

# ***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: Oct. 07, 2024**  
**Order Number: GETEC-C1-24-712**  
**Test Report Number: GETEC-E3-24-129**  
**Test Site: GUMI UNIVERSITY EMC CENTER**  
**CAB Designation Number: KR0033**

<b>FCC ID. :</b>	<b>BEJQ50941E</b>
<b>Applicant:</b>	<b>LG Electronics USA, Inc.</b>

<b>Rule Part(s)</b>	<b>: FCC Part 18</b>
<b>Test Method</b>	<b>: FCC/OET MP-5</b>
<b>EUT Type</b>	<b>: HOUSEHOLD COOKTOP</b>
<b>Equipment Class</b>	<b>: Part 18 Consumer Device(8CC)</b>
<b>Type of Authority</b>	<b>: Certification</b>
<b>Model Name</b>	<b>: SKSIT3601G</b>
<b>Family Name</b>	<b>: SKSIT3601GE</b>
<b>Trade Mark</b>	<b>: LG</b>

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,



Reviewed by,



**Tak Dong Kim, Associate Engineer**  
**GUMI UNIVERSITY EMC CENTER**

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

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

EMC CENTER

This test report only contains the result of a specific sample supplied by applicant for the testing.  
It is not allowed to copy this report even partly without the approval of EMC center



### Revision list

Test Report No.	Issue Date	Description
GETEC-E3-24-129	Oct. 07, 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.**

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

**Manufacturer: Shinsung Delta Tech Co., LTD.**

**1. Manufacturer Address: 39, Gongdan-ro 271 beon-gil, Seongsan-gu, Changwon-si,  
Gyeongsangnam-do, 51558, Korea**

**2. Manufacturer Address: Standard Factory 6, 200 Free Trade 3-gil, Masanhoewon-gu,  
Changwon-si, Gyeongsangnam-do, 51340, Korea**

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

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



- **FCC ID.** BEJQ50941E
- **EUT Type** HOUSEHOLD COOKTOP
- **Model Name** SKSIT3601G
- **Family Name** SKSIT3601GE
- **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** Sep. 27, 2024 ~ Oct. 03, 2024
- **Place of Test**  
**GUMI UNIVERSITY EMC CENTER**  
(FCC Test Firm Registration Number: 269701)  
(ISED Test Site Registration Number: 7920A)  
37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.
- **Test Report Number** GETEC-E3-24-129
- **Dates of Issue** Oct. 07, 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 C63.4-2017) was used in determining radiated and conducted emissions emanating from **HOUSEHOLD COOKTOP (Model name: SKSIT3601G)**.

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)

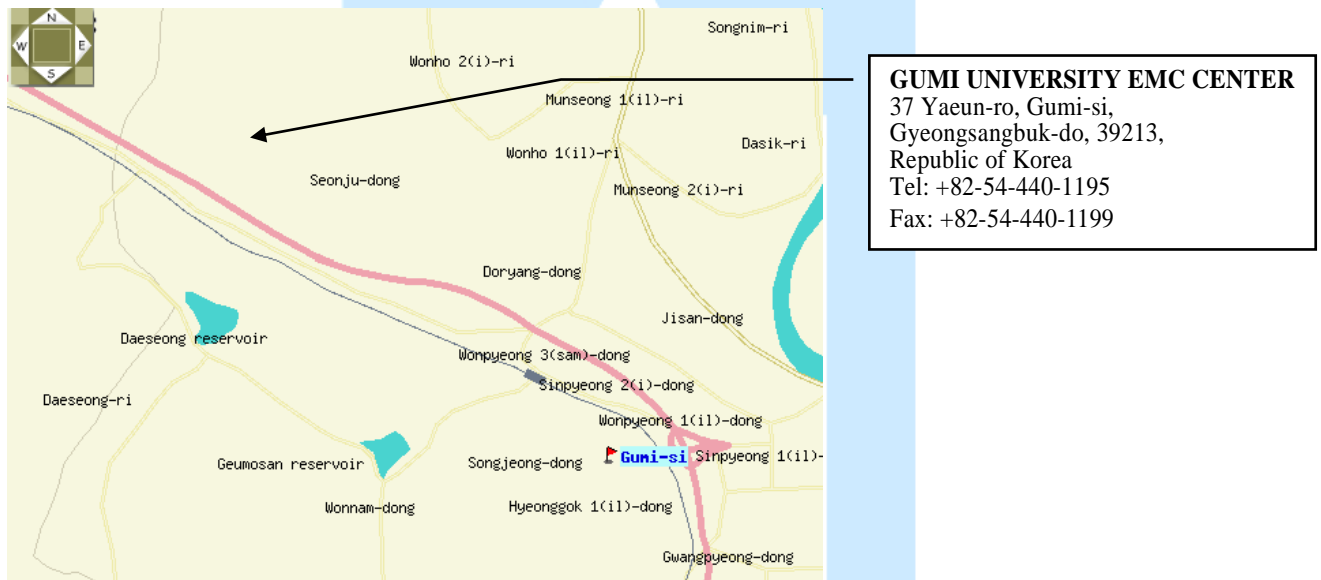


Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.



### 3. Product Information

#### 3.1 Description of EUT

The Equipment under Test (EUT) is the **HOUSEHOLD COOKTOP (Model Name: SKSIT3601G)**  
**FCC ID.: BEJQ50941E**

<b>Description</b>		Induction Cooktop		
<b>Electrical Specifications</b>	<b>Connection voltage</b>	240/208 VAC 60 Hz., 46.3 A / 43.3 A		
	<b>Maximum connected power load</b>	11100 W / 9000 W		
<b>Cooktop Dimensions</b>		36 5/8" (930 mm) (W) × 3 9/16" (91 mm) (H) × 21 1/16" (535 mm) (D)		
<b>Countertop Cutout Dimensions</b>		Standard Installation 34 3/8" (873 mm) (W) × 5 5/8" (142 mm) (H) × 19 13/16" (503 mm) (D) Flush Installation 36 7/8" (936 mm) (W) × 5 3/4" (146 mm) (H) × 21 5/16" (541 mm) (D)		
<b>Cooking Zones</b>	<b>Position</b>	<b>Size</b>	<b>Power (Level 9 / Boost)</b>	
	Front Left	8 1/2" x 7 1/8" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)	
	Front Right	8 1/2" x 7 1/8" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)	
	Rear Left	8 1/2" x 7 1/8" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)	
	Rear Right	8 1/2" x 7 1/8" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)	
	Flex Left	8 1/2" x 14 3/16" (216 mm x 360 mm)	2700/3000 W (208 V) 3300/3700 W (240 V)	
	Flex Right	8 1/2" x 14 3/16" (216 mm x 360 mm)	2700/3000 W (208 V) 3300/3700 W (240 V)	
	Center	11" / 7" (280 mm / 178 mm)	Inner Burner: 1500/3000 W (208 V) 1850/3700 W (240 V) Dual Burner: 3000/5700 W (208 V) 3700/7000 W (240 V)	

#### RF Module Specifications

<b>Frequency Range</b>	2412 MHz - 2462 MHz
<b>Output Power (Max)</b>	< 30 dBm

#### Induction heating mode

Cooking Element	Low frequency (Maximum power)	High frequency (Minimum power)
#1 Left Front Hob	30 kHz	65 kHz
#2 Left Rear Hob	30 kHz	65 kHz
#3 Center	30 kHz	65 kHz
#4 Right Front Hob	30 kHz	65 kHz
#5 Right Rear 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 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 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”= left front hob ,”2”= left rear hob, “3”= Center hob, “4”= right front hob, “5”= right rear hob  
 Cooking vessels  
 “1” , “2” ,”4” , “5”= 215 mm  
 “3”= 300 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 (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 cm ~ 40 cm.

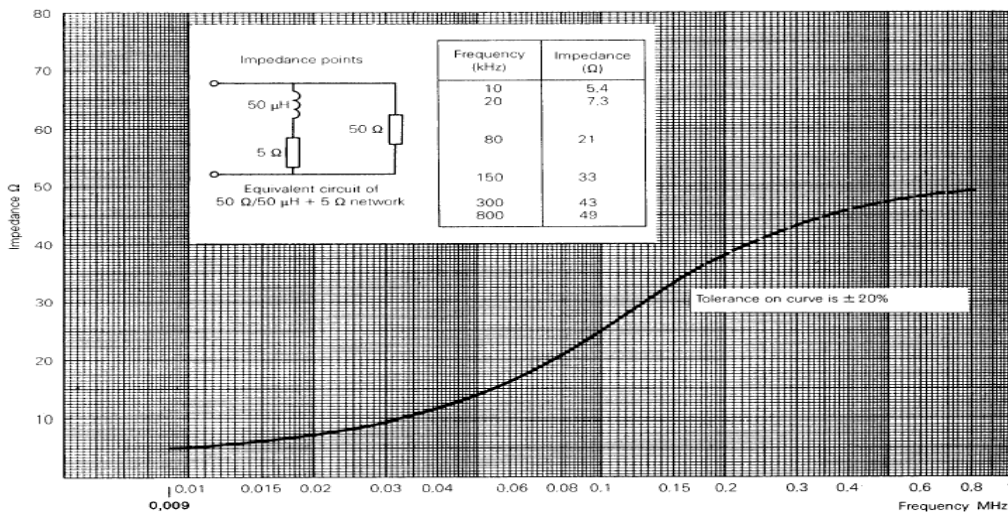


Fig 2. Impedance of LISN



### 6.1 Operating Environment

Temperature : 23.6 °C  
Relative Humidity : 67.4 %  
Air Pressure : 100.5 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)	3.83 dB	Confidence level of approximately 95 % ( $k = 2$ )
Conducted emission (150 kHz ~ 30 MHz)	3.44 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)	
	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**

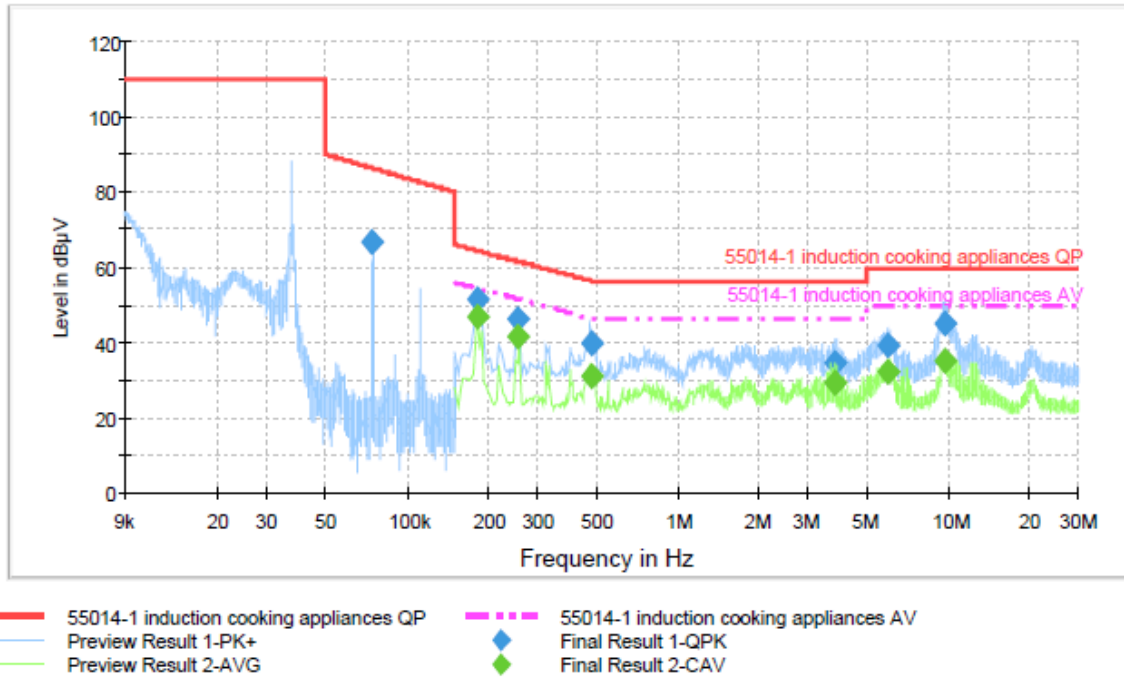
Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 03, 2024
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	Apr. 04, 2024
■ - VTSD 9561-D	SCHWARZBECK	Pulse Limiter	32	Apr. 04, 2024
■ - EMC 32	Rohde & Schwarz	Software	Ver.8.53	N/A

**6.6 Test data for Conducted Emission**

- Test Date : Sep. 27, 2024 ~ Sep. 28, 2024
- 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, L2: Live
- Comment : None



