



## KES Co., Ltd.

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www.kes.co.kr

Report No.:  
KES-EM-21T0486  
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# EMC TEST REPORT

Test Report No. : KES-EM-21T0486  
Date of Issue : Jun. 23, 2021  
Product name : MATIV Band  
Model/Type No. : OB-S06UB1  
Variant Mode : OB-S06SB1  
Applicant : Omolle Inc.  
Applicant Address : Rm. 1406, 40, Cheonggyecheon-ro, Jung-gu, Seoul,  
Republic of Korea  
Manufacturer : Omolle Inc.  
Manufacturer Address : Rm. 1406, 40, Cheonggyecheon-ro, Jung-gu, Seoul,  
Republic of Korea  
FCC ID : 2A2AUOB-S06UB1  
Date of Receipt : May. 28, 2021  
Test date : Jun. 06, 2021 ~ Jun. 07, 2021  
Test Results :  **In Compliance**  **Not in Compliance**

*Tested by*

Dae Hyun, Kim  
EMC Test Engineer

*Reviewed by*

Dong Hun, Jang  
EMC Technical Manager

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## REPORT REVISION HISTORY

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## 1.0 General Product Description

### Main Specifications of EUT are:

Item	Spec
Operating Frequency	2.4 GHz (Bluetooth)
Power	Charge : DC 5 V (USB) Operating : DC 3.7 V (Battery) , 200 mAh
Size	( 60 x 30 x 14 ) mm
Weight	34 g

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### 1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

AC 120 V, 60 Hz

### 1.2 Variant Model Differences

There is no difference in circuitry between the basic model and the multi-model.  
The only difference of the sixth letter is supply method.

### 1.3 Device Modifications

Not applicable

### 1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
MATIV Band	OB-S06UB1	-	Omolle Inc.	EUT
Adapter	GS-0523	-	Shenzhen GOOD-SHE Technology Co., Ltd.	

### 1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Phone	SM-A720S	-	Samsung Electronics Co., Ltd.	-

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## 1.6 External I/O Cabling

### ■ Charge Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
MATIV Band (EUT)	USB C Type	Adapter	USB	1.5	U

\* Unshielded = U, Shielded = S

### ■ Operating Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
MATIV Band (EUT)	Wireless	Phone	Wireless	-	-

\* Unshielded = U, Shielded = S

## 1.7 EUT Operating Mode(s)

Test mode	operating
Charge	Tested while checking the normal state of charge.
Operating	Tested while checking the normal operation status on the Phone application.

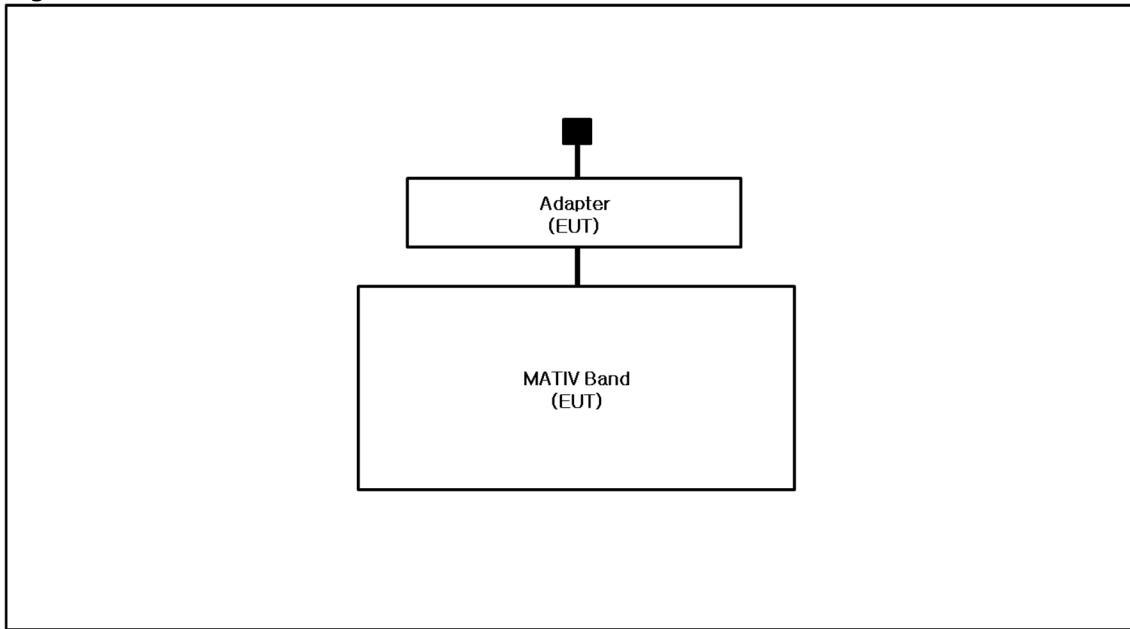
EUT Test operating S/W		
Name	Version	Manufacture Company
BLE DevTool	1.0	-

