

FCC - TEST REPORT

Report Number : **60.790.16.106.01R01** Date of Issue : December 12, 2016

Model : **MU170517005, MU170517006**

Product Type : **E-Bike computer**

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 : 46

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	E-Bike computer
Model no.:	MU170517005, MU170517006
FCC ID:	O4GDE48X
Rating:	1) 12.0VDC 2) For memory: 3.0VDC (1 x 3.0VDC size "CR2032" cell battery)
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 10-1-15 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	NIL
FCC Title 47 Part 15.247(a)(1) 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	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, Power Spectral Density – 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

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	16-18	☒	☐	☐
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	☒	☐	☐
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	25-28	☒	☐	☐
FCC Title 47 Part 15.247(e) Power Spectral Density	29-31	☒	☐	☐
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	32	☒	☐	☐

6 General Remarks

Remarks

Client informs that the model MU170517005 has the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with E-Bike computer, MU170517006. The difference lies only on disable a signal cable. (Client's confirmation letter shown at appendix C)

EMC tests were performed on model: MU170517006

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: October 27, 2016

Testing Start Date: October 28, 2016

Testing End Date: November 23, 2016

- 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: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.423	31.88	40	-8.12	Quasi Peak
176.847	37.65	43.5	-5.85	Quasi Peak
232.783	34.52	46	-11.48	Quasi Peak
528.680	32.69	46	-13.31	Quasi Peak
1004.330	35.22	74	-38.78	Peak
1004.330	20.65	54	-33.35	Average
1597.937	46.14	74	-27.86	Peak
1597.937	32.63	54	-21.37	Average
4804.000	38.55	74	-35.45	Peak
4804.000	28.92	54	-25.08	Average
7206.000	37.88	74	-36.12	Peak
7206.000	26.42	54	-27.58	Average
12010.000	47.87	74	-26.13	Peak
12010.000	37.59	54	-16.41	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.423	31.03	40	-8.97	Quasi Peak
176.847	35.48	43.5	-8.02	Quasi Peak
232.783	33.29	46	-12.71	Quasi Peak
528.680	31.09	46	-14.91	Quasi Peak
1004.330	37.25	74	-36.75	Peak
1004.330	26.44	54	-27.56	Average
1597.937	41.58	74	-32.42	Peak
1597.937	21.72	54	-32.28	Average
4804.000	35.25	74	-38.75	Peak
4804.000	24.97	54	-29.03	Average
7206.000	41.04	74	-32.96	Peak
7206.000	30.85	54	-23.15	Average
12010.000	42.76	74	-31.24	Peak
12010.000	32.33	54	-21.67	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.660	30.03	40	-9.97	Quasi Peak
175.482	32.50	43.5	-11.00	Quasi Peak
230.155	31.55	46	-14.45	Quasi Peak
528.795	30.95	46	-15.05	Quasi Peak
1197.000	41.57	74	-32.43	Peak
1197.000	20.92	54	-33.08	Average
1625.210	39.28	74	-34.72	Peak
1625.210	30.01	54	-23.99	Average
4880.025	34.25	74	-39.75	Peak
4880.025	24.07	54	-29.93	Average
7556.718	39.00	74	-35.00	Peak
7556.718	28.41	54	-25.59	Average
12200.210	46.90	74	-27.10	Peak
12200.210	37.83	54	-16.17	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.660	29.25	40	-10.75	Quasi Peak
175.482	31.92	43.5	-11.58	Quasi Peak
230.155	31.49	46	-14.51	Quasi Peak
528.795	30.81	46	-15.19	Quasi Peak
1197.000	39.54	74	-34.46	Peak
1197.000	29.27	54	-24.73	Average
1593.062	43.11	74	-30.89	Peak
1593.062	32.85	54	-21.15	Average
4880.156	40.46	74	-33.54	Peak
4880.156	29.72	54	-24.28	Average
7319.062	43.23	74	-30.77	Peak
7319.062	32.61	54	-21.39	Average
12200.210	43.33	74	-30.67	Peak
12200.210	32.88	54	-21.12	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
60.055	30.15	40	-9.85	Quasi Peak
175.550	32.84	43.5	-10.66	Quasi Peak
231.075	29.77	46	-16.23	Quasi Peak
530.005	31.26	46	-14.74	Quasi Peak
1202.005	40.08	74	-33.92	Peak
1202.005	29.94	54	-24.06	Average
1595.625	43.37	74	-30.63	Peak
1595.625	33.48	54	-20.52	Average
4880.156	45.84	74	-28.16	Peak
4880.156	36.11	54	-17.89	Average
7439.065	42.35	74	-31.65	Peak
7439.065	31.87	54	-22.13	Average
12400.450	46.97	74	-27.03	Peak
12400.450	36.54	54	-17.46	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

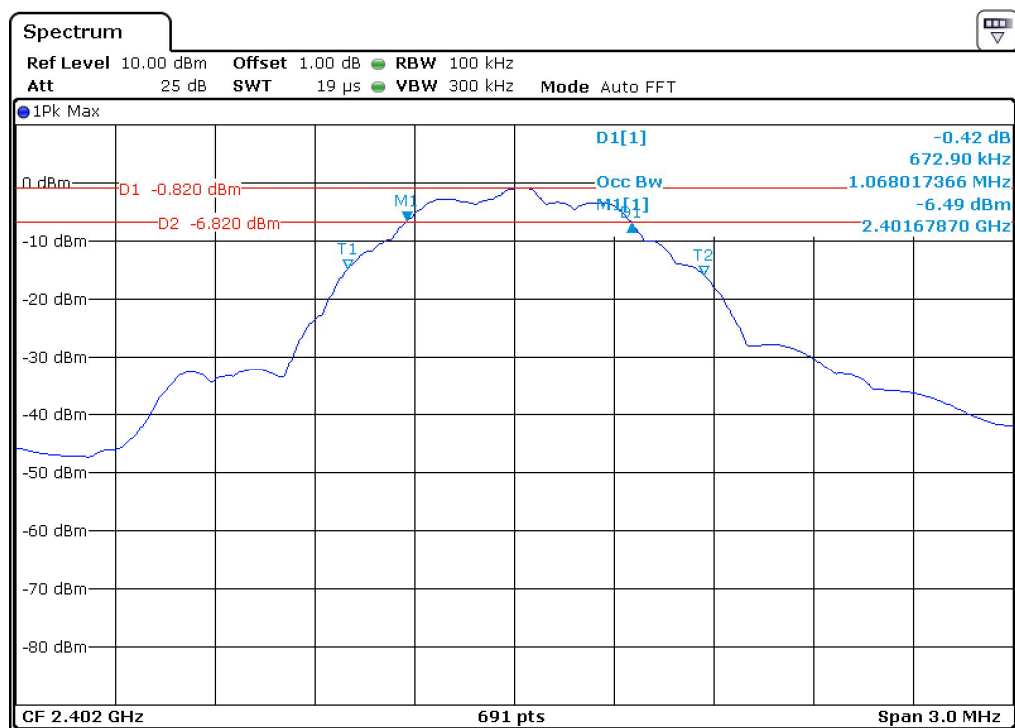
Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
60.055	29.85	40	-10.15	Quasi Peak
175.550	31.42	43.5	-12.08	Quasi Peak
231.075	28.53	46	-17.47	Quasi Peak
530.005	30.40	46	-15.60	Quasi Peak
1202.005	37.22	74	-36.78	Peak
1202.005	26.40	54	-27.60	Average
1595.625	45.47	74	-28.53	Peak
1595.625	34.92	54	-19.08	Average
4880.156	36.29	74	-37.71	Peak
4880.156	26.33	54	-27.67	Average
7527.185	40.80	74	-33.20	Peak
7527.185	31.51	54	-22.49	Average
12400.450	47.14	74	-26.86	Peak
12400.450	36.93	54	-17.07	Average

7.2 6dB & 99% Bandwidth

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 12.0VDC

Test Result	
☒	Passed
☐	Not Passed



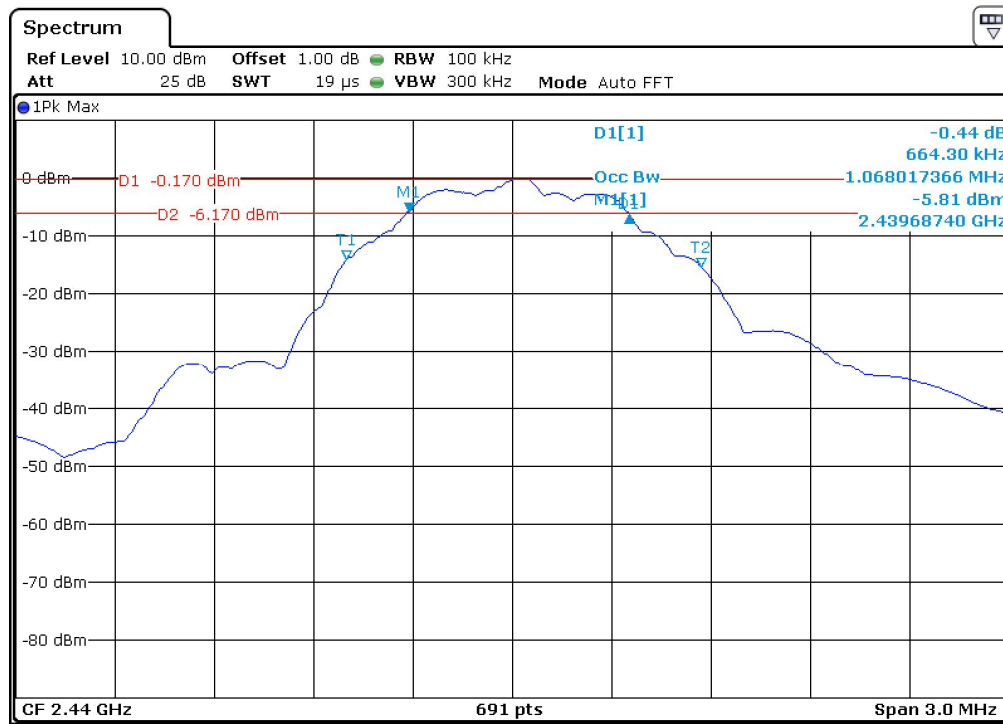
6dB bandwidth	Limit
672.900 kHz	>500 kHz

