54	53.05	74.00	-20.95	peak	
7323.000	34.53	7.54	42.07	54.00	-11.93	AVG	

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss-Pre-amplifier

Middle Channel: 2441 MHz

Data rate: 1Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB) (dBuV/m)					
4960.000	52.28	5.22	57.50	74.00	-16.50	peak	
4960.000	41.46	5.22	46.68	54.00	-7.32	AVG	
7440.000	45.33	8.06	53.39	74.00	-20.61	peak	
7440.000	34.67	8.06	42.73	54.00	-11.27	AVG	

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB)	(dBuV/m)				
4960.000	52.37	5.22	57.59	74.00	-16.41	peak	
4960.000	39.56	5.22	44.78	54.00	-9.22	AVG	
7440.000	46.18	8.06	54.24	74.00	-19.76	peak	
7440.000	34.26	8.06	42.32	54.00	-11.68	AVG	

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss-Pre-amplifier

Highest Channel: 2480 MHz

Data rate: 1Mbps



IEUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E			
Temperature:	25 ℃	Test Data	2016-11-03			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode:	3Mbps	Test Voltage:	AC 120V/60Hz			
Measurement Distance	3 m	Frenqucy Range	1GHz to 25GHz			
IRBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average. non-restricted band: 100KHz/300KHz for Peak.					

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(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure Limit O		Over	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB)	(dBuV/m)				
4804.000	52.35	5.06	57.41	74.00	-16.59	peak	
4804.000	40.44	5.06	45.50	54.00	-8.50	AVG	
7206.000	46.18	7.03	53.21	74.00	-20.79	peak	
7206.000	35.30	7.03	42.33	54.00	-11.67	AVG	

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	rect Measure Limit Over		Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)				
4804.000	52.51	5.06	57.57	74.00	-16.43	peak
4804.000	41.37	5.06	46.43	54.00	-7.57	AVG
7206.000	46.71	7.03	7.03 53.74 74.00 -20.26		peak	
7206.000	35.40	7.03	42.43	42.43 54.00 -11.57		AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss—Pre-amplifier

Lowest Channel: 2402 MHz

Data rate: 3Mbps

(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	rrect Measure Limit Over		Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.000	53.08	5.14	58.22	74.00	-15.78	peak
4882.000	40.11	5.14	45.25	54.00	-8.75	AVG
7323.000	45.29	7.54	52.83	74.00	.00 -21.17 peak	
7323.000	33.45	7.54	40.99	54.00	-13.01 AVG	

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(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit Over		Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)				
4882.000	52.35	5.14	57.49	74.00	-16.51	peak
4882.000	41.00	5.14	46.14	54.00	-7.86	AVG
7323.000	46.24	7.54	53.78 74.00 -20.22		peak	
7323.000	34.74	7.54	42.28 54.00 -11.72		AVG	

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss—Pre-amplifier

Middle Channel: 2441 MHz

Data rate: 3Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure Limit Over		Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)				
4960.000	51.66	5.22	56.88	74.00	-17.12	peak
4960.000	40.28	5.22	45.50	54.00	-8.50	AVG
7440.000	45.19	8.06	53.25 74.00 -20.75		peak	
7440.000	34.27	8.06	42.33	54.00 -11.67 A		AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB)	(dBuV/m)				
4960.000	51.64	5.22	56.86	74.00	-17.14	PEAK	
4960.000	40.20	5.22	45.42	54.00	-8.58	AVERAGE	
7440.000	45.13	8.06	53.19	74.00	-20.81	PEAK	
7440.000	34.42	8.06	42.48	54.00	-11.52	AVERAGE	

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss—Pre-amplifier

Highest channel: 2480 MHz

Data rate: 3Mbps



5.3.5 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E
Temperature:	25 ℃	Test Data	2016-11-03
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	TX 1Mbps\ 3Mbps	Test Voltage:	AC 120V/60Hz
RBW/VBW	1MHz/3MHz for Peak, 1MHz/10	Hz for Average.	
Note:	The transmitter was setup to strength was measured at 23. The transmitter was setup to strength was measured.	10-2390 MHz.	
	2. The transmitter was setup to	_	est channel. Then the field
	strength was measured at 248		
	3. The data of 2390MHz and 248	83.5MHz was the wors	t.

Test	Ant.Pol.	Eroa	Rea	ding	Ant/CF	А	ct	Lir	mit
Mode H/V	Freq. (MHz)	Peak (dBuv)	AV (dBuv)	CF(dB)	Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)	
	V	2390	43.42	32.25	-5.79	37.63	26.46	74.00	54.00
Data rate	Н	2390	42.56	31.59	-5.79	36.77	25.80	74.00	54.00
1Mbps	V	2483.5	43.50	30.63	-4.98	38.52	25.65	74.00	54.00
	Н	2483.5	42.61	31.26	-4.98	37.63	26.28	74.00	54.00
	V	2390	44.39	32.37	-5.79	38.60	26.58	74.00	54.00
Data rate	Н	2390	43.88	32.81	-5.79	38.09	27.02	74.00	54.00
3Mbps	V	2483.5	42.38	31.54	-4.98	37.40	26.56	74.00	54.00
	Н	2483.5	43.41	30.14	-4.98	38.43	25.16	74.00	54.00

Remark:	
(1)	Radiated emissions measured in frequency range above 1000MHz were made with an instrument
	using Peak detector mode.
(2)	During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB
	cone of radiation BW of the used antenna
(3)	Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.



5.4 BANDWIDTH TEST

5.4.1 Applied procedures / Limit

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

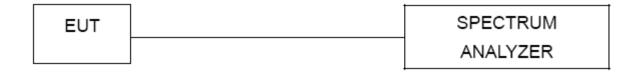
5.4.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak Trace = max hold

5.4.3 Deviation from standard

No deviation.

5.4.4 Test setup



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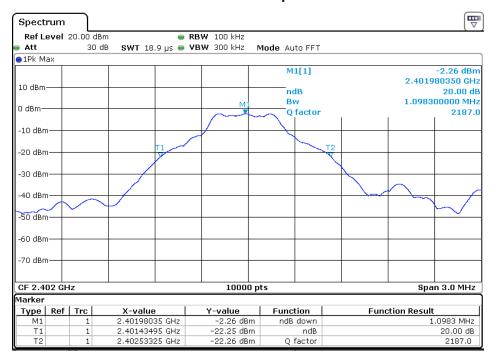
5.4.5 Test results

EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	AC 120V/60Hz
Test Mode :	TX 1Mbps/ 3Mbps		