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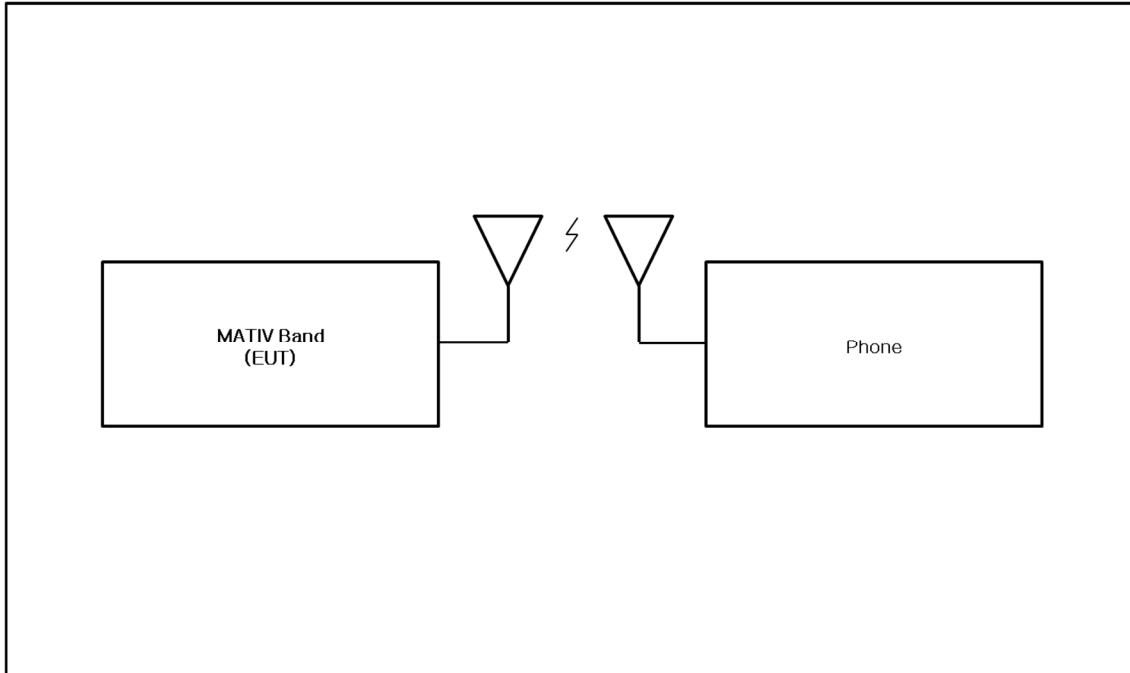
## 1.8 Configuration

- AC Main
- DC Main

### ■ Charge Mode



### ■ Operating Mode





## 1.9 Remarks when standards applied

N/A

## 1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

## 1.11 Test Facility

The measurement facility is located at 473-21 Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4:2014 and CISPR 16-1-4:2019

## 1.12 Measurement Procedure

### - Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

### - Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



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### 1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	<b>RRA</b>	EMI (3 m & 10 m Semi-Aechoic Chamber ,10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	<b>KOLAS</b>	EMI (3 m & 10 m Semi-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	<b>FCC</b>	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	<b>ISED</b>	3 m & 10 m Semi-Aechoic Chamber and Conducted test site	 23298-1
JAPAN	<b>VCCI</b>	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	 R-20056, C-20036 T-20040, G-20057
Europe	<b>TÜV SÜD</b>	EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004

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## 2.0 Test Regulations

The emissions tests were performed according to following regulations:

