

FCC - TEST REPORT

Report Number : **60.790.15.028.01R01** Date of Issue : October 26, 2015

Model : **HSTNW-D01W**

Product Type : **BLE WATCH**

Trade name : **MOVADO BOLD**

Applicant : DAYTON INDUSTRIAL CO., LTD

Address : 2-12 Kwai Fat Road, 11-A Kwai Chung, New Territories, Hong Kong

Production Facility : KENDY Enterprise Ltd

Address : 2-12 Kwai Fat Road, 11-A Kwai Chung, New Territories, Hong Kong

Test Result : ☒ **Positive** ☐ Negative

Total pages including Appendices : 47

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	BLE WATCH
Model no.:	HSTNW-D01W
Trade name :	MOVADO BOLD
FCC ID:	O4GMVBOLD
Rating:	1) For Bluetooth module: 3.6VDC (1 x 3.6VDC rechargeable button cell battery, Model: LIR2025) 2) For watch: 1.5VDC (1 x 1.5VDC button cell battery, Model:364)
Frequency:	2402MHz-2480MHz
Antenna gain:	0 dBi
Number of operated channel:	40
Modulation:	GFSK

3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart C 10-1-13 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 China Ltd.
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	NIL
FCC Title 47 Part 15.247(a)(2) 6dB & 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(e) Power Spectral Density	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	17-Aug-16
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	17-Aug-17
Horn Antenna	Rohde & Schwarz	HF907	102294	17-Aug-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	17-Aug-16
3m Semi-anechoic chamber	TDK	9X6X6	----	29-May-19

6dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	17-Aug-16
Signal Analyzer	Rohde & Schwarz	FSV40	101030	17-Aug-16
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	17-Aug-16
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	17-Aug-16

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

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	☒	☐	☐
FCC Title 47 Part 15.207 Conduct Emission	NIL	☐	☐	☒
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	16-21	☒	☐	☐
FCC Title 47 Part 15.247(b) Peak Output Power	22-24	☒	☐	☐
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	25-27	☒	☐	☐
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	28-31	☒	☐	☐
FCC Title 47 Part 15.247(e) Power Spectral Density	32-34	☒	☐	☐
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	35	☒	☐	☐

6 General Remarks

Remarks

NIL

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: September 1, 2015

Testing Start Date: September 2, 2015

Testing End Date: September 19, 2015

- TÜV SÜD HONG KONG LTD. -

Reviewed by:



TSENG Chi Kit
EMC Project Engineer



Prepared by:



CHAN Kwong Ngai
EMC Test Engineer

7 Emission Test Results

7.1 Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.846	19.32	43.5	-24.18	Quasi Peak
141.735	17.46	43.5	-26.04	Quasi Peak
165.228	18.73	43.5	-24.77	Quasi Peak
407.663	21.43	46	-24.57	Quasi Peak
418.982	22.00	46	-24.00	Quasi Peak
1595.500	29.53	74	-44.47	Peak
1595.500	27.52	54	-26.48	Average
2435.125	33.71	74	-40.29	Peak
2445.000	35.70	74	-38.30	Peak
4804.000	61.20	74	-12.80	Peak
4804.000	34.13	54	-19.87	Average
7205.500	55.12	74	-18.88	Peak
7205.500	37.82	54	-16.18	Average
9608.125	54.13	74	-19.87	Peak
9608.125	39.66	54	-14.34	Average

Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.700	19.43	43.5	-24.07	Quasi Peak
141.535	18.01	43.5	-25.49	Quasi Peak
164.980	19.31	43.5	-24.19	Quasi Peak
408.125	22.05	46	-23.95	Quasi Peak
417.960	22.43	46	-23.57	Quasi Peak
1595.500	30.03	74	-43.97	Peak
1595.500	28.66	54	-25.34	Average
2435.250	34.05	74	-39.95	Peak
2445.150	34.73	74	-39.27	Peak
4804.000	60.58	74	-13.42	Peak
4804.000	33.85	54	-20.15	Average
7205.500	54.65	74	-19.35	Peak
7205.500	37.20	54	-16.80	Average
9608.125	53.88	74	-20.12	Peak
9608.125	39.06	54	-14.94	Average

Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result

☒ Passed
☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.846	19.32	43.5	-24.18	Quasi Peak
141.735	17.46	43.5	-26.04	Quasi Peak
165.228	18.73	43.5	-24.77	Quasi Peak
407.663	21.43	46	-24.57	Quasi Peak
418.982	22.00	46	-24.00	Quasi Peak
1086.000	28.72	74	-45.28	Peak
1595.500	31.85	74	-42.15	Peak
1595.500	28.49	54	-25.51	Average
2424.000	33.52	74	-40.48	Peak
2464.000	36.57	74	-37.43	Peak
4880.500	61.42	74	-12.58	Peak
4880.500	35.04	54	-18.96	Average
7320.000	52.73	74	-21.27	Peak
7320.000	37.13	54	-16.87	Average
9760.000	49.80	74	-24.20	Peak
9760.000	39.42	54	-14.58	Average

Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result

☒ Passed
☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.700	19.43	43.5	-24.07	Quasi Peak
141.535	18.01	43.5	-25.49	Quasi Peak
164.980	19.31	43.5	-24.19	Quasi Peak
408.125	22.05	46	-23.95	Quasi Peak
417.960	22.43	46	-23.57	Quasi Peak
1085.472	28.53	74	-45.47	Peak
1595.500	30.86	74	-43.14	Peak
1595.500	28.23	54	-25.77	Average
2423.500	32.88	74	-41.12	Peak
2464.000	35.45	74	-38.55	Peak
4880.500	60.98	74	-13.02	Peak
4880.500	34.67	54	-19.33	Average
7320.000	49.73	74	-24.27	Peak
7320.000	36.62	54	-17.38	Average
9760.000	47.52	74	-26.48	Peak
9760.000	38.15	54	-15.85	Average

Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result

☒ Passed
☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.846	19.32	43.5	-24.18	Quasi Peak
141.735	17.46	43.5	-26.04	Quasi Peak
165.228	18.73	43.5	-24.77	Quasi Peak
407.663	21.43	46	-24.57	Quasi Peak
418.982	22.00	46	-24.00	Quasi Peak
1597.500	29.64	74	-44.36	Peak
1597.500	27.17	54	-26.83	Average
4960.075	60.58	74	-13.42	Peak
4960.075	35.02	54	-18.98	Average
7440.350	47.43	74	-26.57	Peak
7440.350	36.88	54	-17.12	Average
9920.150	46.69	74	-27.31	Peak
9920.150	39.37	54	-14.63	Average

Spurious Radiated Emission

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

Test Result

☒ Passed
☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
120.700	19.43	43.5	-24.07	Quasi Peak
141.535	18.01	43.5	-25.49	Quasi Peak
164.980	19.31	43.5	-24.19	Quasi Peak
408.125	22.05	46	-23.95	Quasi Peak
417.960	22.43	46	-23.57	Quasi Peak
1596.350	30.15	74	-43.85	Peak
1596.350	28.13	54	-25.87	Average
4960.075	59.98	74	-14.02	Peak
4960.075	34.75	54	-19.25	Average
7440.350	48.00	74	-26.00	Peak
7440.350	37.52	54	-16.48	Average
9920.150	47.33	74	-26.67	Peak
9920.150	39.46	54	-14.54	Average

