

FCC - TEST REPORT

Report Number : **60.790.15.036.01R01** Date of Issue : December 9, 2015

Model : **HSTNW-D03W**

Product Type : **BLE SMART WATCH**

Trade Name : **ISSAC MIZRAHI**

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 : 51

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	BLE SMART WATCH
Model no.:	HSTNW-D03W
FCC ID:	O4GISAAC
Rating:	1) For Bluetooth module: 3.6VDC (1 x 3.6VDC rechargeable button cell battery, Model: LIR2032) 2) For watch: 1.55VDC (1 x 1.55VDC button cell battery, Model:SR621SW)
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.207 Conduct Emission	NIL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	16-21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(b) Peak Output Power	22-24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	25-27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	28-31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(e) Power Spectral Density	32-34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.

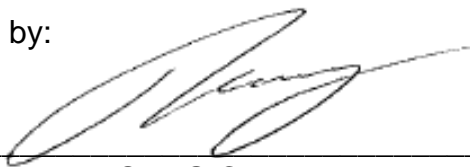
Sample Received Date: November 23, 2015

Testing Start Date: November 24, 2015

Testing End Date: December 7, 2015

- TÜV SÜD HONG KONG LTD. -

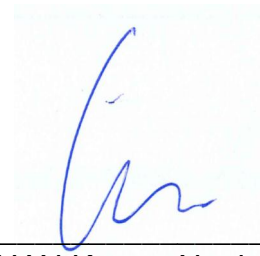
Reviewed by:



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-D03W
 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	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
119.472	18.74	43.5	-24.76	Quasi Peak
140.563	18.00	43.5	-25.50	Quasi Peak
168.225	18.36	43.5	-25.14	Quasi Peak
408.456	22.13	46	-23.87	Quasi Peak
420.789	22.56	46	-23.44	Quasi Peak
1595.000	30.12	74	-43.88	Peak
1595.000	27.88	54	-26.12	Average
2501.000	35.42	74	-38.58	Peak
4804.000	60.50	74	-13.15	Peak
4804.000	34.22	54	-19.78	Average
7206.000	56.12	74	-17.88	Peak
7206.000	38.02	54	-15.98	Average
9608.125	55.63	74	-18.37	Peak
9608.125	40.10	54	-13.9	Average

Spurious Radiated Emission

EUT: HSTNW-D03W
 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	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
119.870	18.56	43.5	-24.94	Quasi Peak
140.563	18.13	43.5	-25.37	Quasi Peak
170.950	18.74	43.5	-24.76	Quasi Peak
407.998	22.30	46	-23.70	Quasi Peak
420.650	23.01	46	-22.99	Quasi Peak
1595.000	31.32	74	-42.68	Peak
1595.000	29.13	54	-24.87	Average
2502.120	33.52	74	-40.48	Peak
4804.000	60.12	74	-13.88	Peak
4804.000	32.85	54	-21.15	Average
7206.000	53.88	74	-20.12	Peak
7206.000	38.03	54	-15.97	Average
9608.125	54.16	74	-19.84	Peak
9608.125	40.02	54	-13.98	Average

Spurious Radiated Emission

EUT: HSTNW-D03W
 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	
<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
120.430	18.73	43.5	-24.77	Quasi Peak
140.660	17.99	43.5	-25.51	Quasi Peak
163.228	18.54	43.5	-24.96	Quasi Peak
408.510	21.99	46	-24.01	Quasi Peak
420.645	22.38	46	-23.62	Quasi Peak
1595.000	32.30	74	-41.70	Peak
1595.000	29.16	54	-24.84	Average
2502.000	37.76	74	-36.24	Peak
4880.120	60.88	74	-13.12	Peak
4880.120	34.13	54	-19.87	Average
7320.120	53.52	74	-20.48	Peak
7320.120	38.05	54	-15.95	Average
9760.000	51.98	74	-22.02	Peak
9760.000	40.53	54	-13.47	Average

Spurious Radiated Emission

EUT: HSTNW-D03W
 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	
<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
120.463	18.73	43.5	-24.77	Quasi Peak
140.552	17.86	43.5	-25.64	Quasi Peak
165.698	18.43	43.5	-25.07	Quasi Peak
408.550	23.12	46	-22.88	Quasi Peak
418.960	23.45	46	-22.55	Quasi Peak
1595.000	31.55	74	-42.45	Peak
1595.000	29.14	54	-24.86	Average
2501.500	36.02	74	-37.98	Peak
4880.120	60.88	74	-13.12	Peak
4880.120	35.43	54	-18.57	Average
7320.120	52.86	74	-21.14	Peak
7320.120	37.22	54	-16.78	Average
9760.000	50.43	74	-23.57	Peak
9760.000	40.13	54	-13.87	Average

Spurious Radiated Emission

EUT: HSTNW-D03W
 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	
<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
119.984	18.88	43.5	-24.62	Quasi Peak
139.563	17.98	43.5	-25.52	Quasi Peak
163.125	18.56	43.5	-24.94	Quasi Peak
408.640	22.63	46	-23.37	Quasi Peak
417.980	23.26	46	-22.74	Quasi Peak
1595.000	30.84	74	-43.16	Peak
1595.000	28.88	54	-25.12	Average
4960.075	61.02	74	-12.98	Peak
4960.075	36.53	54	-17.74	Average
7440.000	51.52	74	-22.48	Peak
7440.000	38.66	54	-15.34	Average
9920.150	52.01	74	-21.99	Peak
9920.150	40.39	54	-13.61	Average

Spurious Radiated Emission

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.6VDC
 Remark: 9kHz to 25GHz

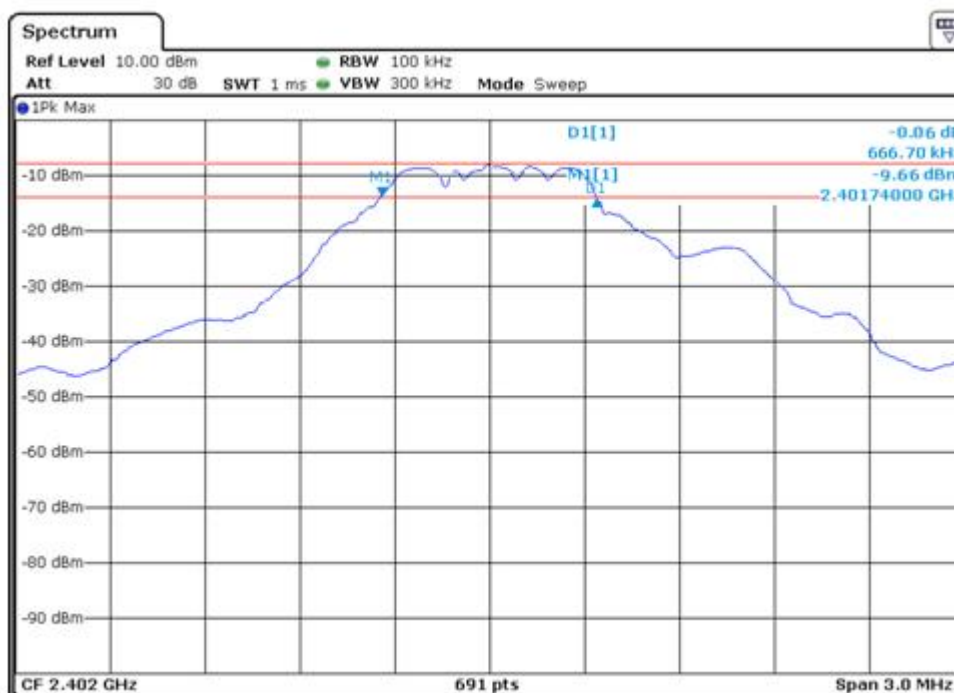
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
119.568	18.86	43.5	-24.64	Quasi Peak
139.450	17.89	43.5	-25.61	Quasi Peak
163.666	18.56	43.5	-24.94	Quasi Peak
408.250	23.46	46	-22.54	Quasi Peak
417.960	23.53	46	-22.47	Quasi Peak
1595.000	31.42	74	-42.58	Peak
1595.000	29.65	54	-24.35	Average
4960.075	60.45	74	-13.55	Peak
4960.075	35.88	54	-18.12	Average
7440.000	51.23	74	-22.77	Peak
7440.000	38.65	54	-15.35	Average
9920.150	52.23	74	-21.77	Peak
9920.150	40.46	54	-13.54	Average

