

FCC - TEST REPORT

Report Number : **60.792.17.003.01R01** Date of Issue : March 6, 2017

Model : **HG00552A, HG00552B, HG00552C, HG00552D**

Product Type : **Bluetooth Selfie Stick**

Applicant : Lidl US Trading, LLC

Address : 3500 S. Clark Street Arlington, Virginia, 22202

Production Facility : 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 Selfie Stick
Model no.:	HG00552A, HG00552B, HG00552C, HG00552D
FCC ID:	2AJ9O-HG552
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



3 Summary of Test Standards

Test Standards

FCC Part 15 Subpart C 10-1-15 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 15.207 Conduct 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 Separation	Site 2
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

Conducted emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	15-July-17
LISN	Rohde & Schwarz	ENV4200	100249	15-July-17
LISN	Rohde & Schwarz	ENV216	100326	15-July-17
ISN	Rohde & Schwarz	ENY81	100177	15-July-17
ISN	Rohde & Schwarz	ENY81-CAT6	101664	15-July-17
High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-58	15-July-17
RF Current Probe	Rohde & Schwarz	EZ-17	100816	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
Uncertainty for Conducted Emission 150kHz-30MHz	3.50dB

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart C				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	10-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.207 Conduct Emission	16-17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	18-20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(b) Peak Output Power	21-23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	24-26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	27-30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(a)(1) Min. No. of Hopping Frequencies	31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(a)(1) Min. of Hopping Channel Carrier Frequency Separation	32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy	33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6 General Remarks

Remarks

Client informs that the HG00552A and HG00552D have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with Bluetooth Selfie Stick, HG00552B and HG00552C. 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: HG00552B and HG00552C.

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.

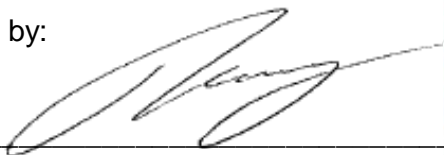
Sample Received Date: January 17, 2017

Testing Start Date: January 18, 2017

Testing End Date: March 6, 2017

- TÜV SÜD HONG KONG LTD. -

Reviewed by:



TSENG Chi Kit
EMC Project Engineer



Prepared by:



CHAN Kwan Ho Alex
EMC Project Engineer

7 Emission Test Results

7.1 Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.108	32.05	40	-7.95	Quasi Peak
176.541	34.15	43.5	-9.35	Quasi Peak
232.783	33.88	46	-12.12	Quasi Peak
528.680	36.79	46	-9.21	Quasi Peak
1004.330	39.75	74	-34.25	Peak
1004.330	30.22	54	-23.78	Average
1597.115	46.55	74	-27.45	Peak
1597.115	37.08	54	-16.92	Average
4804.000	42.72	74	-31.28	Peak
4804.000	33.68	54	-20.32	Average
7206.000	45.85	74	-28.15	Peak
7206.000	37.53	54	-16.47	Average
12010.000	48.95	74	-25.05	Peak
12010.000	40.21	54	-13.79	Average

Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.108	32.51	40	-7.49	Quasi Peak
176.541	34.68	43.5	-8.82	Quasi Peak
232.783	37.05	46	-8.95	Quasi Peak
528.680	35.59	46	-10.41	Quasi Peak
1004.330	40.66	74	-33.34	Peak
1004.330	31.28	54	-22.72	Average
1597.115	42.63	74	-31.37	Peak
1597.115	33.55	54	-20.45	Average
4804.000	45.79	74	-28.21	Peak
4804.000	36.85	54	-17.15	Average
7206.000	41.04	74	-32.96	Peak
7206.000	32.18	54	-21.82	Average
12010.000	43.36	74	-30.64	Peak
12010.000	34.38	54	-19.62	Average

Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2441MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.660	32.62	40	-7.38	Quasi Peak
175.482	33.58	43.5	-9.92	Quasi Peak
230.155	34.95	46	-11.05	Quasi Peak
528.795	32.84	46	-13.16	Quasi Peak
1197.000	42.15	74	-31.85	Peak
1197.000	33.86	54	-20.14	Average
1625.210	40.61	74	-33.39	Peak
1625.210	32.02	54	-21.98	Average
4882.025	43.64	74	-30.36	Peak
4882.025	35.17	54	-18.83	Average
7323.705	44.68	74	-29.32	Peak
7323.705	35.78	54	-18.22	Average
12205.210	46.90	74	-27.10	Peak
12205.210	38.55	54	-15.45	Average

Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2441MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.660	32.11	40	-7.89	Quasi Peak
175.482	33.09	43.5	-10.41	Quasi Peak
230.155	34.25	46	-11.75	Quasi Peak
528.795	32.84	46	-13.16	Quasi Peak
1197.000	42.19	74	-31.81	Peak
1197.000	34.05	54	-19.95	Average
1625.210	44.68	74	-29.32	Peak
1625.210	35.82	54	-18.18	Average
4882.025	42.93	74	-31.07	Peak
4882.025	35.07	54	-18.93	Average
7323.705	45.48	74	-28.52	Peak
7323.705	37.08	54	-16.92	Average
12205.210	48.67	74	-25.33	Peak
12205.210	39.55	54	-14.45	Average

Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
60.055	32.88	40	-7.12	Quasi Peak
175.550	33.95	43.5	-9.55	Quasi Peak
231.075	31.33	46	-14.67	Quasi Peak
530.005	32.76	46	-13.24	Quasi Peak
1202.005	41.91	74	-32.09	Peak
1202.005	32.55	54	-21.45	Average
1595.625	44.68	74	-29.32	Peak
1595.625	35.78	54	-18.22	Average
4880.156	45.84	74	-28.16	Peak
4880.156	37.25	54	-16.75	Average
7439.065	44.79	74	-29.21	Peak
7439.065	35.62	54	-18.38	Average
12400.450	47.28	74	-26.72	Peak
12400.450	39.02	54	-14.98	Average

Spurious Radiated Emission

EUT: HG00552C
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.7VDC
 Remark: 9kHz to 25GHz

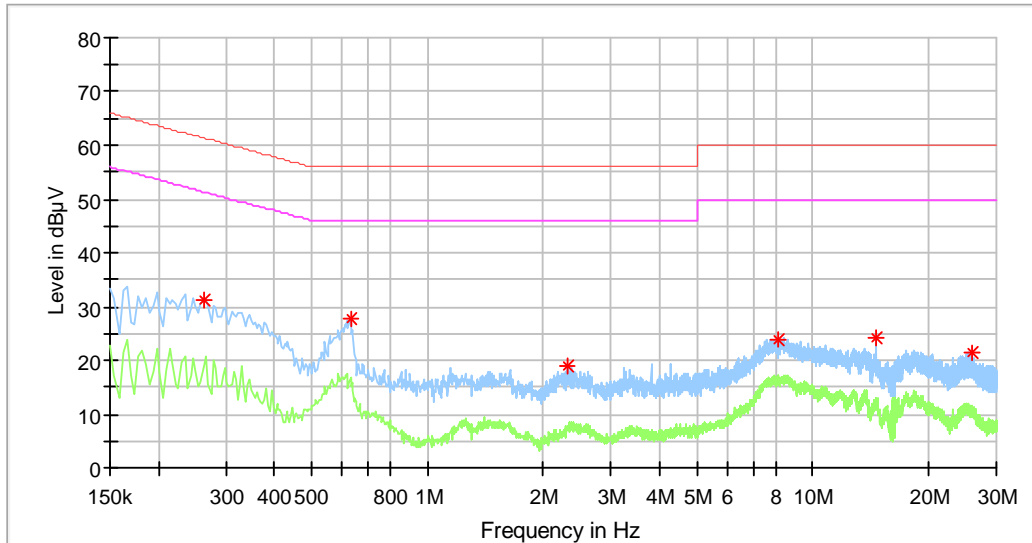
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
60.055	31.22	40	-8.78	Quasi Peak
175.550	32.94	43.5	-10.56	Quasi Peak
231.075	33.61	46	-12.39	Quasi Peak
530.005	32.87	46	-13.13	Quasi Peak
1202.005	40.88	74	-33.12	Peak
1202.005	31.19	54	-22.81	Average
1595.625	46.81	74	-27.19	Peak
1595.625	37.11	54	-16.89	Average
4880.156	40.68	74	-33.32	Peak
4880.156	31.55	54	-22.45	Average
7527.185	46.80	74	-27.20	Peak
7527.185	38.51	54	-15.49	Average
12400.450	47.14	74	-26.86	Peak
12400.450	39.93	54	-14.07	Average

7.2 Conducted Emission

EUT: HG00552C
 Op Condition: Normal Link
 Test Specification: AC Mains, L Line
 Comment: 120VAC, 60Hz (From external adaptor)

