TEST REPORT

CERTIFICATION OF COMPLIANCE

Date of Issue: August 10, 2022 **Test Report No: CW011252-220802001**

Test Site: LG Electronics H&A EMC Standard Lab.

Applicant:	LG Electronics USA, Inc. 111 Sylvan Avenue North Building Englewood Cliffs, NJ 07632
Product Type:	HOUSEHOLD COOKTOP
Brand Name(s):	LG
Model Name :	CBIS3618B
Equipment Class:	Industrial, Scientific and Medical equipment
Regulation:	FCC Part 18
Test Procedure:	MP-5: 1986
Date of Receipt:	Aug. 1. 2022
Date of Test:	Aug. 2. 2022 ~ Aug. 5. 2022
FCC ID:	BEJQ50941G

This device has been verified to comply with the applicable requirements in the FCC Part 18 and was tested in accordance with the measurement procedures specified in MP-5: 1986.
I assure full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Note 1: This report apply only to the specific sample(s) tested under stated test conditions.
Note2: This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.

Tested by:

Jang Hoseong / Test Engineer
H&A EMC Standard Lab., LG Electronics Inc.

Reviewed by:

Kim Tae Yul / Technical Manager
H&A EMC Standard Lab., LG Electronics Inc.

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Tel: + 82 55 260 3966

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1. General Information

1.1 Client Information

The EUT has been tested by request of:

Applicant:	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer:	LG Electronics Inc
Address	170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51533, Republic of KOREA
Name of contact:	Sung Soo.Kim
Telephone:	201-266-2215

1.2 Test facility

We are the accredited EMC laboratory by RRA(KOREA).

We certify that the above products had performed test on our laboratory and it was confirmed to comply with FCC requirement.

The site are constructed in conformance with the requirements of CISPR publication 16/ANSI C63.4

The test was performed accordance to the procedures from FCC/OET MP-5.

Name and Address:	LG Electronics H&A EMC Standard Lab. 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51533, Republic of KOREA
RRA Registration No.	KR0152
Telephone:	+82-55-260-3966
E-mail	hoseong.jang@lge.com

2. Product Information

2.1 Description of EUT.

EUT is the LG Electronics Inc. Microwave Oven as followings:

Equipment:	HOUSEHOLD COOKTOP
Model:	CBIS3618B
Brand name:	LG Electronics.
Serial number:	N/A
Rated Input Voltage:	240/208 VAC , 60 Hz
Max Input Current	44.4 A / 41.6 A
Maximum Power Load	10650 W / 8650 W
Outer Dimensions (inch)	36 5/8" x 3 9/16" x 21 1/16" (W x H x D)
Induction Heating Operating Frequency	30 kHz ~ 40 kHz

Cooking Zone Size & Power

	Position	Size	Power (Level 9 / Boost)
Cooking Zones	Front Left	8 1/2" x 7 3/32" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)
	Front Right	8 3/16" (208 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)
	Rear Left	8 1/2" x 7 3/32" (216 mm x 180 mm)	1500/3000 W (208 V) 1850/3700 W (240 V)
	Rear Right	6" (152 mm)	1150/1450 W (208 V) 1400/1800 W (240 V)
	Flex Left	8 1/2" x 14 11/64" (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: 3000/4900 W (208 V) 3700/6000 W (240 V)

3. Description of tests

3.1 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 / 240 V, 60 Hz
- Operating condition during the test(s) :
  This device has been tested in the configurations of Induction mode.
  Induction mode: This device has been operated 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”=front right hob,
  “4”=rear right hob, “5”=center hob

3.2 Auxiliary Equipment / Cable List

3.2.1 Auxiliary Equipment

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

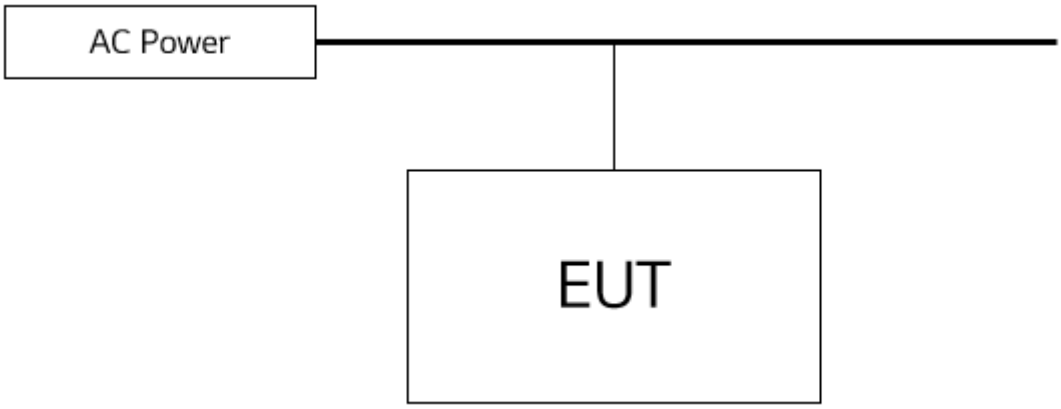
3.2.2 System Configuration

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

3.2.3 Cable List

Start		End		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
EUT	AC IN	AC Power Source	-	1.2	Unshielded

3.3 Test System Layout



4. Summary of Test Results

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

-. 18.313 Radio frequency exposure requirements

1.1307 (b)(3)(ii)(A)
The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

-. 447498 D04 Interim General RF Exposure Guidance v01

2.2.1 1-mW Test Exemption for Multiple Sources
As discussed in § 1.1307(b)(3)(ii)(A), the 1-mW exemption intended for single transmitters may be also applied to simultaneous transmission conditions, within the same host device, according one of the following criteria:
a) When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.
b) When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period. This exemption may not be combined with any other exemption.

Elements	Highest Emissions @ 10m [dBuV/m]	EIRP [dBm]	EIRP [mW]
Element 1	75.3	-9.47	0.113
Element 2	78.1	-6.67	0.215
Element 3	71.8	-12.97	0.050
Element 4	75.0	-9.77	0.105
Element 5	75.5	-9.27	0.118
These values are most conservative values based on measured emission regardless voltage and polarization			

EIRP[dBm] = E [dBμV/m] + 20 log (10 [m]) - 104.77

Aggregated maximum power = 0.113 + 0.215 + 0.050 + 0.105 + 0.118 = 0.602 mW

Therefore, 1mW test exemption can be applied and this device complies 18.313 requirement in accordance with 1.1307(b)(3)(ii)(A).

5. Conducted Emission

5.1 Operating Environment

Temperature	:	24.5 ℃
Relative Humidity	:	46.4 % R.H.
Air Pressure	:	100.5 kPa

5.2 Test Set-up

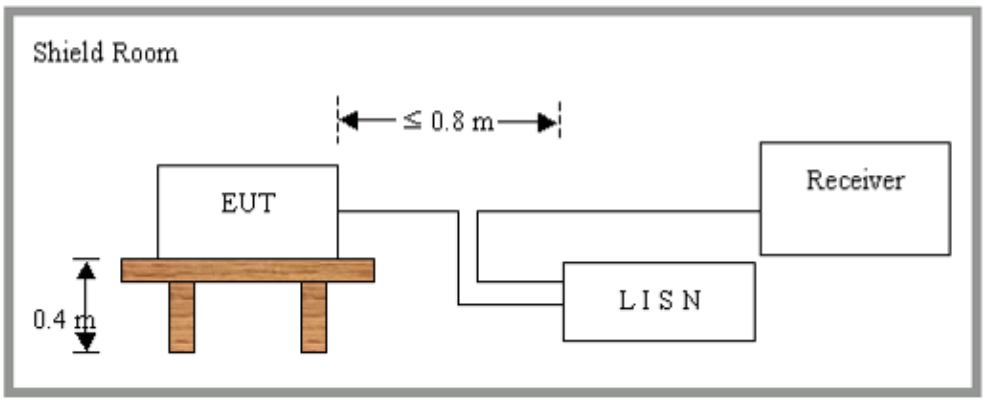
The Power Line disturbance voltage was measured with the equipment under test (EUT) in a shielded room. The EUT was connected to a line impedance stabilization network (LISN) placed on the floor. The EUT was placed on a non-metallic table 0.4 m above the metallic, grounded floor. The distance to other metallic surfaces was at least 0.8 m.

The vertical conducting surface was replaced with horizontal ground plane. Length of the power lead in excess of 80 cm horizontally separating the EUT from LISN was folded back-and-forth form at the center of the power cord not exceeding 40 cm in length.

Each type of accessory provided by manufacturer or typically used and support equipment were connected to the EUT during measurement to the typical usage and applicable as nearly as practicable.

The frequency range of 9 kHz to 30 MHz, Using CISPR Quasi-peak and average detector modes.

The line conducted emission measurement procedure and test configuration is based on MP-5:1986. Amplitude measurements were performed with a quasi-peak detector and, if required, with an average detector.



5.3 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)	3.4 dB	Confidence level of approximately 95 % (*k* = 2)
Conducted emission (150 kHz ~ 30 MHz)	2.7 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.

5.4 Limit

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

5.5 Test Equipment

Description	Model Name	Manufacturer	Serial Number	Due to Calibration
LISN	NNLK8129	Schwarzbeck	8129-206	2023-02-22
EMI Receiver	ESR3	ROHDE & SCHWARZ	101911	2023-02-21
Pulse Limiter	ESH3-Z2	ROHDE & SCHWARZ	102094	2023-02-21
Cable	Enviroflex 400	Enviroflex	-	2023-03-02

5.6 Test data for Conducted Emission

-. Test Date : August. 2, 2022 ~ August. 3, 2022
-. 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

5.6.1. Operating condition: Cooking element #1

Measurement table - *Conducted Emission,* 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03628	84.9	110.0	25.1
0.07260	64.8	86.6	21.8
0.10892	46.2	82.8	36.6

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

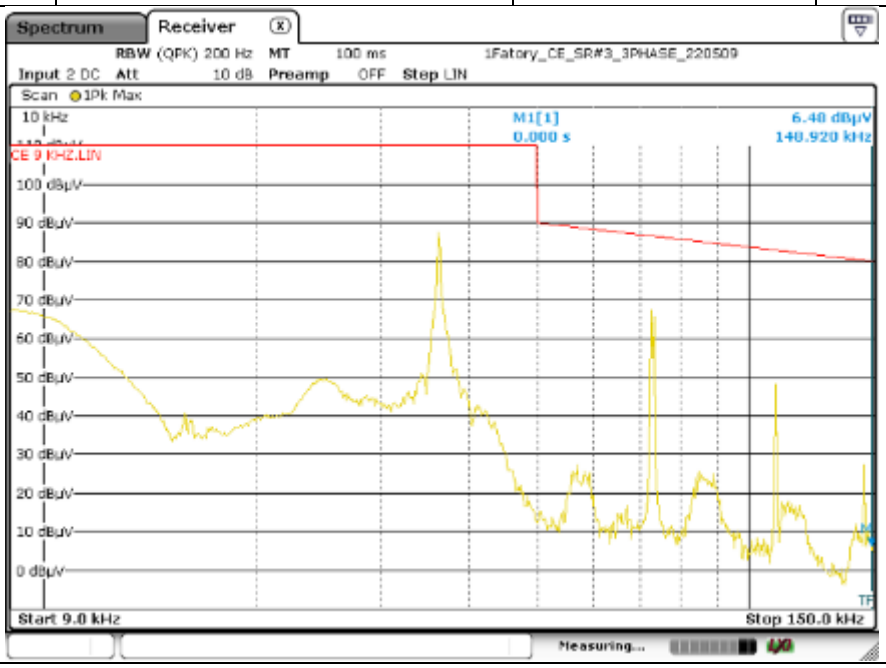
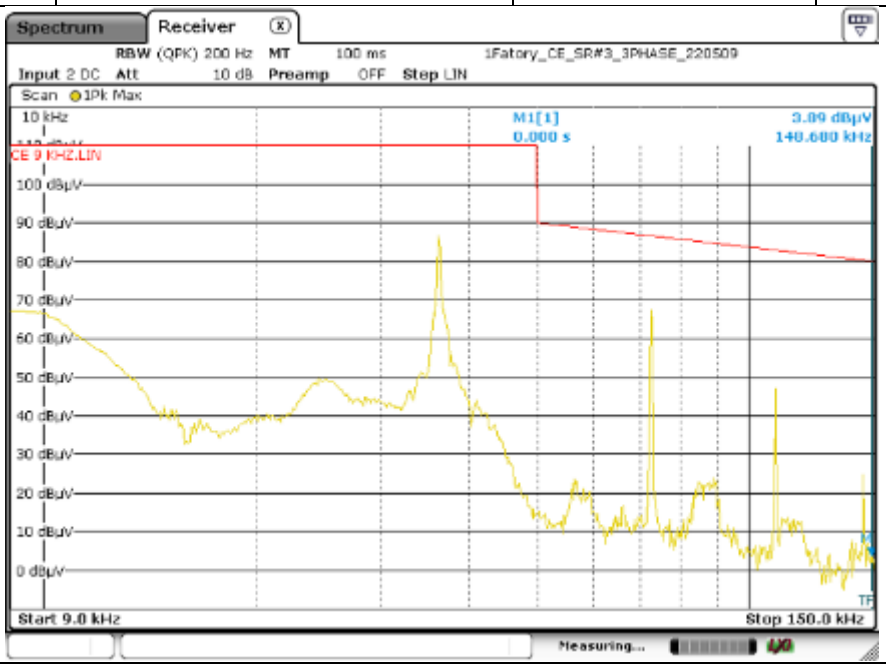
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03628	84.7	110.0	25.3
0.07260	64.9	86.6	21.7
0.10880	43.7	82.9	39.2