99% bandwidth
1068.017 kHz

6dB & 99% Bandwidth

EUT: MU170517006
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed



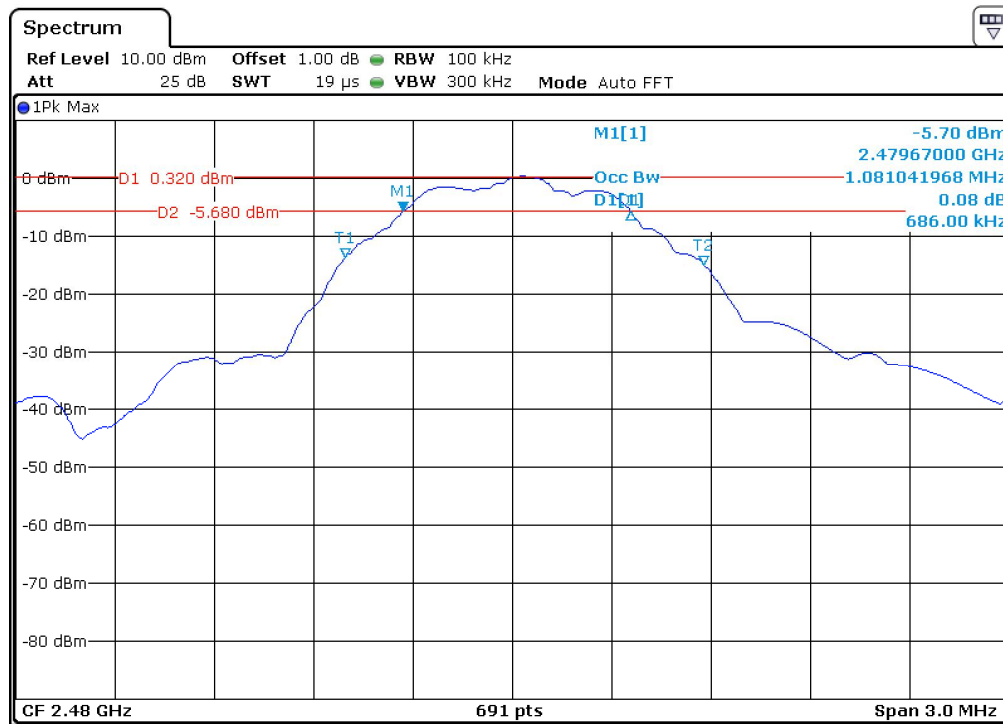
6dB bandwidth	Limit
664.300 kHz	>500 kHz

99% bandwidth
1068.017 kHz

6dB & 99% Bandwidth

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed



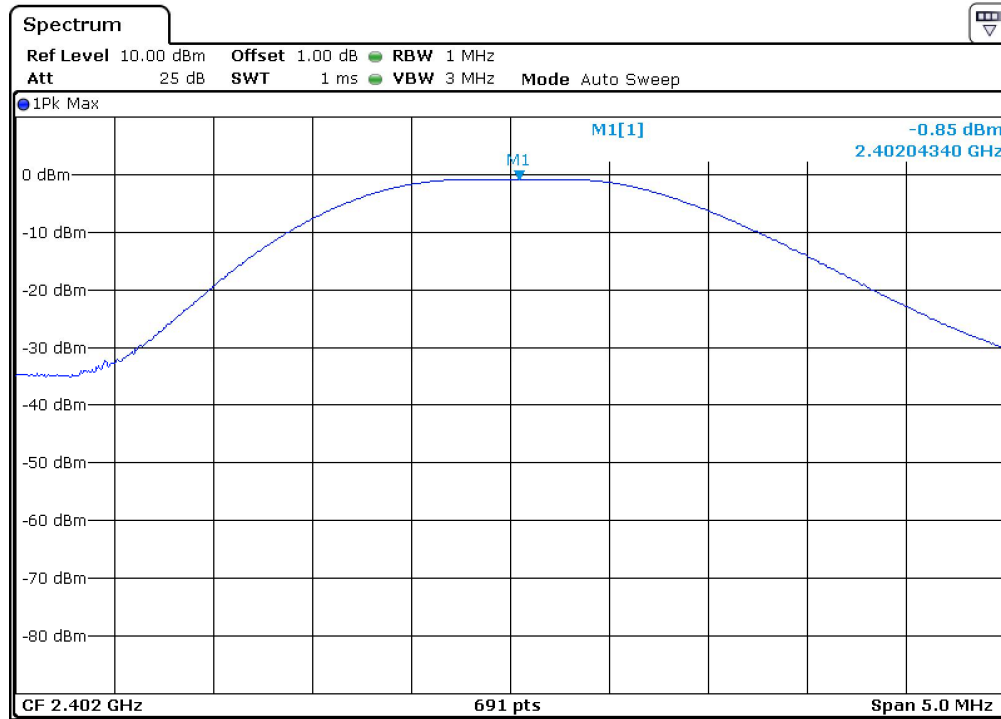
6dB bandwidth	Limit
686.000 kHz	>500 kHz

99% bandwidth
1081.041 kHz

7.3 Peak Output Power

EUT: MU170517006
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(b)
Comment: 12.0VDC, Antenna gain: 0 dBi,
Cable Loss: 1.0dB

Test Result	
☒	Passed
☐	Not Passed

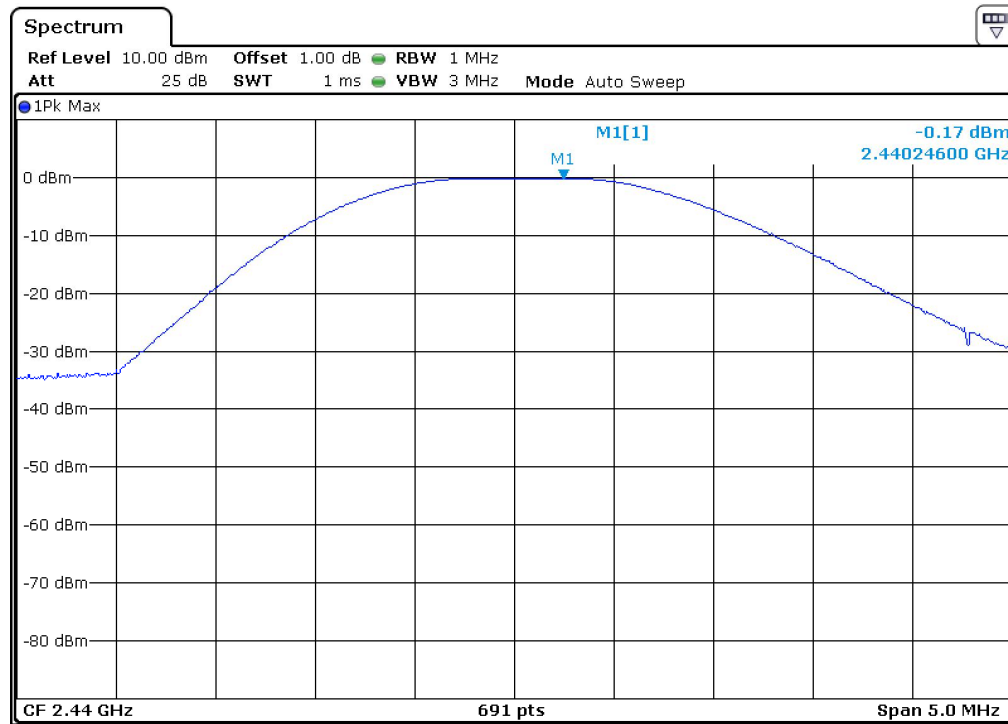


Conducted Output Power	Limit
-0.05dBm	30dBm

Peak Output Power

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(b)
 Comment: 12.0VDC, Antenna gain: 0 dBi,
 Cable Loss: 1.0dB

Test Result	
☒	Passed
☐	Not Passed

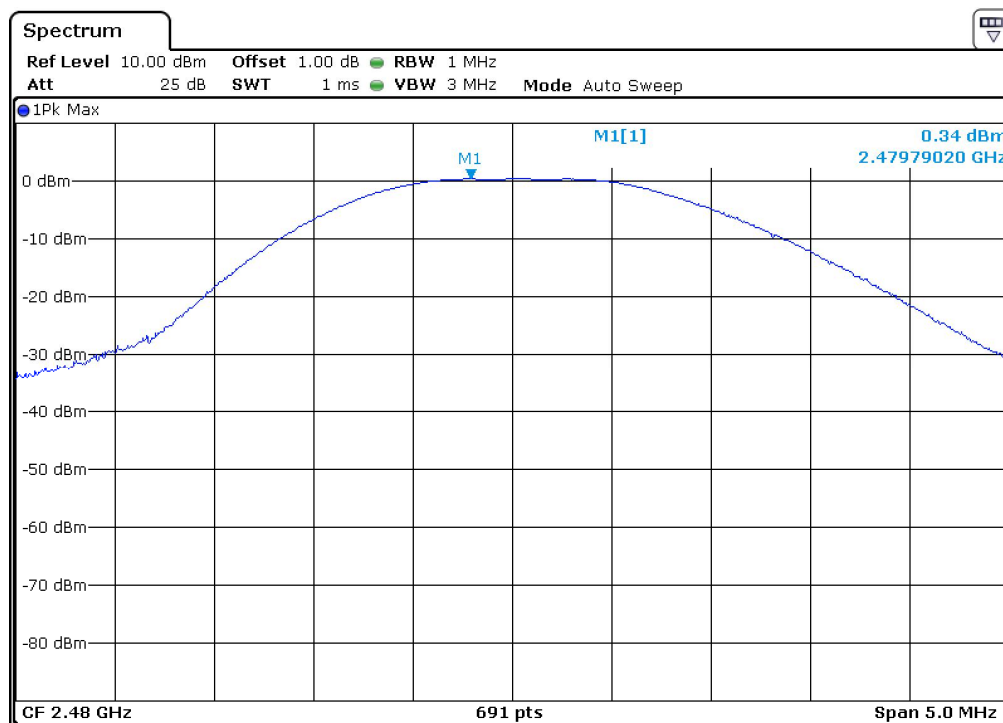


Conducted Output Power	Limit
-0.17dBm	30dBm

Peak Output Power

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 12.0VDC, Antenna gain: 0 dBi,
 Cable Loss: 1.0dB

