

# ***EVALUATION REPORT***

## ***for Certification of Conformity***

### ***FCC Part 18***

**Applicant: LG Electronics USA, Inc.**  
**111 Sylvan Avenue North Building**  
**Englewood Cliffs New Jersey United States 07632,**  
**Attn: David Kim / Team leader**

**Date of Issue: Dec. 27, 2023**  
**Order Number: GETEC-C1-23-980**  
**Test Report Number: GETEC-E3-23-100**  
**Test Site: GUMI UNIVERSITY EMC CENTER**  
**CAB Designation Number: KR0033**

**FCC ID. : BEJQ50941HA**  
**Applicant: LG Electronics USA, Inc.**

**Rule Part(s) : FCC Part 18**  
**Test Method : FCC/OET MP-5**  
**EUT Type : HOUSEHOLD COOKTOP**  
**Equipment Class : Part 18 Consumer Device(8CC)**  
**Type of Authority : Certification**  
**Model Name : CBIH3617BE**  
**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,**



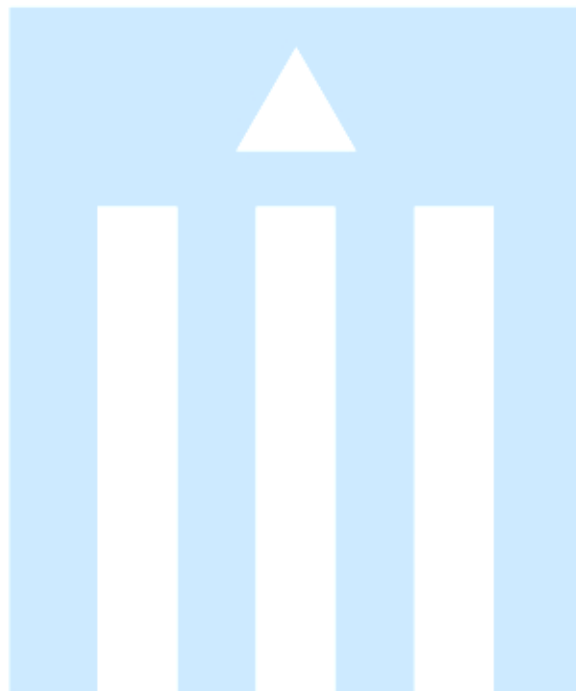
**Sung-Joo Park, Technical Manager  
GUMI UNIVERSITY EMC CENTER**



### Revision list

Test Report No.	Issue Date	Description
GETEC-E3-23-100	Dec. 27, 2023	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.**

**Manufacturer Address: 170, Sungsanpaechong-ro, Seongsan-gu, Changwon-si,  
Gyeongsangnam-do, 51533, Korea**

**Contact Person: David Kim / Team leader**

**Telephone Number: 1-201-266-2443**

● <b>FCC ID.</b>	BEJQ50941HA
● <b>EUT Type</b>	HOUSEHOLD COOKTOP
● <b>Model Name</b>	CBIH3617BE
● <b>Rule Part(s)</b>	FCC Part 18
● <b>Test Method</b>	FCC/OET MP-5
● <b>Type of Authority</b>	Certification
● <b>Test Procedure(s)</b>	FCC/OET MP-5
● <b>Dates of Test</b>	Dec. 15, 2023 ~ Dec. 18, 2023
● <b>Place of Test</b>	<b>GUMI UNIVERSITY EMC CENTER</b> (FCC Test Firm Registration Number: 269701) 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.
● <b>Test Report Number</b>	GETEC-E3-23-100
● <b>Dates of Issue</b>	Dec. 27, 2023



## 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 COOKTOP (Model name: CBIH3617BE)**.

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 (2014)

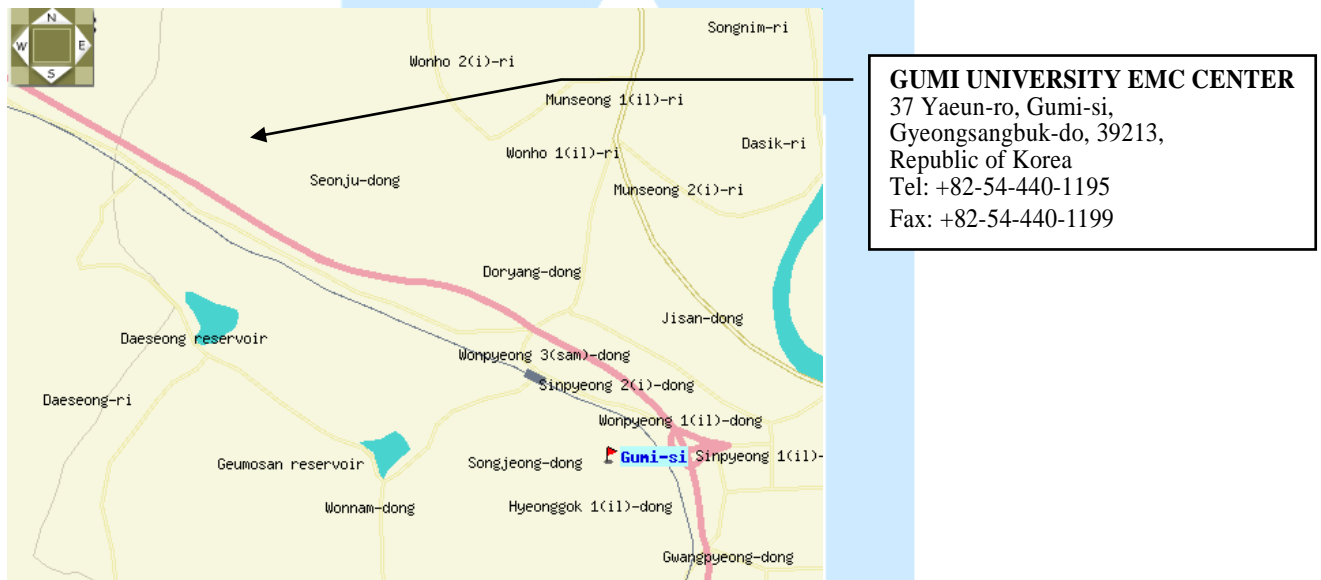


Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.



