

A506, Financial port building, Xin'an Sixth Road, 82th District, Bao'an,

Shenzhen, China.

Telephone: +86-755-33126608, Email: ebo@ebotest.com

Report No.: EBO1707086-E328

Page 1 of 24

FCC REPORT

Applicant: PHILIPS CONSUMER LIFESTYLE

Address of Applicant: High Tech Campus Building HTC 37 - Parterre Eindhoven 5656

AE Netherlands

Equipment Under Test (EUT)

Product Name: SKIN MOISTURE TESTER

Brand Name: Philips

Model No.: ST-01

FCC ID: 2AEFK-BSC711

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2017

Date of sample receipt: July 3, 2017

Date of Test: July 3, 2017 to July 13, 2017

Date of report issued: July 13, 2017

Test Result: PASS *

Authorized Signature:

Kevin Yu Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: EBO1707086-E328

Page 2 of 24

2 Version

Version No.	Date	Description
00	July 13, 2017	Original

Prepared by:	Jason	Date:	July 13, 2017
	Project Engineer		
Reviewed by:	Cenyv	Date:	July 13, 2017



Report No.: EBO1707086-E328 Page 3 of 24

3 Contents

			Page
1	COV	/ER PAGE	1
2	VER	SION	2
3	CON	ITENTS	3
4		T SUMMARY	
-	4.1	MEASUREMENT UNCERTAINTY	
5	GEN	IERAL INFORMATION	5
	5.1 5.2	CLIENT INFORMATIONGENERAL DESCRIPTION OF EUT	5
	5.3	TEST MODE	7
	5.4 5.5	DESCRIPTION OF SUPPORT UNITS TEST FACILITY	
	5.6	TEST LOCATION	
6		T INSTRUMENTS LIST	
7	TES	T RESULTS AND MEASUREMENT DATA	
	7.1	ANTENNA REQUIREMENT	
	7.2	RADIATED EMISSION METHOD	
	7.2.1	J J	
	7.2.2		
	7.2.3 7.3	Bandedge emissions 20DB Occupy Bandwidth	
8	TES	T SETUP PHOTO	20
9	EUT	CONSTRUCTIONAL DETAILS	21

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 4 of 24

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4 2014 and ANSI C63.10 2013.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	± 3.45dB	(1)	
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



Report No.: EBO1707086-E328

Page 5 of 24

5 General Information

5.1 Client Information

Applicant:	PHILIPS CONSUMER LIFESTYLE
Address of Applicant:	High Tech Campus Building HTC 37 - Parterre Eindhoven 5656 AE Netherlands
Manufacturer/Factory:	SHENZHEN VANILLA ELECTRONICS CO., LTD.
Address of Manufacturer/Factory:	2/F, Building B, Shangxingxibu Industrial Zone, Xihuan Road, Shajing, Bao'an, Shenzhen 518109, China

5.2 General Description of EUT

Product Name:	SKIN MOISTURE TESTER
Brand Name:	Philips
Model No.:	ST-01
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 3.0V (CR2050 Battery)

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 6 of 24

Operation F	Operation Frequency each of channel						
Channel	annel Frequency Cha		Frequency	Channel	Channel Frequency		Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12 2424MHz		22 2444MHz		32	2464MHz
• !			• !	• !	• :		
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



Report No.: EBO1707086-E328

Page 7 of 24

5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: New battery is used during all test

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis X		Y	Z	
Field Strength(dBuV/m)	86.42	89.93	87.31	

5.4 Description of Support Units

None

5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 8 of 24

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	203	June. 29 2017	June. 28 2018
4	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	214	June. 29 2017	June. 28 2018
5	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	208	June. 29 2017	June. 28 2018
6	Horn Antenna	ETS-LINDGREN	3160	217	June. 29 2017	June. 28 2018
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	213	June. 29 2017	June. 28 2018
9	Coaxial Cable	GTS	N/A	211	June. 29 2017	June. 28 2018
10	Coaxial cable	GTS	N/A	210	June. 29 2017	June. 28 2018
11	Coaxial Cable	GTS	N/A	212	June. 29 2017	June. 28 2018
12	Amplifier(100kHz- 3GHz)	HP	8347A	204	June. 29 2017	June. 28 2018
13	Amplifier(2GHz- 20GHz)	HP	8349B	206	June. 29 2017	June. 28 2018
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	218	June. 29 2017	June. 28 2018
15	Band filter	Amindeon	82346	219	June. 29 2017	June. 28 2018
16	Constant temperature and humidity box	Oregon Scientific	BA-888	248	June. 29 2017	June. 28 2018
17	D.C. Power Supply	Instek	PS-3030	232	June. 29 2017	June. 28 2018
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	588	June. 29 2017	June. 28 2018
19	Splitter	Agilent	11636B	237	June. 29 2017	June. 28 2018