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



### Final Result 1

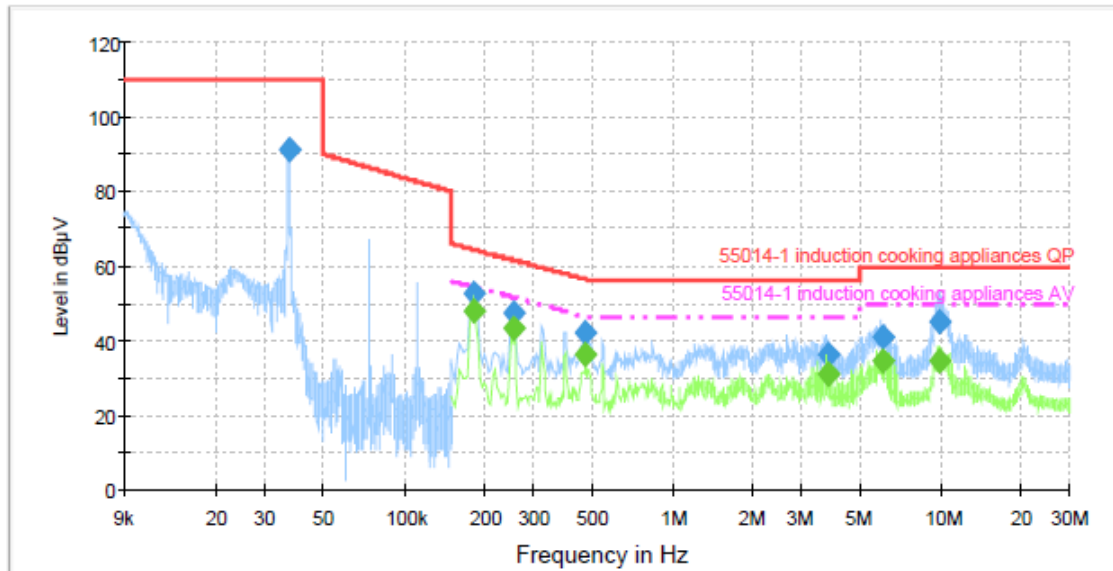
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.073600	67.0	1000.0	0.200	GND	L1	20.2	19.5	86.5	
0.182000	51.7	1000.0	9.000	GND	L1	20.7	12.7	64.4	
0.256938	46.5	1000.0	9.000	GND	L1	20.7	15.1	61.5	
0.477350	39.7	1000.0	9.000	GND	L1	20.7	16.7	56.4	
3.774162	34.5	1000.0	9.000	GND	L1	20.8	21.5	56.0	
5.971362	38.9	1000.0	9.000	GND	L1	20.8	21.1	60.0	
9.628494	44.9	1000.0	9.000	GND	L3	20.8	15.1	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	46.5	1000.0	9.000	GND	L1	20.7	7.8	54.4	
0.256938	41.7	1000.0	9.000	GND	L1	20.7	9.8	51.5	
0.477350	31.3	1000.0	9.000	GND	L1	20.7	15.1	46.4	
3.774162	29.2	1000.0	9.000	GND	L1	20.8	16.8	46.0	
5.971362	32.1	1000.0	9.000	GND	L1	20.8	17.9	50.0	
9.628494	35.3	1000.0	9.000	GND	L3	20.8	14.7	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**

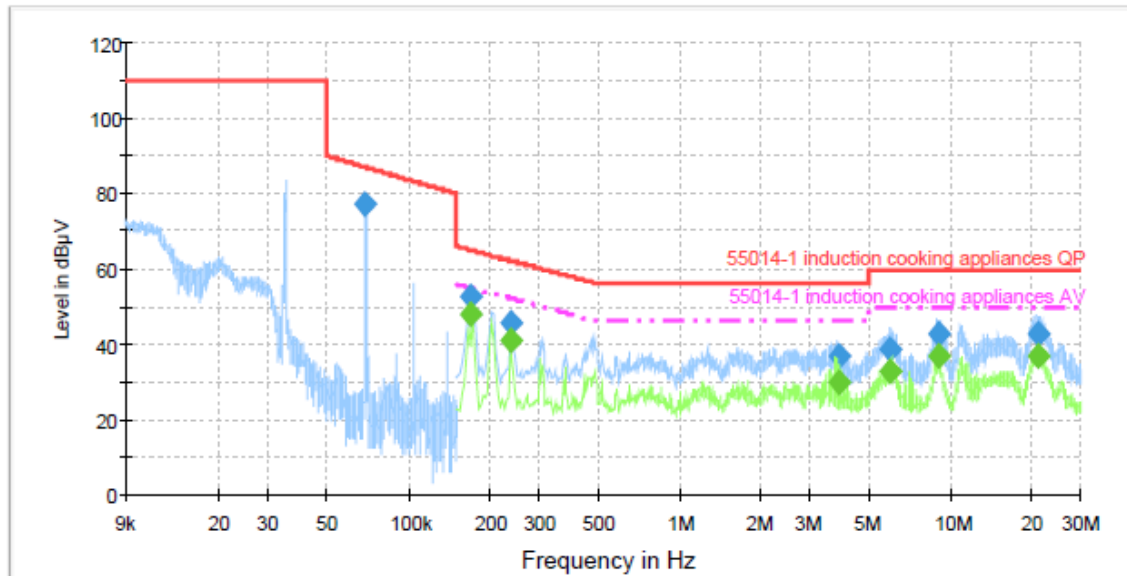
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.037590	91.2	1000.0	0.200	GND	L1	19.7	18.8	110.0	
0.182000	52.5	1000.0	9.000	GND	L1	20.7	11.9	64.4	
0.253744	47.4	1000.0	9.000	GND	L1	20.7	14.2	61.6	
0.473619	42.4	1000.0	9.000	GND	L3	20.6	14.1	56.5	
3.786162	36.0	1000.0	9.000	GND	L1	20.8	20.0	56.0	
6.010794	41.1	1000.0	9.000	GND	L1	20.8	18.9	60.0	
9.808400	45.3	1000.0	9.000	GND	L1	20.8	14.7	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	47.9	1000.0	9.000	GND	L1	20.7	6.5	54.4	
0.253744	43.2	1000.0	9.000	GND	L1	20.7	8.4	51.6	
0.473619	36.2	1000.0	9.000	GND	L3	20.6	10.3	46.5	
3.786162	30.9	1000.0	9.000	GND	L1	20.8	15.1	46.0	
6.010794	34.8	1000.0	9.000	GND	L1	20.8	15.2	50.0	
9.808400	34.7	1000.0	9.000	GND	L1	20.8	15.3	50.0	



**Cooking element #3**



- 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**

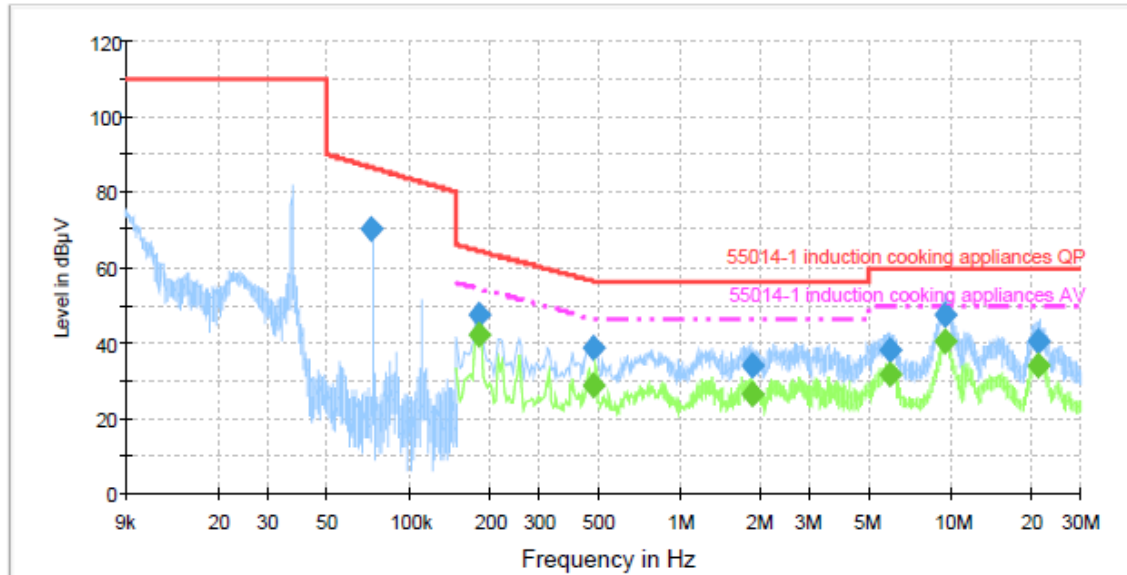
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.068259	77.0	1000.0	0.200	GND	L3	20.2	10.2	87.2	
0.170000	52.9	1000.0	9.000	GND	L1	20.7	12.1	65.0	
0.238550	45.7	1000.0	9.000	GND	L1	20.7	16.4	62.1	
3.844819	36.7	1000.0	9.000	GND	L1	20.8	19.3	56.0	
5.985900	38.8	1000.0	9.000	GND	L3	20.8	21.2	60.0	
9.013406	43.0	1000.0	9.000	GND	L1	20.8	17.0	60.0	
20.750456	42.5	1000.0	9.000	GND	L1	21.0	17.5	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.170000	47.9	1000.0	9.000	GND	L1	20.7	7.1	55.0	
0.238550	40.9	1000.0	9.000	GND	L1	20.7	11.2	52.1	
3.844819	30.1	1000.0	9.000	GND	L1	20.8	15.9	46.0	
5.985900	32.6	1000.0	9.000	GND	L3	20.8	17.5	50.0	
9.013406	36.7	1000.0	9.000	GND	L1	20.8	13.3	50.0	
20.750456	36.9	1000.0	9.000	GND	L1	21.0	13.1	50.0	



**Cooking element #4**



— 55014-1 induction cooking appliances QP      - - - 55014-1 induction cooking appliances AV  
— Preview Result 1-PK+      ◆ Final Result 1-QPK  
— 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
0.072930	70.1	1000.0	0.200	GND	L1	20.2	16.5	86.6	
0.182000	47.4	1000.0	9.000	GND	L3	20.6	17.0	64.4	
0.477619	38.6	1000.0	9.000	GND	L1	20.7	17.7	56.4	
1.860331	33.8	1000.0	9.000	GND	L3	20.7	22.2	56.0	
5.940675	38.2	1000.0	9.000	GND	L1	20.8	21.8	60.0	
9.508200	47.4	1000.0	9.000	GND	L1	20.8	12.6	60.0	
20.973106	40.3	1000.0	9.000	GND	L3	20.9	19.7	60.0	

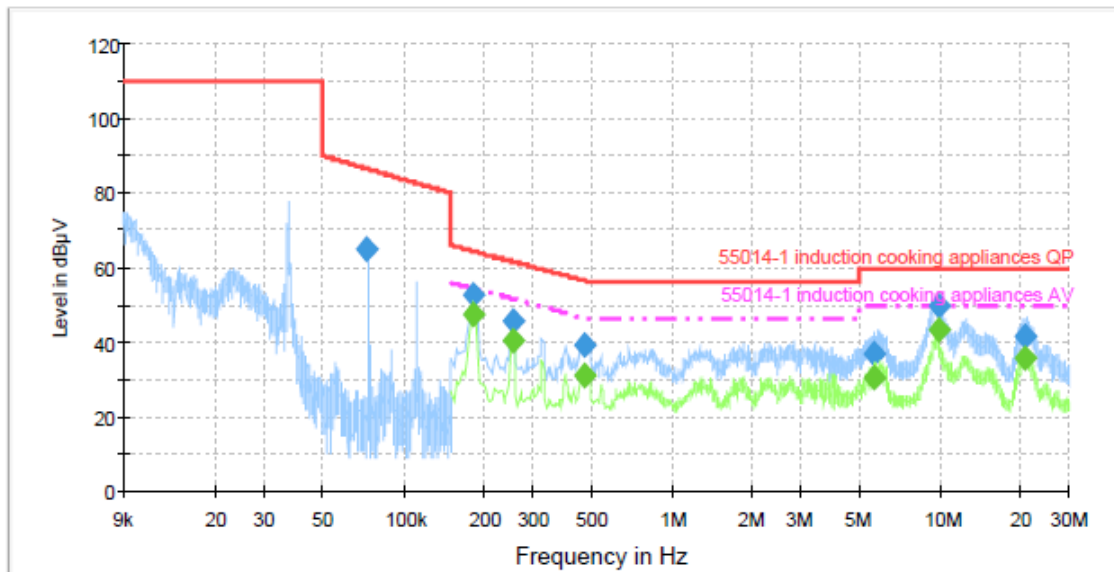
**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	42.3	1000.0	9.000	GND	L3	20.6	12.1	54.4	
0.477619	28.8	1000.0	9.000	GND	L1	20.7	17.6	46.4	
1.860331	26.3	1000.0	9.000	GND	L3	20.7	19.7	46.0	
5.940675	31.6	1000.0	9.000	GND	L1	20.8	18.4	50.0	
9.508200	40.3	1000.0	9.000	GND	L1	20.8	9.7	50.0	
20.973106	34.0	1000.0	9.000	GND	L3	20.9	16.0	50.0	