### 3. Product Information

#### 3.1 Description of EUT

The Equipment under Test (EUT) is the **LG Electronics USA, Inc. HOUSEHOLD COOKTOP (Model Name: CBIH3617BE)**  
**FCC ID.: BEJQ50941HA**

Models		CBIH3617BE
Description		Induction Cooktop
Electrical Specifications	Connection voltage	240/208 VAC 60 Hz., 44.2 A / 41.7 A
	Maximum connected power load	10600 W / 8670 W
Cooktop Dimensions		36 5/8" (930 mm) (W) × 3 11/16" (94 mm) (H) × 21 1/16" (534 mm) (D)
Countertop Cutout Dimensions		Standard Installation 33 7/8" (860 mm) (W) × 5 3/4" (146 mm) (H) × 19 1/8" (486 mm) (D)

Models		CBIH3617BE		
Cooking Zones	Position	Size	Power (Level 9 / Boost)	
	Front Left	8 1/2" x 7 1/4" (216.2 x 185 mm)	1513/3026W(208 V) 1850/3700W(240 V)	
	Front Right	7" (177.8 mm)	1472/2290W(208 V) 1800/2800W(240 V)	
	Flex Left	8 1/2" x 14 9/16" (216.2 x 370 mm)	2699/3026W(208 V) 3300/3700W(240 V)	
	Rear Left	8 1/2" x 7 1/4" (216.2 x 185 mm)	1513/3026W(208 V) 1850/3700W(240 V)	
	Rear Right	6" (152.4 mm)	1145/1472W(208 V) 1400/1800W(240 V)	
	Center	11 1/8", 7 1/16" (283, 180 mm)	Inner Burner: 1513/3026W(208 V) 1850/3700W(240 V) Dual Burner: 3026/4089W(208 V) 3700/5000W(240 V)	

#### RF Module Specifications

Type	Frequency Range	Output Power (Max)
Wi-Fi	2412 MHz - 2462 MHz	< 30 dBm
Bluetooth	2402 MHz - 2480 MHz	

#### Induction heating mode

Cooking Element	Low frequency (Maximum power)	High frequency (Minimum power)
#1 Front Left Hob	30 kHz	65 kHz
#2 Rear Left Hob	30 kHz	65 kHz
#3 Center	30 kHz	65 kHz
#4 Front Right Hob	30 kHz	65 kHz
#5 Rear Right Hob	30 kHz	65 kHz



### 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	LCWB-001	S/N: -. FCC ID.: BEJ-LCWB001

#### 3.3.3 Used Cable(s)

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

#### 3.3 Modification Item(s)

-. None



## 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 208V/ 60 Hz, AC 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 left hob ,”2”= rear left hob, “3”= Center hob, “4”= front right hob “5”= rear right hob

Cooking vessels

“1” , “2”= 215 mm

“3”= 300 mm

“4”= 180 mm

“5”= 145 mm

### 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 (2014) 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 (2014).

## 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 cm ~ 40 cm.

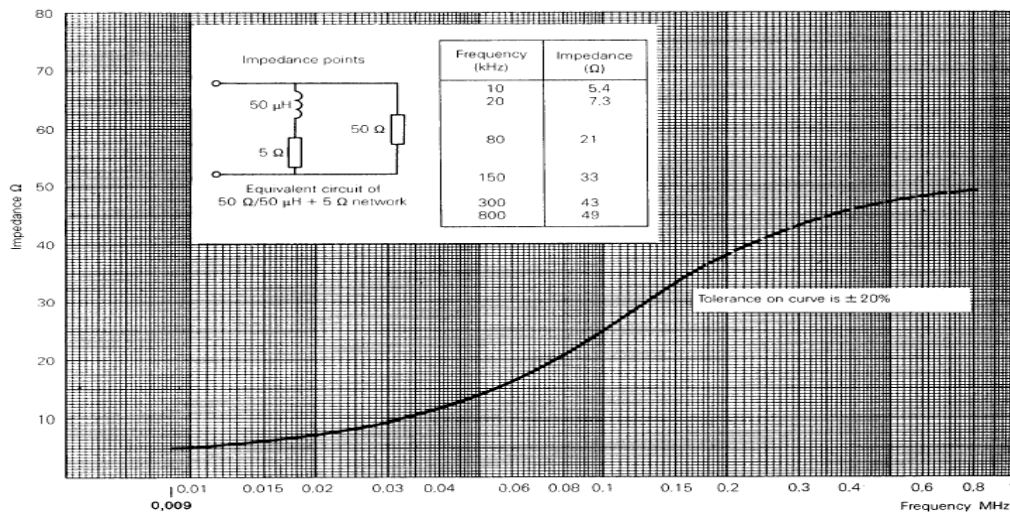


Fig 2. Impedance of LISN



### 6.1 Operating Environment

Temperature : 24.1 °C  
Relative Humidity : 34.1 %  
Air Pressure : 100.2 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

RFI Conducted	FCC Limit(dB $\mu$ V/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

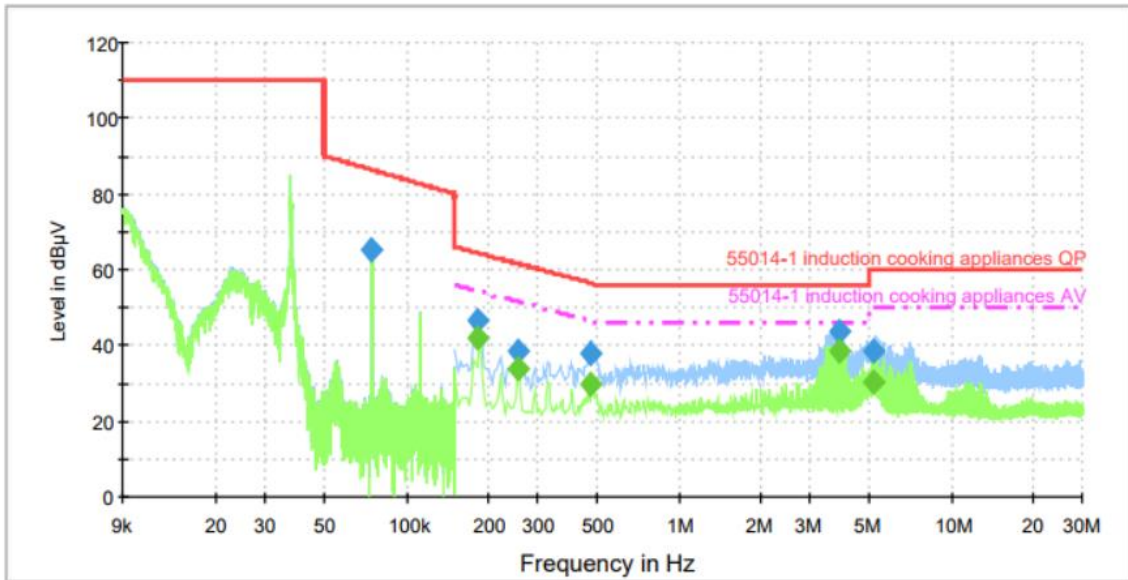
Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 05, 2023
□ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 05, 2023
□ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 05, 2023
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	Apr. 06, 2023
■ - VTSD 9561-D	SCHWARZBECK	Pulse Limiter	32	Apr. 06, 2023
■ - EMC 32	Rohde & Schwarz	Software	Ver.8.53	N/A

#### 6.6 Test data for Conducted Emission

- Test Date : Dec. 15, 2023
- Resolution Bandwidth : 200 Hz (9 kHz ~ 0.15 MHz) / 9 kHz (0.15 MHz ~ 30 MHz)
- Frequency Range : 9 kHz ~ 30 MHz
- Line : L1: Live, N: Neutral
- Comment : None



- Operating condition: Induction mode with WLAN
- AC 208 V / 60 Hz**  
**Cooking element #1**



— 55014-1 induction cooking appliances QP  
— Preview Result 1-PK+  
◆ Final Result 1-QPK  
- - - 55014-1 induction cooking appliances AV  
— Preview Result 2-AVG  
◆ Final Result 2-CAV

