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Issued date : June 16, 2016
FCC ID : 2AEFK-DL8791

RADIO TEST REPORT

Test Report No.: 11023664H-A

Applicant : Philips Consumer Lifestyle B.V.

Type of Equipment : Philips Health Watch

Model No. : DL8791

FCC ID : 2AEFK-DL8791

Test regulation : FCC Part 15 Subpart C: 2015

Test Result : Complied

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- 2. The results in this report apply only to the sample tested.
- 3. This sample tested is in compliance with the above regulation.
- 4. The test results in this report are traceable to the national or international standards.
- 5. This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- 6. This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)

Date of test:

June 9 to 14, 2016

Representative test engineer:

Takafumi Noguchi

Engineer

Consumer Technology Division

Approved by:

Tsubasa Takayama

Engineer

Consumer Technology Division



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REVISION HISTORY

Original Test Report No.: 11023664H-A

Revision	Test report No.	Date	Page revised	Contents
- (Original)	11023664H-A	June 16, 2016	-	-

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SECTION 1: Customer information

Company Name : Philips Consumer Lifestyle B.V.

Address : Tussendiepen 4, 9206 AD Drachten, The Netherlands

Contact Person : Wilbert Pennings

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Philips Health Watch

Model No. : DL8791

Serial No. : Refer to Section 4, Clause 4.2

Rating : DC 3.7 V (internal battery), USB charging cradle: DC 5 V

Receipt Date of Sample : June 7, 2016 Country of Mass-production : China

Condition of EUT : Engineering prototype

(Not for Sale: This sample is equivalent to mass-produced items.)

Modification of EUT : No Modification by the test lab

2.2 Product Description

Model: DL8791 (referred to as the EUT in this report) is a Philips Health Watch.

General Specification

Clock frequency(ies) in the system : Bluetooth chip 48 MHz;

other frequencies in the system: 24 MHz, 2.09 MHz, 32.768 kHz, 16 MHz, 5 to 200 kHz(the switching frequency range (from 5 to 200 KHz) of the

Buck Converter), 222 kHz

Radio Specification Bluetooth Low Energy

Radio Type : Transceiver

Frequency of Operation : 2402 MHz - 2480 MHz

Modulation : GFSK
Power Supply (radio part input) : DC 3.0 V

Antenna type : Monopole type (internal)

Antenna Gain : 0 dBi

Operating temperature range : +5 to +40deg.C

Model differences

Model DL8790, DL8791 and DL8792 are identical. Only difference is the model number.

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part 15 Subpart C: 2015, final revised on November 23, 2015

*Some parts are effective on and after December 17, 2015 or December 23, 2015. The revision does not affect the test specification applied to the EUT.

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators

Section 15.207 Conducted limits

Section 15.247 Operation within the bands 902-928MHz,

2400-2483.5MHz, and 5725-5850MHz

3.2 Procedures and results

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Conducted Emission	FCC: ANSI C63.10-2013 6. Standard test methods IC: RSS-Gen 8.8	FCC: Section 15.207 IC: RSS-Gen 8.8	N/A	N/A	N/A *1)
6dB Bandwidth	FCC: KDB 558074 D01 DTS Meas Guidance v03r05 IC: -	FCC: Section 15.247(a)(2) IC: RSS-247 5.2(1)		Complied	Conducted
Maximum Peak Output Power	FCC: KDB 558074 D01 DTS Meas Guidance v03r05 IC: RSS-Gen 6.12	FCC: Section 15.247(b)(3) IC: RSS-247 5.4(4)	See data.	Complied	Conducted
Power Density	FCC: KDB 558074 D01 DTS Meas Guidance v03r05 IC: -	FCC: Section 15.247(e) IC: RSS-247 5.2(2)		Complied	Conducted
Spurious Emission Restricted Band Edges	FCC: ANSI C63.10-2013 : KDB 558074 D01 DTS Meas Guidance v03r05 IC: ANSI C63.10-2013 RSS-Gen 6.13	IC: RSS-247 5.5 RSS-Gen 8.9 RSS-Gen 8.10	0.4 dB 4804.000 MHz, Horizontal, AV	Complied	Conducted (below 30 MHz)/ Radiated (above 30 MHz) *2)

Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0420 and 13-EM-W0422.

FCC Part 15.31 (e)

This EUT provides stable voltage (DC 3.0 V) constantly to RF Module regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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^{*1)} The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.

^{*2)} Radiated test was selected over 30 MHz based on section 15.247(d) and KDB 558074 D01 DTS Meas Guidance v03r05 12.2.7.

^{*} In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

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3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
99% Occupied	IC: RSS-Gen 6.6	IC: -	N/A	-	Conducted
Bandwidth					

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k = 2. Ise EMC Lab.

