

FCC Test Report

Part 15 subpart C

Client Information:

Applicant:	SHENZHEN ACADIA ELECTRONIC CO.,LTD
Applicant add .:	39 Building, B Industry Zone, Tang Lang, Xili Lake, Shenzhen, China.

Product Information:

Product Name:	Bluetooth Headphone With LED Flashing Light	
Model No.:	JP-738	
Derivative model No.:	N/A	
Brand Name:	N/A	
FCC ID:	2AAVA-JP738	
Standards:	CFR 47 FCC PART 15 SUBPART C:2016 section 15.247	

Prepared By:

UL-CCIC Company Limited

Add.: Electronic Building, Parage Electronic Industrial Park, No. 8 Nanyun Er Road, Guangzhou Science Park, Guangzhou, 510663 China

Date of Receipt:	May 17, 2016	Date of Test:	May 17~ May 27, 2016
Date of Issue:	May 27, 2016	Test Result:	Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited, 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: _____

Approved by: Richardsi



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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			
Occupied Bandwidth	FCC Part 15 C:2016	Section 15.247(a)(2)	PASS			
Peak power density	FCC Part 15 C:2016	Section 15.247(e)	PASS			
Maximum Peak Output Power	FCC Part 15 C:2016	Section 15.247(b)(1)	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			
Note:						
(1) Reference to the	(1) Reference to the KDB 558074 D01 DTS Guidance v03r05 and ANSI C63.10:2013.					
(2) The pouduct sup	(2) The pouduct support for Bluetooth basic rate / EDR and low energy connections					

Bluetooth 4.0 Dual-mode, this report is low energy connection test mode, for basic rate / EDR and low energy connections / EDR connection please refers to the report number 4787447304-1.

2.2 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



2.3 Measurement Uncertainty

All measurements involve certain levels of uncertainties, the maximum value of the uncertainty as below:

No.	Item	Uncertainty
1	Conducted Emission Test	1.20dB
2	Radiated Emission Test	3.30dB
3	RF power,conducted	0.16dB
4	RF power density,conducted	0.24dB
5	Spurious emissions,conducted	0.21dB
6	All emissions,radiated(<1G)	4.68dB
7	All emissions,radiated(>1G)	4.89dB



3 Test Facility

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

.CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr. 18, 2013

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2014.

.Industry Canada(IC)-Registration No: IC6819A-1

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 12, 2014.

.VCCI- Registration No: 2705

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None



4 General Information

4.1 General Description of EUT

Manufacturer:	HODIXI ELECTRONIC CO., LTD
Manufacturer Address:	Flour 4, C Building, Hongjun Industry zone, Qingtang 3th Road, Fenggang, Dongguan
EUT Name:	Bluetooth Headphone With LED Flashing Light
Model No:	JP-738
Operation frequency:	2402 MHz to 2480 MHz
NUMBER OF CHANNEL:	40
Modulation Technology:	GFSK
Bluetooth version:	BT4.0 Dual-mode
Antenna Type:	PCB Antenna
Antenna Gain:	maximum 0dBi
H/W No.:	JP738PK
S/W No.:	00
Brand Name:	N/A
Serial No:	N/A
Power Supply Range:	DC 5V from adapter, AC 120V/60Hz for adapter or DC 3.7V from battery.
Power Supply:	The same as above.
Power Cord:	N/A
Output power (max) :	0.82dBm
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

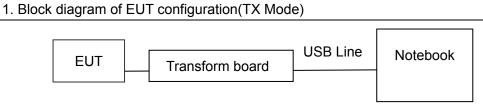


Description of Channel:						
Channel	Frequency (MHz)	Channel	Frequency (MHz)			
00	2402	20	2442			
01	2404	21	2444			
02	2406	22	2446			
03	2408	23	2448			
04	2410	24	2450			
05	2412	25	2452			
06	2414	26	2454			
07	2416	27	2456			
08	2418	28	2458			
09	2420	29	2460			
10	2422	30	2462			
11	2424	31	2464			
12	2426	32	2466			
13	2428	33	2468			
14	2430	34	2470			
15	2432	35	2472			
16	2434	36	2474			
17	2436	37	2476			
18	2438	38	2478			
19	2440	39	2480			



4.2 Description of Test conditions

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



Note:

- 1. The EUT was used fully-charged battery programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.
- 2. Set EUT as above block diagram, 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. 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	3	1 near top, 1 near middle and 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.



4.3 Test Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Notebook	ASUS	N/A	X401A	X16-96072	N/A
2	USB line	N/A	N/A	N/A	N/A	0.3m/unshielded /detachable
3	Transform board	N/A	N/A	N/A	N/A	N/A