### Final Result 1

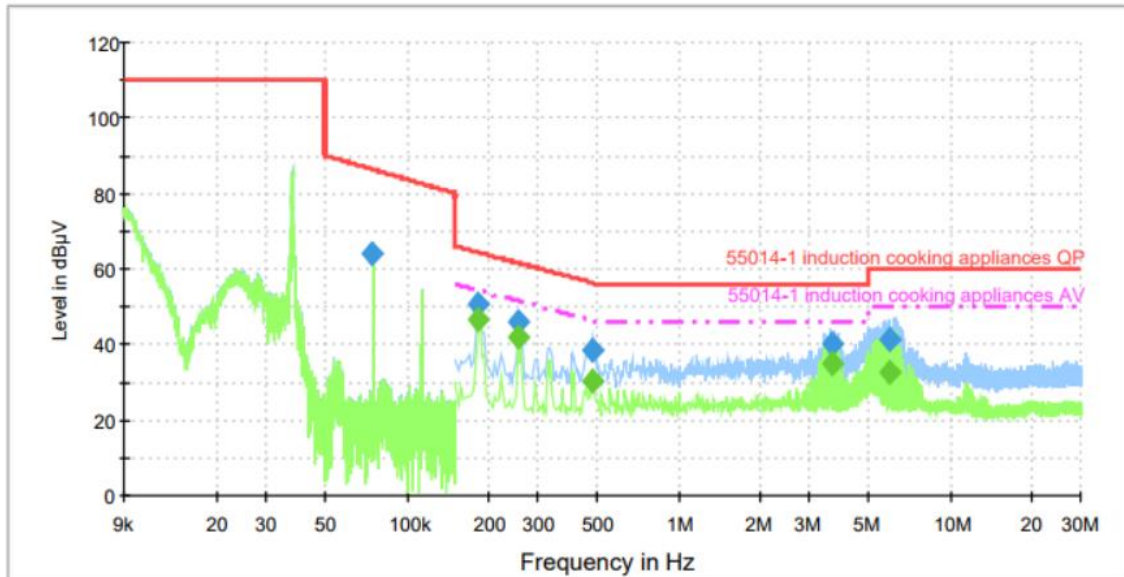
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.073706	65.3	1000.0	0.200	GND	L1	20.1	21.2	86.5	
0.182000	46.5	1000.0	9.000	GND	N	20.6	17.9	64.4	
0.253206	38.6	1000.0	9.000	GND	N	20.6	23.1	61.7	
0.473888	37.7	1000.0	9.000	GND	N	20.6	18.7	56.4	
3.827238	43.7	1000.0	9.000	GND	N	20.7	12.3	56.0	
5.183262	38.4	1000.0	9.000	GND	N	20.7	21.6	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	41.7	1000.0	9.000	GND	N	20.6	12.7	54.4	
0.253206	33.7	1000.0	9.000	GND	N	20.6	18.0	51.7	
0.473888	29.5	1000.0	9.000	GND	N	20.6	16.9	46.4	
3.827238	38.7	1000.0	9.000	GND	N	20.7	7.3	46.0	
5.183262	30.2	1000.0	9.000	GND	N	20.7	19.8	50.0	



**Cooking element #2**



- 55014-1 induction cooking appliances QP
- - - 55014-1 induction cooking appliances AV
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

**Final Result 1**

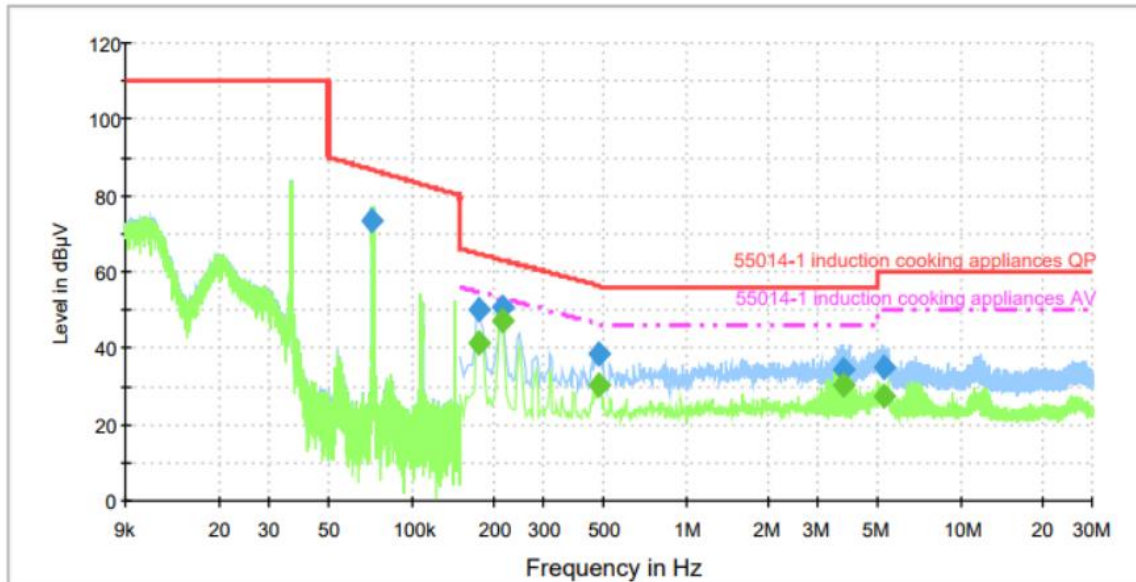
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.074181	64.1	1000.0	0.200	GND	N	20.1	22.3	86.4	
0.182000	50.7	1000.0	9.000	GND	N	20.6	13.7	64.4	
0.257475	45.7	1000.0	9.000	GND	N	20.6	15.8	61.5	
0.480812	38.2	1000.0	9.000	GND	N	20.6	18.1	56.3	
3.632138	40.5	1000.0	9.000	GND	L1	20.7	15.5	56.0	
5.953481	41.6	1000.0	9.000	GND	N	20.8	18.4	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	46.6	1000.0	9.000	GND	N	20.6	7.8	54.4	
0.257475	41.8	1000.0	9.000	GND	N	20.6	9.7	51.5	
0.480812	30.2	1000.0	9.000	GND	N	20.6	16.1	46.3	
3.632138	34.8	1000.0	9.000	GND	L1	20.7	11.2	46.0	
5.953481	32.4	1000.0	9.000	GND	N	20.8	17.6	50.0	



### Cooking element #3



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- ◆ Final Result 1-QPK
- - - 55014-1 induction cooking appliances AV
- Preview Result 2-AVG
- ◆ Final Result 2-CAV