	Antenna terminal test Uncertainty (+/-)							
Po	ower meter Conducted emission and Power density				Conducted	d emission		
Below	Above	Below	1 GHz	3 GHz	18 GHz	26.5 GHz	Channel power	
1 GHz	1 GHz	1 GHz	-3 GHz	-18 GHz	-26.5 GHz	-40 GHz		
0.9 dB	1.0 dB	1.4 dB	1.7 dB	2.8 dB	2.8 dB	2.9 dB	2.6 dB	

Test distance	Radiated emission (<u>+</u> dB) 9 kHz - 30 MHz
3m	3.8 dB
10m	3.7 dB

	Radiated emission (Below 1GHz)					
Polarity	(3 m*)(<u>+</u> d	B)	(10 m*)(<u>+</u> dB)			
lolarity	30 – 200 MHz	200 –	30 – 200 MHz	200 –		
	30 – 200 M HZ	1000MHz	30 – 200 M HZ	1000MHz		
Horizontal	4.9 dB	5.2 dB	4.9 dB	5.0 dB		
Vertical	4.6 dB	5.9 dB	5.0 dB	5.0 dB		

Radiated emission						
	m*)(<u>+</u> dB)	(1 m*)	(10 m*)(<u>+</u> dB)			
1 – 6GHz	6 – 18GHz	10 – 26.5 GHz	26.5 – 40GHz	1 -18 GHz		
5.1 dB	5.3 dB	5.1 dB	5.1 dB	5.3 dB		

^{*}M easurement distance

 $\frac{Radiated\ emission\ test}{The\ data\ listed\ in\ this\ report\ meets\ the\ limits\ unless\ the\ uncertainty\ is\ taken\ into\ consideration.}$

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3.5 Test Location

UL Japan, Inc. Ise EMC Lab. *NVLAP Lab. code: 200572-0 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN Telephone: +81 596 24 8999, Facsimile: +81 596 24 8124

Test site	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measuremen t distance
No.1 semi-anechoic chamber	2973C-1	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber	2973C-2	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	2973C-3	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	-	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	2973C-4	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	-	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	-	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.6 shielded room	_	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	_	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	-	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	-	3.1 x 5.0 x 2.7	N/A	-	-
No.9 measurement room	-	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.11 measurement room	-	6.2 x 4.7 x 3.0	4.8 x 4.6	-	-

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

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SECTION 4: Operation of E.U.T. during testing

4.1 Operating Mode(s)

Bluetooth Low Energy (BT LE): Transmitting (Tx)

Details of Operating Mode(s)

Test Item	Operating Mode	Tested Frequency
Spurious Emission	BT LE Tx	2402MHz
6dB Bandwidth		2440MHz
Maximum Peak Output Power		2480MHz
Power Density		
99% Occupied Bandwidth		

Power of the EUT was set by the software as follows;

Power settings: +5dBm

Software: HCI Tester ver 2.3.5.0

Any conditions under the normal use do not exceed the condition of setting.

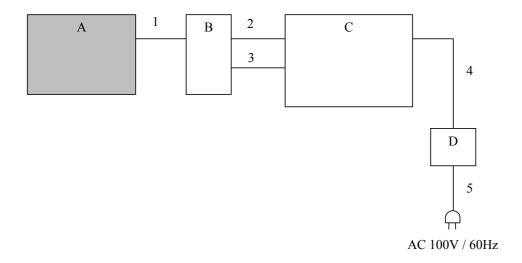
In addition, end users cannot change the settings of the output power of the product.

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^{*}This setting of software is the worst case.

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4.2 Configuration and peripherals



^{*} Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT

DUSCI	vescription of Ee 1						
No.	Item	Model number	Serial number	Manufacturer	Remarks		
A	Philips Health Watch	Philips Health	721900215 *1)	PHILIPS	EUT		
		Watch	439800049 *2)				
В	Jig	-	-	-	-		
С	Laptop PC	CF-N8HWCDPS	-	Panasonic	-		
D	AC Adapter	CF-AA6372B	-	Panasonic	-		

^{*1)} Used for Conducted Emission test and Radiated Emission test

List of cables used

List of Cables used						
No.	Name	Length (m)	Shi	Shield		
			Cable	Connector		
1	Signal Cable	0.2	Unshielded	Unshielded	*1)	
2	USB Cable	1.0	Shielded	Shielded	-	
3	USB Cable	0.8	Sshielded	Shielded	-	
4	DC Power Cable	1.0	Unshielded	Unshielded	-	
5	AC Power Cable	0.8	Unshielded	Unshielded	-	

^{*1)} Cable No.1 is a cable for Control. This cable is not a part of the product, but it is not removable from the product. Therefore the test was performed with the state which fitted out the cable in the product.

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^{*2)} Used for Antenna Terminal conducted test

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SECTION 5: Radiated Spurious Emission

Test Procedure

It was measured based on "11.0 Emissions in non-restricted frequency bands" of "558074 D01 DTS Meas Guidance v03r05".

[For below 1 GHz]

EUT was placed on a urethane platform of nominal size, 0.5 m by 1.0 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

[For above 1 GHz]

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane.

The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane.

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

Test Antennas are used as below;

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

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In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20 dBc was applied to the frequency over the limit of FCC 15.209 / Table 4 of RSS-Gen 8.9(IC) and outside the

restricted band of FCC15.205 / Table 6 of RSS-Gen 8.10 (IC).