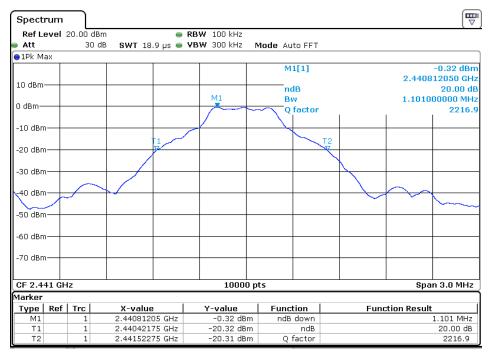
Chai	nnel	Channel frenqucy (MHz)	20dB bandwidth (KHz)	Limit (KHz)	Conclusion
1Mbps	Low	2402	1098.3	N/A	Pass
	Middle	2441	1101.0	N/A	Pass
	High	2480	1098.0	N/A	Pass
3Mbps	Low	2402	1347.3	N/A	Pass
	Middle	2441	1330.8	N/A	Pass
	High	2480	1337.4	N/A	Pass



CH00-1Mbps

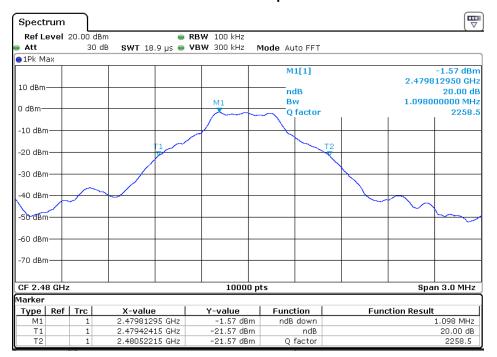


CH 39-1Mbps

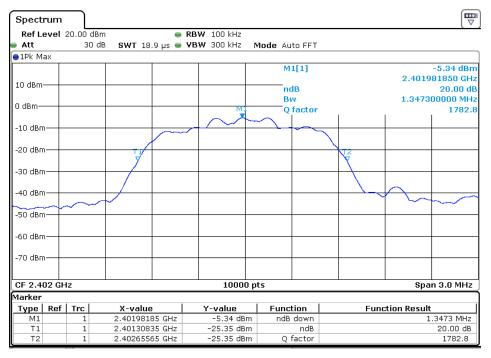




CH 78-1Mbps

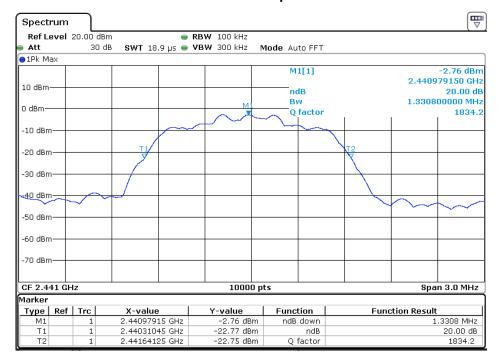


CH 00-3Mbps

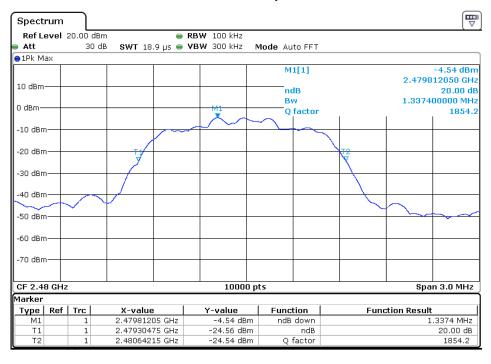




CH 39-3Mbps



CH 78-3Mbps





5.5 Carrier Frequencies Separated

5.5.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.5.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as Span = wide enough to capture the peaks of two adjacent channels, Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span, Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation.

5.5.3 Deviation from standard

No deviation.

5.5.4 Test setup

EUT	SPECTRUM
	ANALYZER



5.5.5 Test results

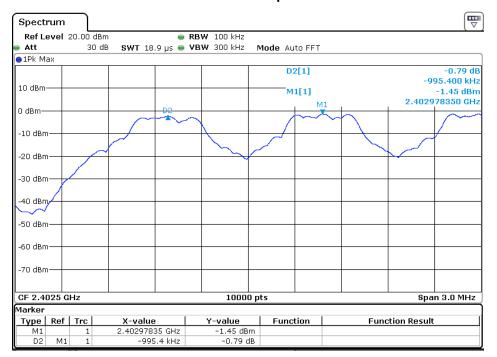
IEUT:	2.1 Channel Stereo Sound System	Model Name :	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	AC 120V/60Hz
Test Mode:	TX 1Mbps/ 3Mbps		

Channel		Channel frenqucy (MHz)	Channel Separation (MHz)	Conclusion
	Low	2402	995.4	Pass
1Mbps	Middle	2441	998.1	Pass
	Highest	2480	998.4	Pass
	Low	2402	999.6	Pass
3Mbps	Middle	2441	997.8	Pass
	Highest	2480	996.3	Pass

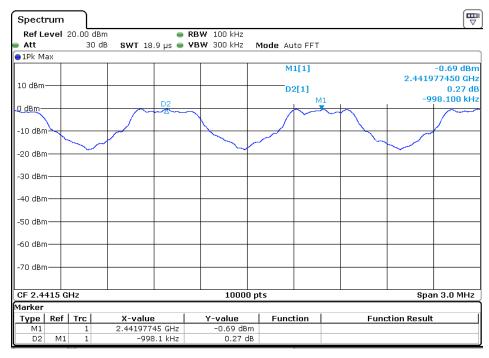
Ch. Separation >2/3(20dB bandwidth)



CH 00-1Mbps

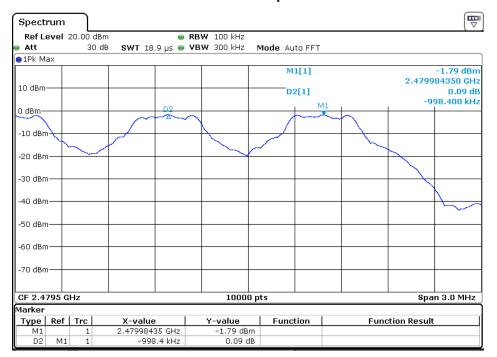


CH 39-1Mbps

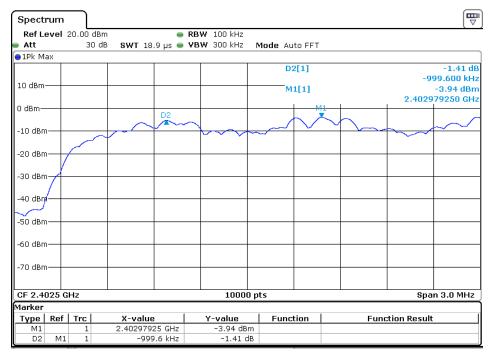




CH 78-1Mbps

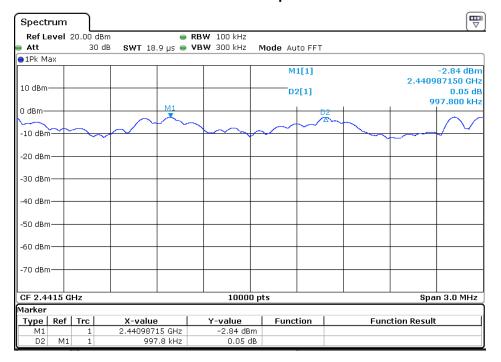


CH 00-3Mbps

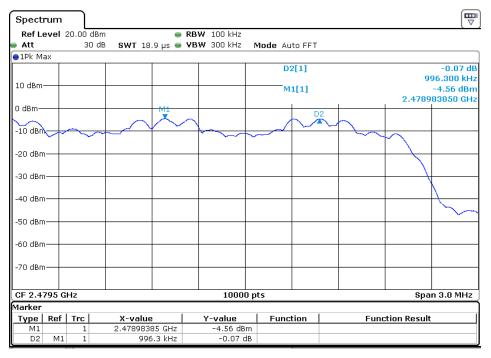




CH 39-3Mbps



CH 78-3Mbps



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5.6 Hopping Channel Number

5.6.1 Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.6.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as Span = the frequency band of operation, RBW ≥ 1% of the span, VBW ≥ RBW Sweep = auto Detector function = peak, Trace = max hold
- (2) The EUT should be have its hopping function enabled. Maxhold and record hopping channels It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