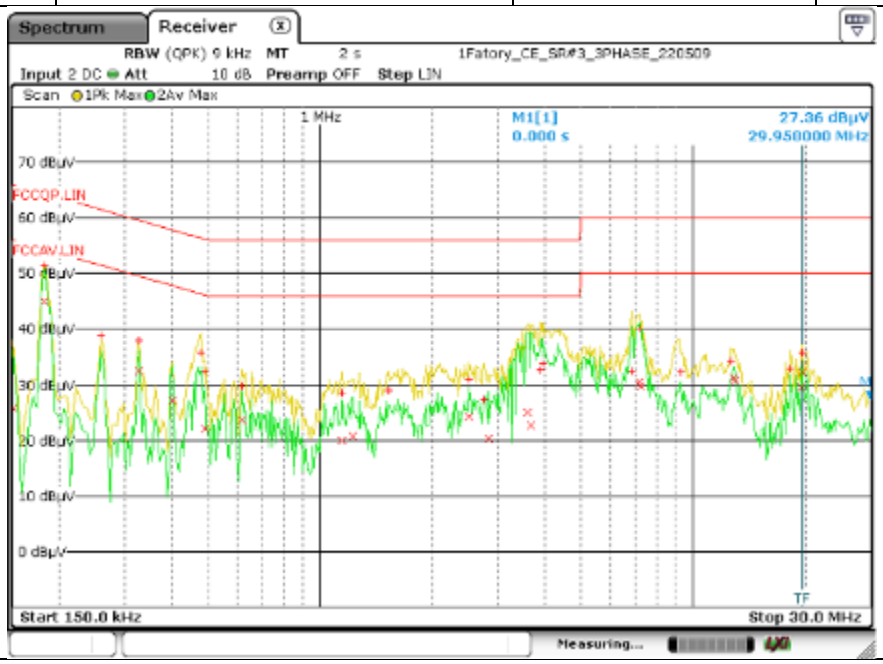
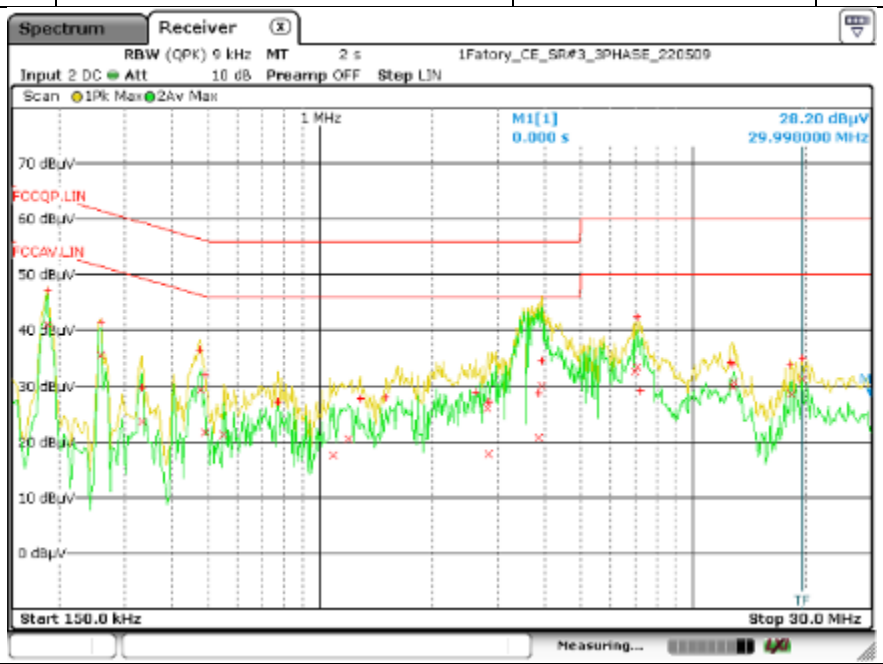
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.182	52.9	64.4	11.5	46.4	54.4	8.0
0.478	36.2	56.4	20.2	29.7	46.4	16.7
3.970	36.5	56.0	19.5	29.9	46.0	16.1
7.238	39.8	60.0	20.2	32.2	50.0	17.8

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.186	45.2	64.2	19.0	39.1	54.2	15.1
0.474	36.7	56.4	19.7	30.6	46.4	15.8
3.922	38.9	56.0	17.1	33.7	46.0	12.3
7.086	42.9	60.0	17.1	36.0	50.0	14.0

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

5.6.2. Operating condition: Cooking element #2

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03644	79.5	110.0	30.5
0.07292	63.4	86.5	23.1
0.10924	47.8	82.8	35.0

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

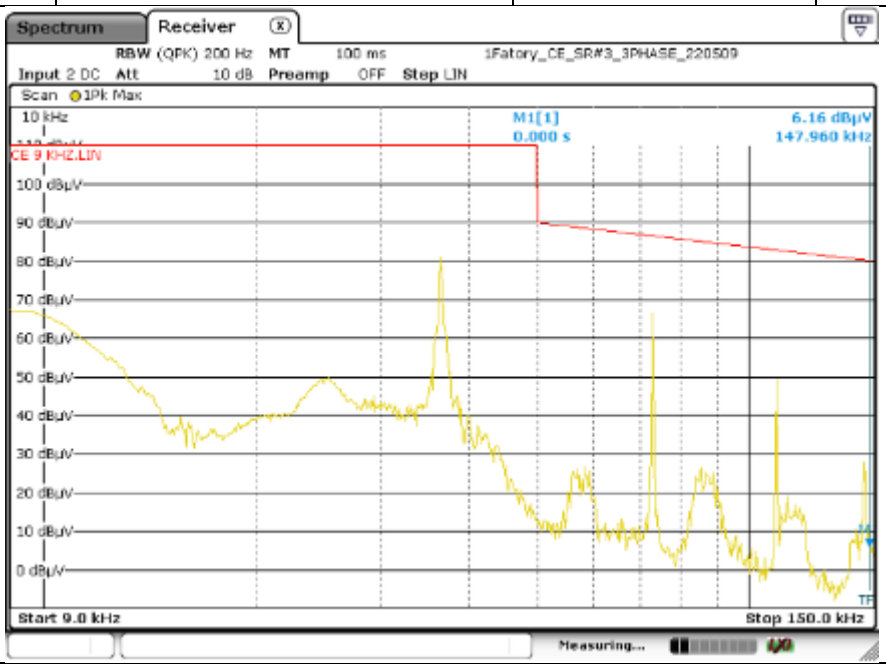
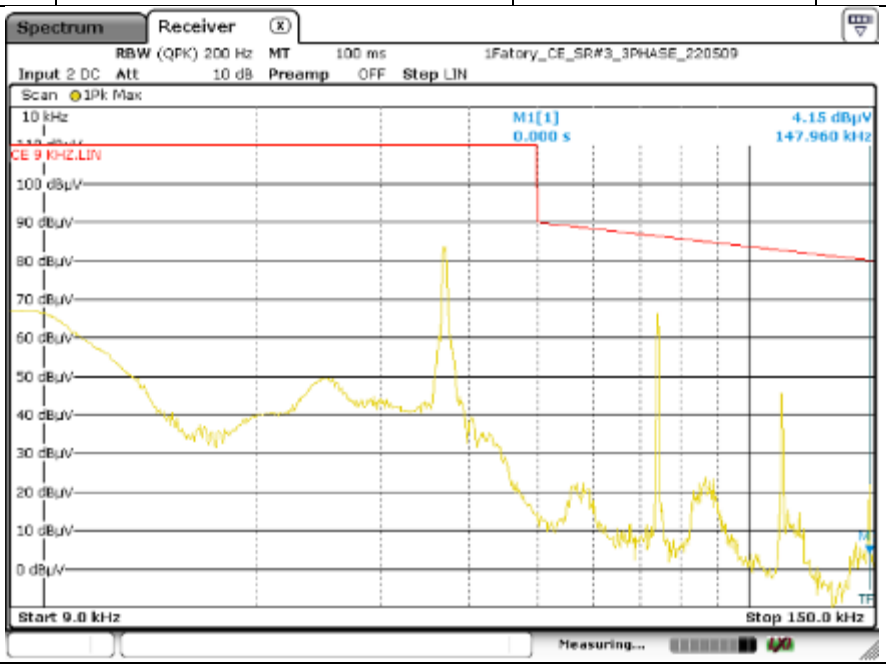
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03716	81.7	110.0	28.3
0.07300	57.8	86.5	28.7
0.10916	42.4	82.8	40.4

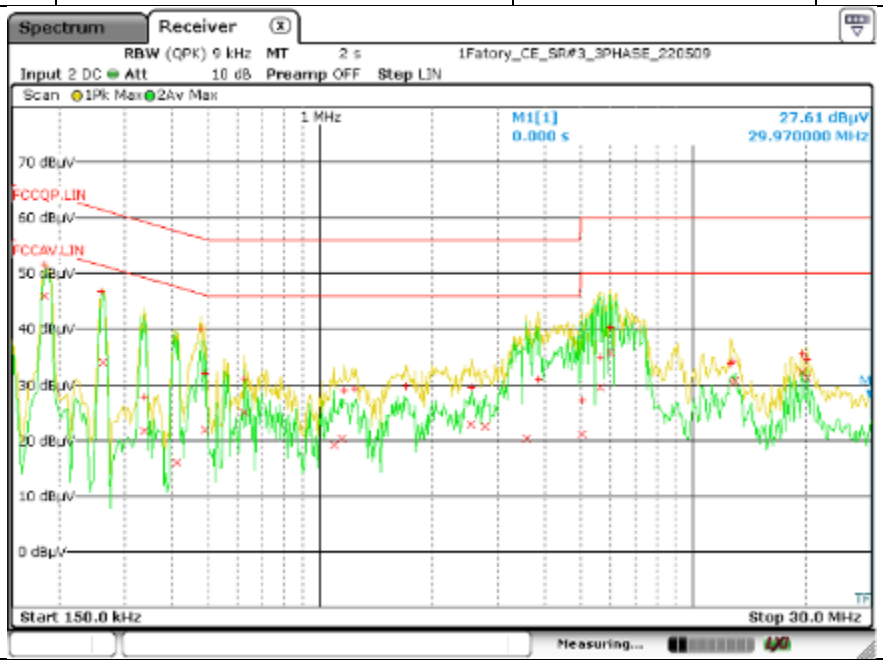
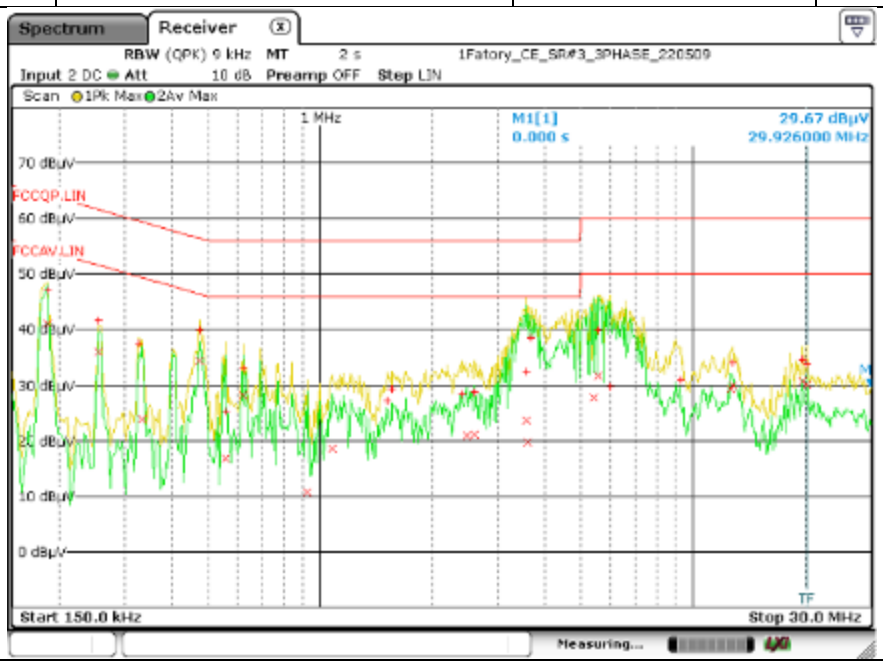
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				Verdict
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.182	53.5	64.4	10.9	47.5	54.4	6.9
0.478	38.2	56.4	18.2	31.9	46.4	14.5
3.854	30.9	56.0	25.1	21.7	46.0	24.3
5.946	40.7	60.0	19.3	32.7	50.0	17.3

