

#### **FCC - TEST REPORT**

Report Number	:	60.792.17.013.01R01	Date of Issue	:	April 28, 2017		
Model	:	HG02429A, HG02429B					
Product Type	:	Bluetooth speaker					
Applicant	:	Lidl US Trading, LLC					
Address	:	3500 S. Clark Street Arlin	3500 S. Clark Street Arlington, Virginia, 22202				
Production Facility	:	DIGI MAX TECHNOLOG	DIGI MAX TECHNOLOGY LIMITED				
Address	:	Room 708, Building 3, Xinyuan B area, Jinshan Industrial District, Fuzhou, China					
Test Result	:	■Positive	□Negative				
Total pages including Appendices	:	44					

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# 2 Description of Equipment Under Test

### **Description of the Equipment Under Test**

Product: Bluetooth speaker

Model no.: HG02429A, HG02429B

FCC ID: 2AJ9O-HG2429

Rating: 1) 3.7VDC (1 x 3.7VDC Rechargeable battery)

2) 5.0VDC (USB port)

Frequency: 2402MHz-2480MHz

Antenna gain: 0 dBi

Number of operated channel: 79

Modulation: GFSK

Report Number: 60.792.17.013.01R01



# 3 Summary of Test Standards

#### **Test Standards**

FCC Part 15 Subpart C 10-1-16 Edition

Federal Communications Commission, PART 15 — Radio Frequency Devices,

Subpart C — Unintentional Radiators



# 4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.

3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13 Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Shenzhen 518052, P.R.China FCC Registration Number: 502708

Emission Tests				
Test Item	Test Site			
FCC Part 15 Subpart C	•			
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	Site 2			
FCC Title 47 Part 15.247(a)(1) 20dB & 99% Bandwidth	Site 2			
FCC Title 47 Part 15.247(b) Peak Output Power	Site 2			
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	Site 2			
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	Site 2			
FCC Title 47 Part 15.247(a)(1) Minimum Number of Hopping Frequencies	Site 2			
FCC Title 47 Part 15.247(a)(1) Minimum Hopping Channel Carrier Frequency	Site 2			
Separation				
FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy	Site 2			
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	Site 2			



# **4.1 Test Equipment Site List**

#### Radiated emission Test - Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	15-July-17
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	15-July-17
Horn Antenna	Rohde & Schwarz	HF907	102294	15-July-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	15-July-17
3m Semi-anechoic chamber	TDK	9X6X6		29-May-19

20dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Min. No. of Hopping Frequencies, Min. Hopping Channel Carrier Frequency Separation and Average Time of Occupancy – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	15-July-17
Signal Analyzer	Rohde & Schwarz	FSV40	101030	15-July-17
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	15-July-17
RF Switch Module	Rohde & Schwarz	OSP120/OSP- B157	101226/100851	15-July-17



# **4.2 Measurement System Uncertainty**

# **Measurement System Uncertainty Emissions**

System Measurement Uncertainty				
Items Extended Uncertainty				
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.54dB			
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;			
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.89dB; Vertical: 4.88dB;			
Uncertainty for Conducted RF test	2.04dB			

Report Number: 60.792.17.013.01R01



# 5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart C				
Test Condition	Pages	Te	st Resi	ult
		Pass	Fail	N/A
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	10-15			
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	16-18			
FCC Title 47 Part 15.247(b) Peak Output Power	19-21			
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	22-24	$\boxtimes$		
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	25-28			
FCC Title 47 Part 15.247(a)(1) Min. No. of Hopping Frequencies	29			
FCC Title 47 Part 15.247(a)(1) Min. of Hopping Channel Carrier Frequency Separation	30	$\boxtimes$		
FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy	31			
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	32			



### 6 General Remarks

#### **Remarks**

Client informs that the HG02429B have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with Bluetooth speaker, HG02429A. The difference lies only on different color of the different models. (Client's conformation letter shown at appendix C)

EMC Tests were performed on model: HG02429A.