5.6.3 Deviation from standard

No deviation.

5.6.4 Test setup

EUT	SPECTRUM
	ANALYZER

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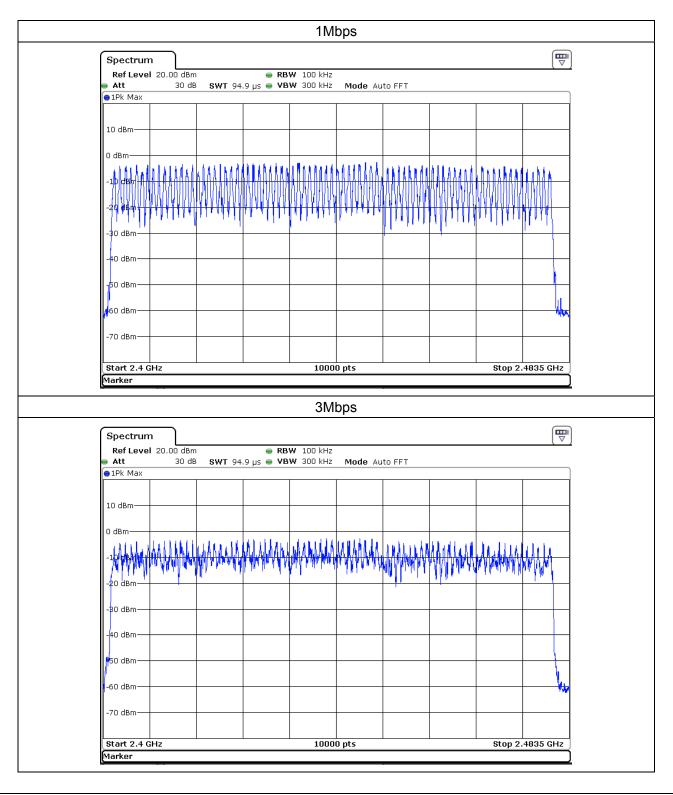


5.6.5 Test result

Hopping Channel Number result			
Operating Mode: 1Mbps/ 3Mbps Mode Test date:2016-11-03			
Result Limit		t	Conclusion
79	15		Pass



IEUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	AC 120V/60Hz
Test Mode:	TX 1Mbps/ 3Mbps		





5.7 Dwell time

5.7.1 Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.7.2 Test procedure

- (1) Place the EUT on the table in the chamber or connect the antenna port of the EUT to spectrum analyzer and set it in transmitting mode.
- (2) Set RBW of spectrum analyzer to 1MHz, VBW ≥ RBW
- (3) Use a video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for DH5, DH3 and DH1 packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) A Period Time = 79*0.4=31.6 S

DH1 Time Slot: Reading * (1600/2)*31.6/79

DH3 Time Slot: Reading * (1600/4)*31.6/79

DH5 Time Slot: Reading * (1600/6)*31.6/79

5.7.3 Deviation from standard

No deviation.

5.7.4 Test setup



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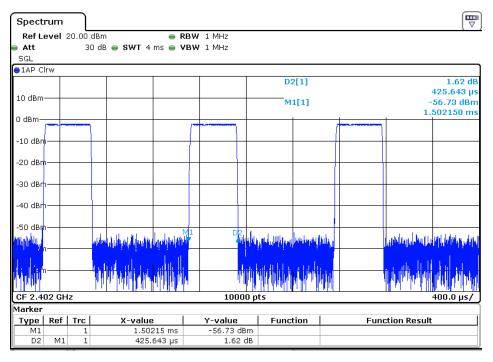
Report No.: ATS161101721 41 / 79



5.7.5 Test result

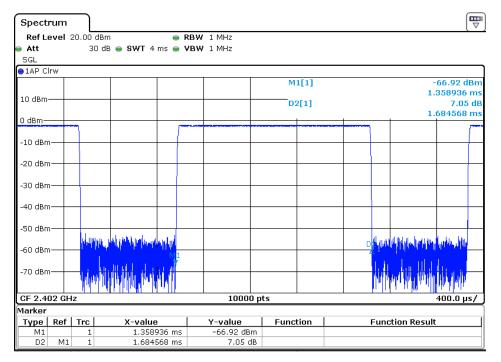
EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	AC 120V/60Hz
Test Mode:	CH00-DH1/DH3/DH5 (1Mbps Mode)		

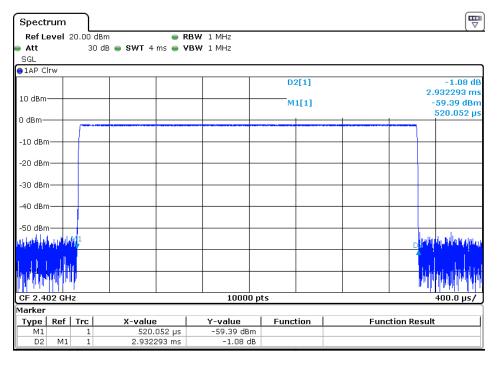
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (s)
DH1	2402 MHz	0.426	0.133	0.4000
DH3	2402 MHz	1.685	0.269	0.4000
DH5	2402 MHz	2.932	0.310	0.4000





CH 00- DH3

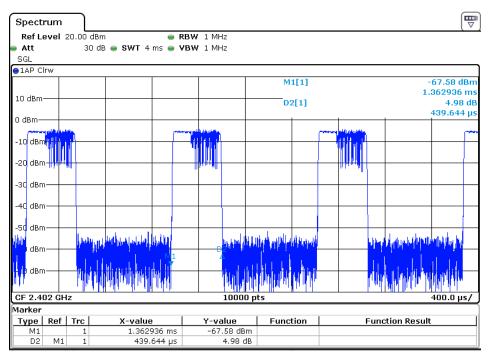






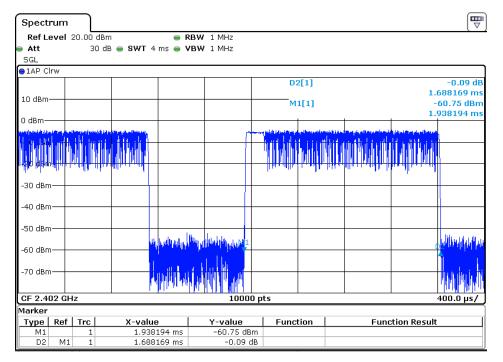
EUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	AC 120V/60Hz
Test Mode:	CH00-3DH1/3DH3/3DH5 (3Mbps Mode)		