4.4 EUT Peripheral List

N	۱o.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	Remark
	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date		
1	SIGNAL ANALYZER	R&S	FSV40	101470	2015.06.29	2016.06.28		
2	EMI Measuring Receiver	R&S	ESR	101660	2015.06.29	2016.06.28		
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2015.06.29	2016.06.28		
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2015.06.29	2016.06.28		
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2015.06.29	2016.06.28		
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2015.06.29	2016.06.28		
7	SHF-EHF Horn	SCHWARZBECK	BBHA9170	BBHA9170367	2015.06.29	2016.06.28		
8	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.29	2016.06.28		
9	EMI Test Receiver	R&S	ESCI	100124	2015.06.29	2016.06.28		
10	LISN	Kyoritsu	KNW-242	8-837-4	2015.06.29	2016.06.28		
11	LISN	Kyoritsu	KNW-407	8-1789-3	2015.06.29	2016.06.28		
12	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.29	2016.06.28		
13	Loop Antenna	ETS	6512	00165355	2015.06.29	2016.06.28		
14	Radiated Cable 1# (30MHz-1GHz)	FUJIKURA	5D-2W	01	2015.12.25	2016.12.24		
15	Radiated Cable 2# (1GHz -25GHz)	FUJIKURA	10D2W	02	2015.12.25	2016.12.24		
16	Conducted Cable 1#(9KHz-30MHz)	FUJIKURA	1D-2W	01	2015.12.25	2016.12.24		
17	SMA Antenna connector	Dosin	Dosin-SMA	N/A	N/A	N/A		
Note:	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.							



6 Test Result

6.1 Antenna Requirement

6.1.1 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.

6.1.2 EUT Antenna

The antenna is layout on PCB in the EUT and no consideration of replacement. Antenna gain is maximum 0dBi from 2.4GHz to 2.5GHz.



6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

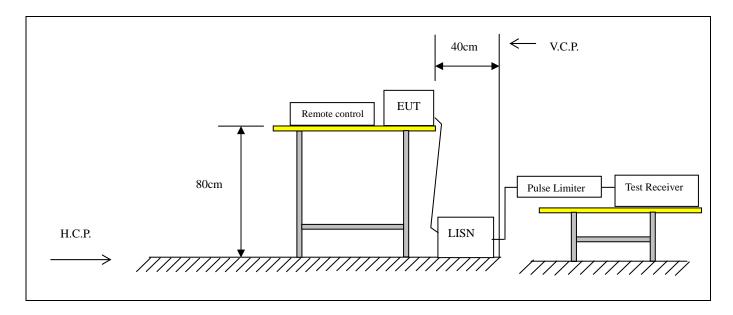
Frequency of Emission (MHz)	Conducte	d Limit (dBµV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m 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.

6.2.3 Test setup





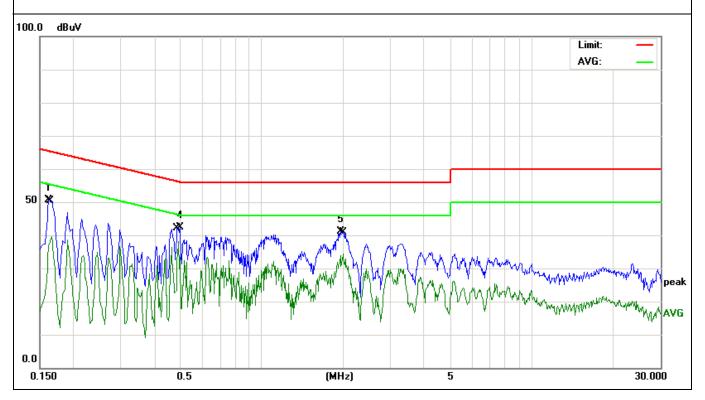
6.2.4 Test results

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name. :	JP-738		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date :	2016-05-20		
Test Mode:	TX CH00 (worst case)	Phase :	Line		
Test Voltage :	DC 5V from adapter, AC 120V/60Hz for adapter				

Frequency (MHz)	Meter Reading (dBµV)	Factor(dB)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Detector
0.1620	38.90	11.68	50.58	65.36	-14.78	Quasi-Peak
0.1660	27.90	11.61	39.51	55.15	-15.64	Average
0.4900	28.08	9.99	38.07	46.17	-8.10	Quasi-Peak
0.4980	32.34	9.98	42.32	56.03	-13.71	Average
1.9500	31.07	9.96	41.03	56.00	-14.97	Quasi-Peak
2.0100	24.30	9.96	34.26	46.00	-11.74	Average

Remark:

1. Factor = Insertion Loss + Cable Loss + Pulse limit.



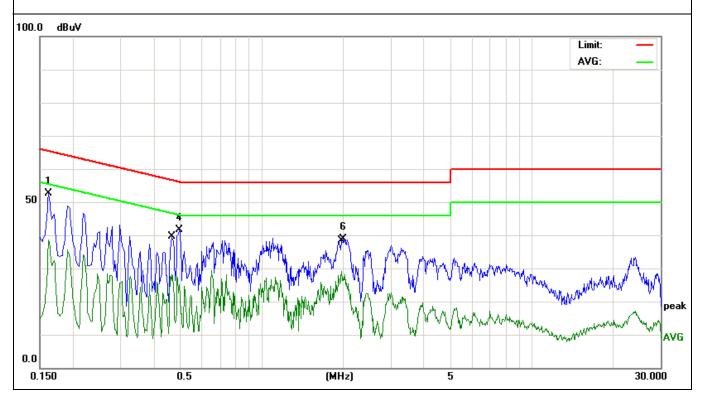


EUT:	Bluetooth Headphone With LED Flashing Light	Model Name. :	JP-738	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date :	2016-05-20	
Test Mode: TX CH00 (worst case)		Phase :	Neutral	
Test Voltage : DC 5V from adapter, AC 120V/60Hz for adapter				