**EMC – Directive 2014/30/EU**

- EN 61000-6-3:2011
- EN 61000-6-1:2007
- EN 61000-6-4:2007 +A1:2011
- EN 61000-6-2:2005
- EN 55011:2007 +A1:2010
- EN 55014-1:2006 +A2:2011
- EN 55014-2:1997 +A2:2008
- EN 55015:2013
- EN 55032:2015
- EN 55024:2010
- EN 50130-4:2011 +A1:2014
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61326-1:2013

Group 1  
 Class A

Group 2  
 Class B



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<input type="checkbox"/> <b>VCCI V-3 / 2015.04</b>	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<input type="checkbox"/> <b>AS/NZS:2013</b>	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<b><input checked="" type="checkbox"/> 47 CFR Part 15, Subpart B</b>		
<input type="checkbox"/> CISPR 22:2009 +A1:2010	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<input checked="" type="checkbox"/> ANSI C63.4-2014	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B
<b><input type="checkbox"/> IC Regulation ICES-003 : 2016</b>		
<input type="checkbox"/> CAN/CSA CISPR 22-10	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<input type="checkbox"/> ANSI C63.4-2014	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<b><input type="checkbox"/> RE- Directive 2014/53/EU</b>		
<input type="checkbox"/> EN 301 489-1 V1.9.2		
<input type="checkbox"/> Equipment for fixed use		
<input type="checkbox"/> Equipment for vehicular use		
<input type="checkbox"/> Equipment for portable use		
<input type="checkbox"/> EN 301 489-3 V1.6.1		
<input type="checkbox"/> EN 301 489-17 V2.2.1		
<input type="checkbox"/> EN 60945:2002		

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## 2.1 Conducted Emissions at Mains Power Ports

### Test Date

Jun. 06, 2021

### Test Location

Electro wave Shieldroom #6

### Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	01, 15, 2022	1 Year
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 29, 2021	1 Year
<input type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 29, 2021	1 Year
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 29, 2021	1 Year

### Test Conditions

Temperature:  $(24,4 \pm 0,2) ^\circ\text{C}$

Relative Humidity:  $(45,3 \pm 0,1) \% \text{ R.H.}$

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Results

The requirements are:

- PASS
- NOT PASS
- NOT APPLICABLE

### Remarks

See Appendix A for test data.

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## 2.2 Radiated Electric Field Emissions(Below 1 GHz)

**Test Date**

Jun. 06, 2021

**Test Location**

OPEN AREA TEST SITE #2       SEMI ANECHOIC CHAMBER #4

**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2022	1 Year
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2021	2 Year
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	1 Year
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 10, 2022	1 Year

**Test Conditions**

Temperature: (23,8 ± 0,4) °C

Relative Humidity: (46,8 ± 0,3) % R.H.

**Frequency Range of Measurement**

30 MHz to 1 GHz

**Instrument Settings**

IF Band Width: 120 kHz

**Test Results**

The requirements are:

PASS  
 NOT PASS  
 NOT APPLICABLE

**Remarks**

- See Appendix A for test data.  
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z.



## 2.3 Radiated Electric Field Emissions(Above 1 GHz)

**Test Date**

Jun. 07, 2021

**Test Location**

SEMI ANECHOIC CHAMBER #5

**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.120	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	04, 01, 2021	1 Year
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 14, 2021	1 Year
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	8008A01640	04, 05, 2022	1 Year

**Test Conditions**

Temperature:  $(23,0 \pm 0,2) ^\circ\text{C}$

Relative Humidity:  $(46,2 \pm 0,2) \% \text{ R.H.}$

**Frequency Range of Measurement**

1 GHz to 18 GHz

**Instrument Settings**

IF Band Width: 1 MHz

**Test Results**

The requirements are:

- PASS
- NOT PASS
- NOT APPLICABLE

**Remarks**

- See Appendix A for test data.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z.