7.2 6dB & 99% Bandwidth

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

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



6dB bandwidth	Limit
677.650 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

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



99% bandwidth
1010.389 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

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



6dB bandwidth	Limit
657.06 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

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

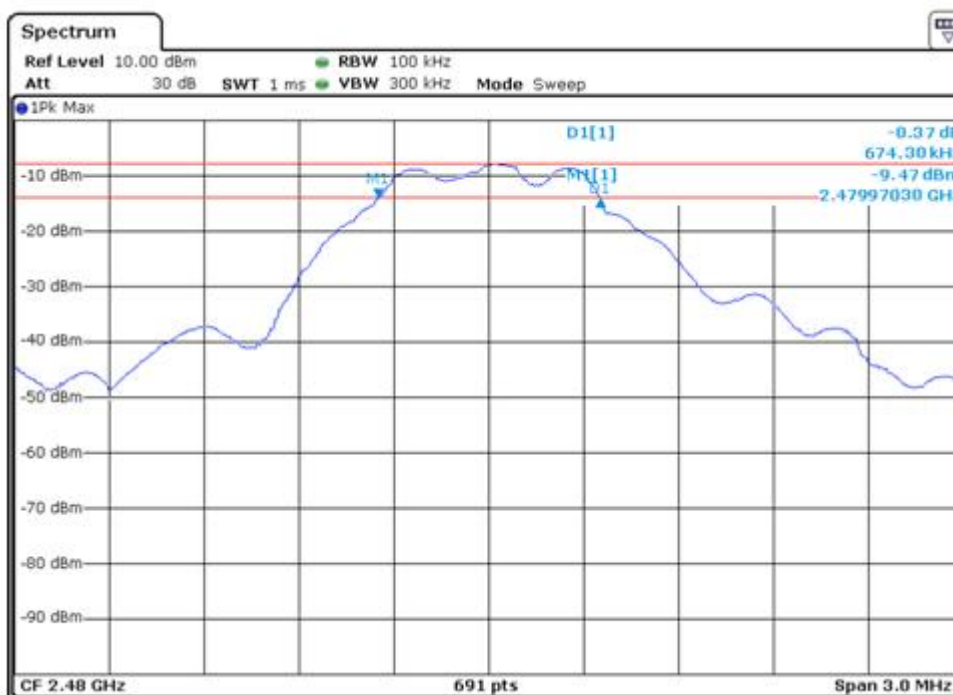


99% bandwidth
999.433 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.6VDC

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

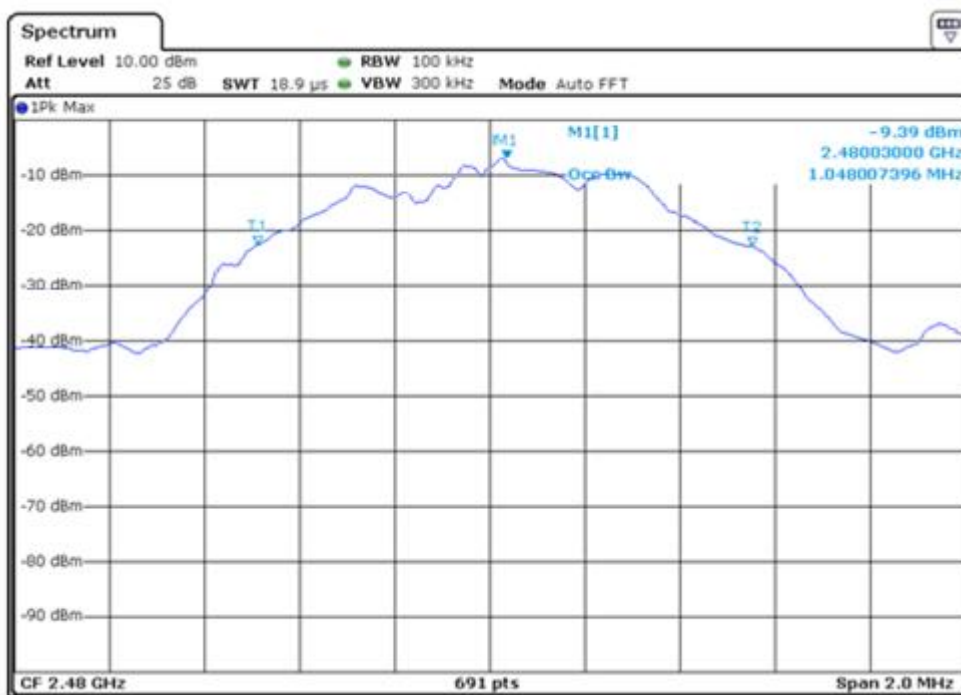


6dB bandwidth	Limit
674.30 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(a)(2), 99% Bandwidth
Comment: 3.6VDC