#### SUMMARY:

- All tests according to the regulations cited on page 5 were
  - - Performed
  - □ Not Performed
- The Equipment Under Test
  - - Fulfills the general approval requirements.
  - ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: March 16, 2017

Testing Start Date: March 17, 2017

Testing End Date: April 19, 2017

- TÜV SÜD HONG KONG LTD. -

Reviewed by:

TSENG Chi Kit EMC Project Engineer ONGPrepared by:

CHAN Kwan Ho Alex EMC Project Engineer



Test Result

□ Passed

Not Passed

### 7 Emission Test Results

# 7.1 Spurious Radiated Emission

EUT: HG02429A

Op Condition: Operated, TX Mode (2402MHz)

Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal

Comment: 3.7VDC

Remark: 9kHz to 25GHz

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
62.225	21.54	40.0	-18.46	Quasi Peak
437.992	20.49	46.0	-25.51	Quasi Peak
875.947	26.11	46.0	-19.89	Quasi Peak
1238.505	38.06	74.0	-35.94	Peak
1238.505	27.24	54.0	-26.76	Average
1599.560	35.10	74.0	-38.90	Peak
1599.560	26.01	54.0	-27.99	Average
4799.531	40.71	74.0	-33.29	Peak
4799.531	29.94	54.0	-24.06	Average
8783.906	40.05	74.0	-33.95	Peak
8783.906	31.28	54.0	-22.72	Average
14997.656	47.73	74.0	-26.27	Peak
14997.656	39.22	54.0	-13.83	Average



### **Spurious Radiated Emission**

EUT: HG02429A

Op Condition: Operated TX Mode (2402MHz)

Test Spe

Commei

Remark:

ndition:	HG02429A Operated, TX Mode (2402MHz)	Test Result  ☐ Passed
pecification:	FCC15.205, 15.209 & 15.247(d) Antenna: Vertical	☐ Not Passed
ent:	3.7VDC	
k:	9kHz to 25GHz	

Frequency	Result	Limit	Margin	Detector
MHz	dBμV/m	dBµV/m	dB	
72.150	22.66	40.0	-17.34	Quasi Peak
95.660	23.45	43.5	-20.05	Quasi Peak
280.886	24.81	46.0	-21.19	Quasi Peak
1866.312	29.60	74.0	-44.40	Peak
1866.312	20.68	54.0	-33.32	Average
2248.062	31.86	74.0	-42.14	Peak
2248.062	21.09	54.0	-32.91	Average
2706.750	32.82	74.0	-41.18	Peak
2706.750	29.63	54.0	-24.37	Average
4799.530	41.12	74.0	-32.88	Peak
4799.530	30.95	54.0	-23.05	Average
8731.875	39.77	74.0	-34.23	Peak
8731.875	30.07	54.0	-23.93	Average
12807.185	45.28	74.0	-28.72	Peak
12807.185	36.11	54.0	-17.89	Average



### **Spurious Radiated Emission**

EUT: HG02429A

Op Condition

Test Spec

Comment

Remark:

dition: ecification:	HG02429A Operated, TX Mode (2441MHz) FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal	Test Result  ☐ Passed ☐ Not Passed
nt:	3.7VDC 9kHz to 25GHz	

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
72.165	21.88	40.0	-18.12	Quasi Peak
125.005	22.07	43.5	-21.43	Quasi Peak
248.350	25.34	46.0	-20.66	Quasi Peak
1241.750	32.41	74.0	-41.59	Peak
1241.750	23.18	54.0	-30.82	Average
1599.375	38.88	74.0	-35.12	Peak
1599.375	27.49	54.0	-26.51	Average
4877.812	39.03	74.0	-34.97	Peak
4877.812	30.11	54.0	-23.89	Average
8730.937	40.69	74.0	-33.31	Peak
8730.937	31.16	54.0	-22.84	Average
13196.718	43.36	74.0	-30.64	Peak
13196.718	33.57	54.0	-20.43	Average
15033.750	46.71	74.0	-27.29	Peak
15033.750	37.22	54.0	-16.78	Average



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Test Result

□ Passed

Not Passed

Average

Peak

Average

Peak

Average

Peak

Average

#### **Spurious Radiated Emission**

EUT: HG02429A

Op Condition: Operated, TX Mode (2441MHz)

Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical

29.14

38.87

29.20

39.78

30.06

43.49

33.84

Comment: 3.7VDC

4877.812

7491.562

7491.562

8608.593 8608.593

12863.437

12863.437

Remark: 9kHz to 25GHz

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
72.165	21.82	40.0	-18.18	Quasi Peak
120.150	22.07	43.5	-21.43	Quasi Peak
241.225	23.15	46.0	-22.85	Quasi Peak
1246.250	31.32	74.0	-42.68	Peak
1246.250	22.53	54.0	-31.47	Average
1592.062	30.12	74.0	-43.88	Peak
1592.062	21.58	54.0	-32.42	Average
4877.812	38.85	74.0	-35.15	Peak

