



EMC TEST REPORT

Test Report No. : KES-EM-22T0361
Date of Issue : Apr. 26, 2022
Product name : Trimm One Lite
Model/Type No. : Trimm One Lite
Variant Mode : -
Applicant : Ratio LLC
Applicant Address : Rm. 506, 330, Seongam-ro, Mapo-gu, Seoul, Republic of Korea
Manufacturer : Ratio LLC
Manufacturer Address : Rm. 506, 330, Seongam-ro, Mapo-gu, Seoul, Republic of Korea
FCC ID : 2AUCE-TRIMMONELITE
Date of Receipt : Mar. 24, 2022
Test date : Mar. 28, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Dong Jun, Shin
EMC Test Engineer

Reviewed by

Dong Hun, Jang
EMC Technical Manager

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Apr. 26, 2022	KES-EM-22T0361	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Item	Details
Wireless	Bluetooth / ANT+
Power	Operation : DC 3.7 V / 500 mAh (Battery) Adapter Charge : DC 5 V (USB)
Weight	56 g
Port	3 Pin (Charge Port)
Components	EUT 1 EA / 3 Pin Cable 1EA / Solar Charger 1EA



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

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Trimm One Lite	Trimm One Lite	-	Ratio LLC	EUT
Solar Charge	-	-	-	-

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adapter	EP-TA20KWK	-	DONGYANG E&P VIETNAM CO., LTD.	-
Smartphone	A1586	-	Apple.Inc	-
cadence sensor	DA1604	-	DONGYANG E&P VIETNAM CO., LTD.	-
bulb	-	-	-	-



1.6 External I/O Cabling

■ Adapter charge Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Trimm One Lite (EUT)	3 Pin	Adapter	USB	1.0	U

* Unshielded = U, Shielded = S

■ Operation Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Trimm One Lite (EUT)	-	Smartphone	-	-	-
	-	cadence sensor	-	-	-
	3 Pin	Solar Charge	3 Pin	0.1	U
Solar Charge	-	bulb	-	-	-

* Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

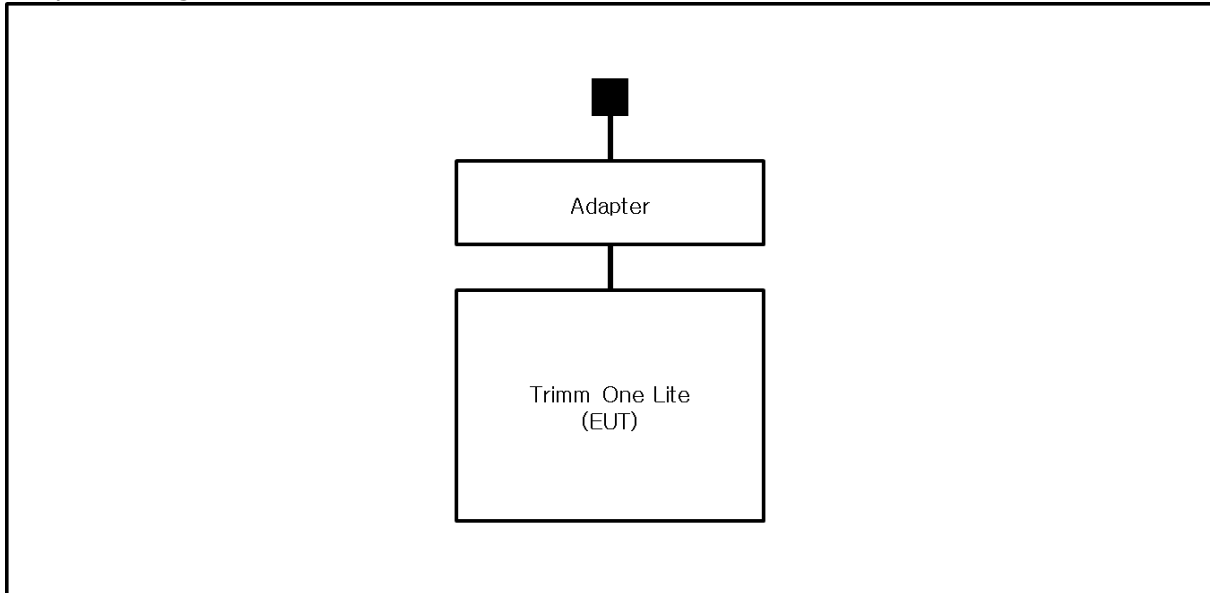
Test mode	operating
Adapter charge	Confirmed the charge the EUT.
Operation	1. Confirmed the ANT+ communication between the EUT and the cadence sensor through LCD of the EUT. 2. Confirmed the Bluetooth communication the EUT through 'Trim Cycling' application of the Smartphone.