### Final Result 1

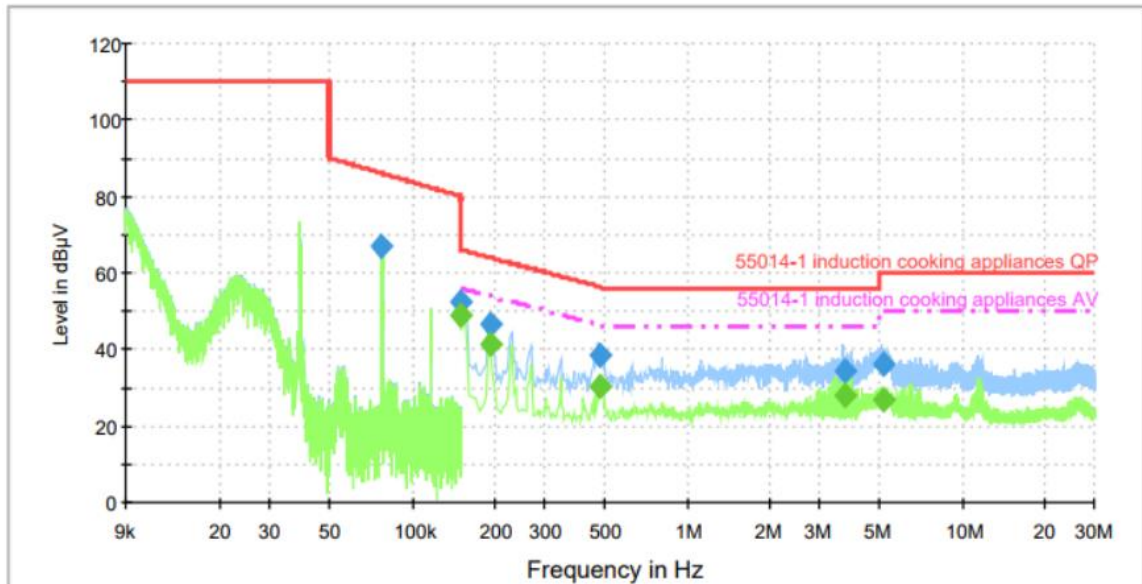
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.070850	73.1	1000.0	0.200	GND	N	20.1	13.7	86.8	
0.175415	50.0	1000.0	9.000	GND	N	20.6	14.7	64.7	
0.212700	50.8	1000.0	9.000	GND	L1	20.6	12.3	63.1	
0.480544	38.2	1000.0	9.000	GND	N	20.6	18.1	56.3	
3.739806	34.6	1000.0	9.000	GND	L1	20.7	21.4	56.0	
5.201919	35.1	1000.0	9.000	GND	L1	20.8	24.9	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.175415	41.3	1000.0	9.000	GND	N	20.6	13.4	54.7	
0.212700	47.3	1000.0	9.000	GND	L1	20.6	5.8	53.1	
0.480544	30.1	1000.0	9.000	GND	N	20.6	16.2	46.3	
3.739806	30.3	1000.0	9.000	GND	L1	20.7	15.7	46.0	
5.201919	27.2	1000.0	9.000	GND	L1	20.8	22.8	50.0	



**Cooking element #4**



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- ◆ Final Result 1-QPK
- - - 55014-1 induction cooking appliances AV
- Preview Result 2-AVG
- ◆ Final Result 2-CAV

**Final Result 1**

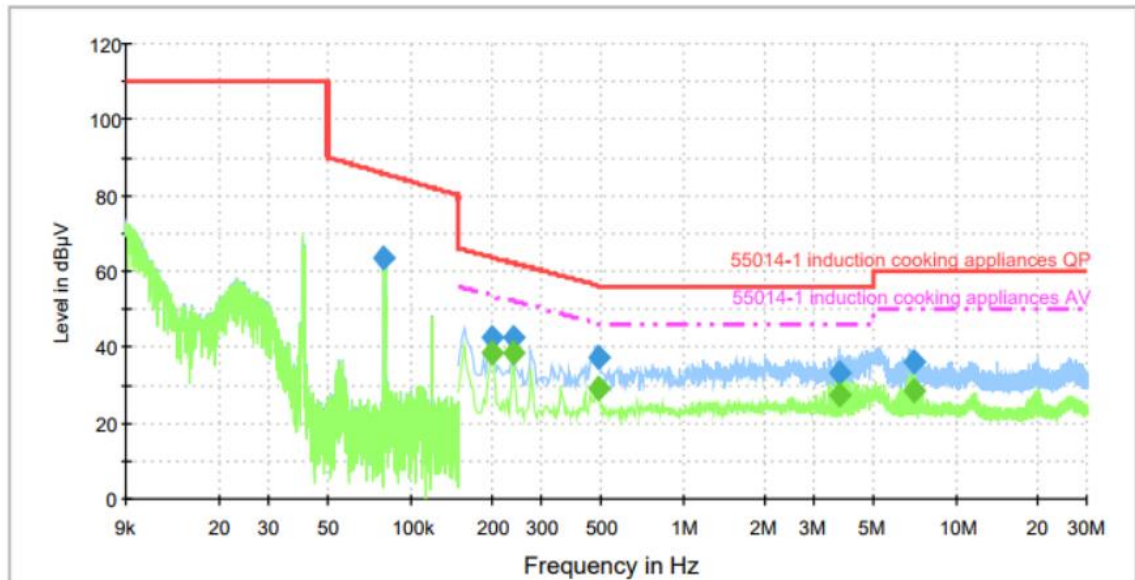
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.076226	66.7	1000.0	0.200	GND	N	20.1	19.5	86.2	
0.150000	52.7	1000.0	0.200	GND	L1	20.3	27.3	80.0	
0.191356	46.3	1000.0	9.000	GND	L1	20.6	17.7	64.0	
0.481081	38.6	1000.0	9.000	GND	N	20.6	17.7	56.3	
3.695300	34.3	1000.0	9.000	GND	N	20.7	21.7	56.0	
5.117444	36.3	1000.0	9.000	GND	N	20.7	23.7	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	48.7	1000.0	9.000	GND	L1	20.6	7.3	56.0	
0.191356	41.4	1000.0	9.000	GND	L1	20.6	12.6	54.0	
0.481081	30.0	1000.0	9.000	GND	N	20.6	16.3	46.3	
3.695300	27.9	1000.0	9.000	GND	N	20.7	18.1	46.0	
5.117444	27.0	1000.0	9.000	GND	N	20.7	23.0	50.0	



**Cooking element #5**



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- ◆ Final Result 1-QPK
- - - 55014-1 induction cooking appliances AV
- Preview Result 2-AVG
- ◆ Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.079575	63.4	1000.0	0.200	GND	L1	20.2	22.4	85.8	
0.198000	42.4	1000.0	9.000	GND	L1	20.6	21.3	63.7	
0.237020	42.3	1000.0	9.000	GND	L1	20.6	19.9	62.2	
0.484812	37.5	1000.0	9.000	GND	N	20.6	18.8	56.3	
3.717419	33.2	1000.0	9.000	GND	L1	20.7	22.8	56.0	
7.039575	36.3	1000.0	9.000	GND	L1	20.8	23.7	60.0	