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

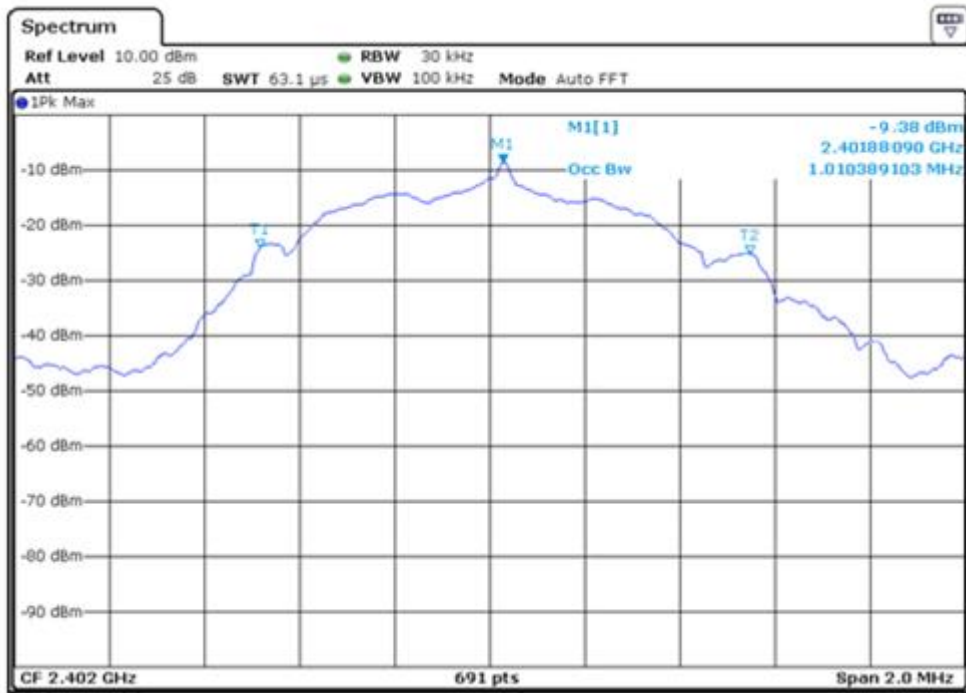


99% bandwidth
1048.007 kHz

7.3 Peak Output Power

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

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

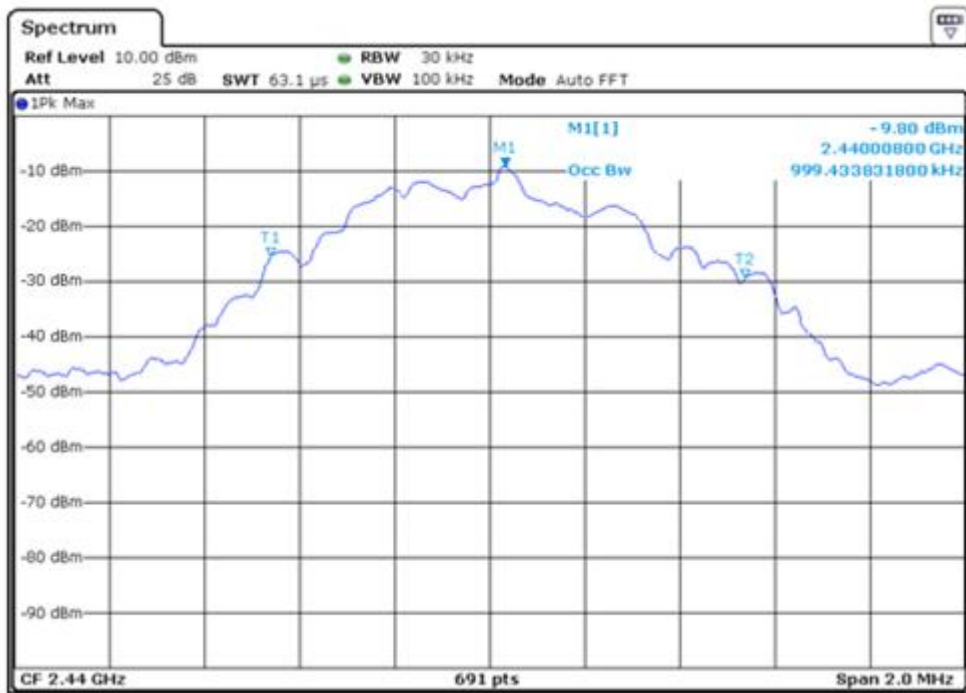


Conducted Output Power	Limit
-9.38 dBm	< 30dBm

Peak Output Power

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

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

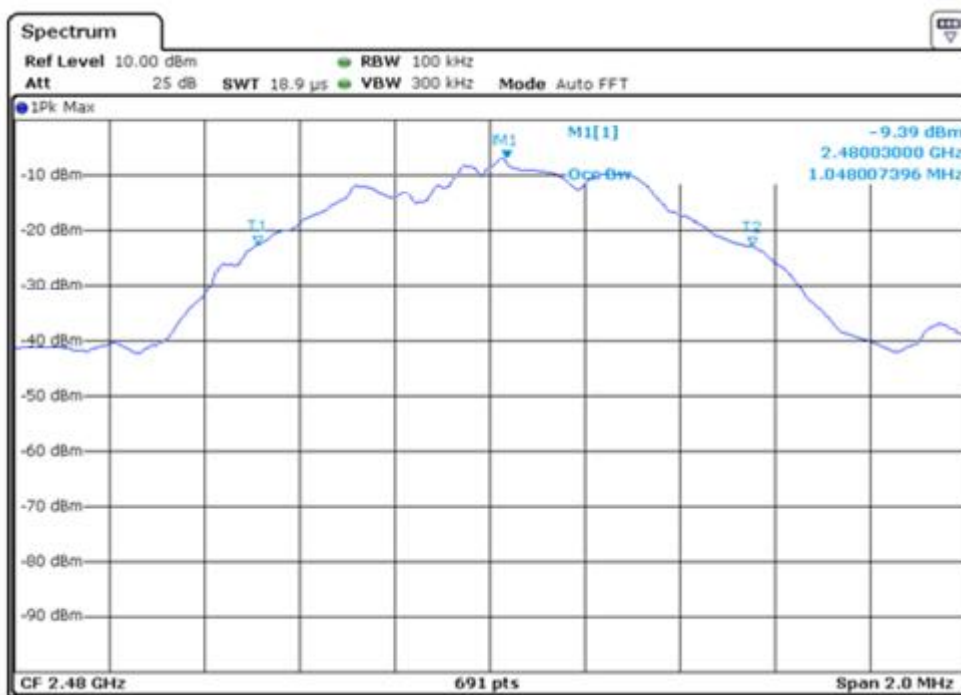


Conducted Output Power	Limit
-9.80 dBm	< 30dBm

Peak Output Power

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.6VDC

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

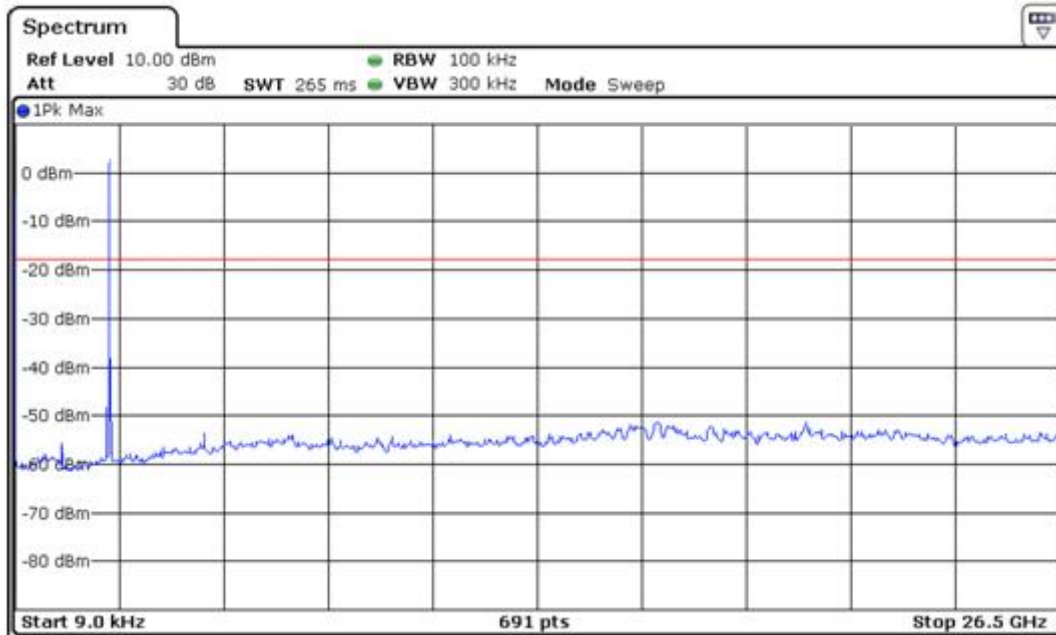


Conducted Output Power	Limit
-9.39 dBm	< 30dBm

7.4 Spurious Emissions at Antenna Terminals

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

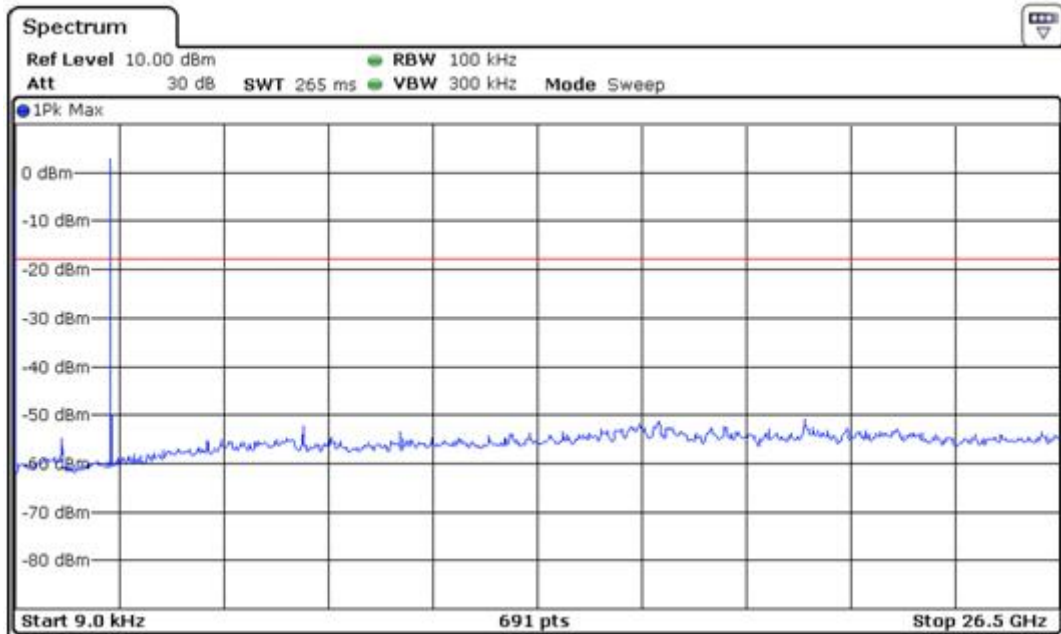
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Spurious Emissions at Antenna Terminals