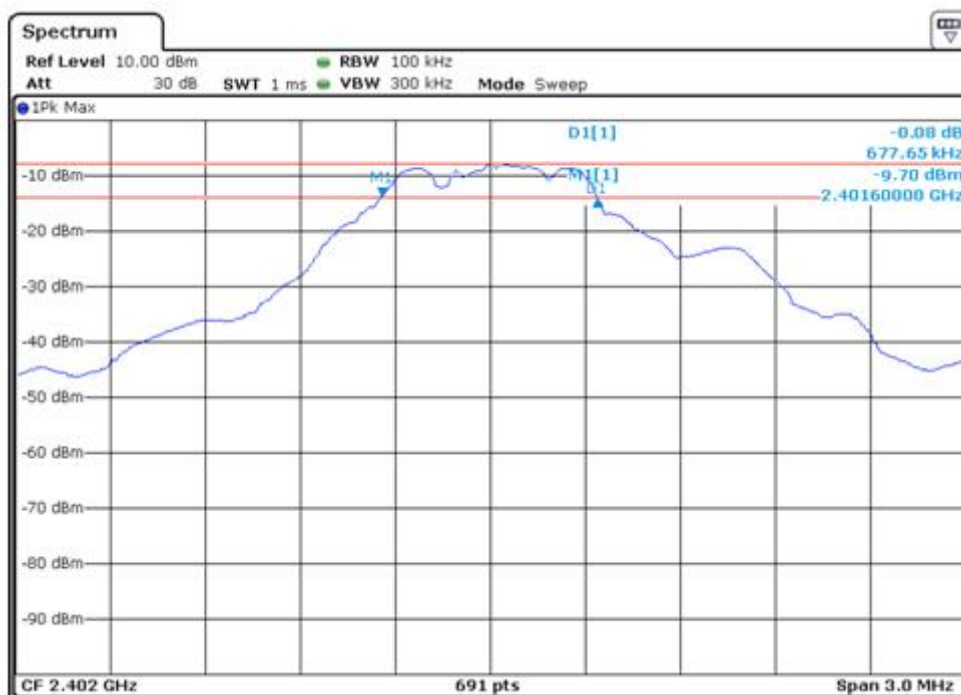
7.2 6dB & 99% Bandwidth

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed



6dB bandwidth	Limit
677.650 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

Test Result

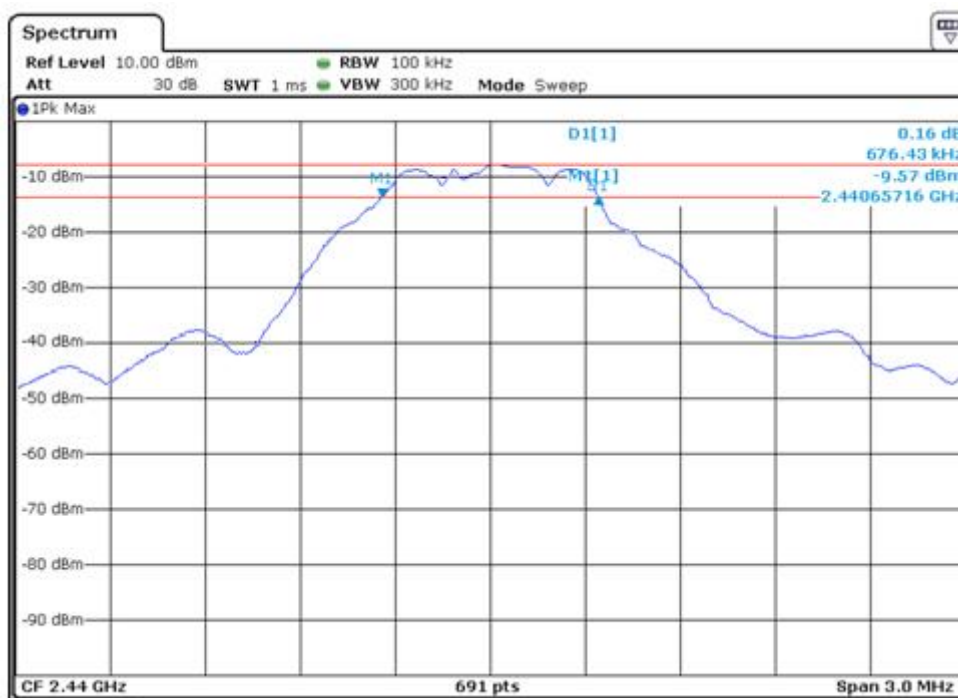
☒ Passed☐ Not Passed**99% bandwidth**

1020.289 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed

6dB bandwidth	Limit
676.430 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed**99% bandwidth**