EUT Test operating S/W		
Name	Version	Manufacture Company
Trim Cycling	3.0.5	-

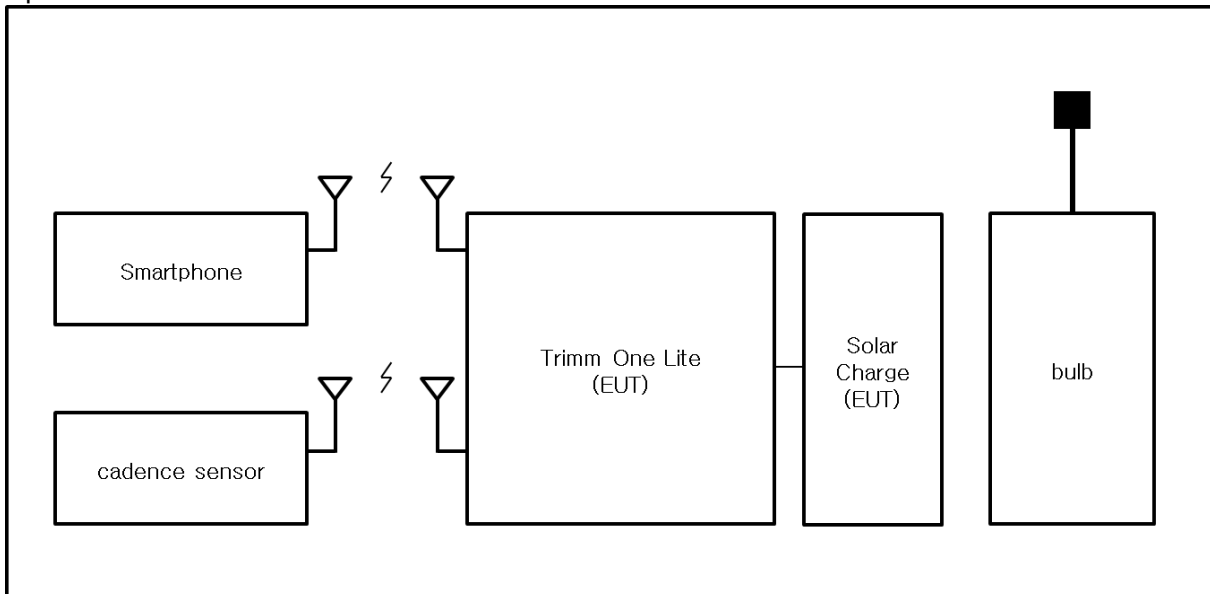
1.8 Configuration

■ AC Main
 □ DC Main

■ Adapter charge Mode



■ Operation Mode



EUT - Smartphone : Bluetooth
 EUT- cadence sensor : ANT+

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, Yeosu-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

1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	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	KOLAS	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	FCC	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Aechoic Chamber and Conducted test site	 23298-1
JAPAN	VCCI	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	TÜV SÜD	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



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **47 CFR Part 15, Subpart B**

☐ CISPR 22:2009 +A1:2010

☐ Class A

☐ Class B

☒ ANSI C63.4-2014

☐ Class A

☒ Class B



2.1 Conducted Emissions at Mains Power Ports

Test Date

Mar. 28, 2022

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EMC32	R & S	9.12.00	-	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022	1 Year
☒	LISN	ENV216	R & S	101787	12, 27, 2022	1 Year
☐	LISN	ESH2-Z5	R & S	100450	12, 27, 2022	1 Year
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022	1 Year

Test Conditions

Temperature: (24,9 ± 0,1) °C

Relative Humidity: (48,8 ± 0,1) % 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.