Frequency	Below 1 GHz	Above 1 GHz		20 dBc
Instrument used	Test Receiver	Spectrum Analy	zer	Spectrum Analyzer
Detector	QP	PK	AV *3)	PK
IF Bandwidth	BW 120 kHz	RBW: 1 MHz	Average Power Method:	RBW: 100 kHz
		VBW: 3 MHz	RBW: 1 MHz	VBW: 300kHz
			VBW: 3 MHz	
			Detector:	
			Power Averaging (RMS)	
			Trace: 100 traces	
			If duty cycle was less than	
			98%, a duty factor was	
			added to the results.	
			Reduced VBW averaging:	
			RBW: 1 MHz	
			$VBW : \ge 1/T$	
			Detector: Peak	
			Sweep time: auto	
			Trace mode: max hold	
Test Distance	3 m	3 m *1) (1 GHz	– 10 GHz),	3 m *1) (1 GHz – 10 GHz),
			z – 26.5 GHz)	1 m *2) (10 GHz – 26.5 GHz)

^{*1)} Distance Factor: $20 \times \log (4.5 \text{ m} / 3.0 \text{ m}) = 3.53 \text{ dB}$

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range : 30 M - 26.5 GHz
Test data : APPENDIX

Test result : Pass

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^{*2)} Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$

^{*3}) Average Power Measurement was performed based on 6. 0 & 12.2.5 of "KDB 558074 D01 DTS Meas Guidance v03r05" and 4.1.4.2.3 of "ANSI C63.10-2013"

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SECTION 6: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used
6dB Bandwidth	2 MHz	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
99% Occupied Bandwidth *1)	Enough width to display emission skirts	1 to 5 % of OBW	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Peak Output Power	-	-	-	Auto	Peak/ Average *2)	-	Power Meter (Sensor: 50 MHz BW)
Peak Power Density	1.5 times the 6dB Bandwidth	3 kHz	10 kHz	Auto	Peak	Max Hold	Spectrum Analyzer *3)
Conducted Spurious Emission *4)	9kHz to 150kHz 150kHz to 30MHz	200 Hz 9.1 kHz	620 Hz 27 kHz	Auto	Peak	Max Hold	Spectrum Analyzer

^{*1)} Peak hold was applied as Worst-case measurement.

The test results and limit are rounded off to two decimals place, so some differences might be observed.

Test data : APPENDIX

Test result : Pass

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^{*2)} Reference data

^{*3)} Section 10.2 Method PKPSD (peak PSD) of "KDB 558074 D01 DTS Meas Guidance v03r05".

^{*4)} In the frequency range below 30MHz, RBW was narrowed to separate the noise contents.

Then, wide-band noise near the limit was checked separately, however the noise was low enough as shown in the chart.

(9 kHz - 150 kHz: RBW = 200 Hz, 150 kHz - 30 MHz: RBW = 9.1 kHz).

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APPENDIX 1: Test data

6dB Bandwidth

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya
Mode Tx BT LE

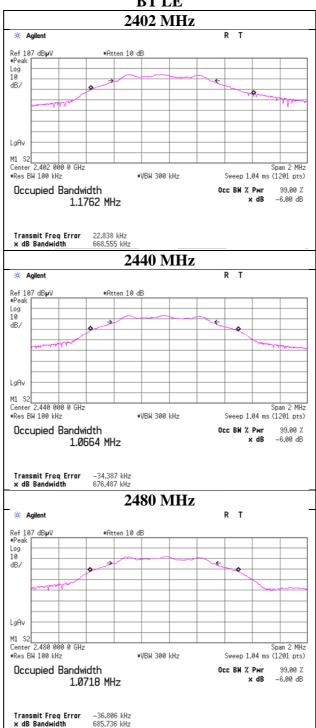
Mode	Frequency	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
BT LE	2402	0.669	> 500
	2440	0.676	> 500
	2480	0.686	> 500

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6dB Bandwidth

BT LE



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Maximum Peak Output Power

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya
Mode Tx BT LE

BT LE

Freq.	Reading	Cable	Atten.	Res	sult	Li	mit	Margin
		Loss	Loss					
[MHz]	[dBm]	[dB]	[dB]	[dBm] [mW]		[dBm]	[mW]	[dB]
2402	-15.31	2.44	10.06	-2.81	0.52	30.00	1000	32.81
2440	-16.26	2.45	10.06	-3.75	0.42	30.00	1000	33.75
2480	-17.16	2.45	10.06	-4.65 0.34		30.00	1000	34.65

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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Average Output Power (Reference data for RF Exposure / SAR testing)

Test place Ise EMC Lab. No.11 Measurement Room

11023664H Report No. Date June 9, 2016 Temperature / Humidity 24 deg. C / 63 % RH Yuta Moriya

Engineer Mode Tx BT LE

BT LE

Freq.	Reading	Cable	Atten.	Re	sult	Duty	Re	esult
		Loss	Loss	(Time average)		factor	(Burst pov	ver average)
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
2402	-17.76	2.44	10.06	-5.26	0.30	1.79	-3.47	0.45
2440	-18.86	2.45	10.06	-6.35	0.23	1.79	-4.56	0.35
2480	-20.07	2.45	10.06	-7.56	0.18	1.79	-5.77	0.26

