

FCC - TEST REPORT

Report Number : **60.790.18.060.01R01** Date of Issue : January 23, 2019

Model : **RIDEtime ELITE**

Product Type : **Bike Computer**

Applicant : DAYTON INDUSTRIAL CO., LTD

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

Production Facility : KENDY ELECTRONICS (DONGGUAN) CO., LTD

Address : XIN SI HUANG TANG VILLAGE HENG LI TOWN, DONGGUANG CITY, GUANGDONG, CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 34

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval

1 Table of Contents

1 Table of Contents.....	2
2 Description of Equipment Under Test	3
3 Summary of Test Standards	4
4 Details about the Test Laboratory	5
4.1 Test Equipment Site List	6
4.2 Measurement System Uncertainty	7
5 Summary of Test Results.....	8
6 General Remarks.....	9
7 Emission Test Results	10
7.1 Spurious Radiated Emission	10
7.2 Conducted Emission at AC Power line.....	15
7.3 6dB & 99% Bandwidth	16
7.4 Peak Output Power.....	19
7.5 Spurious Emissions at Antenna Terminals.....	22
7.6 100kHz Bandwidth of band edges.....	28
7.7 Power Spectral Density.....	30
7.8 Antenna Requirement.....	33
8 Appendix A - General Product Information	34

2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: Bike Computer

Model no.: RIDetime ELITE

FCC ID: O4GRTELITE

Rating: 3V DC (CR2032 battery)

Frequency: 2402MHz-2480MHz (Tx and Rx)

Antenna gain: 0 dBi

Number of operated channel: 40

Modulation: GFSK

Auxiliary Equipment and Software Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Computer	Lenovo	X220	0A72168

Auxiliary Software Used during Test:

DESCRIPTION	SOFTWARE NAME	VERSION	REMARK
RF Test Mode Software	nRFgo	1.16	Provided by applicant

3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart C 10-1-17 Edition Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart C — Unintentional Radiators

All the tests were performed using the procedures from ANSI C63.4(2014) and ANSI C63.10 (2013).

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	2019-7-6
Signal Analyzer	Rohde & Schwarz	FSV40	101031	2019-7-6
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100398	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Wideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	12827	2019-7-12
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Pre-amplifier	Rohde & Schwarz	SCU 40A	100432	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

Conducted Emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2019-7-6
LISN	Rohde & Schwarz	ENV4200	100249	2019-7-6
LISN	Rohde & Schwarz	ENV432	101318	2019-7-6
LISN	Rohde & Schwarz	ENV216	100326	2019-7-6
ISN	Rohde & Schwarz	ENY81	100177	2019-7-6
ISN	Rohde & Schwarz	ENY81-CA6	101664	2019-7-6
High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-584	2019-6-30
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2019-6-30
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

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	2019-7-6
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	2019-7-6
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2019-7-6

4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.46dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;
Uncertainty for Conducted Emission at AC Power Line 150kHz-30MHz	3.21dB
Uncertainty for frequency test	0.6×10^{-7}

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	10-14	☒	☐	☐
FCC Title 47 Part 15.207 Conduct Emission (1)	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	22-27	☒	☐	☐
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	28-29	☒	☐	☐
FCC Title 47 Part 15.247(e) Power Spectral Density	30-32	☒	☐	☐
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	33	☒	☐	☐

Remark:

(1) Conducted Emission testing is not applicable for battery operating device.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for **FCC ID: O4GRTELITE**, complies with Section 15.203, 15.205, 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules for the DTS grant

The TX and RX range is 2402MHz-2480MHz.

SUMMARY:

- All tests according to the regulations cited on page 8 were

■ - Performed

□ - **Not** Performed

- The Equipment Under Test

■ - **Fulfills** the general approval requirements.

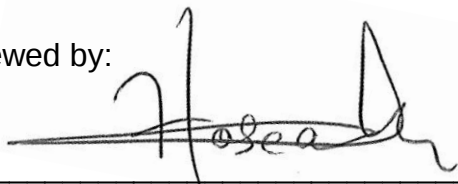
□ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 28, 2018

Testing Start Date: November 30, 2018

Testing End Date: December 30, 2018

Reviewed by:



Hosea CHAN
EMC Project Engineer

Prepared by:



Eric LI
EMC Senior Project Engineer

7 Emission Test Results

7.1 Spurious Radiated Emission

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode
 (Low channel is the worst case)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 9kHz to 1GHz

Test Result

☒ Passed☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
39.107222	18.83	40.00	-21.17	Peak	H	-26.3
49.992778	16.88	40.00	-23.12	Peak	H	-24.9
870.235556	25.03	46.00	-20.97	Peak	H	-15.8
38.298889	16.87	40.00	-23.13	Peak	V	-26.5
48.430000	17.41	40.00	-22.59	Peak	V	-25.0
880.258889	25.06	46.00	-20.94	Peak	V	-15.6

Remark:

- As the measured peak value not exceeded the Quasi-peak limit, Quasi-peak value no need to be measured.

Spurious Radiated Emission

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
2338.125000	38.75	54.00	-15.25	Peak	H	-5.9
2465.750000	43.76	54.00	-10.24	Peak	H	-4.8
5034.843750	37.97	54.00	-16.03	Peak	H	4.7
7601.250000	42.51	54.00	-11.49	Peak	H	9.9
12563.437500	44.85	54.00	-9.15	Peak	H	14.5
2337.812500	34.47	54.00	-19.53	Peak	V	-5.9
2465.812500	34.72	54.00	-19.28	Peak	V	-4.8
7543.125000	42.06	54.00	-11.94	Peak	V	9.9
9392.343750	41.78	54.00	-12.22	Peak	V	9.7
11903.906250	44.00	54.00	-10.00	Peak	V	11.9

Remark:

1.As the measured peak value not exceeded the average limit, average value no need to be measured.

Spurious Radiated Emission

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
2376.000000	41.05	54.00	-12.95	Peak	H	-5.8
2504.062500	43.07	54.00	-10.93	Peak	H	-4.5
7571.718750	42.59	54.00	-11.41	Peak	H	10.1
9405.000000	41.62	54.00	-12.38	Peak	H	9.7
12429.843750	44.86	54.00	-9.14	Peak	H	14.3
2376.125000	32.55	54.00	-21.45	Peak	V	-5.8
2504.062500	36.94	54.00	-17.06	Peak	V	-4.5
7529.531250	41.97	54.00	-12.03	Peak	V	9.7
9338.906250	41.73	54.00	-12.27	Peak	V	9.8
10639.218750	43.01	54.00	-10.99	Peak	V	10.3

Remark:

1.As the measured peak value not exceeded the average limit, average value no need to be measured.

