

TEST REPORT

STANDARD: FCC Part15C RSS-210 Issue 9

Applicant	Testing Laboratory		
AIPHONE Co., LTD	Intertek Japan K.K. Nagano Laboratory		
	URL: http://www.japan.intertek-etlsemko.com		
2-18, Jinno-cho, Atsuta-ku,			
Nagoya 456-8666, JAPAN	3226 Yokokawa, Tatsuno-machi, Kamiina-gun,		
Tel: +81 52 681 8721	Nagano 399-0511 Japan		
	Tel. +81 266 47 5311		

Equipment Type Entrance station (Integrated Type) **Trademark AIPHONE** Model(s) GT-DMB-LVN / GT-DMB-N Serial No. 0000169R(J725-2436) **Equipment Authorization** Certification **FCC ID** 2ALNEGTDMBN ISED CN and UPN 4361A-GTDMBN **Test Result** Complied **Report Number** 17010363JNA-003 **Original Issue Date** June 5, 2017 **Revised Issue Date** June 14, 2017

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Approved by	Tested by
Hideaki Kosemura [Technical Manager]	Yoshihide Mimura [Test Engineer]

Responsible Party of Test Item (Product)

Responsible Party :
Add. :
Tel. :
Fax. :
Contact Person :

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

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SECTION 1. GENERAL INFORMATION

Test Performed

EUT Received February 14, 2017	
Date of Test From February 14, 2017 to March 17, 2017	
Standard Applied FCC Part15C RSS-210 Issue 9	
Test methods	ANSI C63.10-2013
Deviation from Standard(s)	None

Qualifications of Testing Laboratory

Accreditation	Scope	Lab. Code	Remarks
VLAC	EMC Testing	VLAC-008-4	JAPAN
BSMI	EMC Testing	SL2-IN-E-6007	TAIWAN
Filing	·	•	
VCCI	EMC Testing	A-0128	JAPAN
FCC	EMC Testing	JP0010	USA
IC	EMC Testing	2042O-1	CANADA

Abbreviations

EUT	Equipment Under Test	DoC	Declaration of Conformity
AMN	Artificial Mains Network	ISN	Impedance Stabilization Network
LISN	Line Impedance Stabilization Network	Q-P	Quasi-peak
AMP	Amplifier	AVG	Average
ATT	Attenuator	PK	Peak
ANT	Antenna	Cal	Calibration
BBA	Broadband Antenna	N/A	Not applicable or Not available
DIP	Dipole Antenna	LCD	Liquid-Crystal Display
AE	Associated Equipment	HDMI	High-Definition Multimedia Interface
OBW	Occupied Bandwidth		

Revision Summary

Revised Date	Section	Description of Changes
June 14, 2017	3	3.4 Add Remarks
June 14, 2017	3	The Overview of EUT has been deleted.
June 14, 2017	7	The operation explanation has been added.
June 14, 2017	9	Page 14 Modification of the figures and tables
June 14, 2017	10	Add Measuring Instruments
June 14, 2017	ANNEX	Page 33, 34 Modification of the figures

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SECTION 2. SUMMARY OF TEST RESULTS

See Section9 for the detailed result.

Emission Tests

Standard Applied	FCC Part15C (15.207, 15.225, 15.209) RSS-210 Issue 9 (B.6)	
Test Item	Minimum margin	Remarks
Conducted disturbance at mains terminals	24.3 dB (0.1564 MHz) [Q-P]	
Radiated disturbance (IN band)	52.3 dB (13.5670 MHz)	
Radiated disturbance (OUT band)	13.1 dB (800.04 MHz)	

Standard Applied	FCC Part15C (15.225) RSS-210 Issue 9 (B.6)	
Test Item	Result	Remarks
Frequency Tolerance	PASS	

Standard Applied	FCC Part15C(15.215(c)) RSS-Gen Issue 4 (6.6)	
Test Item	Result	Remarks
20dB OBW 99%OBW	N/A	See Note

Note: None Limit (for reporting purposes only)

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SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following apparatus.

3.1 System Configuration

Symbol	Item	Model No.	Serial No.	Manufacturer	Remarks	
A 1	Entrance station (Integrated Type)	GT-DMB-LVN	0000169R(J725-2436)	AIPHONE Co., LTD	1	
Rated Po	Rated Power: 100V-240 V, 50-60 Hz, 1.2-0.65 A					
Supplied	Supplied Power : AC 120V, 60Hz					
Conditio	Condition of Equipment PreProduction					
Туре	Type Wall hanging type					
Suppres	Suppression Devices No Modifications by the laboratory were made to the device					

3.2 Port(s)/Connector(s)

Port Name	Connector Type	Connector Pin	Remarks
R1R2	-	2 pin	-
A1A2	-	2 pin	-
B1B2	-	2 pin	-

3.3 Highest Frequency Generated / Used

Operating Frequency	Operating mode	Remarks
266.66 MHz	Confirmation of NFC reader	CPU (SH 7269) Internal operating frequency

3.4 Variation of Model(s)

Model No.	Remarks
GT-DMB-LVN	Tested model
GT-DMB-N	Family model

Note:

Compared to GT-DMB-LVN, GT-DMB-N has no magnetic loop for hearing aid T-mode, and no hole on the panel where a third party key cylinder not electrically connected with the EUT is attached.

3.5 RFID module specification

Model No.	ARI3030I
Operating Frequency	13.56 MHz
Number of Channel	1 ch
Modulation Technology	ISO/IEC 14443 Type A / MIFARE ISO/IEC 14443 Type A / MIFARE: Manchester coding MIFARE Higher Baud Rate: BPSK ISO/IEC 14443 Type B / BPSK ISO/IEC 18092 FeliCa: Manchester coding
Transfer rate	MIFARE: 106 kbps FeliCa: 212 kbps / 424 kbps
TX Power	Max. 20dBm (less than100m W)

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SECTION 4. SUPPORT EQUIPMENT

The EUT was supported by the following equipment during the test.

Symbol	Item	Model No.	Serial No.	Manufacturer	FCC ID
В	Power supply	PS-2420	1536(J725-967)	AIPHONE Co., LTD	N/A
Supplied F	Power:				
В	AC120 V, 60 Hz				

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SECTION 5. USED CABLE(S)

The following cable(s) was used for the test.

No.	Name	Length (m)	Shield	Metal Connector	Ferrite Core
1	Signal cable	2.00	No	No	
2	AC power cable for PS2420	1.90	No	No	
3	FG cable	2.00	No	No	

Note:

^{1.} No ferrite core is attached to the outer cables.