Sample Calculation:

Result (Time average) = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Result (Burst power average) = Frame power + Duty factor

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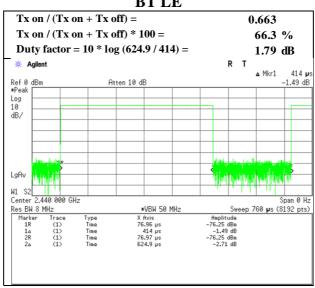
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Burst rate confirmation

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H Date June 9, 2016 Temperature / Humidity 24 deg. C / 63 % RH Yuta Moriya Engineer Mode Tx BT LE

BT LE



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Radiated Spurious Emission

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

Report No. 11023664H

DateJune 13, 2016June 14, 2016Temperature / Humidity22 deg. C / 68 % RH23 deg. C / 68 % RHEngineerTakafumi NoguchiKen Fujita

ineer Takafumi Noguchi Ken Fujita (Above 1 GHz) (Below 1 GHz)

Mode Tx BT LE 2402 MHz

Polarity	Frequency	Detector	Reading		Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori	67.432	QP	35.1	6.3	7.6	32.2	-	16.8	40.0	23.2	
Hori	76.550	QP	38.7	5.9	7.7	32.2	-	20.1	40.0	19.9	
Hori	133.737	QP	32.7	13.7	8.4	32.1	-	22.7	43.5	20.8	
Hori	192.955	QP	34.9	16.5	9.0	32.1	-	28.3	43.5	15.2	
Hori	221.900	QP	40.7	11.9	9.2	32.0	-	29.8	46.0	16.2	
Hori	296.400	QP	44.7	13.4	9.8	31.9	-	36.0	46.0	10.0	
Hori	2390.000	PK	46.3	26.7	6.8	32.7	-	47.1	73.9	26.8	
Hori	4804.000	PK	50.8	31.0	9.1	31.8	-	59.1	73.9	14.8	
Hori	7206.000	PK	45.2	35.7	10.3	32.6	-	58.6	73.9	15.3	
Hori	9608.000	PK	42.4	37.2	9.6	33.2	-	56.0	73.9	17.9	Floor noise
Hori	2390.000	AV	33.9	26.7	6.8	32.7	1.8	36.5	53.9	17.4	*1)
Hori	4804.000	AV	45.2	31.0	9.1	31.8	-	53.5	53.9	0.4	*2)
Hori	7206.000	AV	36.5	35.7	10.3	32.6	1.8	51.7	53.9	2.2	
Hori	9608.000	AV	34.3	37.2	9.6	33.2	-	47.9	53.9	6.0	Floor noise
Vert	65.280	QP	43.7	6.6	7.6	32.2	-	25.7	40.0	14.3	
Vert	75.900	QP	41.4	5.9	7.7	32.2	-	22.8	40.0	17.2	
Vert	122.174	QP	32.0	12.8	8.3	32.2	-	20.9	43.5	22.6	
Vert	196.975	QP	27.1	16.7	9.0	32.1	-	20.7	43.5	22.8	
Vert	221.400	QP	39.3	11.9	9.2	32.0	-	28.4	46.0	17.6	
Vert	300.700	QP	45.0	13.5	9.8	31.9	-	36.4	46.0	9.6	
Vert	2390.000	PK	43.9	26.7	6.8	32.7	-	44.7	73.9	29.2	
Vert	4804.000	PK	50.7	31.0	9.1	31.8	-	59.0	73.9	14.9	
Vert	7206.000	PK	44.6	35.7	10.3	32.6	-	58.0	73.9	15.9	
Vert	9608.000	PK	42.4	37.2	9.6	33.2	-	56.0	73.9	17.9	Floor noise
Vert	2390.000	AV	33.5	26.7	6.8	32.7	1.8	36.1	53.9	17.8	*1)
Vert	4804.000	AV	45.0	31.0	9.1	31.8	-	53.3	53.9	0.6	*2)
Vert	7206.000	AV	36.3	35.7	10.3	32.6	1.8	51.5	53.9	2.4	
Vert	9608.000	AV	34.2	37.2	9.6	33.2	-	47.8	53.9	6.1	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB

10 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

20dBc Data Sheet

Polarity	Frequency	Detector	Reading	Ant	Loss	Gain	Result	Limit	Margin	Remark
				Factor						
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori	2402.000	PK	79.4	26.7	6.8	32.7	80.2	-	-	Carrier
Hori	2400.000	PK	44.8	26.7	6.8	32.7	45.6	60.2	14.6	
Vert	2402.000	PK	76.3	26.7	6.8	32.7	77.1	-	-	Carrier
Vert	2400.000	PK	42.0	26.7	6.8	32.7	42.8	57.1	14.3	

 $Result = Reading + Ant \ Factor + Loss \ (Cable + Attenuator + Filter + Distance \ factor (above \ 1 \ GHz)) - Gain (Amprifier)$

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^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

^{*1)} Not Out of Band emission(Leakage Power)

^{*2)} It used Reduced VBW averaging across on and off times of the EUT Transmissions with max hold.