999.448 kHz

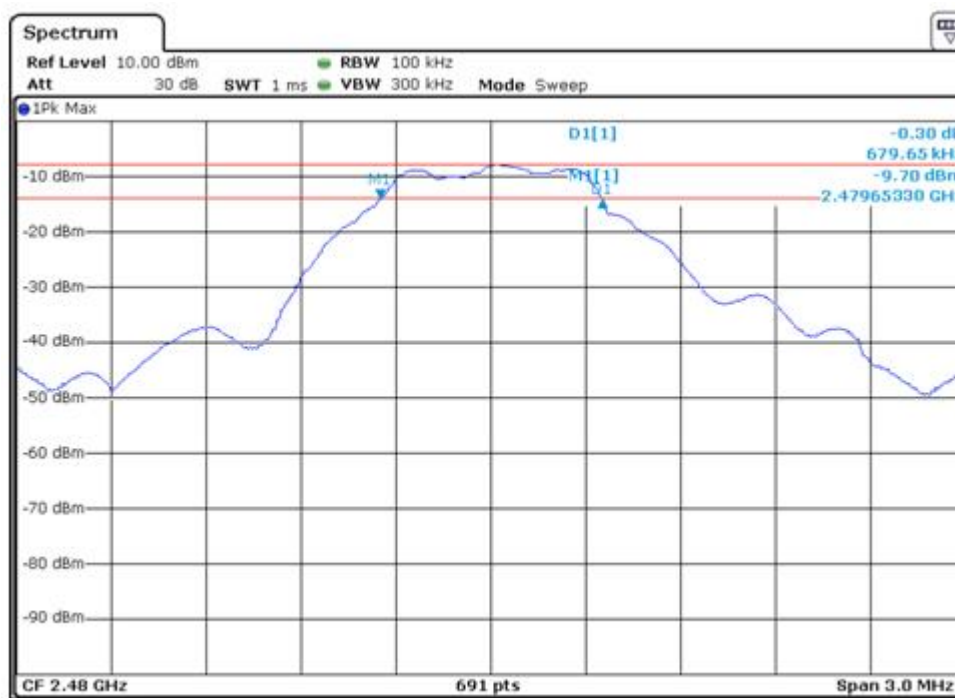
6dB & 99% Bandwidth

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed

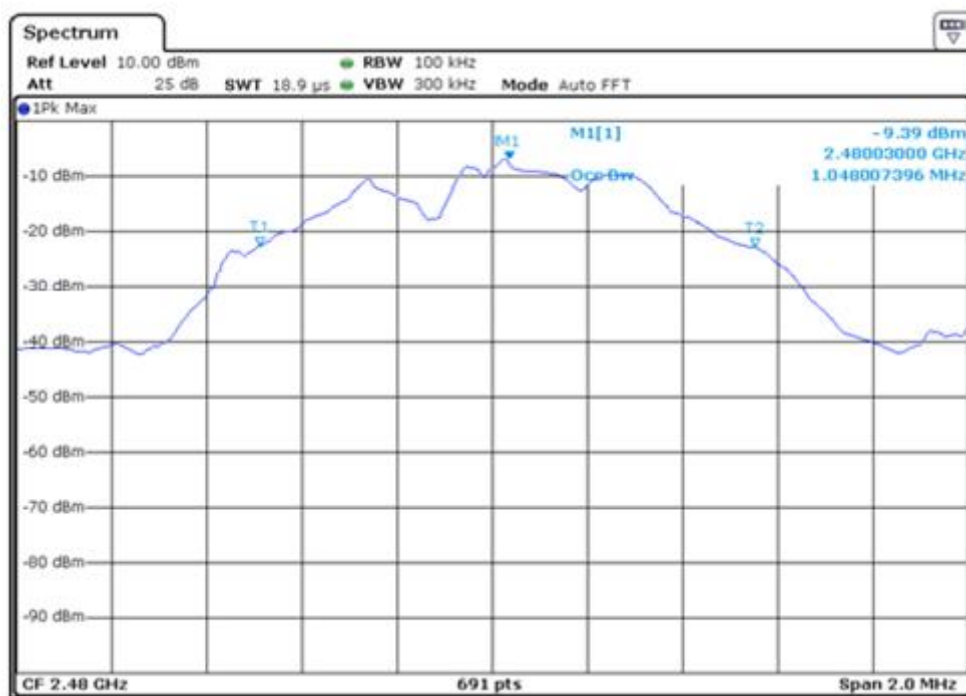


6dB bandwidth	Limit
679.650 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed**99% bandwidth**