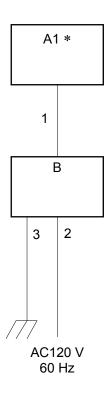
FCC ID: 2ALNEGTDMBN

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SECTION 6. TEST CONFIGURATION

6.1 Conducted disturbance at mains terminals Tests and Radiated disturbance tests

*: EUT



The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

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SECTION 7. OPERATING CONDITION

The test was carried out under the following mode. This operation mode is the worst.

7.1 Confirmation of NFC reader mode (Reader/Writer emulation and Card emulation)

Cycle time for operation: 500 ms

MIFARE: 106 kbps Modified Miller ASK 100% FeliCa: 212 kbps Manchester coding ASK 10% FeliCa: 424 kbps Manchester coding ASK 10%

The above-mentioned, movement consecutive in a period in about 500ms, with above 3 modulation, Polling (reader state) and Card emulation (tag state) while being irregular.

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SECTION 8. UNCERTAINTY

Traceability to national standard in SI units is ensured with these values.

Compliance with the limits in this standard are determined without in consideration of the measurement uncertainty of the measurement instrumentation.

8.1 Emission tests

Radiated disturbance at 3m	$U_{lab}[\mathit{k}=2]$	U _{cispr}				
30 MHz – 1000 MHz	+/- 4.28 dB	6.3 dB				
Above 1 GHz	+/- 4.80 dB	5.2 dB				
Radiated disturbance at 10m						
30 MHz – 1000 MHz	+/- 4.81 dB	6.3 dB				
Radiated disturbance at 30m						
	N/A	Nil				
Conducted disturbance at mains to	erminals					
9 kHz – 150 kHz	+/- 1.77 dB	3.8 dB				
150 kHz – 30 MHz	+/- 1.// UD	3.4 dB				
Conducted disturbance at telecommunication ports (ISN)						
150 kHz – 30 MHz	+/- 3.11 dB	5.0 dB				
Conducted disturbance at telecommunication ports (Capacitive Voltage Probe)						
150 kHz – 30 MHz	+/- 3.06 dB	3.9 dB				
Conducted disturbance at telecom	munication ports (Current Probe)					
150 kHz – 30 MHz	+/- 1.89 dB	2.9 dB				
Conducted disturbance at terminals						
150 kHz – 30 MHz	+/- 1.77 dB	2.9 dB				
Disturbance power						
30 MHz – 300 MHz	+/- 2.49 dB	4.5 dB				

The above expanded instrumentation uncertainty, U_{lab.}, is estimated in accordance with CISPR 16-4-2:2011.

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SECTION 9. EVALUATION OF TEST RESULTS

9.1 Emission tests

9.1.1 Conducted disturbance at mains terminals

Location	Nagano No.3 Test Site
Test Engineer	Yoshihide Mimura

Frequency Range of Measurements

Required Measurement Frequency Range	Measured Frequency Range	
0.15 – 30 MHz	0.15 – 30 MHz	

Test Procedure

Item	Document number
Conducted disturbance at mains terminals	LEN-RJP-TE003

Setting for the Measuring instruments

Instrument	Detector	Resolution Bandwidth	Video Bandwidth	
Receiver	Quasi Peak	10 kHz	N/A	
Receiver	Average	10 kHz	N/A	

< Measurement data correction >

Emission Level = Meter Reading + Factor

Margin = Limit- Emission Level

Factor = LISN Factor + Cable Loss + Attenuator

< Sample Calculations >

Sample @0.1564 MHz (Confirmation of NFC reader mode)

Emission Level = 31.2 [dBuV] + 10.1 [dB] = 41.3 [dBuV]

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ISED CN and UPN:4361A-GTDMBN

Result of Conducted disturbance at mains terminals

Intertek Japan K.K.

Nagano No.3 Test Site

AC Conducted Emission Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

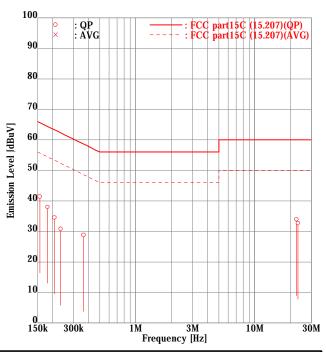
MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 15 2017

FILE NO. :

REGULATION : FCC part15C (15.207)
TEST METHOD : ANSI C63.10-2013
TEMPERATURE : 22.5 [degC]
HUMIDITY : 38.0 [%]

NOTE : AC Adapter: PS-240(1536J725-974)



ENGINEER : Yoshhide Mimura

FR [No]	EQUENCY M	NODE	READIN [dBuV]	_	FACTO	R	EMISSIC [dBuV	_	LIMIT [dBuV]	MAR([dB	_
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.1564	QP	31.2	31.2	10.1	10.2	41.3	41.4	65.7	24.4	24.3
2	0.1823	QP	27.8	27.8	10.1	10.2	37.9	38.0	64.4	26.5	26.4
3	0.2077	QP	24.1	24.3	10.1	10.2	34.2	34.5	63.3	29.1	28.8
4	0.2342	QP	20.3	20.6	10.1	10.2	30.4	30.8	62.3	31.9	31.5
5	0.3653	QP	18.5	<u>18.6</u>	10.2	10.2	28.7	<u>28.8</u>	58.6	29.9	29.8
6 7	22.4851 23.1589	QP QP	22.3 21.5	<u>23.1</u> 21.9	10.8 10.8	10.8 10.8	33.1 32.3	<u>33.9</u> 32.7	60.0 60.0	26.9 27.7	<u>26.1</u> 27.3

Higher six points are underlined.

Other frequencies : Below the FCC part15C (15.207) limit Emission Level = Read + Factor(LISN,Pad,Cable)

emiT 3, 0, 0, 0

FCC ID: 2ALNEGTDMBN

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9.1.2 Radiated disturbance (IN band and OUT band)

Location	Nagano No.3 Test Site
Test Engineer	Yoshihide Mimura

Frequency Range of Measurements

Operating mode	Required Frequency Range	Measured Frequency Range
Confirmation of NFC reader	0.0090 – 2000 MHz	0.0090 – 2000 MHz

Test Procedure

Item	Document number
Radiated disturbance	LEN-RJP-TE003

Setting for the Measuring instruments

Frequency [MHz]	Instrument	Detector	Resolution Bandwidth	Video Bandwidth
0.009 - 30	Receiver	AVG : 0.009 - 0.090 MHz QP : 0.090 - 0.110 MHz AVG : 0.110 - 0.490 MHz QP : 0.490 - 30 MHz	200 Hz : 0.009 - 0.15 MHz 10 kHz : 0.15 – 30 MHz	N/A
30 – 1000	Receiver	Quasi Peak	120 kHz	N/A
Above 1000	Receiver	Peak	1 MHz	N/A
Above 1000	Receivei	Average	1 MHz	N/A

