FCC Part 15C Measurement and Test Report

For

Penclic AB

Vendev. 90, 7tr 182 32 Danderyd, Sweden

FCC ID: ZRQ-R4

FCC Rule(s): FCC Part 15.249

Product Description: Penclic mouse

Tested Model: R3

Report No.: <u>STR140185731</u>

Tested Date: <u>2014-01-20 to 2014-02-12</u>

Issued Date: 2014-02-12

Tested By: <u>Lebron Wang / Engineer</u>

Reviewed By: <u>Lahm Peng / EMC Manager</u>

Approved & Authorized By: <u>Jandy so / PSQ Manager</u>

Prepared By:

Shenzhen SEM.Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,

Lebron Wang Lahm peny Jumbyso

Bao'an District, Shenzhen, P.R.C. (518101)

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Penclic AB

Address of applicant: Vendev. 90, 7tr 182 32 Danderyd, Sweden

Manufacturer: SUNSONNY INTERNATIONAL GROUP LIMITED

Address of manufacturer: NO.68, Meihua Road, Eastern Area, Baishixia industrial

Park, Fuyong Town, Bao'an District, Shenzhen, China

General Description of EUT	
Product Name:	Penclic mouse
Trade Name:	Penclic
Model No.:	R3
Adding Model(s):	/
Rated Voltage:	TX: USB 5V charging, Battery: DC 1.5V
Power Adapter Model:	/
	·
Note: The test data is gathered fro	m a production sample, provided by the manufacturer.

Technical Characteristics of EUT				
Frequency Range:	2407-2477MHz			
Max. Field Strength:	80.53 dBuV/m (at 3m distance)			
Data Rate:	GFSK			
Modulation:	1Mbps			
Quantity of Channels:	71			
Channel Separation:	1MHz			
Antenna Type:	PCB Antenna			
Antenna Gain:	-1.2dBi			
Lowest Internal Frequency of EUT:	16MHz			

1.2 Test Standards

The following report is prepared on behalf of the Penclic AB in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List					
Test Mode	Description	Remark			
TM1	Low Channel	2407MHz			
TM2	Middle Channel	2442MHz			
TM3	High Channel	2477MHz			
TM4	Charging	/			

Special Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
USB Cable	0.8	Unshielded	Without Ferrite			

Auxiliary Equipment List and Details						
Description Manufacturer Model Serial Number						
Notebook Computer	20007	EB12648265				

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

3. Antenna Requirements

3.1 Standard Applicable

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

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4. Radiated Emissions

4.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

4.2 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental	Field strength of Harmonics
	(milli-volts/meter)	(micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2013-04-20	2014-04-19

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4.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency: Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

4.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss - Ampl. Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

4.6 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

4.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

-3.23 dB at 4954MHz in the Horizontal polarization, Average detector, High Channel, 9 kHz to 25 GHz, 3Meters