Frequency (MHz)	Meter Reading (dBµV)	Factor(dB)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Detector
0.1620	41.03	11.68	52.71	65.36	-12.65	Quasi-Peak
0.1620	27.06	11.68	38.74	55.36	-16.62	Average
0.4660	18.12	10.01	28.13	46.58	-18.45	Quasi-Peak
0.4940	31.54	9.99	41.53	56.10	-14.57	Average
1.9700	19.11	9.96	29.07	46.00	-16.93	Quasi-Peak
2.0059	28.90	9.96	38.86	56.00	-17.14	Average

Remark:

1. Factor = Insertion Loss + Cable Loss + Pulse limit.





6.3 Radiated Emissions Measurement

6.3.1 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)).

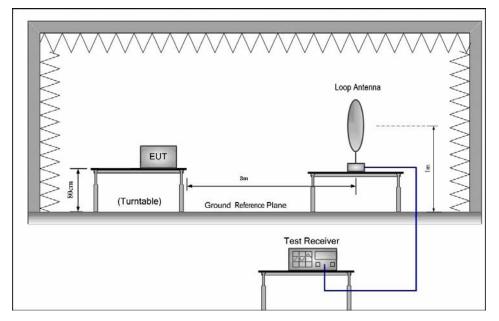
Executional of Emission (MHz)	Field Strer	ngth	Measurement
Frequency of Emission (MHz)	μV/m	dBµV/m	Distance (meters)
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3



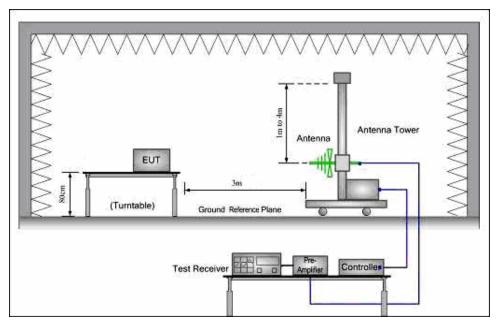
6.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:

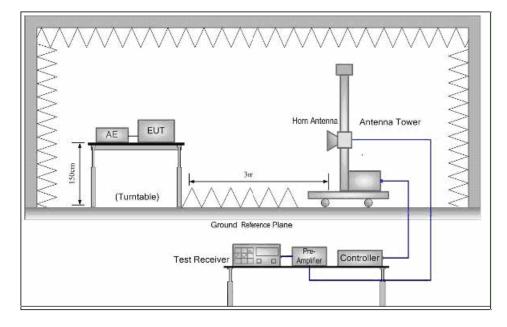


2) 30 MHz to 1 GHz emissions:





3) 1 GHz to 25 GHz emissions:





6.3.3 Test procedure

- a. The EUT was placed on the top of a wooden table 0.8 meters (for measurement at frequency below 1GHz) and a wooden table 1.5 meters (for measurement at frequency above 1GHz) above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter, for the test frequency of above 1GHz, horn antenna opening in the test would have been facing the EUT when rise or fall) and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.
- g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
- h. Repeat above procedures until all frequencies measured was complete.

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.

In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test result at least have 20dB margin.The EUT was tested in Chamber Site.



6.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738			
Temperature:	25 ℃	Test Data	2016-05-20			
Pressure:	1005 hPa	Relative Humidity:	60%			
Test Mode :	TX(1Mbps worst case)	Test Voltage :	DC 3.7V from battery			
Measurement Distance	3 m	Frenqucy Range	9KHz to 30MHz			
RBW/VBW	9KHz~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

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738		
Temperature:	25 ℃	Test Data	2016-05-20		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode :	TX (1Mbps) CH00 (worst case)	Test Voltage :	DC 3.7V from battery		
Measurement Distance	3 m	Frenqucy Range	30MHz to 1GHz		
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.				

(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Margin	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
48.5016	28.82	-14.22	14.60	40.00	-25.40	QUASIPEAK
107.5101	29.95	-15.48	14.47	43.50	-29.03	QUASIPEAK
183.2005	30.49	-11.34	19.15	43.50	-24.35	QUASIPEAK
290.0172	30.46	-10.18	20.28	46.00	-25.72	QUASIPEAK
451.1350	30.90	-6.90	24.00	46.00	-22.00	QUASIPEAK
*721.7259	31.43	-0.41	31.02	46.00	-14.98	QUASIPEAK

(b) Antenna polarization: vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
39.5757	28.76	-16.62	12.14	40.00	-27.86	QUASIPEAK
112.5244	34.15	-13.77	20.38	43.50	-23.12	QUASIPEAK
168.4138	35.09	-15.18	19.91	43.50	-23.59	QUASIPEAK
252.9482	38.16	-13.37	24.79	46.00	-21.21	QUASIPEAK
449.5558	33.87	-6.89	26.98	46.00	-19.02	QUASIPEAK
*726.8052	31.36	-0.51	30.85	46.00	-15.15	QUASIPEAK

Note: "' means the worst case

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier



Radiated Emissions Test Data Above 1GHz

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738		
Temperature:	25 ℃	Test Data	2016-05-20		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode :	TX(1Mbps)	Test Voltage :	DC 3.7V from battery		
Measurement Distance	3 m	Frenqucy Range	1GHz to 25GHz		
RBW/VBW	Spurious emission: 1MHz/1MHz for Peak, 1MHz/10Hz for Average. non-restricted band: 100KHz/300KHz for Peak.				