1048.007 kHz

7.3 Peak Output Power

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed



Conducted Output Power	Limit
-9.89 dBm	< 30dBm

Peak Output Power

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed



Conducted Output Power	Limit
-9.94 dBm	< 30dBm

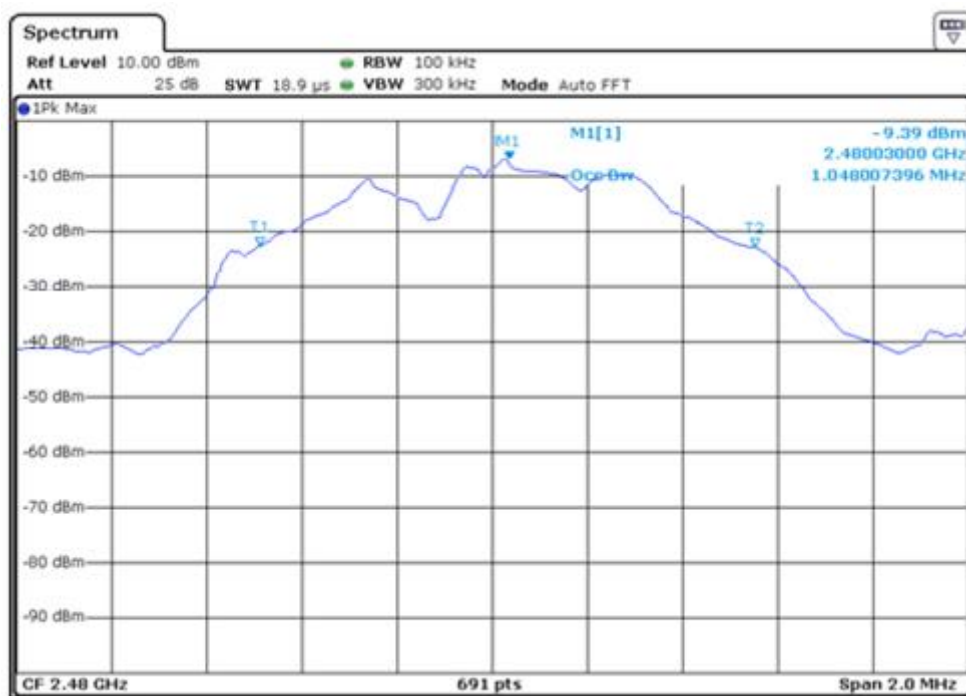
Peak Output Power

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed

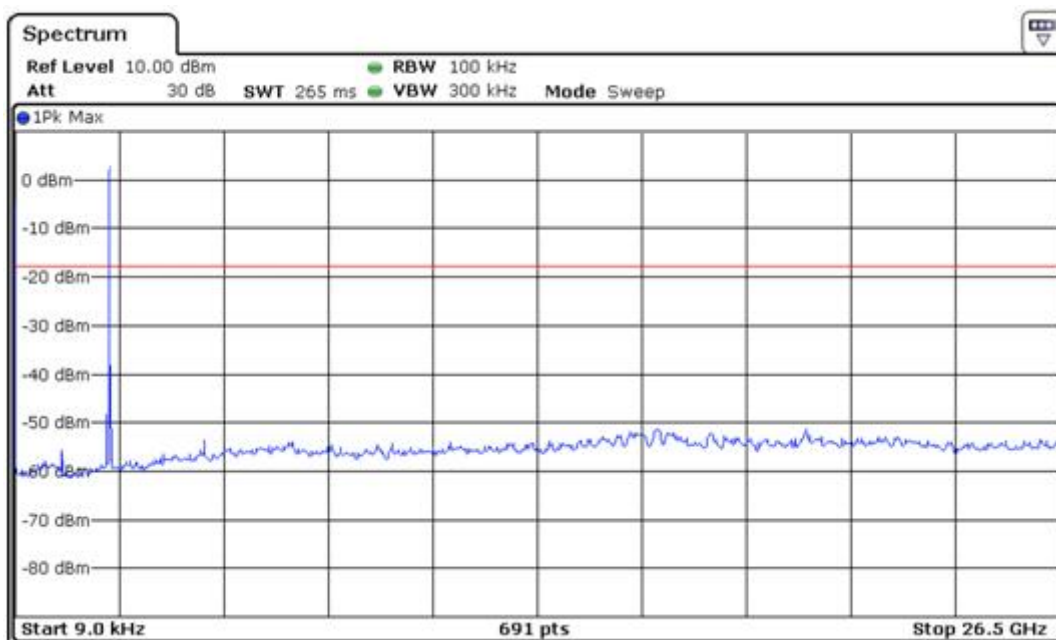


Conducted Output Power	Limit
-9.39 dBm	< 30dBm

7.4 Spurious Emissions at Antenna Terminals

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

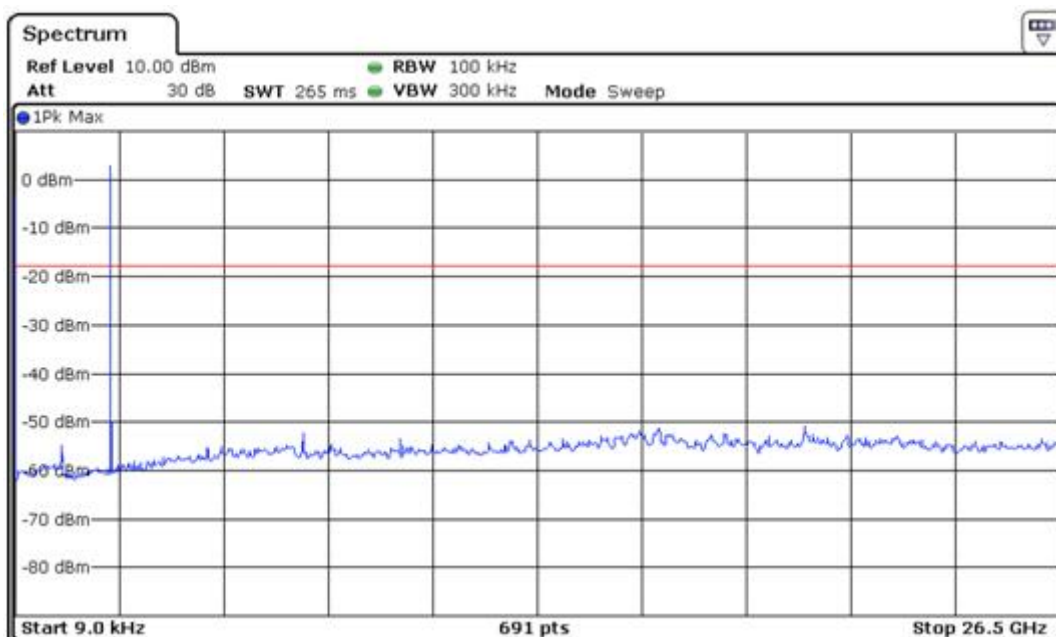
Test Result

☒ Passed☐ Not Passed

Spurious Emissions at Antenna Terminals

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

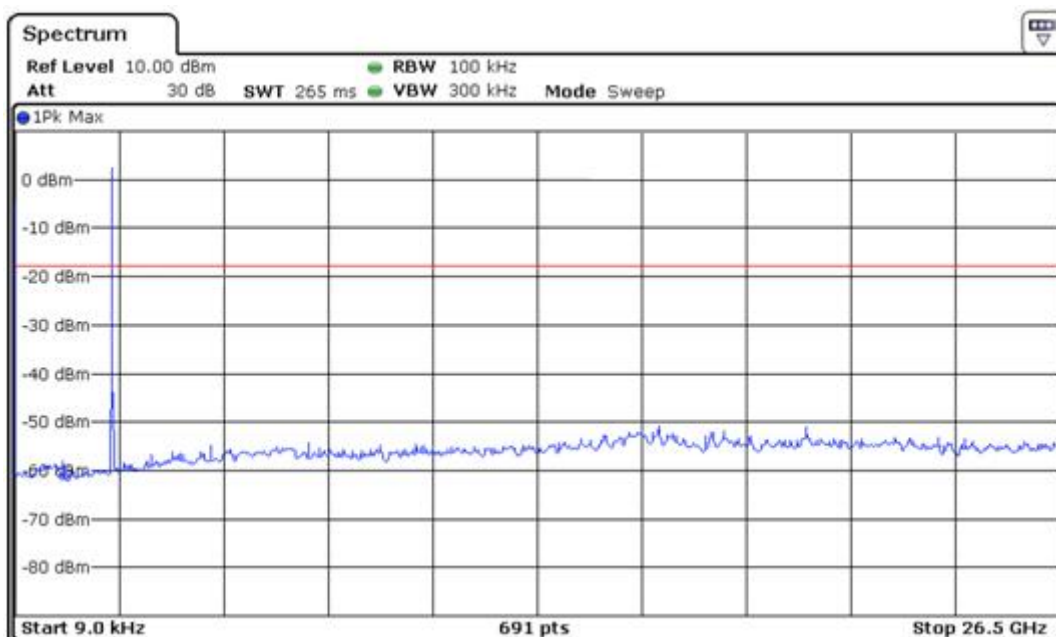
Test Result

☒ Passed☐ Not Passed

Spurious Emissions at Antenna Terminals

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

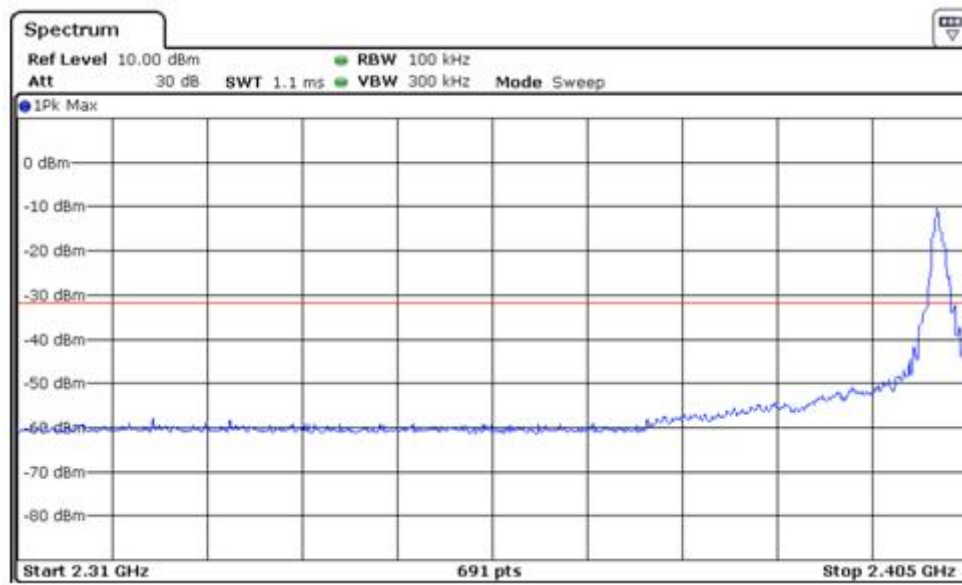
Test Result

☒ Passed☐ Not Passed

7.5 100kHz Bandwidth of band edges

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed

Frequency	Result
2.402 GHz	-10.03 dBm
2.390 GHz	-52.66 dBm

Band edges	Limit
42.63 dB	> 20dB

100kHz Bandwidth of band edges

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(d), Radiated
Comment: 3.6VDC