2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Mar. 28, 2022

Test Location

☐ OPEN AREA TEST SITE #2

☒ SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
☒	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022	1 Year
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	2 Year
☒	ATTENUATOR	8491A	HP	32173	03, 08, 2023	1 Year

Test Conditions

Temperature: (24,8 ± 0,1) °C

Relative Humidity: (44,9 ± 0,1) % 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.



2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Mar. 28, 2022

Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.120	-	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	03, 31, 2023	1 Year
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022	1 Year
☒	PREAMPLIFIER	8449B	HP	3008A00538	06, 21, 2022	1 Year

Test Conditions

Temperature: (25,2 ± 0,1) °C
Relative Humidity: (46,6 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 12,5 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.

APPENDIX A – TEST DATA

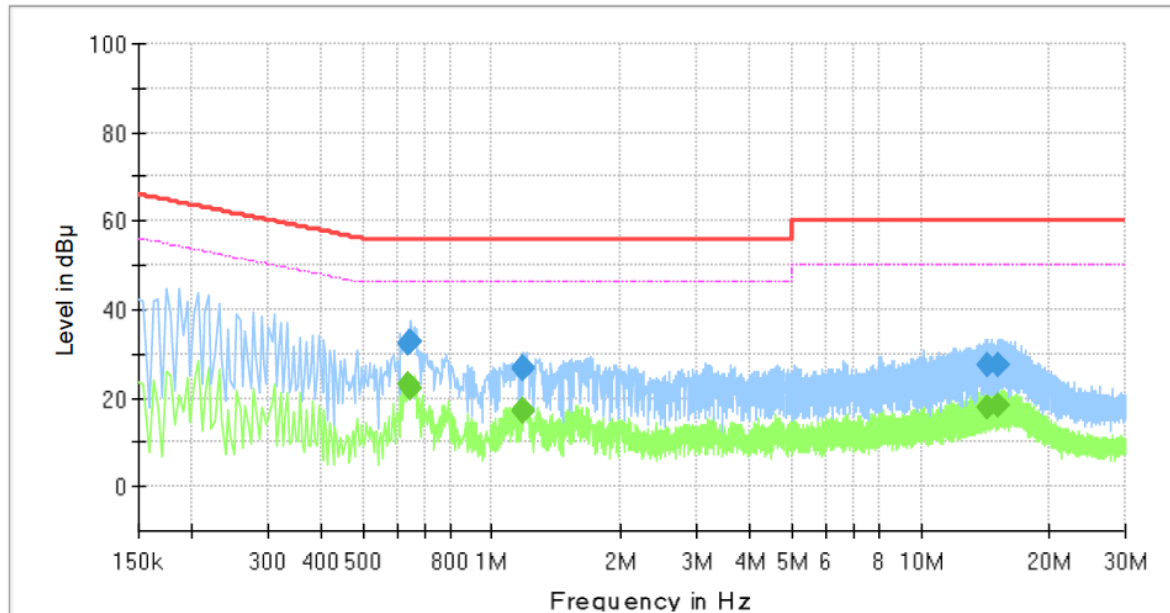
Conducted Emissions at Mains Power Ports