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

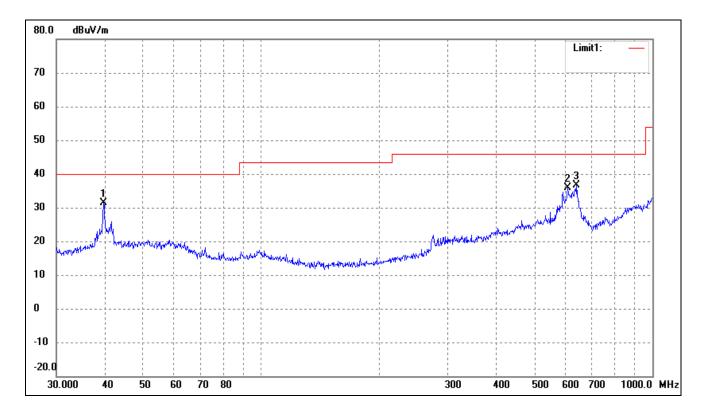
Plot of Radiated Emissions Test Data

EUT: Penclic mouse

Tested Model: R3

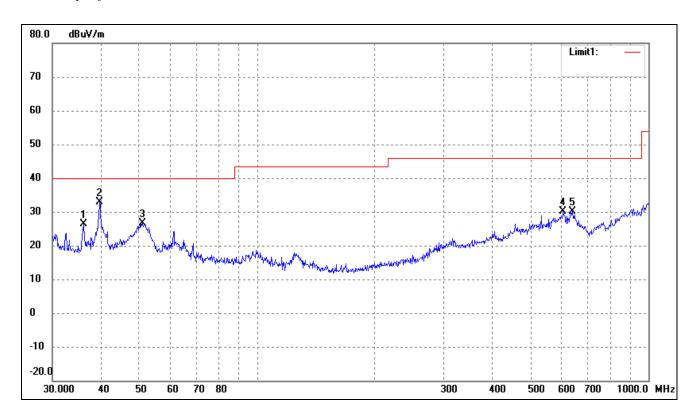
Operating Condition: Charging
Comment: USB DC 5V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.5757	26.35	4.95	31.30	40.00	-8.70	125	100	peak
2	607.7867	24.73	11.23	35.96	46.00	-10.04	145	100	peak
3	640.6110	25.57	11.09	36.66	46.00	-9.34	178	100	peak

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(0)	(cm)	
1	36.0007	19.92	6.52	26.44	40.00	-13.56	125	100	peak
2	39.5757	25.97	7.00	32.97	40.00	-7.03	145	100	peak
3	50.9420	22.50	4.25	26.75	40.00	-13.25	178	100	peak
4	605.6592	18.83	11.37	30.20	46.00	-15.80	196	100	peak
5	638.3686	19.17	11.05	30.22	46.00	-15.78	205	100	peak

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

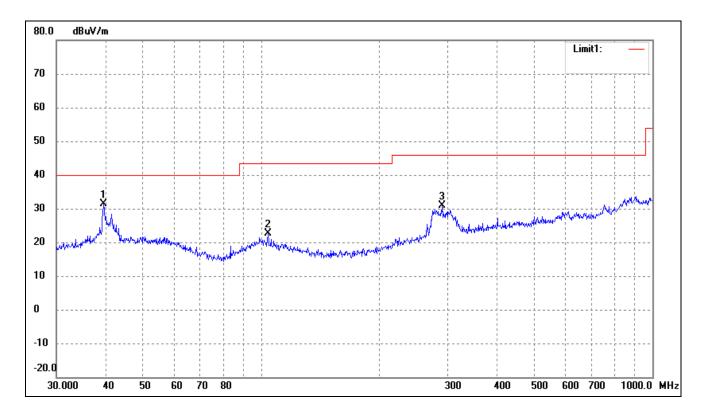
EUT: Penclic mouse

Tested Model: R3

Operating Condition: Transmitting Low Channel (2407MHz)

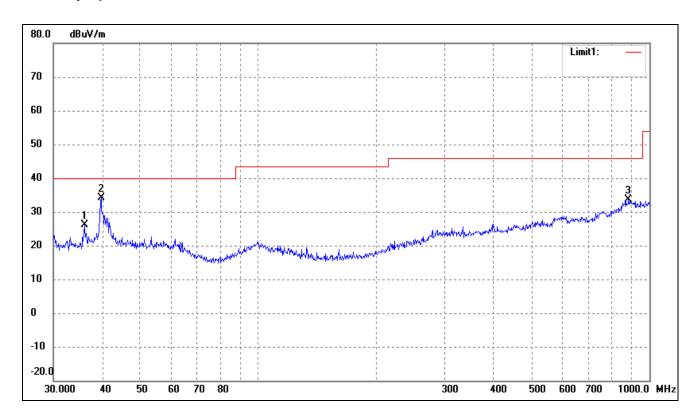
Comment: Battery DC 1.5V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.5757	24.27	7.13	31.40	40.00	-8.60	145	100	peak
2	104.1701	17.01	5.69	22.70	43.50	-20.80	125	100	peak
3	290.0172	22.19	8.79	30.98	46.00	-15.02	178	100	peak

Test Specification: Vertical

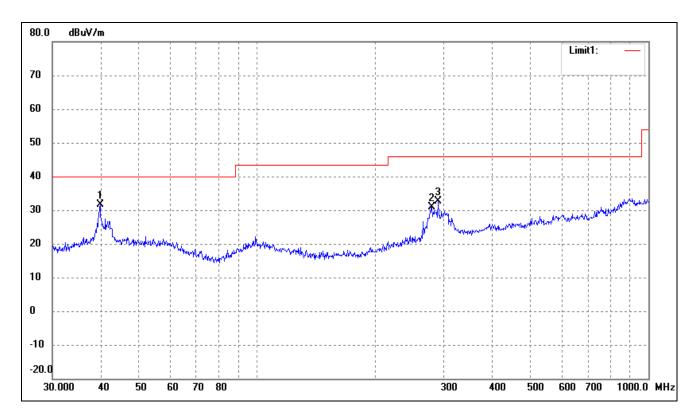


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.0007	17.45	8.56	26.01	40.00	-13.99	115	100	peak
2	39.7147	24.93	9.20	34.13	40.00	-5.87	145	100	peak
3	884.5029	16.79	16.83	33.62	46.00	-12.38	178	100	peak