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

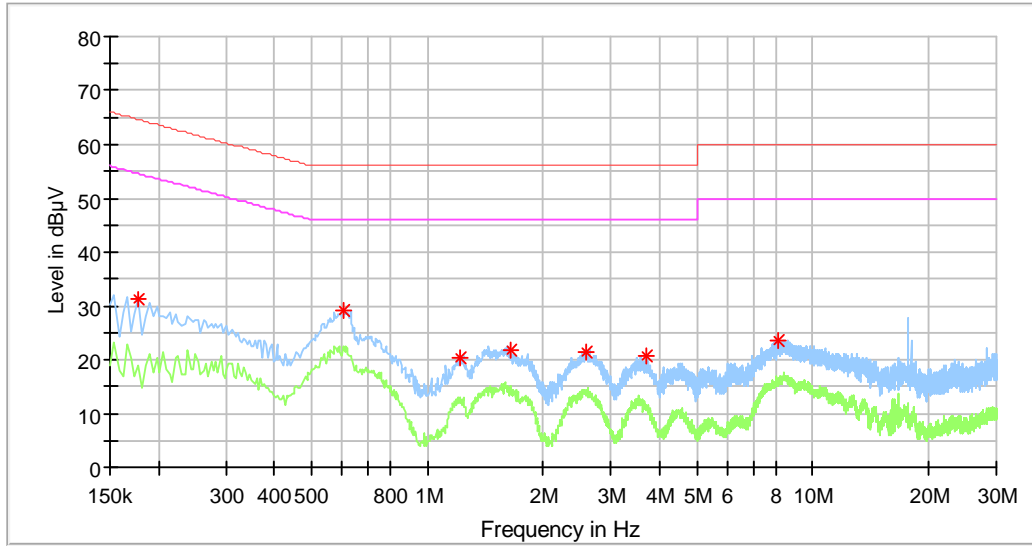


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)
0.262000	31.29	---	61.37	-30.08
0.630000	27.66	---	56.00	-28.34
2.318000	19.03	---	56.00	-36.97
8.150000	23.85	---	60.00	-36.15
14.618000	24.08	---	60.00	-35.92
25.842000	21.31	---	60.00	-38.69

Conducted Emission

EUT: HG00552C
 Op Condition: Normal Link
 Test Specification: AC Mains, N Line
 Comment: 120VAC, 60Hz (From external adaptor)

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

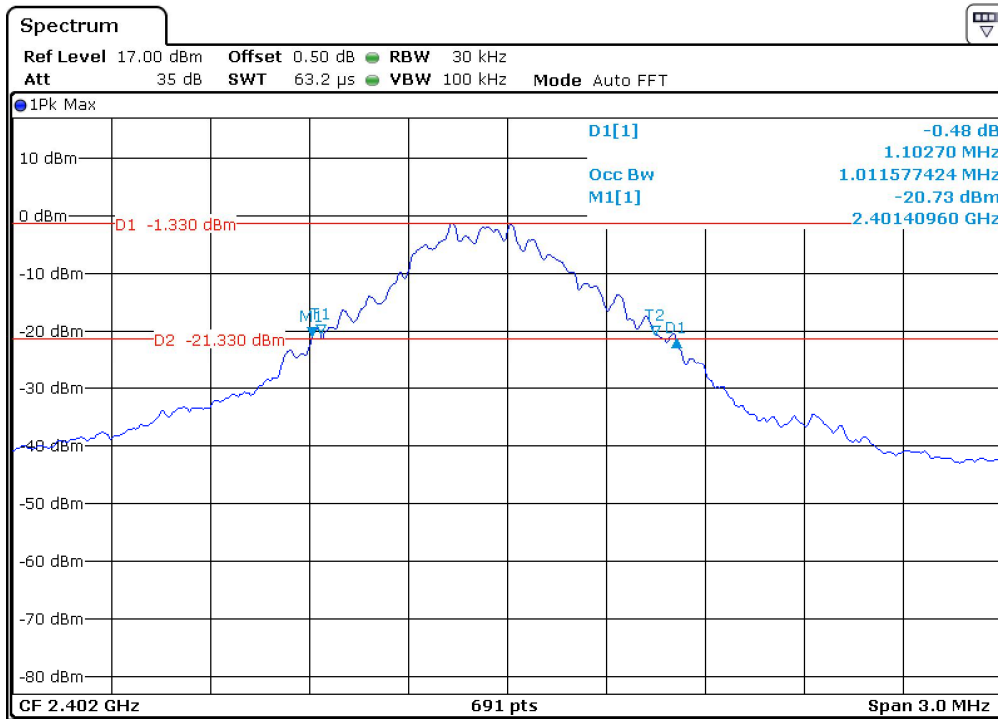


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)
0.178000	31.17	---	64.58	-33.41
0.606000	29.22	---	56.00	-26.78
1.222000	20.29	---	56.00	-35.71
1.642000	21.74	---	56.00	-34.26
2.594000	21.52	---	56.00	-34.48
3.722000	20.67	---	56.00	-35.33
8.134000	23.40	---	60.00	-36.60

7.3 20dB & 99% Bandwidth

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

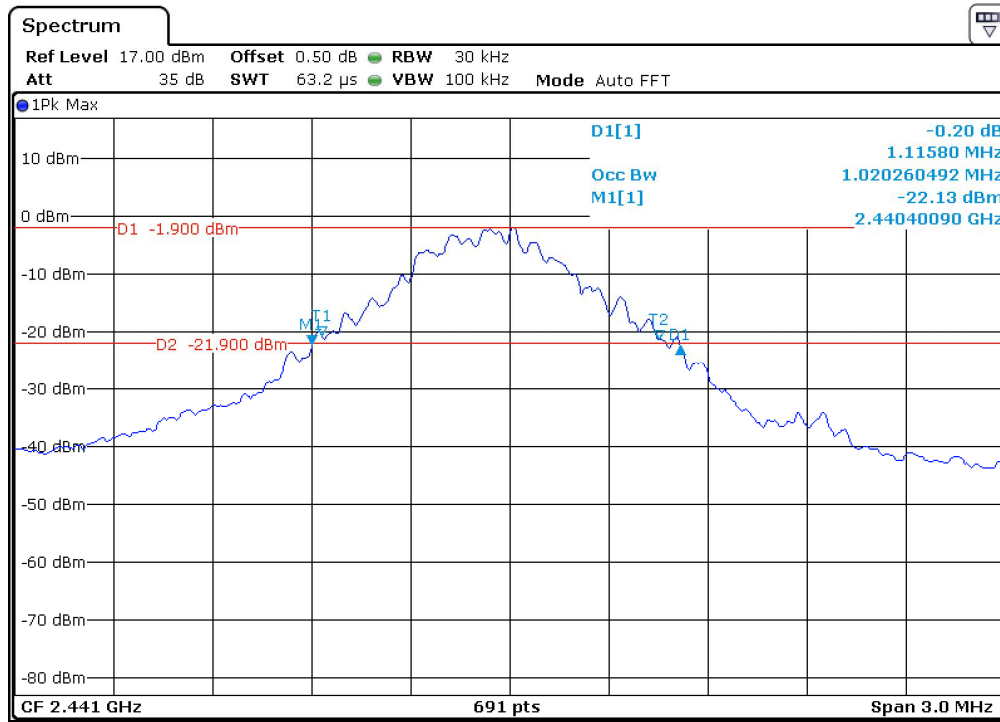


20dB bandwidth	99% bandwidth
1102.700 kHz	1011.577 kHz

20dB & 99% Bandwidth

EUT: HG00552B
 Op Condition: Operated, TX Mode (2441MHz)
 Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

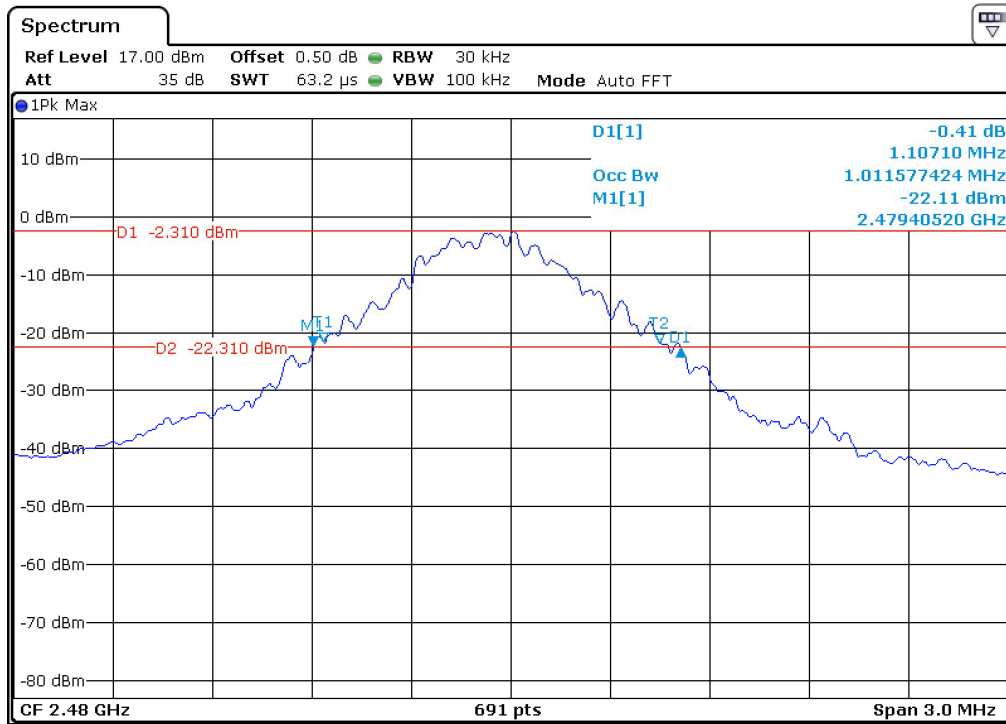


20dB bandwidth	99% bandwidth
1115.800 kHz	1020.260 kHz

20dB & 99% Bandwidth

EUT: HG00552B
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 20dB Bandwidth & 99% Bandwidth
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