**Cooking element #5**



- 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**

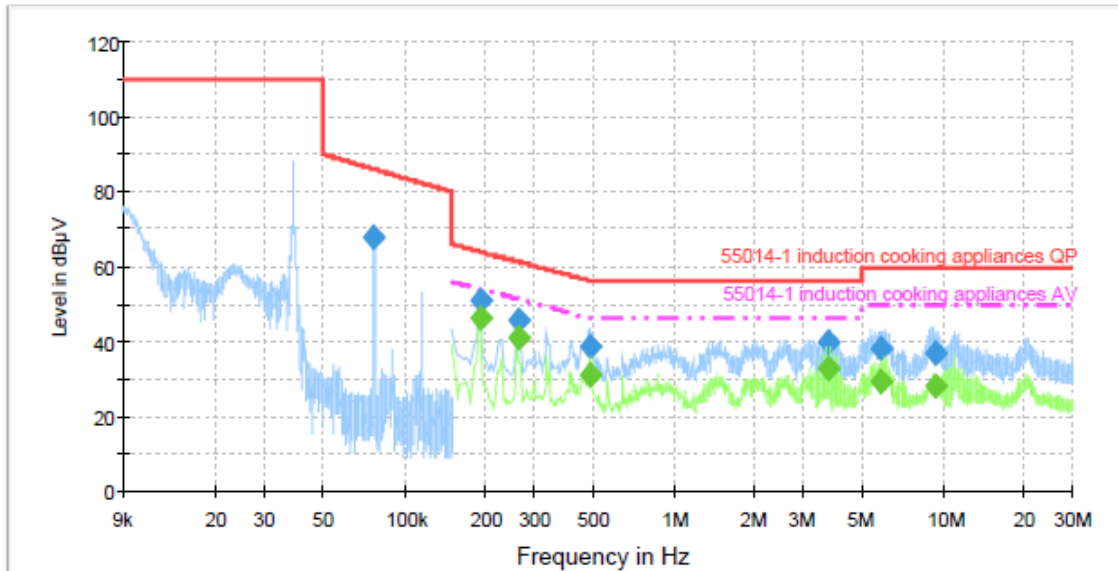
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.073142	65.2	1000.0	0.200	GND	L1	20.2	21.3	86.5	
0.182000	52.9	1000.0	9.000	GND	L1	20.7	11.5	64.4	
0.253475	45.6	1000.0	9.000	GND	L1	20.7	16.1	61.6	
0.473888	39.4	1000.0	9.000	GND	L3	20.6	17.0	56.4	
5.659250	37.0	1000.0	9.000	GND	L3	20.8	23.0	60.0	
9.751656	49.6	1000.0	9.000	GND	L3	20.8	10.4	60.0	
20.689262	41.5	1000.0	9.000	GND	L1	21.0	18.5	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	47.4	1000.0	9.000	GND	L1	20.7	7.0	54.4	
0.253475	40.1	1000.0	9.000	GND	L1	20.7	11.5	51.6	
0.473888	31.0	1000.0	9.000	GND	L3	20.6	15.5	46.4	
5.659250	30.2	1000.0	9.000	GND	L3	20.8	19.8	50.0	
9.751656	43.1	1000.0	9.000	GND	L3	20.8	6.9	50.0	
20.689262	35.4	1000.0	9.000	GND	L1	21.0	14.6	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**

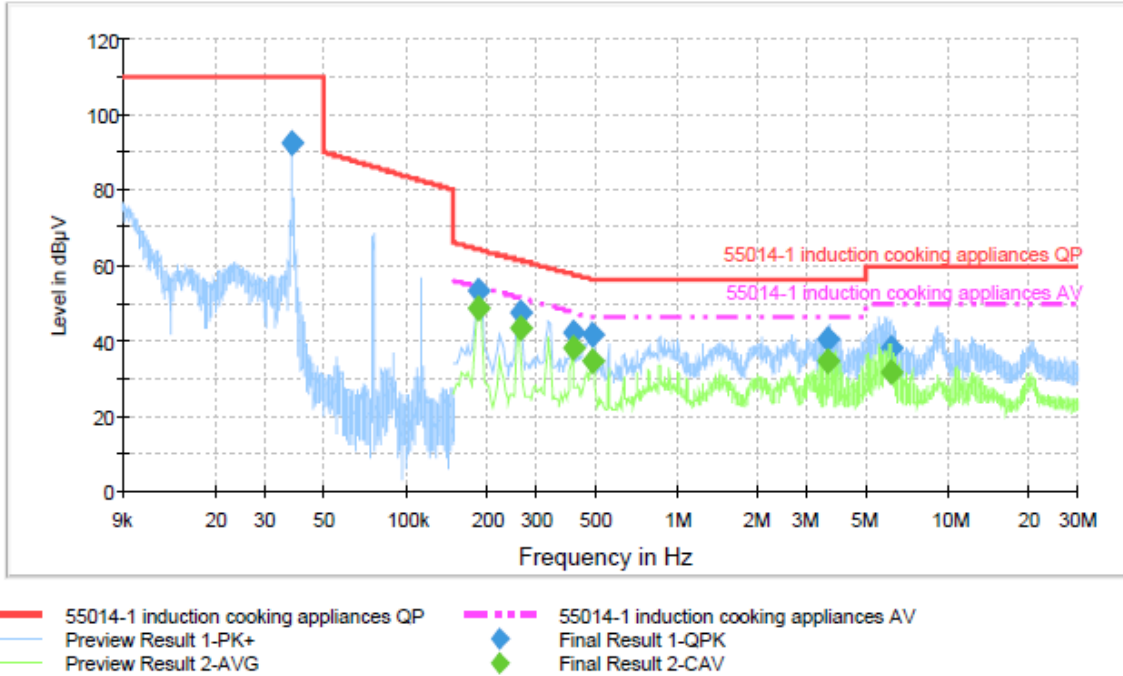
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.076261	67.8	1000.0	0.200	GND	L1	20.2	18.4	86.2	
0.190000	51.1	1000.0	9.000	GND	L1	20.7	13.0	64.0	
0.264400	45.8	1000.0	9.000	GND	L1	20.7	15.5	61.3	
0.488812	38.7	1000.0	9.000	GND	L3	20.6	17.5	56.2	
3.754194	40.0	1000.0	9.000	GND	L1	20.8	16.0	56.0	
5.838888	38.2	1000.0	9.000	GND	L3	20.8	21.8	60.0	
9.392381	37.2	1000.0	9.000	GND	L3	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
0.190000	46.0	1000.0	9.000	GND	L1	20.7	8.1	54.0	
0.264400	41.2	1000.0	9.000	GND	L1	20.7	10.1	51.3	
0.488812	31.3	1000.0	9.000	GND	L3	20.6	14.9	46.2	
3.754194	32.9	1000.0	9.000	GND	L1	20.8	13.1	46.0	
5.838888	29.5	1000.0	9.000	GND	L3	20.8	20.5	50.0	
9.392381	28.1	1000.0	9.000	GND	L3	20.8	21.9	50.0	



**Cooking element #2**



**Final Result 1**

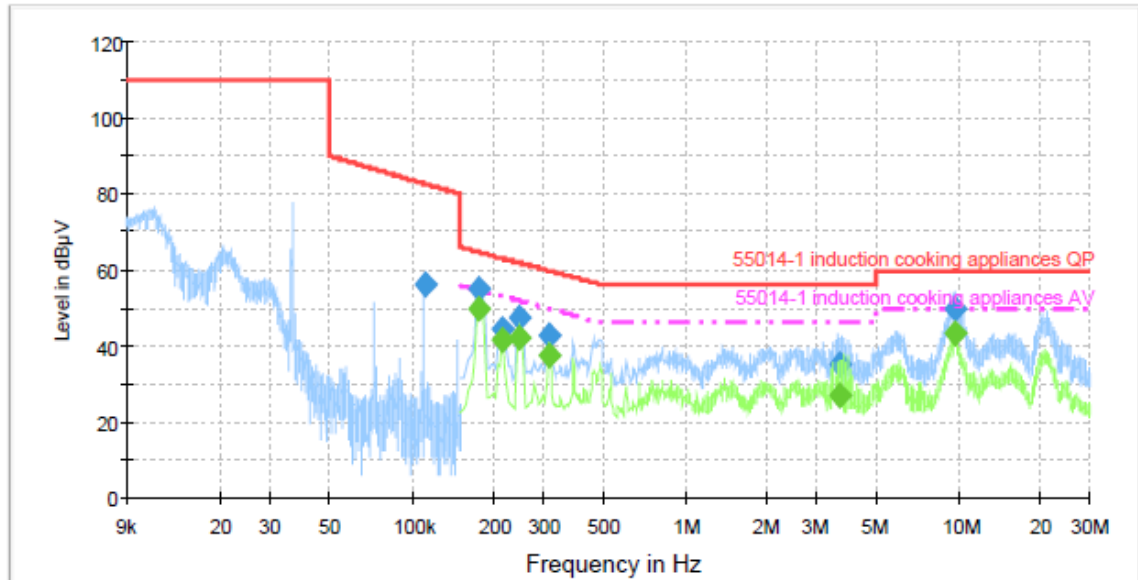
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.038028	92.4	1000.0	0.200	GND	L1	19.7	17.6	110.0	
0.186000	53.2	1000.0	9.000	GND	L1	20.7	11.0	64.2	
0.264938	47.6	1000.0	9.000	GND	L1	20.7	13.7	61.3	
0.413919	42.3	1000.0	9.000	GND	L3	20.6	15.3	57.6	
0.489350	41.6	1000.0	9.000	GND	L1	20.7	14.6	56.2	
3.601988	40.6	1000.0	9.000	GND	L1	20.8	15.4	56.0	
6.186969	38.3	1000.0	9.000	GND	L3	20.8	21.7	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	48.5	1000.0	9.000	GND	L1	20.7	5.7	54.2	
0.264938	43.4	1000.0	9.000	GND	L1	20.7	7.9	51.3	
0.413919	38.2	1000.0	9.000	GND	L3	20.6	9.4	47.6	
0.489350	34.6	1000.0	9.000	GND	L1	20.7	11.6	46.2	
3.601988	34.5	1000.0	9.000	GND	L1	20.8	11.5	46.0	
6.186969	31.8	1000.0	9.000	GND	L3	20.8	18.2	50.0	



### Cooking element #3



- 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

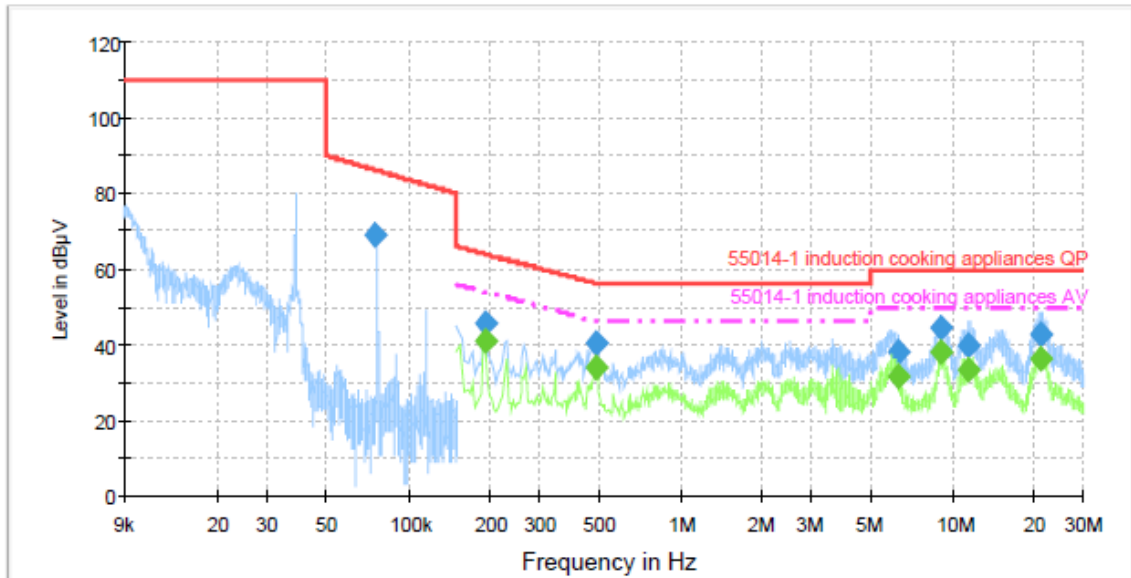
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.110832	56.0	1000.0	0.200	GND	L3	20.3	26.8	82.8	
0.176431	54.9	1000.0	9.000	GND	L3	20.6	9.8	64.7	
0.212680	44.7	1000.0	9.000	GND	L1	20.7	18.4	63.1	
0.246012	47.5	1000.0	9.000	GND	L3	20.6	14.4	61.9	
0.317175	42.6	1000.0	9.000	GND	L3	20.6	17.2	59.8	
3.652106	34.9	1000.0	9.000	GND	L3	20.7	21.1	56.0	
9.687956	49.7	1000.0	9.000	GND	L1	20.8	10.3	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.176431	49.7	1000.0	9.000	GND	L3	20.6	5.0	54.7	
0.212680	41.5	1000.0	9.000	GND	L1	20.7	11.6	53.1	
0.246012	42.2	1000.0	9.000	GND	L3	20.6	9.7	51.9	
0.317175	37.5	1000.0	9.000	GND	L3	20.6	12.3	49.8	
3.652106	27.0	1000.0	9.000	GND	L3	20.7	19.0	46.0	
9.687956	43.6	1000.0	9.000	GND	L1	20.8	6.4	50.0	



**Cooking element #4**



- 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**

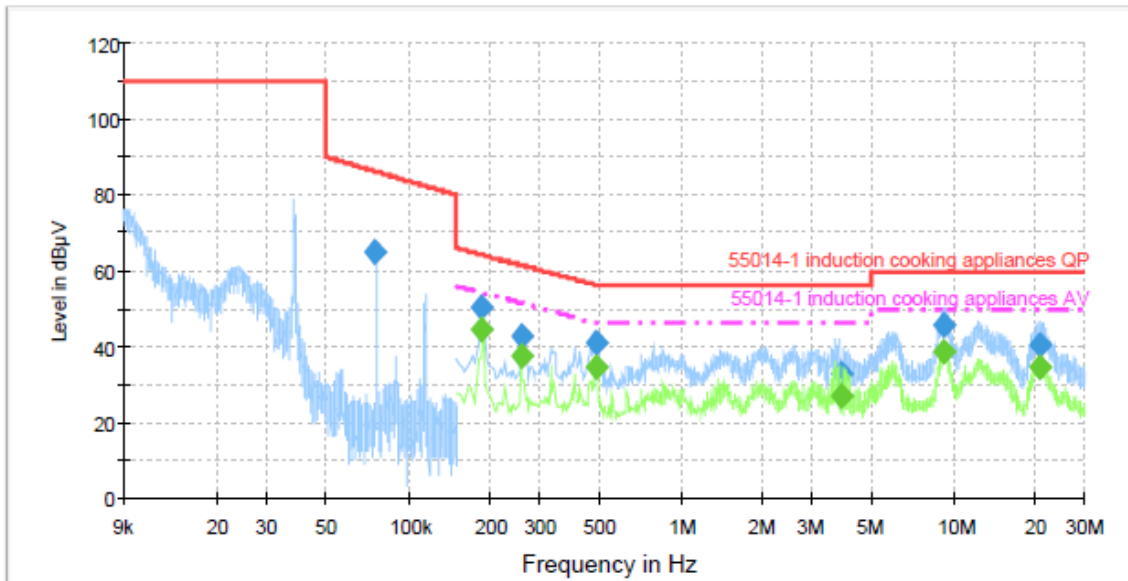
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.075821	69.2	1000.0	0.200	GND	L3	20.1	17.0	86.2	
0.190000	45.7	1000.0	9.000	GND	L3	20.6	18.4	64.0	
0.488544	40.4	1000.0	9.000	GND	L3	20.6	15.8	56.2	
6.223475	37.9	1000.0	9.000	GND	L3	20.8	22.1	60.0	
9.045525	44.6	1000.0	9.000	GND	L3	20.8	15.4	60.0	
11.384062	40.1	1000.0	9.000	GND	L3	20.9	19.9	60.0	
20.896094	42.5	1000.0	9.000	GND	L1	21.0	17.5	60.0	