Spurious Radiated Emission

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
2416.312500	40.85	54.00	-13.15	Peak	H	-5.4
2544.125000	40.23	54.00	-13.77	Peak	H	-4.3
4959.375000	38.94	54.00	-15.06	Peak	H	4.3
7530.000000	42.34	54.00	-11.66	Peak	H	9.7
10615.312500	41.48	54.00	-12.52	Peak	H	10.3
2198.312500	34.34	54.00	-19.66	Peak	V	-7.2
7645.781250	43.25	54.00	-10.75	Peak	V	9.5
9479.531250	41.91	54.00	-12.09	Peak	V	9.8
11904.375000	43.63	54.00	-10.37	Peak	V	11.9

Remark:

1.As the measured peak value not exceeded the average limit, average value no need to be measured.

Spurious Radiated Emission

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402 and 2480)
 Test Specification: FCC15.247
 Comment: 3V DC, Radiated Bandedge

Test Result	
☒	Passed
☐	Not Passed

Channel	Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK /AV	Ant. Polarity H/V	Corr. (dB)
2402	2400.00	41.37	74.00	-32.63	Peak	H	-5.5
2402	2400.00	32.37	54.00	-21.63	Average	H	-5.5
2402	2400.00	43.54	74.00	-30.46	Peak	V	-5.5
2402	2400.00	36.38	54.00	-17.62	Average	V	-5.5
2480	2483.50	45.17	74.00	-28.83	Peak	H	-4.8
2480	2483.50	35.89	54.00	-18.11	Average	H	-4.8
2480	2483.50	47.37	74.00	-26.63	Peak	V	-4.8
2480	2483.50	35.38	54.00	-18.62	Average	V	-4.8

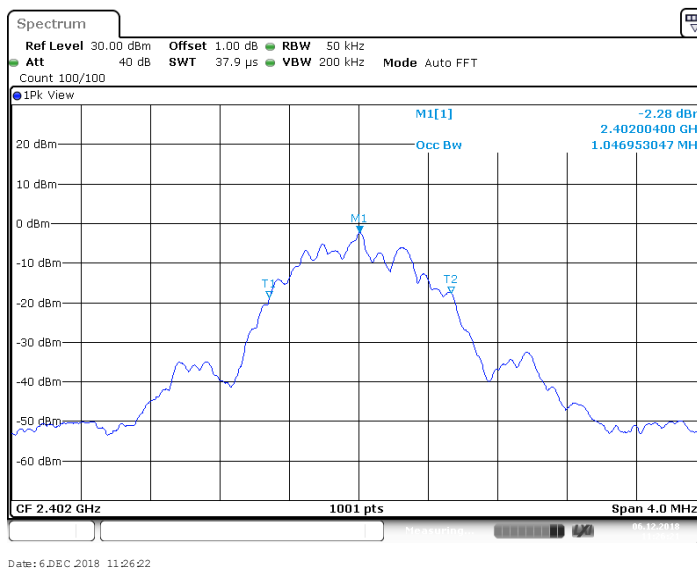
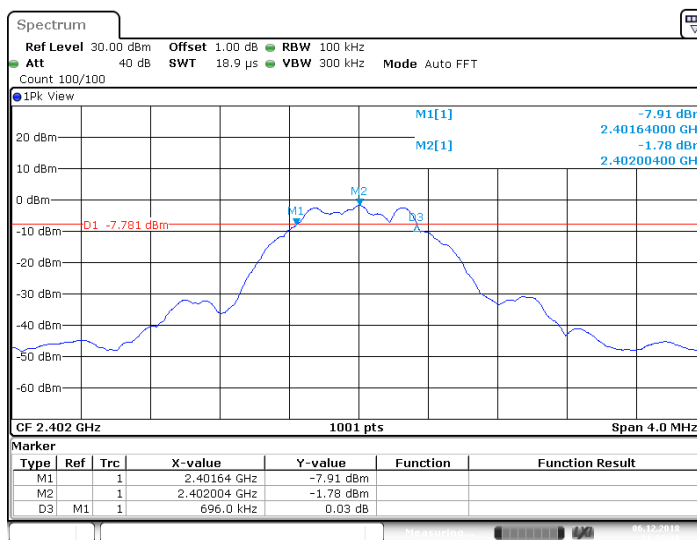
7.2 Conducted Emission at AC Power line

Conducted Emission testing is not applicable for this device as it is a battery operating device.

7.3 6dB & 99% Bandwidth

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Bandwidth	Measured Value	Limit
6dB bandwidth	0.696 MHz	> 0.5MHz
99% OCB	1.047 MHz	NA

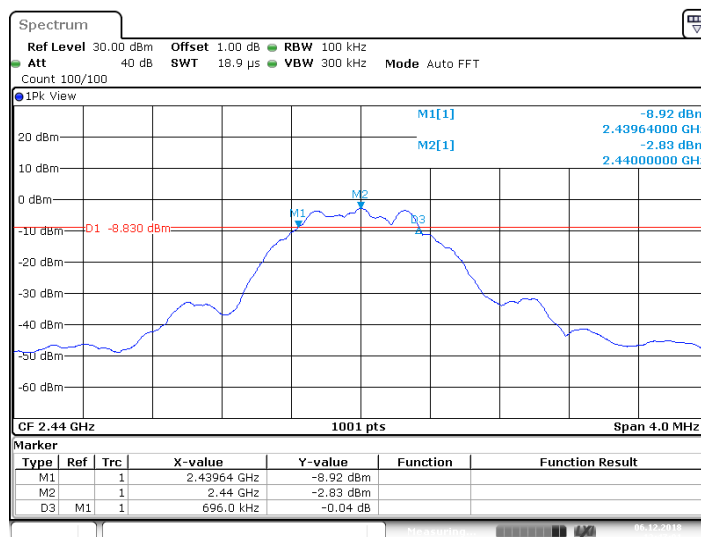
6dB & 99% Bandwidth

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



Date: 6 DEC 2018 12:47:01



Date: 6 DEC 2018 12:47:13

Bandwidth	Measured Value	Limit
6dB bandwidth	0.696 MHz	> 0.5 MHz
99% OCB	1.051 MHz	NA