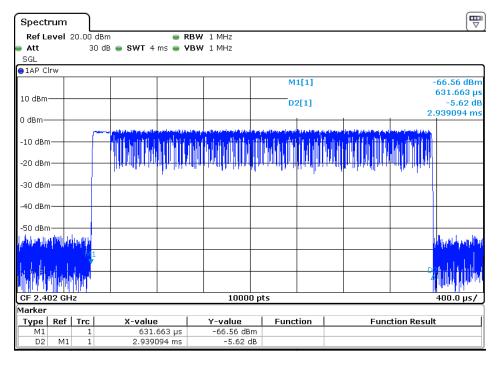
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (s)
3DH1	2402 MHz	0.440	0.133	0.4000
3DH3	2402 MHz	1.688	0.265	0.4000
3DH5	2402 MHz	2.939	0.310	0.4000





CH 00- DH3







5.8 Maximum Peak Output Power

5.8.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

15.247(b) (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.8.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW, Sweep = auto Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. Also shall be performed at different modes of operation.

5.8.3 Deviation from standard

No deviation.

5.8.4 Test setup

EUT	SPECTRUM
	ANALYZER

DongGuan City, GuangDong, P.R.China



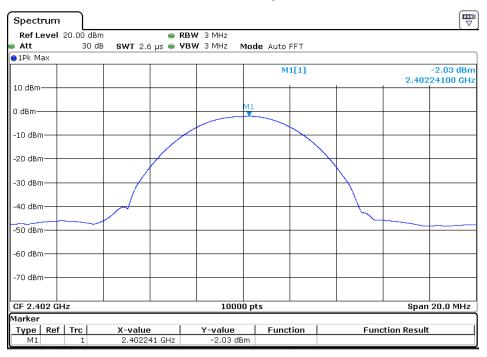
5.8.5 **Test results**

IEUT:	2.1 Channel Stereo Sound System	Model Name:	16IN-32-E	
Temperature:	26 ℃	Relative Humidity:	60%	
Pressure:	1010 hPa	Test Voltage:	AC 120V/60Hz	
Test Mode :	ode : TX			
Note: All the data rates have be tested and the worst-case as the table below.				

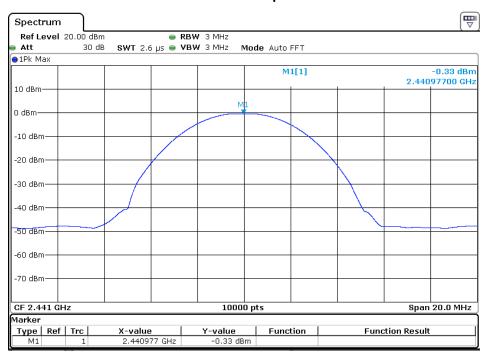
Test Mode	Frequency	Peak Output Power (dBm)	Limit (dBm)	Result
	2402 MHz	-2.03	21	Pass
Data rate 1Mbps	2441 MHz	-0.33	21	Pass
	2480 MHz	-1.48	21	Pass
	2402 MHz	-3.74	21	Pass
Data rate 3Mbps	2441 MHz	-1.67	21	Pass
	2480 MHz	-3.25	21	Pass
Cable loss = 1.0 dBm				



CH 00-1Mbps

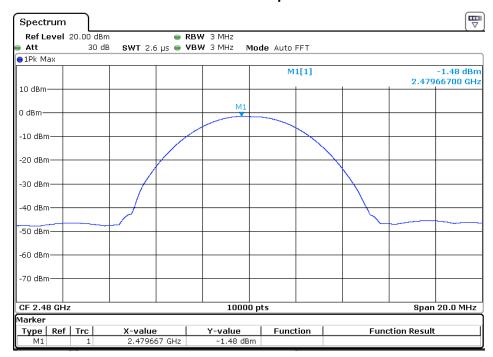


CH 39-1Mbps

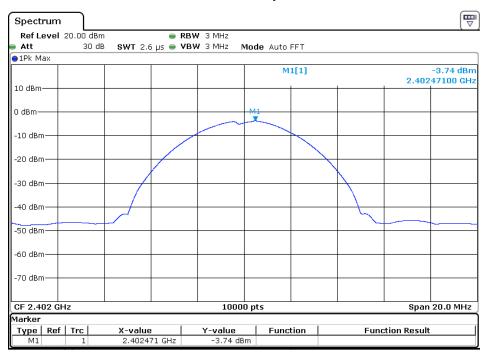




CH 78-1Mbps

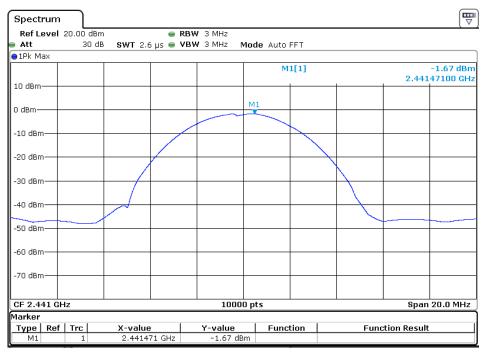


CH 00-3Mbps

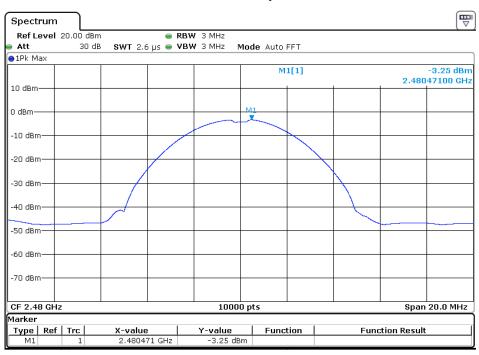




CH 39-3Mbps



CH 78-3Mbps



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5.9 Band edge

5.9.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.9.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

5.9.3 Deviation from standard

No deviation.