Test Result	
☒	Passed
☐	Not Passed

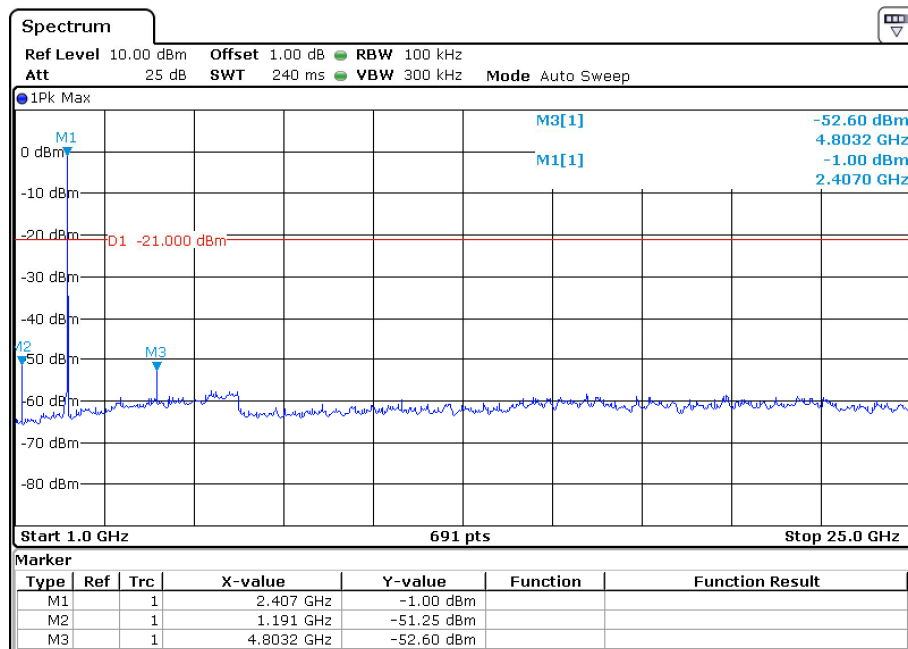
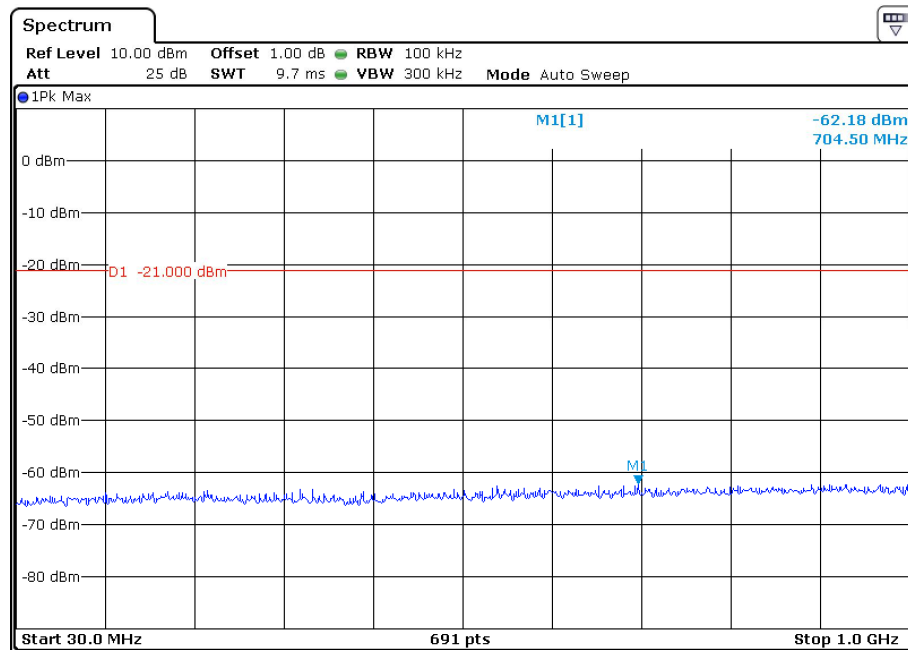


Conducted Output Power	Limit
0.34dBm	30dBm

7.4 Spurious Emissions at Antenna Terminals

EUT: MU170517006
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 12.0VDC

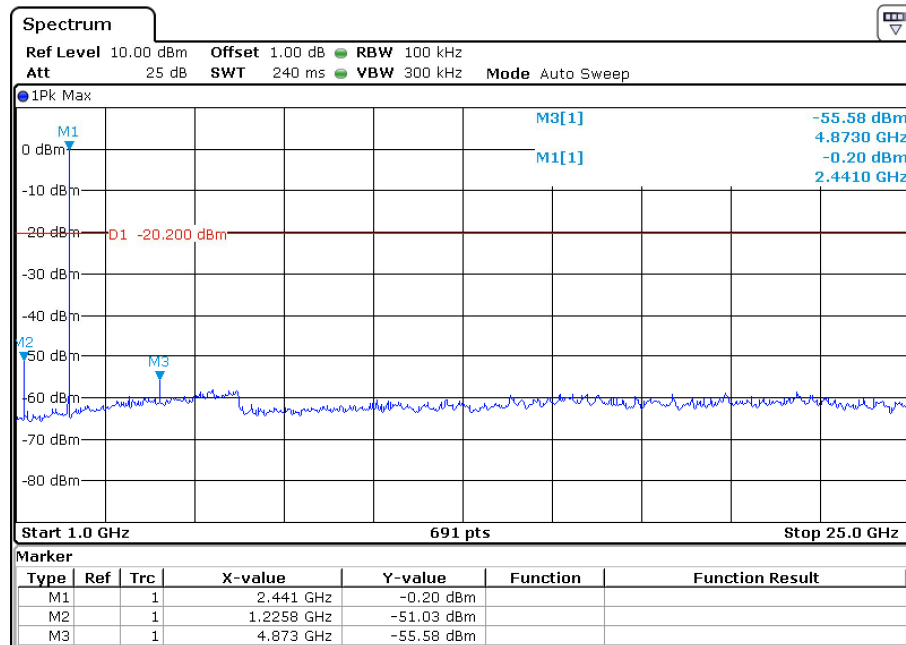
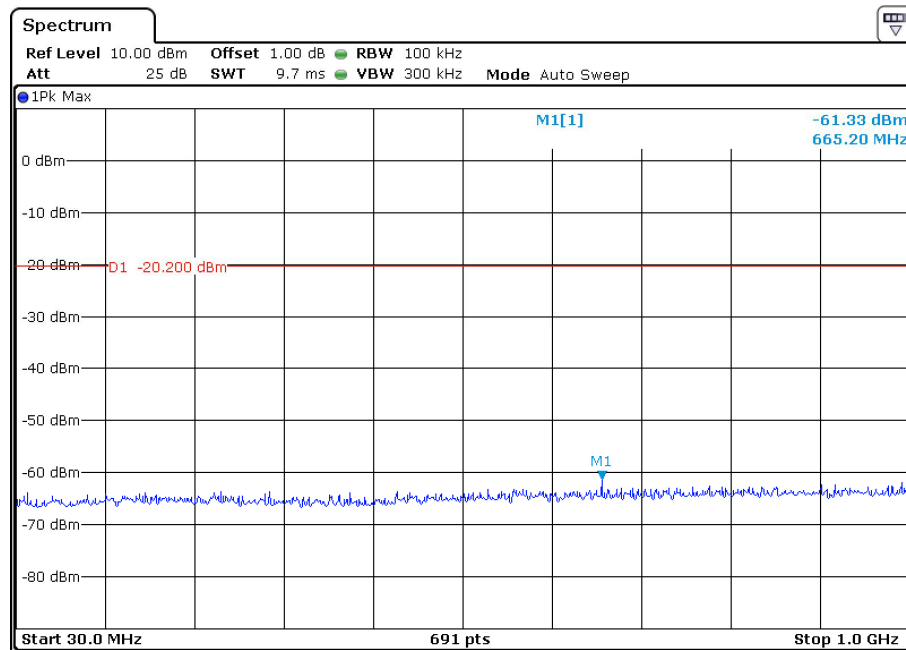
Test Result
☒ Passed
☐ Not Passed



Spurious Emissions at Antenna Terminals

EUT: MU170517006
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 12.0VDC

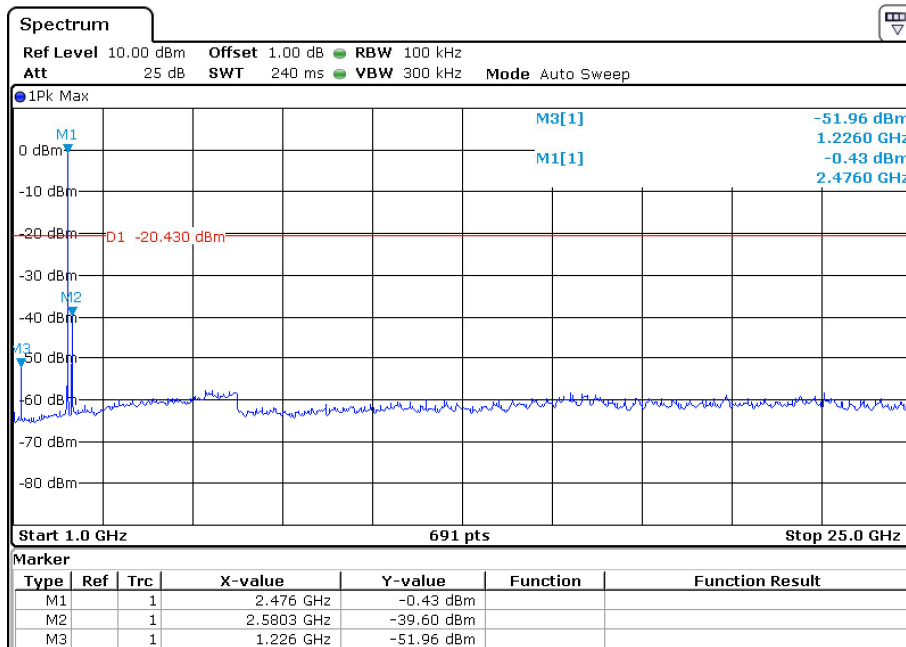
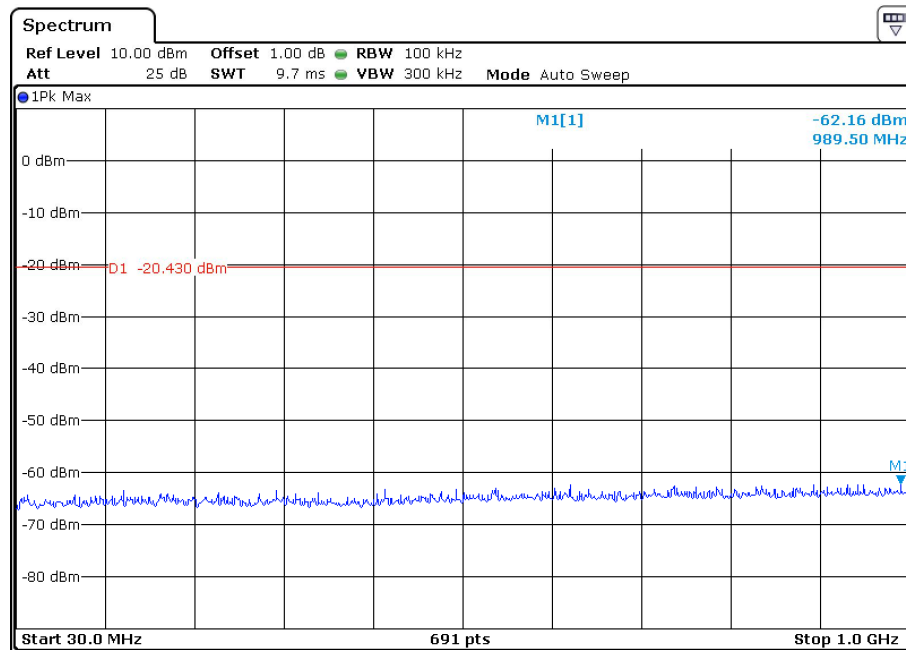
Test Result
☒ Passed
☐ Not Passed