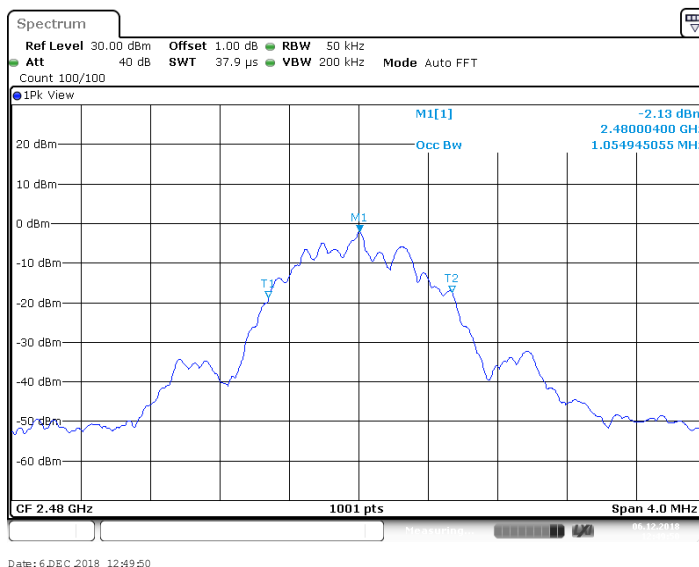
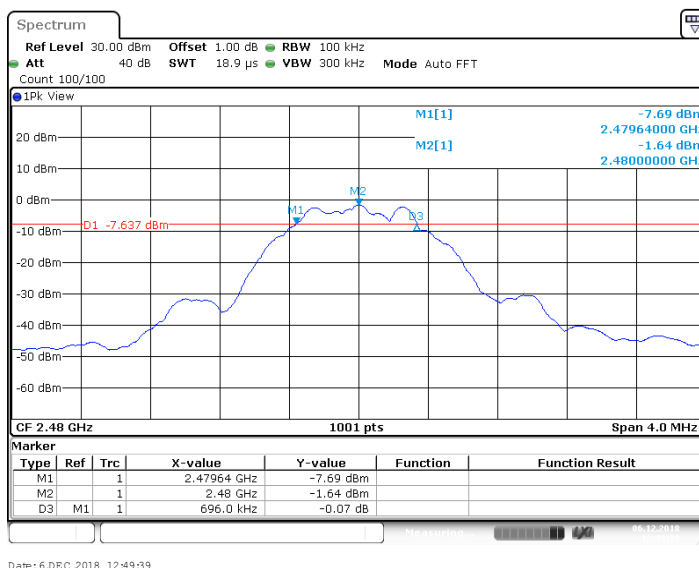
6dB & 99% Bandwidth

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed

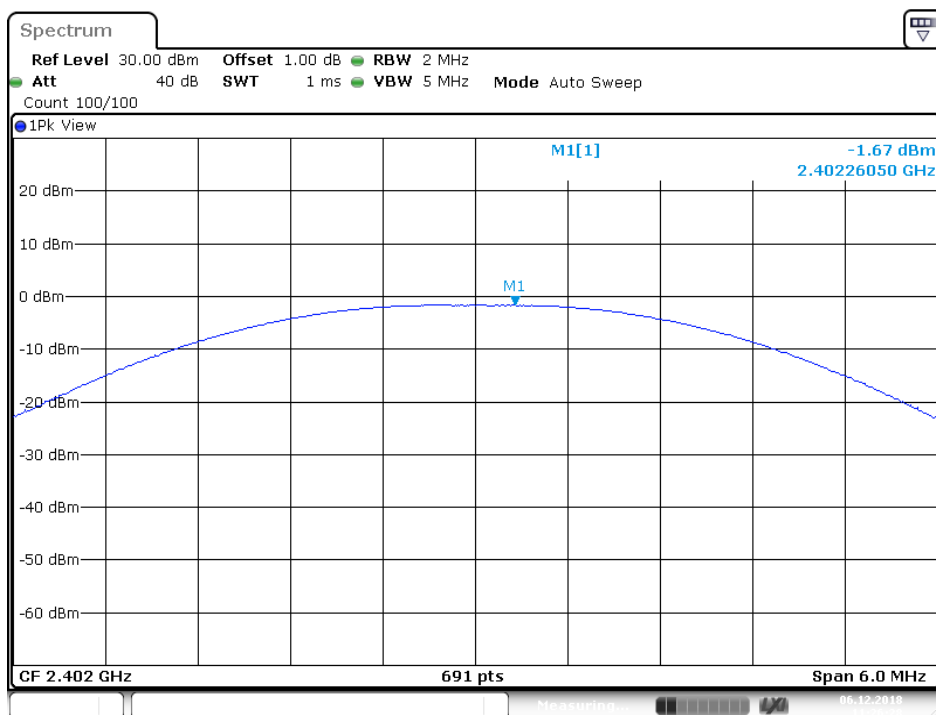


Bandwidth	Measured Value	Limit
6dB bandwidth	0.696 MHz	> 0.5 MHz
99% OCB	1.055 MHz	NA

7.4 Peak Output Power

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(b)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