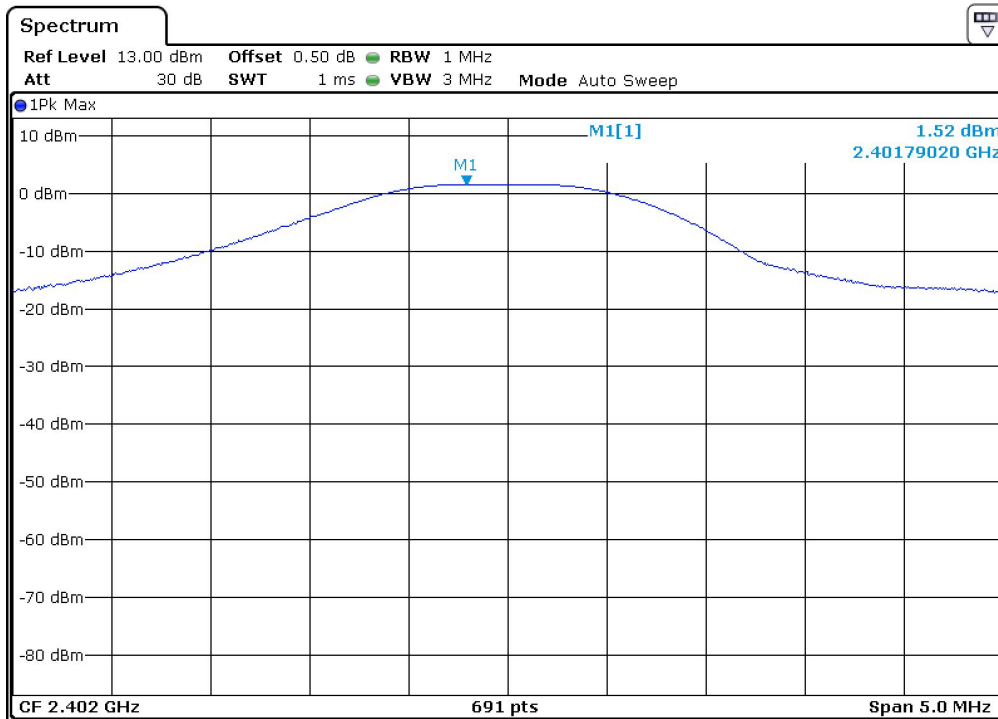


20dB bandwidth	99% bandwidth
1107.100 kHz	1011.577 kHz

7.4 Peak Output Power

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

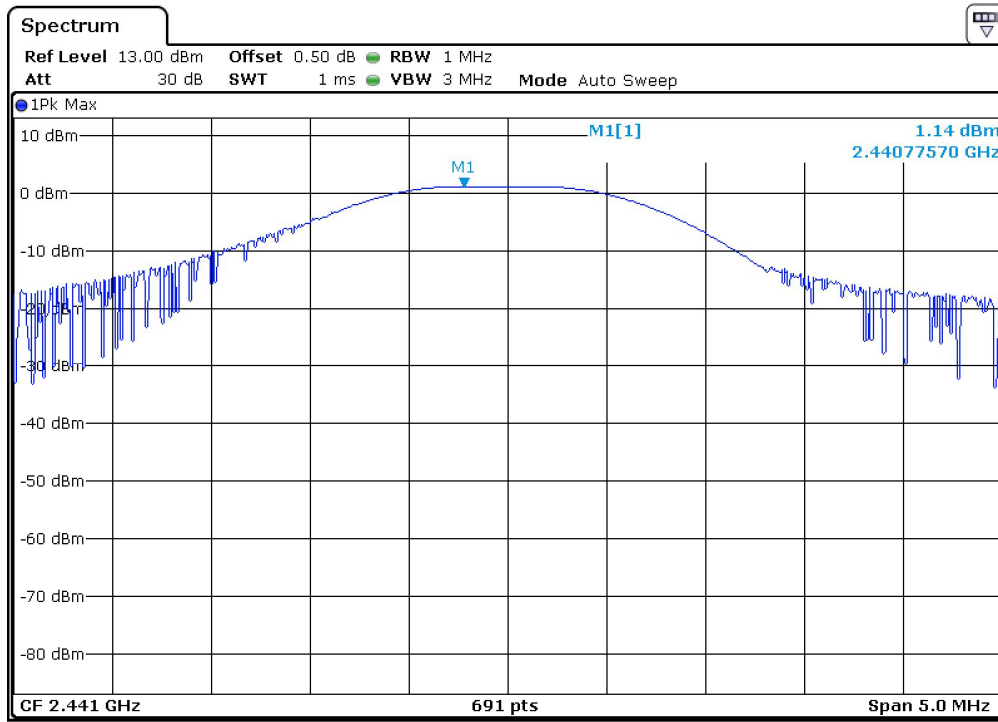


Conducted Output Power (dBm)	Conducted Output Power (mW)	Limit (mW)
1.52	1.419	125.0

Peak Output Power

EUT: HG00552B
 Op Condition: Operated, TX Mode (2441MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

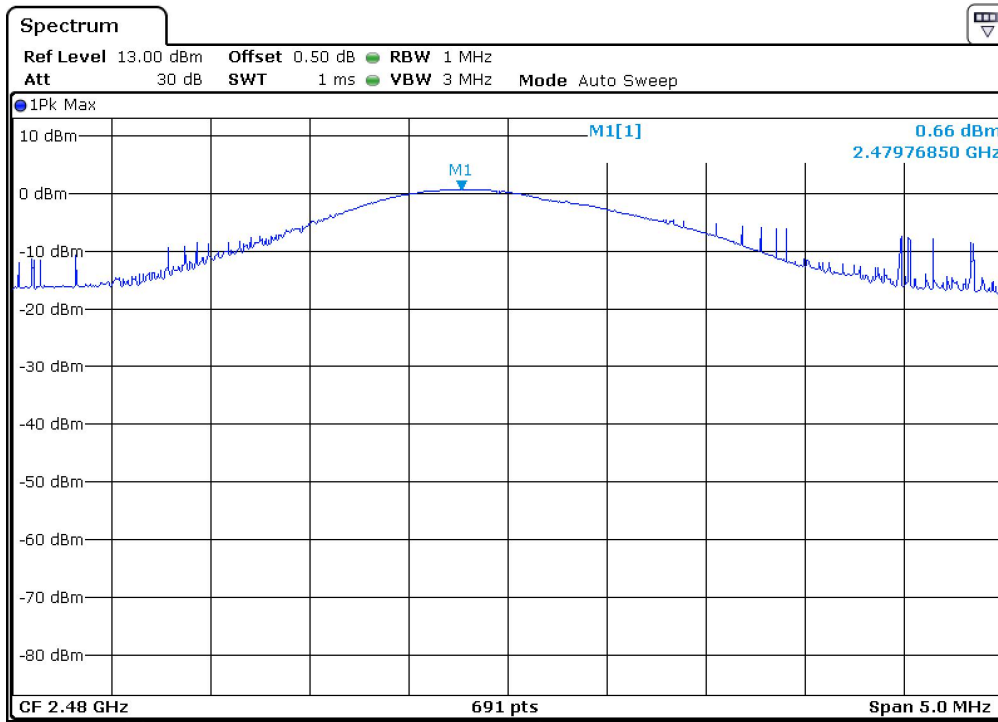


Conducted Output Power (dBm)	Conducted Output Power (mW)	Limit (mW)
1.14	1.300	125.0

Peak Output Power

EUT: HG00552B
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.7VDC, Antenna gain: 0 dBi, Cable Loss: 0.5dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