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

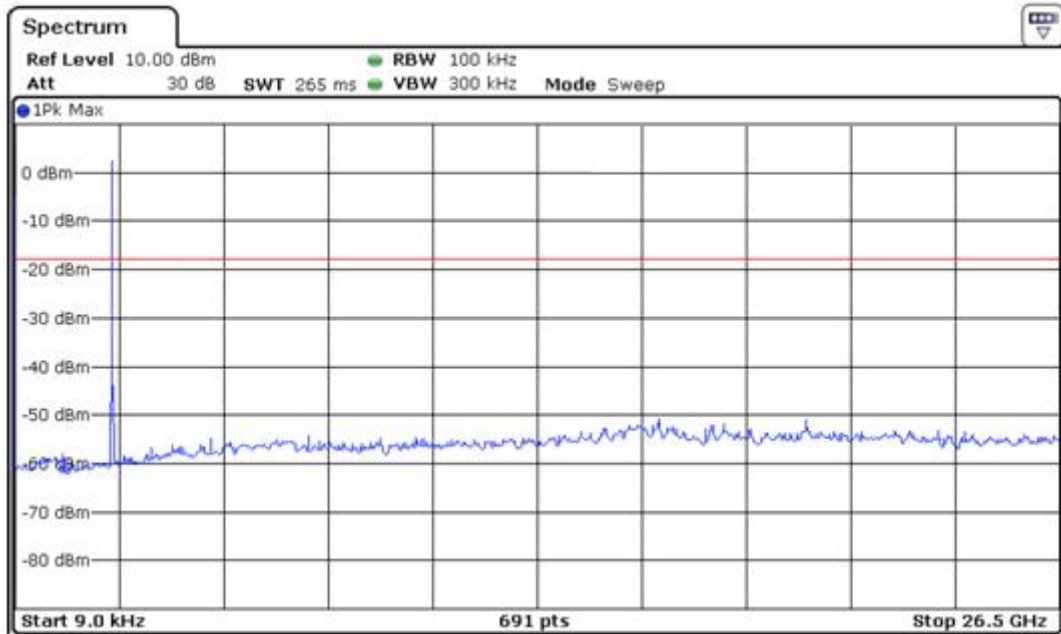
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Spurious Emissions at Antenna Terminals

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.6VDC
Remark: 9kHz to 26.5GHz

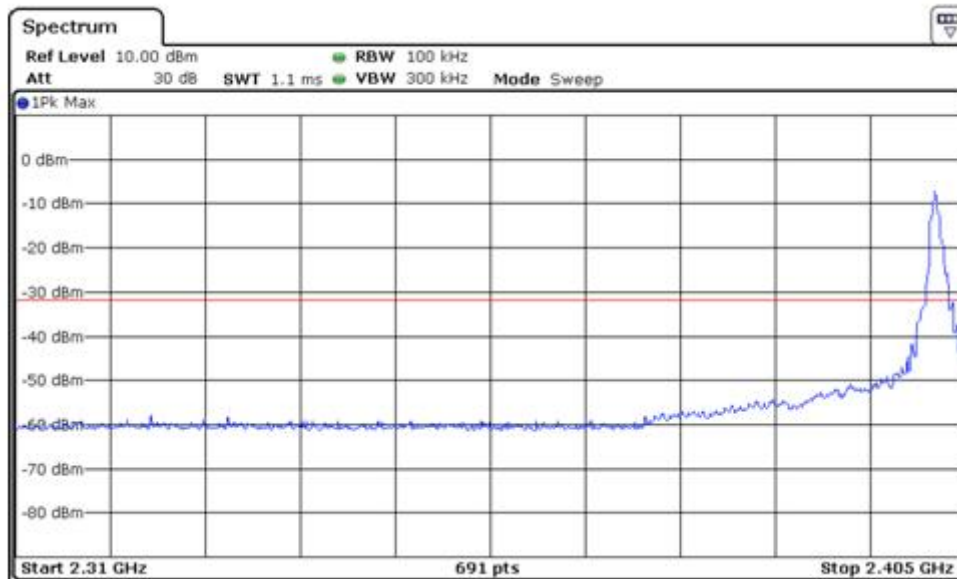
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



7.5 100kHz Bandwidth of band edges

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.6VDC

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



Frequency	Result
2.402 GHz	-9.83 dBm
2.390 GHz	-51.72 dBm

Band edges	Limit
41.89 dB	> 20dB



China

100kHz Bandwidth of band edges

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 3.6VDC

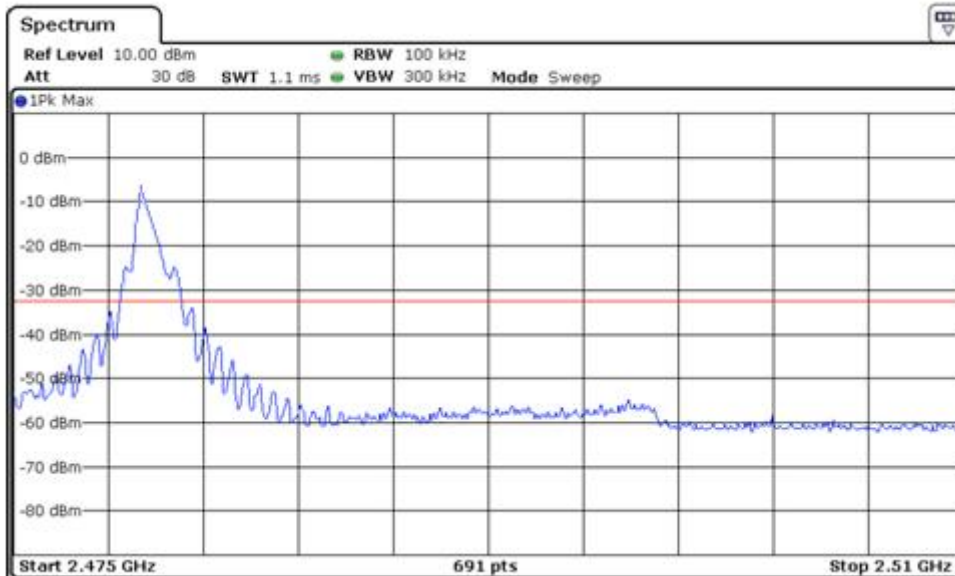
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
2439.000	36.72	74	-37.28	Peak
2439.000	32.10	54	-21.90	Average

100kHz Bandwidth of band edges

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.6VDC

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



Frequency	Result
2.480 GHz	-9.37 dBm
2.4835 GHz	-49.98 dBm

Band edges	Limit
37.45 dB	> 20dB

100kHz Bandwidth of band edges

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 3.6VDC

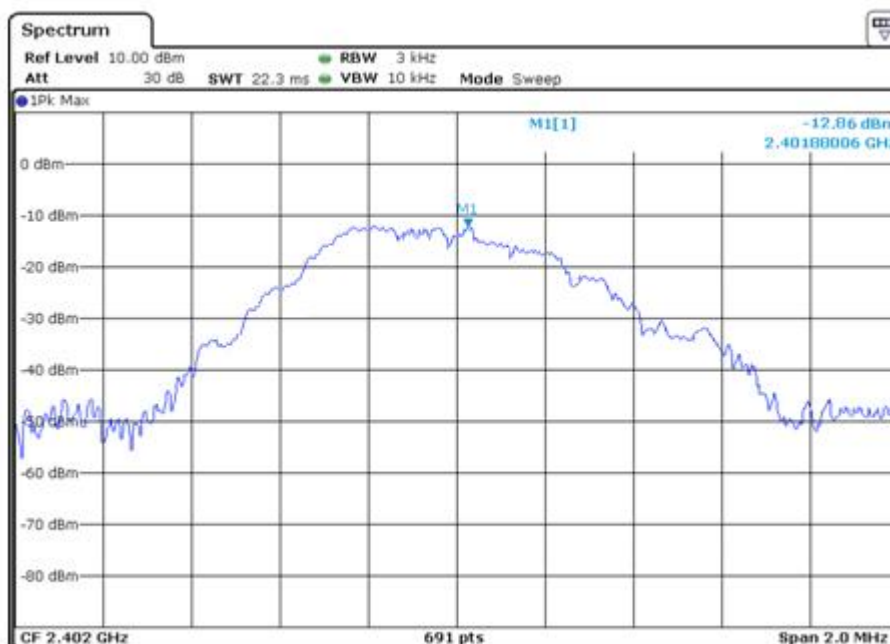
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
2483.500	36.24	74	-37.76	Peak
2483.500	32.31	54	-21.69	Average

