

EVALUATION REPORT

Applicant: LG Electronics USA, Inc. Date of Issue: Mar. 21, 2024

111 Sylvan Avenue North Building Order Number: GETEC-C1-24-155

Englewood Cliffs New Jersey United States 07632, Test Report Number: GETEC-E3-24-038

Attn: David Kim / Team leader Test Site: GUMI UNIVERSITY EMC CENTER

CAB Designation Number: KR0033

FCC ID. : **BEJZ65143B**

Applicant: LG Electronics USA, Inc.

Rule Part(s) : FCC Part 18

Test Method : FCC/OET MP-5

EUT Type : HOUSEHOLD DUAL FUEL RANGE

Equipment Class : Part 18 Consumer Device(8CC)

Type of Authority : Certification

Model Name : SKSDR480SIS

Trade Mark : LG

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC/OET MP-5 (1986)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the vest of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,

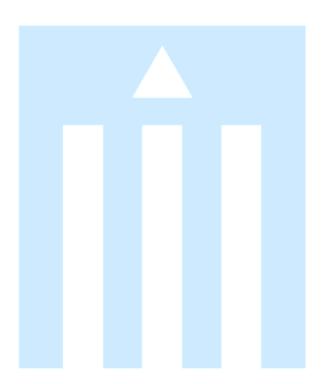
Tak Dong Kim, Associate Engineer GUMI UNIVERSITY EMC CENTER Reviewed by,

Sung Joo Park, Technical Manager GUMI UNIVERSITY EMC CENTER : GETEC-C1-24-155

Revision list

Test Report No.	Issue Date	Description
GETEC-E3-24-038	Mar. 21, 2024	First Approval Test Report

^{*} This test report is not related to the accredited test result by ISO/IEC 17025 and KOLAS



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Scope: Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

1. General Information

Applicant: LG Electronics USA, Inc.

Applicant Address: 111 Sylvan Avenue North Building

Englewood Cliffs New Jersey United States 07632

Manufacturer: LG Electronics Inc.

Telephone Number: 1-201-266-2443

Manufacturer Address: 170, Sungsanpaechong-ro, Seongsan-gu, Changwon-si,

Gyeongsangnam-do, 51533, Korea

Contact Person: David Kim / Team leader

• **FCC ID.** BEJZ65143B

• EUT Type HOUSEHOLD DUAL FUEL RANGE

Model Name SKSDR480SIS

• Rule Part(s) FCC Part 18

• Test Method FCC/OET MP-5

Type of Authority Certification

• Test Procedure(s) FCC/OET MP-5

• **Dates of Test** Mar. 18, 2024 ~ Mar. 21, 2024

Place of Test
 GUMI UNIVERSITY EMC CENTER

(FCC Test Firm Registration Number: 269701)

37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.

• Test Report Number GETEC-E3-24-038

• **Dates of Issue** Mar. 21, 2024

2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2014) was used in determining radiated and conducted emissions emanating from

HOUSEHOLD DUAL FUEL RANGE (Model name: SKSDR480SIS).

These measurement tests were conducted at GUMI UNIVERSITY EMC CENTER

The site address is 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.

This test site is one of the highest point of Gumi UNIVERSITY at about 200 km away from Seoul city and 40 km away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 (2017)



Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.

: GETEC-C1-24-155

3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the HOUSEHOLD DUAL FUEL RANGE (Model Name: SKSDR480SIS)

FCC ID.: BEJZ65143B

Oven Range Models	SKSDR480SIS			
Description	48" Duel Fuel Pro Range			
Electrical requirements	13.5 kW 120/240 VAC, 10.5 kW 120/208 VAC			
Exterior Dimensions	47 ⁷ / ₈ " (W) x 35 ¹ / ₄ " (H) x 26 ³ / ₄ " (D) (D with door closed)			
	121.6 cm (W) x 89.6 cm (H) x 67.9 cm (D) (D with door closed)			
Height to cooking surface	36" (91.4 cm)			
Net weight	529.1 lb (240 kg)			
	Right Oven: 5.2 cu.ft			
Total capacity	Left Oven: 2.7 cu.ft			
	Total: 7.9 cu.ft			

Wireless LAN Module Specifications

Wireless LAN Module Specifications						
Model LCW-009						
Frequency Range	2412 MHz – 2462 MHz					
Output Power (Max)	< 30 dBm					

Induction heating mode

Cooking Element	Low frequency (Maximum power)	High frequency (Minimum power)
#1 Front Hob	25 kHz	75 kHz
#2 Rear Hob	25 kHz	75 kHz

GETEC-QP-16-008 (Rev.01)