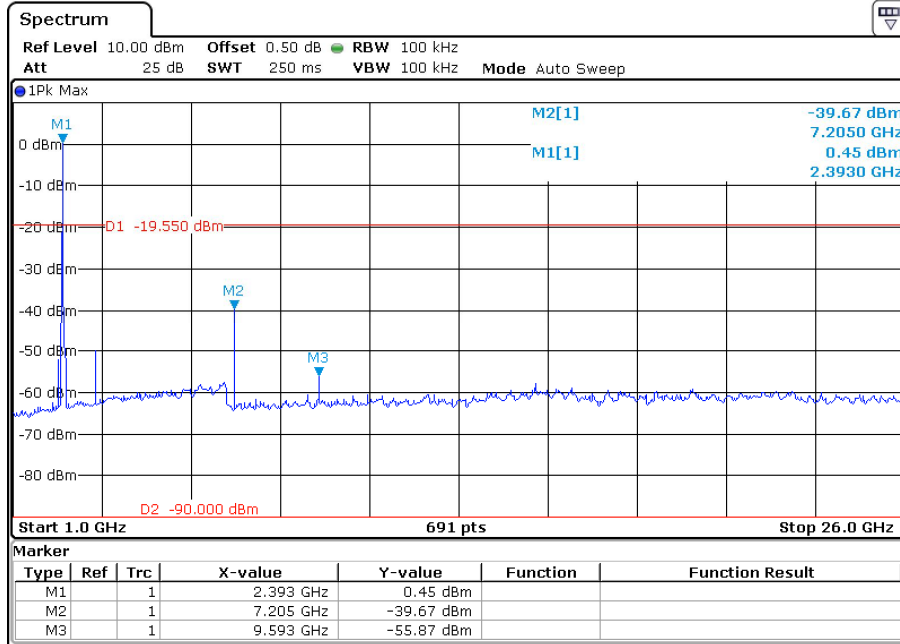
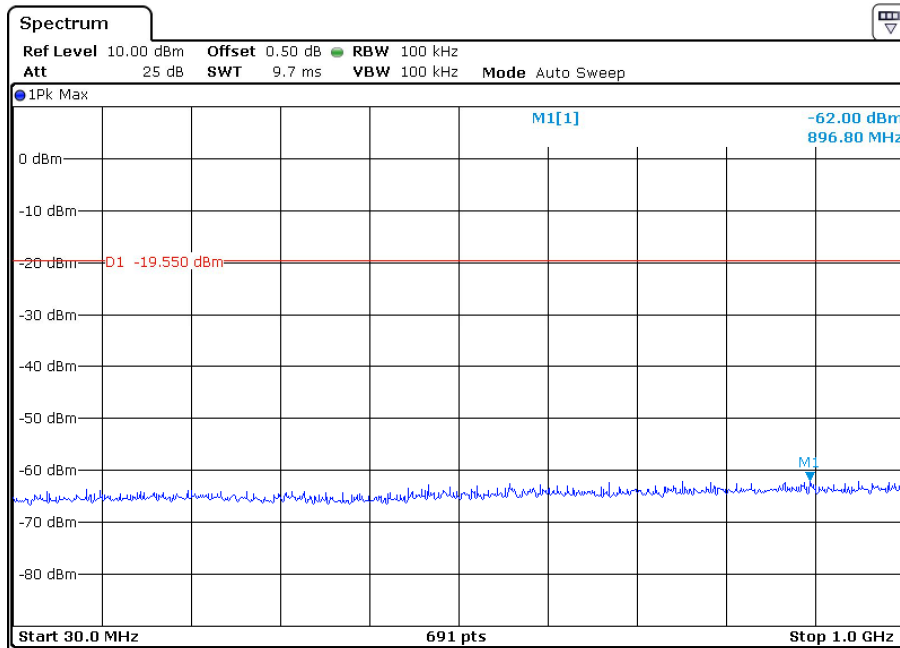


Conducted Output Power (dBm)	Conducted Output Power (mW)	Limit (mW)
0.66	1.164	125.0

7.5 Spurious Emissions at Antenna Terminals

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

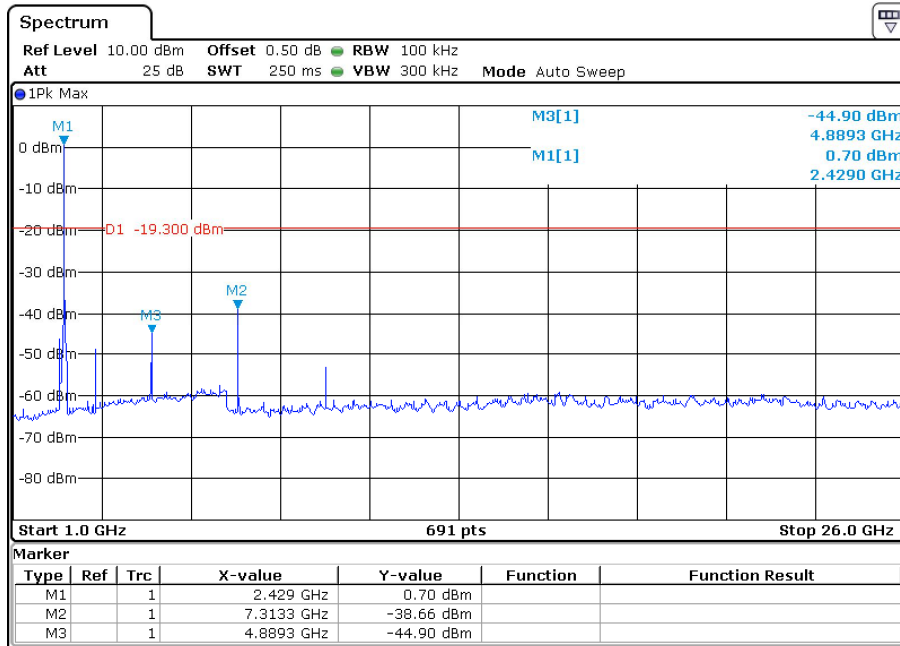
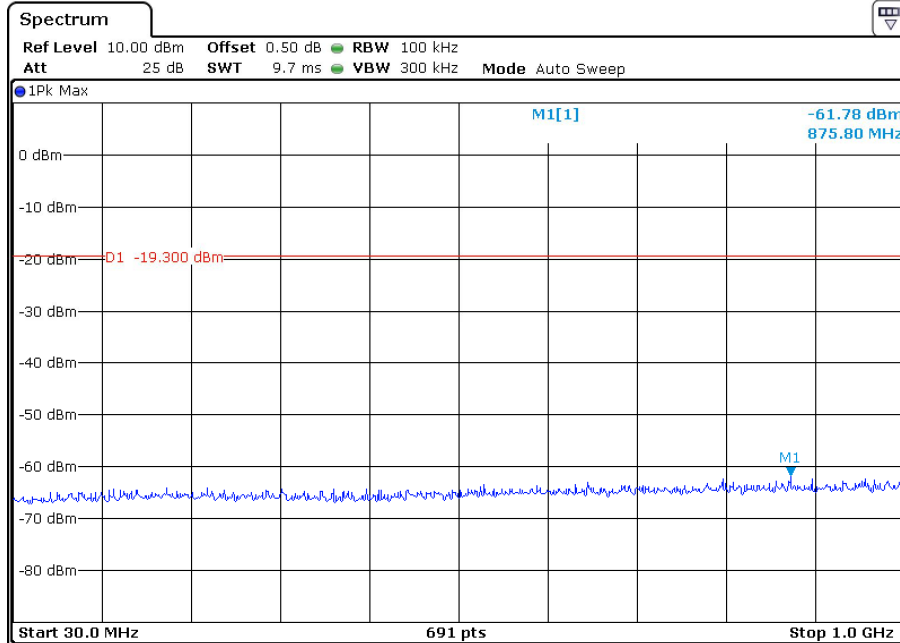


Limit: 20dB below the highest level of the desired power in the passband

Spurious Emissions at Antenna Terminals

EUT: HG00552B
 Op Condition: Operated, TX Mode (2441MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

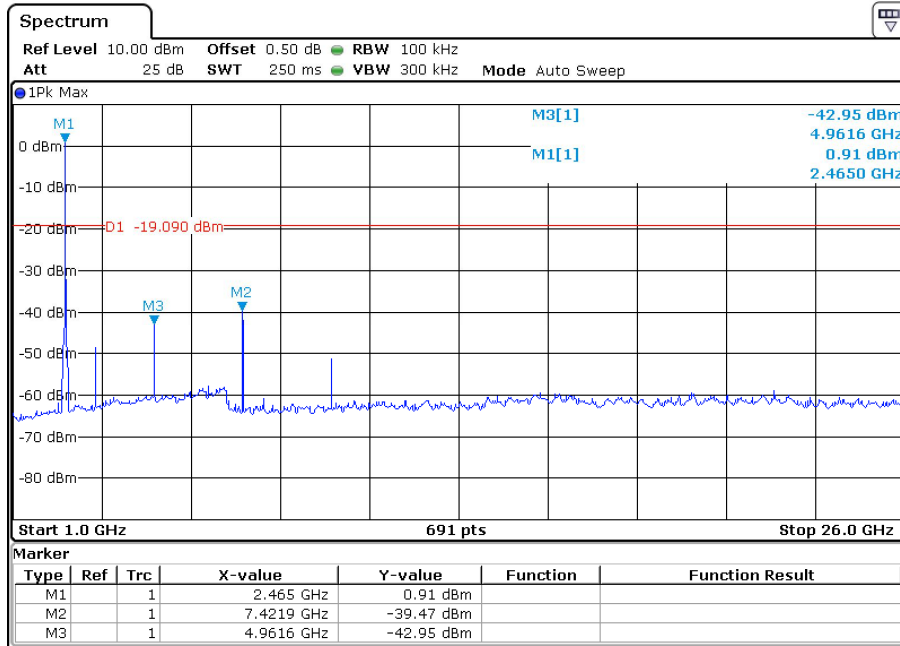
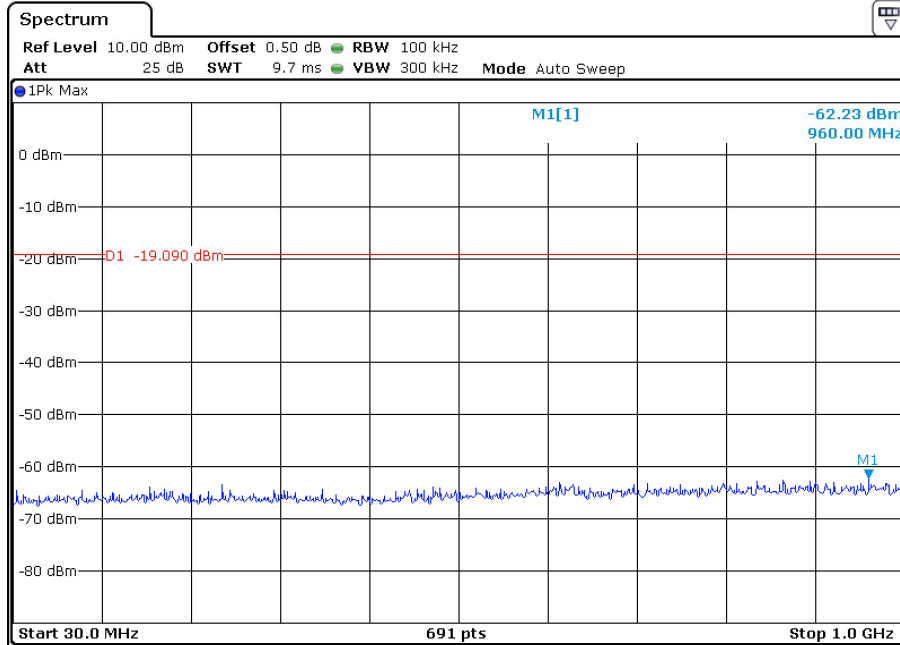