7.6 Power Spectral Density

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

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

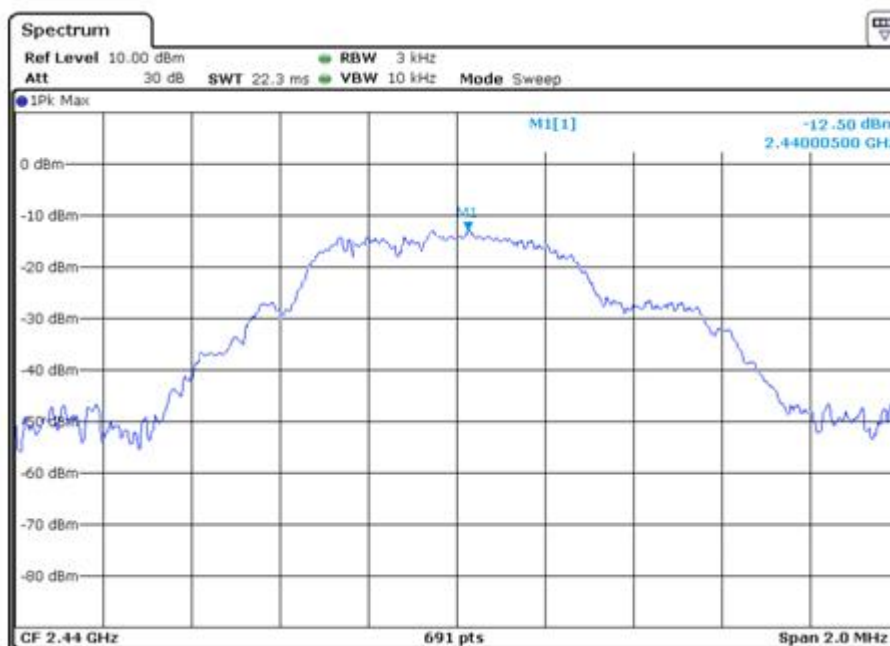


Frequency	PSD	Result
2.402GHz	-12.86 dBm / 3kHz	< 8 dBm / 3 kHz

Power Spectral Density

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

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

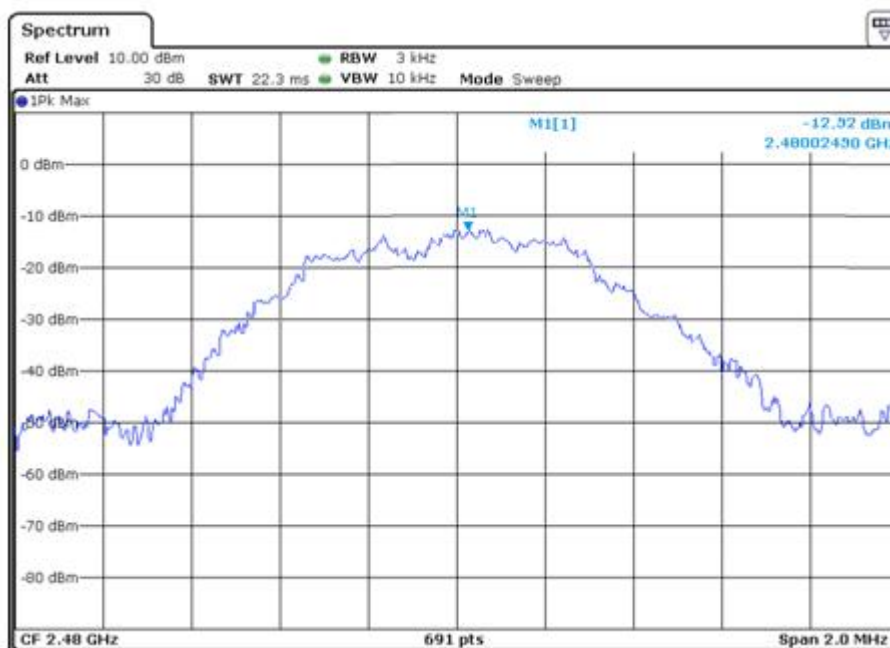


Frequency	PSD	Result
2.440GHz	-12.50 dBm / 3kHz	< 8 dBm / 3 kHz

Power Spectral Density

EUT: HSTNW-D03W
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.6VDC