EUT Type: HOUSEHOLD DUAL FUEL RANGE FCC ID.: BEJZ65143B

: GETEC-C1-24-155

3.2 Support Equipment / Cables used

3.3.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.	
None	-	-	S/N: - FCC ID.: -	

See "Appendix D – Test Setup Photographs" for actual system test set-up

3.3.2 System configuration

Description Manufacturer		Model Name	S/N & FCC ID.	
WLAN module	LG Electronics Inc.	LCW-009	S/N: FCC ID.: BEJ-LCW009	

3.3.3 Used Cable(s)

Cable Name	Condition		Description			
Power cable	Connected to	the EUT and AC	C power			1.80 m Unshielded.

3.3 Modification Item(s)

-. None

GETEC-QP-16-008 (Rev.01)

4. Description of tests

4.1 Test Condition

The EUT was installed, arranged and operated in a manner that is most representative of equipment as typically used.

The measurements were carried out while varying operating modes and cable positions within typically arrangement to determine maximum emission level.

The representative and worst test mode(s) were noted in the test report.

- Test Voltage / Frequency: AC 208 V / 240 V, 60 Hz
- Operating condition during the test(s) :

This device has been tested in the configurations of Induction mode with WLAN module operating.

Induction mode: This device has been operated (boost mode) with an enameled steel vessel filled with tap

water up to 80 % of its maximum capacity.

Cooking element "1"= front hob, "2"= rear hob, "1","2"(W*D*H) = 215mm *180 mm * 100mm

4.2 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 (2017) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which Fixed at 2 m above the ground plane to find out the highest emission.

And also, each emission was to be maximized by the table was turned from 0 degrees to 360 degrees. In order to find out the max emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4 (2017).

5. Summary of Test Results

FCC Part Section(s)	Test Description	Test Result
§18.305	Radiated Emission	Pass
§18.307	Conducted Emission	Pass

6. Conducted Emission

-Test Description

The Line conducted emission test facility is inside a 4 m × 8 m × 2.5 m shielded enclosure.

(FCC Test Firm Registration No.: 269701)

The EUT was placed on a non-conducting 1.0 m by 1.5 m table, which is 0.8 m in height and 0.4 m away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN and the support equipment is powered from the Rohde & Schwarz LISN Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with $30 \text{ cm} \sim 40 \text{ cm}$.

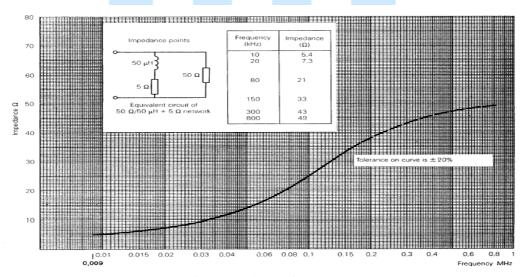


Fig 2. Impedance of LISN

FCC ID.: BEJZ65143B

6.1 Operating Environment

Temperature : 20.6 °C Relative Humidity : 37.3 % Air Pressure : 101.5 kPa

6.2 Test Set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8 m heights above the floor, 0.4 m from the reference ground plane (GRP) wall and 0.8 m from AMN & ISN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

6.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement."

The measurement uncertainty was given with a confidence of 95 %.

Test Items	Uncertainty	Remark
Conducted emission (9 kHz ~ 150 kHz)	3.69 dB	Confidence level of approximately 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	3.32 dB	Confidence level of approximately 95 % $(k = 2)$

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results

6.4 Limit

4 Limit							
RFI Conducted	FCC Limit(dBµV/m)						
Freq. Range	Quasi-Peak	Average					
0.009 MHz ~ 0.05 MHz	110	-					
0.05 MHz ~ 0.15 MHz	90 ~ 80*	-					
0.15 MHz ~ 0.5 MHz	66 ~ 56*	56 ~ 46*					
0.5 MHz ~ 5 MHz	56	46					
5 MHz ~ 30 MHz	60	50					
*Limits decreases linearly with the logarithm of frequency.							