Operating Condition: Transmitting Middle Channel (2442MHz)

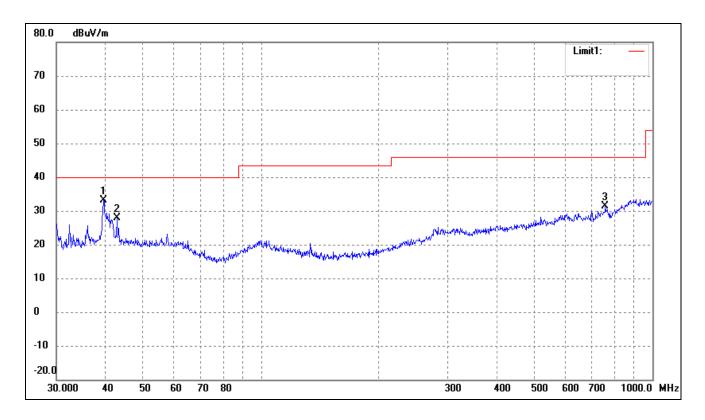
Comment: Battery DC 1.5V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.7147	24.52	7.17	31.69	40.00	-8.31	142	100	peak
2	279.0436	22.58	8.34	30.92	46.00	-15.08	135	100	peak
3	290.0172	23.79	8.79	32.58	46.00	-13.42	168	100	peak

Test Specification: Vertical

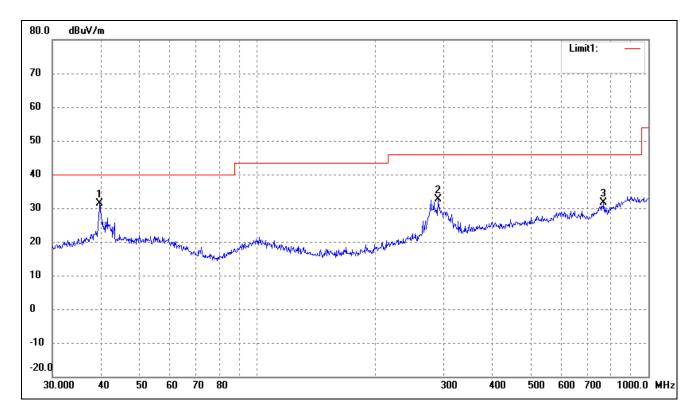


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.5757	23.96	9.18	33.14	40.00	-6.86	168	100	peak
2	42.8998	19.45	8.38	27.83	40.00	-12.17	152	100	peak
3	758.0408	16.76	14.74	31.50	46.00	-14.50	175	100	peak

Operating Condition: Transmitting High Channel (2477MHz)

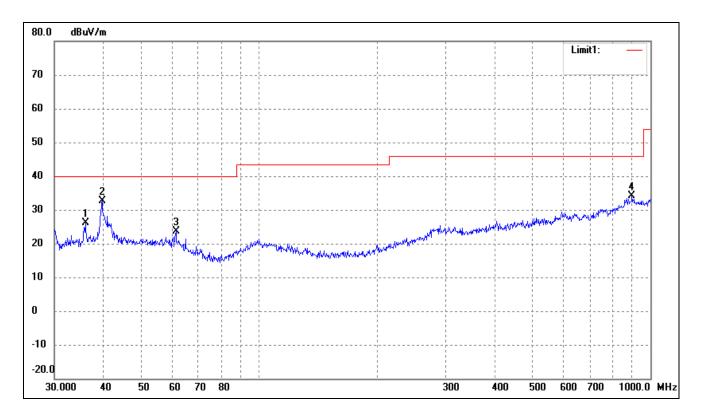
Comment: Battery DC 1.5V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.5757	24.14	7.13	31.27	40.00	-8.73	135	100	peak
2	290.0172	23.88	8.79	32.67	46.00	-13.33	185	100	peak
3	768.7482	17.45	14.15	31.60	46.00	-14.40	250	100	peak