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



Frequency	PSD	Result
2.480GHz	-12.92 dBm / 3kHz	< 8 dBm / 3 kHz

7.7 Antenna Requirement

EUT: HSTNW-D03W
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3.6VDC

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

HSTNW-D03W



Appendix A



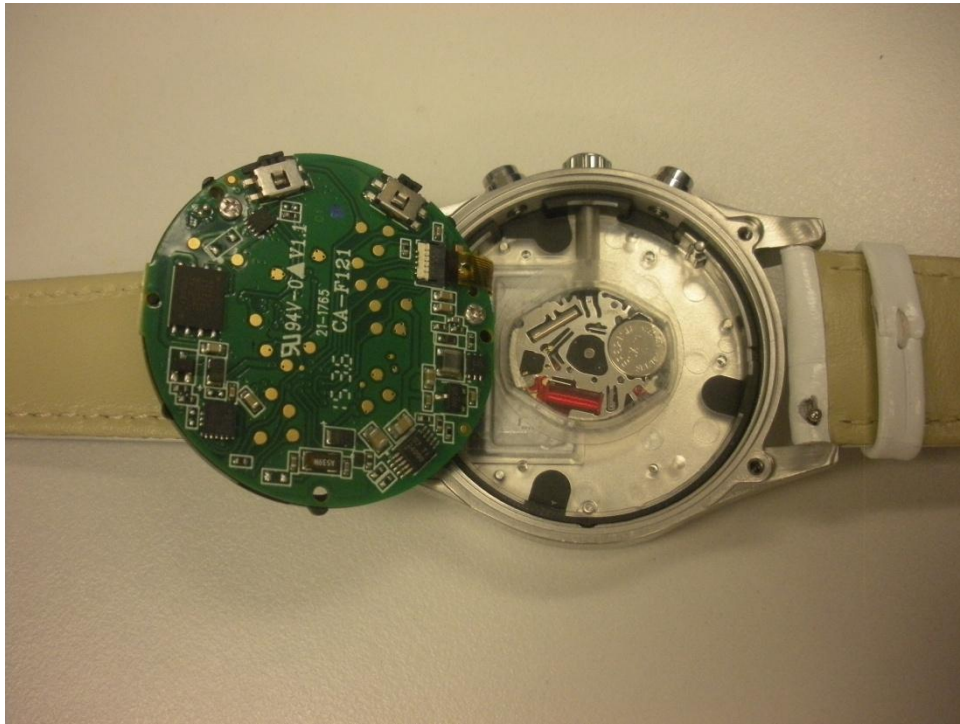
Appendix A



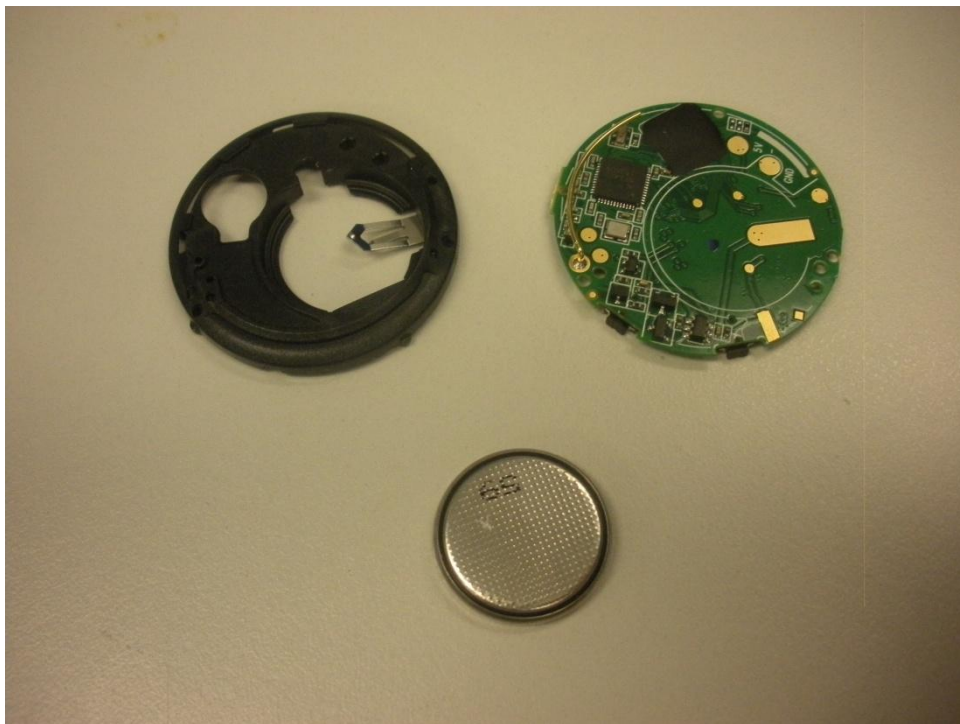
Appendix A



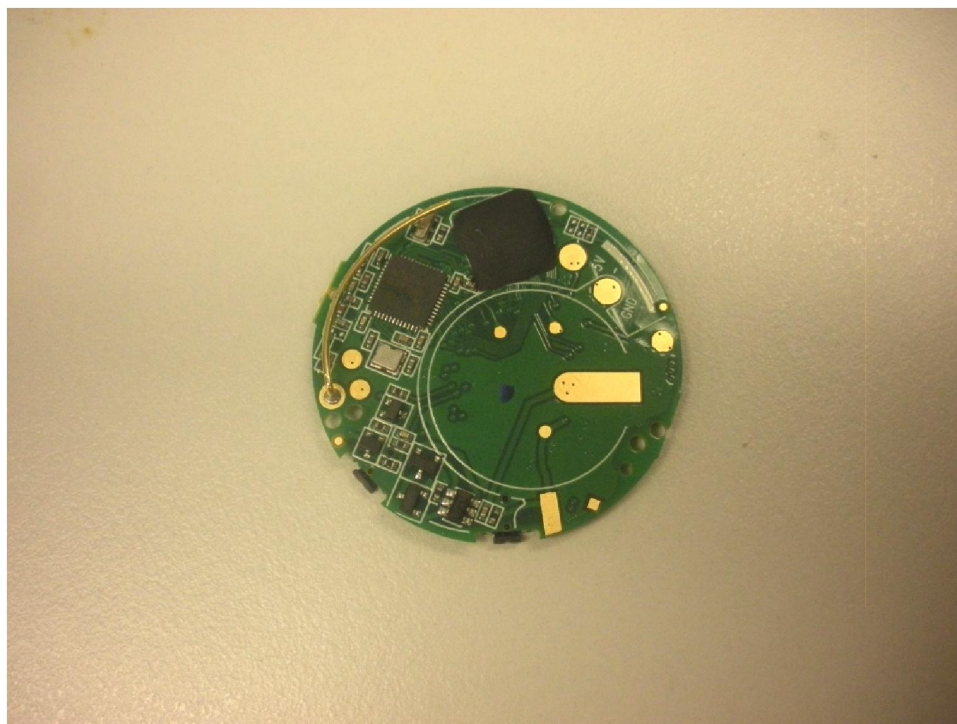
Appendix A



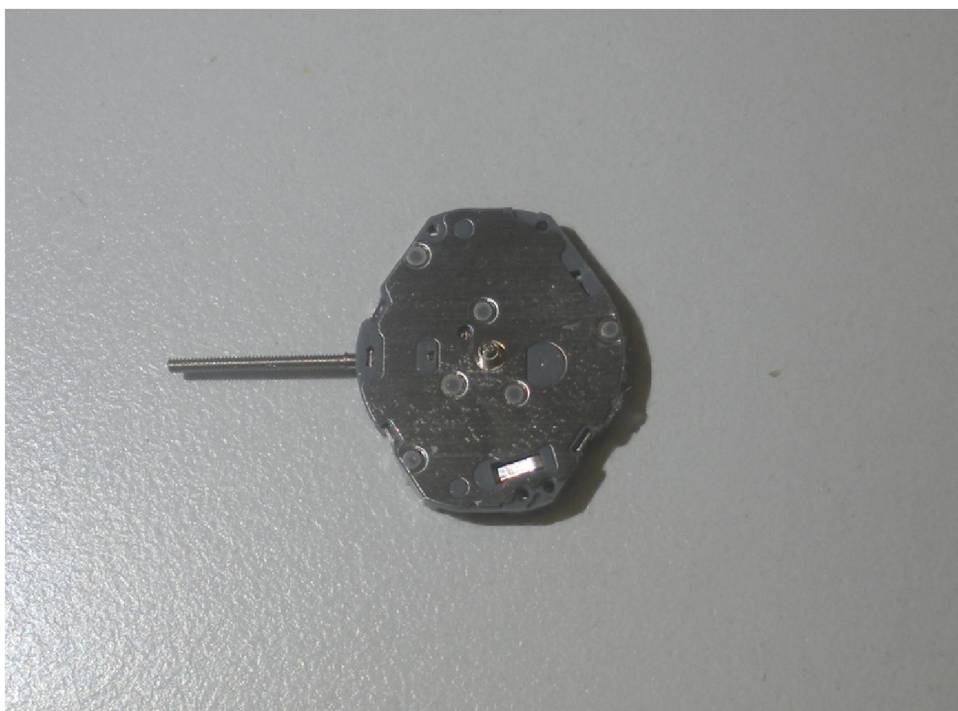
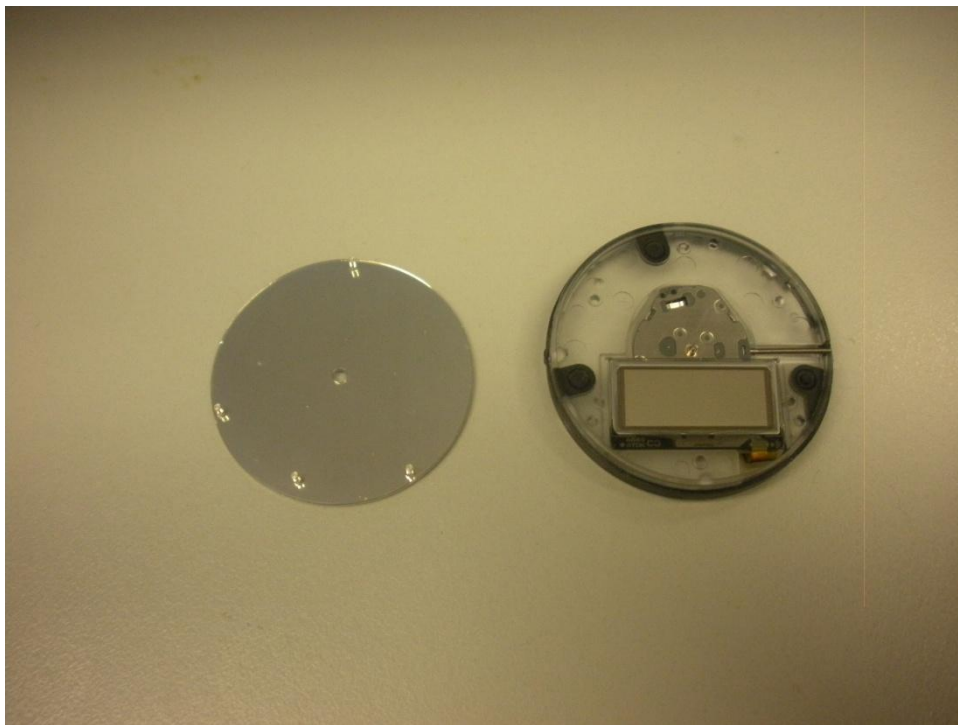
Appendix A