6.5 Test Equipment used

	Model Name	Manu	ıfacture	r	D	escripti	on		Serial N	Number	Calibration Date
■ -	ESCI	Rohde	e & Schv	warz	E	MI Test	Receiv	er	100237		Apr. 05, 2023
	ENV216	Rohde	e & Schv	varz	L	ISN			100173		Apr. 05, 2023
	ENV216	Rohde	e & Schv	varz	L	ISN			100172		Apr. 05, 2023
■ -	ESH2-Z5	Rohde	e & Schv	varz	L	ISN			829991	/009	Apr. 06, 2023
■ -	VTSD 9561-D	SCHV	VARZBI	ECK	Pι	ılse Lin	niter		32		Apr. 06, 2023
■ -	EMC 32	Rohde	e & Schv	varz	So	oftware			Ver.8.53	3	N/A

6.6 Test data for Conducted Emission

-. Test Date : Mar. 18, 2024 ~ Mar. 20, 2024

-. Resolution Bandwidth : 200 Hz (9 kHz \sim 0.15 MHz) / 9 kHz (0.15 MHz \sim 30 MHz)

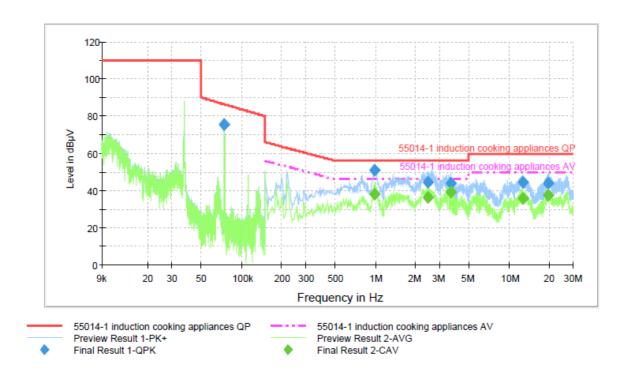
-. Frequency Range-. Line: 9 kHz ~ 30 MHz: L1: Live, N: Neutral

-. Comment : None

Number : GETEC-C1-24-155 eport Number : GETEC-E3-24-038

• Operating condition: Induction mode with WLAN

AC 208 V / 60 Hz Cooking element #1

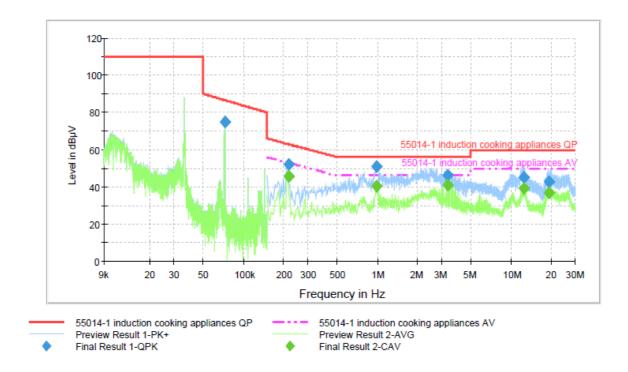


Final Result 1

I III al I ve	Juli								
Frequency	QuasiPeak	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.073265	75.5	1000.0	0.200	GND	L2	20.1	11.0	86.5	
0.989069	50.9	1000.0	9.000	GND	N	20.6	5.1	56.0	
2.453300	44.4	1000.0	9.000	GND	N	20.7	11.6	56.0	
3.649181	44.2	1000.0	9.000	GND	N	20.7	11.8	56.0	
12.542062	44.8	1000.0	9.000	GND	N	20.8	15.2	60.0	
19.542425	44.0	1000.0	9,000	GND	N	20.8	16.0	60.0	

Frequency	CAverage	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.989069	37.9	1000.0	9.000	GND	N	20.6	8.1	46.0	
2.453300	36.0	1000.0	9.000	GND	N	20.7	10.0	46.0	
3.649181	39.1	1000.0	9.000	GND	N	20.7	6.9	46.0	
12.542062	35.7	1000.0	9.000	GND	N	20.8	14.3	50.0	
19.542425	37.4	1000.0	9.000	GND	N	20.8	12.6	50.0	

Cooking element #2



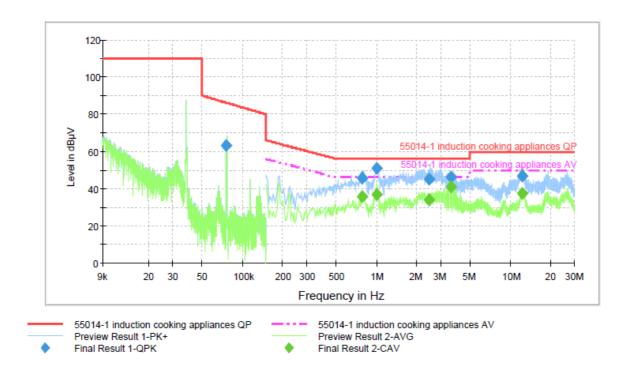
Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.073009	75.1	1000.0	0.200	GND	L2	20.1	11.5	86.6	
0.216431	51.9	1000.0	9.000	GND	L2	20.6	11.1	63.0	
0.989338	51.1	1000.0	9.000	GND	N	20.6	4.9	56.0	
3.350681	46.4	1000.0	9.000	GND	N	20.7	9.6	56.0	
12.367800	44.8	1000.0	9.000	GND	N	20.8	15.2	60.0	
19.278075	43.0	1000.0	9.000	GND	N	20.9	17.0	60.0	·