Report No.: EBO1707086-E328

Page 9 of 24

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 0dBi



Report No.: EBO1707086-E328

Page 10 of 24

7.2 Radiated Emission Method

1.2	Radiated Emission We	tilloa					
	Test Requirement:	FCC Part15 C Section 15.209					
	Test Method:	ANSI C63.10:2013					
	Test Frequency Range:	30MHz to 25GHz					
	Test site:	Measurement D	Distance: 3m				
	Receiver setup:	Frequency	Detector		RBW	VBW	Remark
		30MHz- 1GHz	Quasi-pea	k 1	20KHz	300KHz	Quasi-peak Value
		Ab 21 2 4011-	Peak		1MHz	3MHz	Peak Value
		Above 1GHz	Peak		1MHz	10Hz	Average Value
	Limit:	Freque	ency	Lim	it (dBuV/	m @3m)	Remark
	(Field strength of the fundamental signal)	2400MHz-24	483.5MHz		94.0	0	Average Value
	Limit:	Freque	ency	Lim	it (dBuV/	m @3m)	Remark
	(Spurious Emissions)	30MHz-8			40.0		Quasi-peak Value
	(-,,	88MHz-2			43.50		Quasi-peak Value
		216MHz-9			46.00		Quasi-peak Value
		960MHz-	-1GHz		54.00		Quasi-peak Value
		Above 1	IGHz		54.00 74.00		Average Value Peak Value
	Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by al radi	at least tated emi	50 dB belov	bands, except for w the level of the in Section 15.209,
	Test setup:	EUT	4m 4m 0.8m			Sear Ante	
		ADUVE TOTAL					



Report No.: EBO1707086-E328 Page 11 of 24

	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m Amplifier
Test Procedure:	The EUT was placed on the top of a rotating table 0.8m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:



Report No.: EBO1707086-E328

Page 12 of 24

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	90.74	27.58	5.39	34.01	89.70	114.00	-24.30	Vertical
2402.00	85.53	27.58	5.39	34.01	84.49	114.00	-29.51	Horizontal
2440.00	90.98	27.48	5.43	33.96	89.93	114.00	-24.07	Vertical
2440.00	85.05	27.48	5.43	33.96	84.00	114.00	-30.00	Horizontal
2480.00	89.97	27.52	5.47	33.92	89.04	114.00	-24.96	Vertical
2480.00	84.18	27.52	5.47	33.92	83.25	114.00	-30.75	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.96	27.58	5.39	34.01	79.92	94.00	-14.08	Vertical
2402.00	75.89	27.58	5.39	34.01	74.85	94.00	-19.15	Horizontal
2440.00	81.05	27.48	5.43	33.96	80.00	94.00	-14.00	Vertical
2440.00	74.46	27.48	5.43	33.96	73.41	94.00	-20.59	Horizontal
2480.00	80.09	27.52	5.47	33.92	79.16	94.00	-14.84	Vertical
2480.00	74.66	27.52	5.47	33.92	73.73	94.00	-20.27	Horizontal

Note: RBW 3MHz VBW 3MHz Peak detector is for PK value ,RMS detector is for AV value