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.190000	40.7	1000.0	9.000	GND	L3	20.6	13.4	54.0	
0.488544	34.0	1000.0	9.000	GND	L3	20.6	12.2	46.2	
6.223475	31.4	1000.0	9.000	GND	L3	20.8	18.6	50.0	
9.045525	38.1	1000.0	9.000	GND	L3	20.8	11.9	50.0	
11.384062	33.4	1000.0	9.000	GND	L3	20.9	16.6	50.0	
20.896094	36.3	1000.0	9.000	GND	L1	21.0	13.7	50.0	



Cooking element #5



- 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
0.075450	65.2	1000.0	0.200	GND	L1	20.2	21.1	86.3	
0.186000	50.1	1000.0	9.000	GND	L1	20.7	14.1	64.2	
0.261206	43.0	1000.0	9.000	GND	L1	20.7	18.4	61.4	
0.488812	41.2	1000.0	9.000	GND	L3	20.6	15.0	56.2	
3.860819	32.6	1000.0	9.000	GND	L1	20.8	23.4	56.0	
9.183700	45.7	1000.0	9.000	GND	L3	20.8	14.3	60.0	
20.403450	40.5	1000.0	9.000	GND	L3	20.9	19.5	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	44.5	1000.0	9.000	GND	L1	20.7	9.7	54.2	
0.261206	37.7	1000.0	9.000	GND	L1	20.7	13.7	51.4	
0.488812	34.6	1000.0	9.000	GND	L3	20.6	11.6	46.2	
3.860819	26.7	1000.0	9.000	GND	L1	20.8	19.3	46.0	
9.183700	38.4	1000.0	9.000	GND	L3	20.8	11.6	50.0	
20.403450	34.6	1000.0	9.000	GND	L3	20.9	15.4	50.0	



## 7. Radiated Emission

### 7.1 Operating Environment

Temperature : 21.2 °C  
Relative Humidity : 40.6 %  
Air Pressure : 100.9 kPa

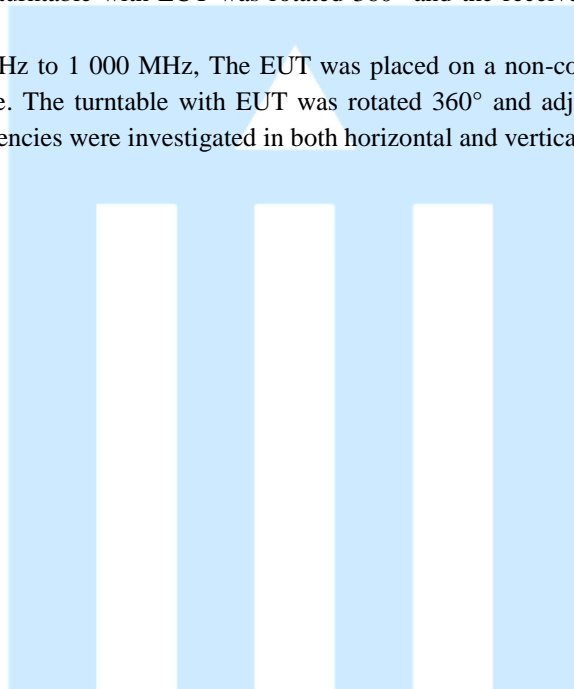
### 7.2 Test Set-up

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.



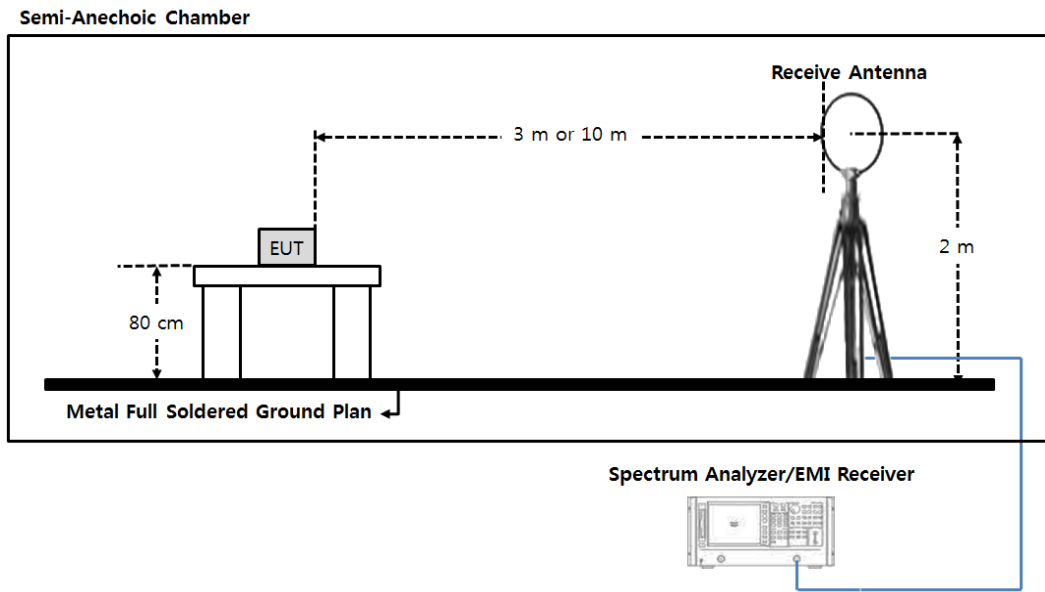


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

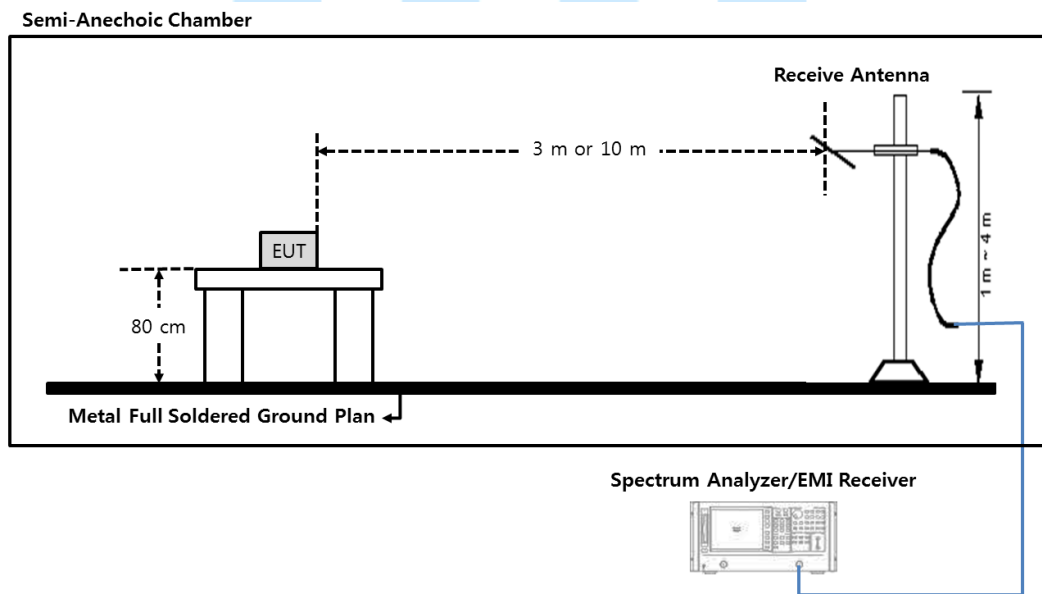


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)





### 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)	4.64 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)	4.89 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 ( <sup>2</sup> )	1,600 ( <sup>2</sup> )
	Above 5,725 MHz	Any		
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. 03, 2024
■ - HFH2-Z2	Rohde & Schwarz	Loop ANT	100041	Apr. 15, 2024
■ - 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.10.60.20	N/A

All test equipment used is calibrated on a regular basis.



## 7.6 Test data for Radiated Emission

- Test Date : Oct. 02, 2024 ~ Oct. 03, 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

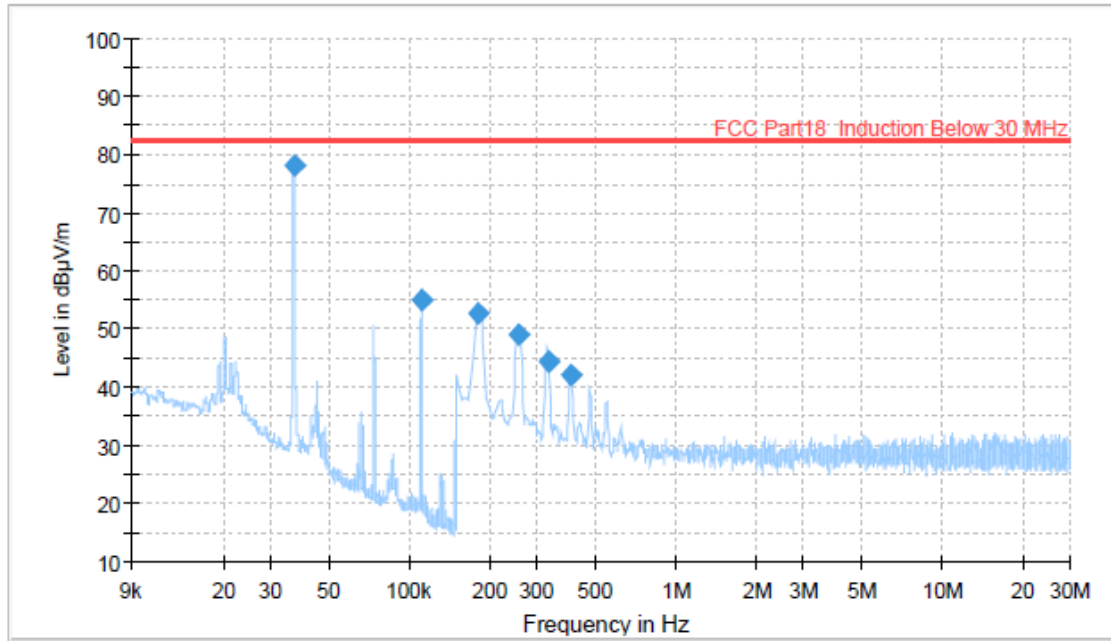
Frequency range	9 kHz ~ 150 kHz	0.15 MHz ~ 30 MHz
Detector mode	Average	Average
Resolution bandwidth	200 Hz	9 kHz





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

Cooking Element #1\_H



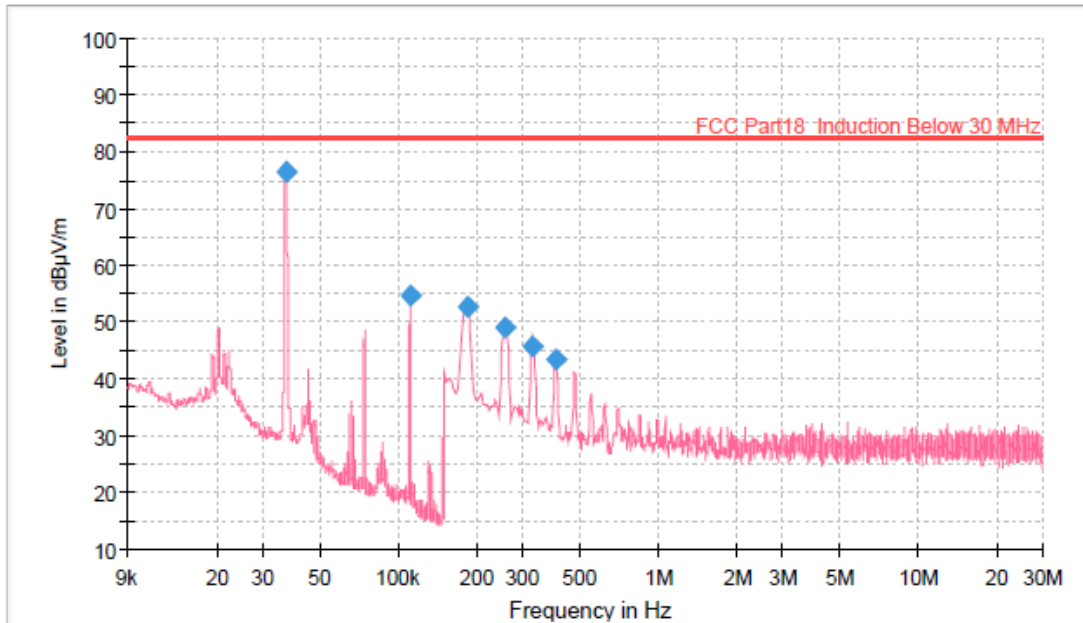
— Preview Result 1H-AVG      — FCC Part18 Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036681	78.06	82.60	4.54	1000.0	0.200	H	74.0	20.1
0.110179	55.02	82.60	27.58	1000.0	0.200	H	100.0	20.0
0.182000	52.80	82.60	29.80	1000.0	9.000	H	68.0	20.0
0.257475	49.06	82.60	33.54	1000.0	9.000	H	68.0	20.0
0.332100	44.53	82.60	38.07	1000.0	9.000	H	68.0	20.0
0.402725	41.97	82.60	40.63	1000.0	9.000	H	68.0	20.0