Spurious Emissions at Antenna Terminals

EUT: MU170517006
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 12.0VDC

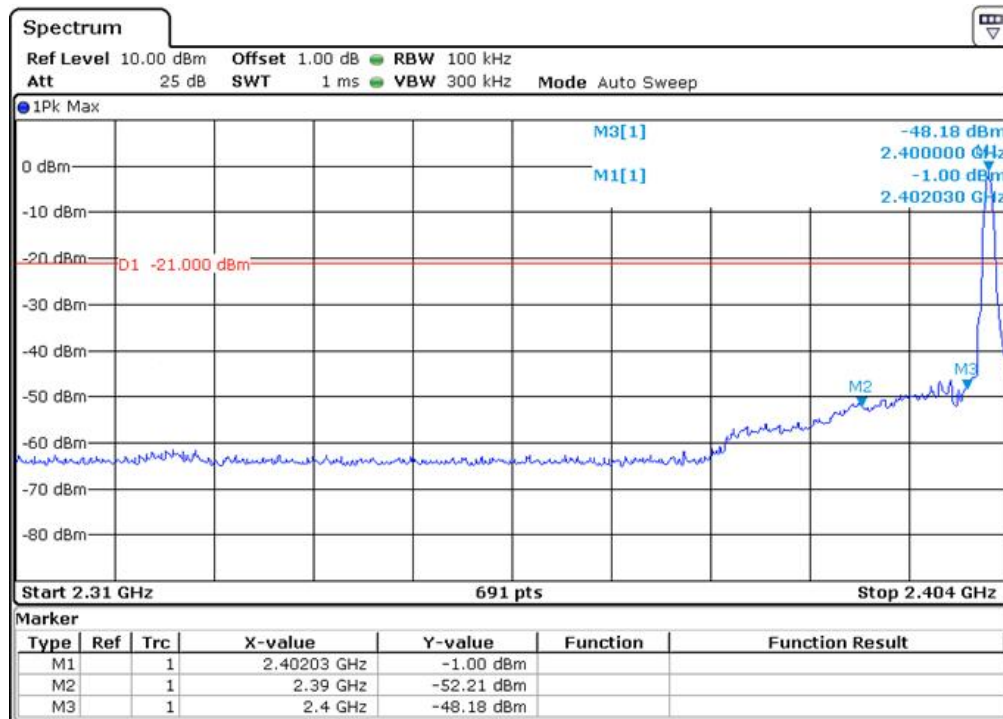
Test Result
☒ Passed
☐ Not Passed



7.5 100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 12.0VDC

Test Result	
☒	Passed
☐	Not Passed



Band edges	Limit
47.18 dB	> 20dB

100kHz Bandwidth of band edges

EUT: MU170517006
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(d), Radiated
Comment: 12.0VDC

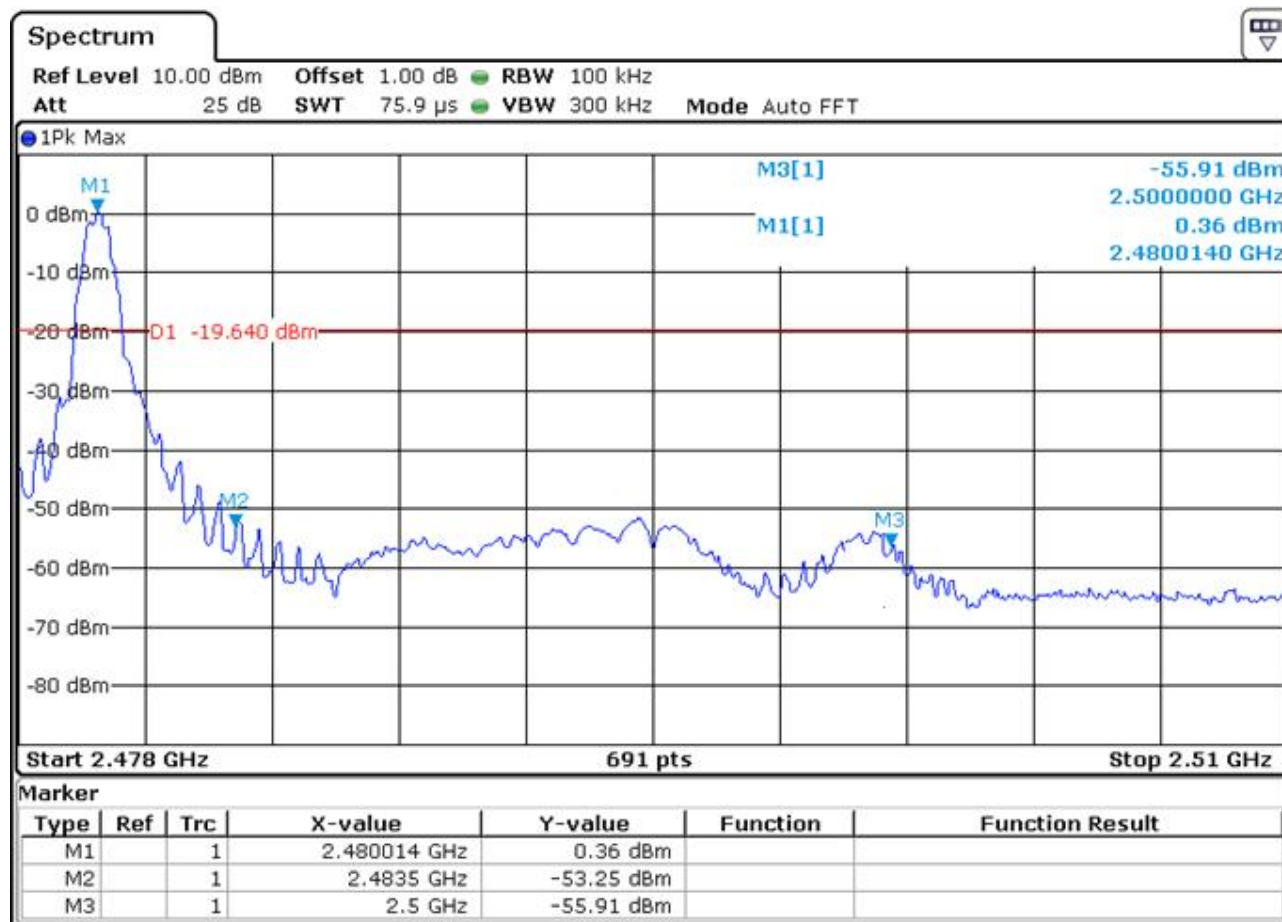
Test Result
☒ Passed
☐ Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2390.000	43.02	74	-30.98	Peak
2390.000	32.72	54	-21.28	Average

100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed



Band edges	Limit
52.89 dB	> 20dB

100kHz Bandwidth of band edges

EUT: MU170517006
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(d), Radiated
Comment: 12.0VDC

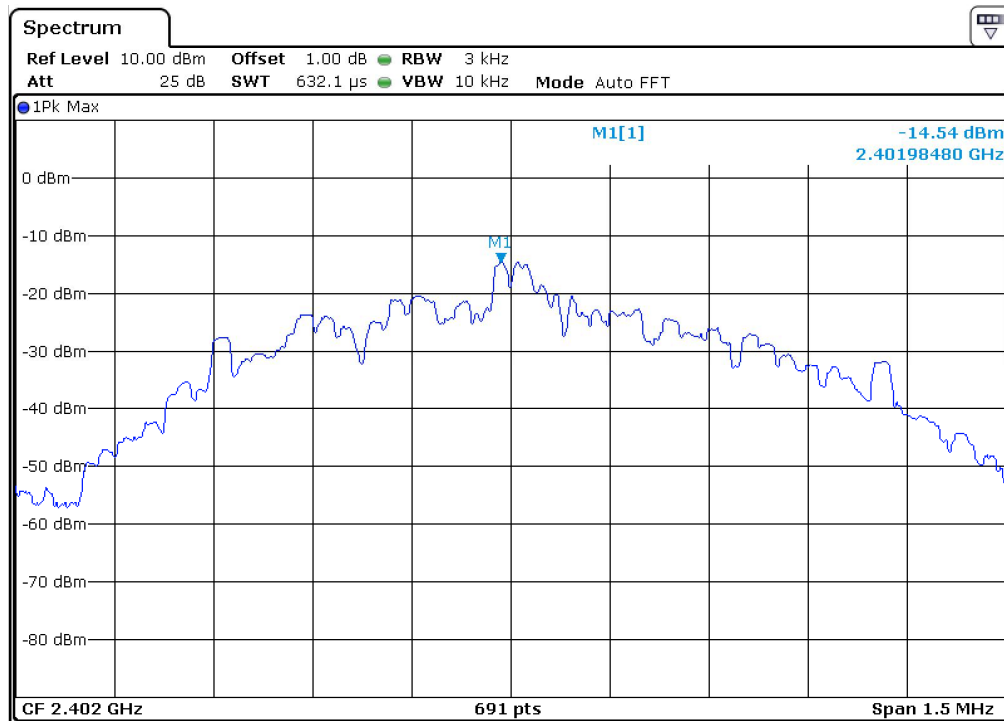
Test Result
☒ Passed
☐ Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2483.500	41.98	74	-32.02	Peak
2483.500	30.25	54	-23.75	Average