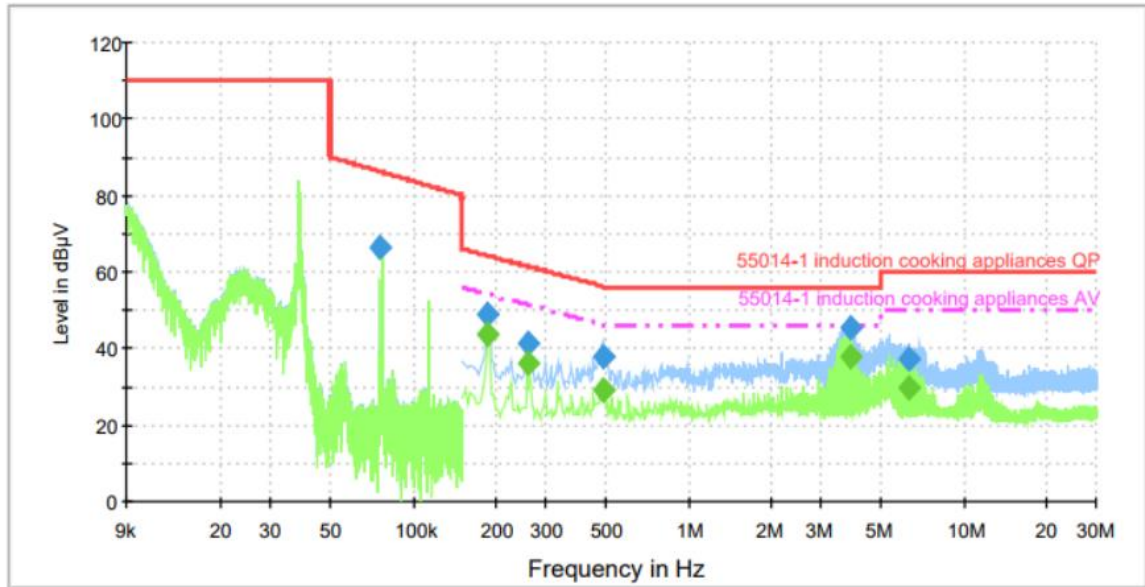
**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.198000	38.7	1000.0	9.000	GND	L1	20.6	15.0	53.7	
0.237020	38.6	1000.0	9.000	GND	L1	20.6	13.7	52.2	
0.484812	29.4	1000.0	9.000	GND	N	20.6	16.9	46.3	
3.717419	27.1	1000.0	9.000	GND	L1	20.7	18.9	46.0	
7.039575	28.5	1000.0	9.000	GND	L1	20.8	21.5	50.0	





**AC 240 V / 60 Hz**  
**Cooking element #1**



- 55014-1 induction cooking appliances QP
- - - 55014-1 induction cooking appliances AV
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

**Final Result 1**

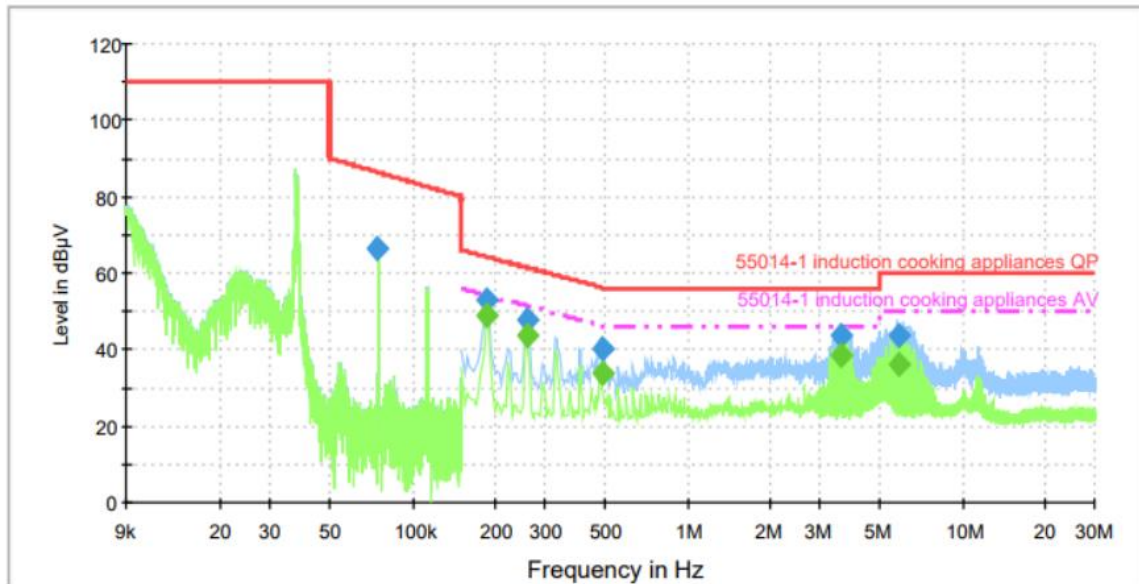
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.075732	66.3	1000.0	0.200	GND	L1	20.1	19.9	86.2	
0.186000	48.7	1000.0	9.000	GND	N	20.6	15.5	64.2	
0.261206	41.4	1000.0	9.000	GND	N	20.6	20.0	61.4	
0.484544	37.8	1000.0	9.000	GND	N	20.6	18.5	56.3	
3.829862	45.4	1000.0	9.000	GND	N	20.7	10.6	56.0	
6.261594	37.2	1000.0	9.000	GND	N	20.8	22.8	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	43.5	1000.0	9.000	GND	N	20.6	10.7	54.2	
0.261206	36.2	1000.0	9.000	GND	N	20.6	15.2	51.4	
0.484544	29.0	1000.0	9.000	GND	N	20.6	17.3	46.3	
3.829862	37.6	1000.0	9.000	GND	N	20.7	8.4	46.0	
6.261594	29.5	1000.0	9.000	GND	N	20.8	20.5	50.0	



**Cooking element #2**



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- Preview Result 2-AVG
- - - 55014-1 induction cooking appliances AV
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

**Final Result 1**

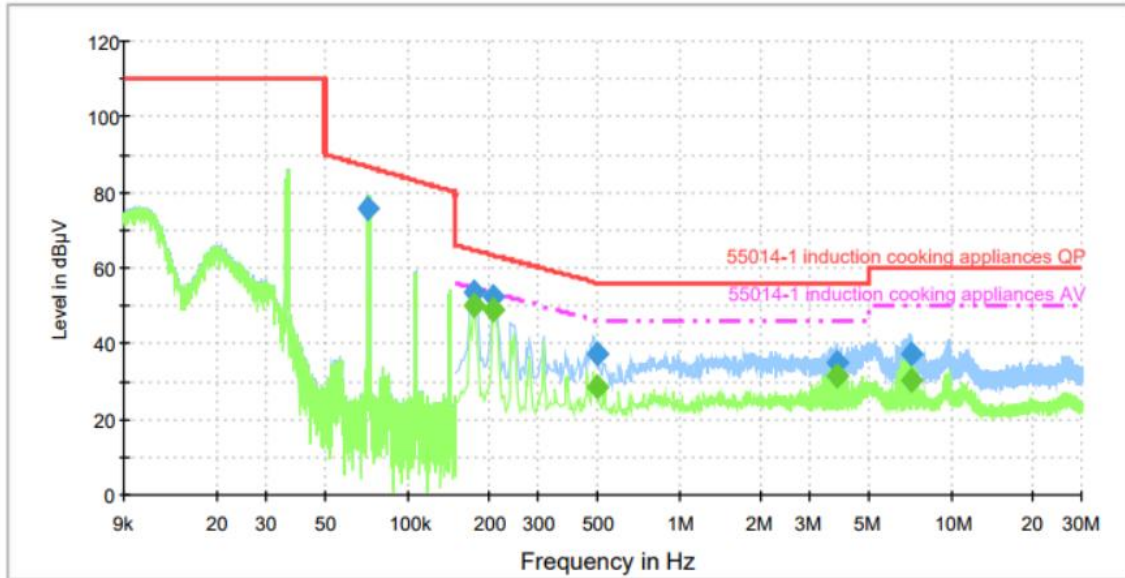
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.074270	66.5	1000.0	0.200	GND	L1	20.1	19.9	86.4	
0.186000	53.3	1000.0	9.000	GND	N	20.6	10.9	64.2	
0.261475	47.8	1000.0	9.000	GND	N	20.6	13.6	61.4	
0.485350	40.3	1000.0	9.000	GND	N	20.6	15.9	56.2	
3.623331	43.9	1000.0	9.000	GND	N	20.7	12.1	56.0	
5.787456	43.7	1000.0	9.000	GND	L1	20.8	16.3	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	48.7	1000.0	9.000	GND	N	20.6	5.5	54.2	
0.261475	43.5	1000.0	9.000	GND	N	20.6	7.9	51.4	
0.485350	33.7	1000.0	9.000	GND	N	20.6	12.5	46.2	
3.623331	38.7	1000.0	9.000	GND	N	20.7	7.3	46.0	
5.787456	36.3	1000.0	9.000	GND	L1	20.8	13.7	50.0	