Frequency	CAverage	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.216431	45.5	1000.0	9.000	GND	L2	20.6	7.5	53.0	
0.989338	40.6	1000.0	9.000	GND	N	20.6	5.4	46.0	
3.350681	40.7	1000.0	9.000	GND	N	20.7	5.3	46.0	
12.367800	39.5	1000.0	9.000	GND	N	20.8	10.5	50.0	
19.278075	36.8	1000.0	9.000	GND	N	20.9	13.2	50.0	

r : GETEC-C1-24-155 (umber : GETEC-E3-24-038

AC 240 V / 60 Hz Cooking element #1

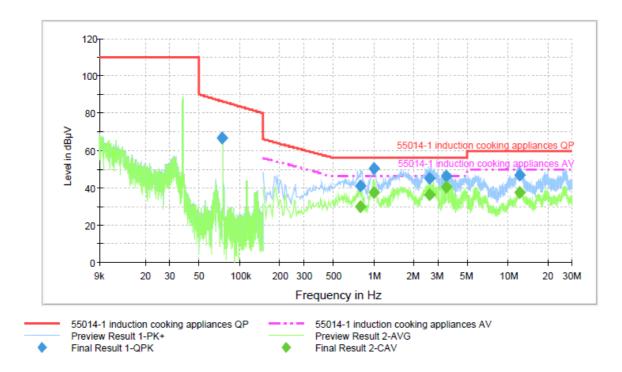


Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.075098	63.2	1000.0	0.200	GND	N	20.1	23.1	86.3	
0.782238	45.6	1000.0	9.000	GND	N	20.6	10.4	56.0	
1.007725	50.9	1000.0	9.000	GND	N	20.6	5.1	56.0	
2.483956	44.8	1000.0	9.000	GND	L1	20.7	11.2	56.0	
3.603600	46.3	1000.0	9.000	GND	N	20.7	9.7	56.0	·
12.220369	46.7	1000.0	9.000	GND	N	20.8	13.3	60.0	

Frequency	CAverage	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.782238	36.0	1000.0	9.000	GND	N	20.6	10.0	46.0	
1.007725	36.7	1000.0	9.000	GND	N	20.6	9.3	46.0	
2.483956	34.0	1000.0	9.000	GND	L1	20.7	12.0	46.0	
3.603600	41.2	1000.0	9.000	GND	N	20.7	4.8	46.0	·
12.220369	37.3	1000.0	9.000	GND	N	20.8	12.7	50.0	

Cooking element #2



Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.074234	66.8	1000.0	0.200	GND	L1	20.1	19.6	86.4	
0.791775	41.0	1000.0	9.000	GND	L1	20.6	15.0	56.0	
1.007994	50.2	1000.0	9.000	GND	L1	20.6	5.8	56.0	
2.622012	45.1	1000.0	9.000	GND	N	20.7	10.9	56.0	
3.439694	46.2	1000.0	9.000	GND	N	20.7	9.8	56.0	
12.128969	46.9	1000.0	9.000	GND	N	20.8	13.1	60.0	

Frequency	CAverage	Meas. Time	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.791775	29.7	1000.0	9.000	GND	L1	20.6	16.3	46.0	
1.007994	37.4	1000.0	9.000	GND	L1	20.6	8.6	46.0	
2.622012	36.4	1000.0	9.000	GND	N	20.7	9.6	46.0	
3.439694	40.2	1000.0	9.000	GND	N	20.7	5.8	46.0	
12.128969	37.6	1000.0	9.000	GND	N	20.8	12.4	50.0	

7. Radiated Emission

7.1 Operating Environment

7.2 Test Set-up

The Radiated emission measurements were conducted at the worst test conditions.

The measurements of below 1 GHz were made at 3 m Semi Anechoic Chamber or 10 m Semi Anechoic Chamber (FCC Test Firm Registration No.: 269701) that complies with CISPR 16 / ANSI C63.4.

The frequency range of 9 kHz to 30 MHz, The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360° and the receive antenna was fixed 2.0 m on the ground plane.

The frequency range of 30 MHz to 1 000 MHz, The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360° and adjusting the receive antenna height from 1.0 m to 4.0 m. All frequencies were investigated in both horizontal and vertical antenna polarity.