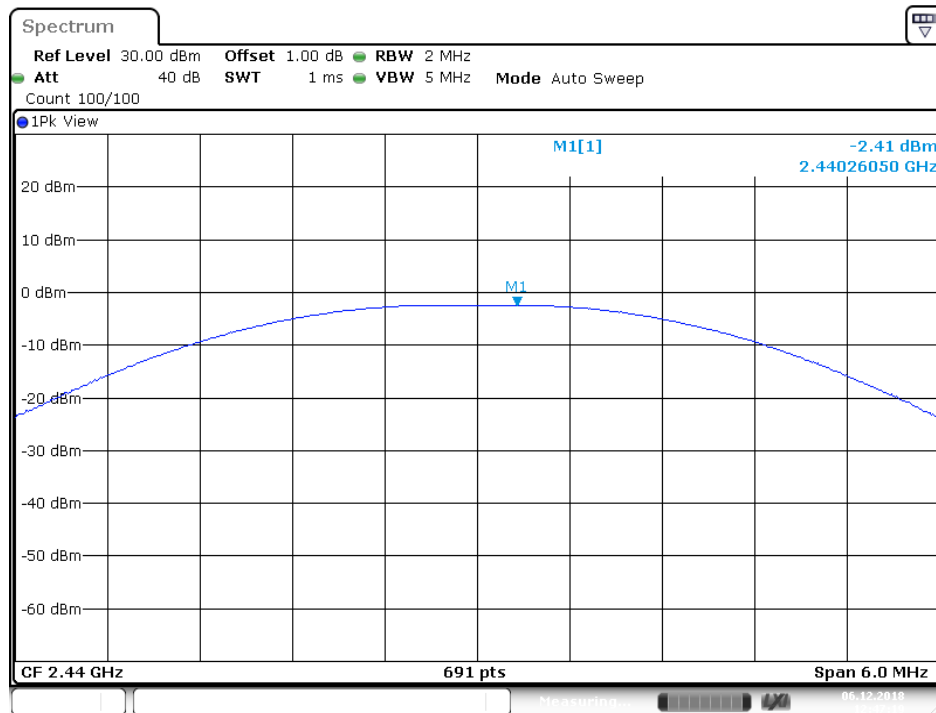
Date: 6 DEC 2018 11:26:29

Conducted Output Power	Limit
-1.67 dBm	< 30dBm

Peak Output Power

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(b)
Comment: 3V DC

Test Result
☒ Passed
☐ Not Passed



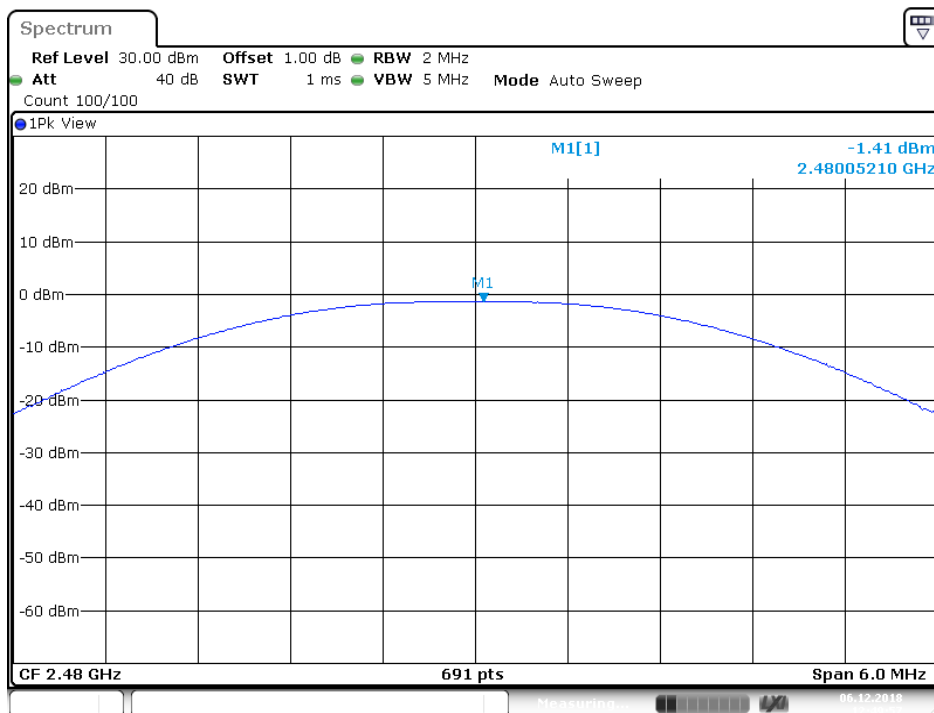
Date: 6.DEC.2018 12:47:20

Conducted Output Power	Limit
-2.41 dBm	< 30dBm

Peak Output Power

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(b)
Comment: 3V DC

Test Result
☒ Passed
☐ Not Passed



Date: 6.DEC.2018 12:49:57

Conducted Output Power	Limit
-1.41 dBm	< 30dBm

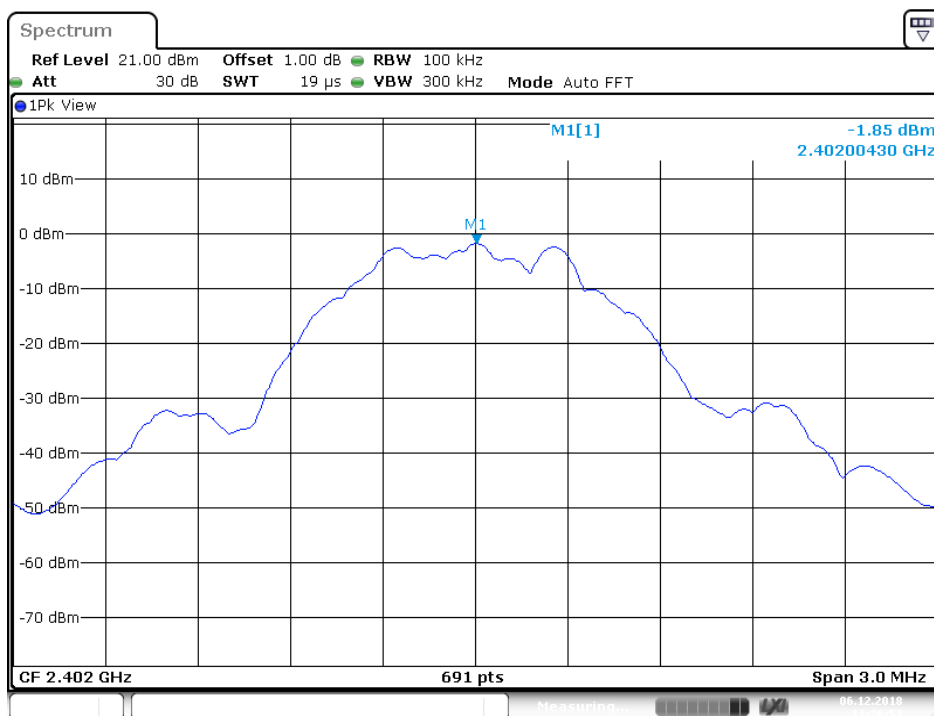
7.5 Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Channel	FreqRange	RefLevel	Result	Limit	Verdict
2402	Reference	-1.85	-1.85	---	PASS
2402	30~1000	-1.85	-68.92	-21.85	PASS
2402	1000~26500	-1.85	-53.19	-21.85	PASS

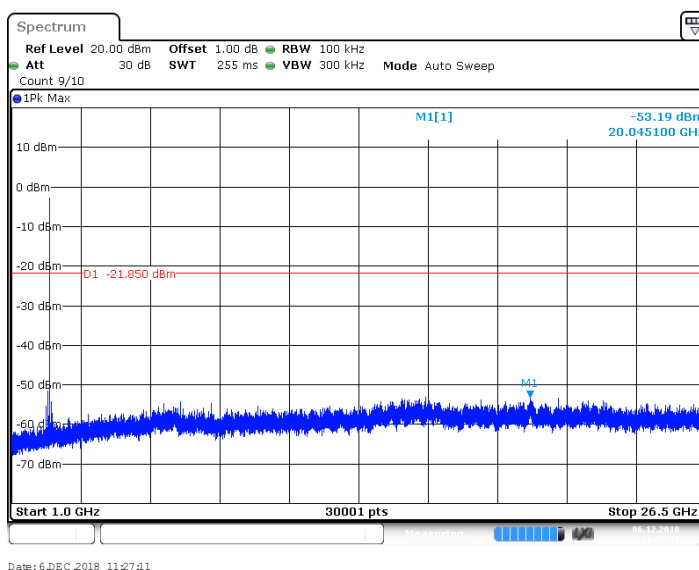
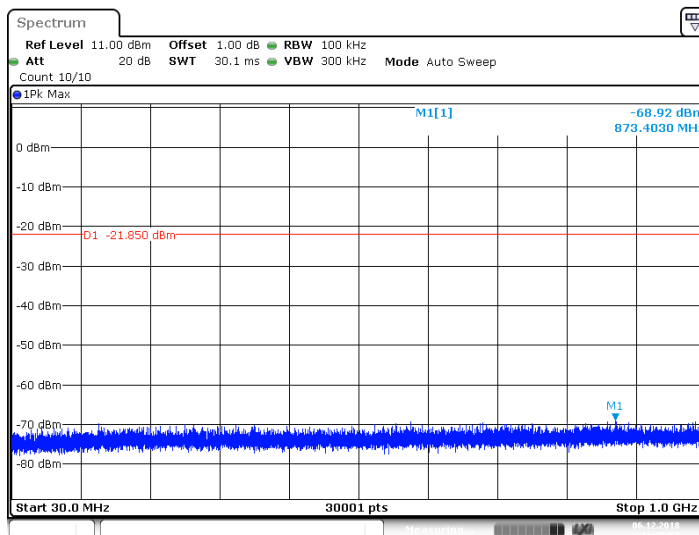