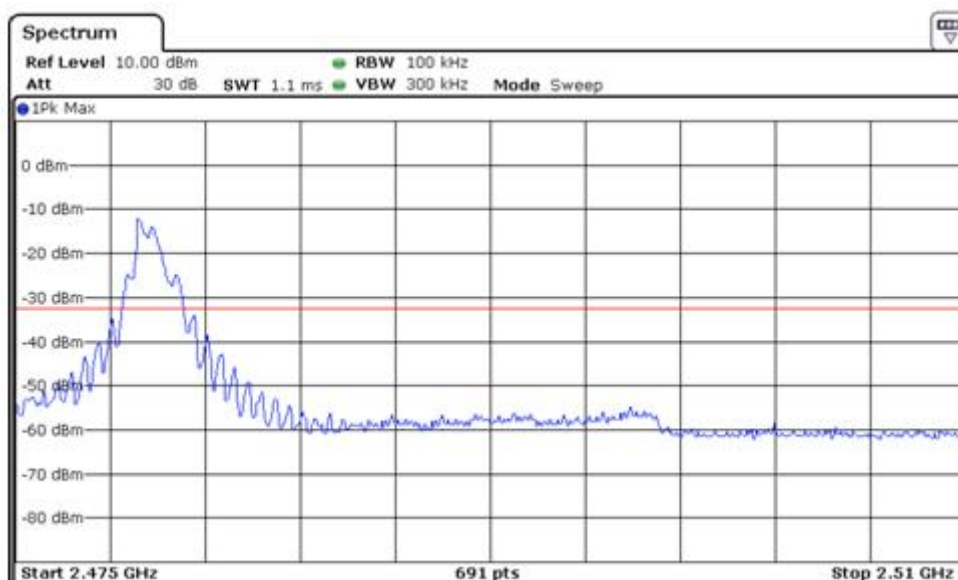
Test Result
☒ Passed
☐ Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2439.000	35.72	74	-38.28	Peak
2439.000	31.04	54	-22.96	Average

100kHz Bandwidth of band edges

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed

Frequency	Result
2.480 GHz	-12.13 dBm
2.4835 GHz	-50.67 dBm

Band edges	Limit
38.54 dB	> 20dB

100kHz Bandwidth of band edges

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(d), Radiated
Comment: 3.6VDC

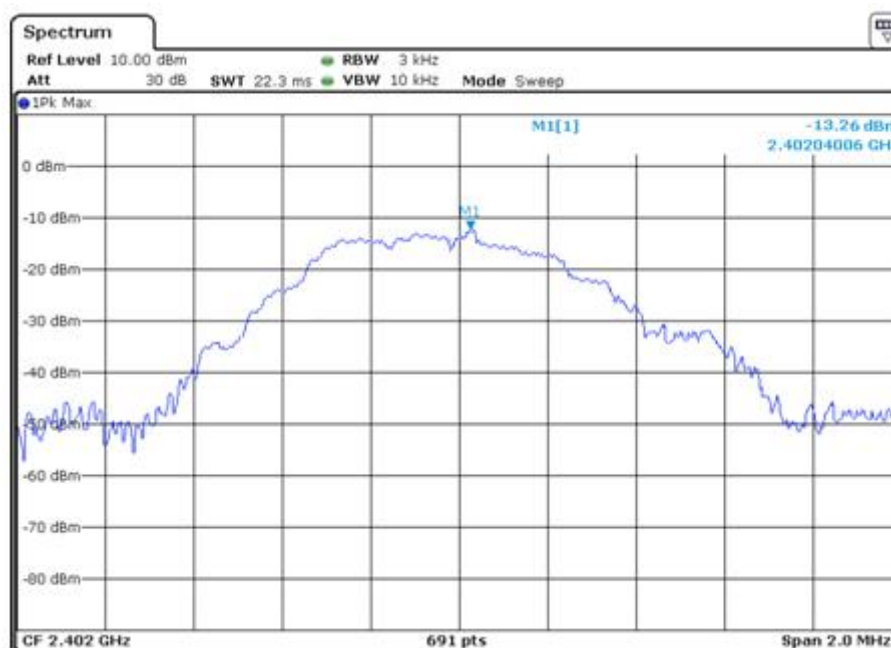
Test Result☒ Passed☐ Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2483.500	35.58	74	-38.42	Peak
2483.500	31.63	54	-22.37	Average