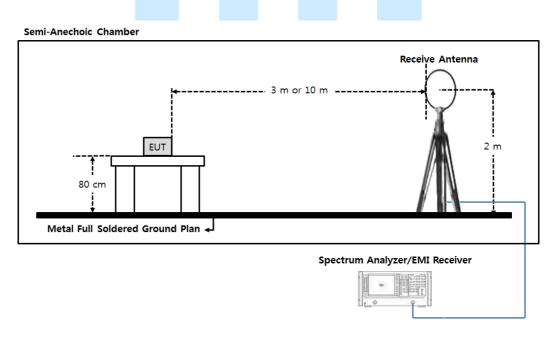


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

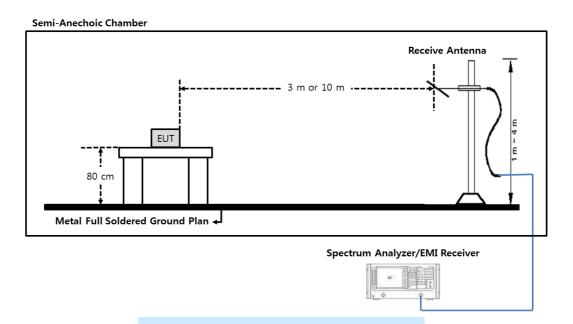


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)

: GETEC-C1-24-155

7.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement".

The measurement uncertainty was given with a confidence of 95 %.

Test Items(10 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 10 m, Vertical)	4.77 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 10 m, Horizontal)	4.79 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Vertical)	4.91 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Horizontal)	4.90 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m)	4.63 dB	Confidence level of approximately 95 % $(k = 2)$
Test items (3 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	4.90 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	4.79 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	6.23 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	5.16 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (1 GHz ~ 6 GHz, 3 m)	4.56 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (6 GHz ~ 18 GHz, 3 m)	4.88 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (18 GHz ~ 26 GHz, 3 m)	5.16 dB	Confidence level of approximately 95 % (k = 2)

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results

7.4 Limit

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25×SQRT(power/500)	300 ¹300
	Any non-ISM frequency	Below 500 500 or more	15 15×SQRT(power/500)	300 ¹300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1,600
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)× SQRT(power/500)	300 ³ 300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	⁴ 30 ⁴ 30

Note.

- 1) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
- 2) Reduced to the greatest extent possible.
- 3) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
- 4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

7.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESR7	Rohde & Schwarz	EMI Test Receiver	101382	Apr. 05, 2023
■ - HFH2-Z2	Rohde & Schwarz	Loop ANT	100041	Apr. 15, 2022
■ - CO3000	Innco system GmbH	Position Controller	CO3000/779/330	N/A
			50314/L	
■ - DT3000	Innco system GmbH	Turntable	1280314	N/A
□ - MA4000-EP	Innco system GmbH	Antenna Mast	4420314	N/A
□ - MA4640-XP-ET	Innco system GmbH	Antenna Mast	MA4640/558	N/A
■ - EMC 32	Rohde & Schwarz	Software	Ver.10.40.10	N/A

All test equipment used is calibrated on a regular basis.

FCC ID.: BEJZ65143B

7.6 Test data for Radiated Emission

-. Test Date : Mar. 18, 2024 ~ Mar. 21, 2024

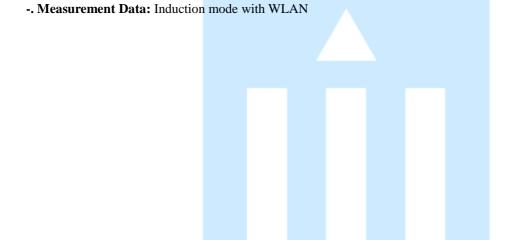
-. Measurement Distance : 10 m

-. Note : frequency range to be scanned up to 30 MHz, because the frequency band in which the

EUT operates less than 1.705 MHz

-. Measurement setting

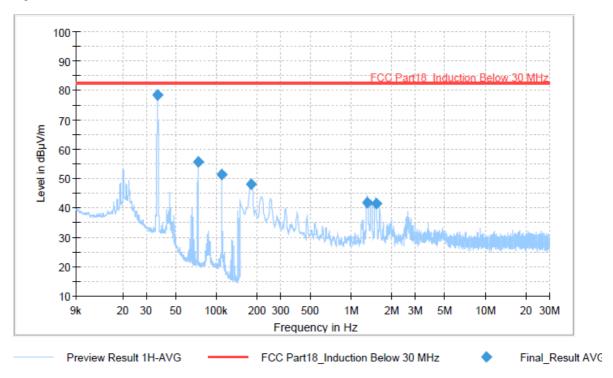
Frequency range	9 kHz ~ 150 kHz	0.15 MHz ~ 30 MHz		
Detector mode	Average	Average		
Resolution bandwidth	200 Hz	9 kHz		