Date: 6.DEC.2018 11:26:51

Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

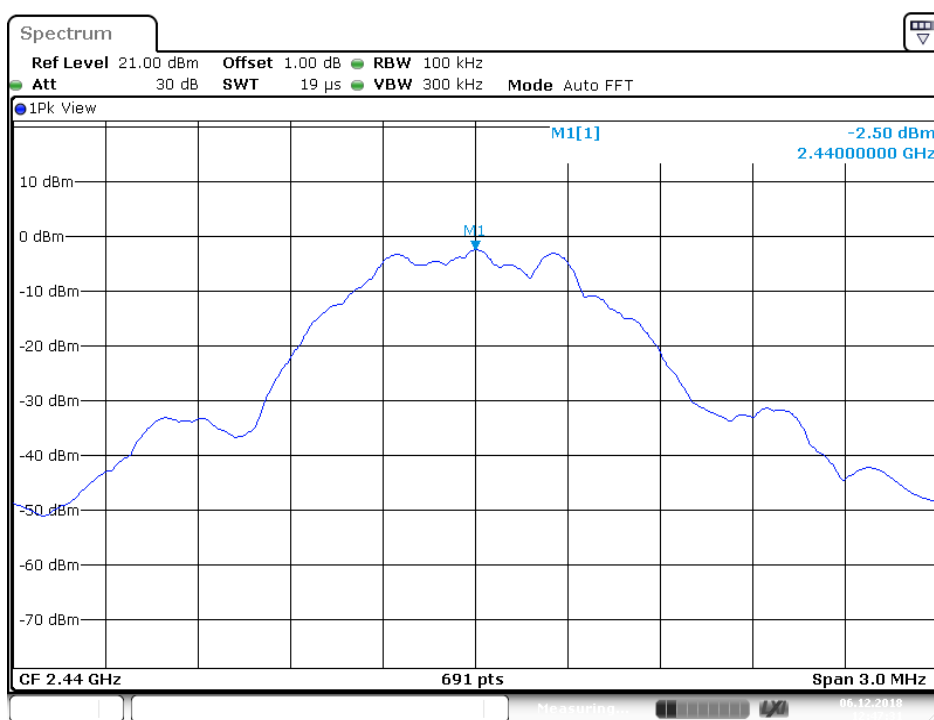
Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

Channel	FreqRange	RefLevel	Result	Limit	Verdict
2440	Reference	-2.50	-2.50	---	PASS
2440	30~1000	-2.50	-69.28	-22.5	PASS
2440	1000~26500	-2.50	-52.98	-22.5	PASS

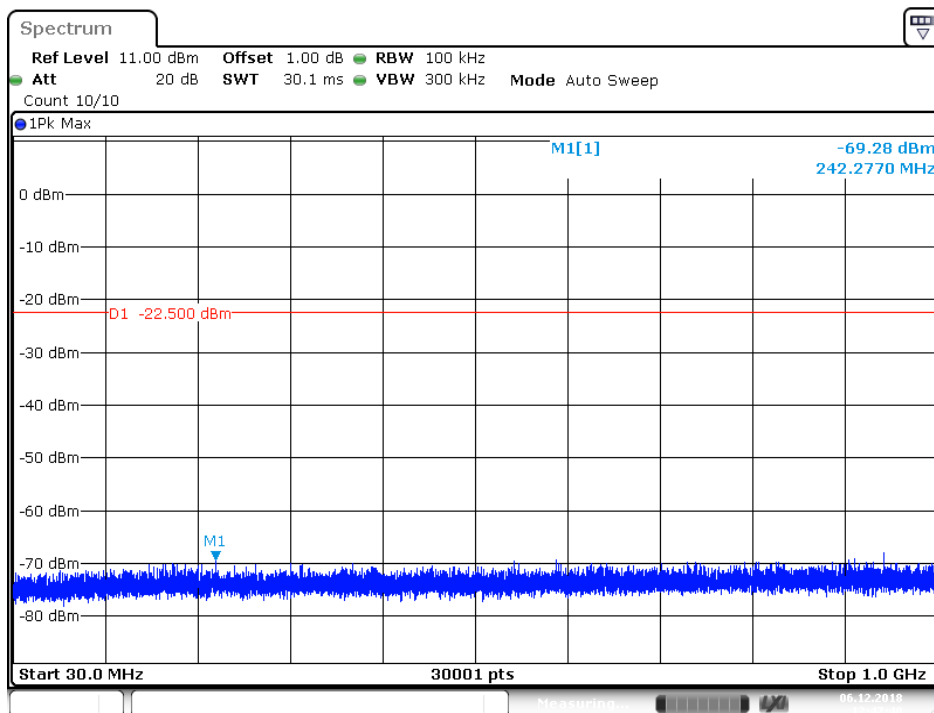


Date: 6 DEC 2018 12:47:32

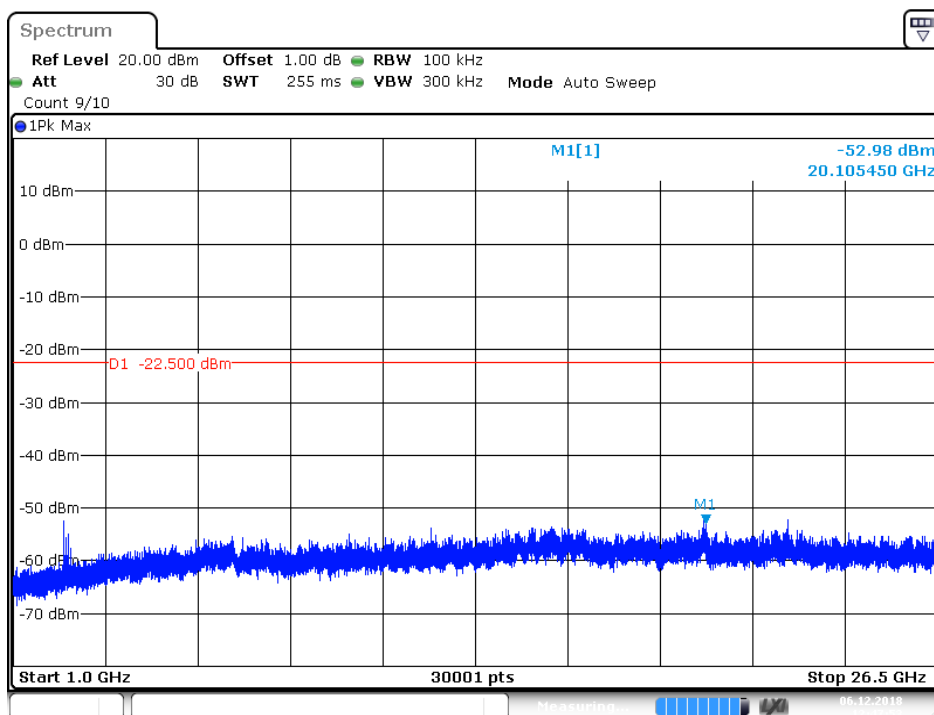
Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Date: 6.DEC.2018 12:47:41