5.9.4 Test setup

EUT	SPECTRUM
	ANALYZER

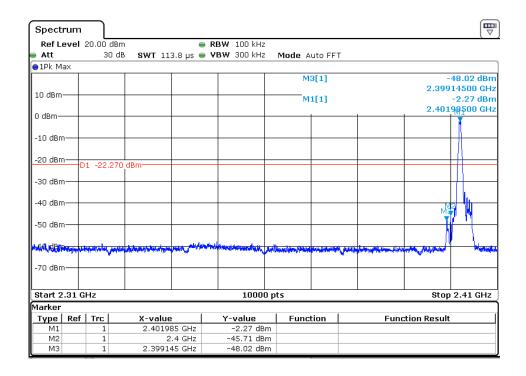
DongGuan City, GuangDong, P.R.China



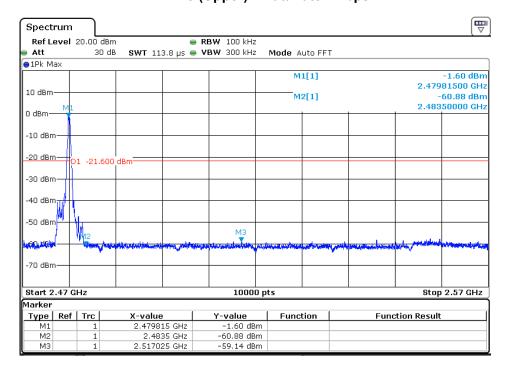
5.9.5 Test results

CH00 (Lower) Data rate 1Mbps

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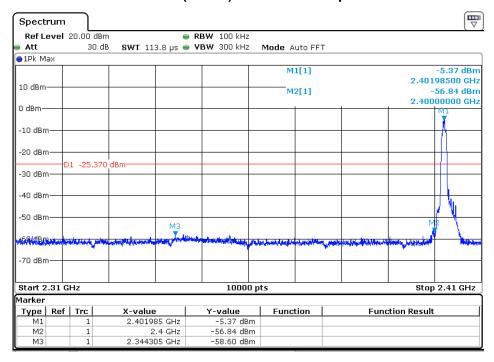


CH 78 (Upper) Data rate 1Mbps

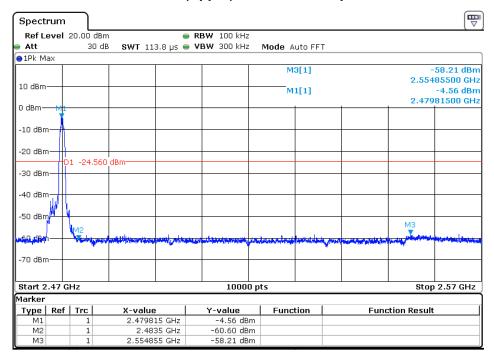




CH00 (Lower) Data rate 3Mbps

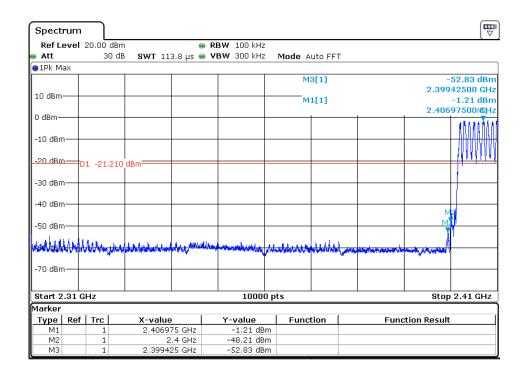


CH 78 (Upper) Data rate 3Mbps

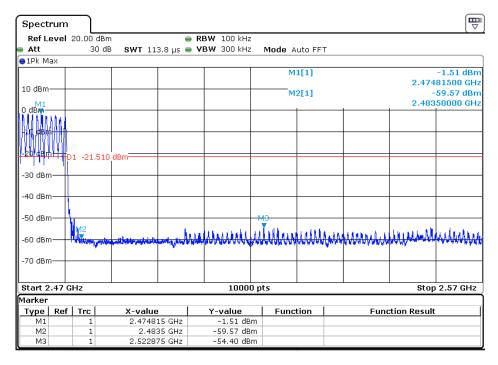




CH00 (Lower) Data rate 1Mbps



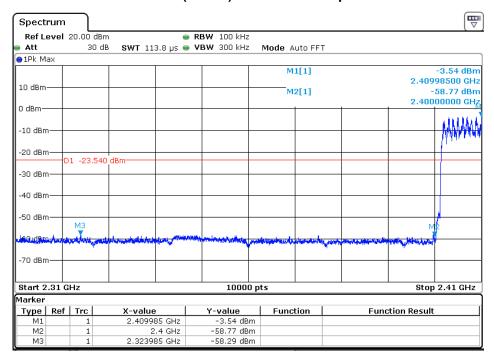
CH 78 (Upper) Data rate 1Mbps



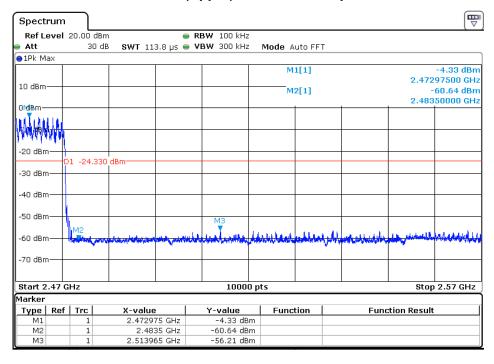
DongGuan City, GuangDong, P.R.China



CH00 (Lower) Data rate 3Mbps



CH 78 (Upper) Data rate 3Mbps





5.10 Conducted Spurious Emissions

5.10.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.10.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold sweep points ≥ investigated frequency range/RBW.

5.10.3 Deviation from standard

No deviation.

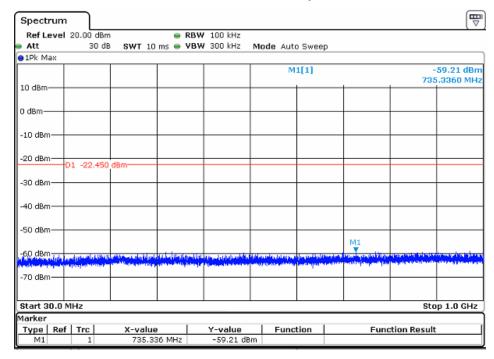
5.10.4 Test setup

EUT	SPECTRUM
	ANALYZER

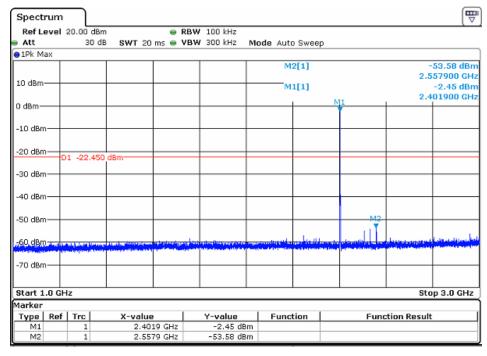


5.10.5Test results

CH00 Data rate 1Mbps



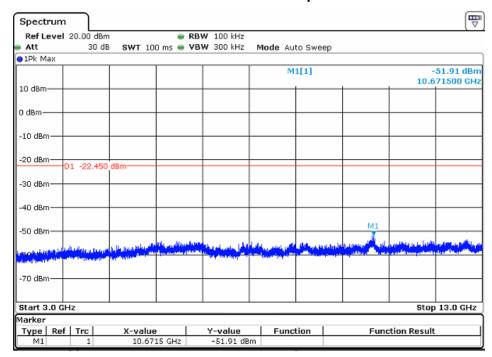
Note: Sweep Points=9700 CH00 Data rate 1Mbps