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 13 of 24

7.2.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
95.762	30.97	11.35	1.16	29.82	13.66	43.5	-27.81	Vertical
103.08	30.81	11.8	1.22	29.79	14.04	43.5	-28.6	Vertical
210.048	26.99	10.59	1.9	29.47	10.01	43.5	-34.27	Vertical
315.481	26.59	13.79	2.44	30.11	12.71	46	-34.25	Vertical
552.883	24.56	18.45	3.53	29.45	17.09	46	-29.06	Vertical
925.756	24.94	22.36	4.95	29.28	22.97	46	-20.93	Vertical
49.187	24.68	12.23	0.76	30.1	7.57	40	-32.43	Horizontal
119.856	26.58	9.4	1.36	29.72	7.62	43.5	-35.88	Horizontal
192.419	26	9.87	1.8	29.44	8.23	43.5	-35.27	Horizontal
326.74	26.06	14.03	2.5	30.04	12.55	46	-33.45	Horizontal
504.706	25.29	17.61	3.33	29.5	16.73	46	-29.27	Horizontal
836.244	24.83	21.62	4.6	29.17	21.88	46	-24.12	Horizontal



Report No.: EBO1707086-E328

Page 14 of 24

■ Above 1GHz

Test channel	l:	Lowest channel							
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4804.00	37.41	31.78	8.60	32.09	45.70	74.00	-28.30	Vertical	
7206.00	31.90	36.15	11.65	32.00	47.70	74.00	-26.30	Vertical	
9608.00	31.53	37.95	14.14	31.62	52.00	74.00	-22.00	Vertical	
12010.00	*					74.00		Vertical	
14412.00	*					74.00		Vertical	
4804.00	41.72	31.78	8.60	32.09	50.01	74.00	-23.99	Horizontal	
7206.00	33.66	36.15	11.65	32.00	49.46	74.00	-24.54	Horizontal	
9608.00	30.96	37.95	14.14	31.62	51.43	74.00	-22.57	Horizontal	
12010.00	*					74.00		Horizontal	
14412.00	*					74.00		Horizontal	
_									

Average value:

Average var	uo.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.20	31.78	8.60	32.09	34.49	54.00	-19.51	Vertical
7206.00	20.57	36.15	11.65	32.00	36.37	54.00	-17.63	Vertical
9608.00	19.64	37.95	14.14	31.62	40.11	54.00	-13.89	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.44	31.78	8.60	32.09	38.73	54.00	-15.27	Horizontal
7206.00	22.75	36.15	11.65	32.00	38.55	54.00	-15.45	Horizontal
9608.00	19.38	37.95	14.14	31.62	39.85	54.00	-14.15	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 15 of 24

Test channe	l:	Middle						
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	36.95	31.85	8.67	32.12	45.35	74.00	-28.65	Vertical
7320.00	31.59	36.37	11.72	31.89	47.79	74.00	-26.21	Vertical
9760.00	31.26	38.35	14.25	31.62	52.24	74.00	-21.76	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.16	31.85	8.67	32.12	49.56	74.00	-24.44	Horizontal
7320.00	33.32	36.37	11.72	31.89	49.52	74.00	-24.48	Horizontal
9760.00	30.65	38.35	14.25	31.62	51.63	74.00	-22.37	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	25.84	31.85	8.67	32.12	34.24	54.00	-19.76	Vertical
7320.00	20.33	36.37	11.72	31.89	36.53	54.00	-17.47	Vertical
9760.00	19.43	38.35	14.25	31.62	40.41	54.00	-13.59	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	30.03	31.85	8.67	32.12	38.43	54.00	-15.57	Horizontal
7320.00	22.48	36.37	11.72	31.89	38.68	54.00	-15.32	Horizontal
9760.00	19.13	38.35	14.25	31.62	40.11	54.00	-13.89	Horizontal

54.00

54.00

Horizontal

Horizontal

14640.00 Remark:

12200.00

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

"*", means this data is the too weak instrument of signal is unable to test.