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.186	48.4	64.2	15.8	42.2	54.2	12.0
0.474	40.3	56.4	16.1	34.6	46.4	11.8
3.666	29.0	56.0	27.0	22.5	46.0	23.5
5.574	40.3	60.0	19.7	35.0	50.0	15.0

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

5.6.3. Operating condition: Cooking element #3

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03636	71.7	110.0	38.3
0.07292	67.2	86.5	19.3
0.10892	42.9	82.8	39.9

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

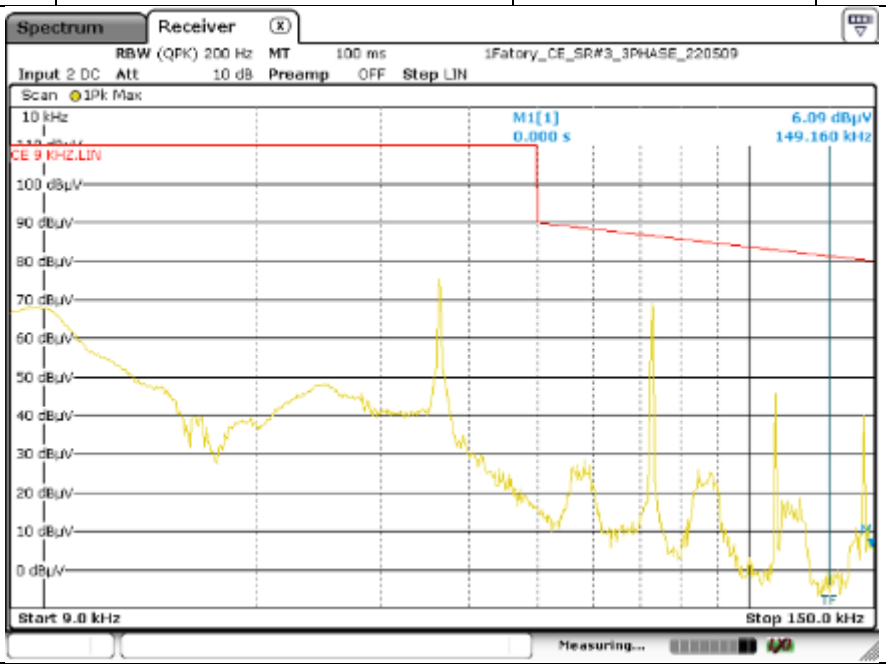
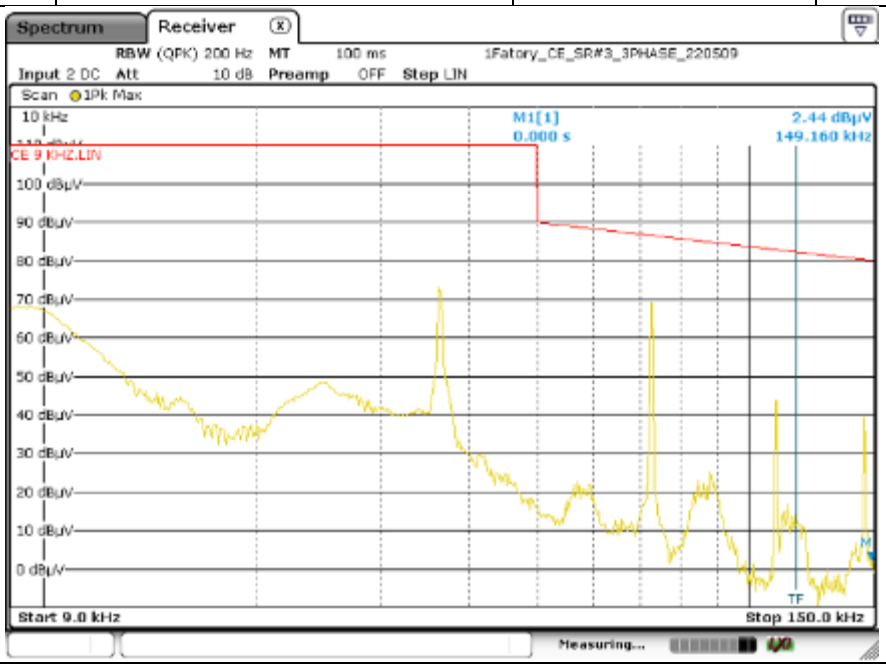
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03628	70.2	110.0	39.8
0.07252	62.8	86.6	23.8
0.10916	40.1	82.8	42.7

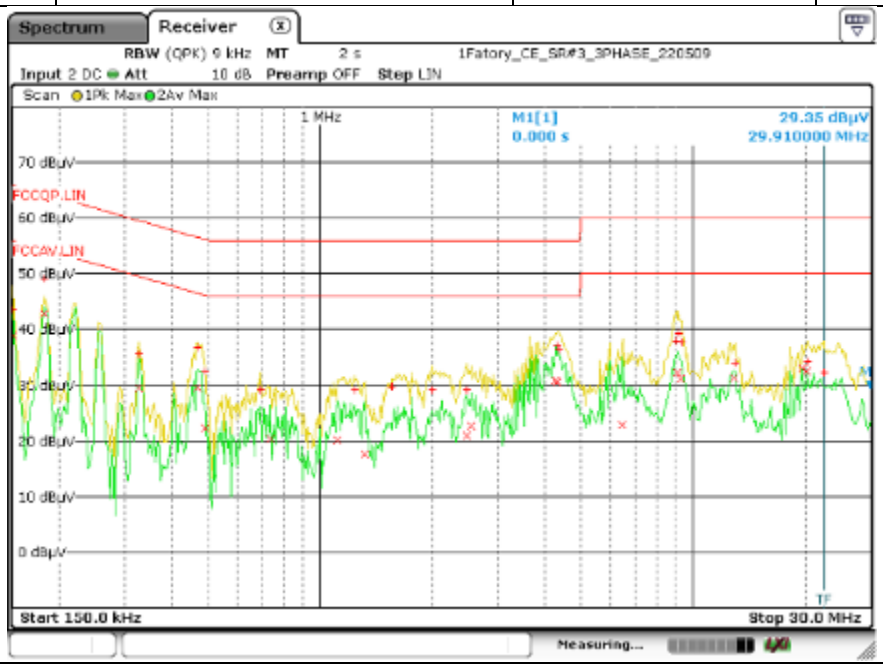
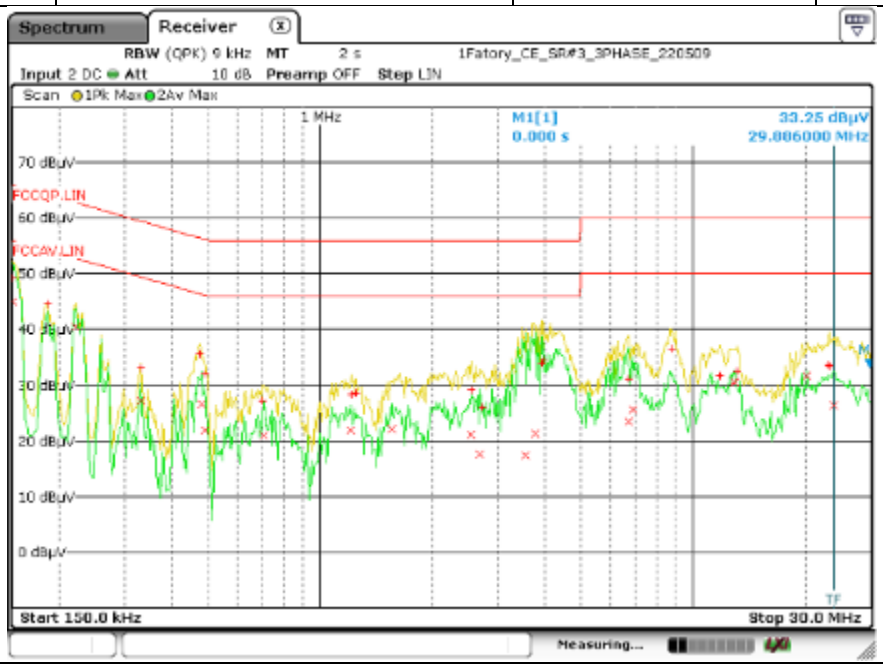
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.182	49.9	64.4	14.5	43.9	54.4	10.5
0.474	37.2	56.4	19.2	30.8	46.4	15.6
4.378	36.4	56.0	19.6	27.0	46.0	19.0
9.178	39.6	60.0	20.4	32.6	50.0	17.4

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.150	41.6	66.0	24.4	37.4	56.0	18.6
0.474	35.9	56.4	20.5	29.7	46.4	16.7
3.926	33.8	56.0	22.2	26.6	46.0	19.4
8.794	37.9	60.0	22.1	31.3	50.0	18.7

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

5.6.4. Operating condition: Cooking element #4

Measurement table - *Conducted Emission,* 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03964	62.2	110.0	47.8
0.07924	58.4	85.8	27.4
0.11884	39.8	82.0	42.2

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

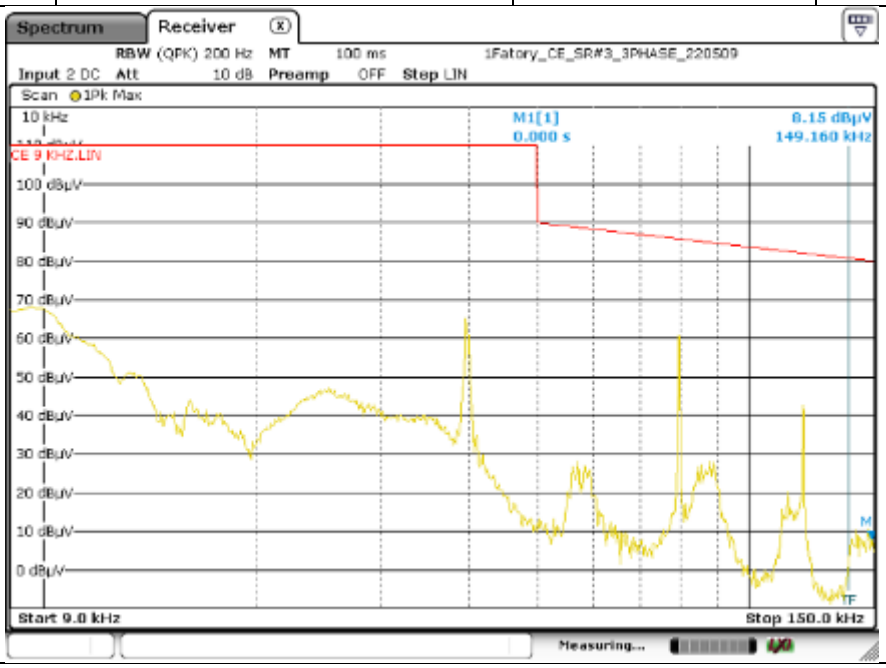
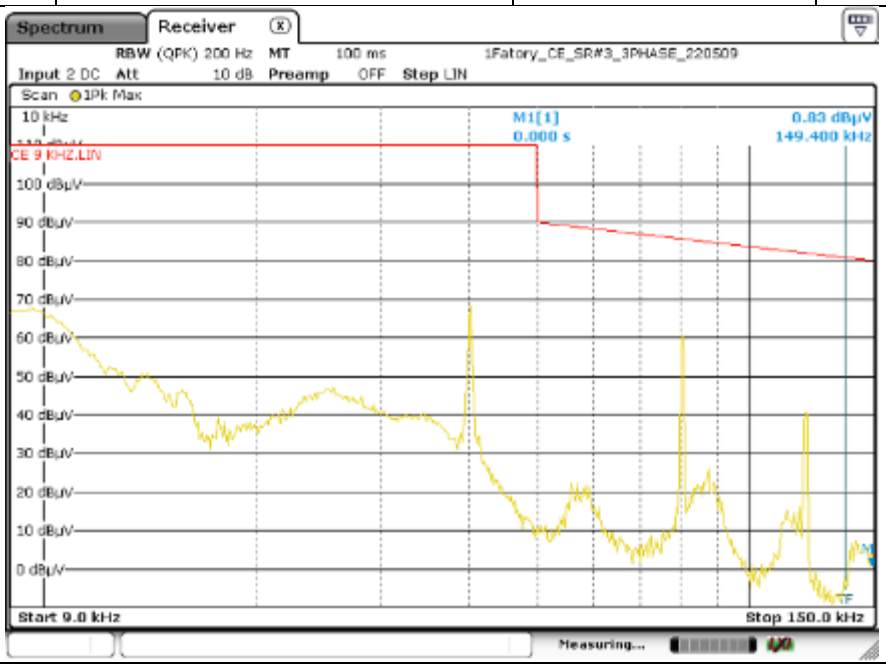
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03988	64.2	110.0	45.8
0.07956	58.5	85.7	27.2
0.11868	27.8	82.1	54.3