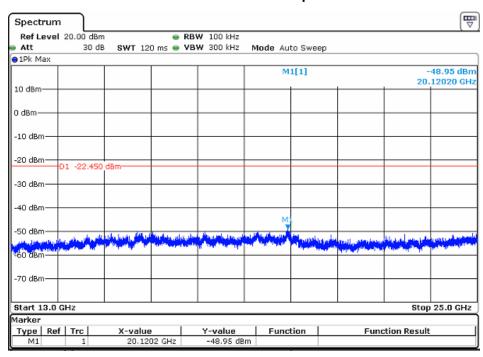
Note: Sweep Points=20000



CH00 Data rate 1Mbps



Note: Sweep Points=100000 CH00 Data rate 1Mbps



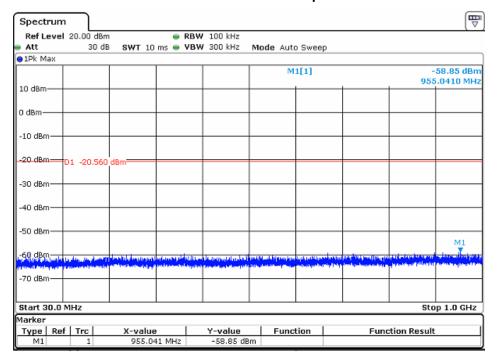
Note: Sweep Points=120000

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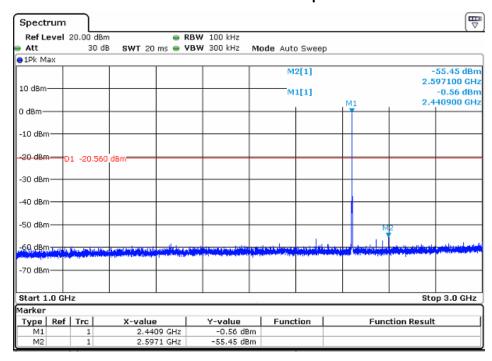


CH39 Data rate 1Mbps

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Note: Sweep Points=9700 CH39 Data rate 1Mbps

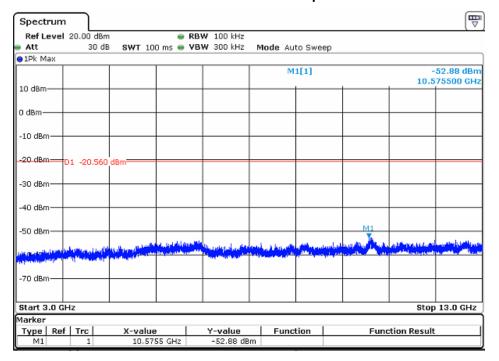


Note: Sweep Points=20000

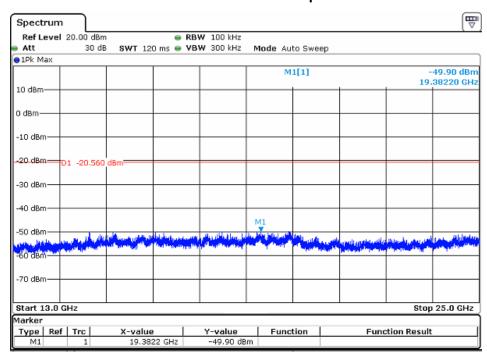
DongGuan City, GuangDong, P.R.China



CH39 Data rate 1Mbps



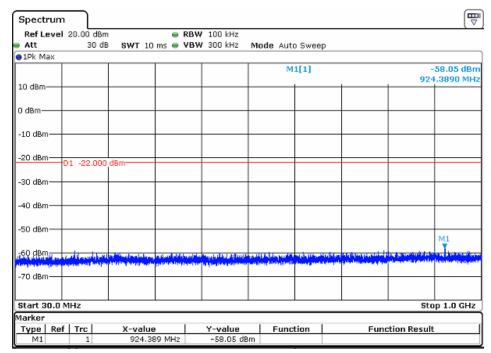
Note: Sweep Points=100000 CH39 Data rate 1Mbps



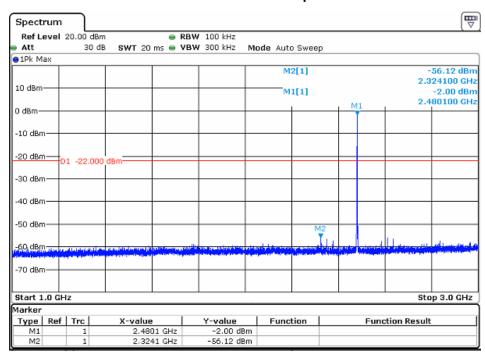
Note: Sweep Points=120000



CH78 Data rate 1Mbps



Note: Sweep Points=9700 CH78 Data rate 1Mbps

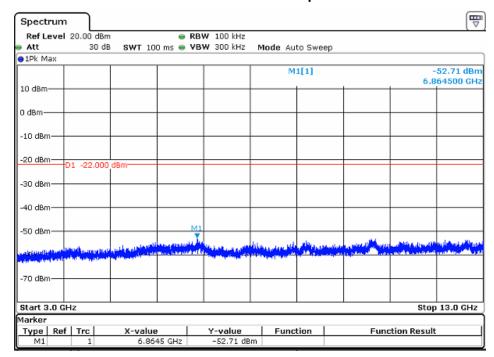


Note: Sweep Points=20000

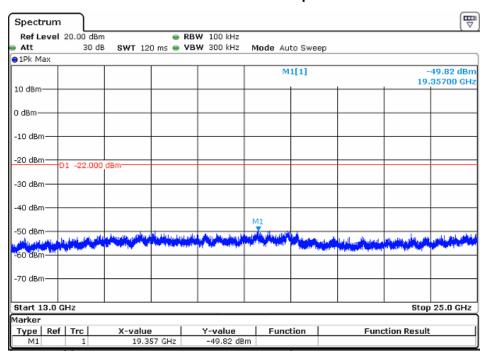
DongGuan City, GuangDong, P.R.China



CH78 Data rate 1Mbps



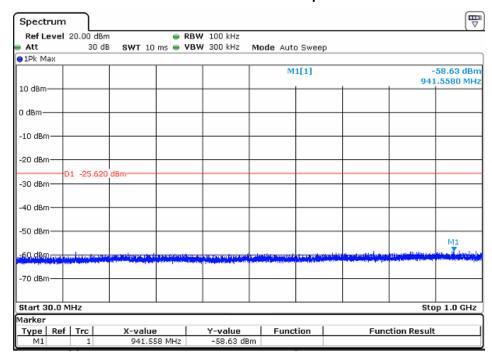
Note: Sweep Points=100000 CH78 Data rate 1Mbps