## APPENDIX A – TEST DATA

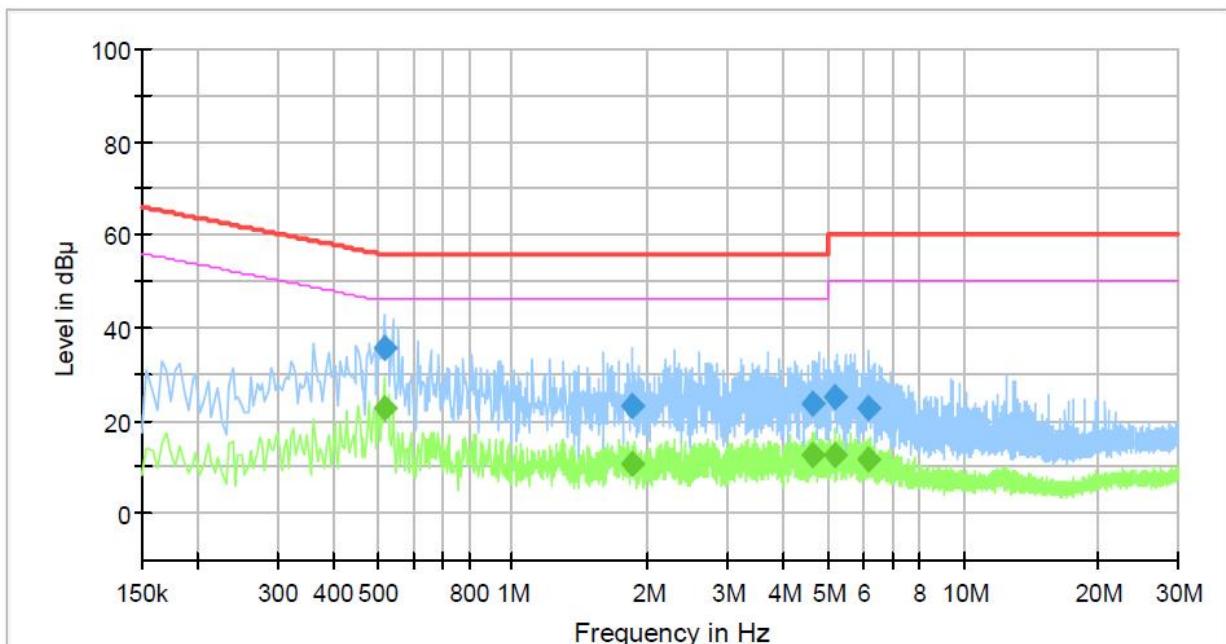
### Conducted Emissions at Mains Power Ports

#### ■ Charge Mode

HOT LINE

### Common Information

Test Description:	Conducted Emission
Model No.:	OB-S06UB1
Phase:	H
Mode:	Charge
Operator Name:	KES



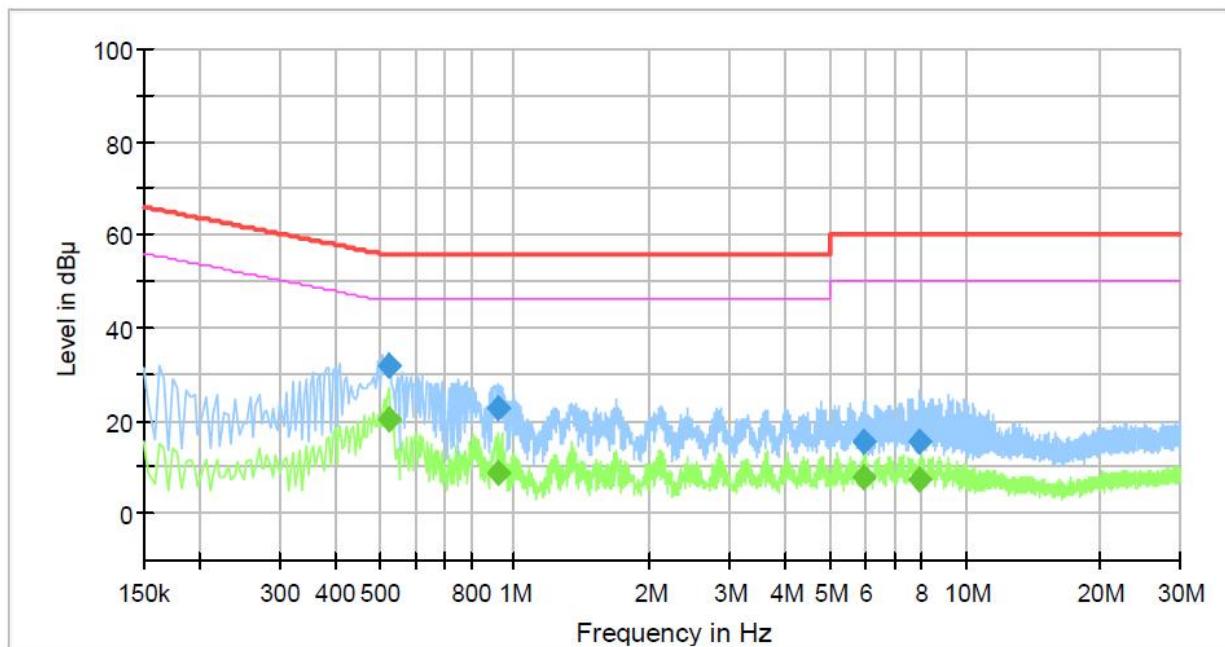
### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.518000	---	22.57	46.00	23.43	1000.0	9.000	L1	20.1
0.518000	35.56	---	56.00	20.44	1000.0	9.000	L1	20.1
1.834000	---	10.48	46.00	35.52	1000.0	9.000	L1	20.6
1.834000	23.04	---	56.00	32.96	1000.0	9.000	L1	20.6
4.646000	---	12.73	46.00	33.27	1000.0	9.000	L1	20.1
4.646000	23.49	---	56.00	32.51	1000.0	9.000	L1	20.1
5.206000	---	12.65	50.00	37.35	1000.0	9.000	L1	20.0
5.206000	25.07	---	60.00	34.93	1000.0	9.000	L1	20.0
6.190000	---	11.81	50.00	38.19	1000.0	9.000	L1	20.0
6.190000	22.68	---	60.00	37.32	1000.0	9.000	L1	20.0