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.0007	17.62	8.56	26.18	40.00	-13.82	102	100	peak
2	39.7147	23.48	9.20	32.68	40.00	-7.32	152	100	peak
3	61.3463	18.80	4.95	23.75	40.00	-16.25	148	100	peak
4	896.9965	17.28	16.85	34.13	46.00	-11.87	195	100	peak

Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
	Low Channel-2407MHz									
2407	81.76	-3.49	78.27	114.00	-35.73	Н	PK			
2407	71.00	-3.49	67.51	94.00	-26.49	Н	AV			
4814	62.46	0.57	63.03	74.00	-10.97	Н	PK			
4814	43.65	0.57	44.22	54.00	-9.78	Н	AV			
7221	41.34	3.67	45.01	74.00	-28.99	Н	PK			
7221	30.60	3.67	34.34	54.00	-19.73	Н	AV			
2407	84.02	-3.49	80.53	114.00	-33.47	V	PK			
2407	74.85	-3.49	71.36	94.00	-22.64	V	AV			
4814	52.25	0.57	52.82	74.00	-21.18	V	PK			
4814	36.95	0.57	37.52	54.00	-16.48	V	AV			
7221	41.52	3.67	45.19	74.00	-28.81	V	PK			
7221	31.18	3.67	34.93	54.00	-19.15	V	AV			
			Middle Chan	nel-2442MHz						
2442	79.89	-3.41	76.48	114.00	-37.52	Н	PK			
2442	67.61	-3.41	64.20	94.00	-29.80	Н	AV			
4884	61.88	0.66	62.54	74.00	-11.46	Н	PK			
4884	45.70	0.66	46.36	54.00	-7.64	Н	AV			
7326	43.62	3.76	47.38	74.00	-26.62	Н	PK			
7326	32.04	3.76	35.80	54.00	-18.20	Н	AV			
2442	83.80	-3.41	80.39	114.00	-33.61	V	PK			
2442	71.32	-3.41	67.91	94.00	-26.09	V	AV			
4884	57.60	0.66	58.26	74.00	-15.74	V	PK			
4884	42.48	0.66	43.14	54.00	-10.86	V	AV			
7326	42.64	3.76	46.40	74.00	-27.60	V	PK			
7326	31.96	3.76	35.72	54.00	-18.28	V	AV			

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			High Chann	el-2477MHz			
2477	73.32	-3.33	69.99	114.00	-44.01	Н	PK
2477	62.16	-3.33	58.83	74.00	-15.17	Н	AV
4954	66.97	0.77	67.74	74.00	-6.26	Н	PK
4954	50.00	0.77	50.77	54.00	-3.23	Н	AV
7431	43.38	3.76	47.14	74.00	-26.86	Н	PK
7431	31.04	3.76	34.80	54.00	-19.20	Н	AV
2477	80.77	-3.33	77.44	114.00	-36.56	V	PK
2477	69.64	-3.33	66.31	94.00	-27.69	V	AV
4954	59.24	0.77	60.01	74.00	-13.99	V	PK
4954	43.86	0.77	44.63	54.00	-9.37	V	AV
7431	44.99	3.84	48.83	74.00	-25.17	V	PK
7431	32.56	3.84	36.40	54.00	-17.60	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19

5.3 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

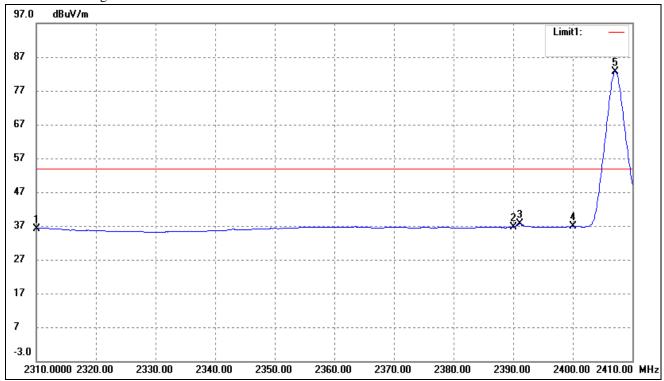
5.5 Summary of Test Results/Plots

To at one oll a	Frequency	Limit	D14
Test mode	MHz	dBuV / dBc	Result
	2310.00	<54 dBuV	Pass
Lowest	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
III day	2483.50	<54 dBuV	Pass
Highest	2500.00	<54 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