(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.000	54.51	5.06	59.57	74.00	-14.43	PEAK
*4804.000	42.90	5.06	47.96	54.00	-6.04	AVERAGE
7206.000	47.84	7.03	54.87	74.00	-19.13	PEAK
7206.000	36.48	7.03	43.51	54.00	-10.49	AVERAGE

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.000	56.60	5.06	61.66	74.00	-12.34	PEAK
*4804.000	43.76	5.06	48.82	54.00	-5.18	AVERAGE
7206.000	48.73	7.03	55.76	74.00	-18.24	PEAK
7206.000	37.09	7.03	44.12	54.00	-9.88	AVERAGE

Note: '*' means the worst case

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

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 00: 2402 MHz

Data rate: 1Mbps



Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4880.000	53.59	5.14	58.73	74.00	-15.27	PEAK
*4880.000	42.47	5.14	47.61	54.00	-6.39	AVERAGE
7320.000	45.16	7.52	52.68	74.00	-21.32	PEAK
7320.000	34.58	7.52	42.10	54.00	-11.90	AVERAGE

(a) Antenna polarization: Horizontal

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4880.000	55.93	5.14	61.07	74.00	-12.93	PEAK
*4880.000	43.86	5.14	49.00	54.00	-5.00	AVERAGE
7320.000	46.82	7.52	54.34	74.00	-19.66	PEAK
7320.000	36.31	7.52	43.83	54.00	-10.17	AVERAGE

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report. Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier Low Channel 19: 2440 MHz Data rate: 1Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.000	53.84	5.22	59.06	74.00	-14.94	PEAK
*4960.000	42.43	5.22	47.65	54.00	-6.35	AVERAGE
7440.000	45.53	8.06	53.59	74.00	-20.41	PEAK
7440.000	34.67	8.06	42.73	54.00	-11.27	AVERAGE

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.000	55.31	5.22	60.53	74.00	-13.47	PEAK
*4960.000	43.59	5.22	48.81	54.00	-5.19	AVERAGE
7440.000	46.52	8.06	54.58	74.00	-19.42	PEAK
7440.000	35.46	8.06	43.52	54.00	-10.48	AVERAGE

Note: '*' means the worst case

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

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 39: 2480 MHz

Data rate: 1Mbps



6.3.5 TEST RESULTS (Restricted Bands Requirements)

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738
Temperature:	25 ℃	Test Data	2016-05-20
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	TX(1Mbps)	Test Voltage :	DC 3.7V from battery
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz	for Average.	
	 The transmitter was setup to strength was measured at 2310- The transmitter was setup to strength was measured at 2483. The data of 2390MHz and 2483 	-2390 MHz. transmit at the hig 5-2500 MHz.	hest channel. Then the field

Test	Ant.Pol.	Freq.	Rea	ding	Ant/CF	А	ct	Lir	nit
Mode	H/V	(MHz)	Peak	AV	CF(dB)	Peak	AV	Peak	AV
			(dBuv)	(dBuv)		(dBuv/m)	(dBuv/m)	(dBuv/m)	(dBuv/m)
	Н	2390.00	45.38	34.32	-5.79	39.59	28.53	74.00	54.00
TX Data rate	V	2390.00	46.76	35.87	-5.79	40.97	30.08	74.00	54.00
1Mbps	Н	2483.50	45.82	34.43	-4.98	40.84	29.45	74.00	54.00
	V	2483.50	46.44	35.29	-4.98	41.46	30.31	74.00	54.00



6.4 BANDWIDTH TEST

6.4.1 Applied procedures / Limit

15.247(a) (2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

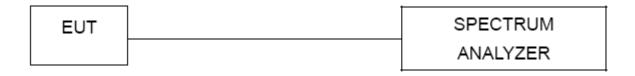
6.4.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW= 100KHz, VBW≧3×RBW, Sweep time = Auto, Detector Function = Peak, centering on a hopping channel Trace = Max Hold.
- d. Mark the peak frequency and -6 dB points bandwidth.

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup



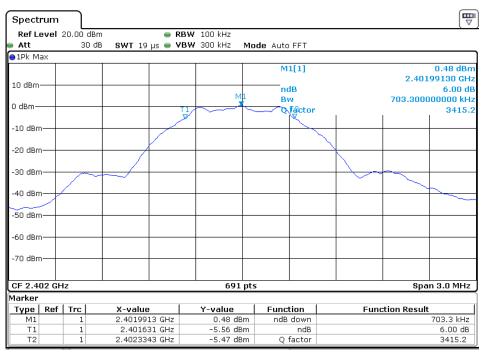


6.4.5 Test results

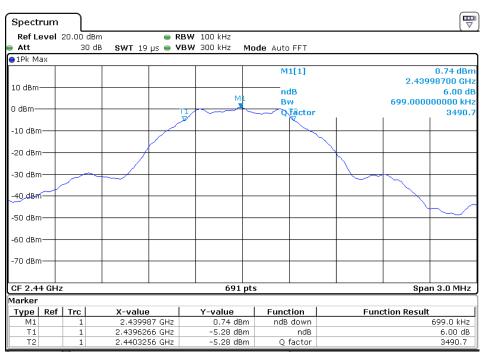
EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	DC 3.7V from battery
Test Mode :	TX(1Mbps)		