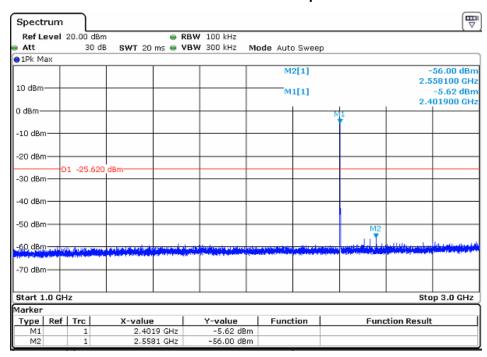
Note: Sweep Points=120000



CH00 Data rate 3Mbps



Note: Sweep Points=9700 CH00 Data rate 3Mbps

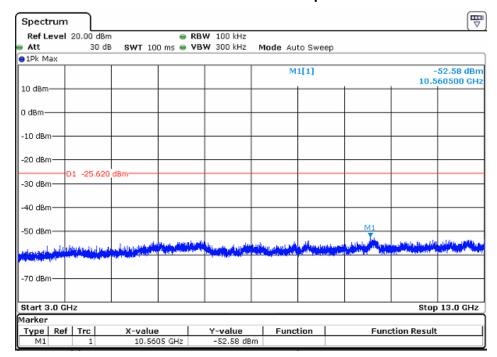


Note: Sweep Points=20000

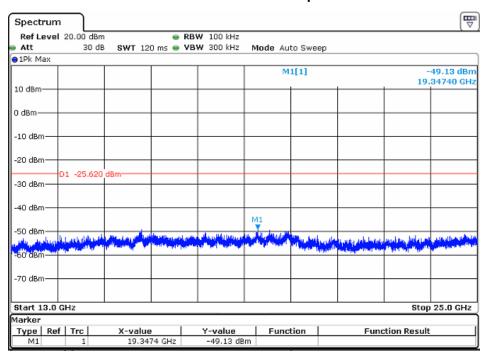
DongGuan City, GuangDong, P.R.China



CH00 Data rate 3Mbps



Note: Sweep Points=100000 CH00 Data rate 3Mbps

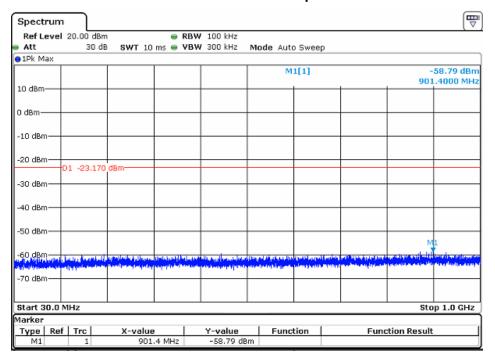


Note: Sweep Points=120000

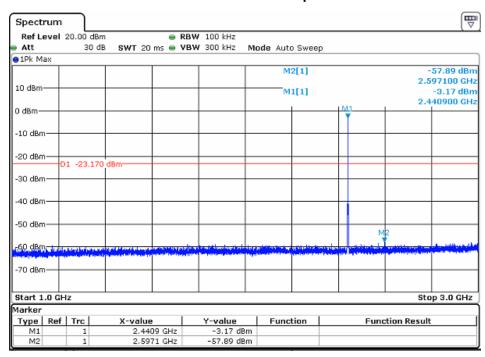
DongGuan City, GuangDong, P.R.China



CH39 Data rate 3Mbps



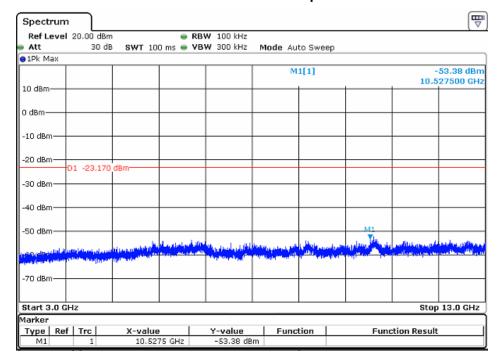
Note: Sweep Points=9700 CH39 Data rate 3Mbps



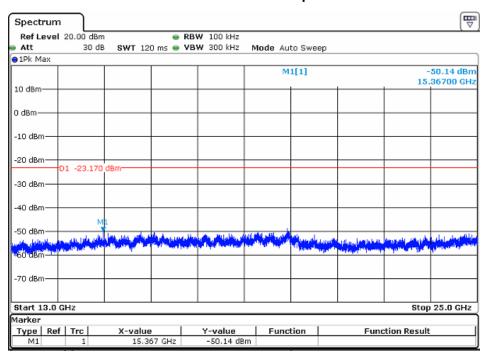
Note: Sweep Points=20000



CH39 Data rate 3Mbps



Note: Sweep Points=100000 CH39 Data rate 3Mbps

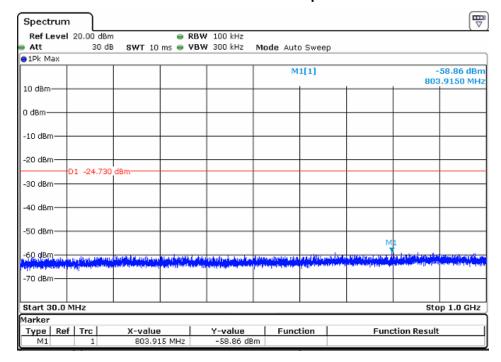


Note: Sweep Points=120000

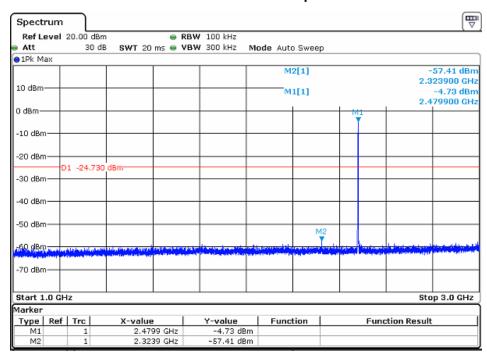
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CH78 Data rate 3Mbps



Note: Sweep Points=9700 CH78 Data rate 3Mbps

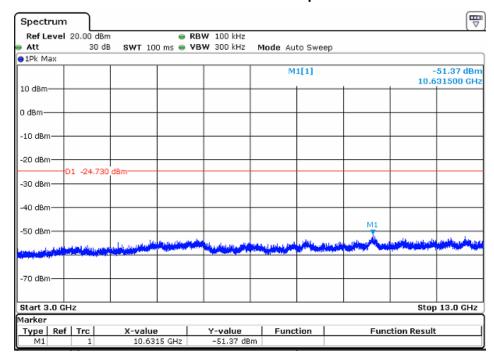


Note: Sweep Points=20000

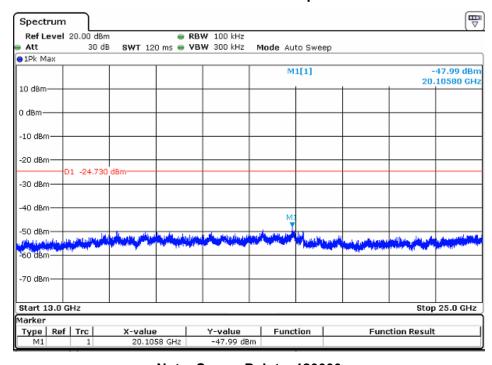
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CH78 Data rate 3Mbps