< Measurement data correction >

Emission Level = Meter Reading + Factor

Margin = Limit - Emission Level

Factor = Antenna Factor + Cable Loss - Amplifier Gain + Attenuator (+ Distance Conversion Factor)*

Distance Conversion Factor = 20 log (Measurement distance / Standard distance)

< Sample Calculations >

Sample @94.92 MHz (Confirmation of NFC reader mode)

Emission Level = 32.0 [dBuV] - 13.4 [dB/m] = 18.6 [dBuV/m]

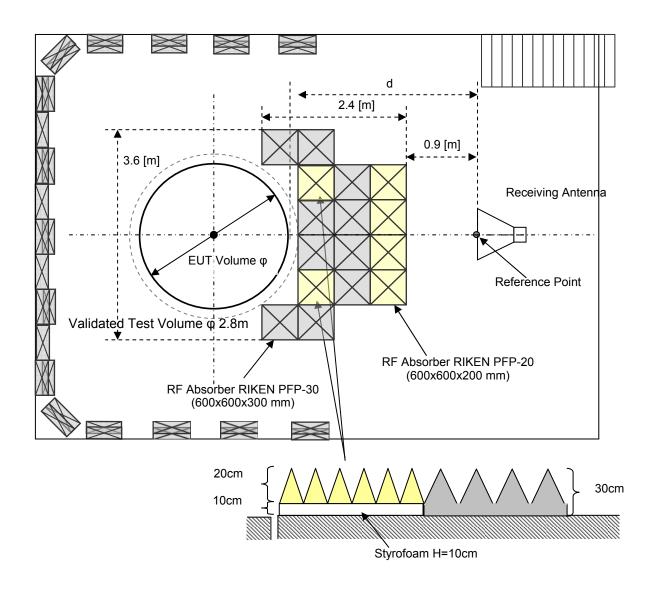
^{*} For other than Standard distance:

FCC ID: 2ALNEGTDMBN

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Operating Condition	EUT Axis	EUT Volume	Frequency Range	Measurement distance
	X, Y, Z	-	0.009 -1000 MHz	3.00 m
Confirmation of NFC reader mode	Х	1.04 m		3.88 m
Committation of NFC reader mode	Υ	1.04 m	Above 1 GHz	3.88 m
	Z	1.16 m		3.82 m

Absorber placement and Receive Antenna location in Radiated disturbance above 1 GHz



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Result of Radiated disturbances 9.1.2.1 IN band (X axis)

Intertek Japan K.K.

Nagano No.3 Test Site

Field Strength Emission Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

MODEL NO. : GT-DMB-LVN SERIAL NO. : 0000169R(J725-2436) : Confirmation of NFC reader **TEST MODE**

POWER SOURCE: AC120 V, 60 Hz DATE TESTED : Mar 17 2017

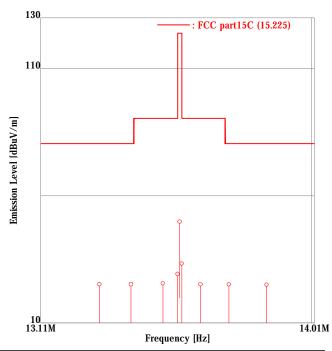
FILE NO.

REGULATION TEST METHOD

: FCC part15C (15.225) : ANSI C63.10 :2013

3.00 [m] DISTANCE **TEMPERATURE** : 31.4 [degC] : 37.0 [%] HUMIDITY NOTE

: X



ENGINEER Yoshihide Mimura

FR [No]	EQUENCY [MHz]	READING [dBuV]	i	FACTOR [dB]		EMISSION [dBuV/m]	[4	LIMIT dBuV/m]	MARG [dB]	
		Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	13.2990	24. <u>5</u>	24.2	0.7	0.7	<u>25.2</u>	24.9	80.5	55.3	55.6
2	13.4011	<u>24.5</u>	24.4	0.7	0.7	<u>25.2</u>	25.1	80.5	55.3	55.4
3	13.5047	24.8	24.5	0.7	0.7	25.5	25.2	90.5	65.0	65.3
4	13.5530	<u>28.5</u>	27.2	0.7	0.7	<u>29.2</u>	27.9	90.5	<u>61.3</u>	62.6
5	13.5600	49.1	46.6	0.7	0.7	49.8	47.3	124.0	74.2	76.7
6	13.5670	<u>32.6</u>	30.7	0.7	0.7	<u>33.3</u>	31.4	90.5	<u>57.2</u>	59.1
7	13.6290	24.3	24.4	0.7	0.7	25.0	25.1	90.5	65.5	65.4
8	13.7224	<u>24.4</u>	24.2	0.7	0.7	<u>25.1</u>	24.9	80.5	<u>55.4</u>	55.6
9	13.8491	<u>24.3</u>	24.2	0.7	0.7	<u>25.0</u>	24.9	80.5	<u>55.5</u>	55.6

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.225) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

emiT 3, 0, 0, 0

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9.1.2.2 IN band (Y axis)

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Nagano No.3 Test Site

Field Strength Emission Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

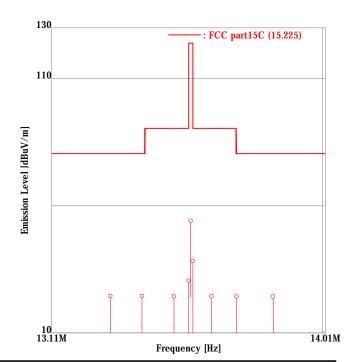
MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Mar 17 2017

FILE NO.

REGULATION : FCC part15C (15.225) TEST METHOD : ANSI C63.10 :2013

DISTANCE : 3.00 [m]
TEMPERATURE : 31.4 [degC]
HUMIDITY : 37.0 [%]
NOTE : Y



ENGINEER : Yoshihide Mimura

FR [No]	EQUENCY [MHz]	READING [dBuV] Hori	Vert	FACTOR [dB] Hori	Vert	EMISSION [dBuV/m] Hori	[c	LIMIT dBuV/m]	MARG [dB] Hori	
1	13.2990	23.6	23.8	0.7	0.7	24.3	<u>24.5</u>	80.5	56.2	<u>56.0</u>
2	13.4011	<u>23.8</u>	23.5	0.7	0.7	<u>24.5</u>	24.2	80.5	56.0	56.3
3	13.5047	23.6	23.6	0.7	0.7	24.3	24.3	90.5	66.2	66.2
4	13.5530	<u>29.8</u>	24.8	0.7	0.7	<u>30.5</u>	25.5	90.5	60.0	65.0
5	13.5600	53.4	42.8	0.7	0.7	54.1	43.5	124.0	69.9	80.5
6	13.5670	<u>37.5</u>	29.1	0.7	0.7	<u>38.2</u>	29.8	90.5	<u>52.3</u>	60.7
7	13.6290	23.7	23.4	0.7	0.7	24.4	24.1	90.5	66.1	66.4
8	13.7122	<u>23.6</u>	23.4	0.7	0.7	<u>24.3</u>	24.1	80.5	<u>56.2</u>	56.4
9	13.8334	23.6	23.4	0.7	0.7	24.3	24.1	80.5	56.2	56.4

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.225) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

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9.1.2.3 IN band (Z axis)

Intertek Japan K.K.