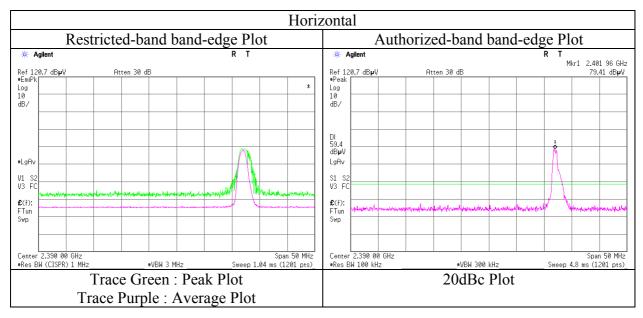
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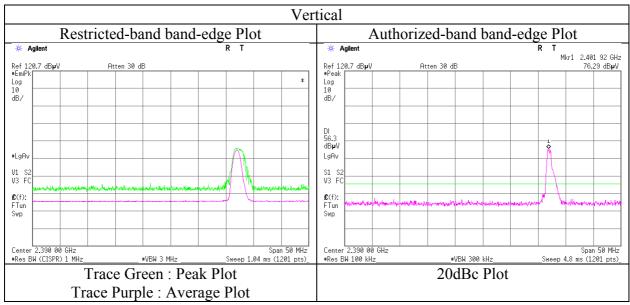
<u>Radiated Spurious Emission</u> (Reference Plot for band-edge)

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

Report No. 11023664H
Date June 13, 2016
Temperature / Humidity 22 deg. C / 68 % RH
Engineer Takafumi Noguchi
(Above 1 GHz)

Mode Tx BT LE 2402 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

Report No. 11023664H

 Date
 June 13, 2016
 June 14, 2016

 Temperature / Humidity
 22 deg. C / 68 % RH
 23 deg. C / 68 % RH

Engineer Takafumi Noguchi Ken Fujita (Above 1 GHz) (Below 1 GHz)

Mode Tx BT LE 2440 MHz

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori	67.456	QP	35.0	6.3	7.6	32.2	-	16.7	40.0	23.3	
Hori	76.500	QP	38.0	5.9	7.7	32.2	-	19.4	40.0	20.6	
Hori	133.737	QP	31.8	13.7	8.4	32.1	-	21.8	43.5	21.7	
Hori	192.865	QP	35.0	16.5	9.0	32.1	-	28.4	43.5	15.1	
Hori	221.905	QP	40.9	11.9	9.2	32.0	-	30.0	46.0	16.0	
Hori	296.400	QP	43.4	13.4	9.8	31.9	-	34.7	46.0	11.3	
Hori	4880.000	PK	48.3	31.3	9.1	31.7	-	57.0	73.9	16.9	
Hori	7320.000	PK	41.7	35.6	8.9	32.6	-	53.6	73.9	20.3	Floor noise
Hori	9760.000	PK	41.8	37.2	9.6	33.3	-	55.3	73.9	18.6	Floor noise
Hori	4880.000	AV	42.1	31.3	9.1	31.7	-	50.8	53.9	3.1	*2)
Hori	7320.000	AV	31.9	35.6	8.9	32.6	-	43.8	53.9	10.1	Floor noise
Hori	9760.000	AV	33.7	37.2	9.6	33.3	-	47.2	53.9	6.7	Floor noise
Vert	65.580	QP	43.9	6.6	7.6	32.2	-	25.9	40.0	14.1	
Vert	75.920	QP	40.9	5.9	7.7	32.2	-	22.3	40.0	17.7	
Vert	122.241	QP	31.0	12.8	8.3	32.2	-	19.9	43.5	23.6	
Vert	196.975	QP	26.9	16.7	9.0	32.1	-	20.5	43.5	23.0	
Vert	221.531	QP	39.1	11.9	9.2	32.0	-	28.2	46.0	17.8	
Vert	300.700	QP	45.2	13.5	9.8	31.9	-	36.6	46.0	9.4	
Vert	4880.000	PK	46.5	31.3	9.1	31.7	-	55.2	73.9	18.7	
Vert	7320.000	PK	40.2	35.6	8.9	32.6	-	52.1	73.9	21.8	Floor noise
Vert	9760.000	PK	41.8	37.2	9.6	33.3	-	55.3	73.9	18.6	Floor noise
Vert	4880.000	AV	39.3	31.3	9.1	31.7	-	48.0	53.9	5.9	*2)
Vert	7320.000	AV	32.0	35.6	8.9	32.6	-	43.9	53.9	10.0	Floor noise
Vert	9760.000	AV	33.8	37.2	9.6	33.3	-	47.3	53.9	6.6	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Distance factor: 1 GHz - 10 GHz $20 \log (4.5 \text{ m} / 3.0 \text{ m}) = 3.53 \text{ dB}$

 $10 \text{ GHz} - 26.5 \text{ GHz} \ 20 \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$

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^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

^{*2)} It used Reduced VBW averaging across on and off times of the EUT Transmissions with max hold.