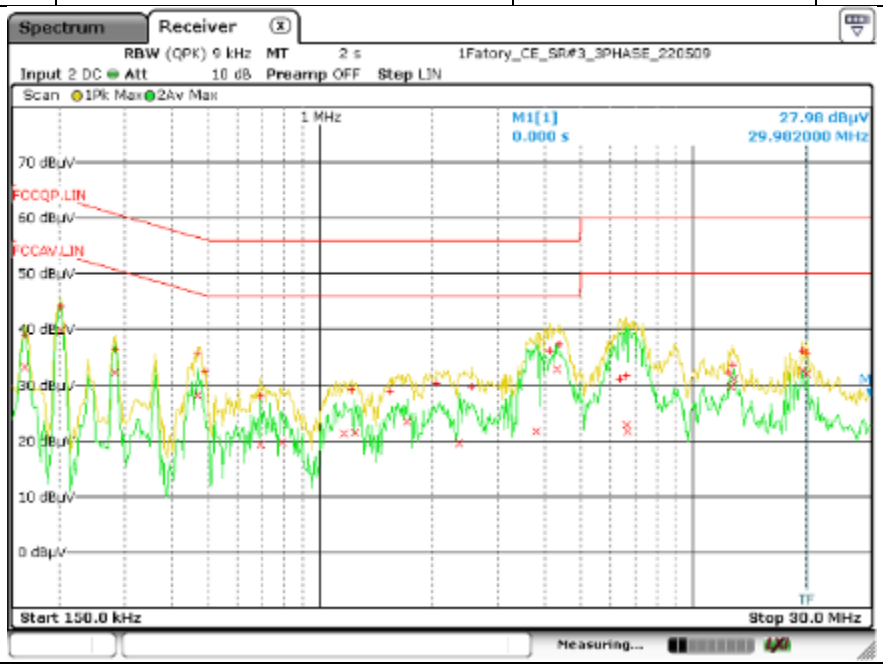
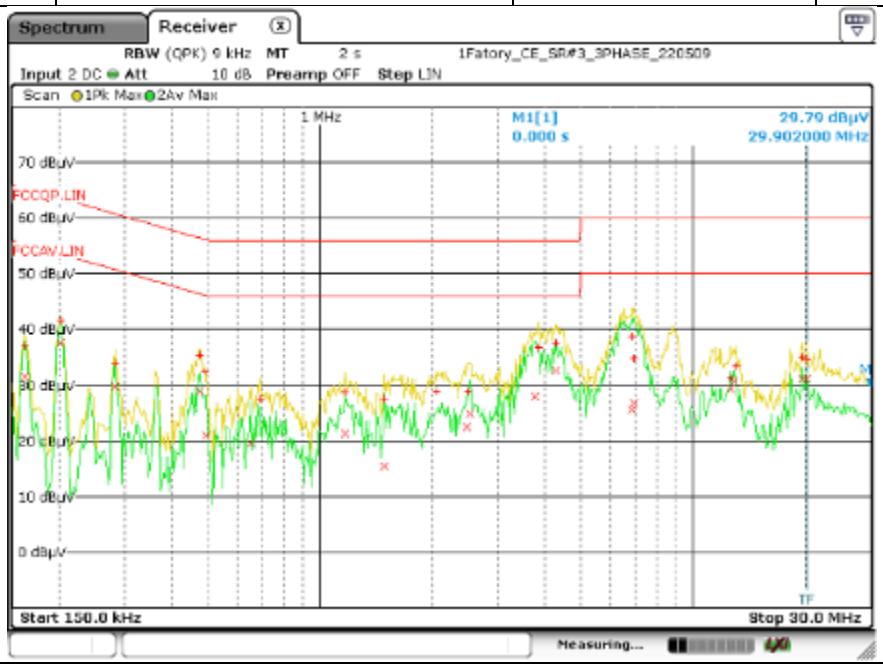
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				Verdict
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.202	42.4	63.5	21.1	38.0	53.5	15.5
0.470	36.0	56.5	20.5	28.4	46.5	18.1
4.382	37.2	56.0	18.8	31.4	46.0	14.6
6.618	40.0	60.0	20.0	30.9	50.0	19.1

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.202	40.2	63.5	23.3	36.1	53.5	17.4
0.474	35.6	56.4	20.8	29.3	46.4	17.1
4.302	38.0	56.0	18.0	32.9	46.0	13.1
6.878	36.2	60.0	23.8	27.6	50.0	22.4

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

5.6.5. Operating condition: Cooking element #5

Measurement table - *Conducted Emission,* 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03628	87.4	110.0	22.6
0.07172	67.3	86.7	19.4
0.10764	47.9	83.0	35.1

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

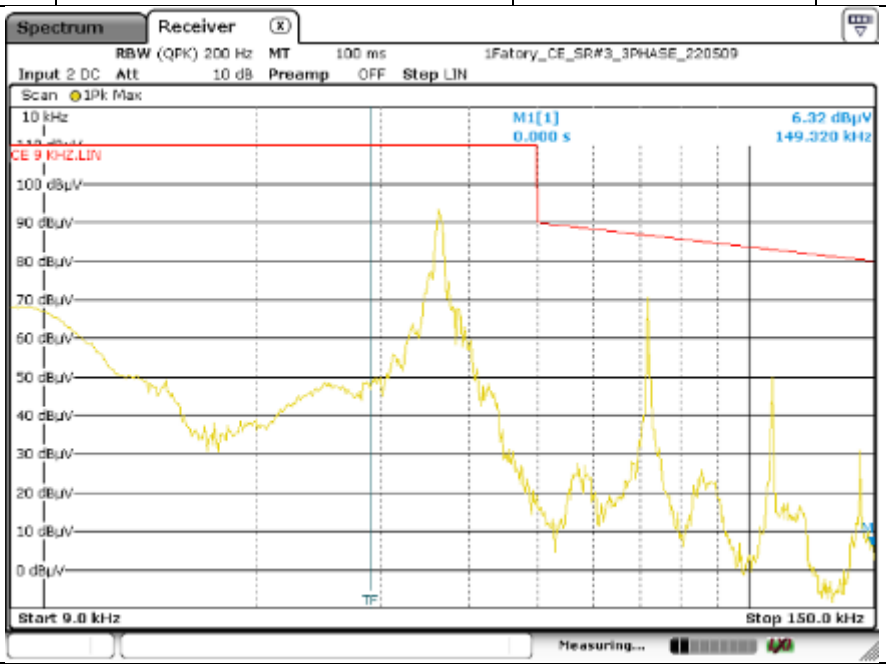
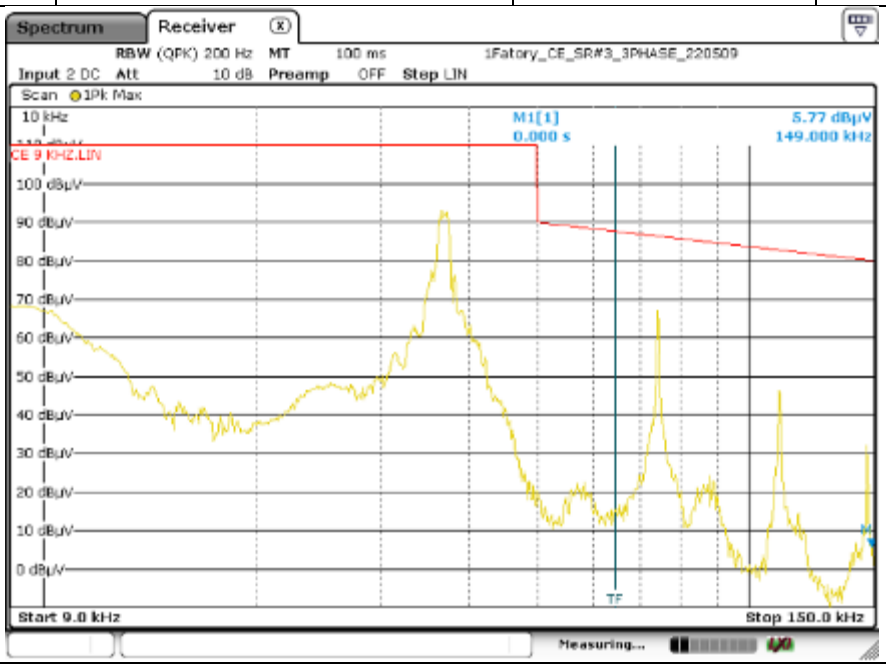
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03660	90.4	110.0	19.6
0.07252	65.5	86.6	21.1
0.10844	45.0	82.9	37.9

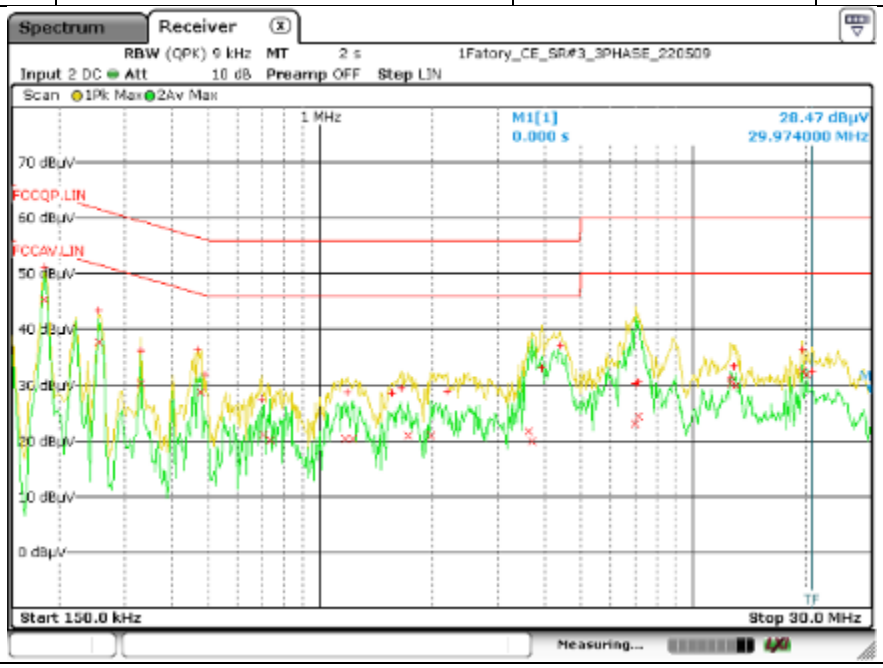
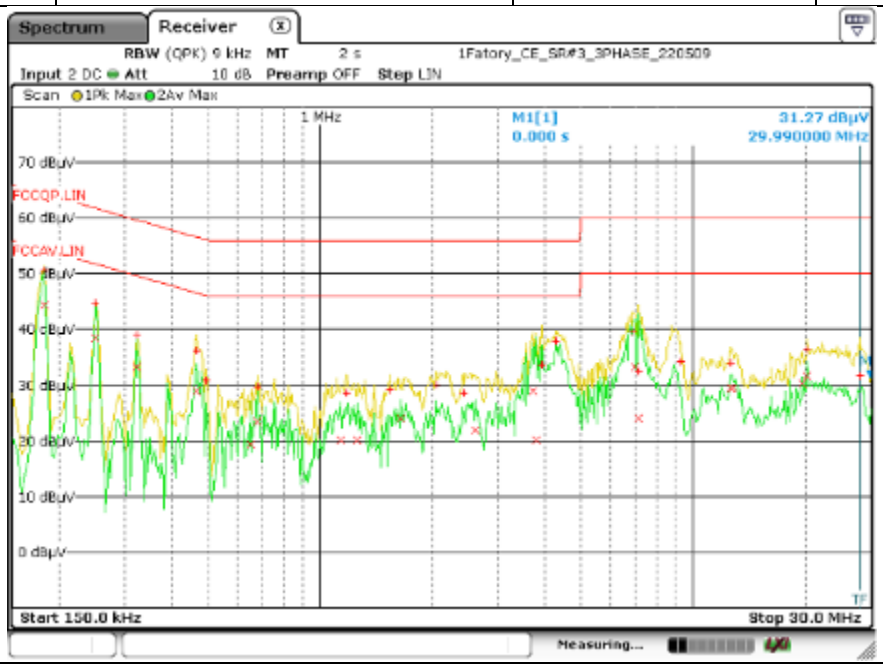
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.182	52.7	64.4	11.7	46.4	54.4	8.0
0.470	37.6	56.5	18.9	30.2	46.5	16.3
4.414	37.6	56.0	18.4	33.0	46.0	13.0
7.002	29.6	60.0	30.4	23.8	50.0	26.2