Test Mode	Test Channel	Frequency	6 dB Bandwidth	Limit
		(MHz)	(KHz)	(kHz)
Data rate 1Mbps	CH00	2402	703.3	≧500
	CH19	2440	699.0	≧500
	CH39	2480	703.3	≧500



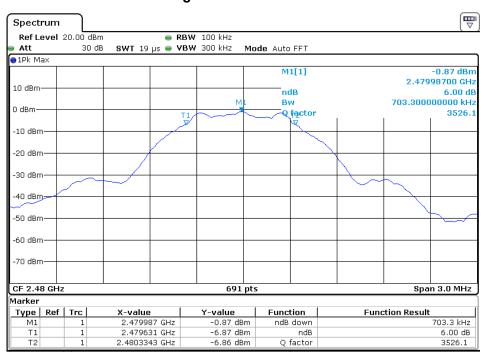






(1Mbps) The Middle Channel 19: 2440 MHz

(1Mbps) The High Channel 39: 2480MHz





6.5 Peak Power Density

6.5.1 Applied procedures / Limit

15.247(a) (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

6.5.2 Test procedure

- a. The testing follows Measurement procedure 10.2 Method PKPSD of FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as center frequency to channel center frequency, span=1.5 times the bandwith, detector = peak 3kHz≤RBW≤100kHz, VBW≥3×RBW kHz, Sweep time=Auto.
- d. Trace mode = max hold. Mark the peak.
- e. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.5.3 Deviation from standard

No deviation.

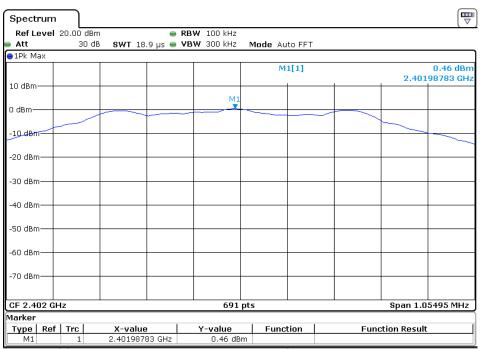


6.5.4 Test results

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738
Temperature:	24 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	DC 3.7V from battery
Test Mode :	TX(1Mbps)		

Test Mode	Channel frenqucy (MHz)	Power Density PSD 100kHz (dBm/100kHz)	_ Limit (dBm/3kHz)	Result
тх	2402	0.46	8	Pass
	2440	0.72	8	Pass
(1Mbps)	2480	-0.87	8	Pass

Note: The cable loss is 0.5dB



PSD 100kHz (1Mbps) The Lowest Channel 00: 2402MHz



PSD 100kHz (1Mbps) The Middle Channel 19: 2440MHz

Spectrum					
Ref Level 20.00 d		BW 100 kHz			
● Att 30 ● 1Pk Max	dB SWT 19 µs 🖷 V	BW 300 KHZ M	ode Auto FFT		
			M1[1]		0.72 dBm 2.43998635 GHz
10 dBm					
0 dBm		M1 <u>Y</u>			
-10-dBm					
-20 dBm					
-30 dBm					
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm					
CF 2.44 GHz		691 pt	s		Span 1.0485 MHz
Marker					
TypeRefTrcM11	X-value 2.43998635 GHz	Y-value 0.72 dBm	Function	Func	tion Result

PSD 100kHz (1Mbps) The High Channel 39: 2480MHz

Spectrum					
RefLevel 20.00 dBm Att 30 dB	_	W 100 kHz			
Alt 30 GB	SWT 18.9 µs 👄 VB	W 300 KHZ	Mode Auto FFT		
			M1[1]		-0.87 dBm 2.47998623 GHz
10 dBm				1 1	
0 dBm		M1			
-10 dBm					
-20 dBm					
-30 dBm					
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm					
CF 2.48 GHz Marker		691 p	ts	sp	oan 1.05495 MHz
Marker Type Ref Trc M1 1	X-value	Y-value -0.87 dBm	Function	Function	Result



6.6 Maximum Peak Output Power

6.6.1 Applied procedures / Limit

15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.6.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- ^{c.} Spectrum Setting: RBW≥Bandwidth, VBW≥3×RBW, Sweep time = Auto, Span≥3×RBW,
- d. Detector = peak. Trace mode = max hold.
- e Use peak marker function to determine the peak amplitude level.

6.6.3 Deviation from standard

No deviation.