Nagano No.3 Test Site

Field Strength Emission Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

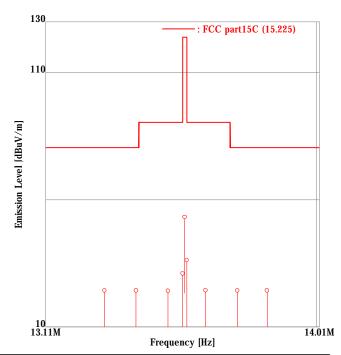
MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Mar 17 2017

FILE NO.

REGULATION : FCC part15C (15.225) TEST METHOD : ANSI C63.10 :2013

DISTANCE : 3.00 [m]
TEMPERATURE : 31.4 [degC]
HUMIDITY : 37.0 [%]
NOTE : Z



ENGINEER : Yoshihide Mimura

FR [No]	EQUENCY [MHz]	READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]	[0	LIMIT dBuV/m]	MARG [dB]	
' '		Hori	Vert	Hori	Vert	Hori	Vert	_	Hori	Vert
1	13.2990	<u>23.6</u>	23.6	0.7	0.7	<u>24.3</u>	24.3	80.5	<u>56.2</u>	56.2
2	13.4011	<u>23.6</u>	23.5	0.7	0.7	<u>24.3</u>	24.2	80.5	<u>56.2</u>	56.3
3	13.5047	23.5	23.5	0.7	0.7	24.2	24.2	90.5	66.3	66.3
4	13.5530	<u>30.3</u>	27.8	0.7	0.7	<u>31.0</u>	28.5	90.5	<u>59.5</u>	62.0
5	13.5600	52.5	49.2	0.7	0.7	53.2	49.9	124.0	70.8	74.1
6	13.5670	<u>35.5</u>	33.8	0.7	0.7	<u>36.2</u>	34.5	90.5	<u>54.3</u>	56.0
7	13.6290	23.7	23.6	0.7	0.7	24.4	24.3	90.5	66.1	66.2
8	13.7346	23.5	<u>23.6</u>	0.7	0.7	24.2	<u>24.3</u>	80.5	56.3	<u>56.2</u>
9	13.8334	<u>23.6</u>	23.5	0.7	0.7	<u>24.3</u>	24.2	80.5	<u>56.2</u>	56.3

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.225) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

FCC ID: 2ALNEGTDMBN

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9.1.2.4 Out band 0.009 – 30 MHz (X axis)

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Nagano No.3 Test Site

Spurious Emission - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

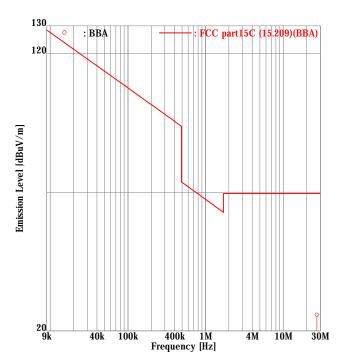
MODEL NO. : GT-DMB-LVN SERIAL NO. : 0000169R(J725-2436) TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 20 2017

FILE NO. :

REGULATION : FCC part15C (15.209) TEST METHOD : ANSI C63.10-2013

DISTANCE : 3.00 [m]
TEMPERATURE : 18.0 [degC]
HUMIDITY : 51.0 [%]
NOTE : X



ENGINEER : Yoshihide Mimura

[N	FRE	EQUENCY	READING	FACTOR	EMISSION	LIMIT	MARGIN
	lo]	[MHz]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
	1	27.1200	<u>24.2</u>	1.6	<u>25.8</u>	69.5	<u>43.7</u>

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emisson Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

30 - 1000 MHz

Intertek Japan K.K.

Nagano No.3 Test Site

Spurious Emissions - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

MODEL NO. : GT-DMB-LVN : 0000169R(J725-2436) SERIAL NO. **TEST MODE** : Confirmation of NFC reader

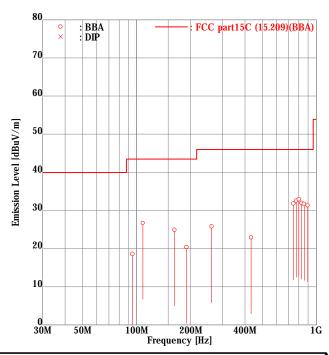
POWER SOURCE: AC120 V, 60 Hz DATE TESTED : Feb 22 2017

FILE NO.

REGULATION

: FCC part15C (15.209) : ANSI C63.10-:2013 TEST METHOD

3.00 [m] DISTANCE **TEMPERATURE** : 24.2 [degC] HUMIDITY : 16.0 [%] NOTE : X



ENGINEER Yoshihide Mimura

FR [No]	EQUENCY [MHz]	ANT.	READING [dBuV]	i	FACTOI [dB/m]	₹	EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARG [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	94.92	BBA		32.0	-13.4	-13.4		18.6	43.5		24.9
2	108.48	BBA	37.5	38.7	-12.0	-12.0	25.5	26.7	43.5	18.0	16.8
3	162.72	BBA	-	38.0	-13.1	-13.1	-	24.9	43.5	_	18.6
4	189.84	BBA	-	31.9	-11.5	-11.5	-	20.4	43.5	-	23.1
5	261.37	BBA	33.2	-	-7.4	-7.4	25.8	-	46.0	20.2	-
6	433.92	BBA	=	24.8	-1.9	-1.9	-	22.9	46.0	-	23.1
7	745.80	BBA	<u>26.8</u>	-	5.0	5.0	<u>31.8</u>	-	46.0	14.2	-
8	772.92	BBA	<u>26.8</u>	-	5.7	5.7	<u>32.5</u>	-	46.0	<u>13.5</u>	-
9	800.04	BBA	<u>26.6</u>	-	6.3	6.3	<u>32.9</u>	-	46.0	<u>13.1</u>	-
10	827.16	BBA	<u>25.3</u>	-	6.7	6.7	<u>32.0</u>	-	46.0	14.0	-
11	854.28	BBA	<u>24.7</u>	_	7.0	7.0	<u>31.7</u>	-	46.0	<u>14.3</u>	-
12	894.96	BBA	<u>23.6</u>	-	7.7	7.7	<u>31.3</u>	-	46.0	<u>14.7</u>	-

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp) ANT.: Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

1000 - 2000 MHz

Intertek Japan K.K.