54.0

74.0

54.0

74.0

54.0

74.0

54.0

-24.86

-35.13

-24.80

-34.22

-23.94

-30.51

-20.16



China

Test Result

□ Passed

Not Passed

Peak

Average Peak

Average

#### **Spurious Radiated Emission**

EUT: HG02429A

Op Condition: Operated, TX Mode (2480MHz)

42.89

33.18

47.21

39.03

Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal

Comment: 3.7VDC

12438.280

12438.280

15028.595

15028.595

Remark: 9kHz to 25GHz

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
54.550	20.85	40.0	-19.15	Quasi Peak
195.207	22.44	43.5	-21.06	Quasi Peak
450.885	23.26	46.0	-22.74	Quasi Peak
1258.550	32.22	74.0	-41.78	Peak
1258.550	21.84	54.0	-32.16	Average
1647.437	30.32	74.0	-43.68	Peak
1647.437	20.25	54.0	-33.75	Average
4955.625	38.65	74.0	-35.35	Peak
4955.625	29.22	54.0	-24.78	Average
7683.281	38.89	74.0	-35.11	Peak
7683.281	29.72	54.0	-24.28	Average

74.0

54.0

74.0

54.0

-31.11

-20.82

-26.79

-14.97



hina

Test Result

□ Passed

Not Passed

Average Peak

Average

Peak

Average

#### **Spurious Radiated Emission**

EUT: HG02429A

Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical

30.25

41.73

31.29

46.27

37.19

Comment: 3.7VDC

8813.437

10825.312

10825.312

14971.875

14971.875

Remark: 9kHz to 25GHz

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
55.940	20.59	40.0	-19.41	Quasi Peak
144.660	21.58	43.5	-21.92	Quasi Peak
305.690	23.59	46.0	-22.41	Quasi Peak
1592.635	30.85	74.0	-43.15	Peak
1592.635	21.28	54.0	-32.72	Average
2248.625	31.19	74.0	-42.81	Peak
2248.625	22.58	54.0	-31.42	Average
4955.625	39.07	74.0	-34.93	Peak
4955.625	28.55	54.0	-25.45	Average
8813.437	39.81	74.0	-34.19	Peak

54.0

74.0

54.0

74.0

54.0

-23.75

-32.27 -22.71

-27.73

-16.81

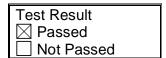


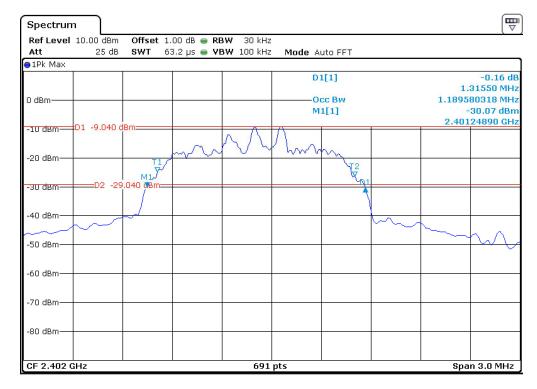
### 7.2 20dB & 99% Bandwidth

EUT: HG02429A

Op Condition: Operated, TX Mode (2402MHz)

Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth





20dB bandwidth	99% bandwidth
1315.500 kHz	1189.580 kHz



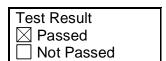
China

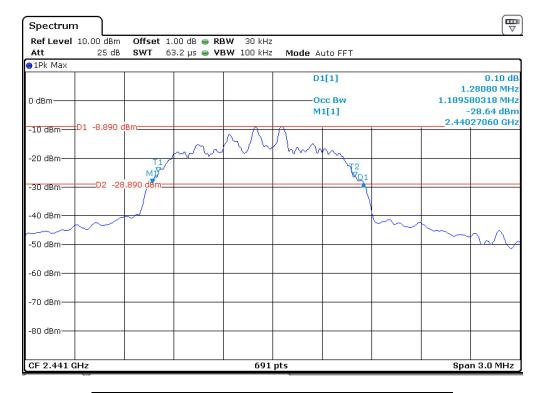
#### 20dB & 99% Bandwidth

EUT: HG02429A

Op Condition: Operated, TX Mode (2441MHz)

Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth





20dB bandwidth	99% bandwidth
1280.800 kHz	1189.580 kHz



hina

#### 20dB & 99% Bandwidth

EUT: HG02429A

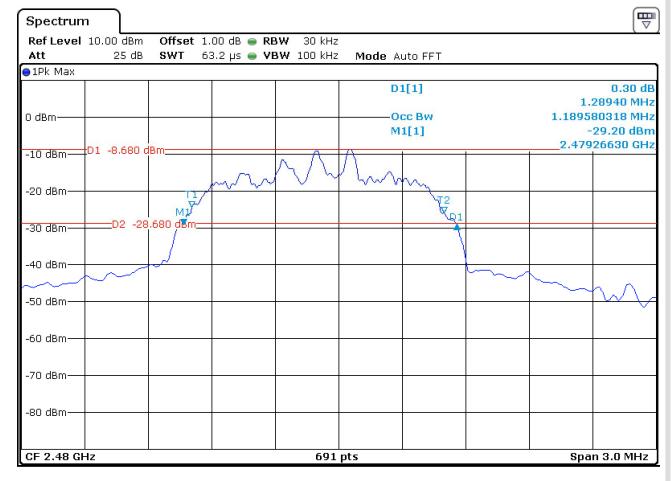
Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth

Comment: 3.7VDC

Test Result

☐ Passed
☐ Not Passed



20dB bandwidth	99% bandwidth
1289 400kHz	1189.580 kHz



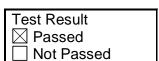
### 7.3 Peak Output Power

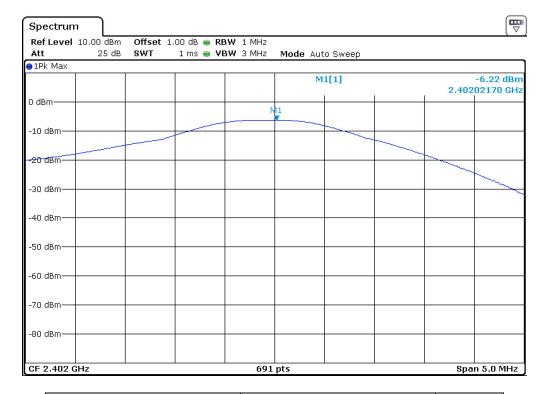
EUT: HG02429A

Op Condition: Operated, TX Mode (2402MHz)

Test Specification: FCC15.247(b)

Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB





Conducted Output Power	Conducted Output Power	Limit
(dBm)	(mW)	(mW)
-6.22	0.238	125.0



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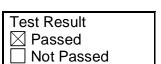
#### **Peak Output Power**

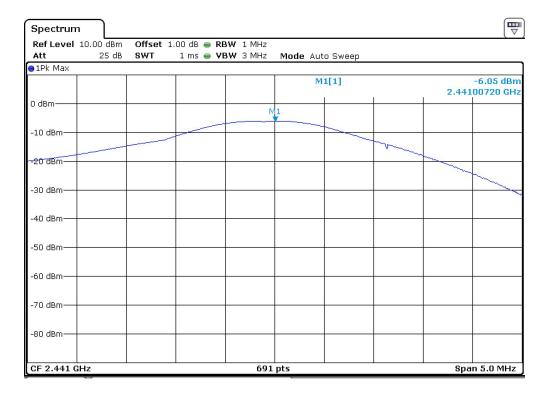
EUT: HG02429A

Op Condition: Operated, TX Mode (2441MHz)

Test Specification: FCC15.247(b)

Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB





<b>Conducted Output Power</b>	Conducted Output Power	Limit
(dBm)	(mW)	(mW)
-6.05	0.248	125.0



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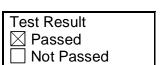
#### **Peak Output Power**