Cooking Element #1\_V

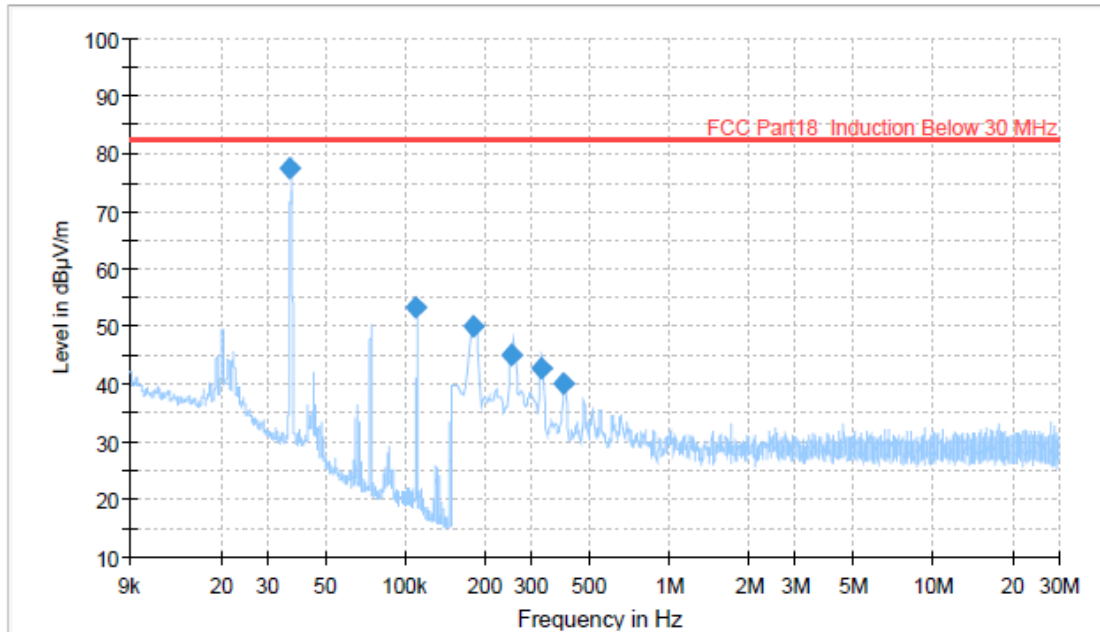


**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036746	76.56	82.60	6.04	1000.0	0.200	V	135.0	20.1
0.110804	54.79	82.60	27.81	1000.0	0.200	V	178.0	20.0
0.182835	52.73	82.60	29.87	1000.0	9.000	V	199.0	20.0
0.256460	49.12	82.60	33.48	1000.0	9.000	V	0.0	20.0
0.329100	45.79	82.60	36.81	1000.0	9.000	V	6.0	20.0
0.400740	43.36	82.60	39.24	1000.0	9.000	V	0.0	20.0



Cooking Element #2\_H

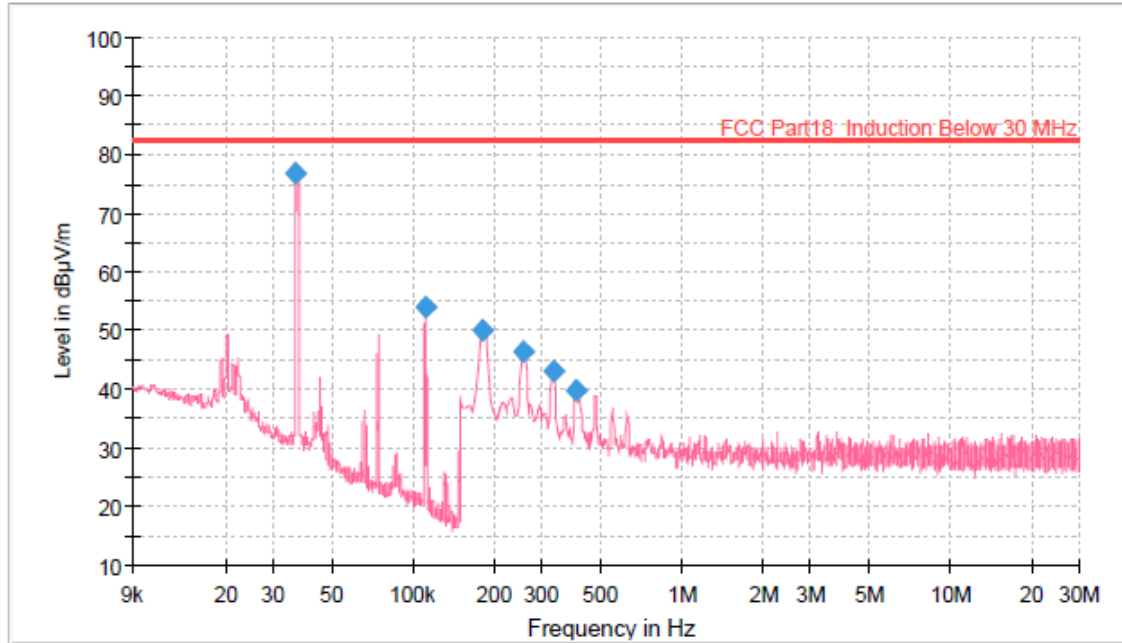


**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036290	77.54	82.60	5.06	1000.0	0.200	H	65.0	20.1
0.109661	53.32	82.60	29.28	1000.0	0.200	H	65.0	20.0
0.182000	49.97	82.60	32.63	1000.0	9.000	H	90.0	20.0
0.253475	45.09	82.60	37.51	1000.0	9.000	H	90.0	20.0
0.328100	42.83	82.60	39.77	1000.0	9.000	H	90.0	20.0
0.398725	40.03	82.60	42.57	1000.0	9.000	H	65.0	20.0



Cooking Element #2\_V



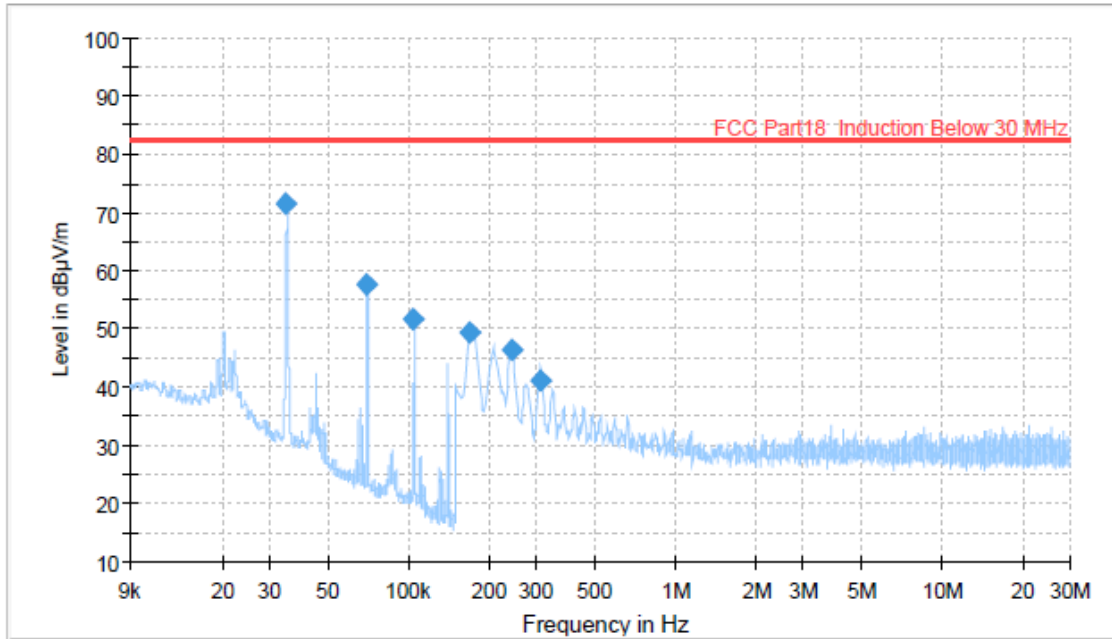
— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVG

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036638	76.82	82.60	5.78	1000.0	0.200	V	170.0	20.1
0.110718	53.99	82.60	28.61	1000.0	0.200	V	0.0	20.0
0.182000	49.92	82.60	32.68	1000.0	9.000	V	157.0	20.0
0.256460	46.41	82.60	36.19	1000.0	9.000	V	157.0	20.0
0.331085	43.20	82.60	39.40	1000.0	9.000	V	157.0	20.0
0.402725	39.89	82.60	42.71	1000.0	9.000	V	157.0	20.0



Cooking Element #3\_H



— Preview Result 1H-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

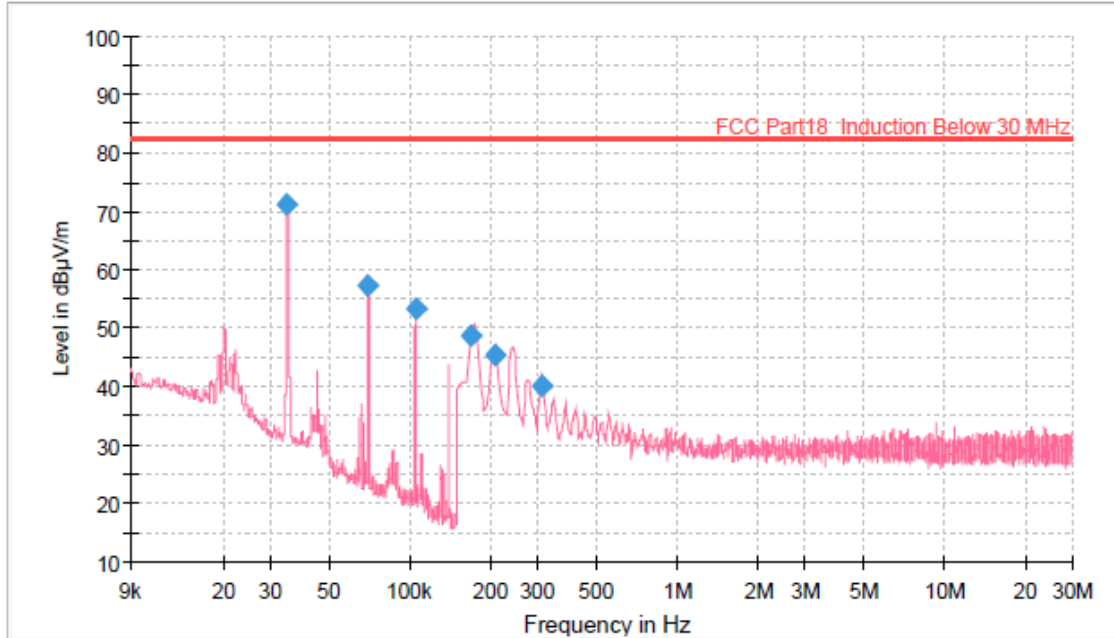
**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034292	71.63	82.60	10.97	1000.0	0.200	H	93.0	20.1
0.068940	57.71	82.60	24.89	1000.0	0.200	H	130.0	20.0
0.104068	51.82	82.60	30.78	1000.0	0.200	H	76.0	20.0
0.170000	49.32	82.60	33.28	1000.0	9.000	H	278.0	20.0
0.241535	46.26	82.60	36.34	1000.0	9.000	H	72.0	20.0
0.310190	41.00	82.60	41.60	1000.0	9.000	H	72.0	20.0





Cooking Element #3\_V



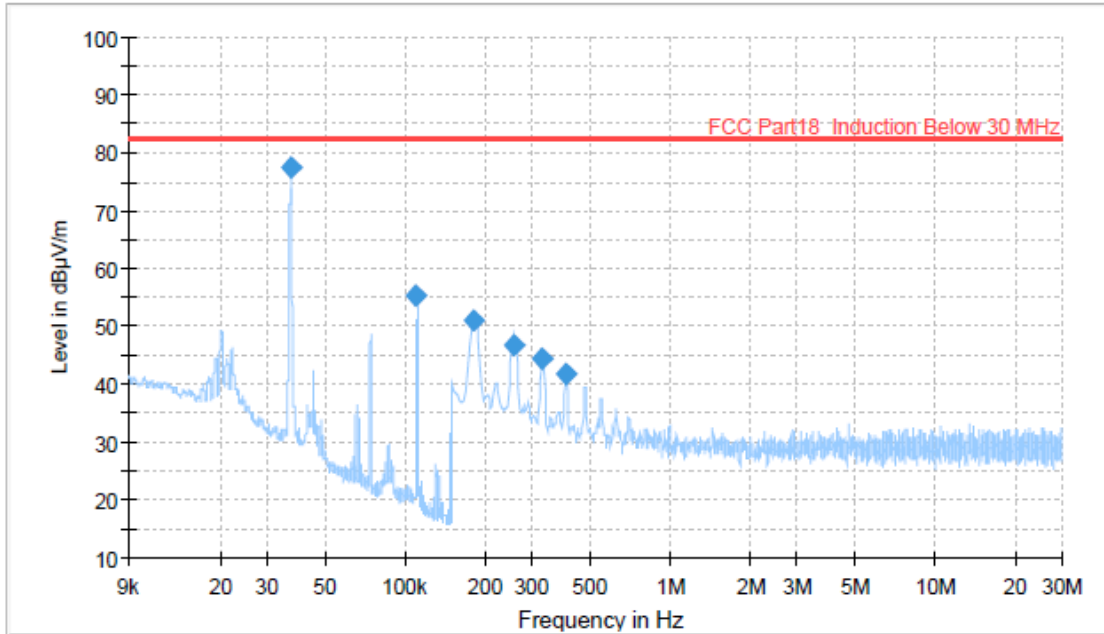
— Preview Result 1V-AVG      — FCC Part18 Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034245	71.14	82.60	11.46	1000.0	0.200	V	101.0	20.1
0.068969	57.47	82.60	25.13	1000.0	0.200	V	135.0	20.0
0.104502	53.41	82.60	29.19	1000.0	0.200	V	89.0	20.0
0.170000	48.88	82.60	33.72	1000.0	9.000	V	67.0	20.0
0.206715	45.57	82.60	37.03	1000.0	9.000	V	279.0	20.0
0.310190	40.22	82.60	42.38	1000.0	9.000	V	67.0	20.0