6.6.4 Test setup



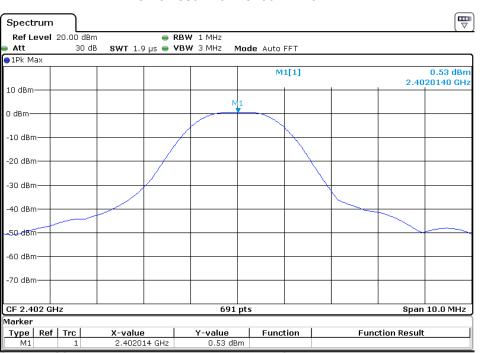


6.6.5 Test results

EUT:	Bluetooth Headphone With LED Flashing Light	Model Name :	JP-738
Temperature:	26 ℃	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX (1Mbps)		
Note: N/A			

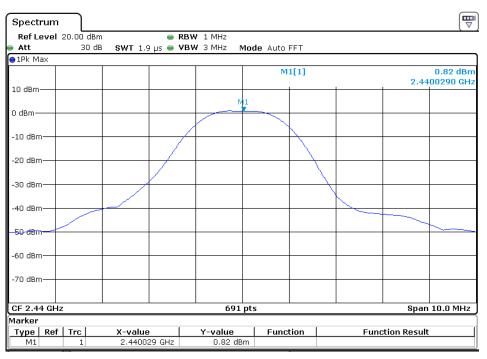
Test Mode	Frequency	Peak Output Power (dBm)	Limit (dBm)	Result
	2402 MHz	0.53	30	Pass
Data rate 1Mbps	2440 MHz	0.82	30	Pass
	2480 MHz	-0.76	30	Pass

Note: The cable loss is 0.5dB



(1Mbps) The Lowest Channel 00: 2402MHz





(1Mbps) The Middle Channel 19: 2440MHz

(1Mbps) The High Channel 39: 2480MHz

RefLevel 20.00 dBm	
	MHz
🕳 Att 30 dB SWT 1.9 µs 🖷 VBW 3	MHz Mode Auto FFT
9 1Pk Max	
	M1[1] -0.76 dBm 2.4800290 GHz
10 dBm	
0 dBm	M1
-10 dBm	
-20 dBm	
-30 dBm	
-40 dBm	
-50 dBm	
-70 dBm	
CF 2.48 GHz	691 pts Span 10.0 MHz
Marker	591 pts 500 mile
Type Ref Trc X-value Y-	0.76 dBm



6.7 Band edge

6.7.1 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 15.205(c)).

6.7.2 Test procedure

- a The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW \geq 300kHz, Sweep time=Auto, Detector Function=Peak.
- d. The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB. The Upper Edges attenuated more than 20dB.

6.7.3 Deviation from standard

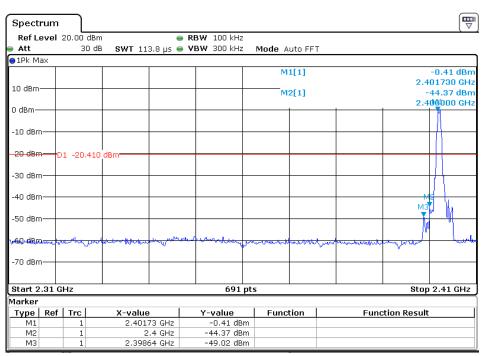
No deviation.

6.7.4 Test setup



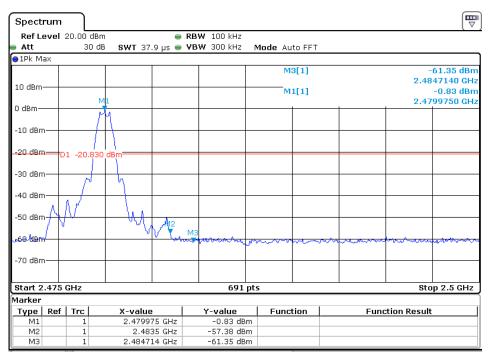


6.7.5 Test results



(1Mbps) The Lowest Channel 00: 2402MHz







6.8 Conducted Spurious Emissions

6.8.1 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 15.205(c)).

6.8.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW=300kHz, Sweep time=Auto, Detector Function=Peak, sweep points ≥ investigated frequency range/RBW.

6.8.3 Deviation from standard

No deviation.

6.8.4 Test setup





6.8.5 Test results

Ref Li Att	evel	20.00 dB 30 d			RBW 100 kHz /BW 300 kHz	Made 4	to Dura			
1Pk M	ax	30 0	IB 514419.	7 ms 🔲 V	NBW JUU KHZ	Mode Au	ITO SWB6	эр		
-						p	11[1]		-59.03 774.7	
10 dBm							1			
0 dBm—										
-10 dBn	ب									
-20 dBn		1 -19.79	0 d8m							
-30 dBrr	ı—									
40 dBr	<u>ا</u> -۱									
-50 dBrr	ı—									
so dar	.							M1		
-ou abri	and	alad fronthe	h Investigation of the second	alitated and a	will be a fear that the second s	wproduce-grand	Networks	our product of the for	new war when	nutri dun
-70 dBn	۱									
Start 3	0.0 M	Hz							Stop 1.0) GHz
larker										
Type	Ref	Tro	X-valu	9	Y-value	Fune	ction _	Func	tion Result	