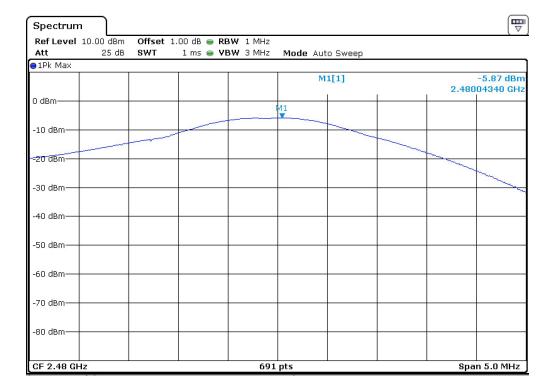
EUT: HG02429A

Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC15.247(b)

Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB





Conducted Output Power (dBm)	Conducted Output Power (mW)	Limit (mW)
-5.87	0.259	125.0



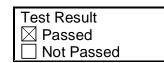
## 7.4 Spurious Emissions at Antenna Terminals

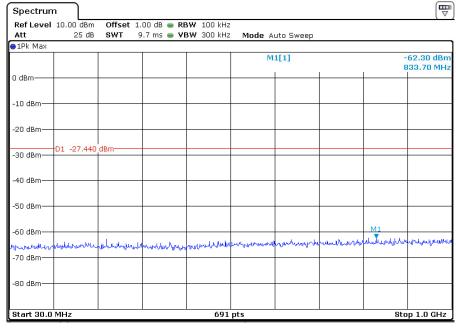
EUT: HG02429A

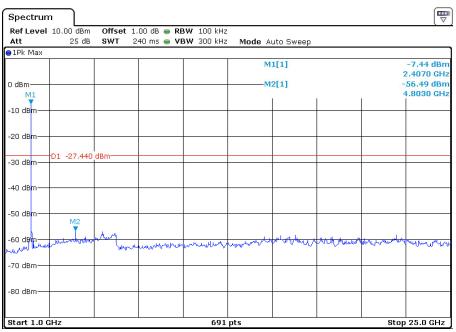
Op Condition: Operated, TX Mode (2402MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3.7VDC







Limit: 20dB below the highest level of the desired power in the passband



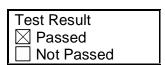
#### **Spurious Emissions at Antenna Terminals**

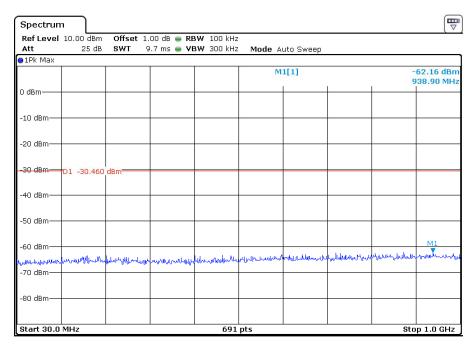
EUT: HG02429A

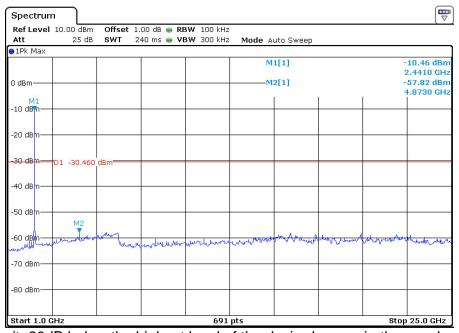
Op Condition: Operated, TX Mode (2441MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3.7VDC







Limit: 20dB below the highest level of the desired power in the passband



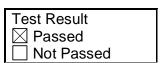
#### **Spurious Emissions at Antenna Terminals**

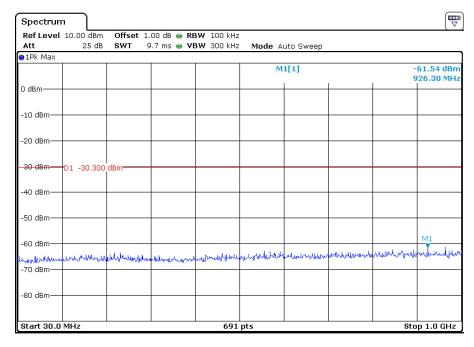
EUT: HG02429A

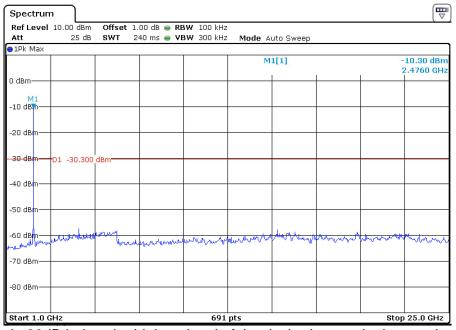
Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3.7VDC