■ Adapter charge Mode

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	Trimm One Lite
Phase:	
Mode:	Adapter Charge_L1
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.638000	---	23.13	46.00	22.87	1000.0	9.000	L1	20.0
0.638000	32.50	---	56.00	23.50	1000.0	9.000	L1	20.0
0.646000	---	22.37	46.00	23.63	1000.0	9.000	L1	20.0
0.646000	32.55	---	56.00	23.45	1000.0	9.000	L1	20.0
1.174000	---	17.16	46.00	28.84	1000.0	9.000	L1	20.3
1.174000	26.40	---	56.00	29.60	1000.0	9.000	L1	20.3
1.186000	---	16.94	46.00	29.06	1000.0	9.000	L1	20.3
1.186000	27.01	---	56.00	28.99	1000.0	9.000	L1	20.3
14.370000	---	18.10	50.00	31.90	1000.0	9.000	L1	20.4
14.370000	27.38	---	60.00	32.62	1000.0	9.000	L1	20.4
15.058000	---	18.30	50.00	31.70	1000.0	9.000	L1	20.4
15.058000	27.61	---	60.00	32.39	1000.0	9.000	L1	20.4

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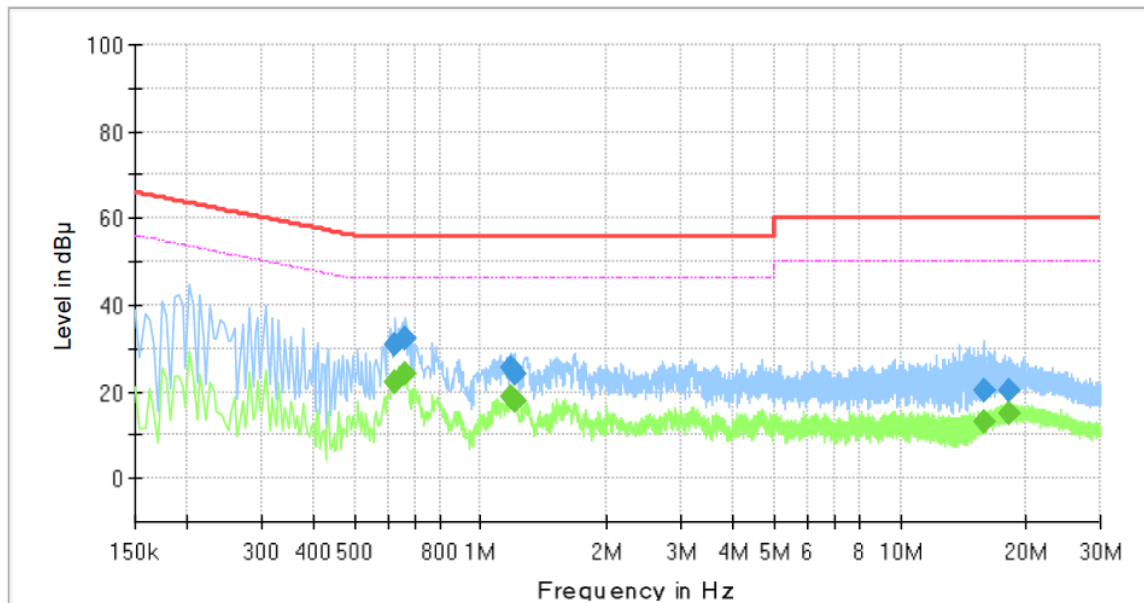
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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Model No.: Trimm One Lite
Phase:
Mode: Adapter Charge_N
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.626000	---	22.08	46.00	23.92	1000.0	9.000	N	20.0
0.626000	30.82	---	56.00	25.18	1000.0	9.000	N	20.0
0.662000	---	24.29	46.00	21.71	1000.0	9.000	N	20.0
0.662000	32.36	---	56.00	23.64	1000.0	9.000	N	20.0
1.174000	---	18.77	46.00	27.23	1000.0	9.000	N	20.2
1.174000	25.58	---	56.00	30.42	1000.0	9.000	N	20.2
1.202000	---	17.75	46.00	28.25	1000.0	9.000	N	20.2
1.202000	24.29	---	56.00	31.71	1000.0	9.000	N	20.2
15.762000	---	12.92	50.00	37.08	1000.0	9.000	N	20.5
15.762000	20.10	---	60.00	39.90	1000.0	9.000	N	20.5
18.146000	---	15.09	50.00	34.91	1000.0	9.000	N	20.7
18.146000	20.35	---	60.00	39.65	1000.0	9.000	N	20.7