Test voltage	208 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.182	52.7	64.4	11.7	46.4	54.4	8.0
0.466	37.3	56.6	19.3	29.1	46.6	17.5
4.300	37.7	56.0	18.3	29.5	46.0	16.5
6.914	41.4	60.0	18.6	33.8	50.0	16.2

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	208 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	208 V, 60 Hz	Measured terminal	N	**P**
				

5.6.6. Operating condition: Cooking element #1

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03780	81.7	110.0	28.3
0.07572	63.8	86.2	22.4
0.11348	48.8	82.5	33.7

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

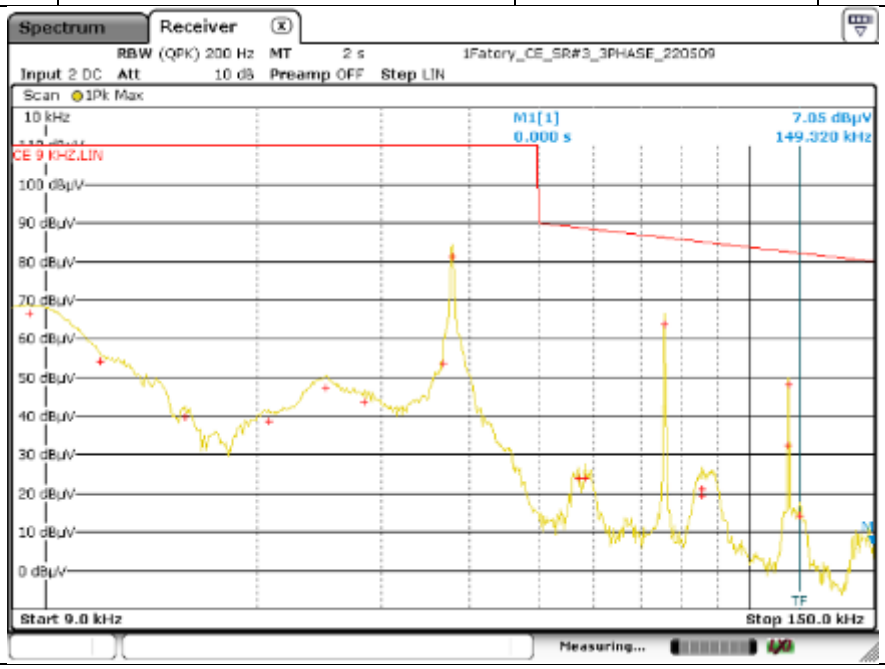
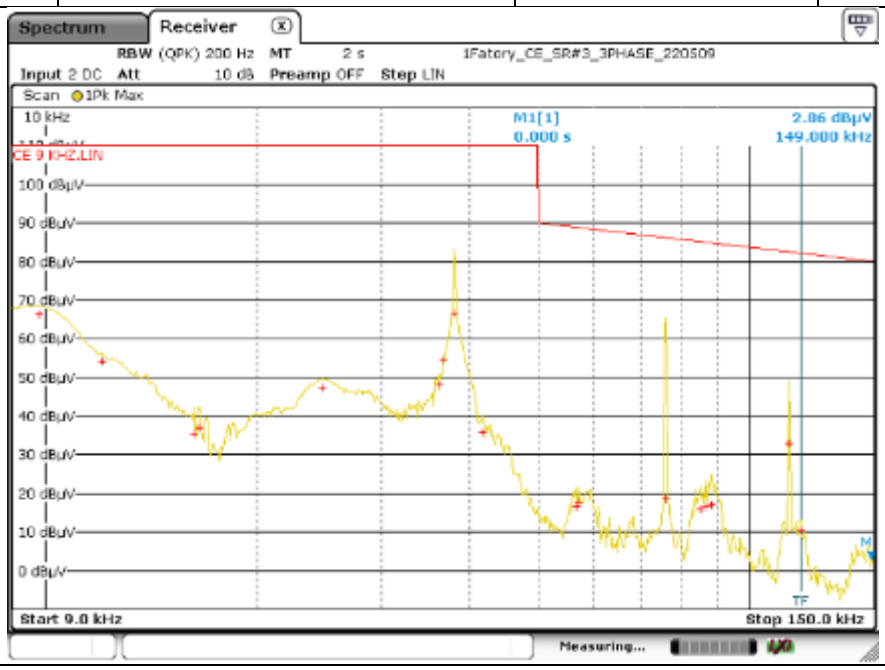
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03804	72.7	110.0	37.3
0.07604	64.1	86.1	22.0
0.11372	45.9	82.5	36.6

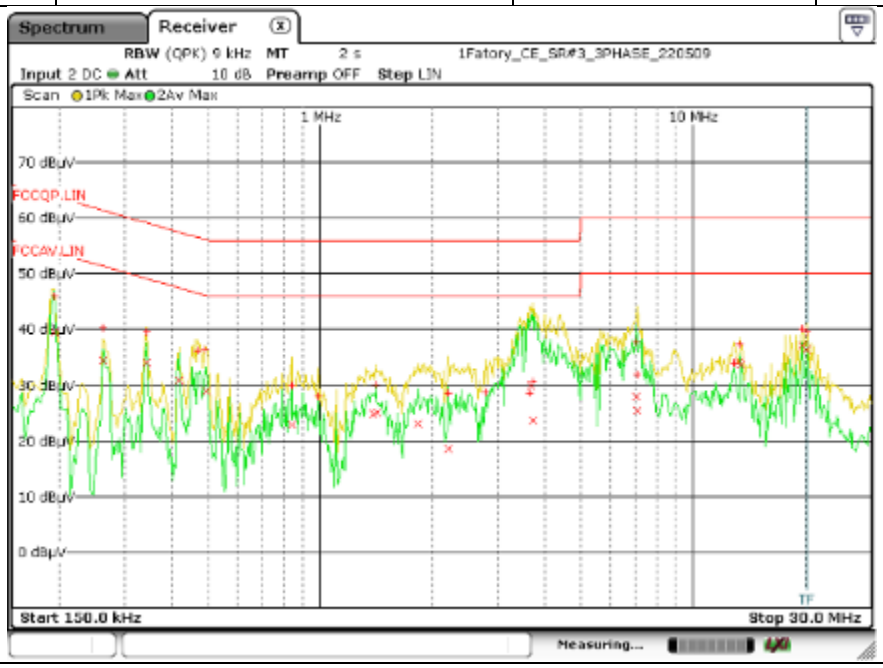
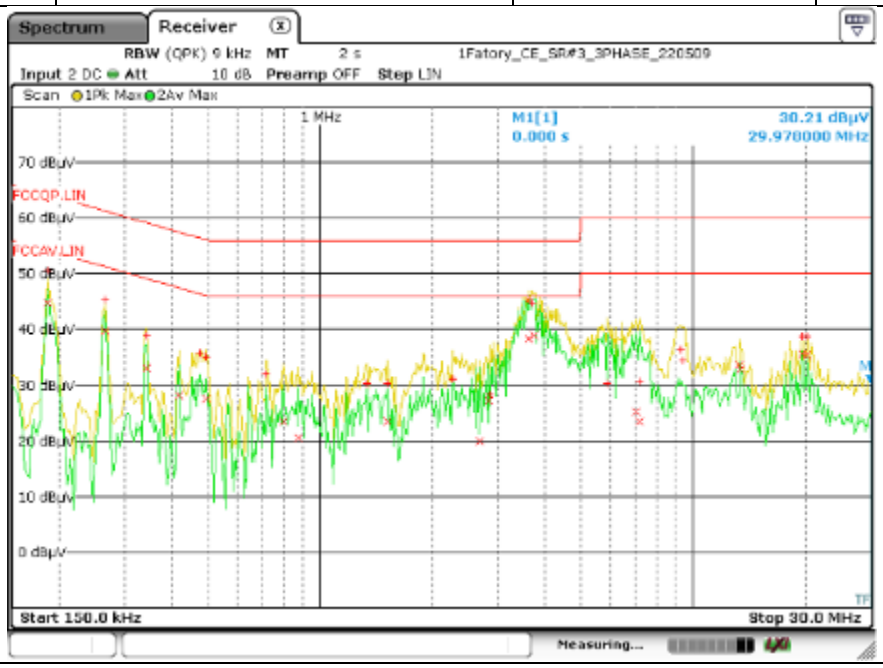
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				Verdict
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.194	46.1	63.9	17.8	39.7	53.9	14.2
0.470	34.9	56.5	21.6	25.1	46.5	21.4
3.746	42.3	56.0	13.7	36.6	46.0	9.4
7.146	38.5	60.0	21.5	29.7	50.0	20.3

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.186	52.2	64.2	12.0	46.2	54.2	8.0
0.482	35.7	56.3	20.6	28.0	46.3	18.3
3.634	45.4	56.0	10.6	37.6	46.0	8.4
5.894	38.9	60.0	21.1	28.8	50.0	21.2

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

5.6.7. Operating condition: Cooking element #2

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03788	79.1	110.0	30.9
0.07572	63.4	86.2	22.8
0.11356	47.6	82.5	34.9

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03780	81.9	110.0	28.1
0.07572	60.4	86.2	25.8
0.11332	46.4	82.5	36.1

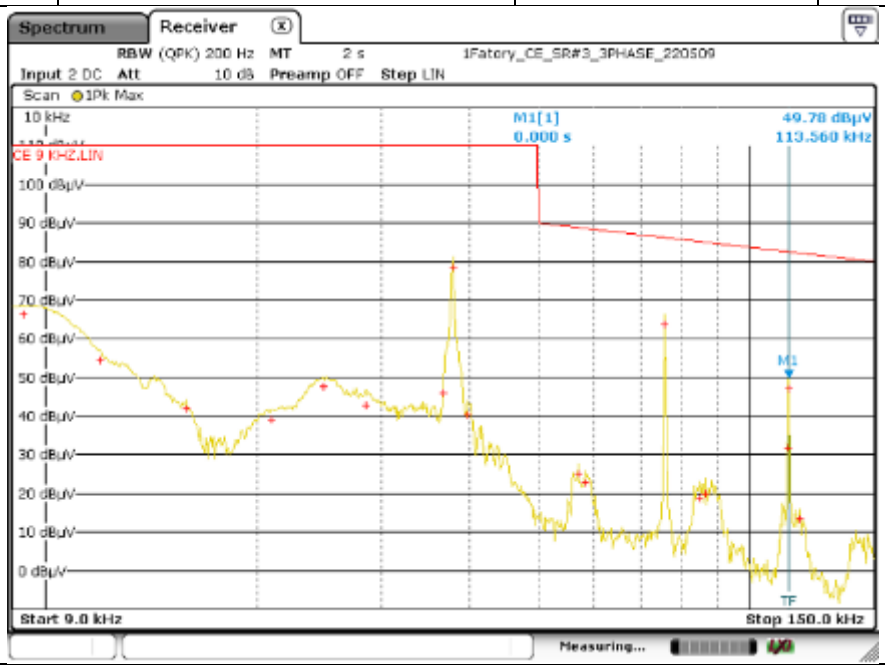
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.190	53.7	64.0	10.3	47.6	54.0	6.4
0.494	38.2	56.1	17.9	32.9	46.1	13.2
3.674	42.6	56.0	13.4	36.2	46.0	9.8
6.194	46.9	60.0	13.1	37.9	50.0	12.1