7.6 Power Special Density

EUT: MU170517006
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(e)
Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed

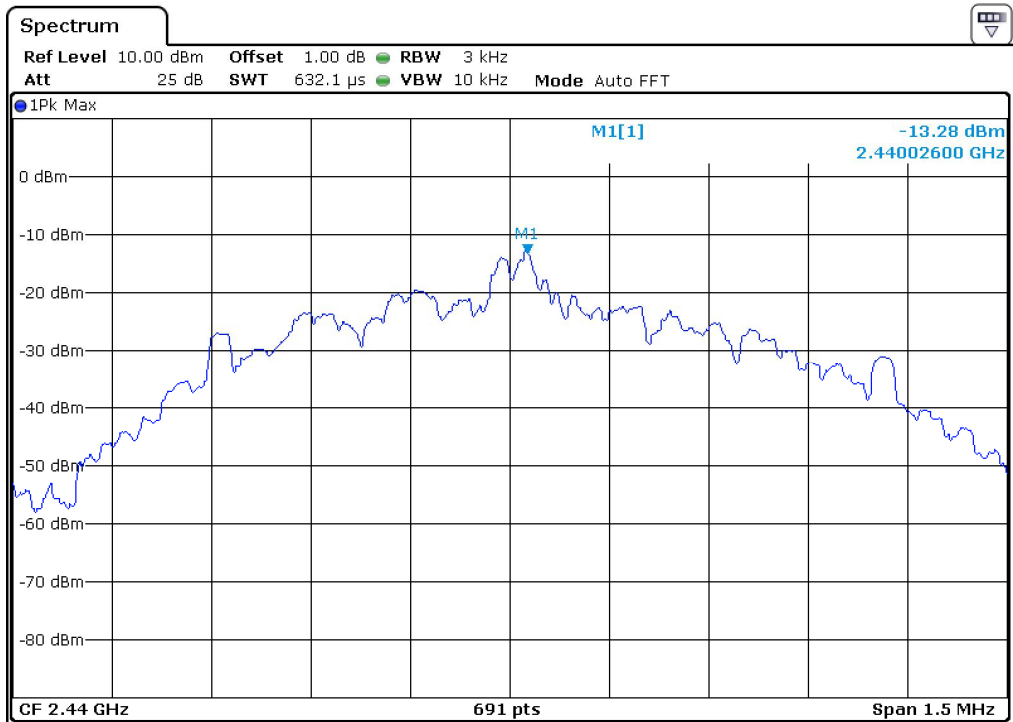


PSD	Limit
-14.54 dBm	< 8 dBm

Power Special Density

EUT: MU170517006
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(e)
Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed

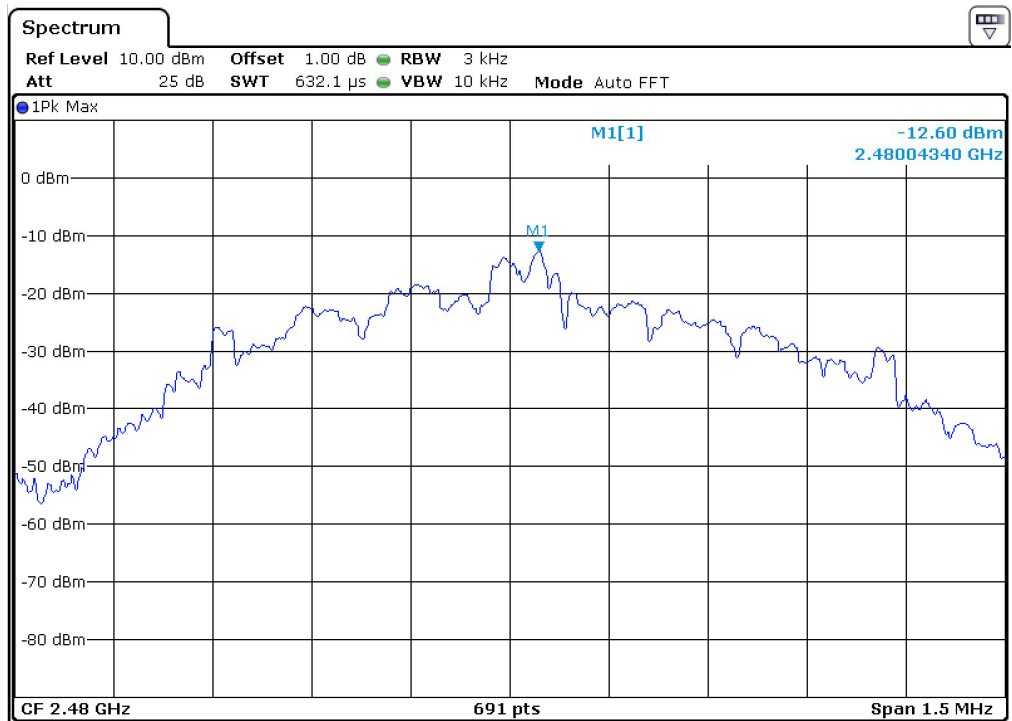


PSD	Limit
-13.28 dBm	< 8 dBm

Power Special Density

EUT: MU170517006
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(e)
Comment: 12.0VDC

Test Result
☒ Passed
☐ Not Passed



PSD	Limit
-12.60 dBm	< 8 dBm

7.7 Antenna Requirement

EUT: MU170517006
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 12.0VDC

Test Result	
☒	Passed
☐	Not Passed

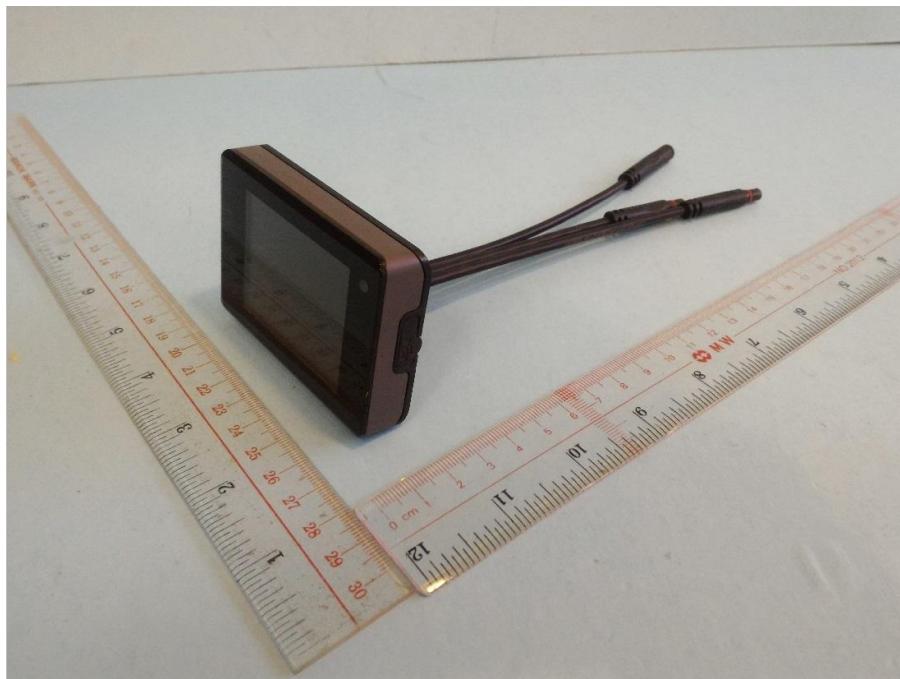
Limit

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.