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + 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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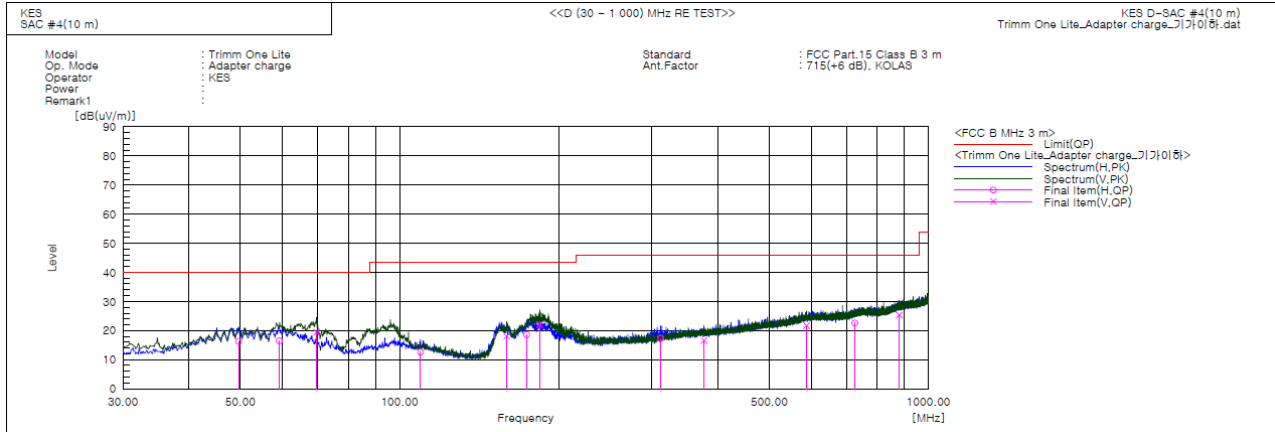
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Radiated Electric Field Emissions(Below 1 GHz)

■ Adapter charge Mode



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	49.643	H	37.6	-21.4	16.2	40.0	23.8	278.0	44.0	
2	59.221	H	38.7	-22.2	16.5	40.0	23.5	381.0	126.0	
3	69.649	V	44.6	-25.1	19.5	40.0	20.5	136.0	214.0	
4	109.540	H	35.5	-22.9	12.6	43.5	30.9	351.0	210.0	
5	159.374	V	43.5	-25.4	18.1	43.5	25.4	122.0	263.0	
6	173.924	H	43.4	-24.8	18.6	43.5	24.9	327.0	297.0	
7	184.109	V	45.9	-23.8	22.1	43.5	21.4	118.0	322.0	
8	311.421	H	35.6	-18.3	17.3	46.0	28.7	380.0	8.0	
9	376.048	V	32.4	-15.8	16.6	46.0	29.4	128.0	30.0	
10	588.114	V	31.8	-10.1	21.7	46.0	24.3	392.0	60.0	
11	725.611	H	31.0	-8.4	22.6	46.0	23.4	318.0	239.0	
12	880.448	V	31.5	-6.1	25.4	46.0	20.6	147.0	132.0	