FCC ID.: BEJZ65143B

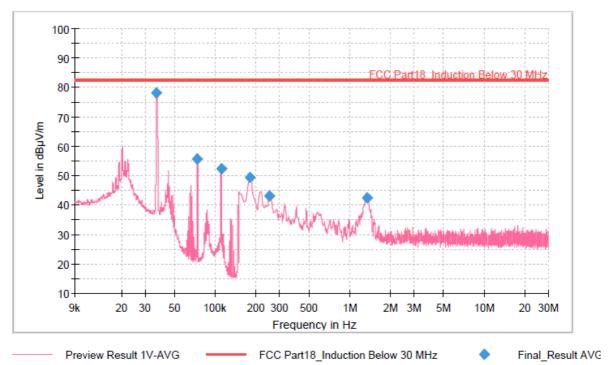
[208V, 60 Hz]

Cooking Element #1_H



a	- u							
Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)
				(ms)			(deg)	
0.036098	78.35	82.60	4.25	1000.0	0.200	Н	320.0	19.8
0.073069	55.52	82.60	27.08	1000.0	0.200	Н	286.0	19.7
0.109630	51.43	82.60	31.17	1000.0	0.200	Н	320.0	19.7
0.179850	48.10	82.60	34.50	1000.0	9.000	Н	320.0	19.7
1.316075	41.76	82.60	40.84	1000.0	9.000	Н	242.0	19.8
1.535055	41.39	82.60	41.21	1000.0	9.000	Н	70.0	19.9

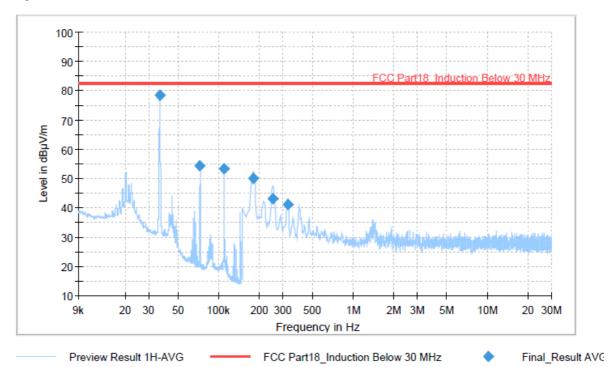
Cooking Element #1_V



mai_itesuit										
Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.		
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)		
				(ms)			(deg)			
0.036299	78.21	82.60	4.39	1000.0	0.200	V	21.0	19.8		
0.072686	55.72	82.60	26.88	1000.0	0.200	٧	331.0	19.7		
0.110570	52.47	82.60	30.13	1000.0	0.200	V	21.0	19.7		
0.182000	49.38	82.60	33.22	1000.0	9.000	V	239.0	19.7		
0.253475	43.11	82.60	39.49	1000.0	9.000	V	239.0	19.7		
1.344075	42.47	82.60	40.13	1000.0	9.000	V	125.0	19.9		

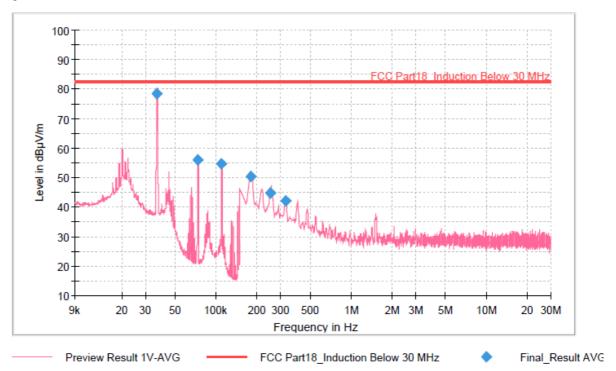
: GETEC-C1-24-155 Jumber : GETEC-E3-24-038

Cooking Element #2_H



•	mai_nesuit								
	Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.
	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)
					(ms)			(deg)	
	0.036324	78.38	82.60	4.22	1000.0	0.200	Н	7.0	19.8
	0.072189	54.36	82.60	28.24	1000.0	0.200	Н	258.0	19.7
	0.108830	53.50	82.60	29.10	1000.0	0.200	Н	7.0	19.7
L	0.179850	50.14	82.60	32.46	1000.0	9.000	Н	7.0	19.7
L	0.253475	43.24	82.60	39.36	1000.0	9.000	Н	7.0	19.7
	0.325115	41.04	82.60	41.56	1000.0	9.000	Н	0.0	19.7