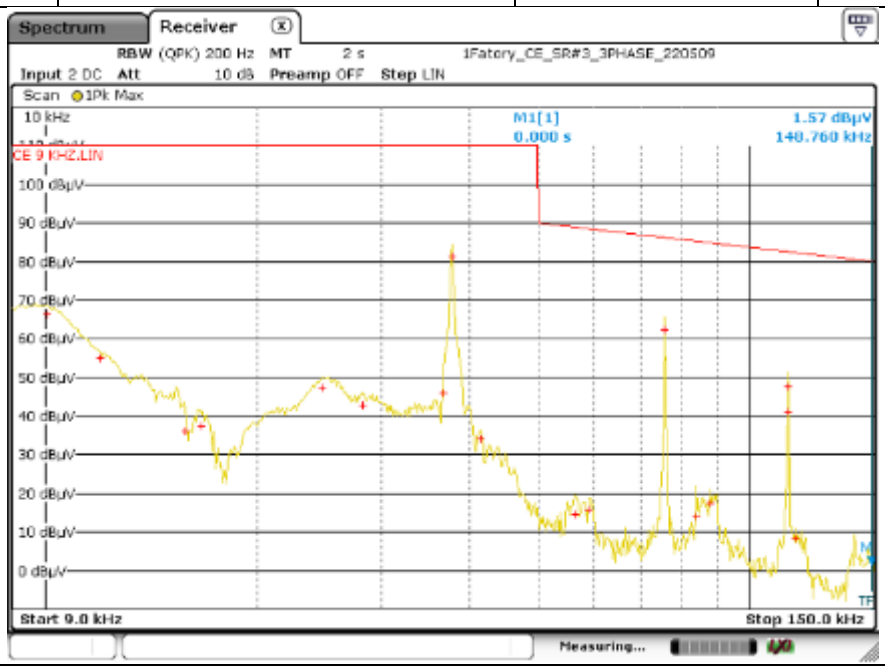
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

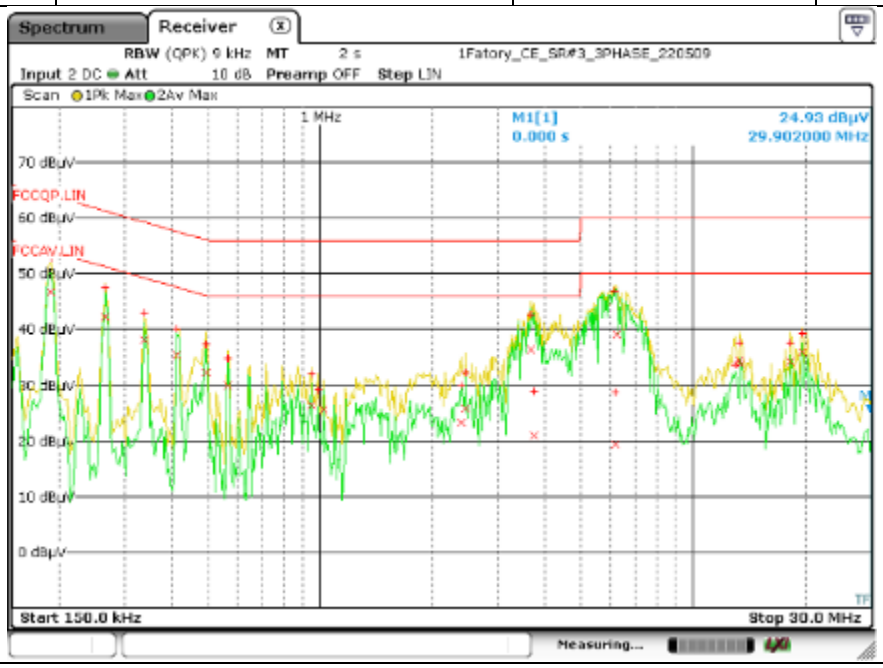
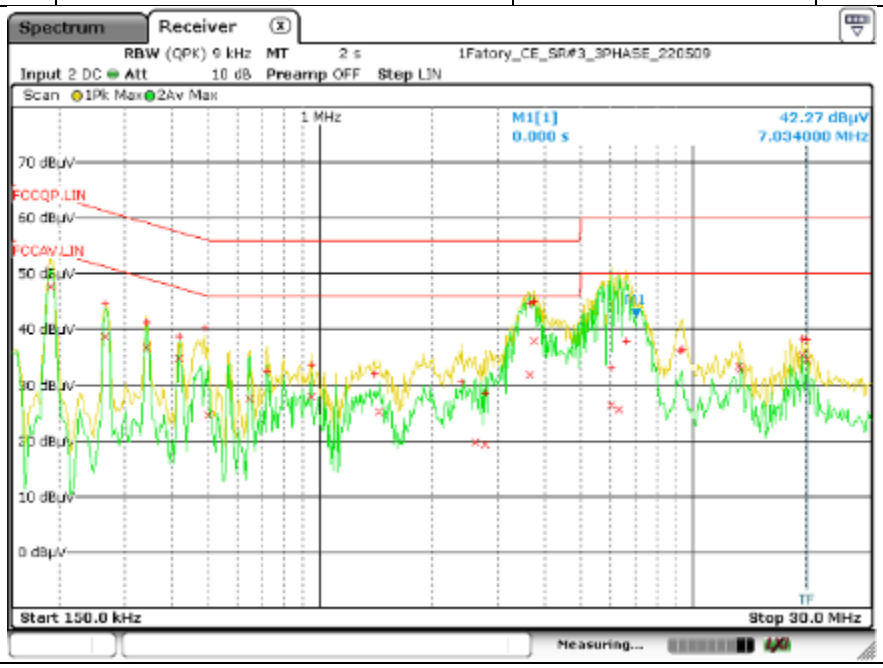
Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.190	55.7	64.0	8.3	49.0	54.0	5.0
0.490	40.2	56.2	16.0	34.9	46.2	11.3
3.750	44.7	56.0	11.3	36.1	46.0	9.9
6.650	39.1	60.0	20.9	29.5	50.0	20.5

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**



Test voltage	240 V, 60 Hz	Measured terminal	N	**P**



***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

5.6.8. Operating condition: Cooking element #3

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03772	71.9	110.0	38.1
0.07532	66.9	86.2	19.3
0.11276	42.8	82.5	39.7

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

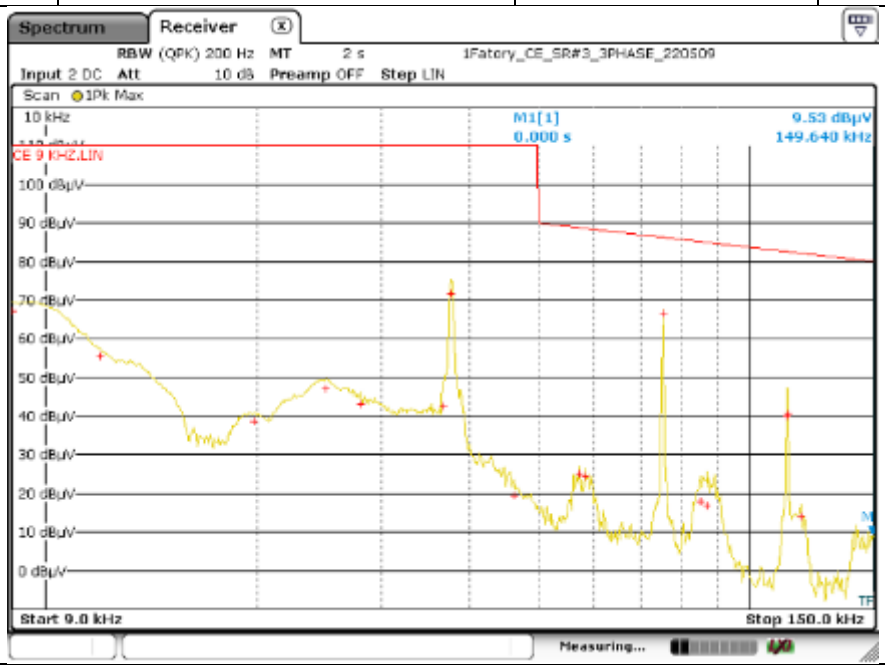
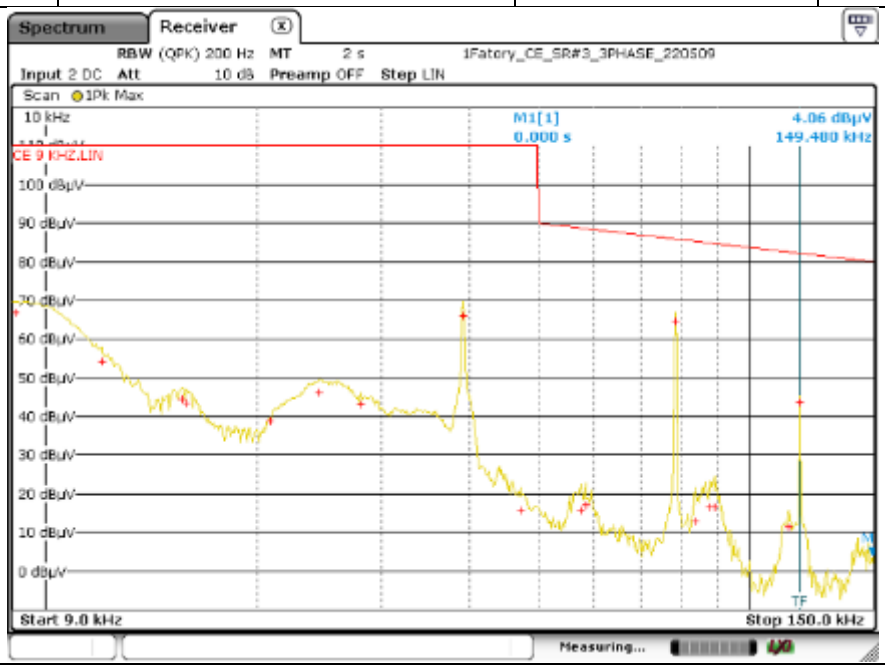
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03916	66.1	110.0	43.9
0.07844	64.7	85.9	21.2
0.11764	44.0	82.1	38.1

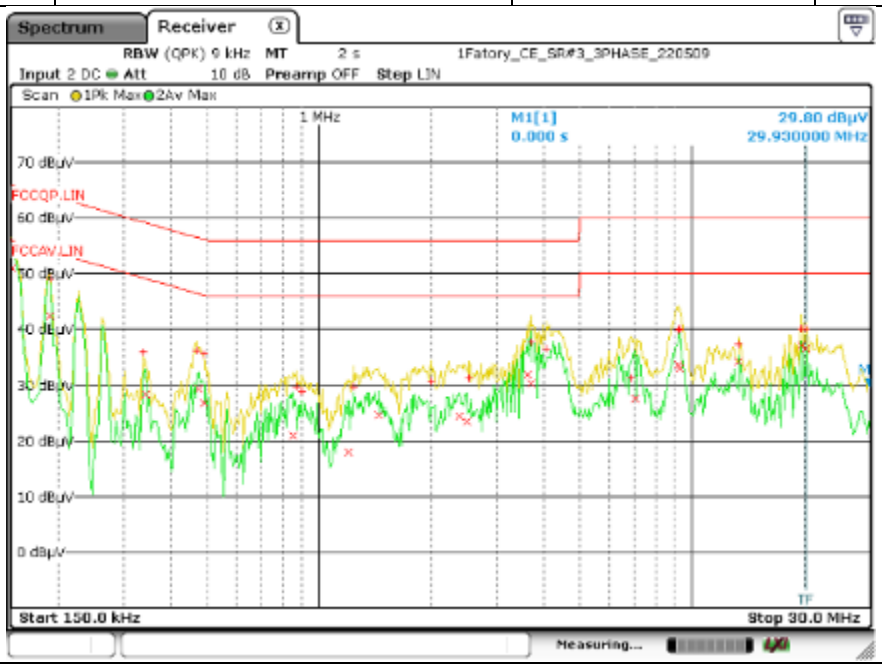
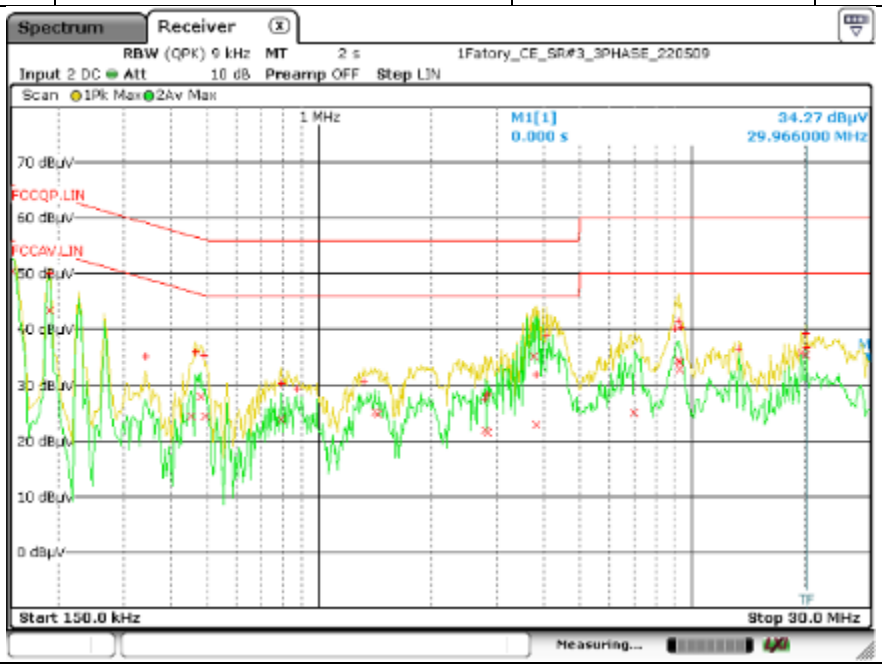
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.150	55.9	66.0	10.1	51.2	56.0	4.8
0.478	36.4	56.4	20.0	29.3	46.4	17.1
3.698	37.0	56.0	19.0	28.8	46.0	17.2
9.234	40.9	60.0	19.1	34.0	50.0	16.0