Date: 6.DEC.2018 12:47:52

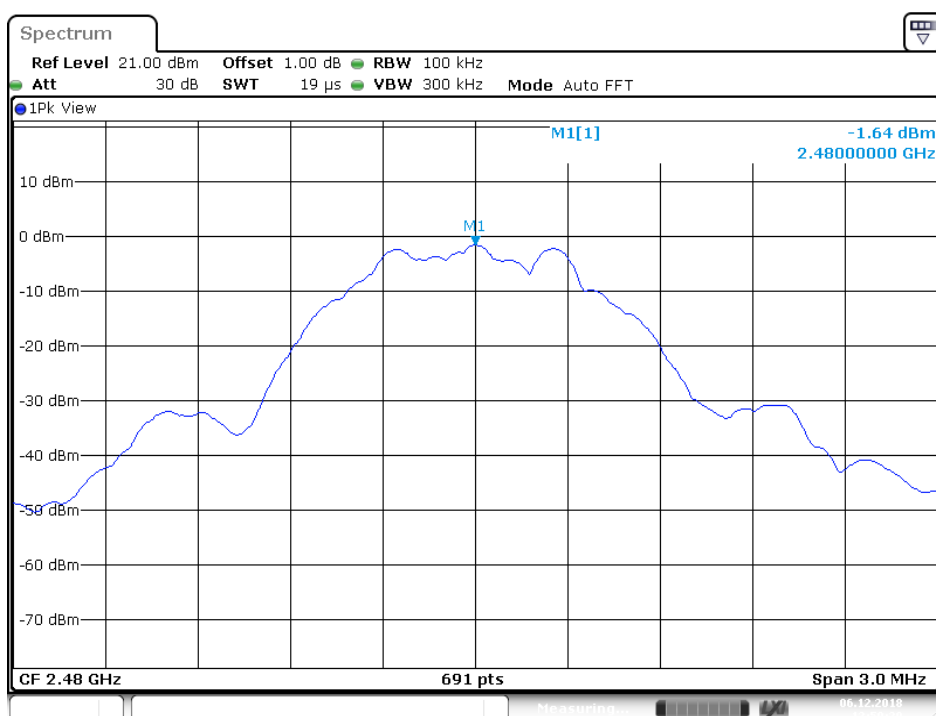
Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

Channel	FreqRange	RefLevel	Result	Limit	Verdict
2480	Reference	-1.64	-1.64	---	PASS
2480	30~1000	-1.64	-69.36	-21.64	PASS
2480	1000~26500	-1.64	-53.19	-21.64	PASS