Nagano No.2 Test Site

Radiated Electric Field

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

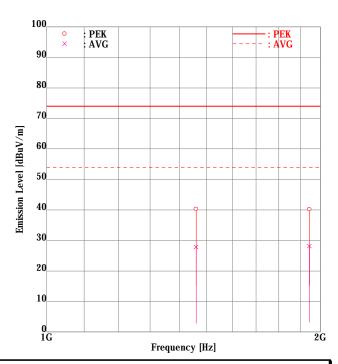
MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 16 2017

FILE NO. :

REGULATION : FCC part15C (15.209) TEST METHOD : ANSI C63.10-2013

DISTANCE : 3.88 [m]
TEMPERATURE : 17.5 [degC]
HUMIDITY : 24.0 [%]
NOTE : X



ENGINEER : Yoshihide Mimura

	FF [No]	REQUENCY [MHz]	MODE	READ [dBu Hori	-	FACT [dB Hori	-	EMIS: [dBu' Hori		LIMIT [dBuV/m]	MAR([dB Hori	-
				ПОП	vert	ПОП	vert	ПОП	vert		ПОП	vert
-		4.400.00	DEK	40.7	40.0			40.0		740		
	1	1460.06	PEK	<u>40.7</u>	40.3	-0.4	-0.4	<u>40.3</u>	39.9	74.0	<u>33.7</u>	34.1
	2	1460.06	AVG	28.1	<u>28.2</u>	-0.4	-0.4	27.7	<u>27.8</u>	54.0	26.3	<u> 26.2</u>
	3	1945.38	PEK	=	<u>40.1</u>	0.1	0.1	-	<u>40.2</u>	74.0	-	<u>33.8</u>
	4	1945.38	AVG	-	<u>28.0</u>	0.1	0.1	-	<u>28.1</u>	54.0	-	<u>25.9</u>

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level=Read+Fact.

Fact.=Ant. Fact.+Cable Loss-Amp. Gain+ATT+Dist. Conversion

emiT 3, 0, 0, 0

FCC ID: 2ALNEGTDMBN

ISED CN and UPN: 4361A-GTDMBN

9.1.2.5 Out band 0.009 – 30 MHz (Y axis)

Intertek Japan K.K.

Nagano No.3 Test Site

Spurious Emission - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

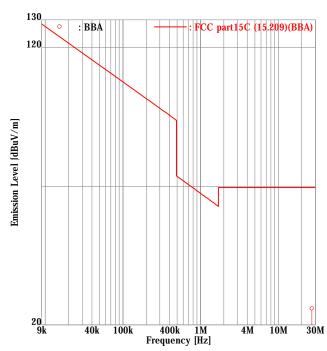
MODEL NO. : GT-DMB-LVN SERIAL NO. : 0000169R(J725-2436) TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 20 2017

FILE NO.

REGULATION : FCC part15C (15.209) TEST METHOD : ANSI C63.10-2013

DISTANCE : 3.00 [m]
TEMPERATURE : 18.0 [degC]
HUMIDITY : 51.0 [%]
NOTE : Y



ENGINEER : Yoshihide Mimura

FR	EQUENCY	READING	FACTOR	EMISSION	LIMIT	MARGIN
[No]	[MHz]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	27.1200	<u>24.3</u>	1.6	<u>25.9</u>	69.5	

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emisson Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

30 - 1000 MHz

Intertek Japan K.K.

Nagano No.3 Test Site

Spurious Emissions - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 22 2017

FILE NO.

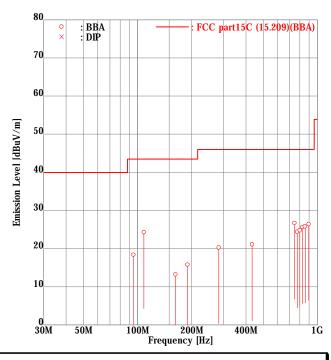
: -

REGULATION TEST METHOD

: FCC part15C (15.209) : ANSI C63.10-:2013

DISTANCE : 3.00 [m]
TEMPERATURE : 24.2 [degC]
HUMIDITY : 16.0 [%]

NOTE : Y



ENGINEER : Yoshihide Mimura

FF [No]	REQUENCY [MHz]	ANT.	READING [dBuV] Hori	G Vert	FACTO [dB/m] Hori		EMISSION [dBuV/m] Hori		LIMIT [dBuV/m]	MARG [dB] Hori	
1	94.92	BBA	-	31.8	-13.4	-13.4	=	18.4	43.5	-	25.1
2	108.48	BBA	25.4	<u>36.3</u>	-12.0	-12.0	13.4	24.3	43.5	30.1	<u>19.2</u>
3	162.72	BBA	-	26.3	-13.1	-13.1	-	13.2	43.5	-	30.3
4	189.84	BBA	-	27.3	-11.5	-11.5	-	15.8	43.5	-	27.7
5	283.24	BBA	26.9	-	-6.6	-6.6	20.3	-	46.0	25.7	-
6	433.92	BBA	-	23.0	-1.9	-1.9	-	21.1	46.0	-	24.9
7	745.80	BBA	<u>21.7</u>	21.5	5.0	5.0	<u>26.7</u>	26.5	46.0	<u>19.3</u>	19.5
8	772.92	BBA	18.7	-	5.7	5.7	24.4	-	46.0	21.6	-
9	800.04	BBA	<u>18.5</u>	-	6.3	6.3	<u>24.8</u>	-	46.0	<u>21.2</u>	-
10	827.16	BBA	18.9	-	6.7	6.7	<u>25.6</u>	-	46.0	20.4	-
11	854.28	BBA	<u>18.8</u>	-	7.0	7.0	<u>25.8</u>	-	46.0	20.2	-
12	894.96	BBA	<u>18.7</u>	-	7.7	7.7	<u>26.4</u>	-	46.0	<u>19.6</u>	-

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp) ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

emiT 3, 0, 0, 0

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

1000 - 2000 MHz

Intertek Japan K.K.

Nagano No.2 Test Site

Radiated Electric Field

: AIPHONE Co., LTD **APPLICANT**

EUT NAME : Entrance station (Integrated Type)

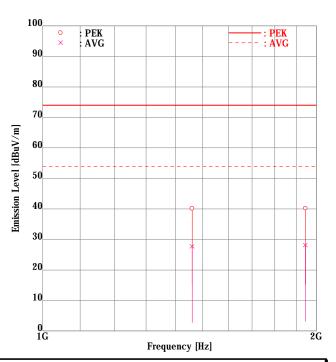
MODEL NO. : GT-DMB-LVN SERIAL NO. : 0000169R(J725-2436) TEST MODE : Confirmation of NFC reader

POWER SOURCE: AC120 V, 60 Hz DATE TESTED : Feb 16 2017

FILE NO.