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Radiated Spurious Emission

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

Report No. 11023664H

 Date
 June 13, 2016
 June 14, 2016

 Temperature / Humidity
 22 deg. C / 68 % RH
 23 deg. C / 68 % RH

Engineer Takafumi Noguchi Ken Fujita (Above 1 GHz) (Below 1 GHz)

Mode Tx BT LE 2480 MHz

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori	67.321	QP	34.8	6.3	7.6	32.2	-	16.5	40.0	23.5	
Hori	76.511	QP	37.8	5.9	7.7	32.2	-	19.2	40.0	20.8	
Hori	133.721	QP	31.3	13.7	8.4	32.1	-	21.3	43.5	22.2	
Hori	192.888	QP	35.1	16.5	9.0	32.1	-	28.5	43.5	15.0	
Hori	221.915	QP	41.2	11.9	9.2	32.0	-	30.3	46.0	15.7	
Hori	296.400	QP	43.2	13.4	9.8	31.9	-	34.5	46.0	11.5	
Hori	2483.500	PK	47.2	26.8	6.9	32.6	-	48.3	73.9	25.6	
Hori	4960.000	PK	47.3	31.5	9.0	31.7	-	56.1	73.9	17.8	
Hori	7440.000	PK	40.7	35.5	9.0	32.7	-	52.5	73.9	21.4	Floor noise
Hori	9920.000	PK	42.7	37.2	9.7	33.4	-	56.2	73.9	17.7	Floor noise
Hori	2483.500	AV	34.4	26.8	6.9	32.6	1.8	37.3	53.9	16.6	*1)
Hori	4960.000	AV	41.1	31.5	9.0	31.7	-	49.9	53.9	4.0	*2)
Hori	7440.000	AV	32.1	35.5	9.0	32.7	-	43.9	53.9	10.0	Floor noise
Hori	9920.000	AV	34.5	37.2	9.7	33.4	-	48.0	53.9	5.9	Floor noise
Vert	65.560	QP	44.0	6.6	7.6	32.2	-	26.0	40.0	14.0	
Vert	75.897	QP	41.2	5.9	7.7	32.2	-	22.6	40.0	17.4	
Vert	122.221	QP	30.0	12.8	8.3	32.2	-	18.9	43.5	24.6	
Vert	196.962	QP	27.0	16.7	9.0	32.1	-	20.6	43.5	22.9	
Vert	221.551	QP	39.1	11.9	9.2	32.0	-	28.2	46.0	17.8	
Vert	300.301	QP	45.0	13.5	9.8	31.9	-	36.4	46.0	9.6	
Vert	2483.500	PK	47.0	26.8	6.9	32.6	-	48.1	73.9	25.8	
Vert	4960.000	PK	45.8	31.5	9.0	31.7	-	54.6	73.9	19.3	
Vert	7440.000	PK	40.5	35.5	9.0	32.7	-	52.3	73.9	21.6	Floor noise
Vert	9920.000	PK	42.7	37.2	9.7	33.4	-	56.2	73.9	17.7	Floor noise
Vert	2483.500	AV	33.6	26.8	6.9	32.6	1.8	36.5	53.9	17.4	*1)
Vert	4960.000	AV	37.8	31.5	9.0	31.7	-	46.6	53.9	7.3	*2)
Vert	7440.000	AV	32.1	35.5	9.0	32.7	-	43.9	53.9	10.0	Floor noise
Vert	9920.000	AV	34.6	37.2	9.7	33.4	_	48.1	53.9	5.8	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB 10 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

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^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

^{*1)} Not Out of Band emission(Leakage Power)

^{*2)} It used Reduced VBW averaging across on and off times of the EUT Transmissions with max hold.

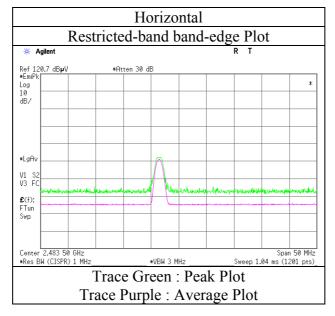
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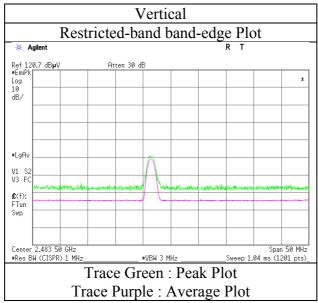
<u>Radiated Spurious Emission</u> (Reference Plot for band-edge)

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

Report No. 11023664H
Date June 13, 2016
Temperature / Humidity 22 deg. C / 68 % RH
Engineer Takafumi Noguchi
(Above 1 GHz)

Mode Tx BT LE 2480 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission (Plot data, Worst case)