Limit: 20dB below the highest level of the desired power in the passband

Spurious Emissions at Antenna Terminals

EUT: HG00552B
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

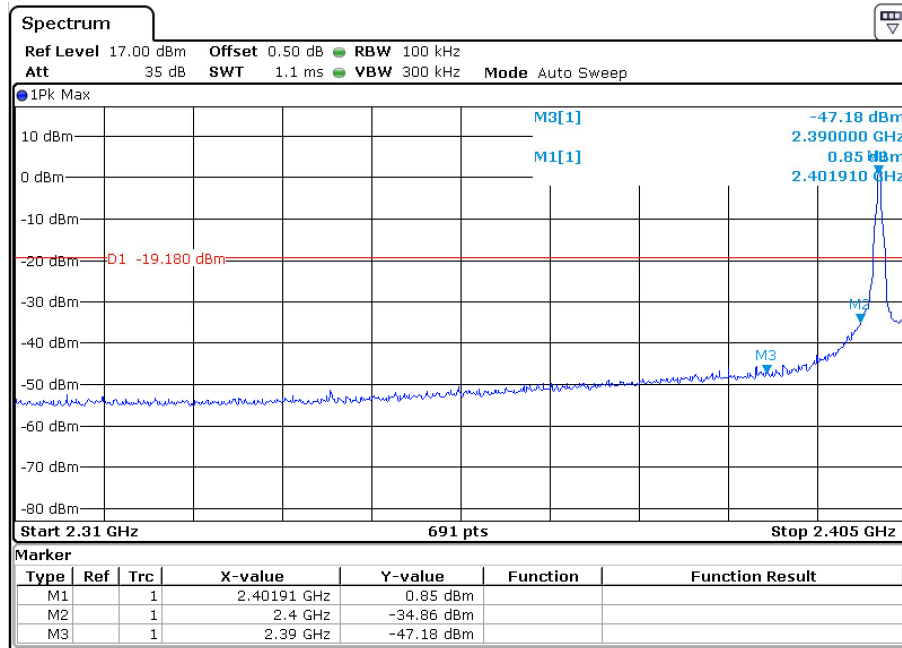


Limit: 20dB below the highest level of the desired power in the passband

7.6 100kHz Bandwidth of band edges

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Band edges	Limit
35.71 dB	> 20dB

100kHz Bandwidth of band edges

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 3.7VDC

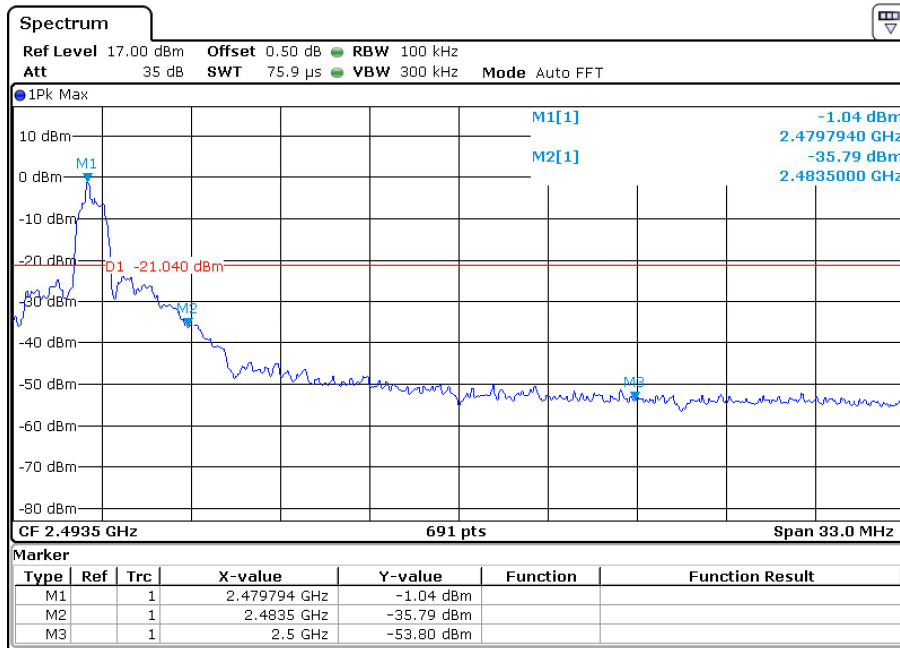
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
2390.000	48.12	74	-25.88	Peak
2390.000	37.23	54	-16.77	Average

100kHz Bandwidth of band edges

EUT: HG00552B
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Band edges	Limit
34.75 dB	> 20dB

100kHz Bandwidth of band edges

EUT: HG00552B
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 3.7VDC

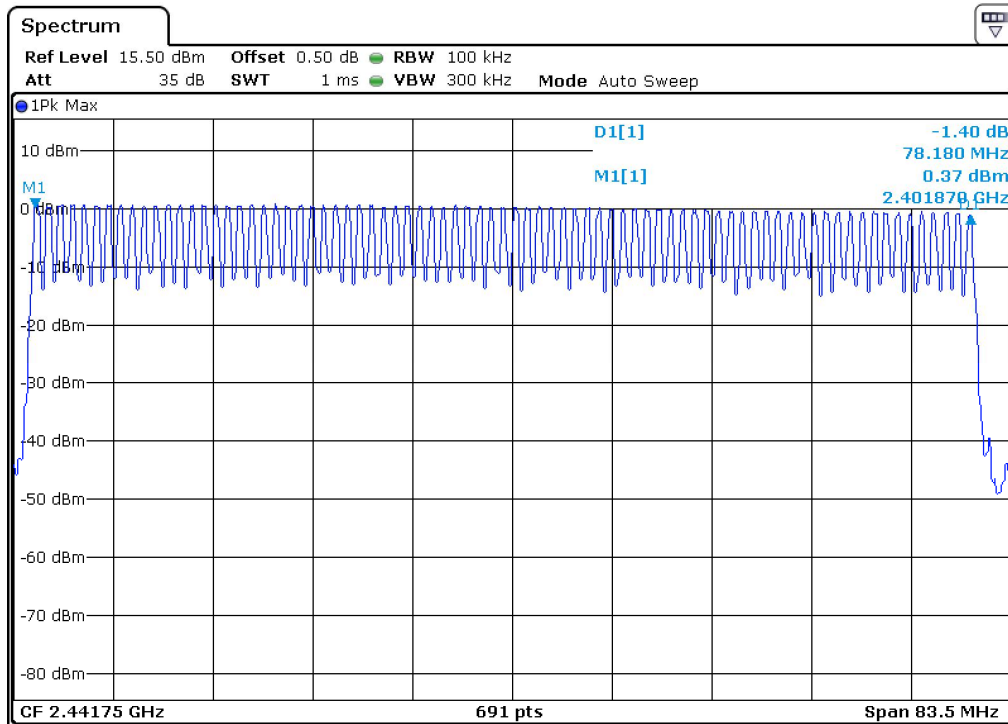
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
2483.500	59.38	74	-14.62	Peak
2483.500	47.82	54	-6.18	Average

7.7 Minimum. Number of Hopping Frequencies

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402-2480MHz)
 Test Specification: FCC15.247(a)(1)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