REGULATION : FCC part15C (15.209) : ANSI C63.10-2013 TEST METHOD

3.88 [m] DISTANCE **TEMPERATURE** : 17.5 [degC] HUMIDITY : 24.0 [%] NOTE



ENGINEER Yoshihide Mimura

FREQUENCY MODE [No] [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARG [dB]	
		Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1460.02 PEK	40. <u>5</u>	40.3	-0.4	-0.4	<u>40.1</u>	39.9	74.0	33.9	34.1
2	1460.02 AVG	28.0	<u>28.1</u>	-0.4	-0.4	27.6	<u> 27.7</u>	54.0	26.4	<u> 26.3</u>
3	1945.37 PEK	-	<u>40.1</u>	0.1	0.1	-	<u>40.2</u>	74.0	-	<u>33.8</u>
4	1945.37 AVG	=	<u>28.0</u>	0.1	0.1	=	<u>28.1</u>	54.0	-	<u>25.9</u>

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level=Read+Fact.

Fact.=Ant. Fact.+Cable Loss-Amp. Gain+ATT+Dist. Conversion

emiT 3, 0, 0, 0

FCC ID: 2ALNEGTDMBN

ISED CN and UPN: 4361A-GTDMBN

9.1.2.6 Out band 0.009 – 30 MHz (Z axis)

Intertek Japan K.K.

Nagano No.3 Test Site

Spurious Emission - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

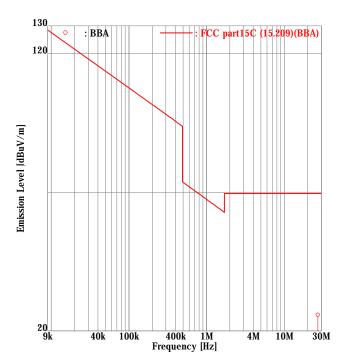
MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 20 2017

FILE NO.

REGULATION : FCC part15C (15.209) TEST METHOD : ANSI C63.10-2013

DISTANCE : 3.00 [m]
TEMPERATURE : 18.0 [degC]
HUMIDITY : 51.0 [%]
NOTE : Z



ENGINEER : Yoshihide Mimura

[/	FRI	EQUENCY	READING	FACTOR	EMISSION	LIMIT	MARGIN
	No]	[MHz]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
	1	27.1200	<u>24.2</u>	1.6	<u>25.8</u>	69.5	<u>43.7</u>

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emisson Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

30 - 1000 MHz

Intertek Japan K.K.

Nagano No.3 Test Site

Spurious Emissions - Radiated Test

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

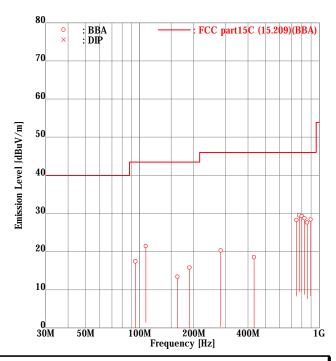
POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 22 2017

FILE NO. :

: -ON : ECC part

REGULATION : FCC part15C (15.209) TEST METHOD : ANSI C63.10-:2013

DISTANCE : 3.00 [m]
TEMPERATURE : 24.2 [degC]
HUMIDITY : 16.0 [%]
NOTE : Z



ENGINEER : Yoshihide Mimura

FR [No]	EQUENCY [MHz]	ANT.	READIN([dBuV]	3	FACTO [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARG [dB]	
[. 10]	[]		Hori	Vert	Hori	Vert	Hori	Vert	[4247]	Hori	Vert
1	94.92	BBA		30.8	-13.4	-13.4	-	17.4	43.5	-	26.1
2	108.48	BBA	27.8	33.4	-12.0	-12.0	15.8	21.4	43.5	27.7	22.1
3	162.72	BBA	-	26.5	-13.1	-13.1	=	13.4	43.5	-	30.1
4	189.84	BBA	-	27.3	-11.5	-11.5	=	15.8	43.5	-	27.7
5	283.24	BBA	26.9	-	-6.6	-6.6	20.3	-	46.0	25.7	-
6	433.92	BBA	-	20.4	-1.9	-1.9	-	18.5	46.0	-	27.5
7	745.80	BBA	21.7	23.3	5.0	5.0	26.7	<u>28.3</u>	46.0	19.3	<u>17.7</u>
8	772.92	BBA	<u>23.8</u>	-	5.7	5.7	<u>29.5</u>	-	46.0	<u>16.5</u>	-
9	800.04	BBA	<u>23.0</u>	-	6.3	6.3	<u>29.3</u>	-	46.0	<u>16.7</u>	-
10	827.16	BBA	<u>22.0</u>	-	6.7	6.7	<u>28.7</u>	-	46.0	<u>17.3</u>	-
11	854.28	BBA	20.6	-	7.0	7.0	<u>27.6</u>	-	46.0	<u>18.4</u>	-
12	894.96	BBA	<u>20.7</u>	=	7.7	7.7	<u>28.4</u>	-	46.0	<u>17.6</u>	-

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp)
ANT.: Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

emiT 3, 0, 0, 0

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FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

1000 - 2000 MHz

Intertek Japan K.K.

Nagano No.2 Test Site

Radiated Electric Field

APPLICANT : AIPHONE Co., LTD

EUT NAME : Entrance station (Integrated Type)

MODEL NO. : GT-DMB-LVN
SERIAL NO. : 0000169R(J725-2436)
TEST MODE : Confirmation of NFC reader

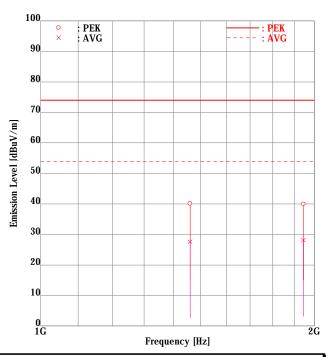
POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Feb 16 2017

FILE NO. :

REGULATION : FCC part15C (15.209)
TEST METHOD : ANSI C63.10-2013

DISTANCE : 3.82 [m]
TEMPERATURE : 17.5 [degC]
HUMIDITY : 24.0 [%]

NOTE : Z



ENGINEER : Yoshihide Mimura

FREQUENCY MODE [No] [MHz]	READING [dBuV] Hori Vert	FACTOR [dB] Hori Vert	EMISSION [dBuV/m] Hori Vert	LIMIT MARGIN [dBuV/m] [dB] Hori Vert
1 1460.06 PEK	40.6 40.4	-0.5 -0.5	40.1 39.9	74.0 <u>33.9</u> 34.1
2 1460.06 AVG	28.1 28.0	-0.5 -0.5	27.6 27.5	54.0 <u>26.4</u> 26.5
3 1945.33 PEK	- 40.0	-0.0 -0.0	- 40.0	74.0 - <u>34.0</u>
4 1945.33 AVG	- 28.1	-0.0 -0.0	- 28.1	54.0 - 25.9

Higher six points are underlined.