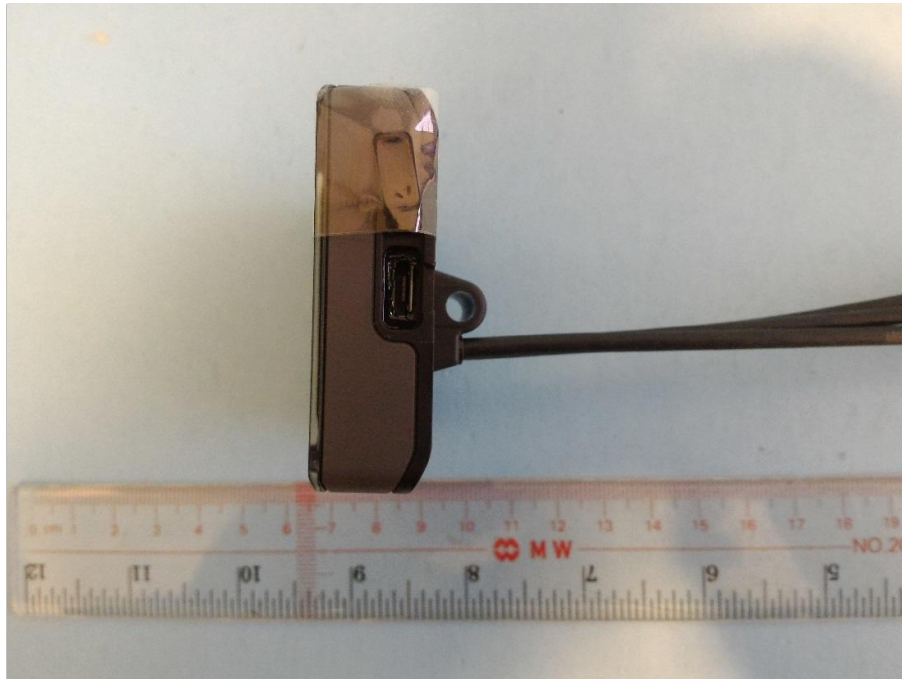
8 Appendix A - Photographs of EUT



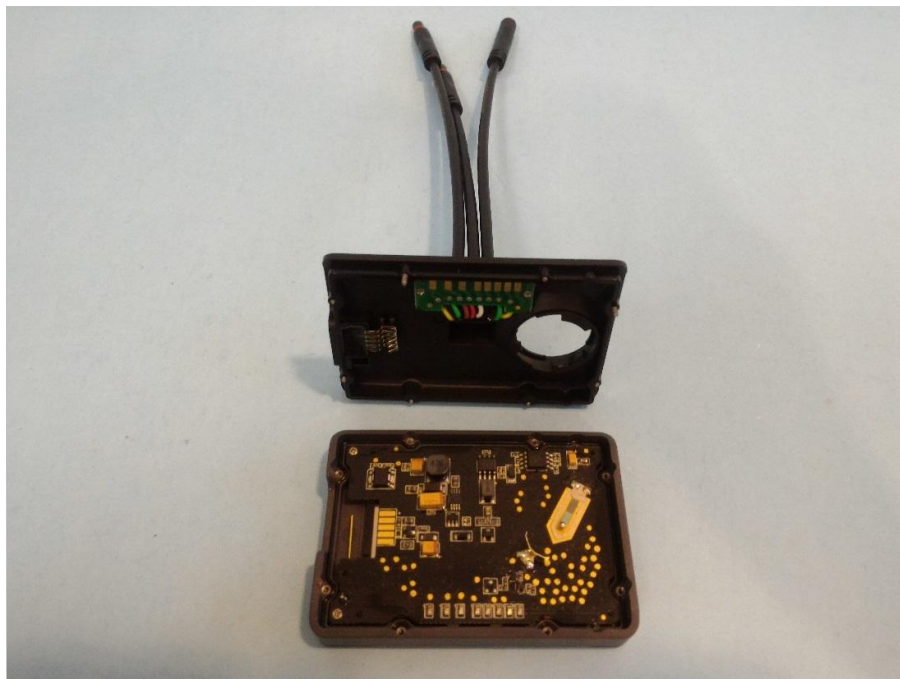
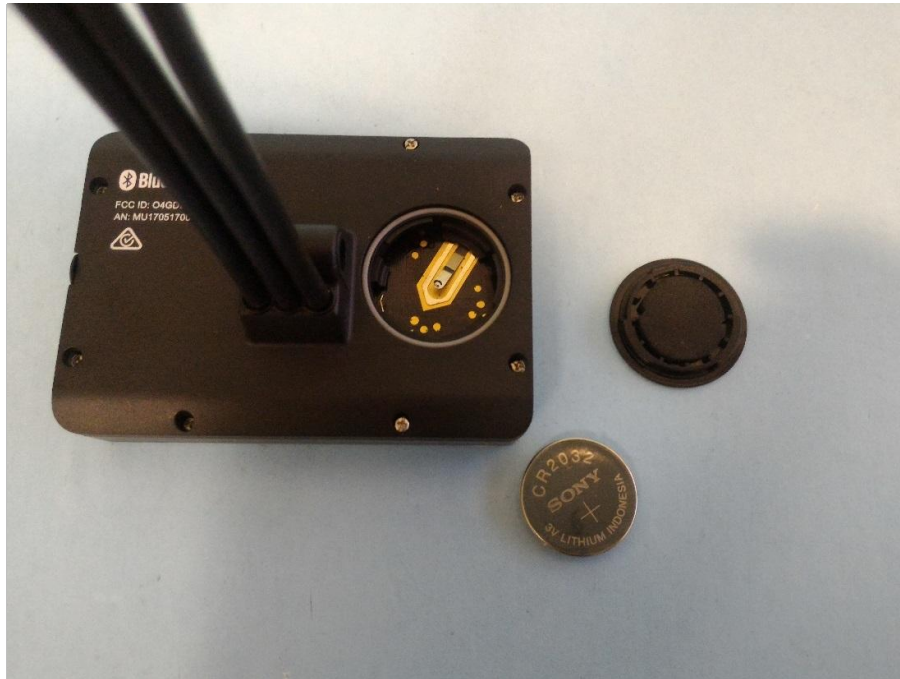
Appendix A