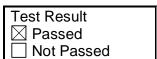
Limit: 20dB below the highest level of the desired power in the passband

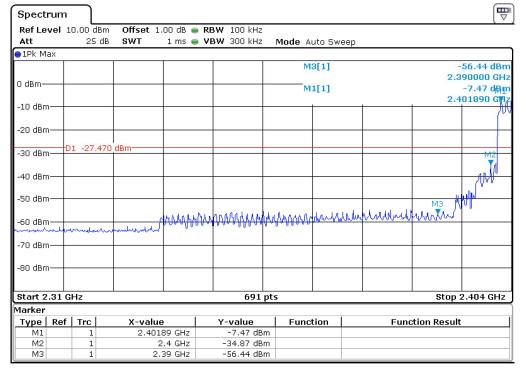


### 7.5 100kHz Bandwidth of band edges

EUT: HG02429A

Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(d), Conducted





Band edges	Limit
27.40 dB	> 20dB

Report Number: 60.792.17.013.01R01



China

Test Result

□ Passed

Not Passed

### 100kHz Bandwidth of band edges

EUT: HG02429A

Op Condition: Operated, TX Mode (2402MHz)

Test Specification: FCC15.247(d), Radiated

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
2390.000	40.04	74	-33.96	Peak
2390.000	30.68	54	-23.32	Average

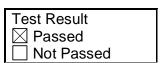


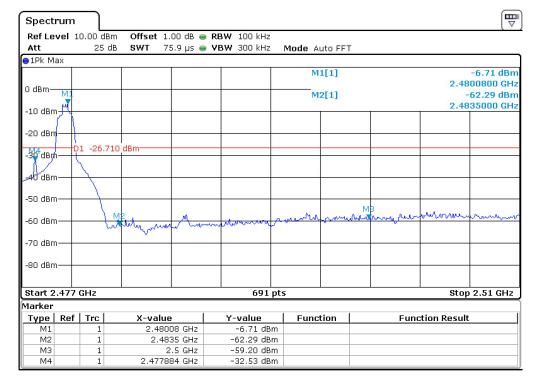
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#### 100kHz Bandwidth of band edges

EUT: HG02429A

Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(d), Conducted





Band edges	Limit
55.58 dB	> 20dB

Report Number: 60.792.17.013.01R01



Test Result

□ Passed

Average

Not Passed

### 100kHz Bandwidth of band edges

EUT: HG02429A

2483.500

Op Condition: Operated, TX Mode (2480MHz)

23.94

Test Specification: FCC15.247(d), Radiated

Comment: 3.7VDC

Frequency	Result	Limit	Margin	Detector
MHz	dBµV/m	dBµV/m	dB	
2483.500	34.62	74	-39.38	Peak

54

-30.06



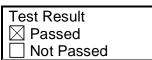
China

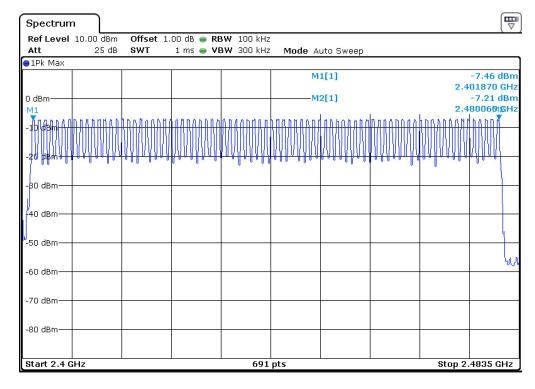
# 7.6 Minimum. Number of Hopping Frequencies

EUT: HG02429A

Op Condition: Operated, TX Mode (2402-2480MHz)

Test Specification: FCC15.247(a)(1)





Hopping Channels	Limit
79	≥ 15



China

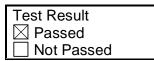
# 7.7 Minimum Hopping Channel Carrier Frequency Separation