Other frequencies: Below the FCC part15C (15.209) limit

Emission Level=Read+Fact.

Fact.=Ant. Fact.+Cable Loss-Amp. Gain+ATT+Dist. Conversion

emiT 3, 0, 0, 0

FCC ID: 2ALNEGTDMBN

ISED CN and UPN: 4361A-GTDMBN

9.2 Frequency Tolerance (Temperature Variation and Voltage Variation)

Location	Kashima No.1
Test date	March 9, 2017
Test Engineer	Yoshihide Mimura
Test Procedure	LEN-RJP-TE003

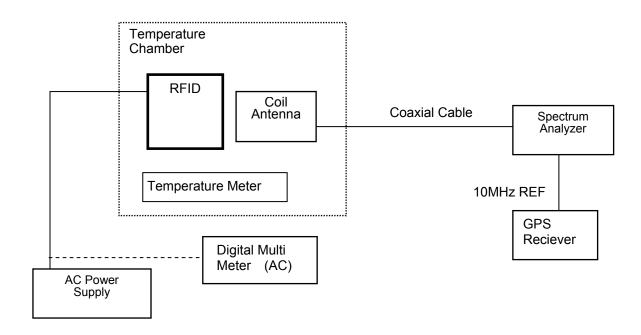
Test Procedure

Frequency Tolerance (Temperature Variation)

- 1. The EUT and test equipment were set up as shown on the following page.
- 2. Set the temperature -30 degrees C.
- 3. Leave the EUT for 1 hour after it became the temperature that was set up.
- 4. Make the EUT the transmitting.
- 5. Measure the output frequency. (Startup, 2min, 5min and 10min)
- 6. Set the temperature -20 degrees C to +50 degrees C.
- 7. Repeat test procedure 4 to 6

Frequency Tolerance (Voltage Variation)

- 1. The EUT and test equipment (Set the Supply Voltage 100%) were set up as shown on the following page.
- 2. Set the temperature +20 degrees C.
- 3. Leave the EUT for 1 hour after it became the temperature that was set up.
- 4. Make the EUT the transmitting.
- 5. Measure the output frequency.
- 6. Set the Supply Voltage 85% and 115%.
- 7. Repeat test procedure 4 to 6



FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

Result of Frequency Tolerance (Temperature Variation and Voltage Variation) 9.2.1 Temperature Variation

Reference Frequency: 13.560000 MHz (FCC Stability) /13.560120 MHz (RSS Stability)

recipied i requeriey. 10.000000 Williz (1.00 otability) / 10.000120 Williz (1.00 otability)								
MHz	Temperature (Degree C)	Voltage (%)	Frequency (MHz)	Devia (pp	Limit (+/-)			
	(Degree o)	(70)	(1411 12)	FCC	RSS	(ppm)		
	-30	100	13.560115	8.48	-0.37	100.0		
	-20	100	13.560116	8.55	-0.29	100.0		
	-10	100	13.560120	8.85	0.00	100.0		
	0	100	13.560120	8.85	0.00	100.0		
13.56	10	100	13.560121	8.92	0.07	100.0		
	20	100	13.560120	8.85	0.00	100.0		
	30	100	13.560112	8.26	-0.59	100.0		
	40	100	13.560110	8.11	-0.74	100.0		
	50	100	13.560113	8.33	-0.52	100.0		

9.2.2 Voltage Variation

Reference Frequency: 13.560000 MHz (FCC Stability) /13.560120 MHz (RSS Stability)

MHz	Temperature (Degree C)	Voltage (%)	Frequency (MHz)	Deviation (ppm)		Supply Voltage		Limit (+/-)
	(Degree C)	(70)	(1711 12)	FCC	RSS			(ppm)
		85	13.560120	8.85	0.00	102V	60Hz	100.0
13.56	20	100	13.560120	8.85	0.00	120V	60Hz	100.0
		115	13.560120	8.85	0.00	138V	60Hz	100.0

FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

9.3 20dB OBW, 99% OBW

Location Nagano No.3 Test Site		
Test date	March 17, 2016	
Test Engineer	Yoshihide Mimura	
Test Procedure	LEN-RJP-TE003	

Test Procedure

1 The EUT and test equipment were set up as shown on the following page.

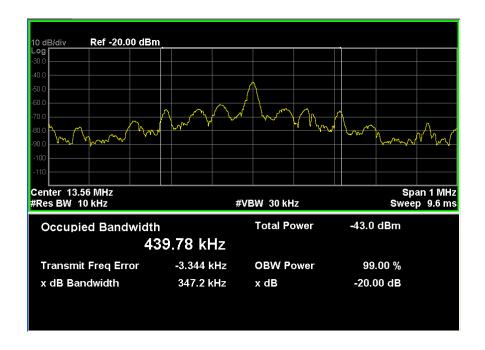
2 Adjust the test instrument for the following setting:

RBW : 1 % to 5 % of the Necessary bandwidth

VBW : at least 3 times the RBW

Detector : Peak
Sweep Time : Auto
Trace mode : Max Hold
3 Allow trace to fully stabilize.

4 Use "Occupied Bandwidth Measurement" function to measure the Occupied Bandwidth.



FCC ID: 2ALNEGTDMBN

ISED CN and UPN:4361A-GTDMBN

SECTION 10. LIST OF MEASURING INSTRUMENTS

Test instruments are calibrated according to Quality Manual and Calibration Rules of Intertek Japan K.K. All measurements equipment used for the measurement is calibrated based on standard.

Each measurement result is traceable to national or international standards.

Antenna used for the measurement is calibrated based on the ANSI C63.5.