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.150	55.0	66.0	11.0	50.6	56.0	5.4
0.470	36.6	56.5	19.9	28.2	46.5	18.3
3.850	40.4	56.0	15.6	32.1	46.0	13.9
9.238	41.5	60.0	18.5	34.4	50.0	15.6

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

5.6.9. Operating condition: Cooking element #4

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.04036	60.4	110.0	49.6
0.08060	58.6	85.6	27.0
0.12092	42.2	81.9	39.7

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

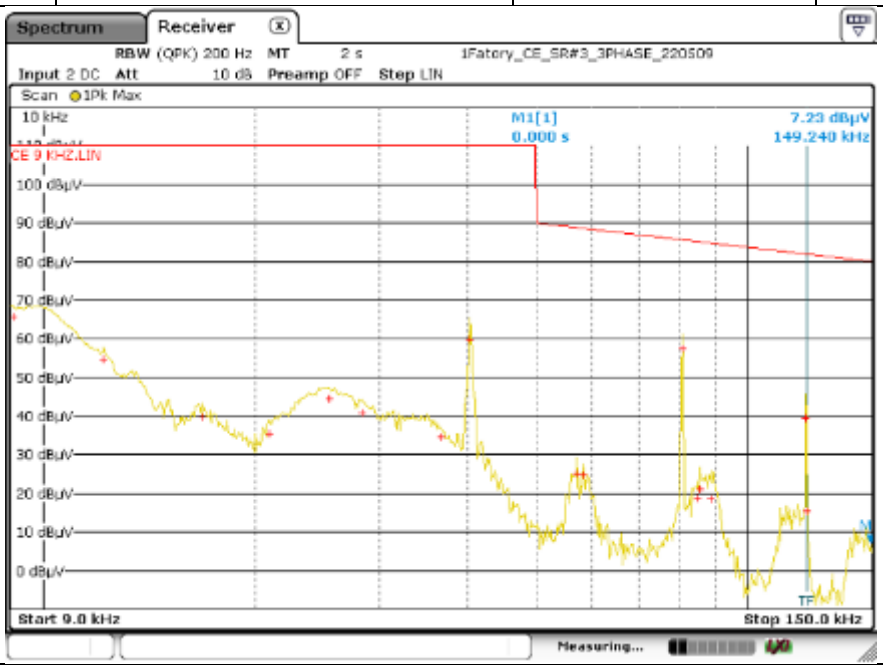
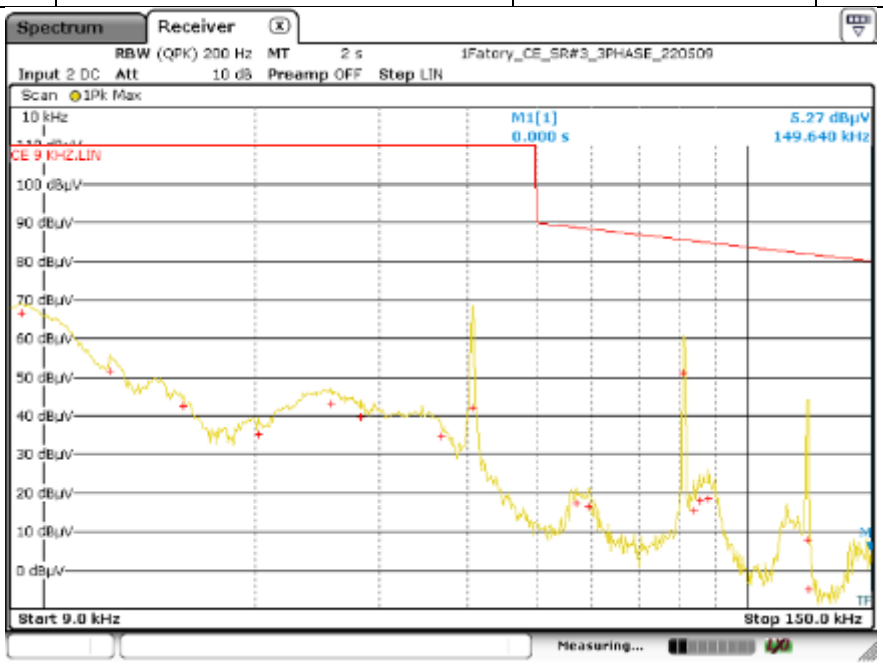
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.04068	60.5	110.0	49.5
0.08092	59.1	85.6	26.5
0.12100	39.2	81.9	42.7

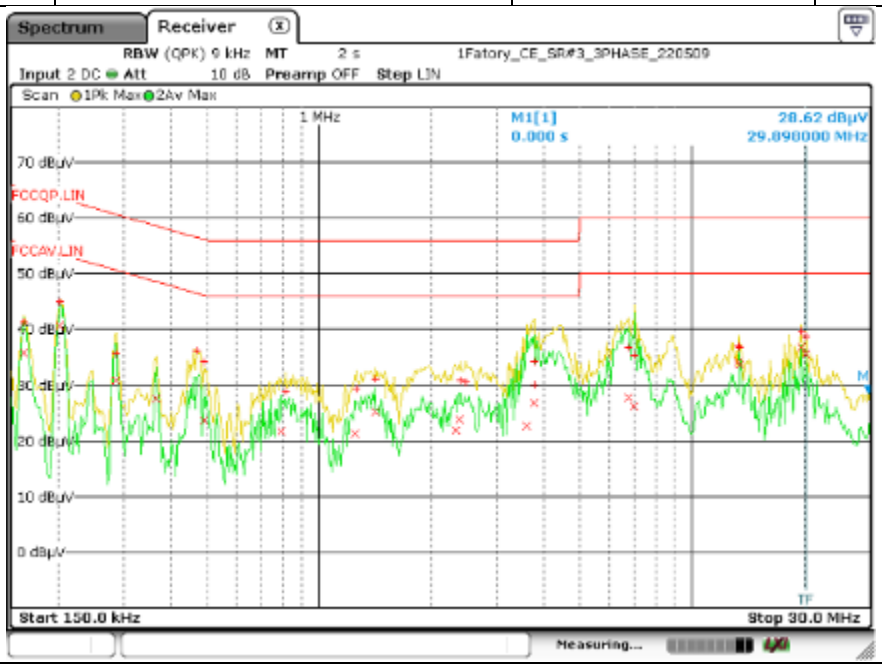
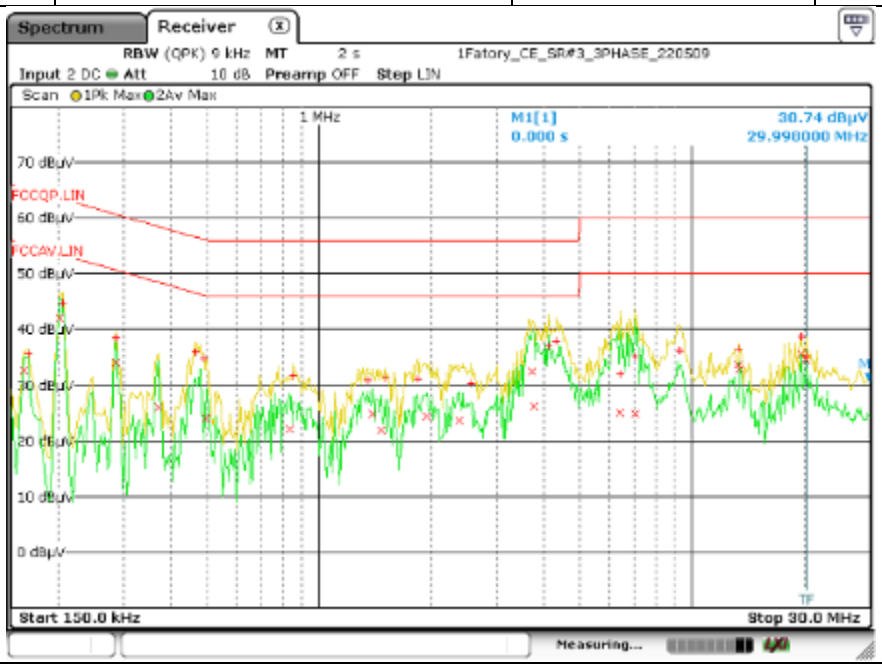
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.202	45.4	63.5	18.1	41.0	53.5	12.5
0.470	36.4	56.5	20.1	28.1	46.5	18.4
3.734	34.5	56.0	21.5	25.7	46.0	20.3
6.806	38.1	60.0	21.9	29.4	50.0	20.6

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.206	45.1	63.4	18.3	40.9	53.4	12.5
0.470	36.8	56.5	19.7	28.5	46.5	18.0
4.306	38.9	56.0	17.1	33.2	46.0	12.8
7.054	32.5	60.0	27.5	23.6	50.0	26.4

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

5.6.10. Operating condition: Cooking element #5

Measurement table - *Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03924	85.6	110.0	24.4
0.07844	62.9	85.9	23.0
0.11764	48.0	82.1	34.1

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

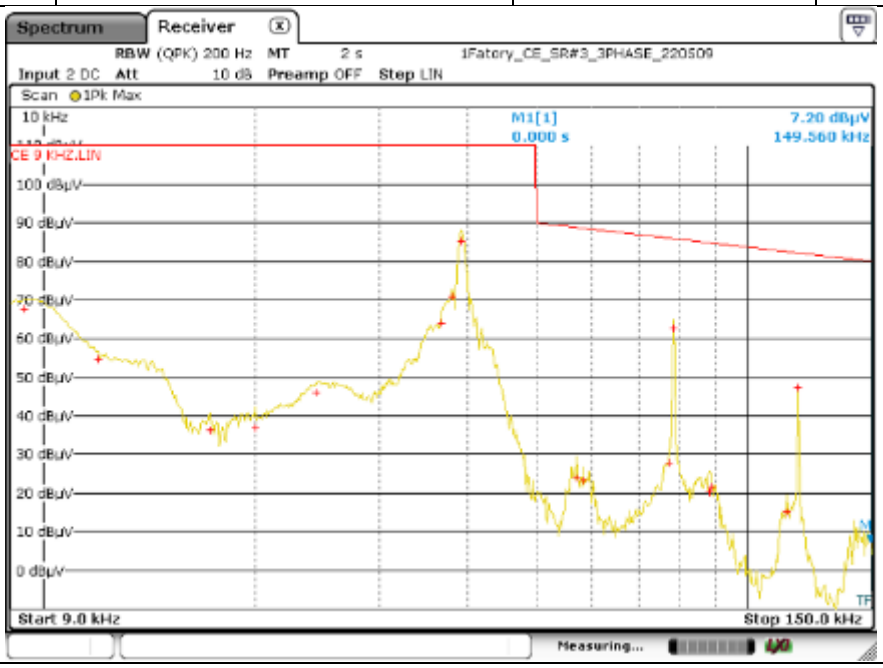
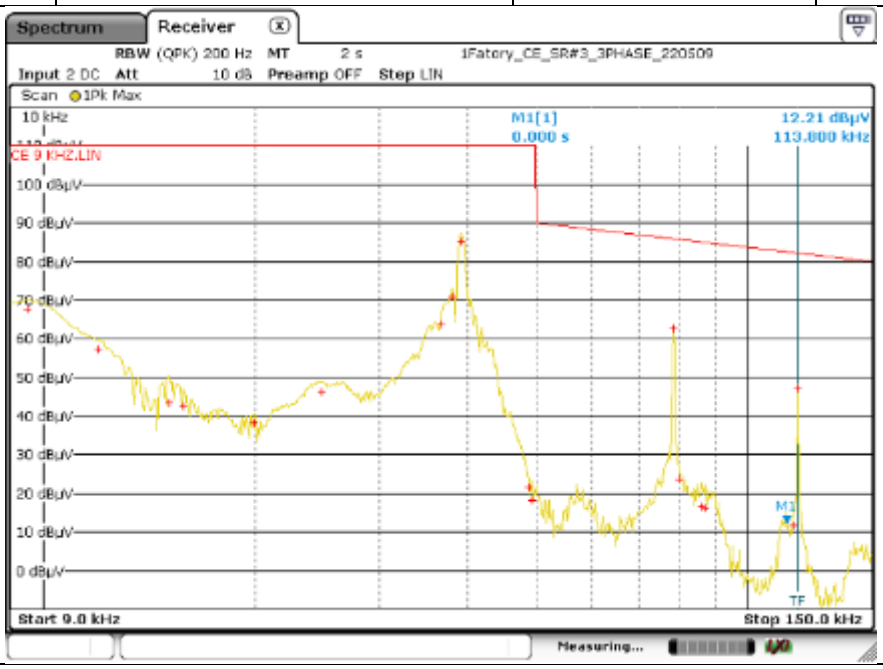
Frequency [MHz]	Quasi-Peak		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.03924	85.5	110.0	24.5
0.07844	62.9	85.9	23.0
0.11764	47.7	82.1	34.4