Cooking Element #2_V

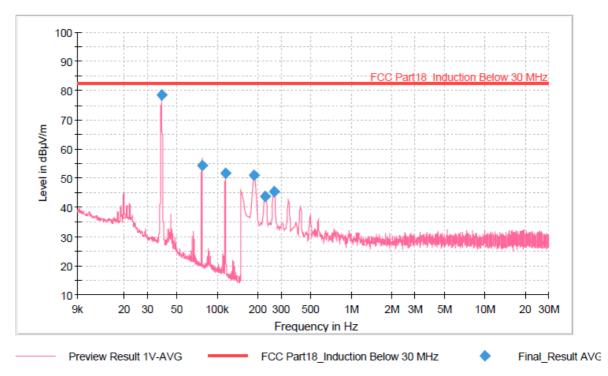


Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azim uth (deg)	Corr. (dB/m)
0.036375	78.57	82.60	4.03	1000.0	0.200	٧	302.0	19.8
0.072691	56.09	82.60	26.51	1000.0	0.200	٧	339.0	19.7
0.109558	54.76	82.60	27.84	1000.0	0.200	٧	302.0	19.7
0.182000	50.24	82.60	32.36	1000.0	9.000	٧	257.0	19.7
0.253475	44.77	82.60	37.83	1000.0	9.000	٧	82.0	19.7
0.325115	42.24	82.60	40.36	1000.0	9.000	V	94.0	19.7

Jumber : GETEC-C1-24-155 port Number : GETEC-E3-24-038

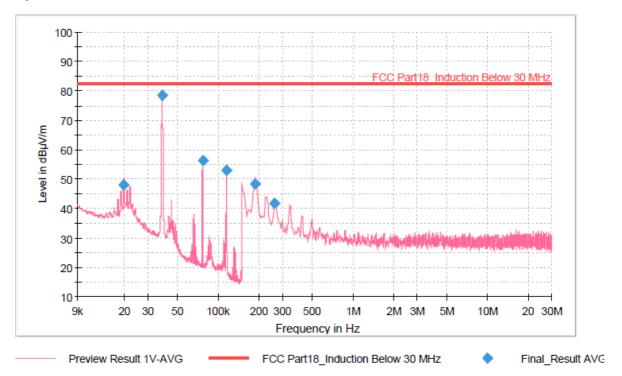
[240V, 60 Hz]

Cooking Element #1_H



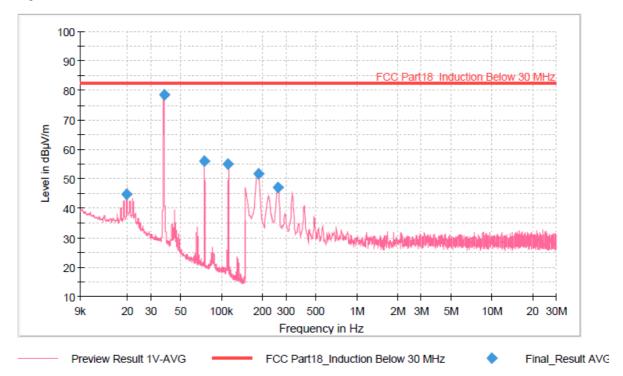
I III WI I I VO								
Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)
				(ms)			(deg)	
0.038215	78.38	82.60	4.22	1000.0	0.200	Н	190.0	19.8
0.076598	54.30	82.60	28.30	1000.0	0.200	Н	138.0	19.7
0.115077	51.53	82.60	31.07	1000.0	0.200	Н	235.0	19.7
0.188805	50.99	82.60	31.61	1000.0	9.000	Н	219.0	19.7
0.227610	43.84	82.60	38.76	1000.0	9.000	Н	231.0	19.7
0.263430	45.51	82.60	37.09	1000.0	9.000	н	215.0	19.7