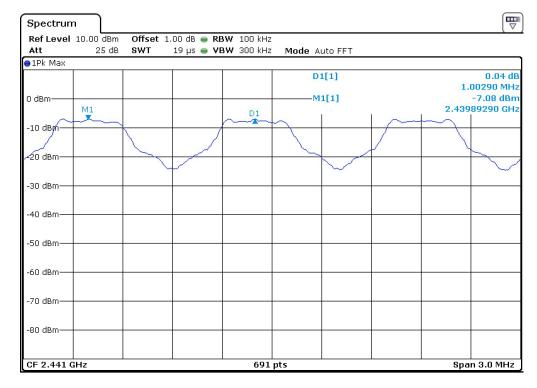
EUT: HG02429A

Op Condition: Operated, TX Mode (2402-2480MHz)

Test Specification: FCC15.247(a)(1)

Comment: 3.7VDC





Chanel Separation	Limit
1002.90 kHz	853.867 kHz

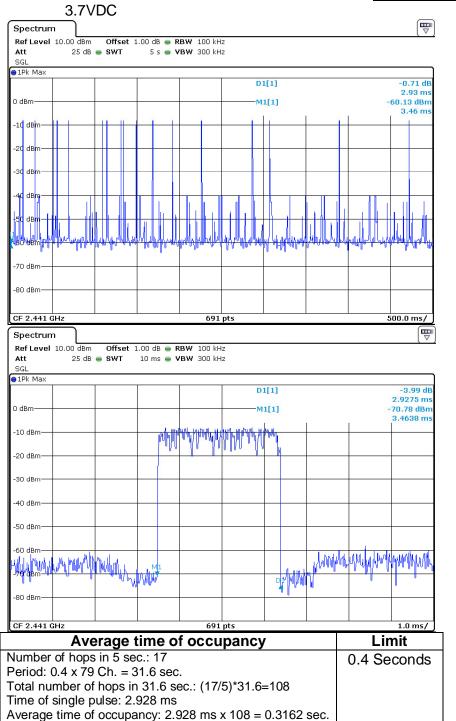
Limit: 2/3 of 20dB bandwidth of hopping channel



### 7.8 Average Channel Occupancy Time

EUT: HG02429A Test Result □ Passed Op Condition: Operated, TX Mode (2402MHz) Test Specification: FCC15.247(a)(1) Not Passed

Comment:



Report Number: 60.792.17.013.01R01



### 7.9 Antenna Requirement

EUT: HG02429A

Op Condition: Operated, TX Mode Test Specification: FCC15.203 & 15.247(b)

Comment: 3.7VDC

Test Result	
□ Passed	
☐ Not Passed	

#### Limit

For intentional device, according to FCC Title 47 Part 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. And according to FCC Title 47 Part 15.247(b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The antenna used in this product is PCB antenna, and the maximum gain of this antenna is 0.0 dBi.