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**NEUTRAL LINE**
**Common Information**

Test Description: Conducted Emission  
 Model No.: OB-S06UB1  
 Phase: N  
 Mode: Charge  
 Operator Name: KES


**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.526000	---	20.21	46.00	25.79	1000.0	9.000	N	20.0
0.526000	31.74	---	56.00	24.26	1000.0	9.000	N	20.0
0.922000	---	8.57	46.00	37.43	1000.0	9.000	N	20.4
0.922000	22.78	---	56.00	33.22	1000.0	9.000	N	20.4
5.982000	---	7.84	50.00	42.16	1000.0	9.000	N	19.9
5.982000	15.28	---	60.00	44.72	1000.0	9.000	N	19.9
7.934000	---	7.52	50.00	42.48	1000.0	9.000	N	20.1
7.934000	15.61	---	60.00	44.39	1000.0	9.000	N	20.1

**◆ Calculation**

$$\text{QuasiPeak[dB}\mu\text{V]} / \text{CAverage [dB}\mu\text{V]} = \text{Reading Value[dB}\mu\text{V]} + \text{Corr. [dB]}$$

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))



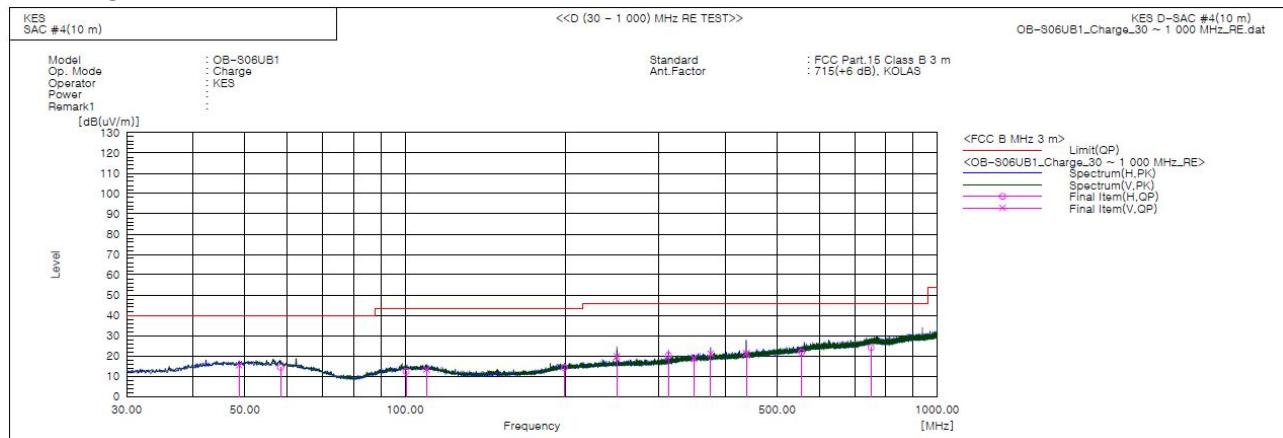
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## Radiated Electric Field Emissions(Below 1 GHz)