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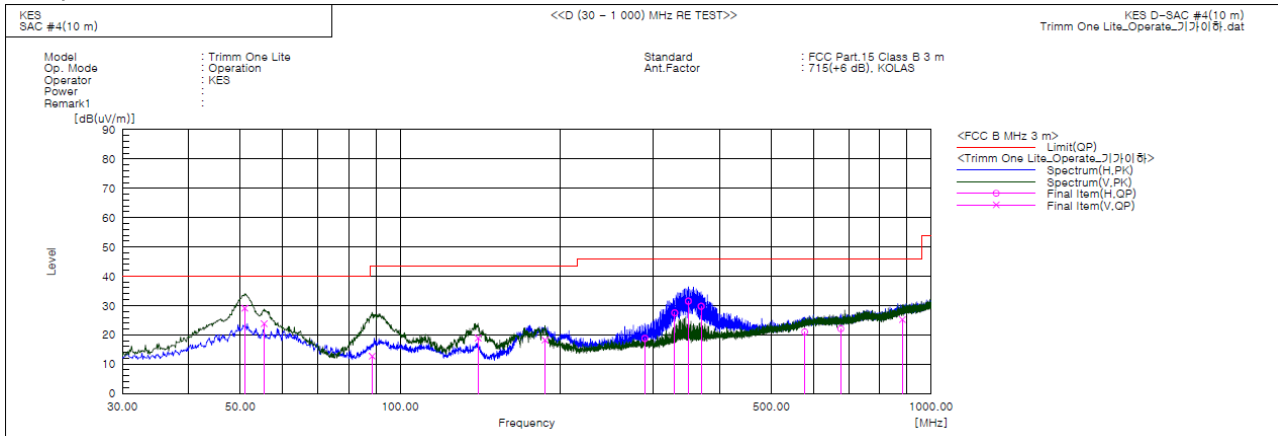


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Operation Mode



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	50.976	V	50.5	-21.4	29.1	40.0	10.9	134.0	247.0	
2	55.463	V	45.6	-21.8	23.8	40.0	16.2	136.0	293.0	
3	88.564	V	37.8	-25.1	12.7	43.5	30.8	128.0	345.0	
4	140.216	V	45.0	-26.1	18.9	43.5	24.6	117.0	50.0	
5	187.383	V	41.5	-23.3	18.2	43.5	25.3	139.0	39.0	
6	288.990	H	38.1	-19.3	18.8	46.0	27.2	382.0	238.0	
7	329.003	H	44.7	-17.2	27.5	46.0	18.5	389.0	174.0	
8	349.009	H	47.8	-16.3	31.5	46.0	14.5	384.0	174.0	
9	369.015	H	45.7	-16.0	29.7	46.0	16.3	249.0	174.0	
10	577.808	H	31.4	-10.4	21.0	46.0	25.0	315.0	1.0	
11	675.778	H	31.5	-9.4	22.1	46.0	23.9	356.0	284.0	
12	882.388	V	31.3	-6.1	25.2	46.0	20.8	126.0	88.0	

◆ 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



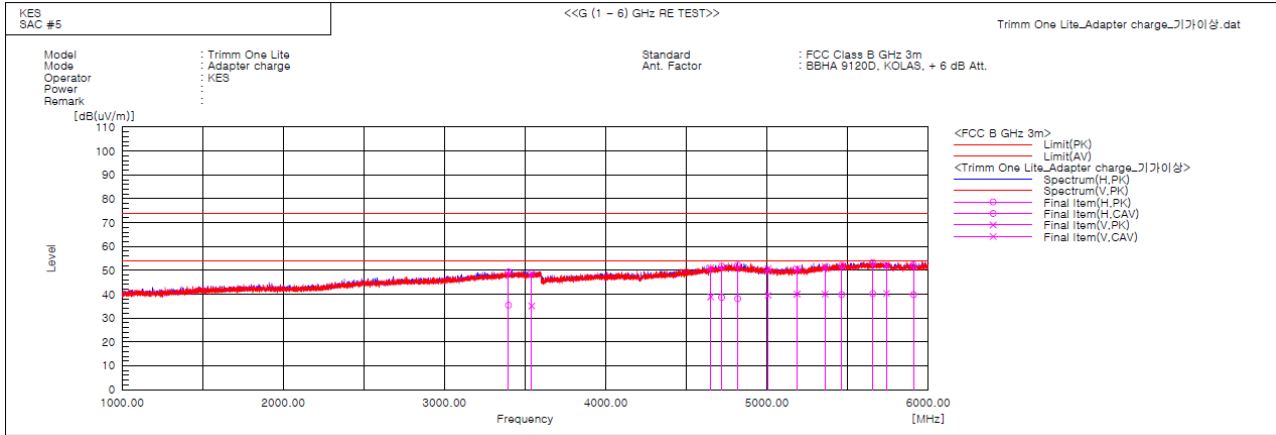
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Radiated Electric Field Emissions(Above 1 GHz)