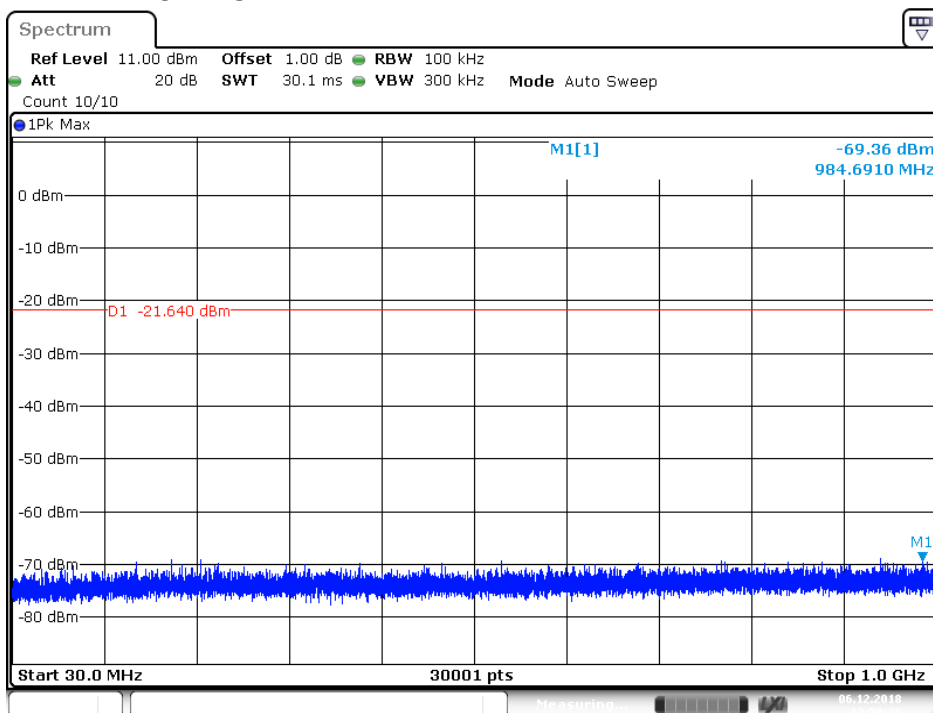


Date: 6 DEC 2018 12:50:19

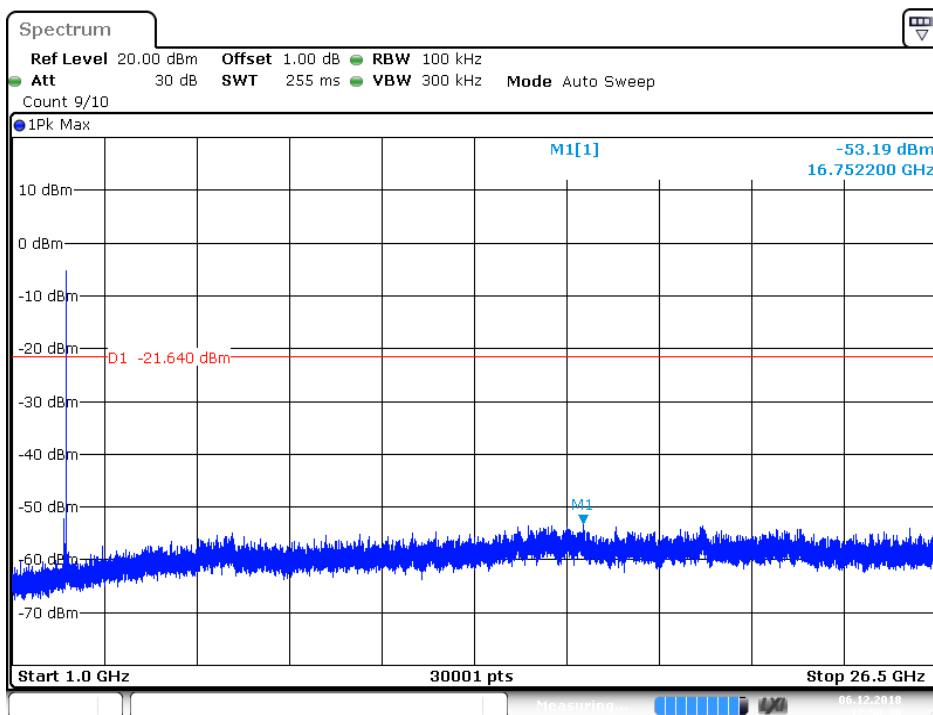
Spurious Emissions at Antenna Terminals

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Date: 6.DEC.2018 12:50:28



Date: 6.DEC.2018 12:50:40

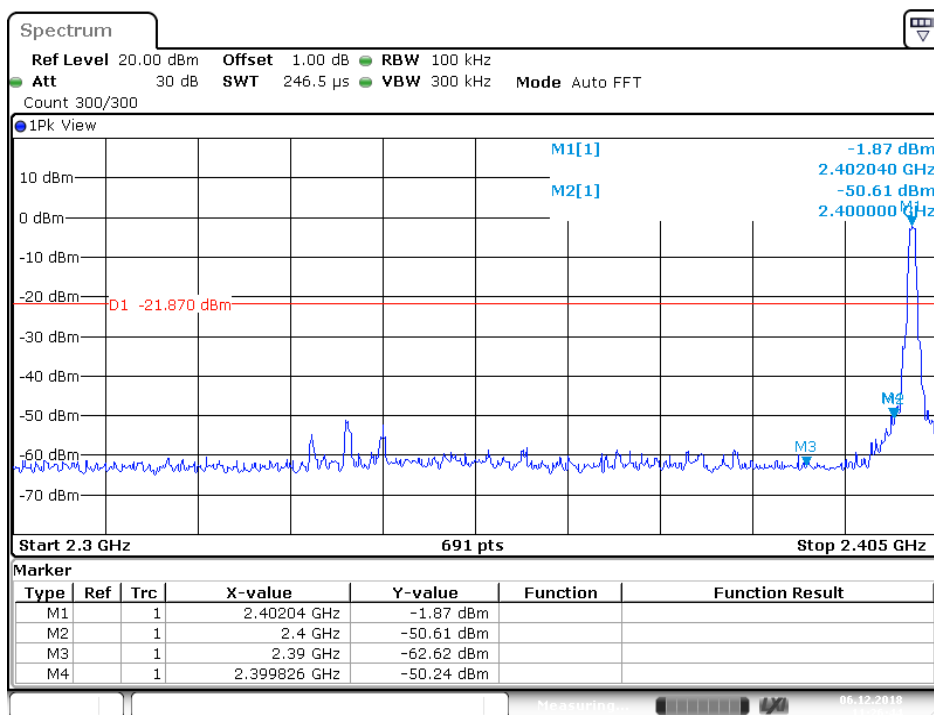
7.6 100kHz Bandwidth of band edges

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



Date: 6 DEC 2018 11:26:45

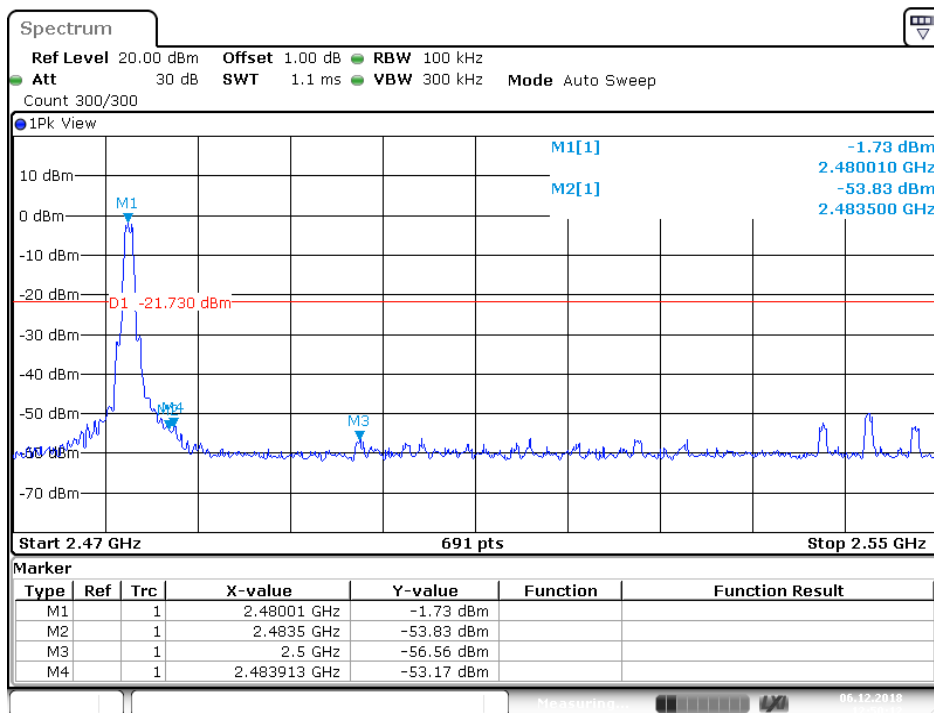
Band edges	Limit
48.74 dB	> 20dB

100kHz Bandwidth of band edges

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed



Date: 6 DEC 2018 12:50:13

Band edges	Limit
52.10 dB	> 20dB

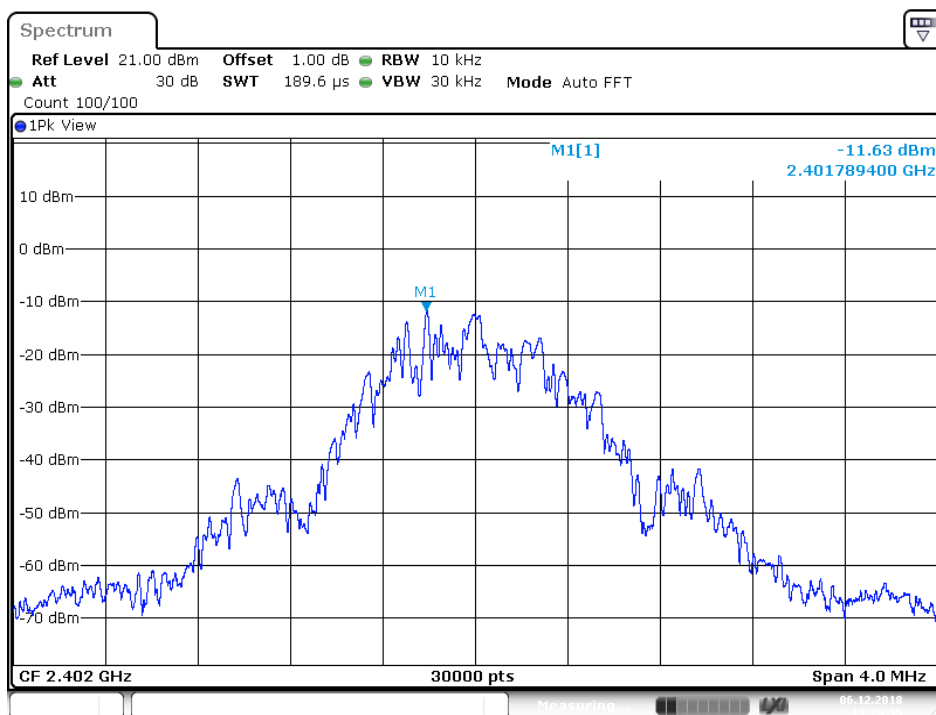
7.7 Power Spectral Density

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(e)
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



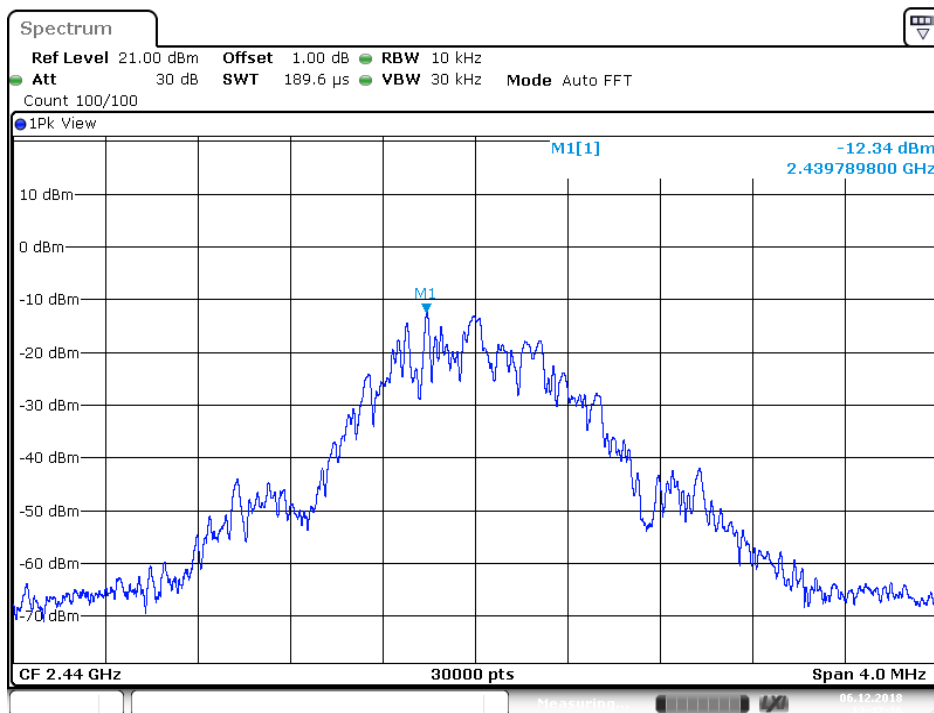
Date: 6 DEC 2018 11:26:35

PSD	Limit
-11.63 dBm	< 8 dBm

Power Spectral Density

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(e)