## ■ Charge Mode



## Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	48.794	V	36.9	-21.5	15.4	40.0	24.6	110.0	353.0	
2	58.373	H	36.5	-22.2	14.3	40.0	25.7	400.0	179.0	
3	100.446	H	35.4	-23.1	12.3	43.5	31.2	400.0	185.0	
4	109.783	V	36.3	-23.0	13.3	43.5	30.2	100.0	84.0	
5	199.265	H	35.8	-21.6	14.2	43.5	29.3	290.0	285.0	
6	249.948	V	39.8	-20.0	19.8	46.0	26.2	150.0	129.0	
7	312.513	H	38.6	-18.3	20.3	46.0	25.7	400.0	333.0	
8	349.009	V	35.2	-16.4	18.8	46.0	27.2	100.0	194.0	
9	374.956	V	37.1	-16.0	21.1	46.0	24.9	100.0	278.0	
10	437.521	V	36.0	-14.7	21.3	46.0	24.7	130.0	289.0	
11	555.861	H	33.4	-11.6	21.8	46.0	24.2	400.0	35.0	
12	750.346	H	31.5	-7.4	24.1	46.0	21.9	300.0	60.0	

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## ■ Operating Mode



## Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	50.491	H	37.0	-21.5	15.5	40.0	24.5	400.0	98.0	
2	56.675	V	37.7	-22.0	15.7	40.0	24.3	110.0	81.0	
3	106.509	H	38.3	-23.0	15.3	43.5	28.2	390.0	216.0	
4	137.428	V	44.3	-26.1	18.2	43.5	25.3	100.0	200.0	
5	141.914	H	44.4	-26.0	18.4	43.5	25.1	400.0	179.0	
6	149.431	V	41.8	-25.8	16.0	43.5	27.5	130.0	193.0	
7	152.948	H	44.7	-25.7	19.0	43.5	24.5	390.0	190.0	
8	249.948	V	40.1	-20.0	20.1	46.0	25.9	100.0	118.0	
9	312.513	V	37.2	-18.3	18.9	46.0	27.1	100.0	231.0	
10	342.098	H	35.0	-16.6	18.4	46.0	27.6	400.0	347.0	
11	437.521	V	37.5	-14.7	22.8	46.0	23.2	110.0	265.0	
12	645.708	H	34.5	-9.5	25.0	46.0	21.0	170.0	156.0	

it was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.

### ♦ Calculation - SAC #4(10 m)

Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)]

Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



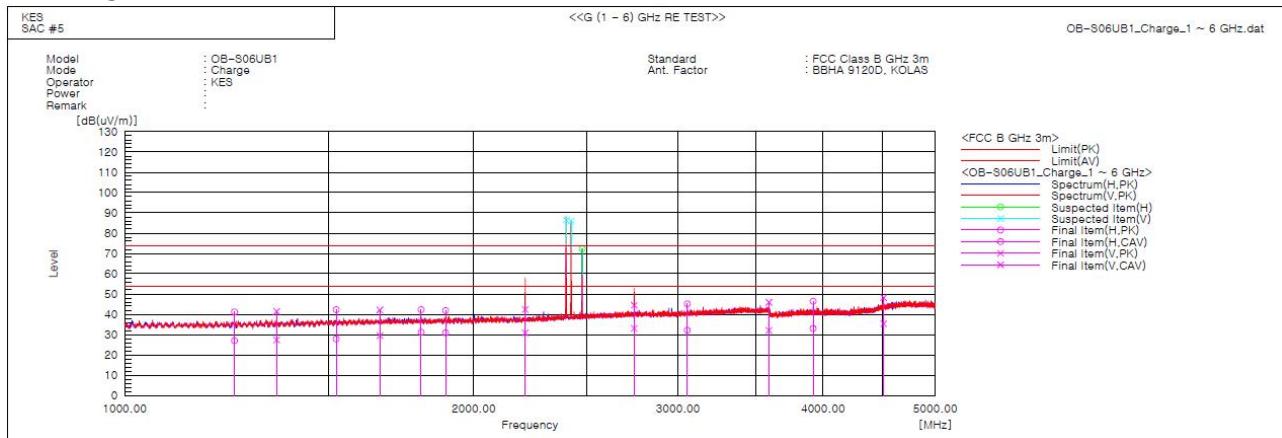
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## Radiated Electric Field Emissions(Above 1 GHz)