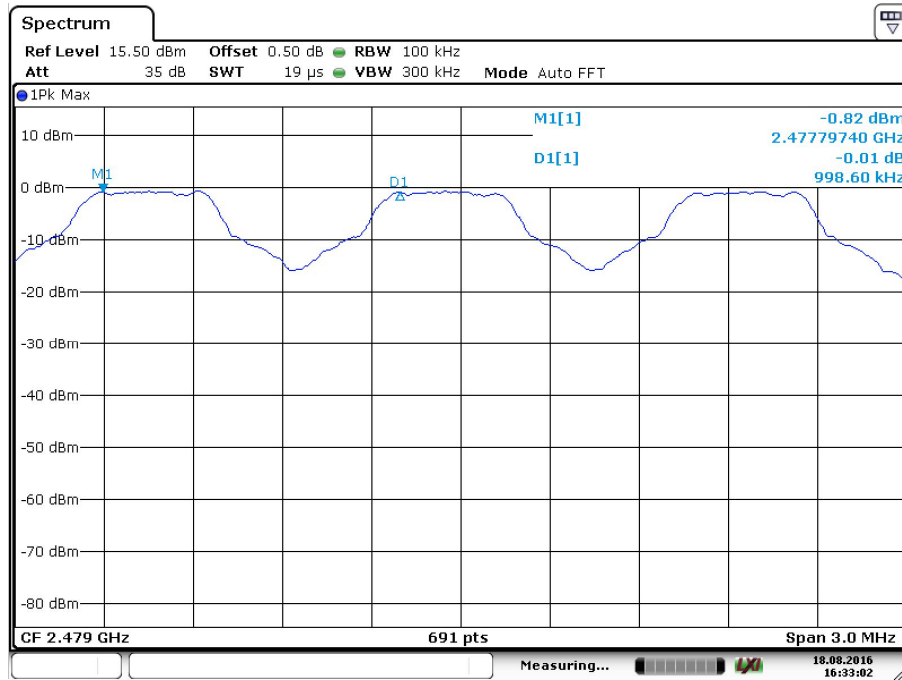


Hopping Channels	Limit
79	≥ 15

7.8 Minimum Hopping Channel Carrier Frequency Separation

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402-2480MHz)
 Test Specification: FCC15.247(a)(1)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



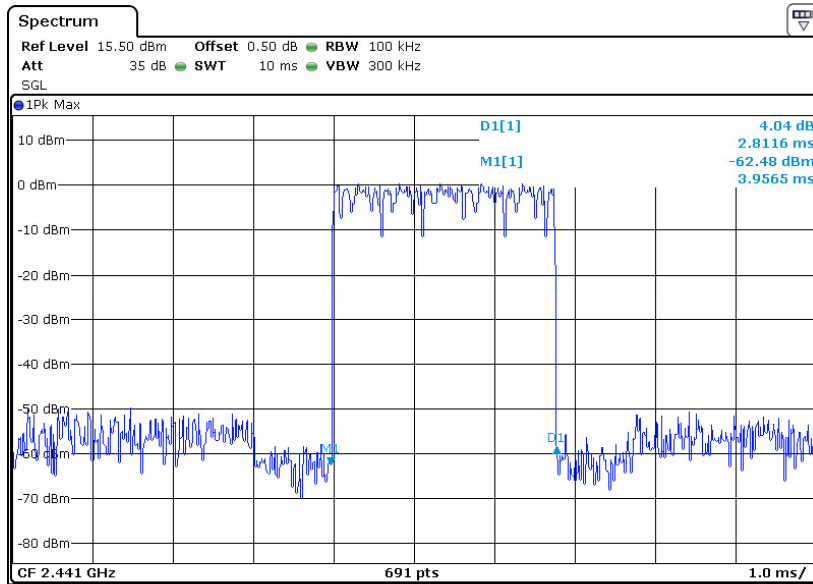
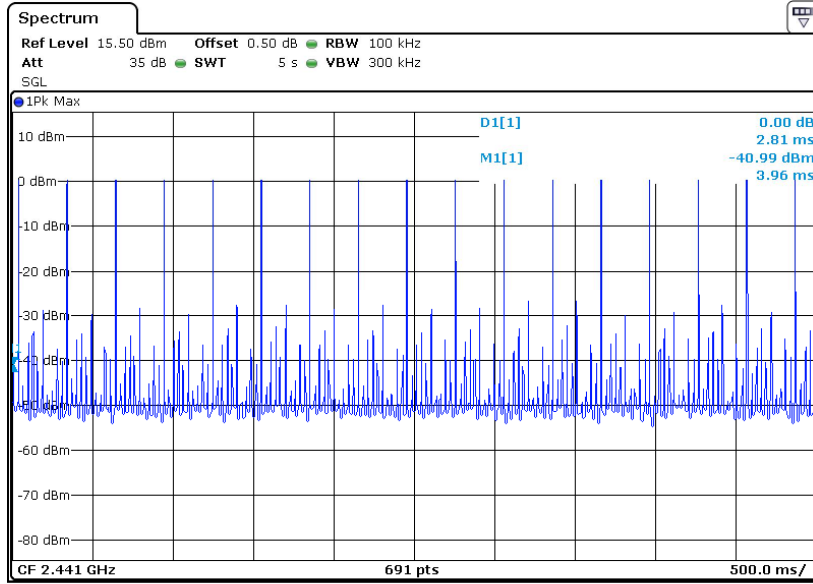
Chanel Separation	Limit
998.600 kHz	743.867 kHz

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

7.9 Average Channel Occupancy Time

EUT: HG00552B
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(1)
 Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Average time of occupancy	Limit
Number of hops in 5 sec.: 17 Period: 0.4 x 79 Ch. = 31.6 sec. Total number of hops in 31.6 sec.: (17/5)*31.6=108 Time of single pulse: 2.8116 ms Average time of occupancy: 2.8116 ms x 108 = 0.3037 sec.	0.4 Seconds

7.10 Antenna Requirement

EUT: HG00552B
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3.7VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	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.