Cooking Element #4\_H

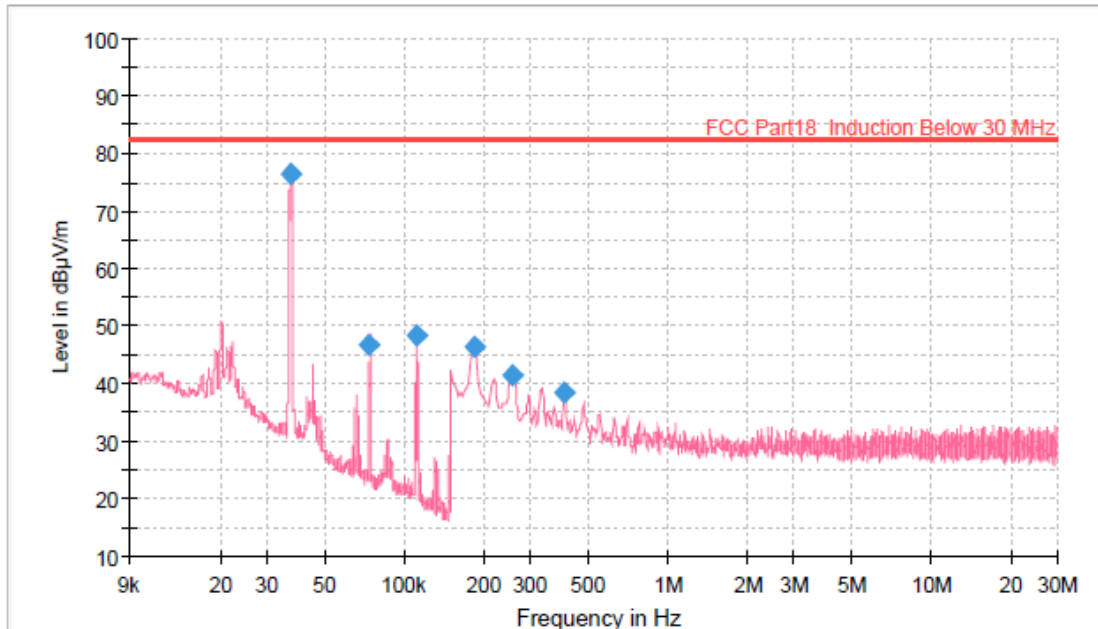


**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036878	77.40	82.60	5.20	1000.0	0.200	H	289.0	20.1
0.109633	55.30	82.60	27.30	1000.0	0.200	H	155.0	20.0
0.182000	50.93	82.60	31.67	1000.0	9.000	H	175.0	20.0
0.256460	46.71	82.60	35.89	1000.0	9.000	H	168.0	20.0
0.327085	44.30	82.60	38.30	1000.0	9.000	H	187.0	20.0
0.402725	41.82	82.60	40.78	1000.0	9.000	H	175.0	20.0



Cooking Element #4\_V



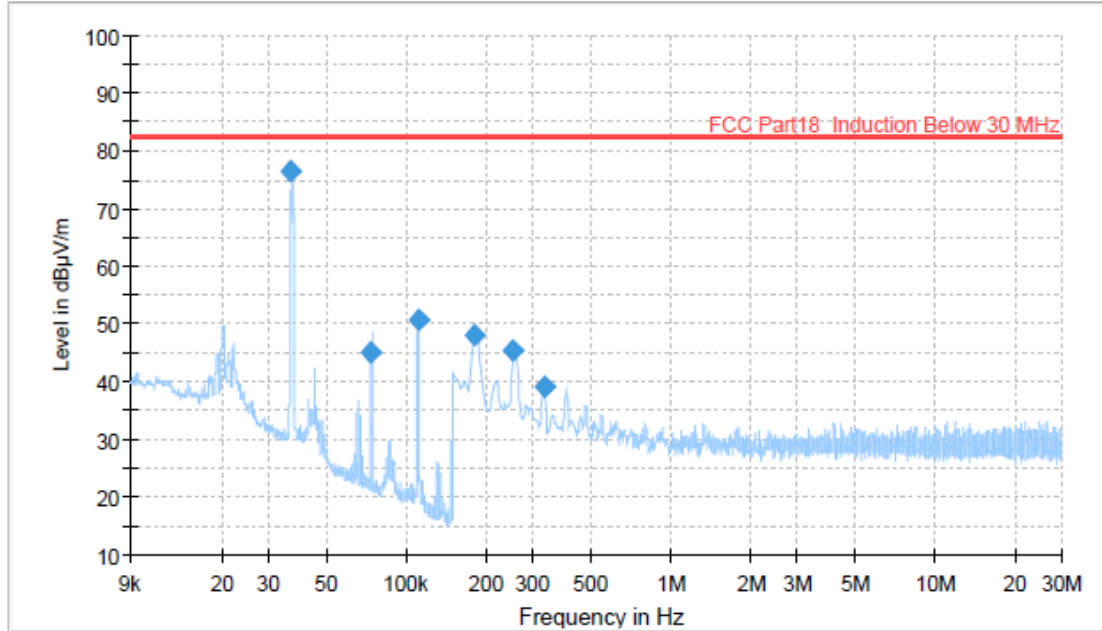
— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036666	76.38	82.60	6.22	1000.0	0.200	V	166.0	20.1
0.073297	46.86	82.60	35.74	1000.0	0.200	V	50.0	20.0
0.110832	48.52	82.60	34.08	1000.0	0.200	V	220.0	20.0
0.182835	46.30	82.60	36.30	1000.0	9.000	V	235.0	20.0
0.256460	41.58	82.60	41.02	1000.0	9.000	V	93.0	20.0
0.403725	38.55	82.60	44.05	1000.0	9.000	V	263.0	20.0



Cooking Element #5\_H



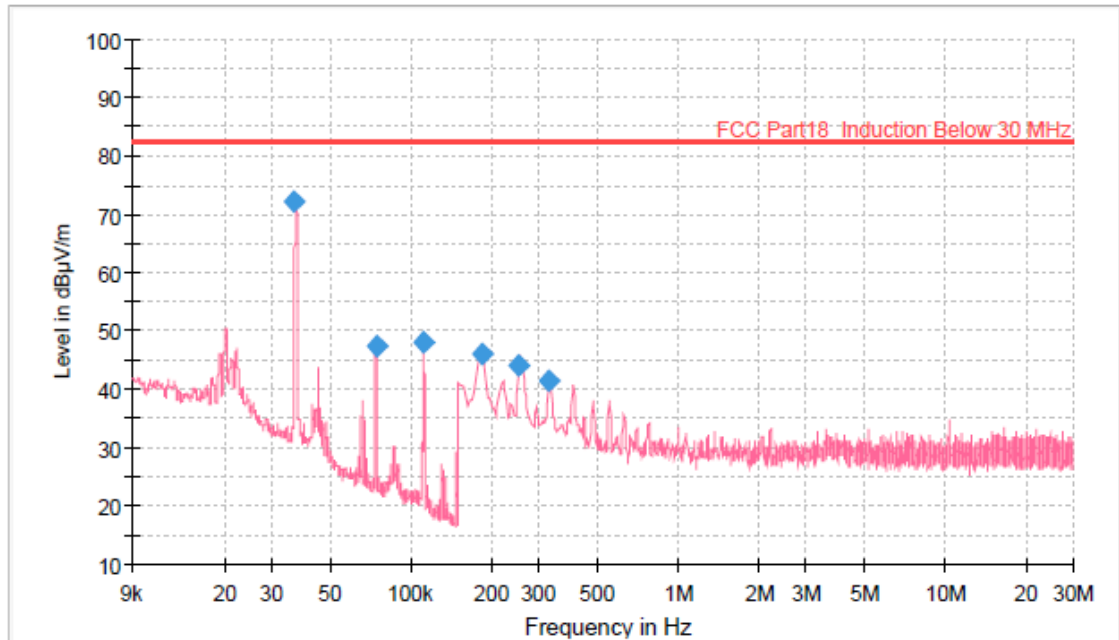
— Preview Result 1H-AVG    — FCC Part18\_Induction Below 30 MHz    ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036473	76.58	82.60	6.02	1000.0	0.200	H	187.0	20.1
0.073072	45.07	82.60	37.53	1000.0	0.200	H	129.0	20.0
0.110860	50.70	82.60	31.90	1000.0	0.200	H	141.0	20.0
0.182000	47.95	82.60	34.65	1000.0	9.000	H	152.0	20.0
0.253475	45.34	82.60	37.26	1000.0	9.000	H	136.0	20.0
0.332085	38.97	82.60	43.63	1000.0	9.000	H	254.0	20.0



Cooking Element #5\_V



— Preview Result 1V-AVG    — FCC Part18\_Induction Below 30 MHz    ◆ Final\_Result AVG

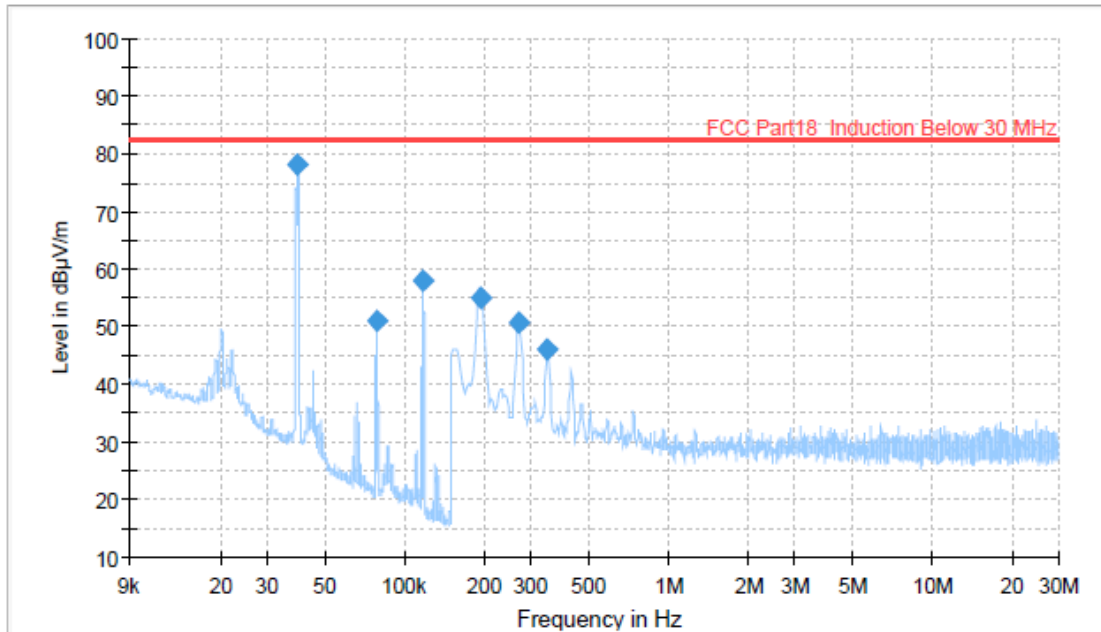
**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036332	72.06	82.60	10.54	1000.0	0.200	V	134.0	20.1
0.073829	47.44	82.60	35.16	1000.0	0.200	V	47.0	20.0
0.110841	48.03	82.60	34.57	1000.0	0.200	V	184.0	20.0
0.182835	46.08	82.60	36.52	1000.0	9.000	V	336.0	20.0
0.252460	44.14	82.60	38.46	1000.0	9.000	V	101.0	20.0
0.327085	41.43	82.60	41.17	1000.0	9.000	V	134.0	20.0



[AC 240V, 60 Hz]