### ■ Charge Mode



### Final Result

No.	Frequency (P)	Reading PK	Reading CAV	c.f.	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]	
1	1243.460	H 47.6	33.4	-6.4	41.2	27.0	74.0	54.0	32.8	27.0	370.0	170.7	
2	1351.875	V 47.3	33.2	-5.8	41.5	27.4	74.0	54.0	32.5	26.6	110.0	338.5	
3	1521.822	H 47.5	33.1	-5.2	42.3	27.9	74.0	54.0	31.7	26.1	400.0	105.9	
4	1659.392	V 46.9	34.2	-4.7	42.2	29.5	74.0	54.0	31.8	24.5	120.0	15.3	
5	1801.527	H 46.3	35.2	-4.0	42.3	31.2	74.0	54.0	31.7	22.8	400.0	111.2	
6	1891.259	H 45.5	34.6	-3.7	41.8	30.9	74.0	54.0	32.2	23.1	350.0	225.5	
7	2214.416	V 45.3	33.8	-2.9	42.4	30.9	74.0	54.0	31.6	23.1	100.0	61.0	
8	2750.000	V 45.2	33.8	-0.7	44.5	33.1	74.0	54.0	29.5	20.9	120.0	61.0	
9	3055.527	H 45.1	32.2	0.0	45.1	32.2	74.0	54.0	28.9	21.8	260.0	281.4	
10	3593.081	V 45.5	31.7	0.5	46.0	32.2	74.0	54.0	28.0	21.8	100.0	127.8	
11	3923.166	H 44.5	31.1	1.9	46.4	33.0	74.0	54.0	27.6	21.0	400.0	321.8	
12	4511.769	V 43.4	30.6	4.8	48.2	35.4	74.0	54.0	25.8	18.6	100.0	89.5	
13	2402.500	V -----	-----	-2.3	-----	-----	74.0	54.0	-----	-----	99.9	281.3	
14	2426.250	V -----	-----	-2.2	-----	-----	74.0	54.0	-----	-----	99.9	5.3	
15	2480.000	H -----	-----	-2.0	-----	-----	74.0	54.0	-----	-----	99.9	19.4	

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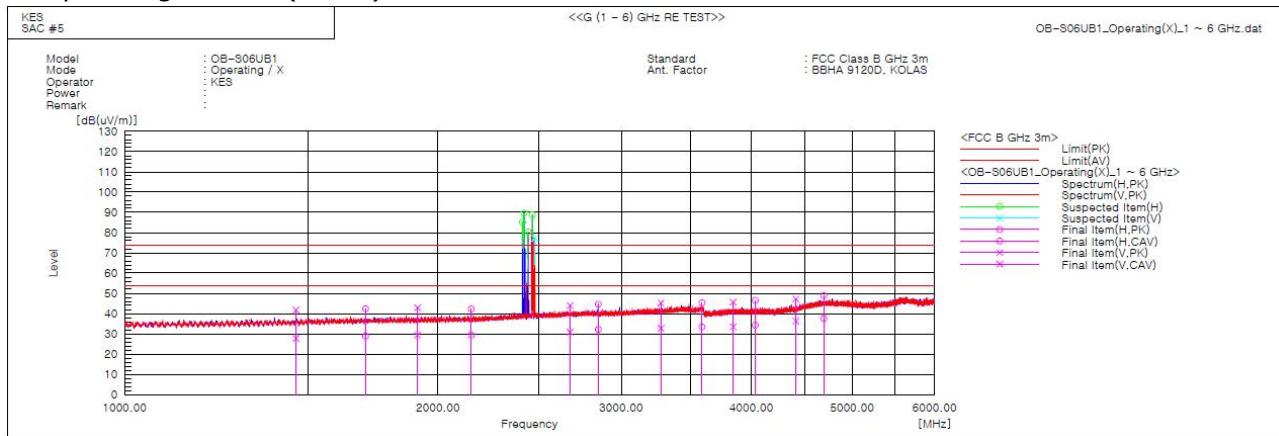


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## ■ Operating Mode - (1 ~ 6) GHz