7.6 Power Spectral Density

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

Test Result

☒ Passed☐ Not Passed

Frequency	PSD	Result
2.402GHz	-13.26 dBm / 3kHz	< 8 dBm / 3 kHz

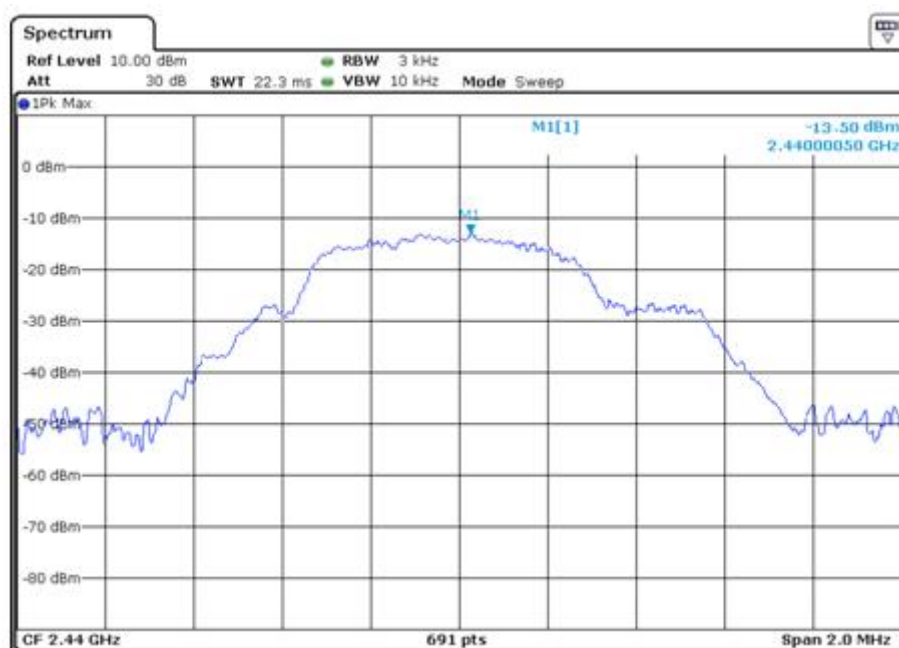
Power Spectral Density

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed



Frequency	PSD	Result
2.440GHz	-13.50 dBm / 3kHz	< 8 dBm / 3 kHz

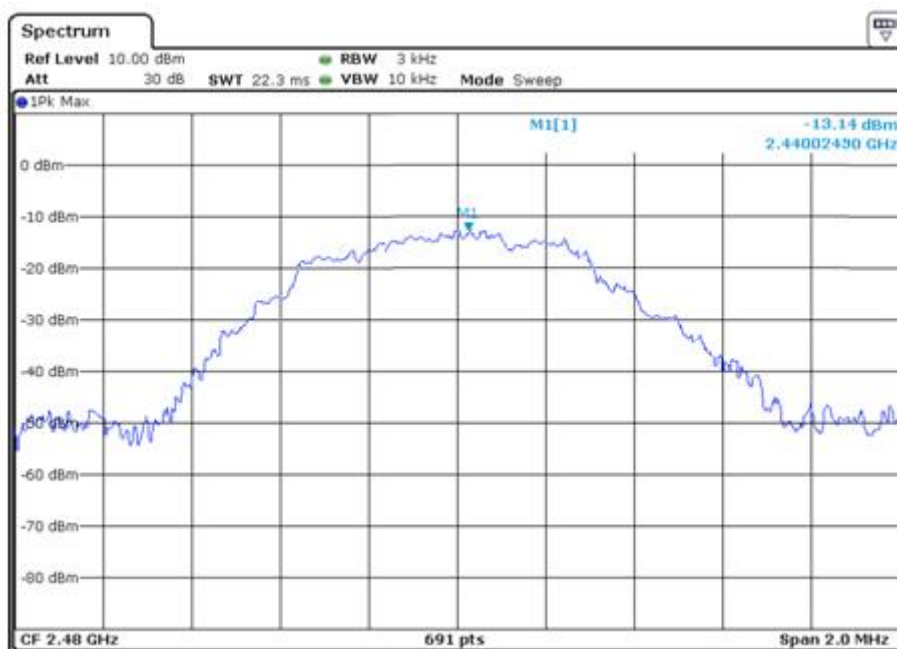
Power Spectral Density

EUT: HSTNW-D01W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

Test Result

☒ Passed

☐ Not Passed



Frequency	PSD	Result
2.480GHz	-13.14 dBm / 3kHz	< 8 dBm / 3 kHz

7.7 Antenna Requirement

EUT: HSTNW-D01W
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3.6VDC

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

HSTNW-D01W



Appendix A



Appendix A



Appendix A



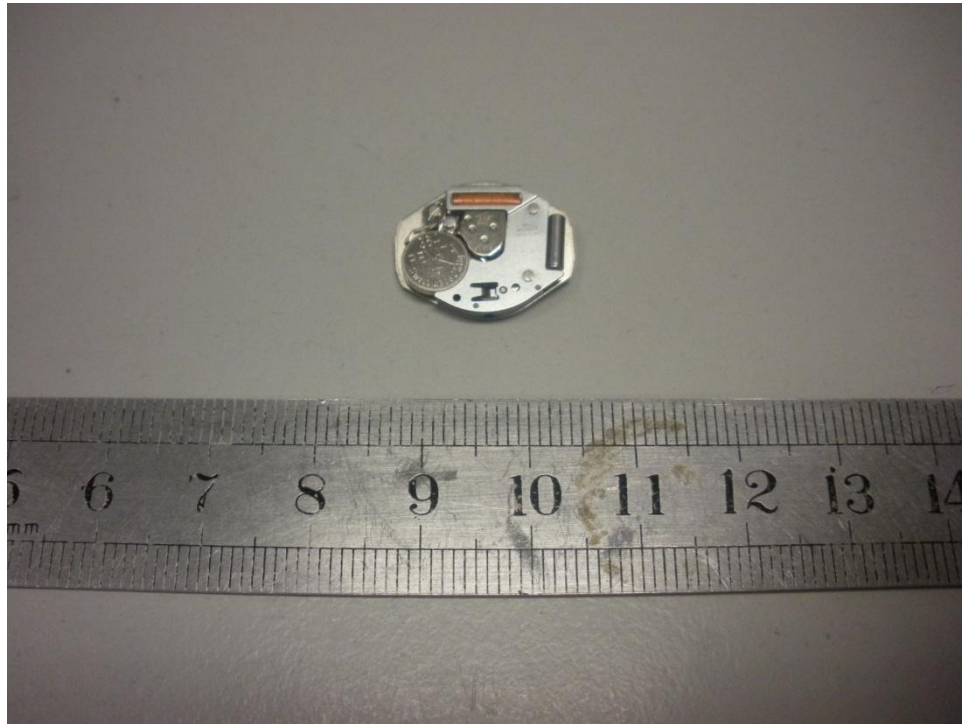
Appendix A



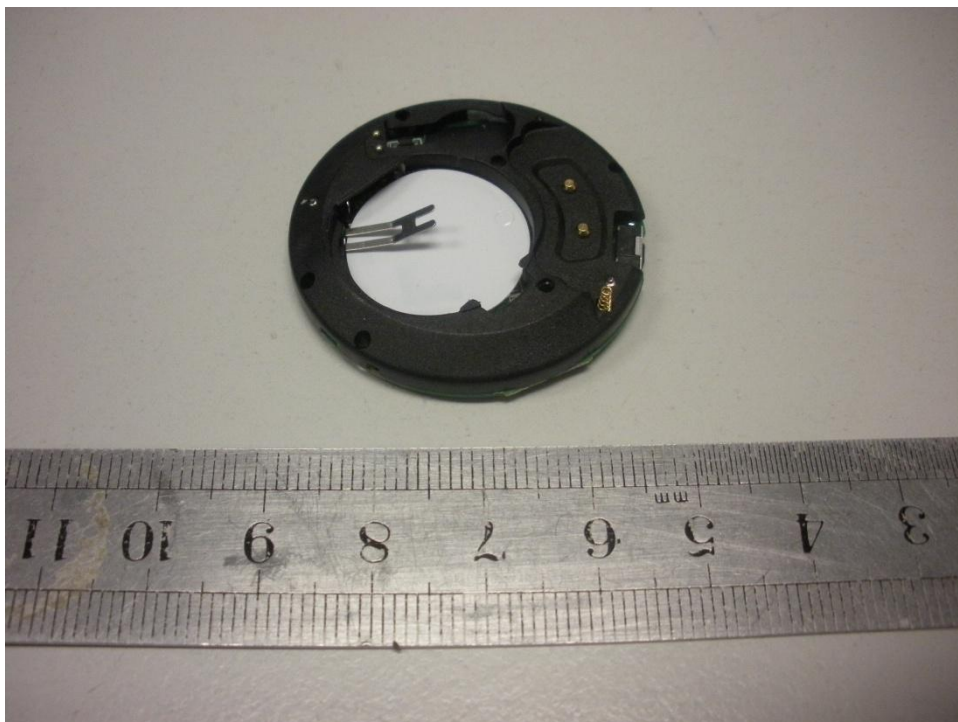
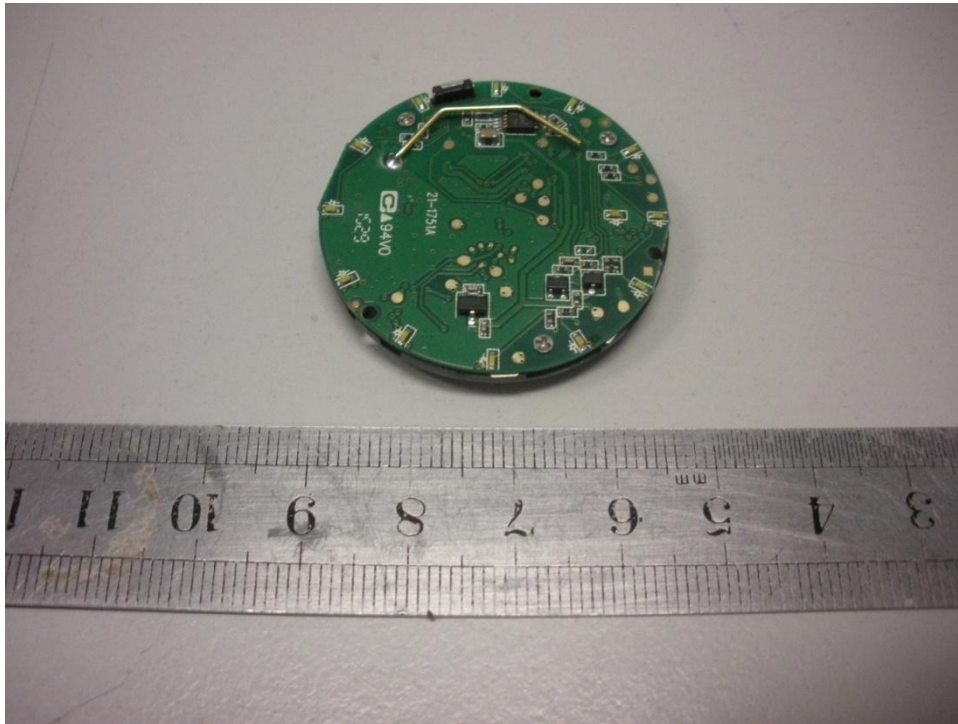
Appendix A