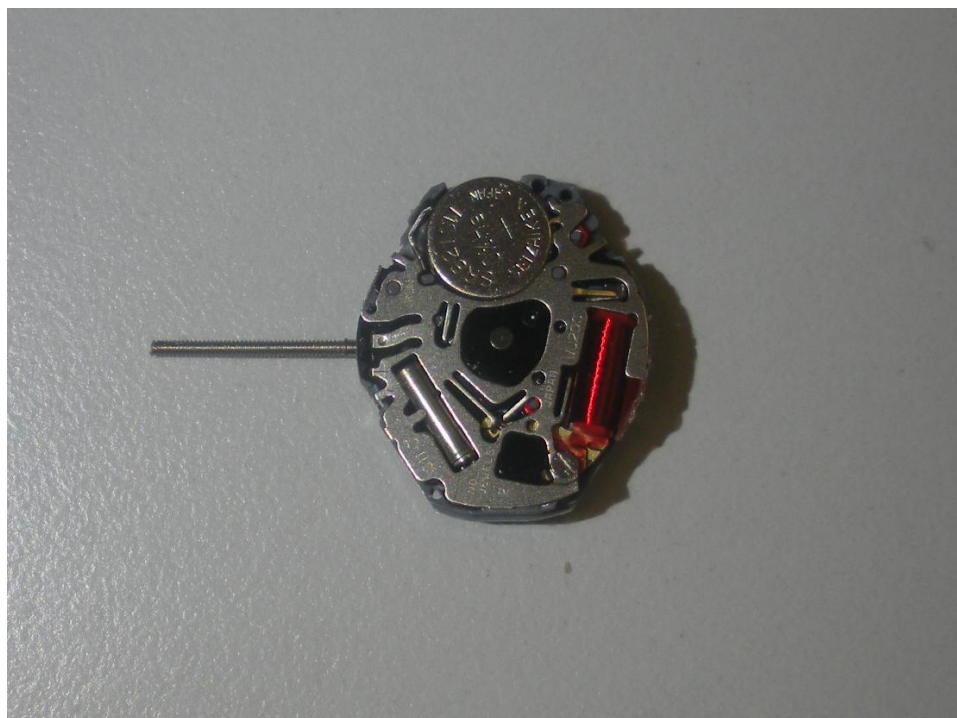
Appendix A



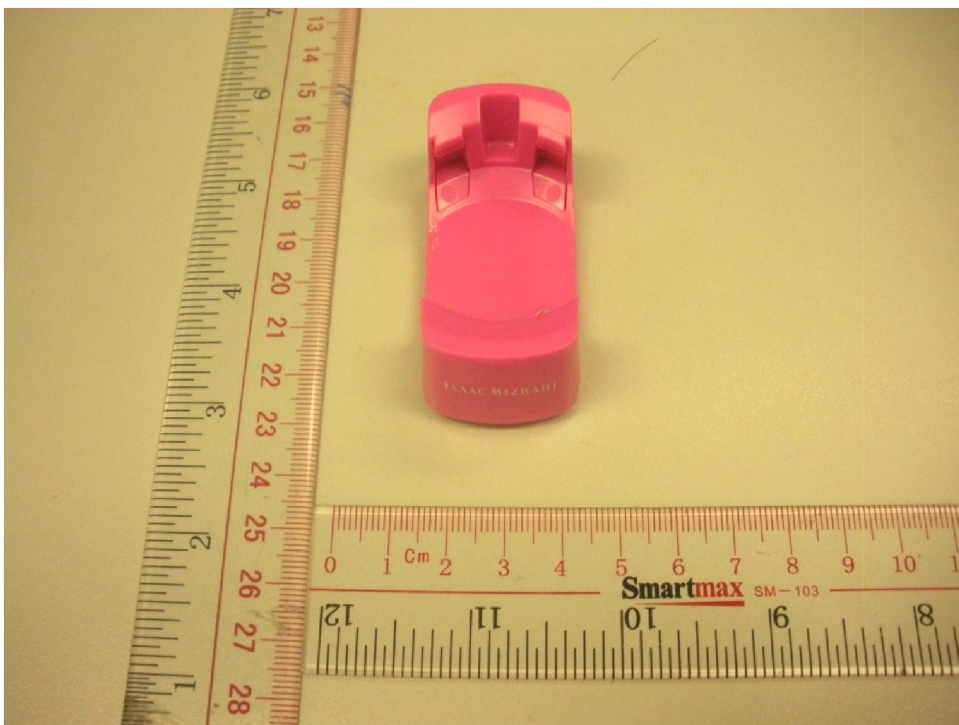
Appendix A



Appendix A



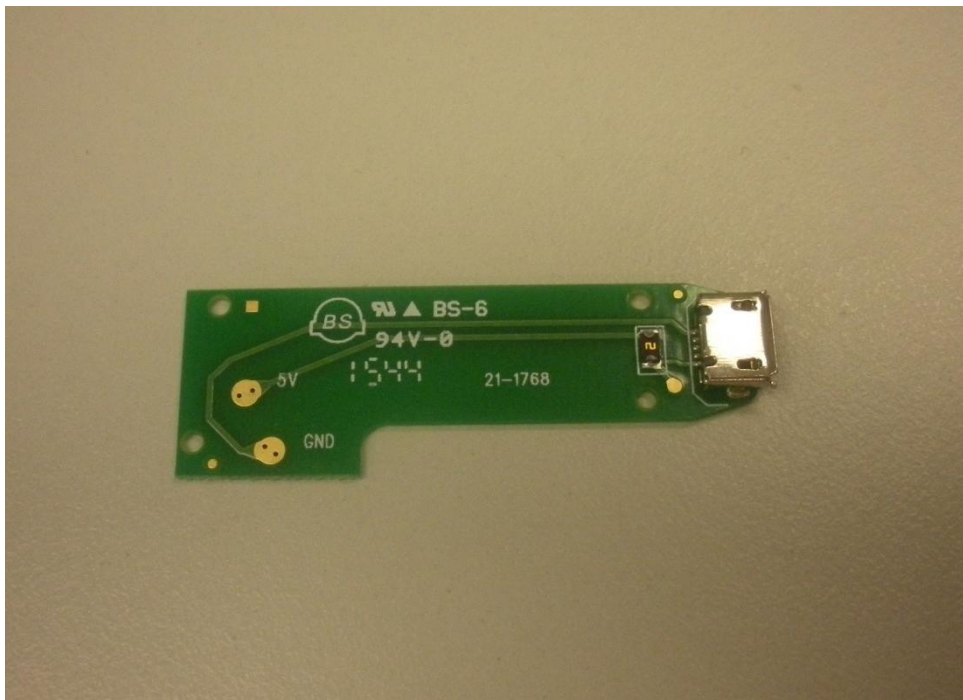
Appendix A



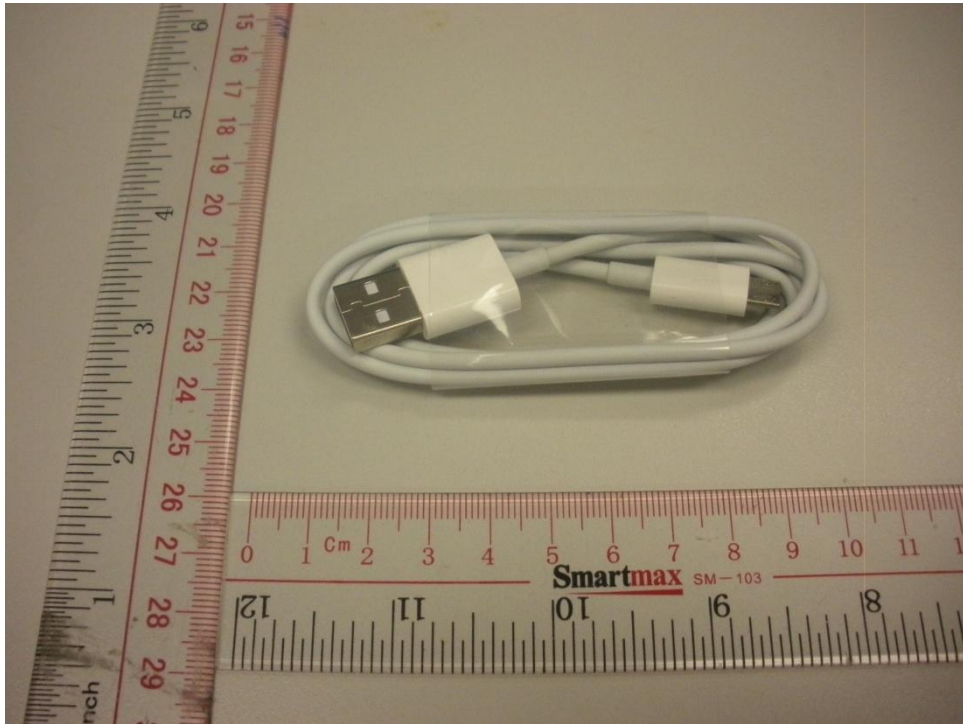
Appendix A



Appendix A

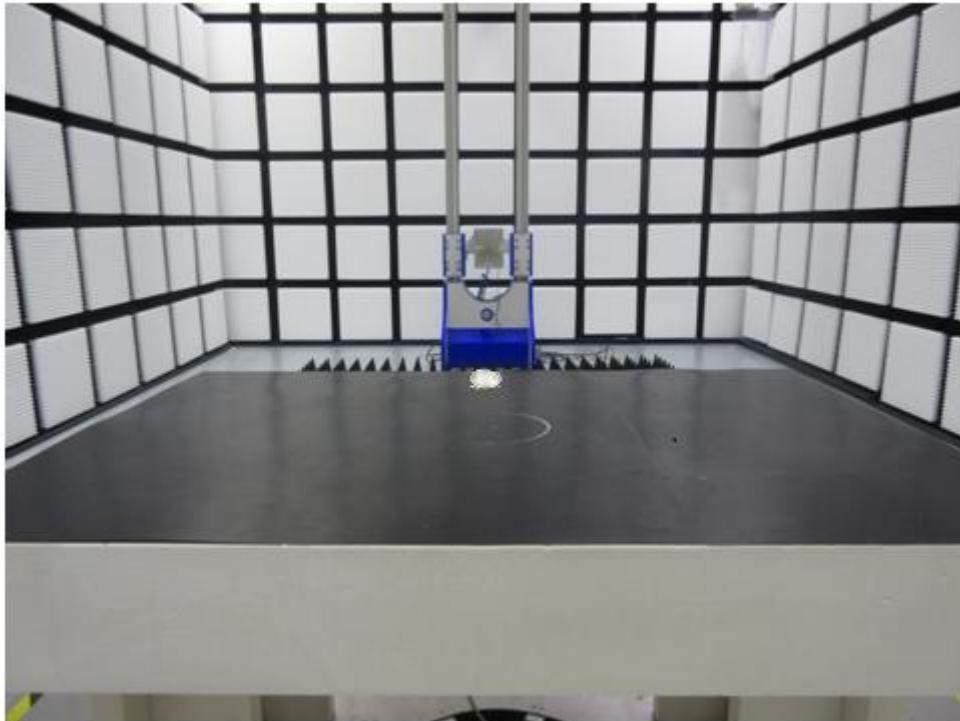


Appendix A

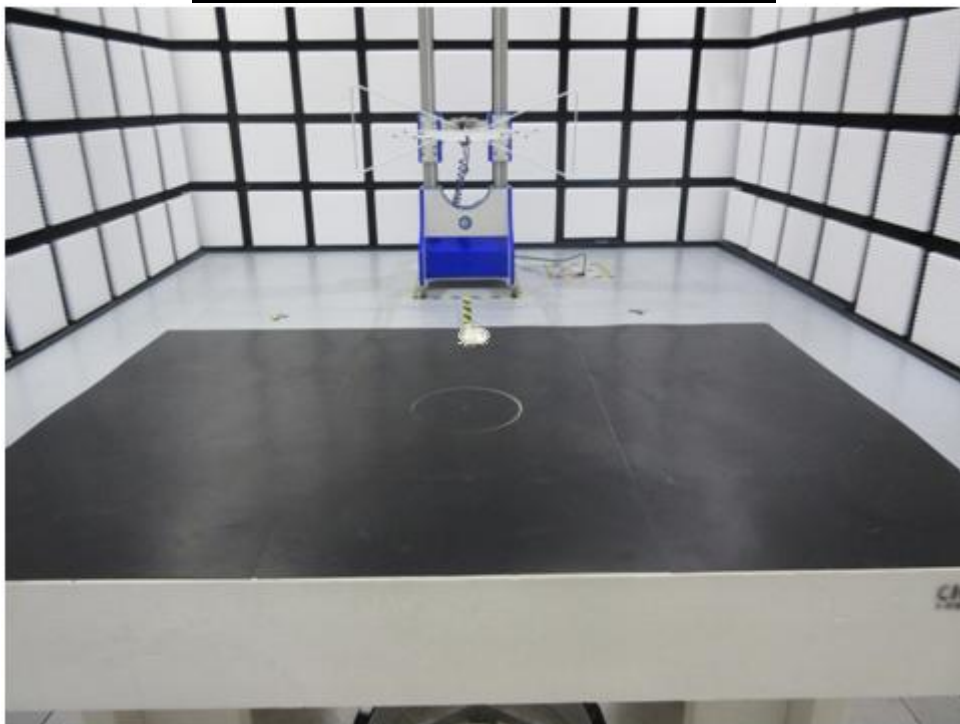


9 Appendix B - Setup Photographs of EUT

Spurious Radiated Emission 1GHz-25GHz / Bandedge Emission

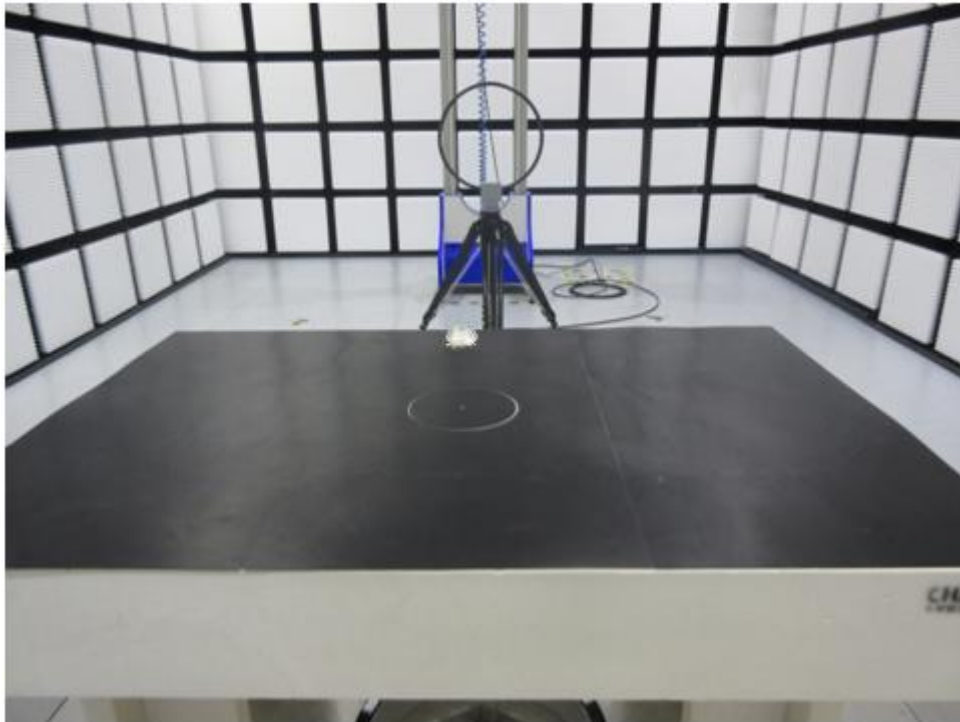


Spurious Radiated Emission 30MHz-1GHz



Appendix B

Spurious Radiated Emission 9kHz-30MHz



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 D01v06 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 2.402GHz = 0.1153 mW EIRP

Power at 2.440GHz = 0.1047 mW EIRP

Power at 2.480GHz = 0.1150 mW EIRP

$[(0.1153 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.0357$ which is ≤ 3.0 for 1-g SAR.

$[(0.1047 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.0327$ which is ≤ 3.0 for 1-g SAR.

$[(0.1150 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.0362$ 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 mm. (Manufacturer specified the separation distance is: less than 5mm)

>> The power of EUT measured is:

- For 2402MHz: $0.1153\text{mW} = 10 \log(0.1153) \text{ dBm} \sim -9.38\text{dBm}$
- For 2440MHz: $0.1047\text{mW} = 10 \log(0.1047) \text{ dBm} \sim -9.80\text{dBm}$
- For 2480MHz: $0.1150\text{mW} = 10 \log(0.1150) \text{ dBm} \sim -9.39\text{dBm}$