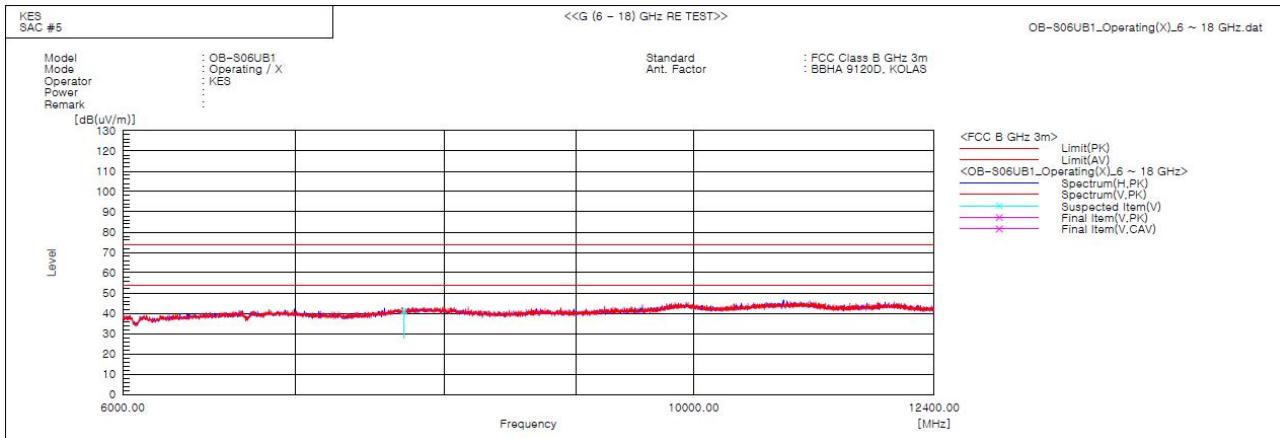
### Final Result

No.	Frequency [MHz]	(P) PK [dB(uV)]	Reading CAV [dB(uV)]	Reading CAV [dB(1/m)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB]	Limit AV [dB]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1460.625	V 47.1	33.1	-5.3	41.8	27.8	74.0	54.0	32.2	26.2	100.0	209.1		
2	1704.245	H 46.9	33.4	-4.5	42.4	28.9	74.0	54.0	31.6	25.1	400.0	105.8		
3	1911.822	V 46.5	33.0	-3.6	42.9	29.4	74.0	54.0	31.1	24.6	140.0	0.6		
4	2153.317	H 45.3	32.4	-3.0	42.3	29.4	74.0	54.0	31.7	24.6	380.0	355.6		
5	2678.770	V 45.1	32.0	-1.1	44.0	30.9	74.0	54.0	30.0	23.1	110.0	158.5		
6	2851.120	H 45.0	32.6	-0.4	44.6	32.2	74.0	54.0	29.4	21.8	360.0	331.7		
7	3275.099	V 44.9	32.5	0.3	45.2	32.8	74.0	54.0	28.8	21.2	100.0	282.3		
8	3587.521	H 44.8	32.9	0.5	45.3	33.4	74.0	54.0	28.7	20.6	400.0	160.3		
9	3841.950	V 44.1	32.0	1.6	45.7	33.6	74.0	54.0	28.3	20.4	100.0	294.5		
10	4035.118	H 44.3	32.1	2.2	46.5	34.3	74.0	54.0	27.5	19.7	290.0	19.6		
11	4413.991	V 43.0	32.0	4.3	47.3	36.3	74.0	54.0	26.7	17.7	110.0	132.7		
12	4695.022	H 43.2	31.9	5.7	48.9	37.6	74.0	54.0	25.1	16.4	390.0	98.3		
13	2411.250	H	-----	-2.2	-----	-----	74.0	54.0	-----	99.9	150.5			
14	2419.375	H	-----	-2.2	-----	-----	74.0	54.0	-----	99.9	26.5			
15	2441.875	H	-----	-2.1	-----	-----	74.0	54.0	-----	99.9	204.8			
16	2463.750	H	-----	-2.1	-----	-----	74.0	54.0	-----	99.9	105.8			
17	2478.125	V	-----	-2.0	-----	-----	74.0	54.0	-----	99.9	357.5			

- Fundamental Frequency: 2.4 GHz

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- (6 ~ 18) GHz



\* No spurious emission were detected above 6 GHz.

it was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.

◆ Calculation

$$\text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(PK/CAV)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$

$$\text{Margin(PK/CAV)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V}/\text{m})] - \text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})]$$

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Marjin value