Cooking Element #1\_H



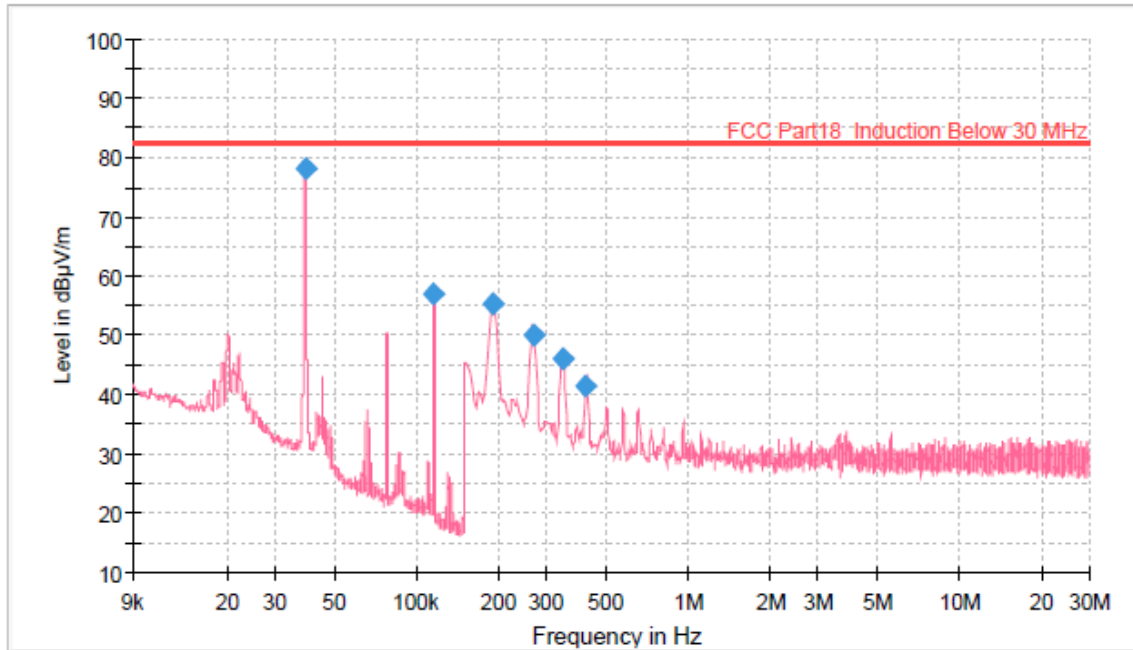
— Preview Result 1H-AVG    — FCC Part18\_Induction Below 30 MHz    ◆ Final\_Result AVC

### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.039089	78.27	82.60	4.33	1000.0	0.200	H	78.0	20.1
0.078337	51.00	82.60	31.60	1000.0	0.200	H	111.0	20.0
0.116363	57.97	82.60	24.63	1000.0	0.200	H	78.0	20.0
0.194000	55.07	82.60	27.53	1000.0	9.000	H	55.0	20.0
0.268400	50.54	82.60	32.06	1000.0	9.000	H	55.0	20.0
0.346010	45.99	82.60	36.61	1000.0	9.000	H	55.0	20.0



Cooking Element #1\_V



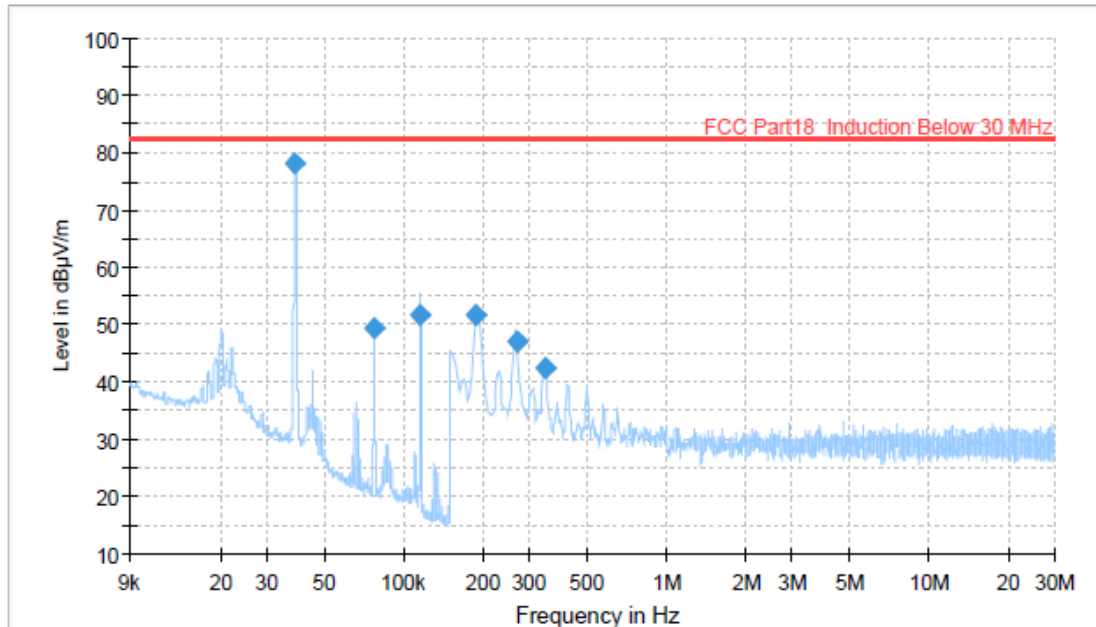
Preview Result 1V-AVG      FCC Part18\_Induction Below 30 MHz      Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038993	78.13	82.60	4.47	1000.0	0.200	V	137.0	20.1
0.114620	56.89	82.60	25.71	1000.0	0.200	V	0.0	20.0
0.190000	55.22	82.60	27.38	1000.0	9.000	V	0.0	20.0
0.269415	49.92	82.60	32.68	1000.0	9.000	V	0.0	20.0
0.343025	46.23	82.60	36.37	1000.0	9.000	V	0.0	20.0
0.420635	41.37	82.60	41.23	1000.0	9.000	V	0.0	20.0



Cooking Element #2\_H



— Preview Result 1H-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

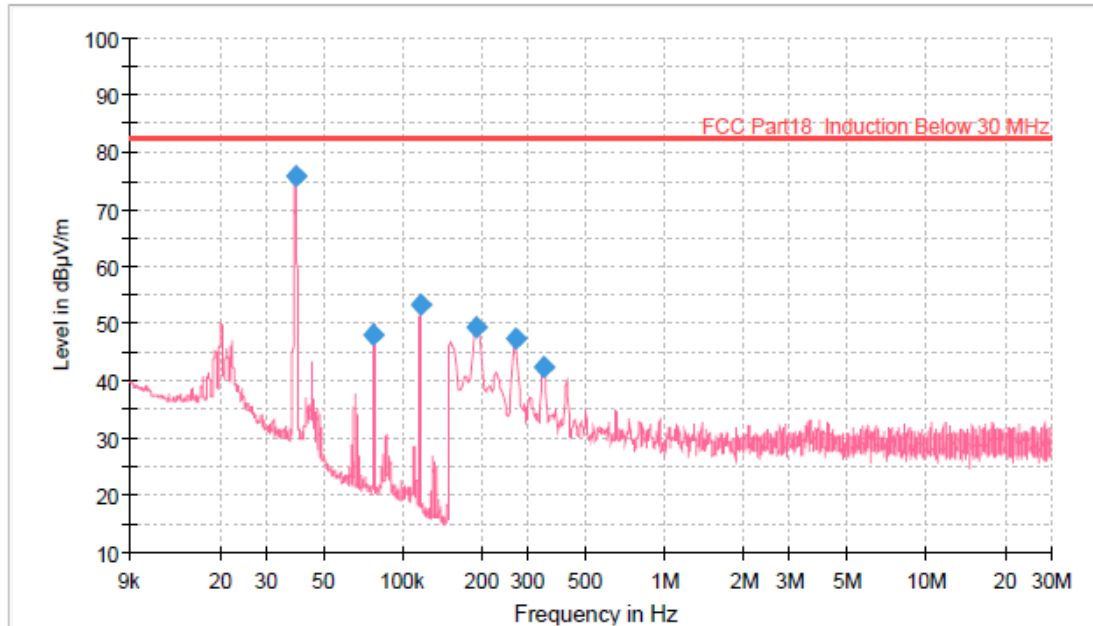
**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038222	78.18	82.60	4.42	1000.0	0.200	H	72.0	20.1
0.076508	49.45	82.60	33.15	1000.0	0.200	H	124.0	20.0
0.114737	51.69	82.60	30.91	1000.0	0.200	H	72.0	20.0
0.188805	51.73	82.60	30.87	1000.0	9.000	H	72.0	20.0
0.269415	46.98	82.60	35.62	1000.0	9.000	H	60.0	20.0
0.343025	42.41	82.60	40.19	1000.0	9.000	H	60.0	20.0





Cooking Element #2\_V



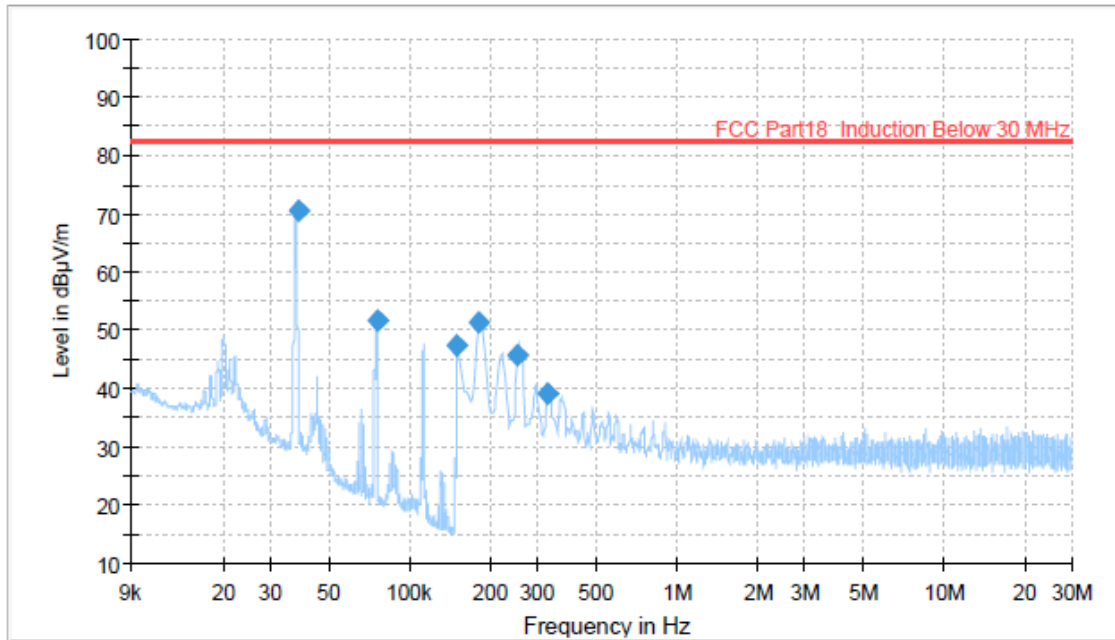
— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVG

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038706	75.78	82.60	6.82	1000.0	0.200	V	148.0	20.1
0.077509	48.18	82.60	34.42	1000.0	0.200	V	37.0	20.0
0.116138	53.39	82.60	29.21	1000.0	0.200	V	148.0	20.0
0.190000	49.40	82.60	33.20	1000.0	9.000	V	123.0	20.0
0.269415	47.51	82.60	35.09	1000.0	9.000	V	111.0	20.0
0.343025	42.31	82.60	40.29	1000.0	9.000	V	111.0	20.0



Cooking Element #3\_H



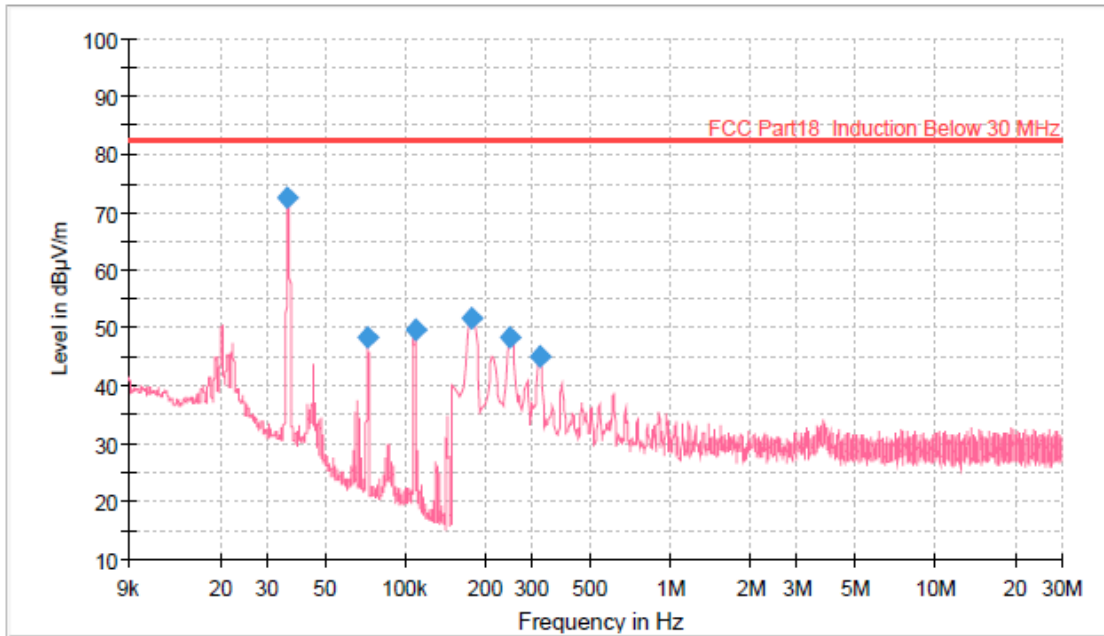
— Preview Result 1H-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.037983	70.39	82.60	12.21	1000.0	0.200	H	105.0	20.1
0.075358	51.78	82.60	30.82	1000.0	0.200	H	105.0	20.0
0.150000	47.33	82.60	35.27	1000.0	9.000	H	158.0	20.0
0.182000	51.26	82.60	31.34	1000.0	9.000	H	93.0	20.0
0.252460	45.89	82.60	36.71	1000.0	9.000	H	93.0	20.0
0.328100	39.11	82.60	43.49	1000.0	9.000	H	53.0	20.0