### Cooking element #3



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV
- - - 55014-1 induction cooking appliances AV

### Final Result 1

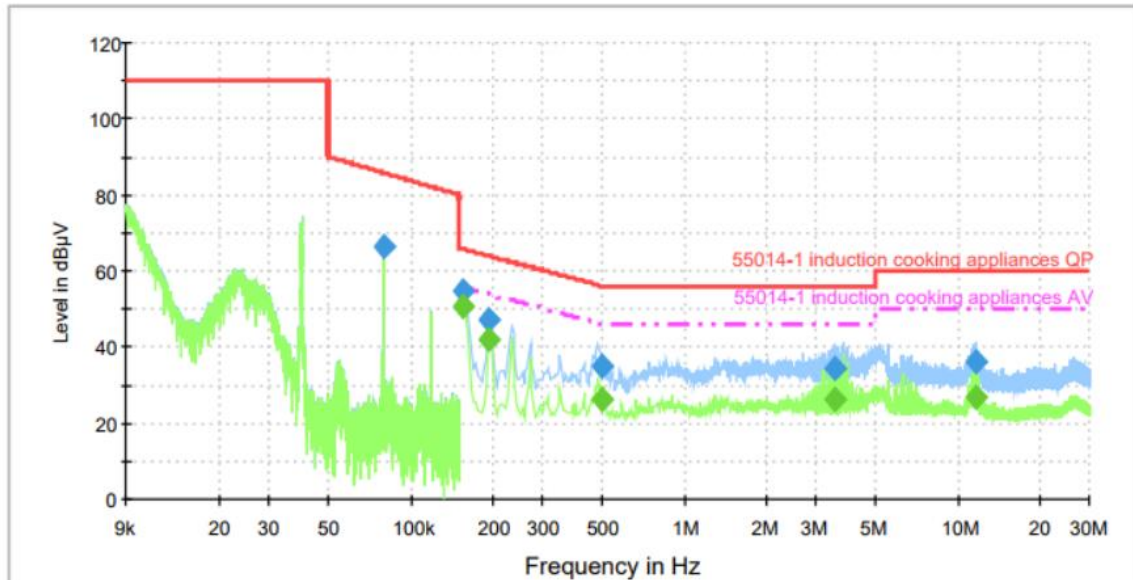
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.071273	75.7	1000.0	0.200	GND	L1	20.1	11.1	86.8	
0.175415	53.4	1000.0	9.000	GND	N	20.6	11.3	64.7	
0.205135	52.2	1000.0	9.000	GND	L1	20.6	11.2	63.4	
0.493081	37.0	1000.0	9.000	GND	L1	20.6	19.1	56.1	
3.814162	35.0	1000.0	9.000	GND	L1	20.7	21.0	56.0	
7.132825	37.1	1000.0	9.000	GND	L1	20.8	22.9	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.175415	49.9	1000.0	9.000	GND	N	20.6	4.8	54.7	
0.205135	49.2	1000.0	9.000	GND	L1	20.6	4.2	53.4	
0.493081	28.6	1000.0	9.000	GND	L1	20.6	17.5	46.1	
3.814162	31.3	1000.0	9.000	GND	L1	20.7	14.7	46.0	
7.132825	30.0	1000.0	9.000	GND	L1	20.8	20.0	50.0	



### Cooking element #4



- 55014-1 induction cooking appliances QP
- - - 55014-1 induction cooking appliances AV
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

### Final Result 1

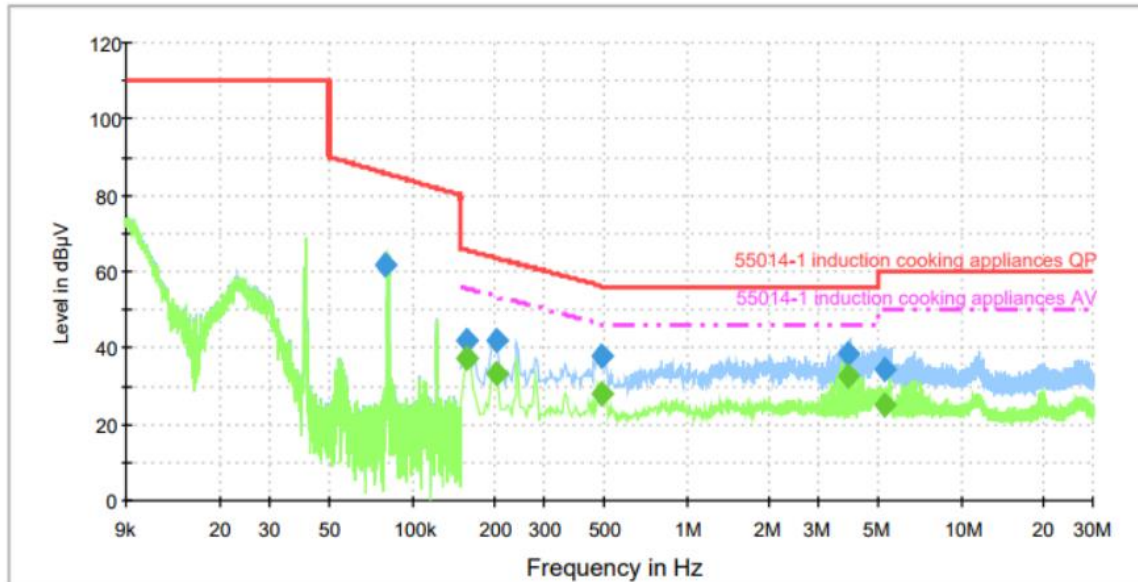
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.079918	66.3	1000.0	0.200	GND	L1	20.2	19.4	85.7	
0.154000	54.9	1000.0	9.000	GND	L1	20.6	10.9	65.8	
0.193150	46.9	1000.0	9.000	GND	L1	20.6	17.0	63.9	
0.501081	35.0	1000.0	9.000	GND	L1	20.6	21.0	56.0	
3.538856	34.1	1000.0	9.000	GND	N	20.7	21.9	56.0	
11.531162	35.9	1000.0	9.000	GND	N	20.8	24.1	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.154000	50.7	1000.0	9.000	GND	L1	20.6	5.1	55.8	
0.193150	41.7	1000.0	9.000	GND	L1	20.6	12.2	53.9	
0.501081	26.5	1000.0	9.000	GND	L1	20.6	19.5	46.0	
3.538856	26.1	1000.0	9.000	GND	N	20.7	19.9	46.0	
11.531162	27.0	1000.0	9.000	GND	N	20.8	23.0	50.0	