Cooking Element #1_V



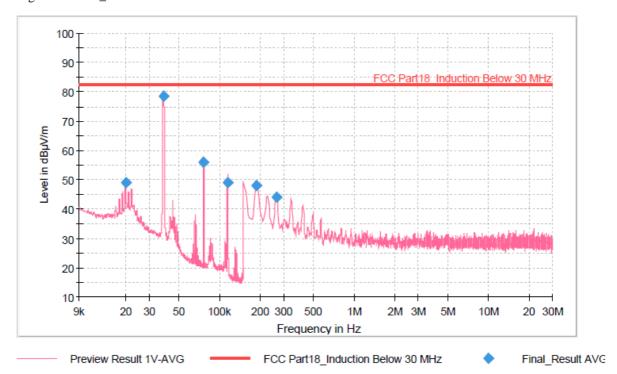
i iliai Nesult								
Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)
				(ms)			(deg)	
0.019850	47.96	82.60	34.64	1000.0	0.200	V	6.0	20.1
0.038055	78.57	82.60	4.03	1000.0	0.200	V	249.0	19.8
0.076490	56.31	82.60	26.29	1000.0	0.200	V	212.0	19.7
0.115077	52.87	82.60	29.73	1000.0	0.200	V	249.0	19.7
0.186000	48.29	82.60	34.31	1000.0	9.000	V	256.0	19.7
0.261415	41.75	82.60	40.85	1000.0	9.000	V	256.0	19.7

Cooking Element #2_H



illai Kesult									
Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.	
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)	
				(ms)			(deg)		
0.019850	44.78	82.60	37.82	1000.0	0.200	Н	170.0	20.1	
0.037555	78.52	82.60	4.08	1000.0	0.200	Н	246.0	19.8	
0.074652	55.90	82.60	26.70	1000.0	0.200	Н	139.0	19.7	
0.111071	55.11	82.60	27.49	1000.0	0.200	Н	246.0	19.7	
0.185820	51.66	82.60	30.94	1000.0	9.000	Н	239.0	19.7	
0.260445	46.95	82.60	35.65	1000.0	9.000	Н	239.0	19.7	

Cooking Element #2_V



Final Result

	IIIui IXC	Juit							
	Frequency	Average	Limit	Margin	Meas.	Bandwidth	Pol	Azim	Corr.
ı	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)		uth	(dB/m)
					(ms)			(deg)	
	0.019930	48.95	82.60	33.65	1000.0	0.200	V	230.0	20.1
	0.038095	78.52	82.60	4.08	1000.0	0.200	V	180.0	19.8
	0.075774	56.15	82.60	26.45	1000.0	0.200	V	226.0	19.7
	0.113999	48.99	82.60	33.61	1000.0	0.200	V	292.0	19.7
	0.188805	47.91	82.60	34.69	1000.0	9.000	V	282.0	19.7
	0.263430	43.93	82.60	38.67	1000.0	9.000	V	161.0	19.7

Note.1 The worst case data were reported

And no other spurious and harmonic emissions were reported greater than listed emission above table

Note.2 "F"=Fundamental / "S"=Spurious / "*" = Noise Floor

Note.3 All measurements were recorded using a spectrum analyzer employing a Average detector for below 30 MHz

Note.4 Distance Correction Factor (D.C.F.)

For 30 m: $40\log(30/10) = 19.08 \text{ dB}$

Note.5 Sample calculation

Field Strength = Reading - D.C.F

Margin = Limit - Field Strength

Where, D.C.F = Distance Correction Factor

Note.6 "V1"= Vertical and perpendicular to the centerline / "V2"=vertical and parallel to the centerline

"H" = horizontal (parallel to the ground)

Note.7 Cooking element

"1"= front hob, "2"= rear hob

GETEC-QP-16-008 (Rev.01)

8. Sample Calculations

$$\begin{split} dB\mu V &= 20\ Log\ {}_{10}(\mu V/m) \\ dB\mu V &= dBm + 107 \\ \mu V &= 10\ {}^{(dB\mu V/20)} \end{split}$$

8.1 Example 1:

■ 20.3 MHz

Class B Limit $= 250 \mu V = 48 dB\mu V$

Reading = $39.2 dB\mu V$

 $10^{(39.2dB\mu V/20)} = 91.2 \mu V$

Margin = $48 dB\mu V - 39.2 dB\mu V$

= 8.8 dB

8.2 Example 2:

■ 66.7 MHz

Class B Limit = $100 \mu V/m = 40.0 dB \mu V/m$

Reading = $31.0 \text{ dB}\mu\text{V}$

Antenna Factor + Cable Loss = 5.8 dB

Total = $36.8 \text{ dB}\mu\text{V/m}$

Margin = $40.0 \text{ dB}\mu\text{V/m} - 36.8 \text{ dB}\mu\text{V/m}$

= 3.2 dB

9. Recommendation & Conclusion

The data collected shows that the **HOUSEHOLD DUAL FUEL RANGE(Model Name: SKSDR480SIS)** was complies with §18.305 and 18.307 of the FCC Rules.

- The end -