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber

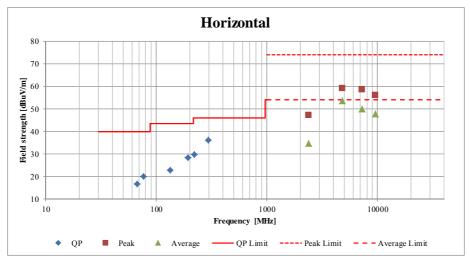
Report No. 11023664H

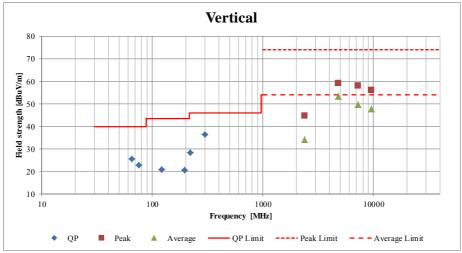
 Date
 June 13, 2016
 June 14, 2016

 Temperature / Humidity
 22 deg. C / 68 % RH
 22 deg. C / 68 % RH

Engineer Takafumi Noguchi Ken Fujita (Above 1 GHz) (Below 1 GHz)

Mode Tx BT LE 2402 MHz





^{*}These plots data contains sufficient number to show the trend of characteristic features for EUT.

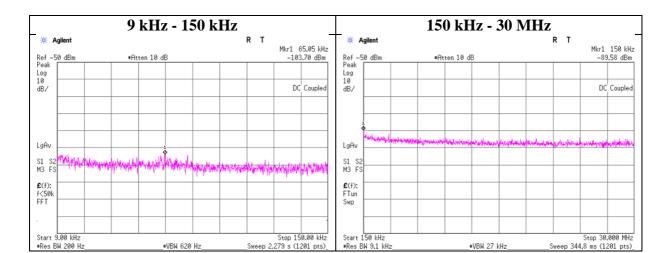
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Conducted Spurious Emission

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya
Mode Tx BT LE 2402 MHz



	Frequency	Reading	Cable	Attenator	Antenna	N	EIRP	Distance	Ground	Е	Limit	Margin	Remark
			Loss	Loss	Gain	(Number			bounce	(field strength)			
ı	[kHz]	[dBm]	[dB]	[dB]	[dBi]	of Output)	[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
	65.05	-103.7	1.50	9.8	2.0	1	-90.4	300	6.0	-29.1	31.3	60.4	
	150.00	-89.6	1.51	9.8	2.0	1	-76.2	300	6.0	-15.0	24.0	39.0	

E = EIRP - 20 log (D) + Ground bounce + 104.8 [dBuV/m]

EIRP = Reading + Cable Loss + Attenator Loss + Antenna Gain + 10 * log (N)

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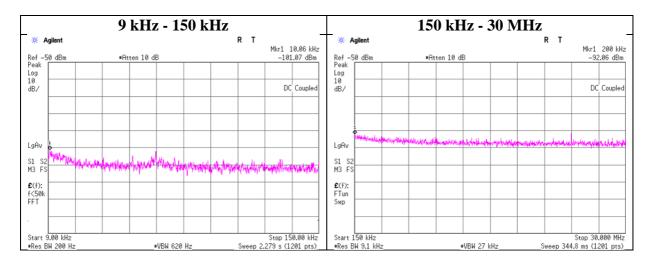
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Conducted Spurious Emission

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya

Mode Tx BT LE 2440 MHz



Frequency	Reading	Cable	Attenator	Antenna	N	EIRP	Distance	Ground	Е	Limit	Margin	Remark
		Loss	Loss	Gain	(Number			bounce	(field strength)			
[kHz]	[dBm]	[dB]	[dB]	[dBi]	of Output)	[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
10.06	-101.1	1.51	9.8	2.0	1	-87.7	300	6.0	-26.5	47.5	74.0	
200.00	-92.1	1.51	9.8	2.0	1	-78.7	300	6.0	-17.5	21.5	39.0	

 $E = EIRP - 20 \log (D) + Ground bounce + 104.8 [dBuV/m]$

EIRP = Reading + Cable Loss + Attenator Loss + Antenna Gain + 10 * log (N)

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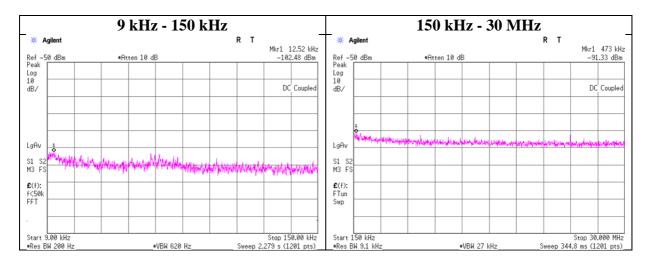
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Conducted Spurious Emission

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya

Mode Tx BT LE 2480 MHz



Frequen	y Reading	Cable	Attenator	Antenna	N	EIRP	Distance	Ground	Е	Limit	Margin	Remark
		Loss	Loss	Gain	(Number			bounce	(field strength)			
[kHz]	[dBm]	[dB]	[dB]	[dBi]	of Output)	[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
12.	-102.5	1.51	9.8	2.0	1	-89.2	300	6.0	-27.9	45.6	73.5	
473.	91.3	1.51	9.9	2.0	1	-77.9	300	6.0	-16.7	14.1	30.8	