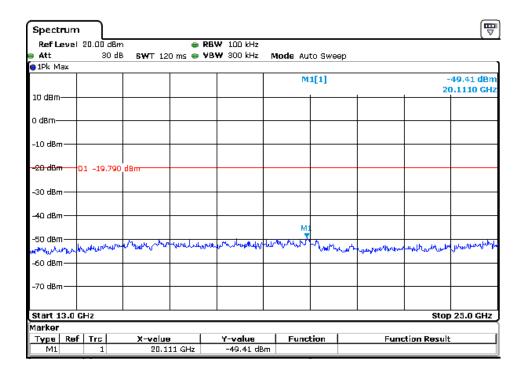
The Lowest Channel 00 (1Mbps): 2402MHz

Spectrum									Ē
Ref Leve l				₩ 100 kHz					
Att .	30	dB 6W T 20 r	ns 👄 VBV	W 300 kHz	Mode Auto	o Sweep	I		
●1Pk Max									
					M	2[1]			52.90 dBm 55861 GHz
10 dBm					M	1[1]		2.	0.21 dBm
							мі	2.	40230 GHz
							-T		
-10 dBm									
-20 d8m(01 -19.7	90 d8m							
-30 dBm									
-30 asm									
-40 dBm									
-to abiii									
-50 dBm							M2		
						1.	1 11		
-60.dBm	a failet on	monteres	-	-	and the second	wooladed -	and the second	www.	المعادر فكر صيحت
		, , ,							
-70 dBm									
Start 1.0 GH	lz			1		I	1	Sto	p 9.0 GHz
Marker									P
Type Ref	Tre	X-value	1	Y-volue	Fund	tion	Function Result		
M1	1	2,402)	3 GHz	0.21 dB					
M2	1	2,5586	1 GHz	-52.90 dB	m				





Spect	ոստ									
	evel	20.00 dBm			₩ 100 kHz					
Att		30 de	5WT 10	D ms 👄 VB	W 300 kHz	Mode Au	to Sweep			
⊜1Pk M	ax									
						M	1[1]			53.05 dBn
10 d8m								1		0.6190 GH
0 dBm—										
-10 dBr	ı+									
-20 dBn		1 -19.790	dBm							
-30 dВл	<u>ا</u> -۱									
-40 dBr	<u>ا</u> -۱									
-50 dBr	ı—							MI		
Alsonalism	muller	-	whent	Wardowhald	mularout	which	and the manifester	www.www.	him her which	unthere as
-70 dBr	<u>ا</u> ل-۱									
Start 3	.0 G⊦	IZ							Stop) 13.0 GHz
Marker	~ (N 1			1 5		_	.' n	
Type M1	Ref	Trc 1	X-value	19 GHz	<u>Y-value</u> -53.05 dB	Func	tion	Funi	ction Result	
1011		1	10.0	19 19 19 19	-33,03 QB	200				

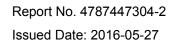




The Middle Channel 19(1Mbps): 2440MHz

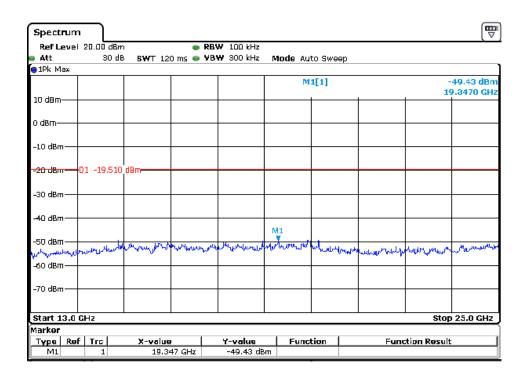
Spectrum	r)					
Ref Leve	1 20.00 dBm	1 1	🗃 RBW 100 kHz			
🛢 Att	30 dB	6WT 9.7 ms	🛢 VBW 300 kHz	Mode Auto Swe	өр	
😑 1Pk Max						
				M1[1]		-59.25 dBm 895.40 MHz
10 d8m						
0 dBm						
-10 dBm						
-20 d8m-	01 -19.510	dBm				
-30 dBm						
-40 dBm						
-50 dBm						Ma
	uydanyadar (bha	-	manufacconsciency	multiplesteriterthered	und the way of the second second	at reaction of the second
-70 dBm						
Start 30.0	MHz					Stop 1.0 GHz
Marker						
	f Trc	X-value	Y-value	Function	Functi	on Result
M1	1	895.4 MH	z -59.25 dB	m		

Spectrum								
Ref Level	20.00 de	lm	😑 Ri	BW 100 kHz				
Att	30	dB 6W T 20	ms 👄 ٧	BW 300 kHz	Mode Aut	o Sweet	0	
🔵 1Pk Max								
					D	12[1]		-55.06 dBm 2.59624 GHz
10 dBm					PY	1[1]	M1	0.49 dBm 2.43990 GHz
0 dBm							-IÎ	2.10530 GH2
-10 dBm								
-20 dBm	01 -19.51	10 dam						
-30 dBm								
-40 dBm								
-50 dBm								1 <u>P</u>
	الملحظيل والمحاسبة	- your work the	and the second second		war war	hadeen and	her and the second descent	And the strategies of the state
-70 dBm								
Start 1.0 G	Hz							Stop 9.0 GHz
Marker								
Type Ref	Tre	X-value		Y-volue	Fund	tion	Fun	ction Result
M1 M2	1	2,439	9 GHz 4 GHz	0.49 de -55.06 de				