Instrument	Model No.	Serial No.	Manufacturer	Cal. Interval	Effective period
Conducted disturba	ince at mains terminals	<u> </u>	-	<u> </u>	<u> </u>
LISN (EUT)	ESH2-Z5	892377/022	ROHDE & SCHWARZ	1 Y	May 31, 17
10 dB Attenuator	CFA-01	CEC052	TAMAGAWA		Iviay 51, 17
Coaxial cable	5D-2W(5.5 m)	N3C-1	Intertek		
Coaxial cable	5D-2W(1.6 m)	N3C-2	Intertek		
Coaxial cable	5D-2W(0.7 m)	N3C-3	Intertek	1 Y	Jan. 31,18
Coaxial cable	5D-2W(1.6 m)	N3C-4	Intertek		
RF Switch	ACX-150-1	CE3010	Intertek		
Test receiver	ESS (Firmware Version 1.21)	842886/011	ROHDE & SCHWARZ	1 Y	Feb. 28, 18
Radiated disturband	ce (30 MHz-1000 MHz)				1
Loop Antenna	HFH2-Z2	892665/009	ROHDE & SCHWARZ	1 Y	Oct. 31, 18
Coaxial cable	3D-2V(15m)	CL1	Intertek	1 Y	Sep. 30, 17
Broad Band antenna	LPB-2513/A	1092	A.R.A.	1 Y	Jun. 30, 17
6 dB Attenuator	8491A	36306	HEWLETT PACKARD		
Step Attenuator	8494B	2812A15596	HEWLETT PACKARD		
Amplifier	8447D	2727A05731	HEWLETT PACKARD		
Coaxial cable	5D-SFA(9.8 m)	N3R-1	Intertek		
Coaxial cable	12D-SFA(8.0 m)	N3R-2	Intertek		
Coaxial cable	5D-2W(1.6 m)	N3R-3	Intertek	1 Y	Jan. 31, 18
Coaxial cable	5D-2W(0.4 m)	N3R-4	Intertek		
Coaxial cable	5D-2W(0.4 m)	N3R-5	Intertek		
Coaxial cable	5D-2W(0.7 m)	N3R-6	Intertek		
Coaxial cable	5D-2W(1.6 m)	N3R-7	Intertek		
RF Switch	ACX-150-1	CE3010	Intertek		
Test receiver	ESS (Firmware Version 1.21)	842886/011	ROHDE & SCHWARZ	1 Y	Feb. 28, 18
Site Attenuation	-	-	-	1 Y	Apr. 30, 17

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Instrument	Model No.	Serial No.	Manufacturer	Cal. Interval	Effective period
Radiated disturbance	(Above 1 GHz)			-	
Double Ridged antenna	BBHA9120D	278	Schwarzbeck	1 Y	May, 2017
6 dB Attenuator	SFA-01A 6 dB	CEC039	TAMAGAWA	1 Y	Jun, 2017
Amplifier (1-18 GHz)	EAU-3018GXA	10315	ELENA	1 Y	Jun, 2017
Coaxial cable	SUCOFLEX 100 (0.2 m)	G2 (1513/2EA) CEC023	SUHNER	1 Y	Jun, 2017
Coaxial cable	S04272B (8.0m)	G5 (11SMA/8m)	SUHNER	1 Y	Aug, 2017
EMC Analyzer	E7403A (Firmware Rev.: A.11.00)	MY42000068	Agilent	1 Y	Jun, 2017
SVSWR	-	-	-	1 Y	Aug, 2017
Frequency Tolerance	and OBW				-
Spectrum Analyzer	N9030A	US51350220	Agilent	1 Y	Feb. 28, 18
Spectrum Analyzer	E7401	US39440254	Agilent	1 Y	Nov. 30, 17
Digital Multi Meter	34401A	US36043517	Hewlett Packard	1 Y	Jan. 31, 18
Temperature Chamber	PL-3F	5103661	Tabai	-	None
Temperature Meter	PC-5000TRH-II	A11999972	Sato	1 Y	Feb. 28, 18
Coil antenna	None	None	Intertek Japan	-	None
GPS Receiver	HP Z3801A	3542A02414	Hewlett Packard	-	None
Coaxial Cable	3D-2V	KSR00100	Daiyu Densen	1 Y	Jan. 31, 18

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ANNEX

FCC ID: 2ALNEGTDMBN

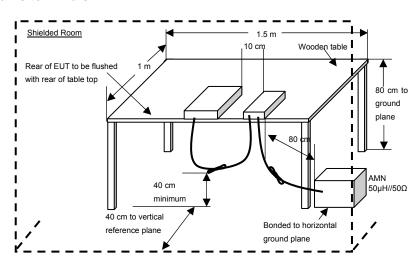
ISED CN and UPN: 4361A-GTDMBN

A. TEST PROCEDURE(S)

Test was carried out under the following conditions.

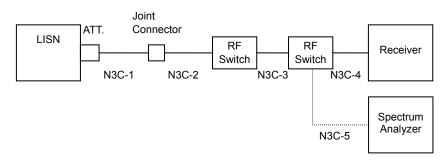
Conducted disturbance at mains terminals

Test setup as per standard



* Reference Ground plane: greater than 2 x 2m

Diagram of the measuring instruments



Setting for the instruments

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth
0.15 – 30	Receiver	Quasi Peak	10 kHz	N/A
0.15 - 30	Receivei	Average	10 kHz	N/A

[Preliminary Measurement]

EUT is tested on all operating conditions.

The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart is plotted out to find the worst emission conditions in operating mode and/or configuration decision for the final test.

All leads other than safety ground are tested.

[Final Measurement]

The EUT is operated in the worst emission condition found by the preliminary test.

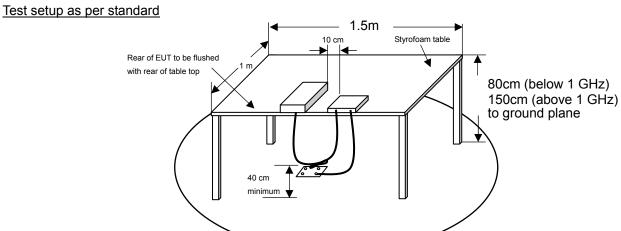
The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.

At least six highest spectrum are measured in quasi-peak and average (if necessary) using the test receiver.

FCC ID: 2ALNEGTDMBN

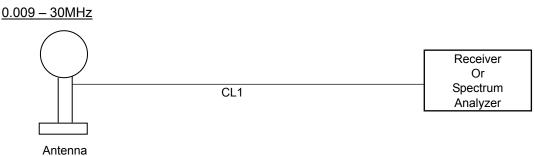
ISED CN and UPN:4361A-GTDMBN

Radiated disturbance

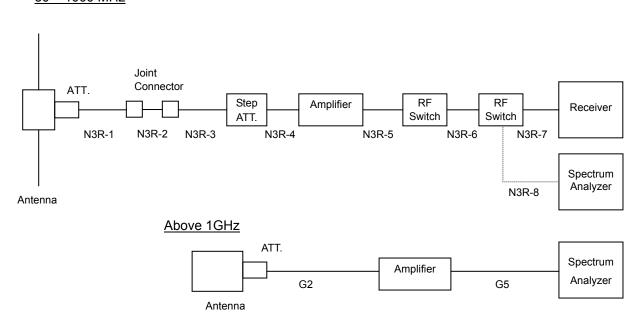


Turntable

Diagram of the measuring instruments



30 - 1000 MHz



Test was carried out under the following conditions.