■ Adapter charge Mode



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	3396.810	H	41.6	27.6	7.8	49.4	35.4	74.0	54.0	24.6	18.6	352.0	312.0	
2	3540.802	V	40.7	27.2	7.9	48.6	35.1	74.0	54.0	25.4	18.9	134.0	205.9	
3	4650.762	V	39.1	26.9	12.0	51.1	38.9	74.0	54.0	22.9	15.1	319.0	3.9	
4	4718.193	H	39.4	26.4	12.3	51.7	38.7	74.0	54.0	22.3	15.3	279.0	227.9	
5	4818.761	H	39.5	25.4	12.7	52.2	38.1	74.0	54.0	21.8	15.9	389.0	95.8	
6	5006.680	V	37.7	26.6	13.0	50.7	39.6	74.0	54.0	23.3	14.4	372.0	72.7	
7	5186.141	V	37.4	26.7	13.4	50.8	40.1	74.0	54.0	23.2	13.9	347.0	22.1	
8	5359.971	V	37.2	25.7	14.4	51.6	40.1	74.0	54.0	22.4	13.9	332.0	227.3	
9	5463.077	H	37.7	25.4	14.4	52.1	39.8	74.0	54.0	21.9	14.2	293.0	302.9	
10	5656.790	H	39.1	26.0	14.2	53.3	40.2	74.0	54.0	20.7	13.8	326.0	348.0	
11	5741.209	V	38.1	26.2	14.2	52.3	40.4	74.0	54.0	21.7	13.6	349.0	29.5	
12	5908.902	H	37.8	25.3	14.5	52.3	39.8	74.0	54.0	21.7	14.2	318.0	283.4	

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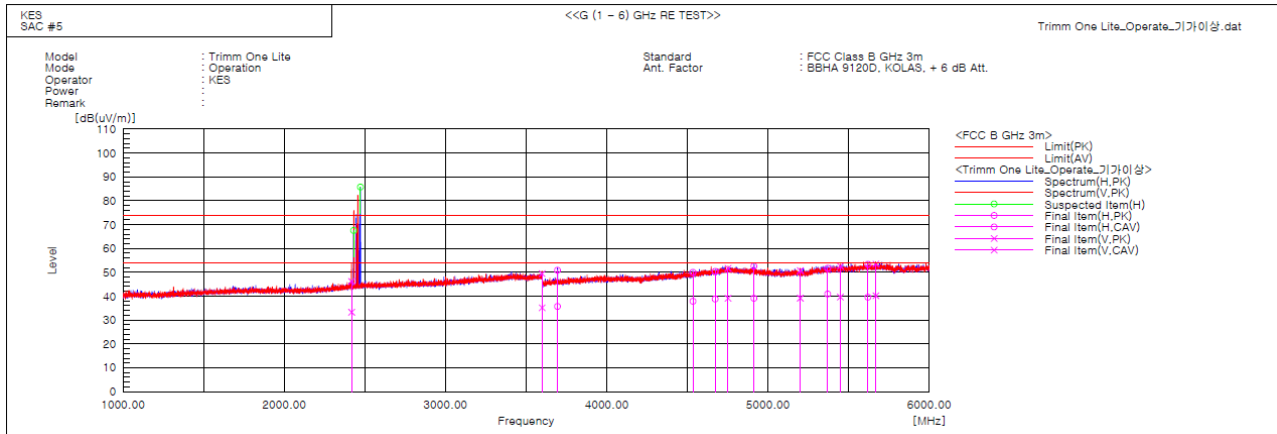
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■ Operation Mode