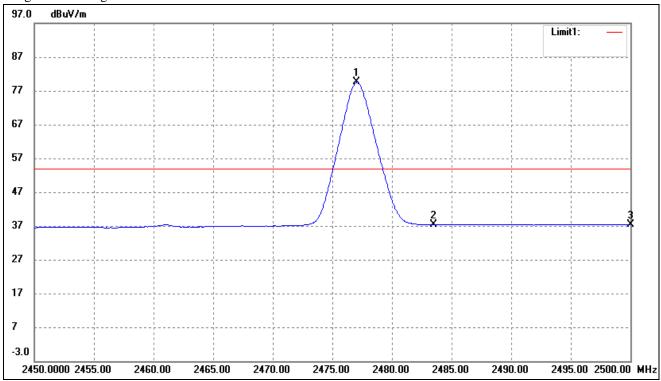
Please refer to the test plots as below.

Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	19.88	16.34	36.22	54.00	-17.78	Average Detector
	2310.000	32.67	16.34	49.01	74.00	-24.99	Peak Detector
2	2390.000	19.62	17.03	36.65	54.00	-17.35	Average Detector
	2390.000	32.91	17.03	49.94	74.00	-24.06	Peak Detector
3	2391.100	20.60	17.03	37.63	54.00	-16.37	Average Detector
4	2400.000	32.33	17.11	47.04	54.00	-16.96	Average Detector
5	2407.040	67.15	17.16	84.31	/	/	Average Detector

Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2477.050	61.84	17.69	79.53	/	/	Average Detector
	2477.000	62.40	17.69	80.09	/	/	Peak Detector
2	2483.500	Delta=44.96	EdD o	34.57	54.00	-19.43	Average Detector
	2483.500	Della=44.90	оивс	35.13	74.00	-38.87	Peak Detector
3	2500.000	19.55	17.86	37.41	54.00	-16.59	Average Detector
	2500.000	32.16	17.86	50.02	74.00	-23.98	Peak Detector

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

6.3 Test Procedure

According to the ANSI 63.4-2003, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW ≥1% 20dB Bandwidth, VBW ≥RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.4 Environmental Conditions

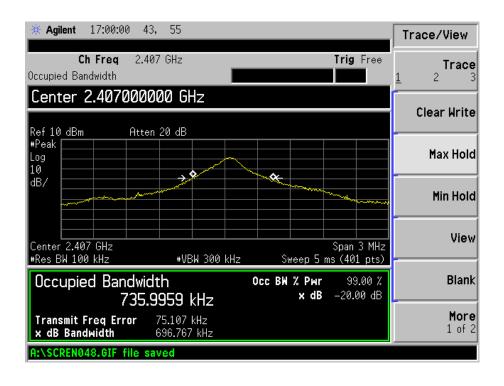
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.5 Summary of Test Results/Plots

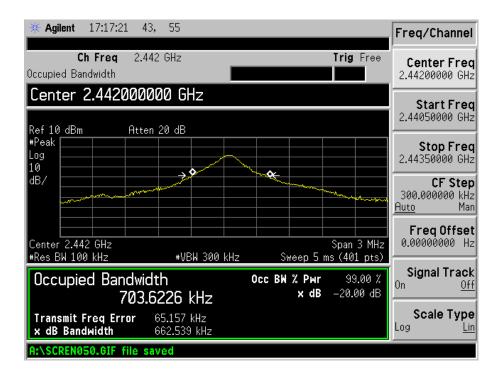
Channel	Frequency	20dB Bandwidth	99% Bandwidth
Chamiei	MHz	kHz	kHz
Low Channel	2407	696.767	735.9959
Middle Channel	2442	662.539	703.6226
High Channel	2477	646.757	710.1572

Please refer to the following test plots

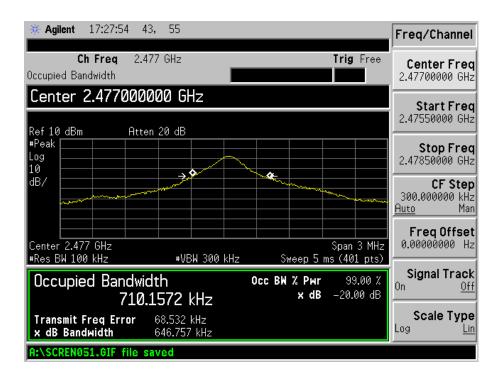
Low Channel:



Middle Channel:



High Channel:



7. Conducted Emissions

7.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

7.2 Test Equipment List and Details

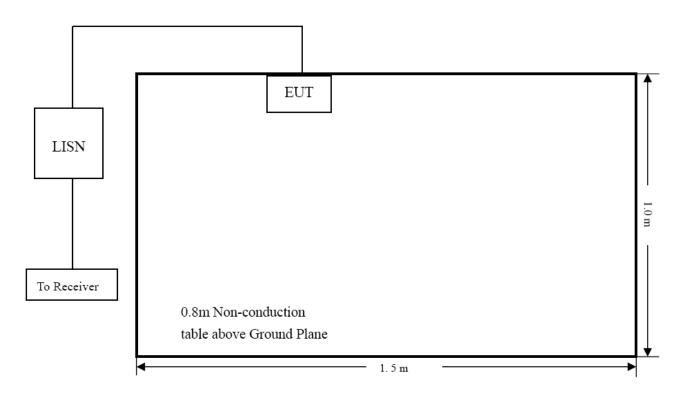
Description	Description Manufacturer		Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2013-05-07	2014-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2013-05-07	2014-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2013-05-07	2014-05-06

7.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

7.4 Basic Test Setup Block Diagram



7.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.6 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	$150\;\mathrm{kHz}$
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

7.7 Summary of Test Results/Plots

According to the data in section 12.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-12.19 dB at 26.6620 MHz in the Line mode, average detector, 0.15-30MHz

7.8 Conducted Emissions Test Data

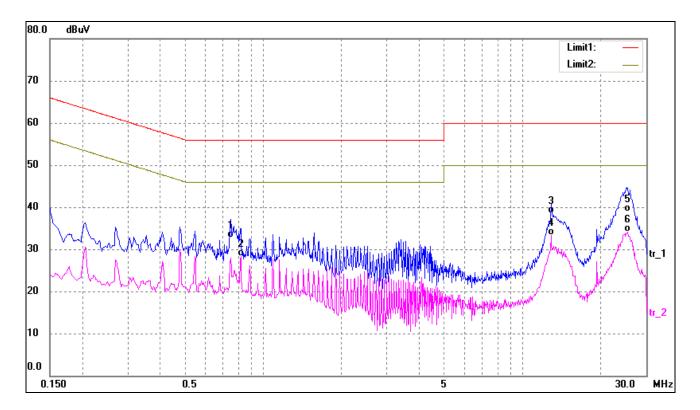
Plot of Conducted Emissions Test Data

EUT: Penclic mouse

Tested Model: R3

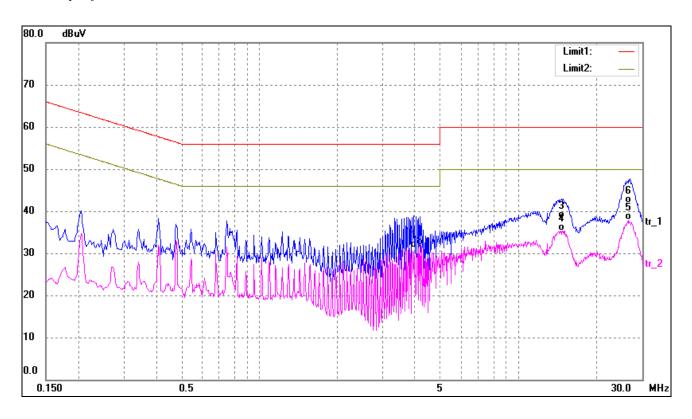
Operating Condition: Charging
Comment: USB DC 5V

Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.7500	23.03	9.75	32.78	56.00	-23.22	QP
2	0.8180	18.43	9.82	28.25	46.00	-17.75	AVG
3	12.8940	27.89	10.58	38.47	60.00	-21.53	QP
4	12.8940	22.78	10.58	33.36	50.00	-16.64	AVG
5	25.2740	25.94	13.00	38.94	60.00	-21.06	QP
6	25.4580	21.16	13.00	34.16	50.00	-15.84	AVG

Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	3.9540	21.39	10.00	31.39	56.00	-24.61	QP
2	4.1620	21.95	10.00	31.95	46.00	-14.05	AVG
3	14.6980	27.46	10.94	38.40	60.00	-21.60	QP
4	14.7540	24.41	10.95	35.36	50.00	-14.64	AVG
5	26.6620	24.81	13.00	37.81	50.00	-12.19	AVG
6	26.9460	28.85	13.00	41.85	60.00	-18.15	QP

***** END OF REPORT *****