Comment: 3V DC

Test Result
☒ Passed
☐ Not Passed



Date: 6 DEC 2018 12:47:26

PSD	Limit
-12.34 dBm	< 8 dBm

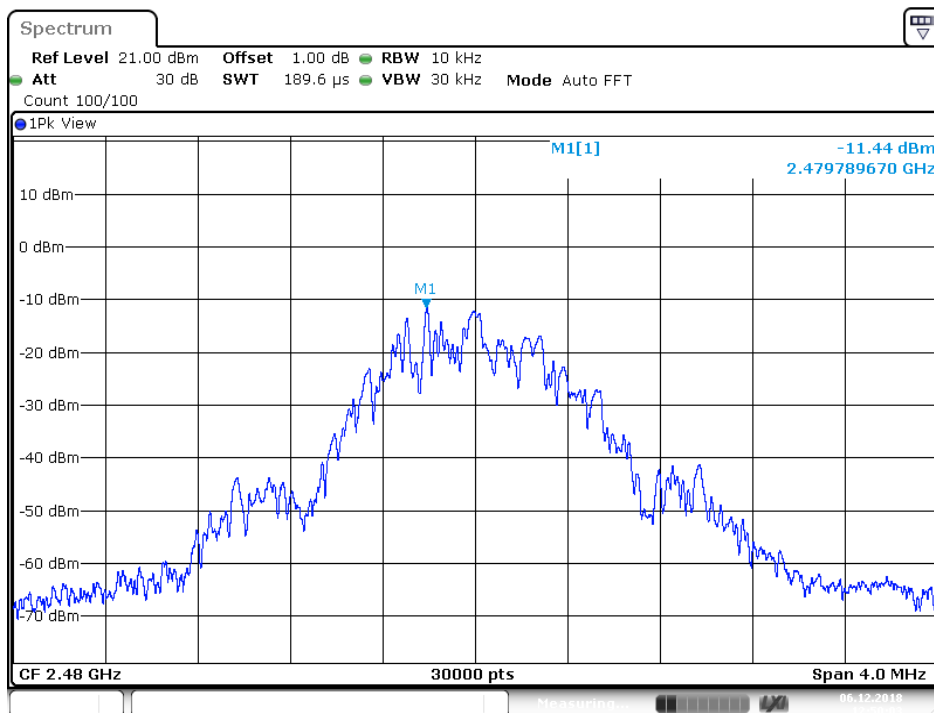
Power Spectral Density

EUT: RIDetime ELITE
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(e)
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



Date: 6.DEC.2018 12:50:03

PSD	Limit
-11.44 dBm	< 8 dBm

7.8 Antenna Requirement

EUT: RIDetime ELITE
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3V DC

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 integrated antenna on PCB, and the maximum gain of this antenna is 0.0 dBi.

8 Appendix A - 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: $-1.67\text{dBm} = 0.681\text{mW}$
The power of EUT measured (2440MHz) is: $-2.41\text{dBm} = 0.574\text{mW}$
The power of EUT measured (2480MHz) is: $-1.41\text{dBm} = 0.723\text{mW}$

Which is smaller than the Numeric threshold.

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