- (1 ~ 6) GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	2417.186	V	41.6	28.7	4.6	46.2	33.3	74.0	54.0	27.8	20.7	348.0	32.9	
2	3599.083	V	41.5	27.2	8.0	49.5	35.2	74.0	54.0	24.5	18.8	146.0	247.5	
3	3694.389	H	42.7	27.5	8.2	50.9	35.7	74.0	54.0	23.1	18.3	329.0	156.5	
4	4534.698	H	38.5	26.4	11.5	50.0	37.9	74.0	54.0	24.0	16.1	347.0	349.6	
5	4672.715	H	38.3	26.7	12.1	50.4	38.8	74.0	54.0	23.6	15.2	352.0	290.9	
6	4751.443	V	39.2	26.6	12.5	51.7	39.1	74.0	54.0	22.3	14.9	133.0	332.6	
7	4913.132	H	39.7	26.2	12.9	52.6	39.1	74.0	54.0	21.4	14.9	116.0	180.3	
8	5199.528	V	37.2	25.7	13.5	50.7	39.2	74.0	54.0	23.3	14.8	129.0	36.5	
9	5369.681	H	37.3	26.5	14.4	51.7	40.9	74.0	54.0	22.3	13.1	348.0	42.9	
10	5448.291	V	38.2	25.3	14.4	52.6	39.7	74.0	54.0	21.4	14.3	153.0	56.1	
11	5620.106	H	39.2	25.4	14.2	53.4	39.6	74.0	54.0	20.6	14.4	278.0	4.2	
12	5668.668	V	39.3	26.0	14.2	53.5	40.2	74.0	54.0	20.5	13.8	105.0	274.9	
13	2430.000	H			4.7			74.0	54.0			200.1	5.2	
14	2471.875	H			4.8			74.0	54.0			99.8	276.1	

* Exclusion Bands

- Fundamental Frequency: 2.4 GHz Band

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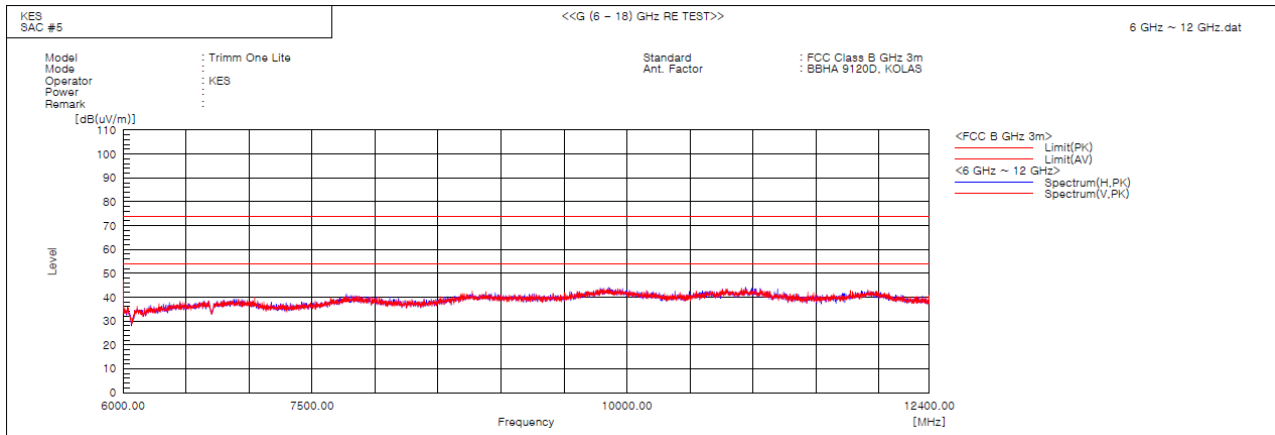


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- (6 ~ 12,5) GHz



* No spurious emission were detected above 6 GHz.

◆ Calculation

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

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

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

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