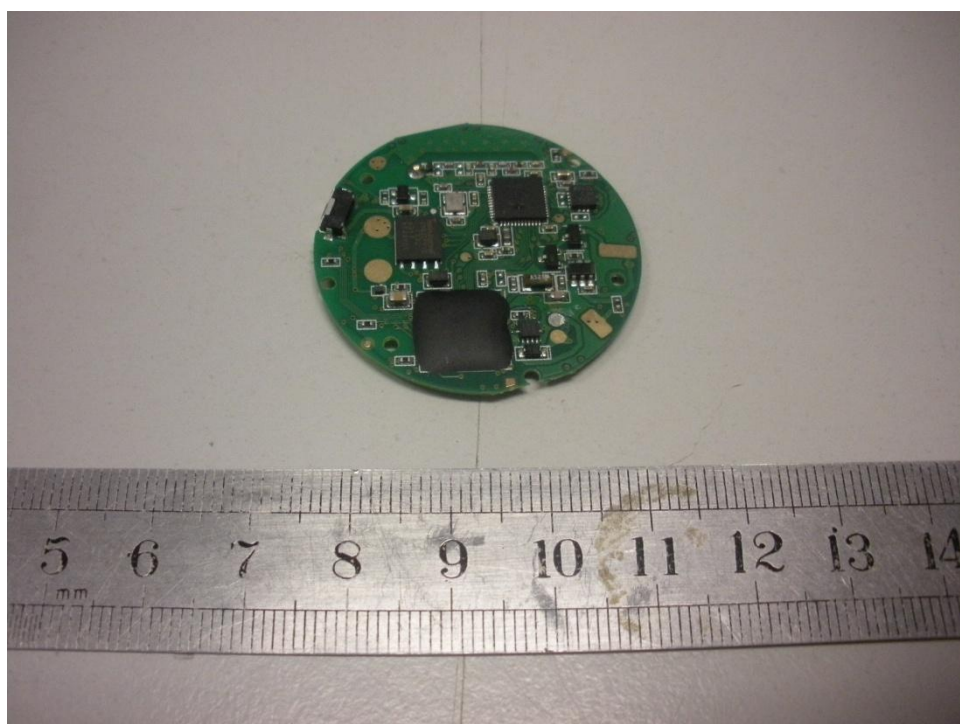
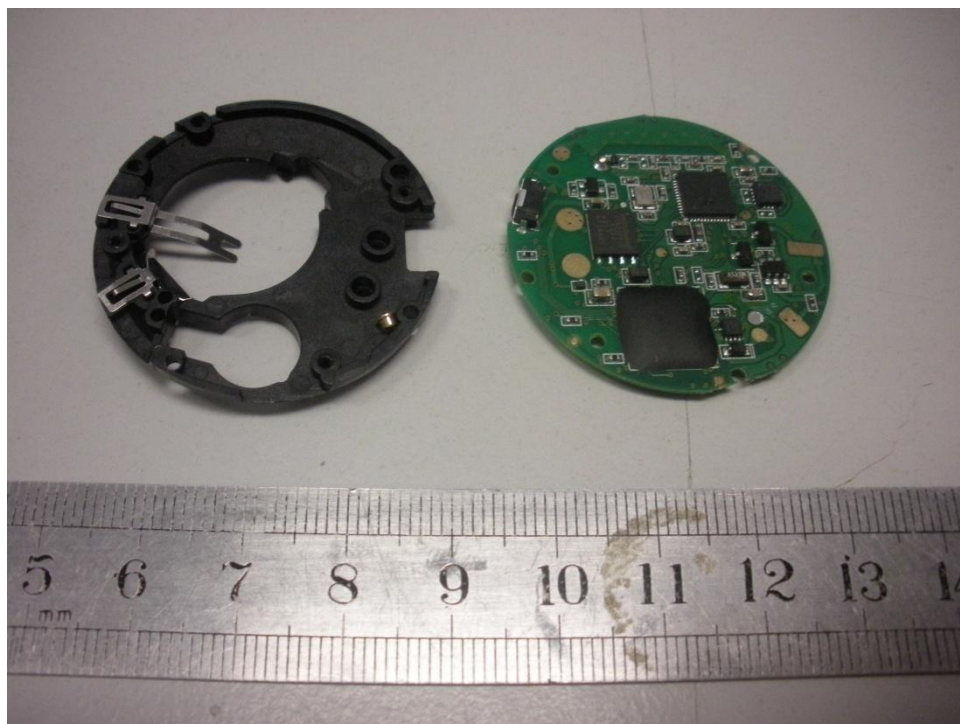
Appendix A