Note: Sweep Points=100000 CH78 Data rate 3Mbps



Note: Sweep Points=120000



6 Photographs

6.1 Radiated Spurious Emission Test Setup

Below 1GHz:



Above 1GHz:





6.2 Conducted Emission Test Setup





7 APPENDIX-Photographs of EUT Constructional Details









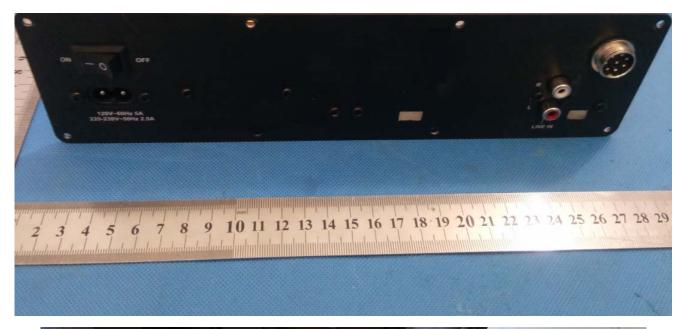












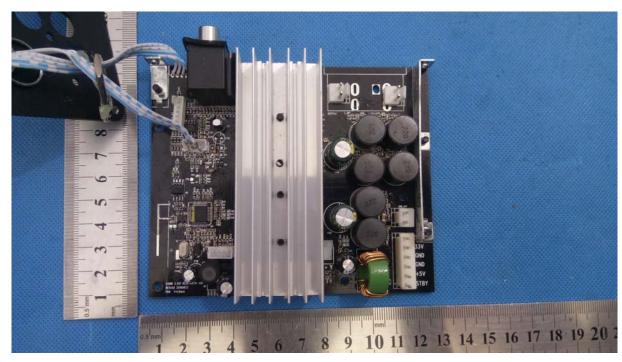


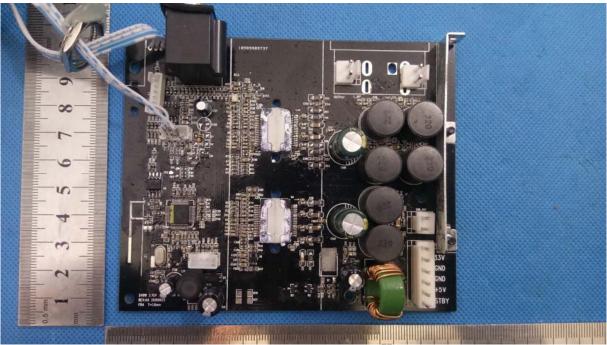




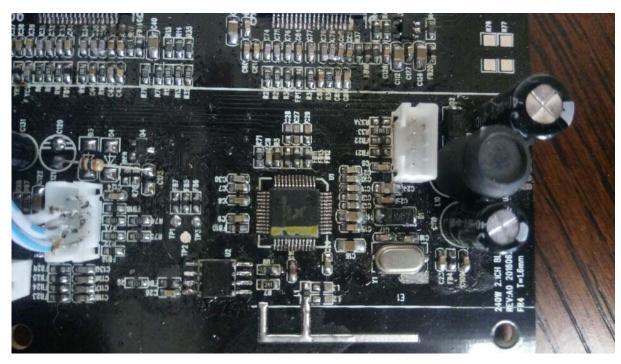


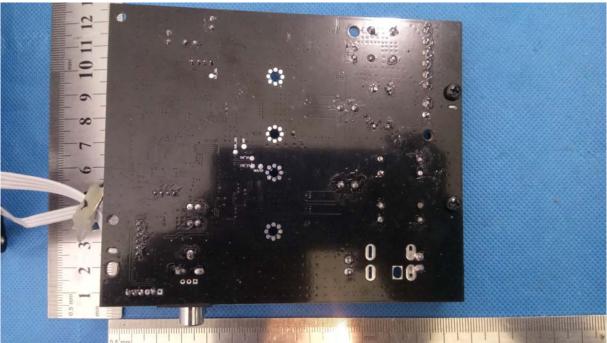




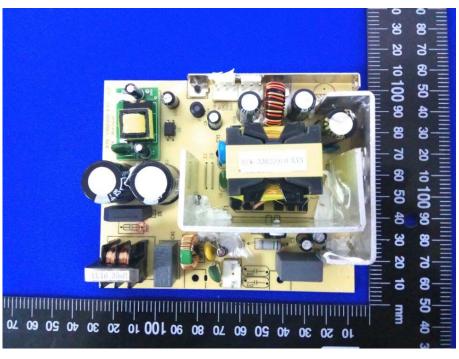


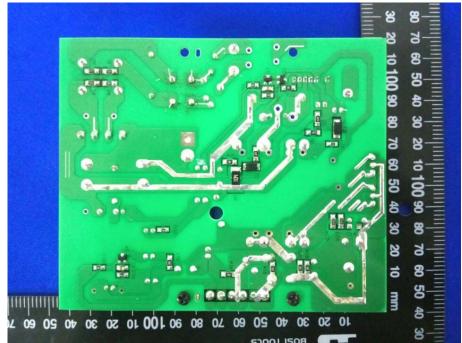




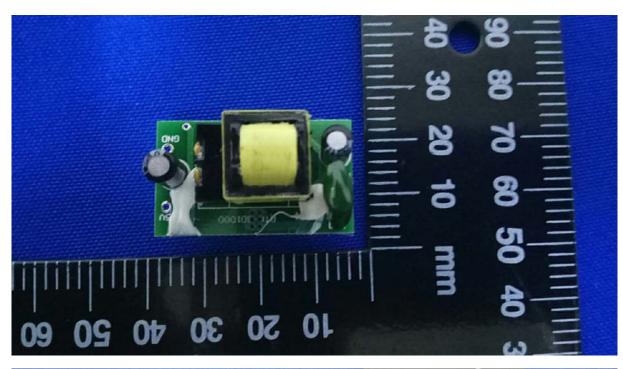




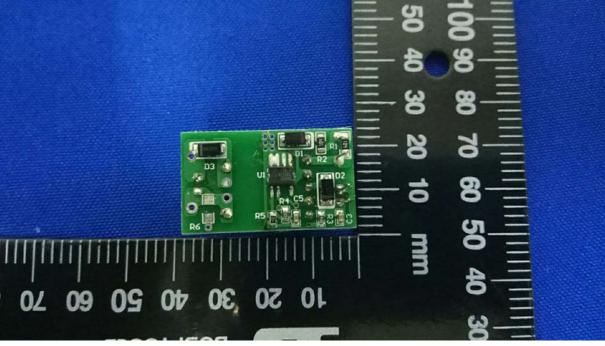








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** End of report **