 $E = EIRP - 20 \log (D) + Ground bounce + 104.8 [dBuV/m]$

EIRP = Reading + Cable Loss + Attenator Loss + Antenna Gain + 10 * log (N)

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Power Density

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya
Mode Tx BT LE

BT LE

Freq.	Reading	Cable	Atten.	Result	Limit	Margin
		Loss	Loss			
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]
2402.00	-28.72	2.44	10.06	-16.22	8.00	24.22
2440.00	-32.11	2.45	10.06	-19.60	8.00	27.60
2480.00	-33.67	2.45	10.06	-21.16	8.00	29.16

Sample Calculation:

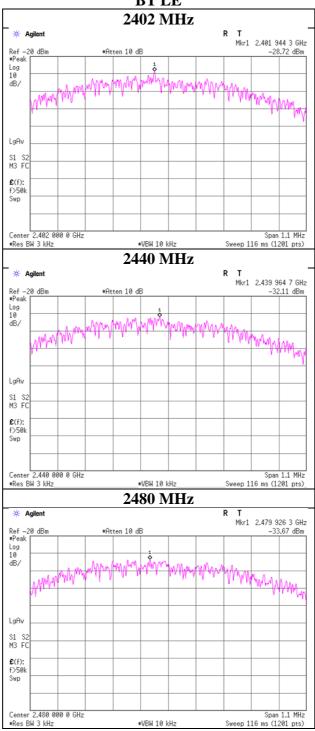
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

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Power Density

BT LE



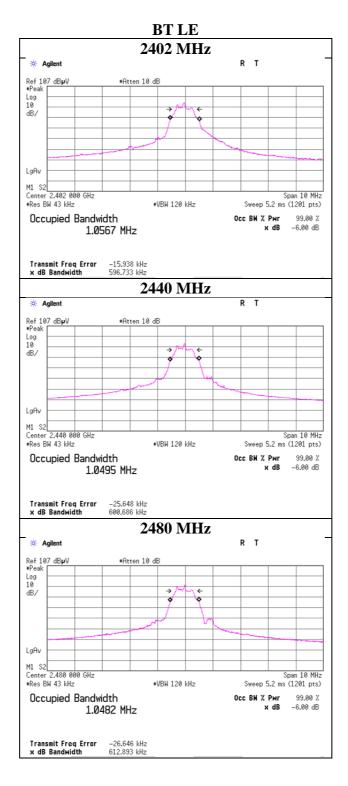
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99%Occupied Bandwidth

Test place Ise EMC Lab. No.11 Measurement Room

Report No. 11023664H
Date June 9, 2016
Temperature / Humidity 24 deg. C / 63 % RH
Engineer Yuta Moriya
Mode Tx BT LE



UL Japan, Inc. Ise EMC Lab.

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APPENDIX 2: Test instruments

Test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MPM-08	Power Meter	Anritsu	ML2495A	6K00003338	AT	2015/10/08 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	011737	AT	2015/10/08 * 12
MSA-14	Spectrum Analyzer	Agilent	E4440A	MY48250080	AT	2015/10/07 * 12
MCC-144	Microwave Cable	Junkosha	MWX221	1207S407	AT	2015/08/06 * 12
MAT-58	Attenuator(10dB)	Suhner	6810.19.A	-	AT	2016/01/18 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	BL1173	AT	2015/11/10 * 12
MCC-64	Coaxial Cable	UL Japan	-	-	AT	2016/03/10 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2015/12/08 * 12
MMM-17	DIGIITAL HITESTER	Hioki	3805	070900530	AT	2016/01/13 * 12
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2015/10/01 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	1301	RE	2016/01/21 * 12
MJM-16	Measure	KOMELON	KMC-36	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE	2015/11/06 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE	2015/09/02 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2015/10/11 * 12
MLA-22	Logperiodic Antenna(200-1000MHz)	Schwarzbeck	VUSLP9111B	911B-191	RE	2016/01/30 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2015/07/13 * 12
MAT-70	Attenuator(6dB)	Agilent	8491A-006	MY52460153	RE	2016/04/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2016/03/24 * 12
MMM-08	DIGITAL HITESTER	Hioki	3805	051201197	RE	2016/01/13 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2016/05/29 * 12
MCC-167	Microwave Cable	Junkosha	MWX221	1404S374(1m)/	RE	2016/05/20 * 12
				1405S074(5m)		
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2016/03/24 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	RE	2016/05/29 * 12
MHF-06	High Pass Filter 3.5-24GHz	TOKIMEC	TF323DCA	601	RE	2016/05/16 * 12
MHF-25	High Pass Filter 3.5-18.0GHz	UL Japan	HPF SELECTOR	001	RE	2015/09/16 * 12

The expiration date of the calibration is the end of the expired month.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item: RE: Radiated Emission test

AT: Antenna Terminal Conducted test

UL Japan, Inc. Ise EMC Lab.

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