Cooking Element #3\_V



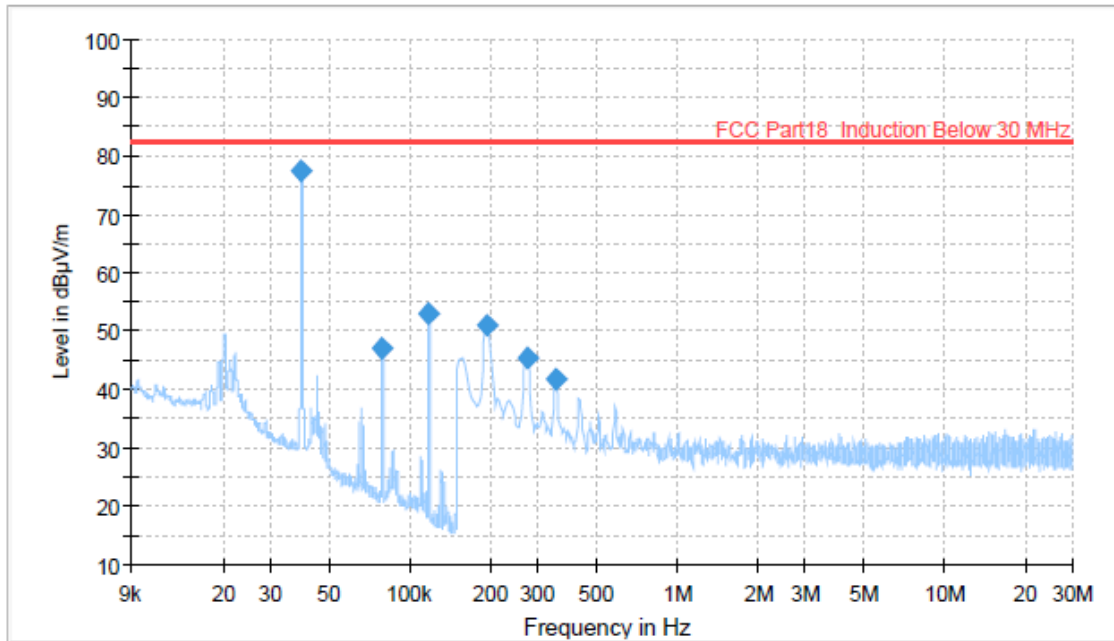
— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVG

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.035903	72.69	82.60	9.91	1000.0	0.200	V	177.0	20.1
0.072001	48.50	82.60	34.10	1000.0	0.200	V	223.0	20.0
0.108225	49.61	82.60	32.99	1000.0	0.200	V	177.0	20.0
0.176865	51.68	82.60	30.92	1000.0	9.000	V	173.0	20.0
0.248505	48.34	82.60	34.26	1000.0	9.000	V	161.0	20.0
0.320145	45.09	82.60	37.51	1000.0	9.000	V	173.0	20.0



Cooking Element #4\_H



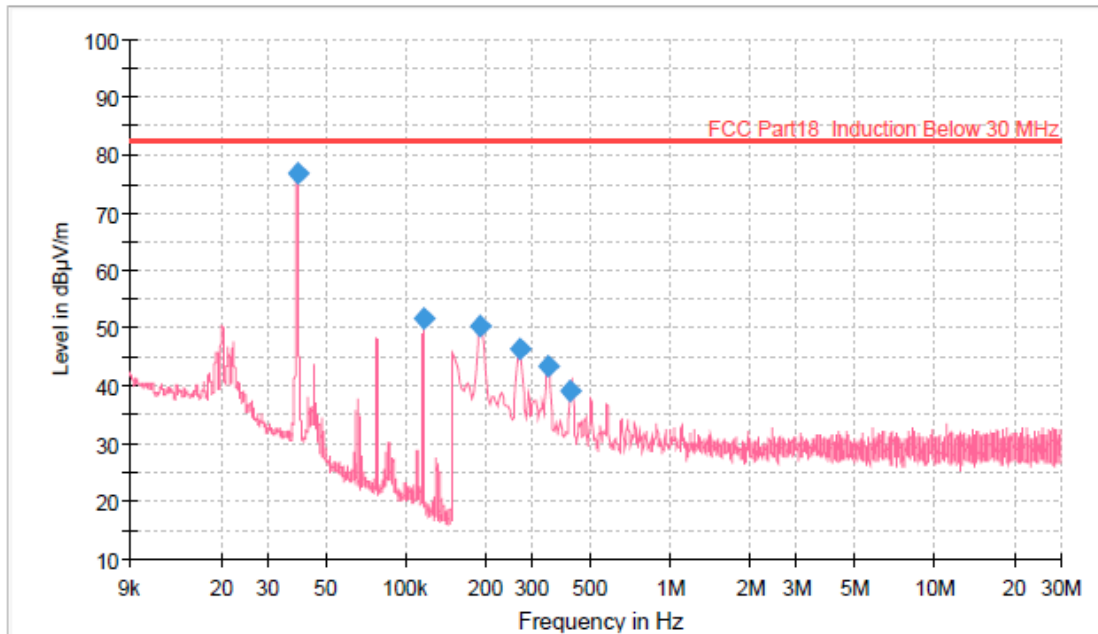
— Preview Result 1H-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.039143	77.49	82.60	5.11	1000.0	0.200	H	245.0	20.1
0.078407	47.19	82.60	35.41	1000.0	0.200	H	139.0	20.0
0.117482	53.11	82.60	29.49	1000.0	0.200	H	175.0	20.0
0.194000	50.87	82.60	31.73	1000.0	9.000	H	171.0	20.0
0.275385	45.33	82.60	37.27	1000.0	9.000	H	175.0	20.0
0.349995	41.86	82.60	40.74	1000.0	9.000	H	199.0	20.0



Cooking Element #4\_V



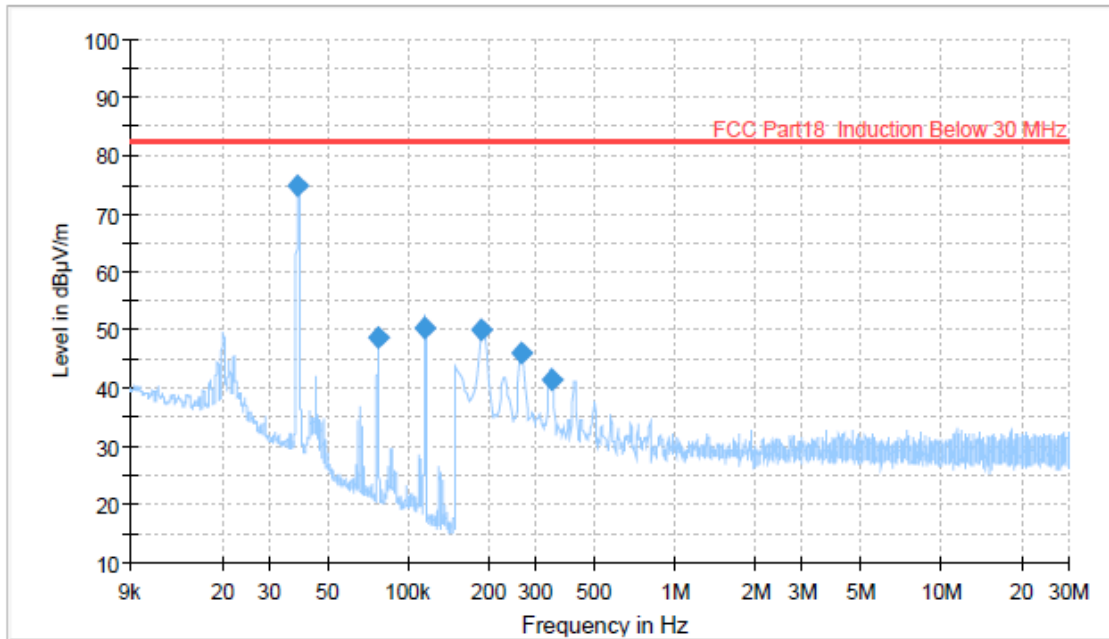
— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.039059	76.86	82.60	5.74	1000.0	0.200	V	196.0	20.1
0.115993	51.56	82.60	31.04	1000.0	0.200	V	69.0	20.0
0.190000	50.22	82.60	32.38	1000.0	9.000	V	130.0	20.0
0.269400	46.40	82.60	36.20	1000.0	9.000	V	300.0	20.0
0.347010	43.26	82.60	39.34	1000.0	9.000	V	279.0	20.0
0.420635	39.07	82.60	43.53	1000.0	9.000	V	0.0	20.0



Cooking Element #5\_H



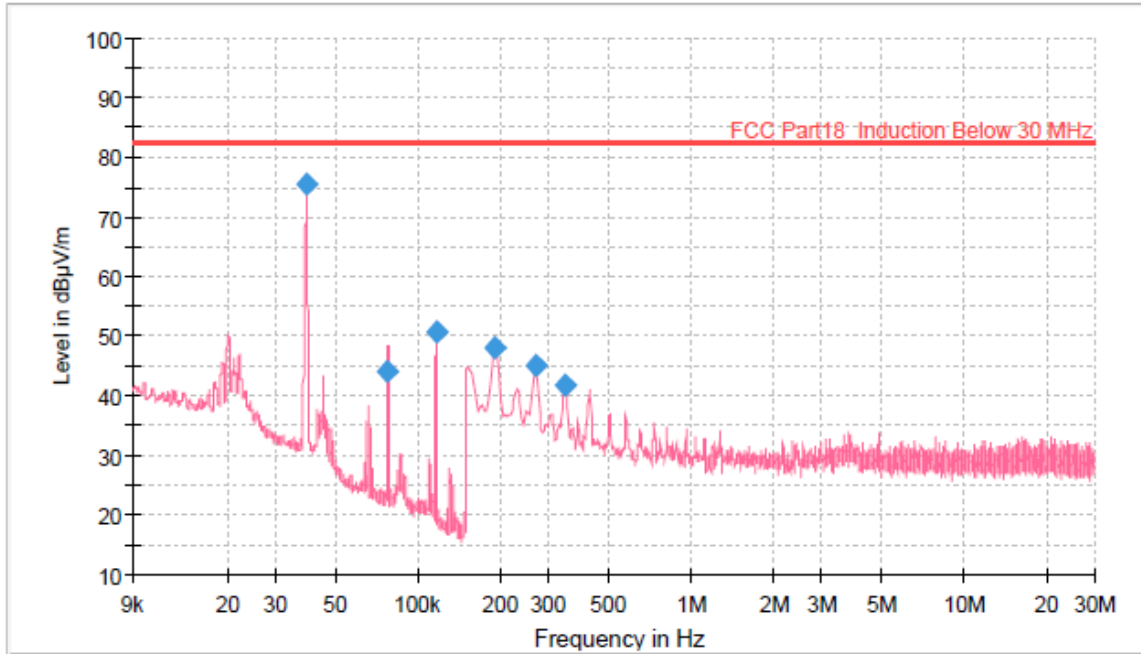
— Preview Result 1H-AVG    — FCC Part18\_Induction Below 30 MHz    ◆ Final\_Result AVC

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038540	74.72	82.60	7.88	1000.0	0.200	H	182.0	20.1
0.076385	48.75	82.60	33.85	1000.0	0.200	H	112.0	20.0
0.114568	50.27	82.60	32.33	1000.0	0.200	H	176.0	20.0
0.188805	50.04	82.60	32.56	1000.0	9.000	H	209.0	20.0
0.265415	46.08	82.60	36.52	1000.0	9.000	H	176.0	20.0
0.343025	41.48	82.60	41.12	1000.0	9.000	H	152.0	20.0



Cooking Element #5\_V



— Preview Result 1V-AVG      — FCC Part18\_Induction Below 30 MHz      ◆ Final\_Result AVG

**Final Result**

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.039078	75.52	82.60	7.08	1000.0	0.200	V	99.0	20.1
0.076653	44.16	82.60	38.44	1000.0	0.200	V	39.0	20.0
0.117023	50.84	82.60	31.76	1000.0	0.200	V	70.0	20.0
0.190000	47.98	82.60	34.62	1000.0	9.000	V	52.0	20.0
0.269400	45.10	82.60	37.50	1000.0	9.000	V	145.0	20.0
0.344025	41.77	82.60	40.83	1000.0	9.000	V	157.0	20.0



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”= left front hob ,”2”= left rear hob, “3”= Center hob, “4”= right front hob, “5”= right rear hob







## 8. Sample Calculations

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10}(\mu\text{V}/\text{m})$$

$$\text{dB}\mu\text{V} = \text{dBm} + 107$$

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

### 8.1 Example 1 :

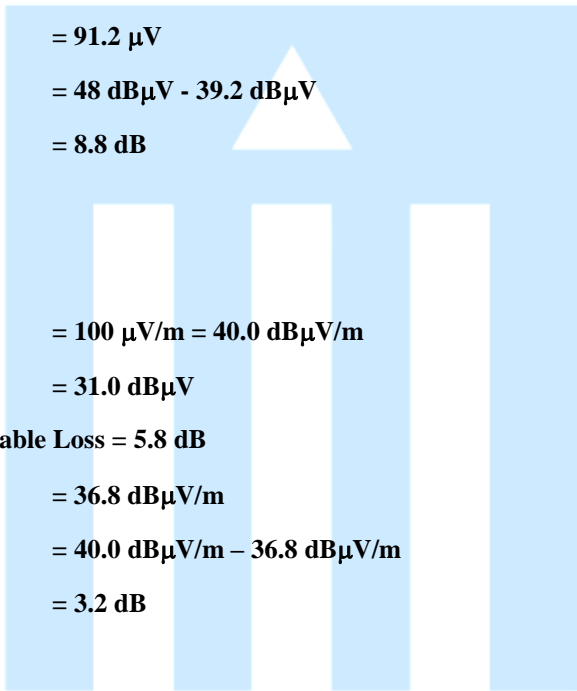
#### ■ 20.3 MHz

**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: SKSIT3601G)** was complies with § 18.305 and 18.307 of the FCC Rules.

- The end -