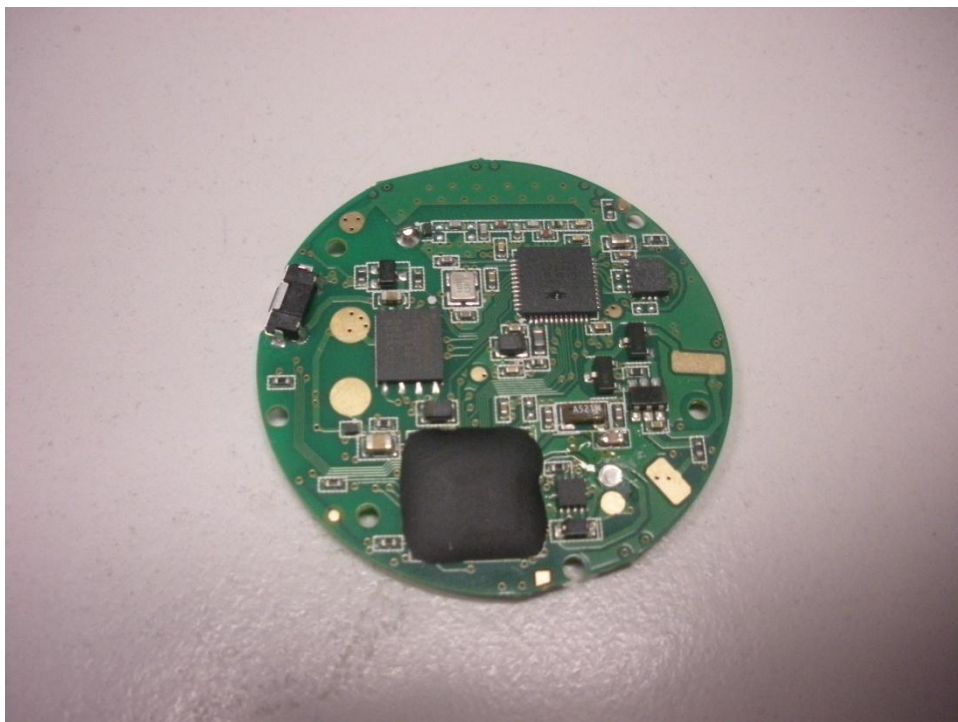
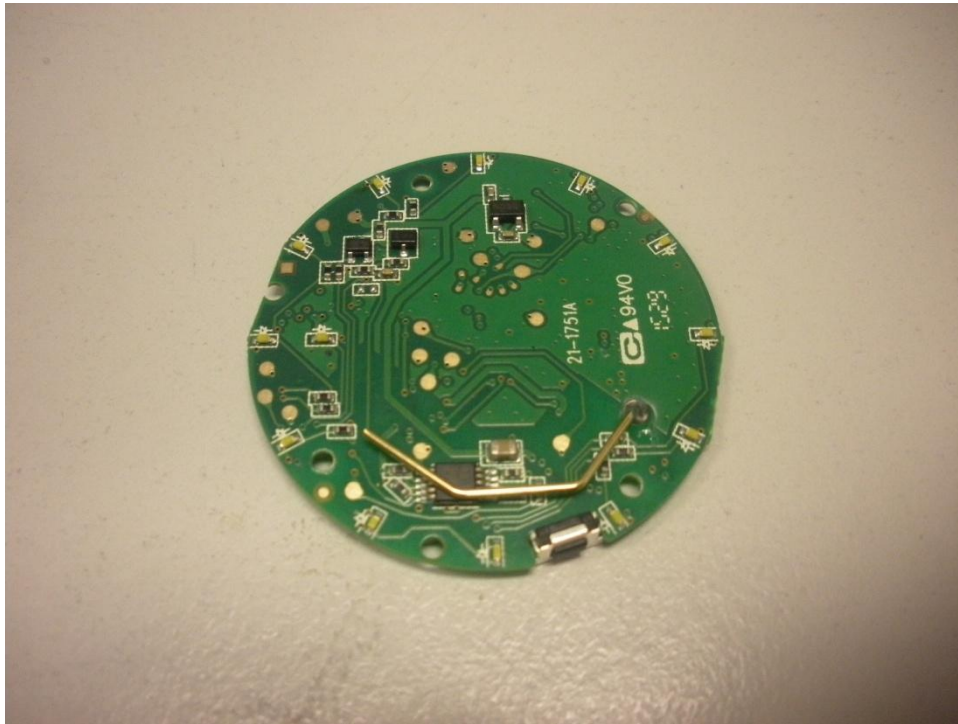
Appendix A



Appendix A



Appendix A

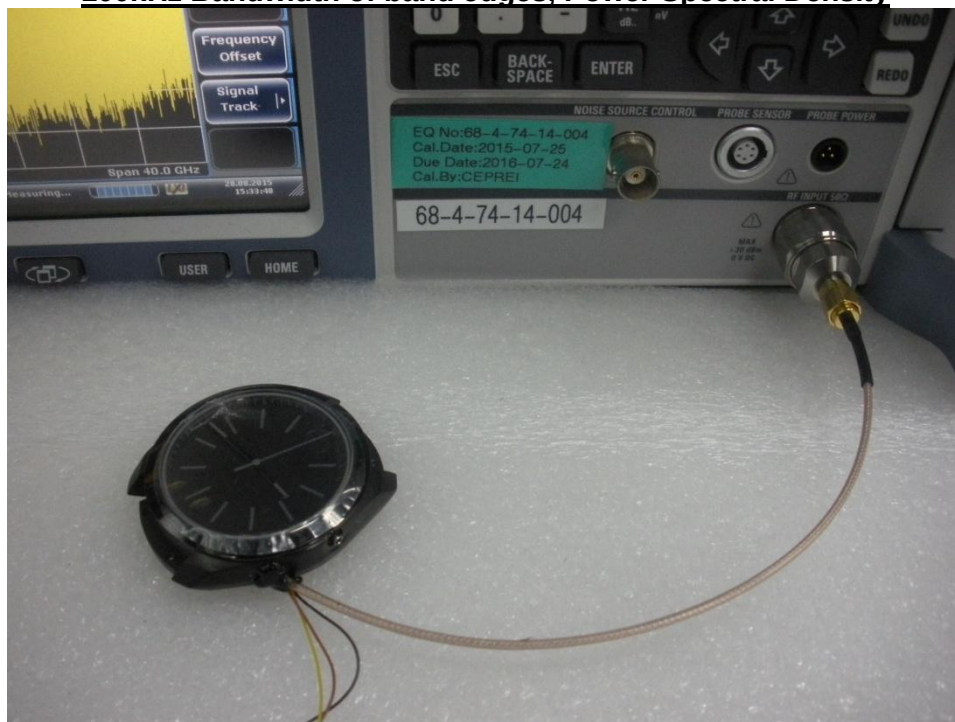


9 Appendix B - Setup Photographs of EUT

Spurious Radiated Emission



6dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density



10 Appendix C - General Product Information

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v05r02 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances ≤ 50 mm are determined by:

Power at 2402GHz = 0.0453 mW EIRP

Power at 2440GHz = 0.0459 mW EIRP

Power at 2480GHz = 0.0485 mW EIRP

$[(0.0453 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2402 \text{ GHz})] = 0.0444$ which is ≤ 3.0 for 1-g SAR.

$[(0.0459 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2440 \text{ GHz})] = 0.0453$ which is ≤ 3.0 for 1-g SAR.

$[(0.0485 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2480 \text{ GHz})] = 0.0483$ which is ≤ 3.0 for 1-g SAR.

Therefore the device is exempt from stand-alone SAR test requirements.

>> The fundamental frequency of the EUT is 2402MHz-2480MHz, the test separation distance is $< 50\text{mm}$.

>> The power of EUT measured is:

- For 2402MHz: $0.0453\text{mW} = 10 \log(0.0453) \text{ dBm} \sim -13.43\text{dBm}$
- For 2440MHz: $0.0459\text{mW} = 10 \log(0.0459) \text{ dBm} \sim -13.38\text{dBm}$
- For 2480MHz: $0.0485\text{mW} = 10 \log(0.0485) \text{ dBm} \sim -13.14\text{dBm}$