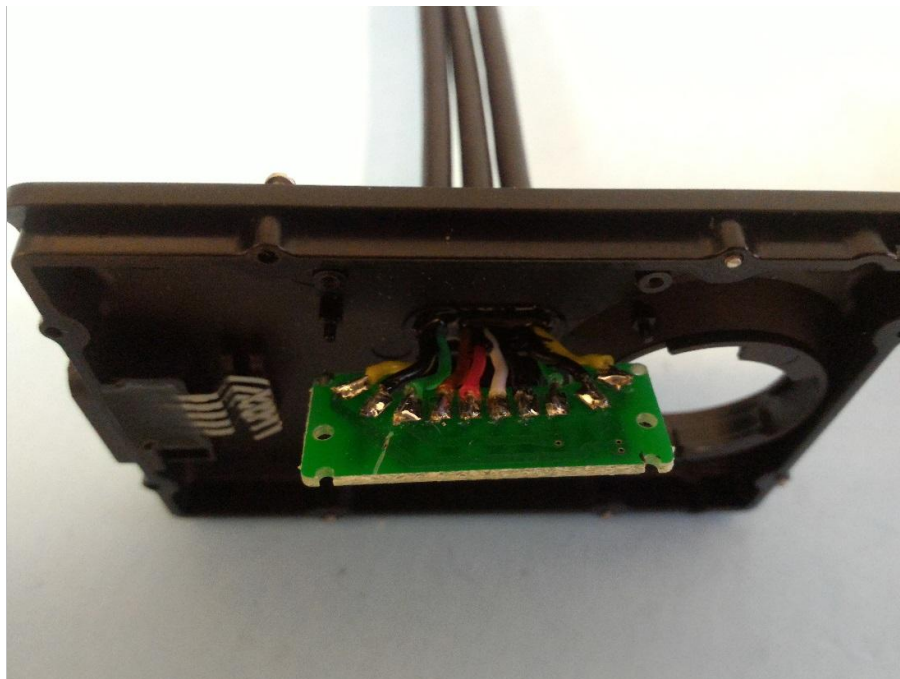
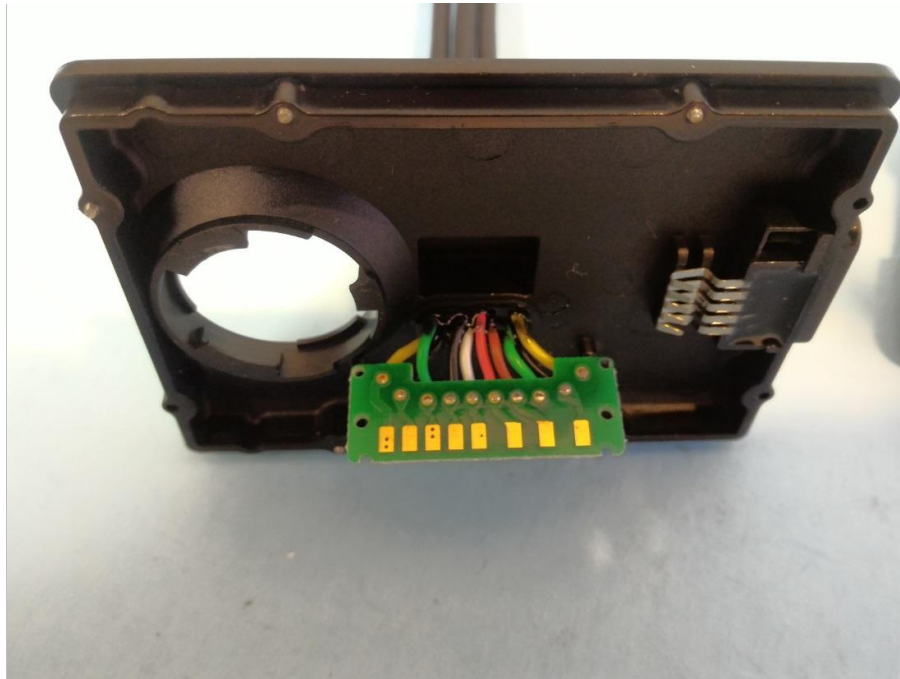
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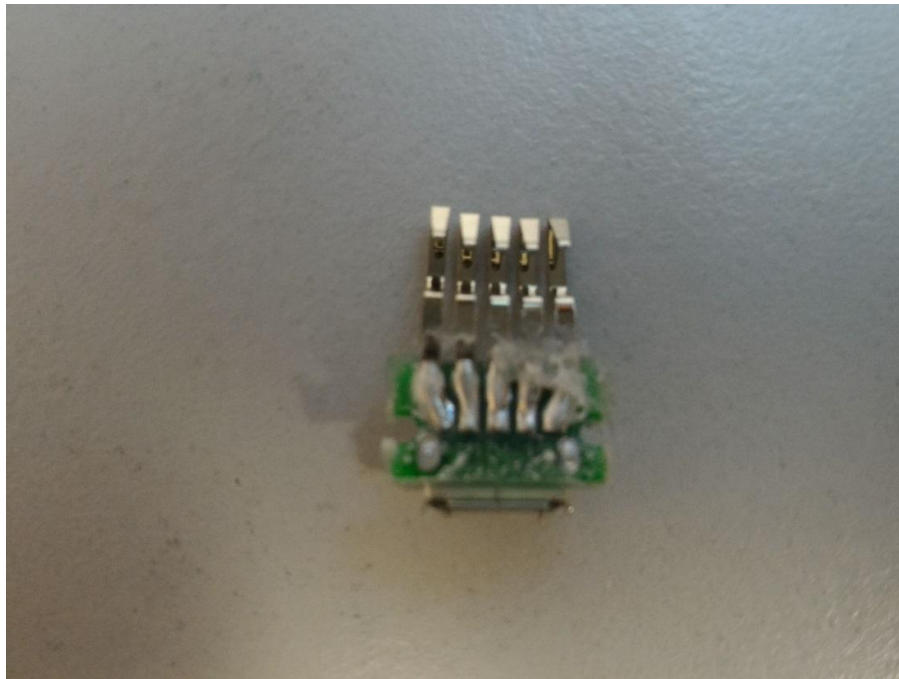
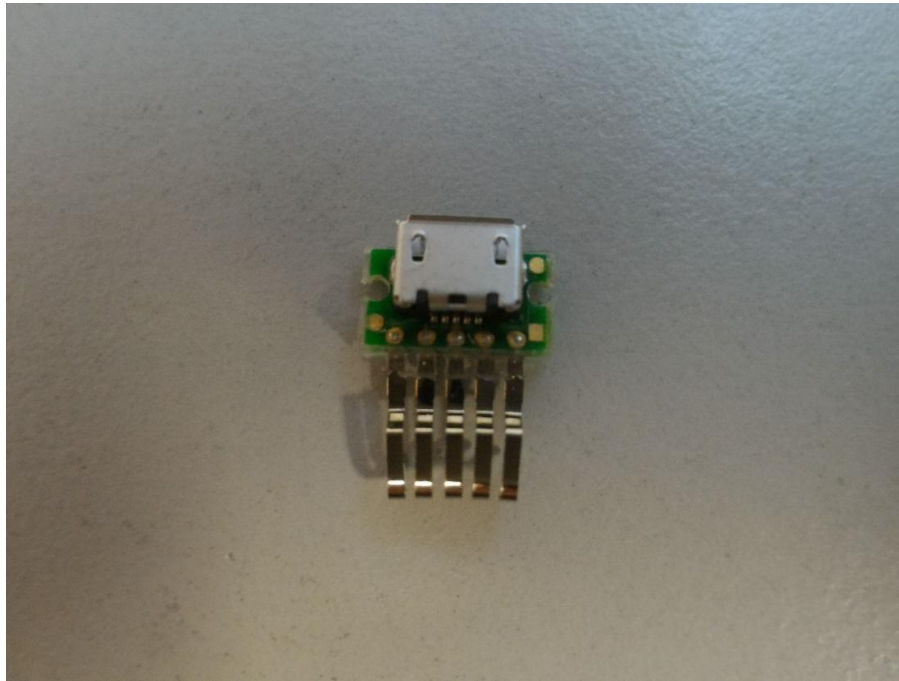
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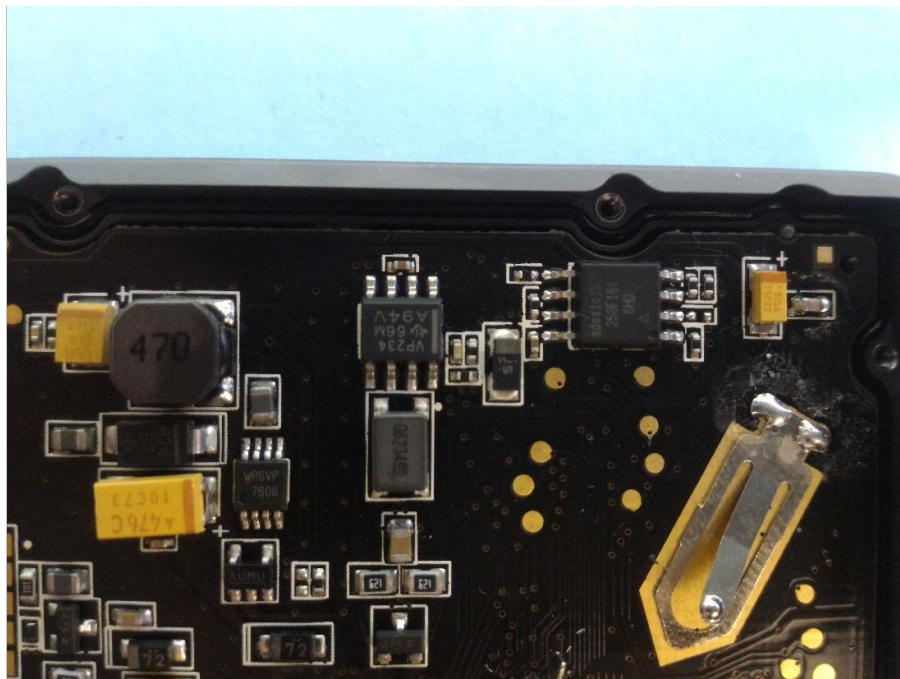
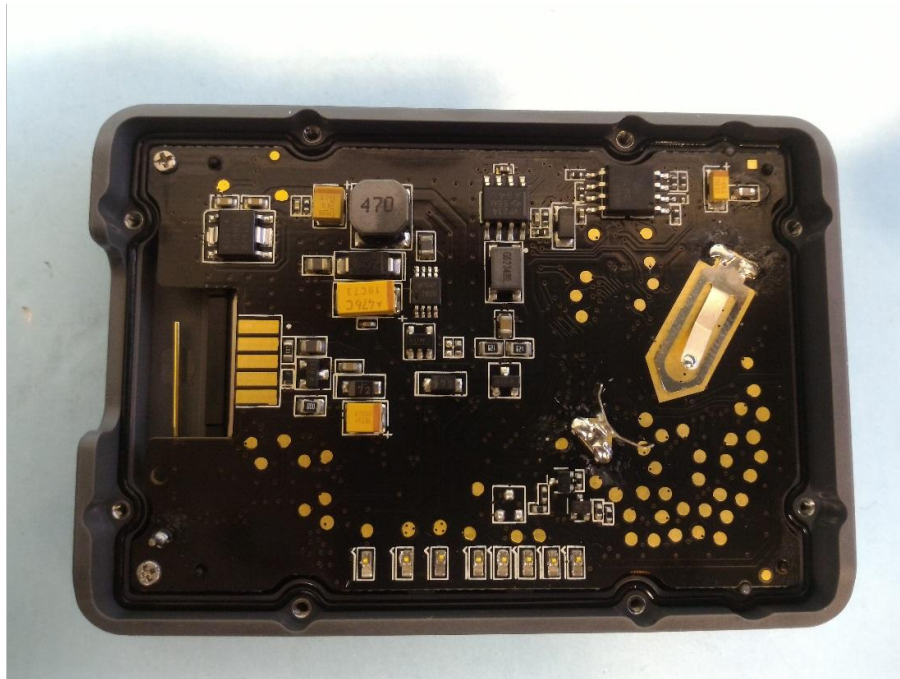
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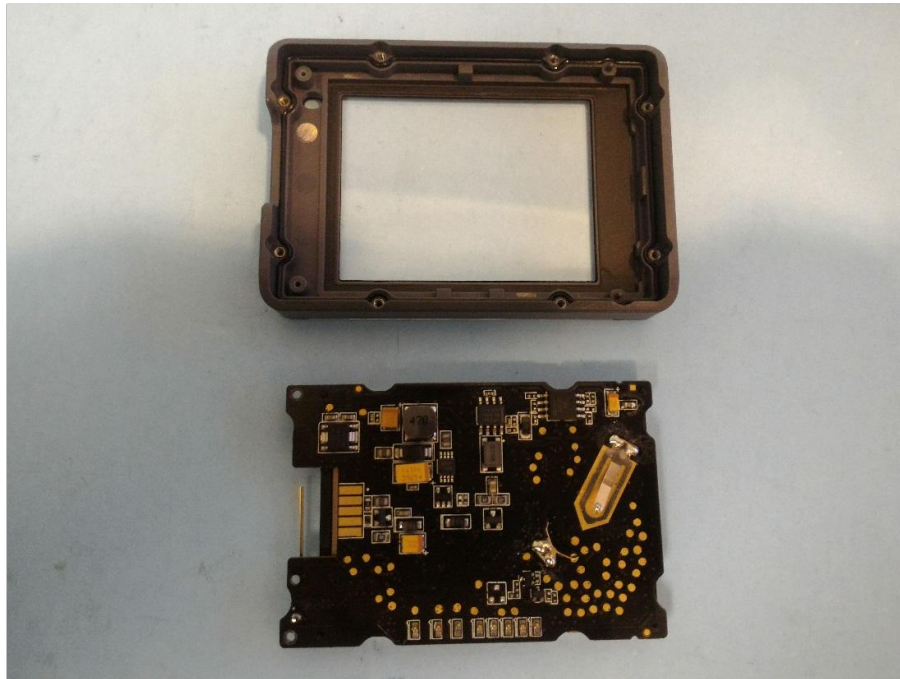
Appendix A