Spectrun	n								
Ref Leve	1 20.00 dBn	ı	🖨 RB	₩ 100 kHz					
Att	30 de	6WT 10	0 ms 👄 🛛 🗷	W 300 kHz	Mode Au	to Sweep			
😑 1Pk Max									
					м	1[1]			53.68 dBm).6050 GHz
10 d8m									
0 dBm									
-10 dBm									
- 20 dBm	01 -19.510	dBm							
-30 dBm									
-40 dBm									
-50 dBm —			he and the second states	a coul da	l	ورود المعمر	mi the	بالملاب بالمالين	والمالية المالي والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والم
ueoraeth <u>A</u> re	unutyli	Magelaute		Arrentanten	and the second second second second	h antouto		r -	
-70 dBm									
Start 3.0 (GHz							Stop	13.0 GHz
Marker									
Type Re		X-value		Y-value	Function Function Result				
M1	1	10.6	05 GHz	-53.68 dB	m				





Spectrum						[♥
Ref Level 20.0			₩ 100 kHz			
Att	30 dB Б₩ Т 9.	7 ms 😑 VE	3W 300 kHz 🛛	Auto Swa	зөр	
1Pk Max						
				M1[1]		-58.65 dBn
10 d8m						929.10 MH
0 dBm						
-10 dBm						
20 dBm 1	21.100 dBm					
C	1.100 8811					
-30 dBm						
-40 dBm						
-50 dBm —						
						M1
60,dBm	unterter all the second	mullion	marchaetround	million with the	when the the start with the start of	waterstantion - the first strengt
-70 dBm			+ +			
Start 30.0 MHz					I	Stop 1.0 GHz
1arker						
Type Ref Tr			Y-value	Function	Functi	on Result
M1	1 929	.1 MHz	-58.65 dBm			

The High Channel 39(1Mbps): 2480MHz

Spect	r um													₽
Ref Le	evel	20.00	18m		RBW 100 kHz									<u>``</u>
Att		30) dB 6W T 20	ms 👄 ۹	VBW 300 kHz	: Mo	de Auto	o Swee	р					
olpk Ma	ах													
							M	2[1]					-	53.00 dBm
											2.3	.32417 GHz		
10 dBm·							M	1[1]						-1.10 dBm
										. ма . 2			2.	10050 GHz
0 dBm—												<u> </u>		
-10 dBm	+-י					-								
-20 dBm	u=dp	1 -21.	100 dBm			-			_				_	
-30 dBm	י−+											<u> </u>		
-40 dBm	י−+													
-50 dBm	ı—					_		L V	12					
									[] I			hu –		
160 dBm	-	Alacatela	and the market of	Here Mary	man and a second second	performance	antakana ,	and the second	ماياها.	diate.	إنياروومهم	, high descent	لسيل	فالدعدوا للغمينطيين
-70 dBm	ı—													
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Type	Ref	Tre	X-volu		Y-volue	. 1	Fund	tion	-		Euro	ction Re		
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M2		1		17 GHz	-53.00									
1.162			21021		00,00									



Spectru	m								
RefLev	el 20.00 dB	m	🖶 RBW 100 kHz						
att	30 t	B SWT 100 ms	💿 VBW 300 kHz	Mode Auto Swe	эөр				
😑 1Pk Max						•			
				M1[1]		-53.20 dBm 11.2270 GHz			
10 d8m									
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-10 dBm—									
-20 dBm	D1 -21.10	0 d8m							
-30 dBm —									
-40 dBm									
-50 dBm—					M1				
⊷ochabhr <mark>∾i</mark>	number	upererudpurat	and the desident of the day	ude when the the	man and any has when you will	and a second a second			
-70 dBm-									
Start 3.0	GHz					Stop 13.0 GHz			
Marker									
Type R M1	ef Trc	X-value 11.227 GH	Y-value z -53.20 dBn	Function	Function	Function Result			

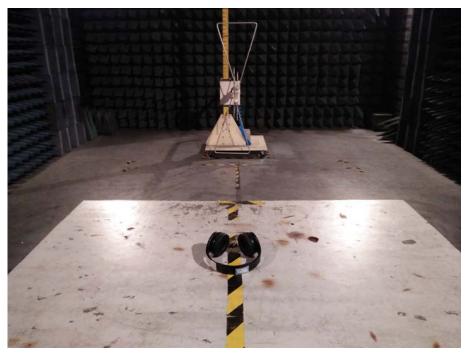
Spectrum									₹
Ref Level	20.00 dBm	1	😑 RB	₩ 100 kHz					
🖷 Att	30 dB	6WT 120) ms 👄 🛛 🗷	₩ 300 kHz	Mode Au	to Sweep			
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					м	1[1]	-49.35 dBm 20.1290 GHz		
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-50 dBm	Loughtor and Larve-	vuure	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a channed an	we that	" benning nath	Monuthwola	Muldagender	- man
-60 dBm									
-70 dBm									
Start 13.0	GH2							Ston	25.0 GHz
Marker								2100	
	Trc X-value Y-value				Function Function Result				
M1	1	20.12	9 GHz	-49.35 dB	m				



7 Photographs

7.1 Radiated Emission Test Setup

Below 1G



Above 1G





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7.2 Conduction Emissions Test Setup





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7.3 EUT Constructional Details

Please refer to report 4787447304-1.

End of report