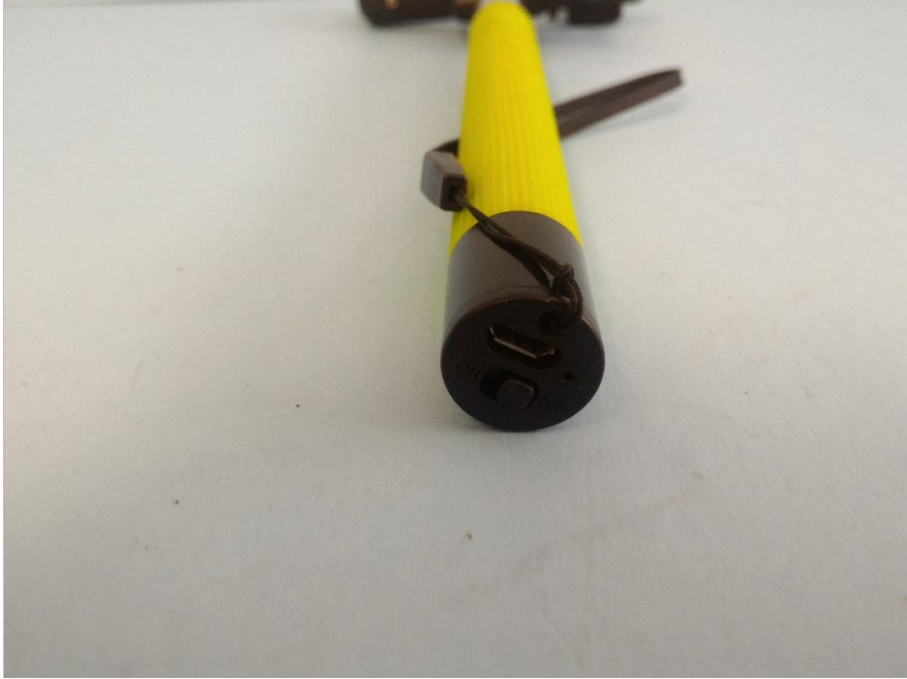
Antenna Connector Construction

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

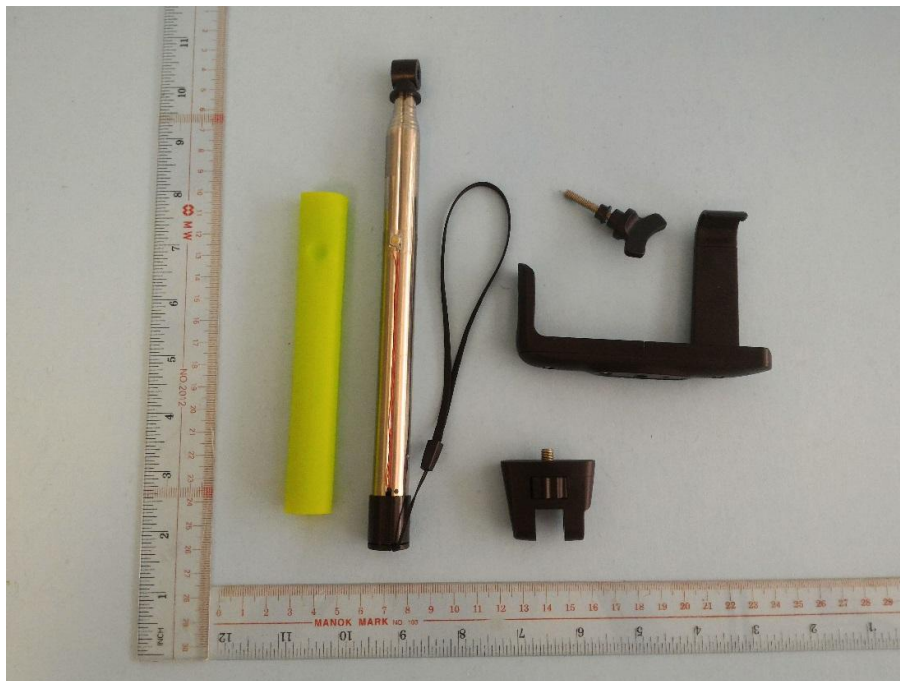
8 Appendix A - Photographs of EUT



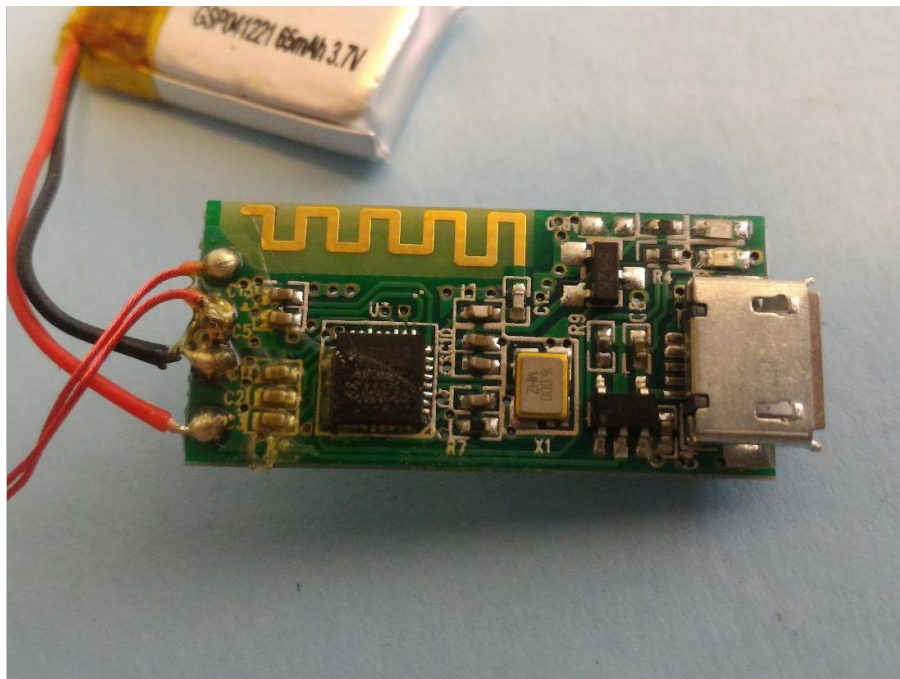
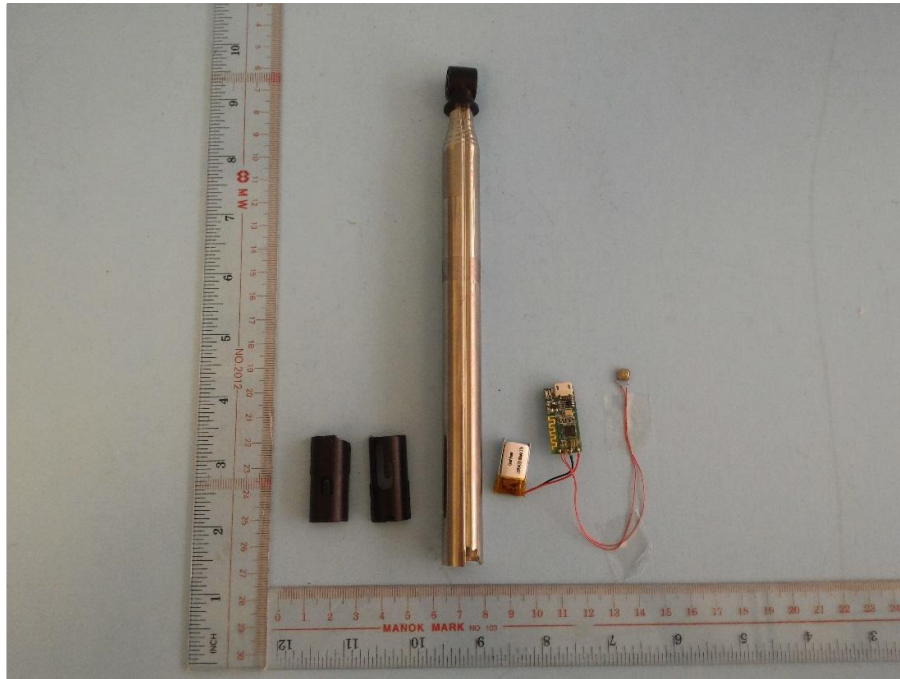
Appendix A



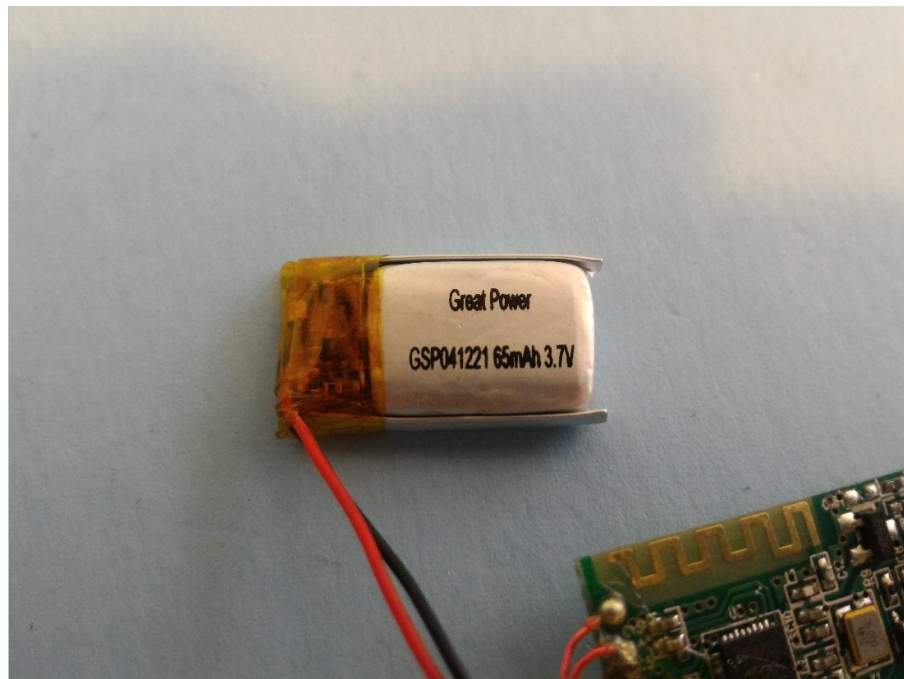
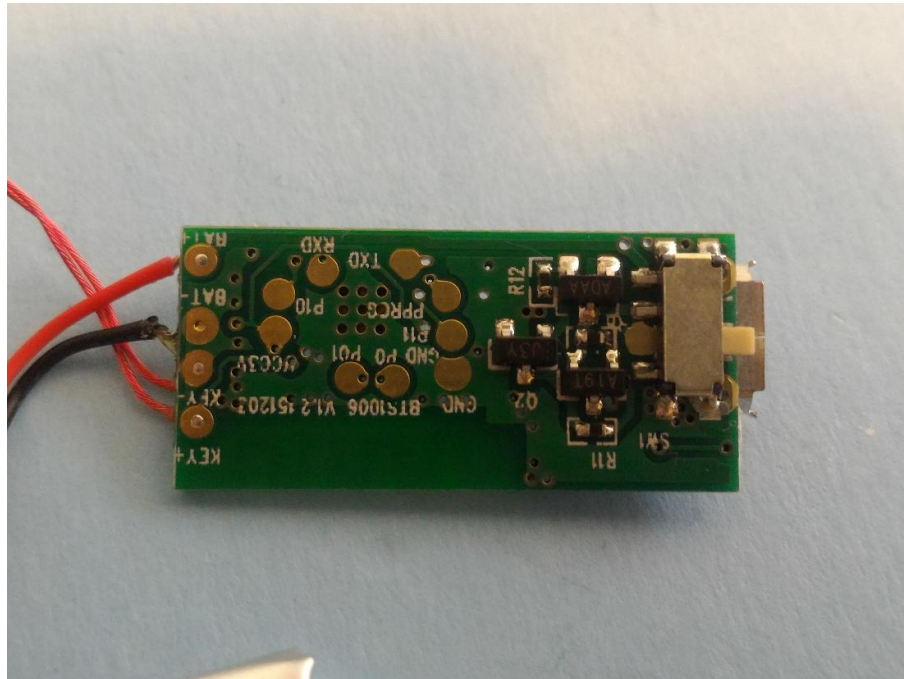
Appendix A