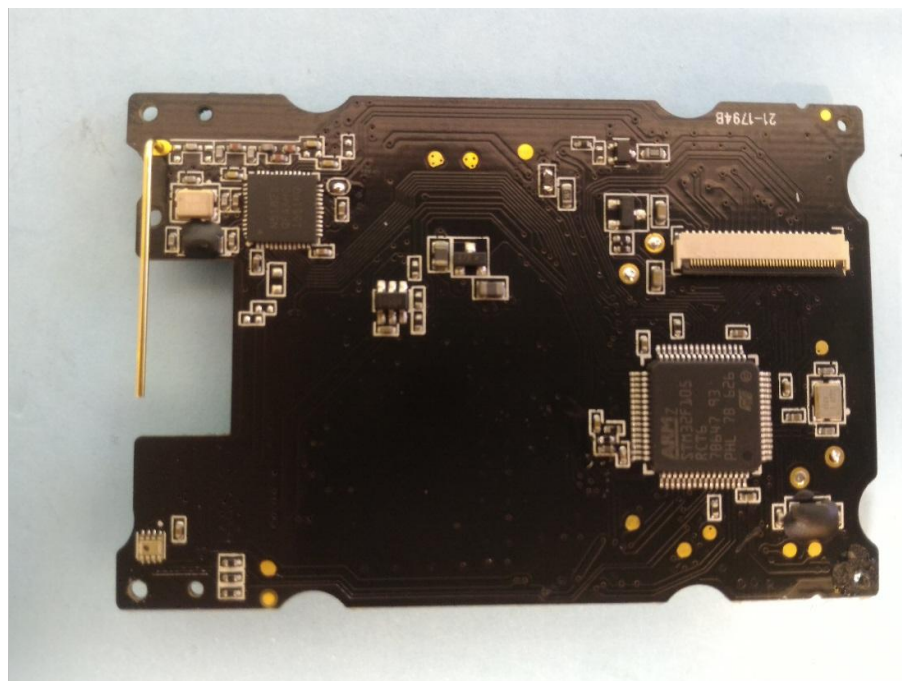
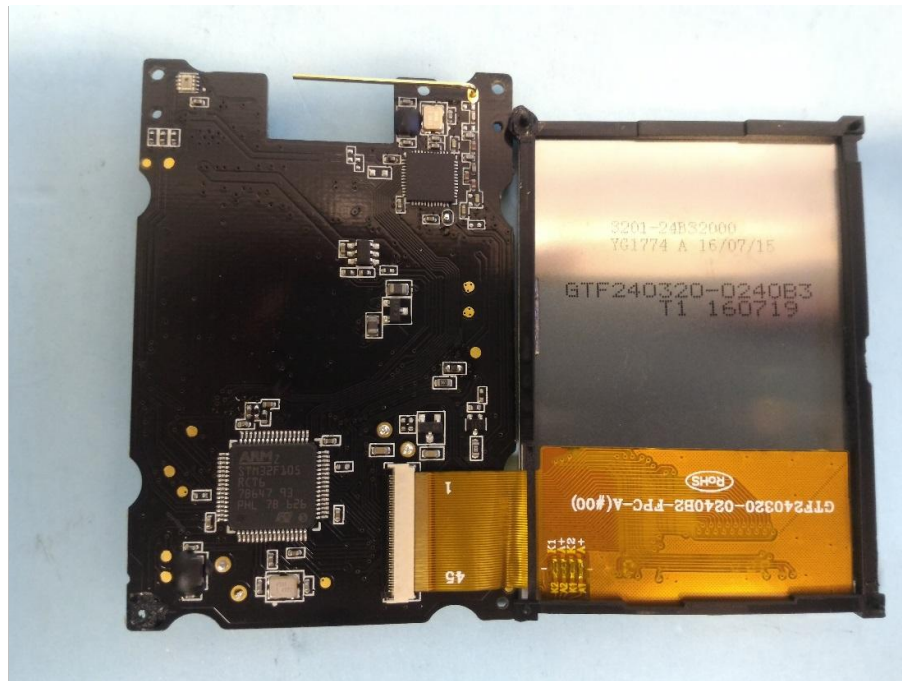
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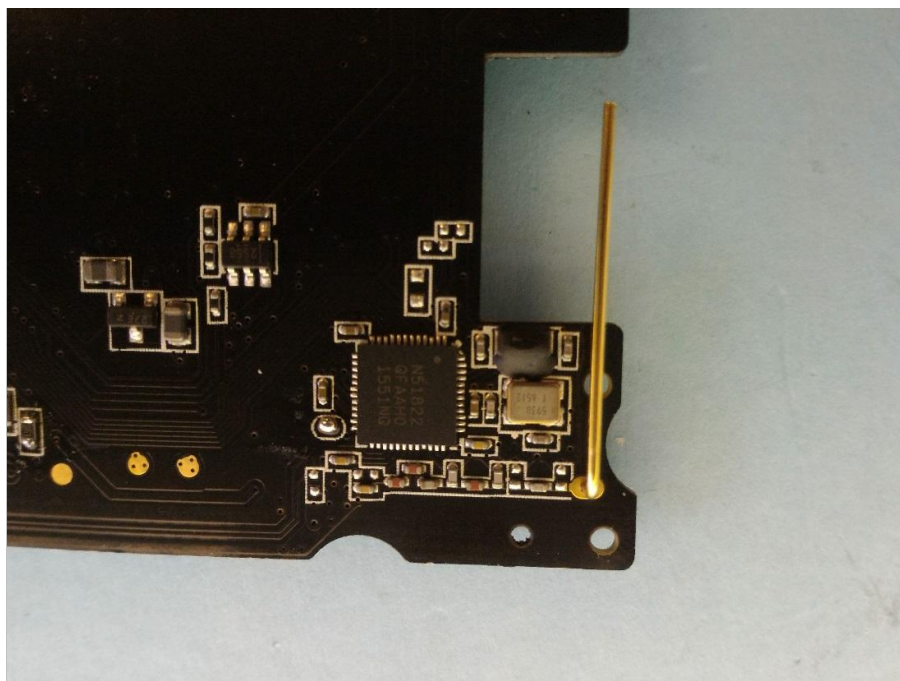
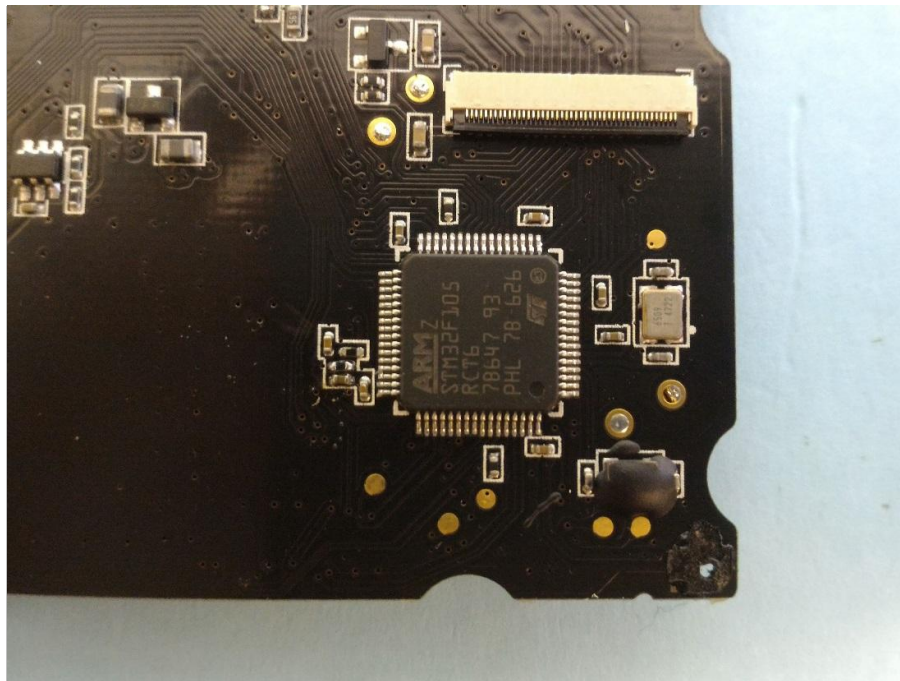
Appendix A



Appendix A

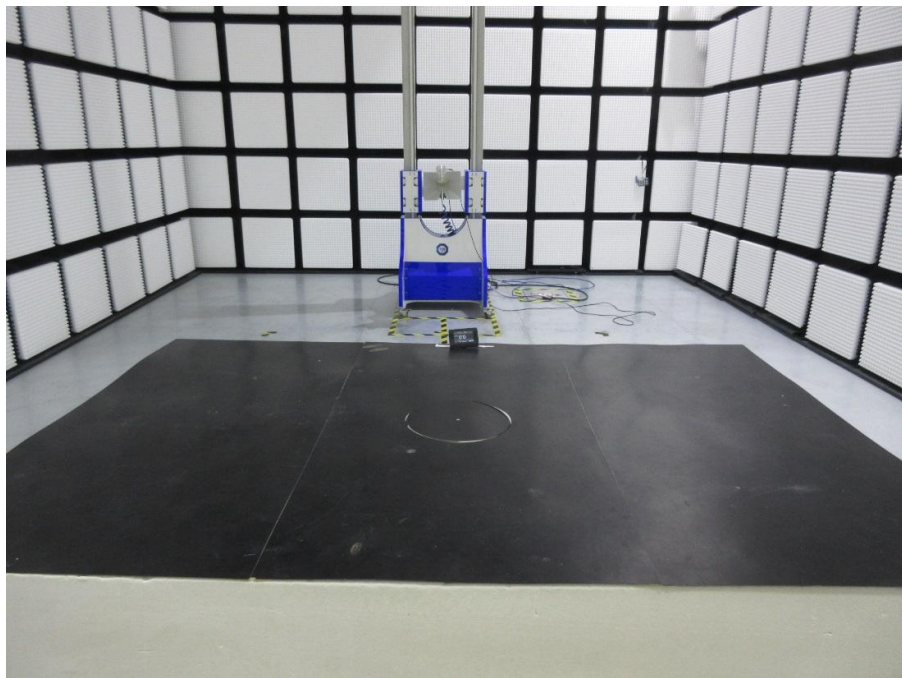


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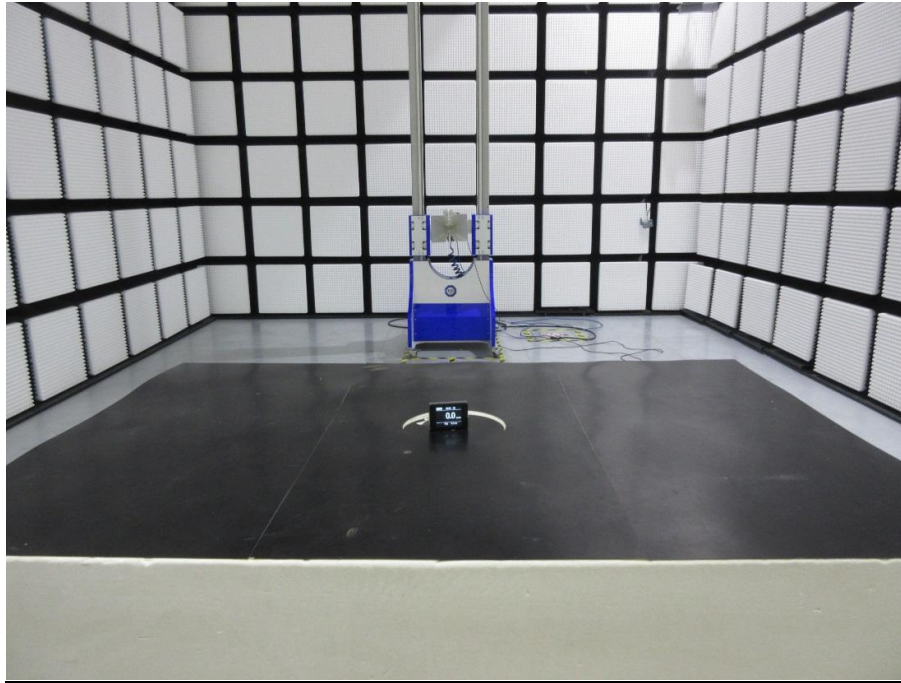


9 Appendix B - Setup Photographs of EUT

Spurious Radiated Emission



Appendix B



**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: 20mm)

Step a)

>> Numeric threshold (2402MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2402MHz) $\leq 38.713\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 38.411\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 38.100\text{mW}$

>> The power of EUT measured (2402MHz) is: $-0.05\text{dBm} = 0.989\text{mW}$
The power of EUT measured (2440MHz) is: $-0.17\text{dBm} = 0.962\text{mW}$
The power of EUT measured (2480MHz) is: $0.34\text{dBm} = 1.081\text{mW}$
Which is smaller than the Numeric threshold.
Therefore, the device is exempt from stand-alone SAR test requirements.

Appendix C

To: TÜV SÜD HKG Ltd.

Attention: **Mr. Edmond Fung**
From: **Mr. Wong Lap Fai**
Fax No:

Date: November 25, 2016
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 disable a signal cable.

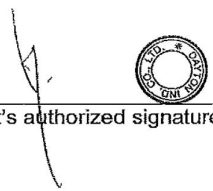
<<Additional Model >>: MU170517005

<<Main Test Model >>: MU170517006

<<Product>>: E-Bike computer

Applicant:

25 Nov 2016
(Date)


(Applicant's authorized signature and company Chop)