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Horizontal

Horizontal

Page 16 of 24

54.00

54.00

Test channel	l:	Highest							
Peak value:				<u>'</u>					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	35.66	31.93	8.73	32.16	44.16	74.00	-29.84	Vertical	
7440.00	30.74	36.59	11.79	31.78	47.34	74.00	-26.66	Vertical	
9920.00	30.49	38.81	14.38	31.88	51.80	74.00	-22.20	Vertical	
12400.00	*					74.00		Vertical	
14880.00	*					74.00		Vertical	
4960.00	39.60	31.93	8.73	32.16	48.10	74.00	-25.90	Horizontal	
7440.00	32.35	36.59	11.79	31.78	48.95	74.00	-25.05	Horizontal	
9920.00	29.76	38.81	14.38	31.88	51.07	74.00	-22.93	Horizontal	
12400.00	*					74.00		Horizontal	
14880.00	*					74.00		Horizontal	
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	24.82	31.93	8.73	32.16	33.32	54.00	-20.68	Vertical	
7440.00	19.63	36.59	11.79	31.78	36.23	54.00	-17.77	Vertical	
9920.00	18.81	38.81	14.38	31.88	40.12	54.00	-13.88	Vertical	
12400.00	*					54.00		Vertical	
14880.00	*					54.00		Vertical	
4960.00	28.87	31.93	8.73	32.16	37.37	54.00	-16.63	Horizontal	
7440.00	21.70	36.59	11.79	31.78	38.30	54.00	-15.70	Horizontal	
9920.00	18.41	38.81	14.38	31.88	39.72	54.00	-14.28	Horizontal	

Remark:

12400.00

14880.00

*

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: EBO1707086-E328

Page 17 of 24

7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channe	el:		Lowest channel							
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
2390.00	41.26	27.59	5.38	30.18	44.05	74.00	-29.95	Horizontal		
2400.00	43.82	27.58	5.39	30.18	46.61	74.00	-27.39	Horizontal		
2390.00	41.66	27.59	5.38	30.18	44.45	74.00	-29.55	Vertical		
2400.00	45.68	27.58	5.39	30.18	48.47	74.00	-25.53	Vertical		
Average value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
2390.00	32.18	27.59	5.38	30.18	34.97	54.00	-19.03	Horizontal		
2400.00	33.32	27.58	5.39	30.18	36.11	54.00	-17.89	Horizontal		
2390.00	32.01	27.59	5.38	30.18	34.80	54.00	-19.20	Vertical		
2400.00	34.81	27.58	5.39	30.18	37.60	54.00	-16.40	Vertical		
Test channe	el:			Hi	ghest channe	l				
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
2483.50	43.17	27.53	5.47	29.93	46.24	74.00	-27.76	Horizontal		

Average value:

42.65

43.74

43.50

27.55

27.53

27.55

2500.00

2483.50

2500.00

Average va	iac.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.98	27.53	5.47	29.93	38.05	54.00	-15.95	Horizontal
2500.00	33.22	27.55	5.49	29.93	36.33	54.00	-17.67	Horizontal
2483.50	36.06	27.53	5.47	29.93	39.13	54.00	-14.87	Vertical
2500.00	33.00	27.55	5.49	29.93	36.11	54.00	-17.89	Vertical

29.93

29.93

29.93

45.76

46.81

46.61

74.00

74.00

74.00

-28.24

-27.19

-27.39

Horizontal

Vertical

Vertical

Remark:

5.49

5.47

5.49

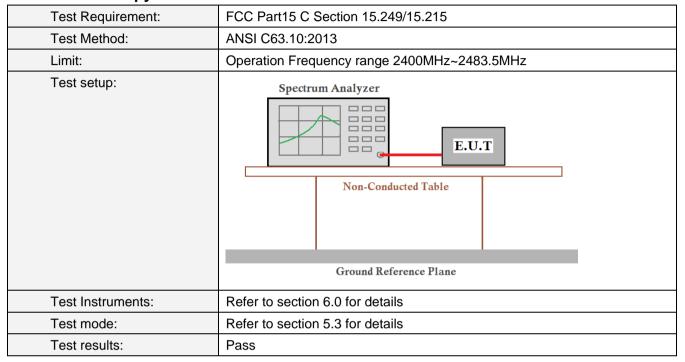
^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



Report No.: EBO1707086-E328

Page 18 of 24

7.3 20dB Occupy Bandwidth



Measurement Data

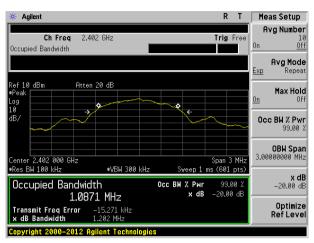
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.202	Pass
Middle	1.194	Pass
Highest	1.202	Pass