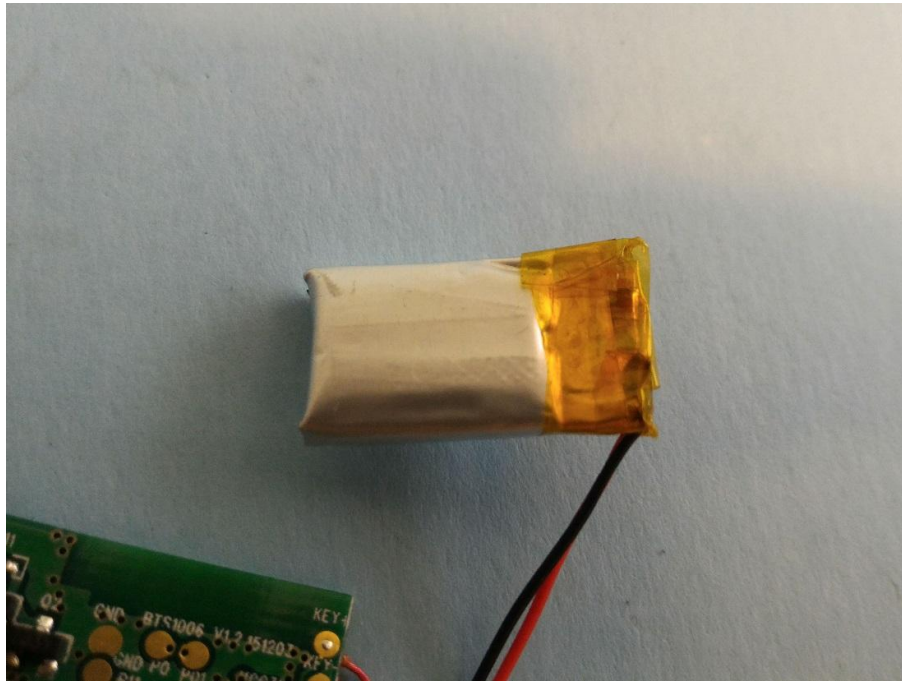
Appendix A



Appendix A

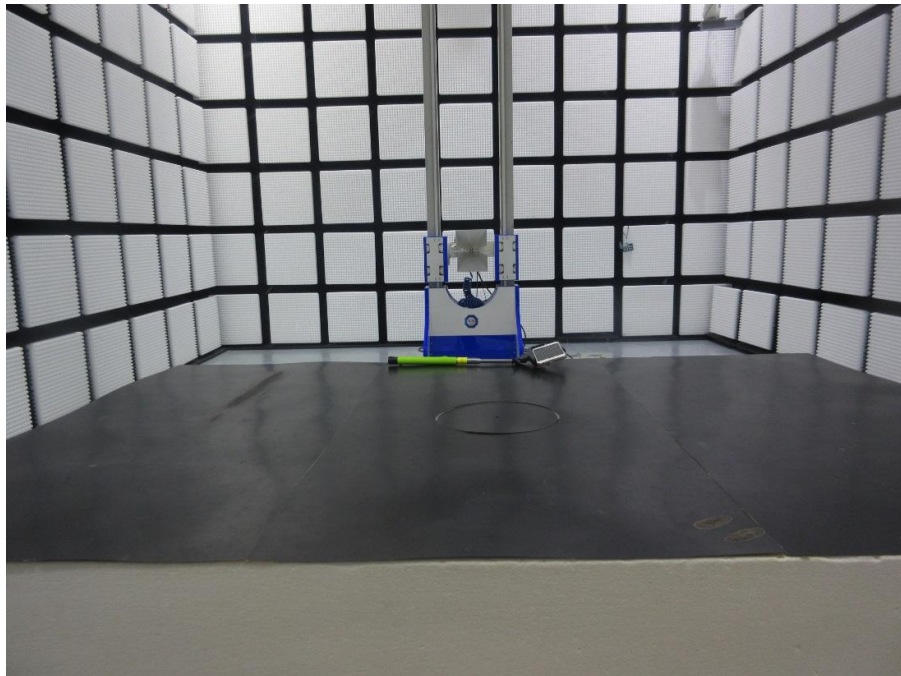
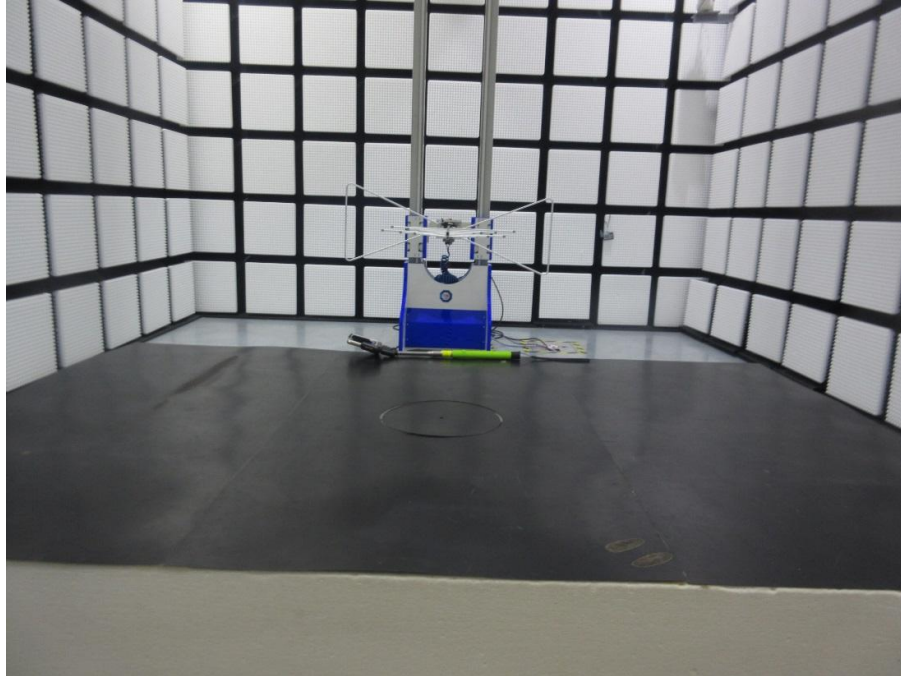


Appendix A



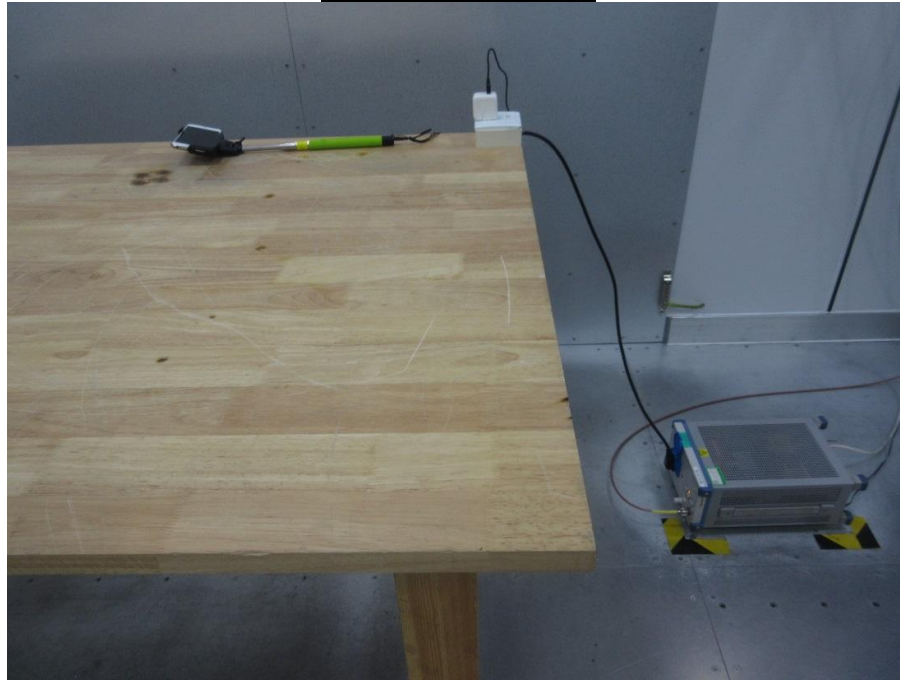
9 Appendix B - Setup Photographs of EUT

Spurious Radiated Emission



Appendix B

Conducted Emission



**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)

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

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

Step a)

>> Numeric threshold (2402MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2402MHz) $\leq 9.678\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.441\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 9.601\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 9.525\text{mW}$

>> The power of EUT measured (2402MHz) is: 1.52dBm = 1.419mW
The power of EUT measured (2440MHz) is: 1.14dBm = 1.300mW
The power of EUT measured (2480MHz) is: 0.66dBm = 1.164mW
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: Date: March 8, 2017

Fax No: Total Page (Cover Included): 1

Declaration Letter

Subject: Declaration Letter for Model Number

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 >>: HG00552A, HG00552D

<<Main Test Model >>: HG00552B, HG00552C

<<Product>>: Bluetooth Selfie Stick

Applicant:

Matter David
(Date)
Chop)

Digitally signed by Matter David
DN: cn=Matter David, o=Matter, ou=Sr NF
Manager, email=david.matter@lidl.us, c=US
(Applicant's authorized signature and company
Date: 2017.03.08 09:52:05) company

LIDL US, LLC