**Cooking element #5**



- 55014-1 induction cooking appliances QP
- - - 55014-1 induction cooking appliances AV
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.079768	61.8	1000.0	0.200	GND	L1	20.2	23.9	85.7	
0.158000	41.8	1000.0	9.000	GND	L1	20.6	23.8	65.6	
0.201506	42.2	1000.0	9.000	GND	N	20.6	21.3	63.5	
0.488812	37.8	1000.0	9.000	GND	L1	20.6	18.4	56.2	
3.862906	38.4	1000.0	9.000	GND	N	20.7	17.6	56.0	
5.200306	34.3	1000.0	9.000	GND	N	20.7	25.7	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.158000	37.5	1000.0	9.000	GND	L1	20.6	18.1	55.6	
0.201506	33.2	1000.0	9.000	GND	N	20.6	20.3	53.5	
0.488812	27.7	1000.0	9.000	GND	L1	20.6	18.5	46.2	
3.862906	32.5	1000.0	9.000	GND	N	20.7	13.5	46.0	
5.200306	25.0	1000.0	9.000	GND	N	20.7	25.0	50.0	



## 7. Radiated Emission

### 7.1 Operating Environment

Temperature : 21.8 °C  
Relative Humidity : 32.4 %  
Air Pressure : 100.2 kPa

### 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.

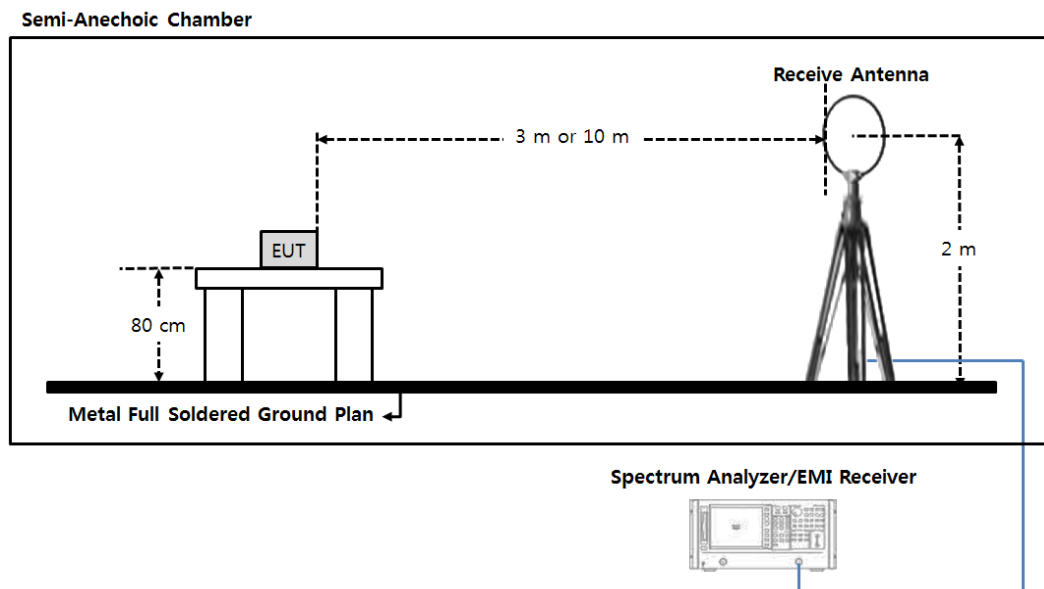


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

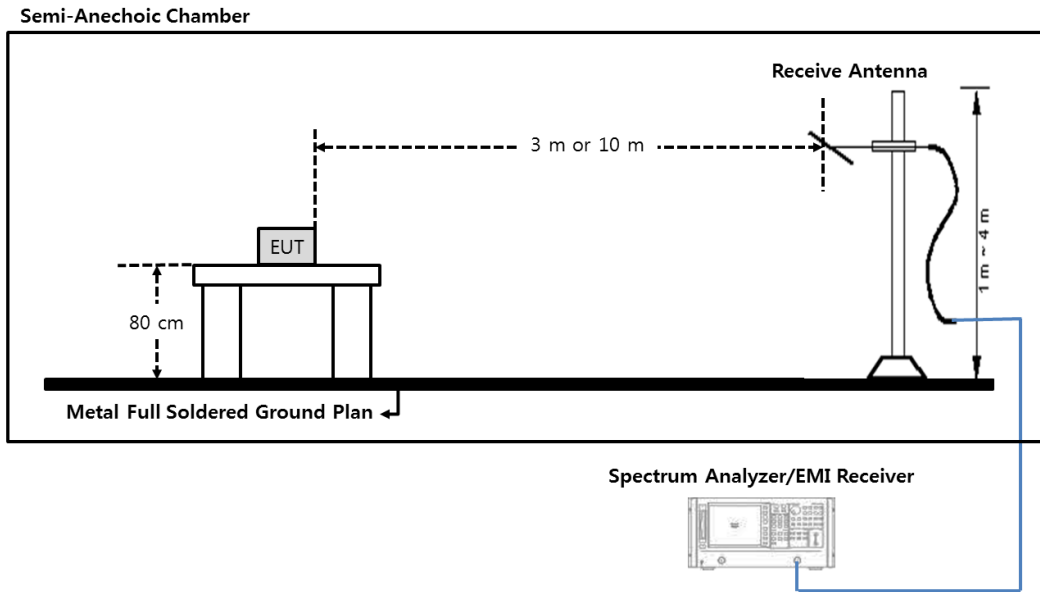


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)



### 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 $25 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz	Any	10	1,600
	Above 5,725 MHz	Any	(2)	(2)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/\text{F}(\text{kHz})$ $2,400/\text{F}(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 <sup>3</sup> 300
	490 to 1,600 kHz	Any	$24,000/\text{F}(\text{kHz})$	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	<sup>4</sup> 30
	On or above 90 kHz	Any	300	<sup>4</sup> 30

Note.

- 1) Field strength may not exceed 10 μV/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 μV/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 50314/L	N/A
■ - 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.