# 8 Appendix A - Photographs of EUT





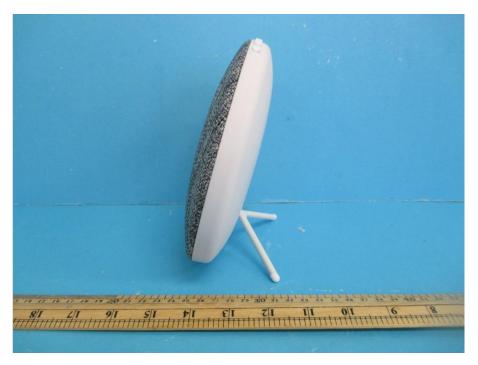


China











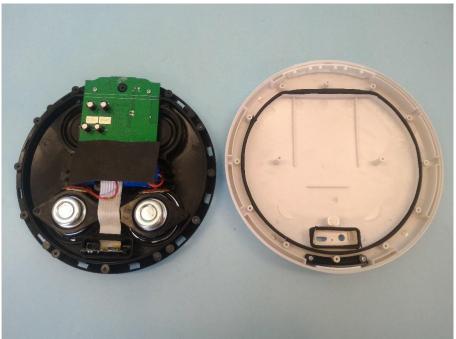










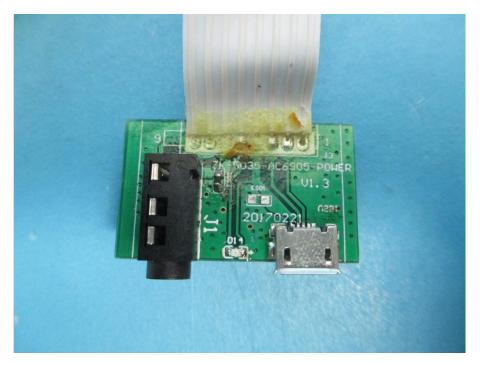


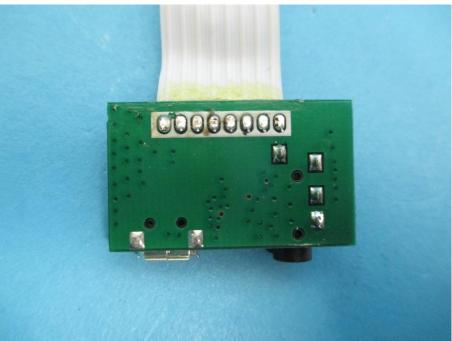




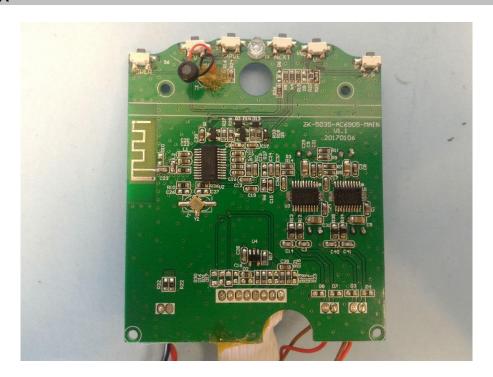


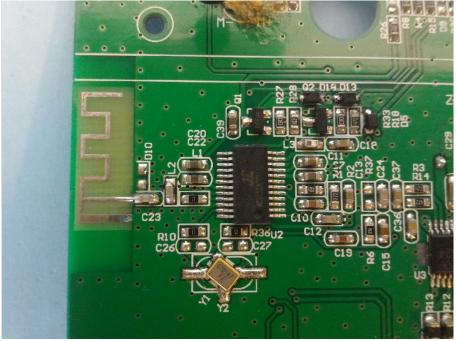




















# 9 Appendix B - Setup Photographs of EUT



20dB & 99% Bandwidth, Peak Output Power,
Spurious Emissions at Antenna Terminals,
100kHz Bandwidth of band edges, Min. No. of Hopping Frequencies,

Min. Hopping Channel Carrier Frequency Separation, Average Time of Occupancy



### 10 Appendix C - General Product Information

#### Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as

#### Step a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz, the test separation distance is ≤ 50mm. (Manufacturer specified the separation distance is: 5mm)

#### Step a)

- >> Numeric threshold (2402MHz), mW / 5mm \*  $\sqrt{2.402}$ GHz  $\leq 3.0$  Numeric threshold (2402MHz)  $\leq 9.678$ mW
- >> Numeric threshold (2440MHz), mW / 5mm \*  $\sqrt{2.441}$ GHz  $\leq 3.0$  Numeric threshold (2440MHz)  $\leq 9.601$ mW
- >> Numeric threshold (2480MHz), mW / 5mm \*  $\sqrt{2.480}$ GHz  $\leq 3.0$  Numeric threshold (2480MHz)  $\leq 9.525$ mW
- >> The power of EUT measured (2402MHz) is: -6.22dBm = 0.239mW
  The power of EUT measured (2440MHz) is: -6.05dBm = 0.248mW
  The power of EUT measured (2480MHz) is: -5.87dBm = 0.259mW
  Which is smaller than the Numeric threshold.
  Therefore, the device is exempt from stand-alone SAR test requirements.



#### Appendix C



LIDL US LLC. 3500 S Clark Street, Arlington, VA 22202

To: TÜV SÜD HKG Ltd.

Attention: Mr. Edmond Fung

From: **David Matter** Date: April 12, 2017

Fax No: Total Page (Cover Included): 1

**Declaration Letter** 

Subject:

We:

Officially notify TÜV SÜD HKG Ltd. that the <<Additional Model>> have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with <<PRODUCT>>, <<Main Test Model>>. The difference lies only on different color of the different models.

<<Additional Model >>: HG02429B

<<Main Test Model >>: HG02429A

<< Product>>: Bluetooth Speaker

Applicant:

04/12/2017

(Date)



(Applicant's authorized signature and company Chop)

file: declaration letter-template

Page 1 of 1