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ebotest.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.ebotest.com Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

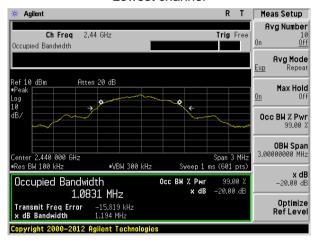


Report No.: EBO1707086-E328 Page 19 of 24

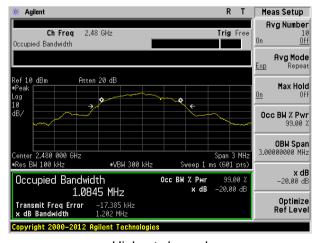
Test plot as follows:



Lowest channel



Middle channel



Highest channel



Report No.: EBO1707086-E328

Page 20 of 24

8 Test Setup Photo

Radiated Emission





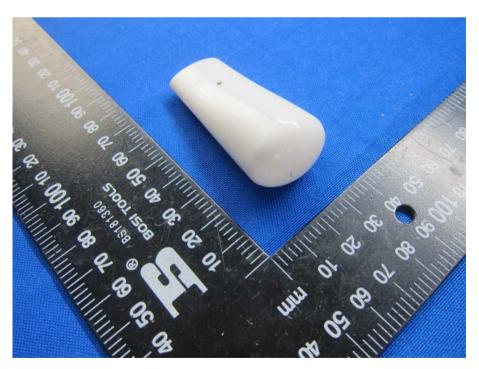


Report No.: EBO1707086-E328

Page 21 of 24

9 EUT Constructional Details

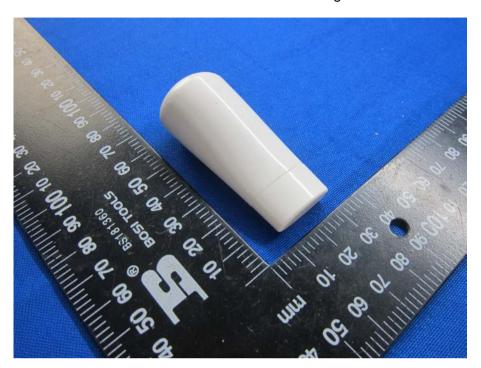






Report No.: EBO1707086-E328

Page 22 of 24

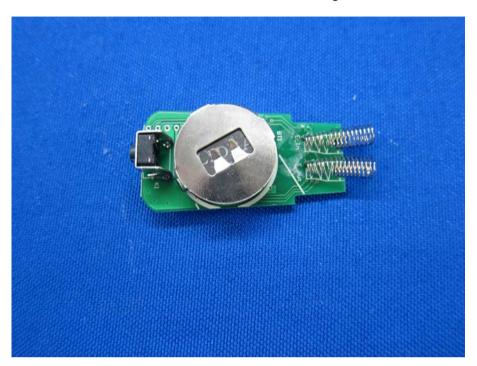


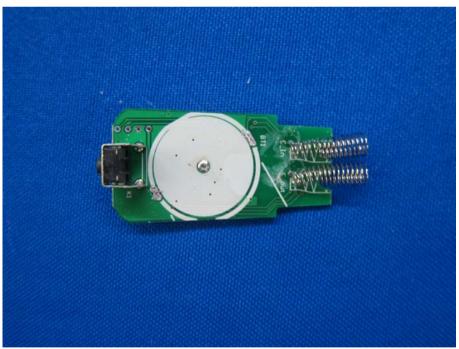




Report No.: EBO1707086-E328

Page 23 of 24

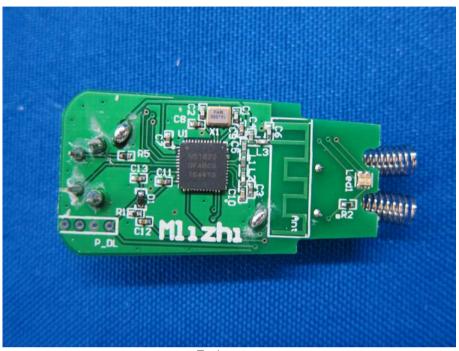






Report No.: EBO1707086-E328

Page 24 of 24



-----End-----