### 7.6 Test data for Radiated Emission

- Test Date : Dec. 17, 2023 ~ Dec, 18, 2023
- 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

- Measurement Data: Induction mode with WLAN  
 [AC 208V, 60 Hz]

#### Cooking Element #1

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] at 10 m	D.C.F	Field Strength [dBuV/m] at 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.73	19.08	31.65	82.60	63.52	31.87
F	0.036	Average	H	72.45	19.08	53.37			10.15
S	0.073	Average	V	47.67	19.08	28.59			34.93
S	0.109	Average	H	45.43	19.08	26.35			37.17
S	0.172	Average	V	41.19	19.08	22.11			41.41
S	0.258	Average	V	36.96	19.08	17.88			45.64

#### Cooking Element #2

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.32	19.08	31.24	82.60	63.52	32.28
F	0.037	Average	H	78.21	19.08	59.13			4.39
S	0.074	Average	H	48.63	19.08	29.55			33.97
S	0.112	Average	H	54.34	19.08	35.26			28.26
S	0.172	Average	H	47.87	19.08	28.79			34.73
S	0.258	Average	H	43.33	19.08	24.25			39.27



Cooking Element #3

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.25	19.08	31.17	82.60	63.52	32.35
F	0.036	Average	H	77.21	19.08	58.13			5.39
S	0.072	Average	H	53.39	19.08	34.31			29.21
S	0.109	Average	H	54.10	19.08	35.02			28.50
S	0.172	Average	H	48.86	19.08	29.78			33.74
S	0.215	Average	H	39.51	19.08	20.43			43.09

Cooking Element #4

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.77	19.08	31.69	82.60	63.52	31.83
F	0.038	Average	H	78.35	19.08	59.27			4.25
S	0.076	Average	H	45.44	19.08	26.36			37.16
S	0.114	Average	H	51.98	19.08	32.90			30.62
S	0.172	Average	H	41.60	19.08	22.52			41.00
S	0.258	Average	H	38.57	19.08	19.49			44.03

Cooking Element #5

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.60	19.08	31.52	82.60	63.52	32.00
F	0.042	Average	H	74.82	19.08	55.74			7.78
S	0.084	Average	H	41.91	19.08	22.83			40.69
S	0.126	Average	H	56.70	19.08	37.62			25.90
S	0.215	Average	H	46.68	19.08	27.60			35.92
S	0.301	Average	V	39.94	19.08	20.86			42.66



[AC 240V, 60 Hz]

Cooking Element #1

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] at 10 m	D.C.F	Field Strength [dBuV/m] at 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	49.09	19.08	30.01	82.60	63.52	33.51
F	0.038	Average	V	77.88	19.08	58.80			4.72
S	0.076	Average	V	45.64	19.08	26.56			36.96
S	0.114	Average	V	48.60	19.08	29.52			34.00
S	0.172	Average	H	42.56	19.08	23.48			40.04
S	0.258	Average	V	39.94	19.08	20.86			42.66

Cooking Element #2

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] at 10 m	D.C.F	Field Strength [dBuV/m] at 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	49.73	19.08	30.65	82.60	63.52	32.87
F	0.038	Average	H	78.15	19.08	59.07			4.45
S	0.076	Average	V	46.57	19.08	27.49			36.03
S	0.115	Average	V	54.22	19.08	35.14			28.38
S	0.172	Average	H	45.15	19.08	26.07			37.45
S	0.344	Average	H	39.02	19.08	19.94			43.58

Cooking Element #3

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
F	0.036	Average	H	78.06	19.08	58.98	82.60	63.52	4.54
S	0.073	Average	H	54.38	19.08	35.30			28.22
S	0.109	Average	H	56.97	19.08	37.89			25.63
S	0.145	Average	H	41.31	19.08	22.23			41.29
S	0.172	Average	H	47.98	19.08	28.90			34.62
S	0.258	Average	V	40.72	19.08	21.64			41.88



Cooking Element #4

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.12	19.08	31.04	82.60	63.52	32.48
F	0.039	Average	H	77.56	19.08	58.48			5.04
S	0.078	Average	H	45.53	19.08	26.45			37.07
S	0.117	Average	H	55.39	19.08	36.31			27.21
S	0.215	Average	H	44.93	19.08	25.85			37.67
S	0.258	Average	H	41.35	19.08	22.27			41.25

Cooking Element #5

Note.2	Frequency [MHz]	Detector mode	ANT Pol	Reading [dBuV] At 10 m	D.C.F	Field Strength [dBuV/m] At 30 m	Limits [dBuV/m]		Margin [dB]
							10 m	30 m	
S	0.020	Average	H	50.36	19.08	31.28	82.60	63.52	32.24
F	0.043	Average	H	76.48	19.08	57.40			6.12
S	0.086	Average	H	42.01	19.08	22.93			40.59
S	0.128	Average	H	57.40	19.08	38.32			25.20
S	0.215	Average	H	47.66	19.08	28.58			34.94
S	0.301	Average	H	41.15	19.08	22.07			41.45

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:  $40\log(30/10) = 19.08$  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 left hob , "2"= rear left hob, "3"= Center hob, "4"= front right hob "5"= rear right hob



## 8. Sample Calculations

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

### 8.1 Example 1 :

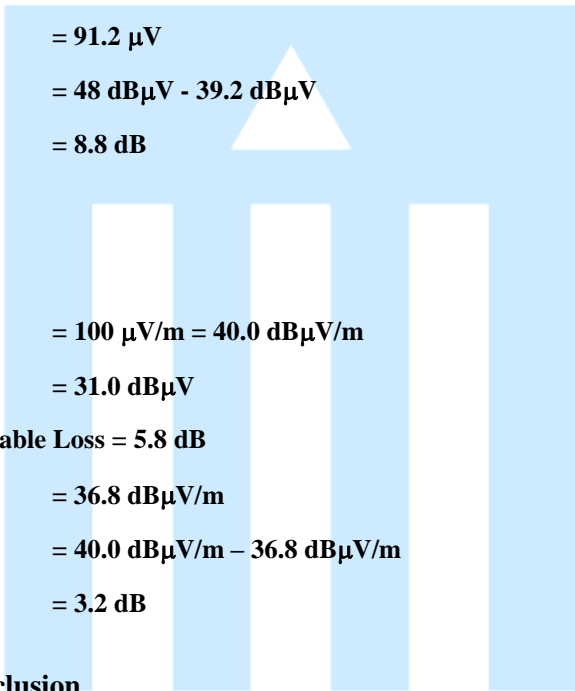
#### ■ 20.3 MHz

**Class B Limit** = 250  $\mu\text{V}$  = 48  $\text{dB}\mu\text{V}$

**Reading** = 39.2  $\text{dB}\mu\text{V}$

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

**Margin** = 48  $\text{dB}\mu\text{V}$  - 39.2  $\text{dB}\mu\text{V}$   
 = 8.8  $\text{dB}$



### 8.2 Example 2 :

#### ■ 66.7 MHz

**Class B Limit** = 100  $\mu\text{V}/\text{m}$  = 40.0  $\text{dB}\mu\text{V}/\text{m}$

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

**Antenna Factor + Cable Loss** = 5.8  $\text{dB}$

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

**Margin** = 40.0  $\text{dB}\mu\text{V}/\text{m}$  - 36.8  $\text{dB}\mu\text{V}/\text{m}$   
 = 3.2  $\text{dB}$

## 9. Recommendation & Conclusion

The data collected shows that the **HOUSEHOLD COOKTOP (Model Name: CBIH3617BE)** was complies with § 18.305 and 18.307 of the FCC Rules.

- The end -