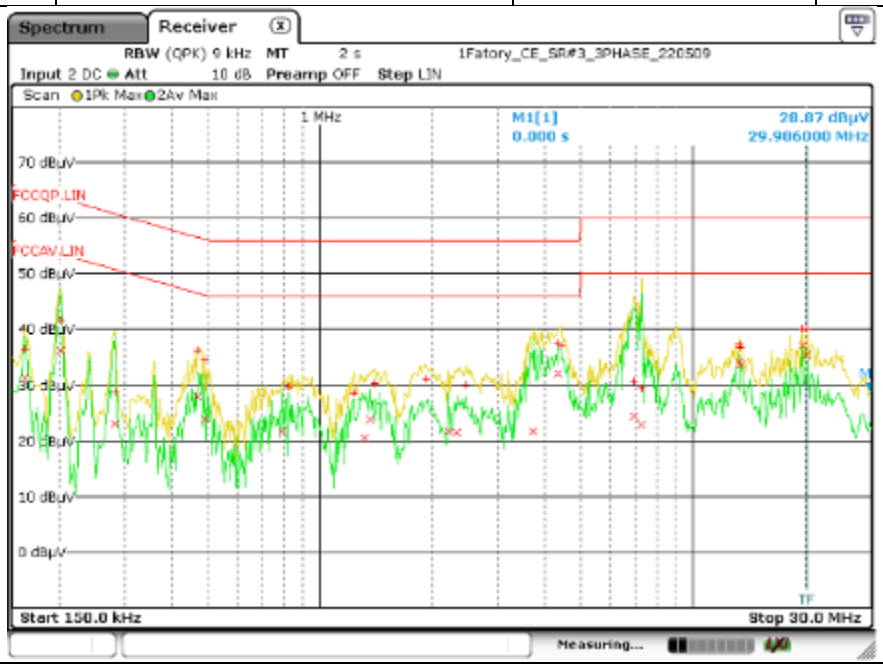
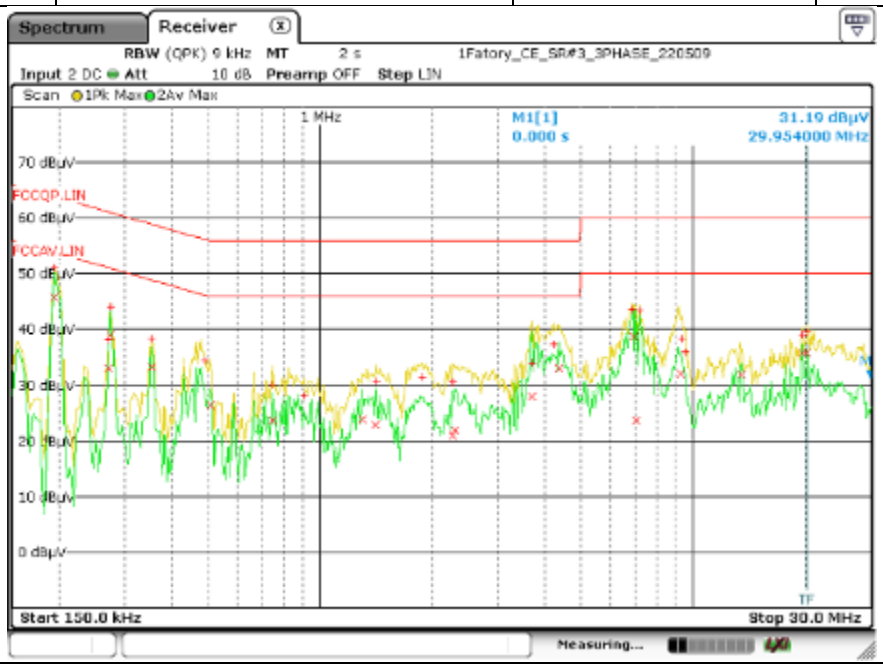
Measurement table - *Conducted Emission,* 0.15 MHz to 30 MHz, AC mains				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.198	50.1	63.7	13.6	45.0	53.7	8.7
0.470	36.4	56.5	20.1	28.2	46.5	18.3
4.394	37.9	56.0	18.1	29.7	46.0	16.3
7.246	31.2	60.0	28.8	25.5	50.0	24.5

Test voltage	240 V, 60 Hz	Measured terminal	N	**P**

Frequency [MHz]	Quasi-Peak			CISPR-Average		
	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]	Disturbance Level [dBµV]	Permitted Limit [dBµV]	Margin [dB]
0.194	51.9	63.9	12.0	46.8	53.9	7.1
0.482	35.7	56.3	20.6	28.0	46.3	18.3
4.234	36.2	56.0	19.8	27.9	46.0	18.1
6.938	44.0	60.0	16.0	38.9	50.0	11.1

***Spectral Diagrams - Conducted Emission*, 0.009 MHz to 0.15 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

***Spectral Diagrams - Conducted Emission,* 0.15 MHz to 30 MHz, AC mains**				**Verdict**
Test voltage	240 V, 60 Hz	Measured terminal	L1	**P**
				
Test voltage	240 V, 60 Hz	Measured terminal	N	**P**
				

6. Radiated Emission

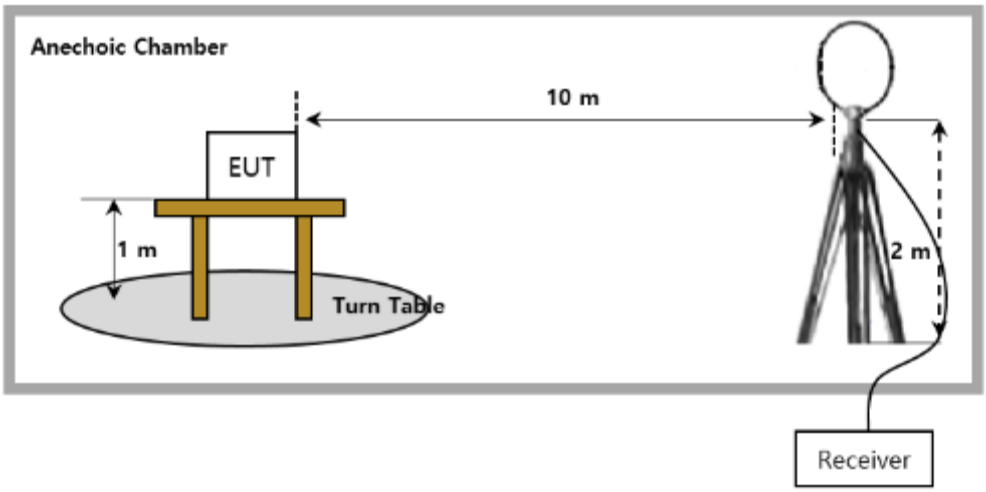
6.1 Operating Environment

Temperature	:	24.1 ℃
Relative Humidity	:	45.4 % R.H.
Air Pressure	:	100.6 kPa

6.2 Test Set-up

The Radiated emission measurements were conducted at the worst test conditions.
The measurements of below 1 GHz were made at 10 m Semi Anechoic Chamber.

The frequency range of 9 kHz to 30 MHz, The EUT was placed on a non-conductive turn-table approximately 1.0 m above the ground plane. The turn-table shall rotate 360 degrees to determine the positon of maximum emission level. The EUT is set 10 m away from the receiving antenna, which fixed 2 m above the ground plane to find out the highest emission.
All frequencies were investigated in both horizontal and vertical antenna polarity.



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
Radiated emissions (30MHz ~ 1GHz)	4.3 dB	Confidence level of approximately 95 % (k = 2)
Radiated emissions (1GHz ~ 4.5GHz)	4.0 dB	Confidence level of approximately 95 % (k = 2)
Radiated emissions (4.5GHz ~ 18GHz)	4.2 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

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (μV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25×SQRT(power/500)	300 [1]300
	Any non-ISM frequency	Below 500 500 or more	15 15×SQRT(power/500)	300 [1]300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1,600 (2)
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 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.

6.5 Test Equipment

Description	Model Name	Manufacturer	Serial Number	Due to Calibration
Loop Ant.	HLA6121	TESEQ	45747	2023-06-15
EMI Receiver	ESR3	ROHDE & SCHWARZ	101805	2023-02-21
Cable	Sucoflex 106	Sucoflex	13419/6	2023-07-25

All test equipment used is calibrated on a regular basis.

6.6 Test data for Radiated Emission

-. Test Date : August. 4, 2022 ~ August. 5, 2022
-. Resolution Bandwidth : 200 Hz (9 kHz ~ 0.15 MHz) / 9kHz (0.15 MHz ~ 30 MHz)
-. Measurement Distance : 10 m
-. Detector mode : Average
-. Note : frequency range to be scanned up to 30 MHz, because the frequency band in which the EUT operates less than 1.705 MHz

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 All measurements were recorded using a spectrum analyzer employing an average detector for below 30 MHz.
Note.3 “V”= Vertical , “H” = Horizontal
Note.4 cooking element “1”= front left hob, ”2”= rear left hob, “3”=front right hob, “4”=rear right hob, “5”=center hob

-. Limit Calculations

The highest value measured at 10m distance was 78.1 dBµV/m (Cooking element #2, Vertical, 240V).
Extrapolation factor was calculated by having additional measurements at 3m and 5m as below refer to §18.305 Notes 2 and KDB Publication 629601.
The worst factor was 41.19 and applied to all the other measurements. Compensated limit is 83.15 dBuV/m.

Rear Left (element #2)

Distance (m)	Ant pol.	Frequency (MHz)	Reading (dBµV/m)
3	H	0.036	104.5
	V	0.036	105.1
5	H	0.036	89.2
	V	0.036	90.5
10	H	0.036	76.4
	V	0.036	78.1

3 to 5 (H)	68.97
3 to 5 (V)	65.8
3 to 10 (H)	53.74
3 to 10 (V)	51.64
5 to 10 (H)	42.52
5 to 10 (V)	41.19

1. Field Strength Limit [µV/m] = 1,500 [µV/m] = 63.5 [dBµV/m] at 30 m

2. Distance extrapolation factor = [FS(d2) - FS(d1)] / log10(d1/d2) where
   - d1 and d2 are the measurement distances (d2 > d1) in m
   - FS(d1) is the field strength at d1 in dBµV/m
   - FS(d2) is the field strength at d2 in dBµV/m

   [78.1 - 90.5] / log(5/10) = 41.19

3. Field Strength Limit with Distance Extrapolation Factor
   63.5 (dBµV/m) + (Distance Extrapolation Factor) * Log([d limit]/[d measure]) = 83.15 [dBµV/m] at 10 m

   63.5 [dBuV/m] + 41.19 * log (30 [m]/10 [m]) = 83.15 dBuV/m

6.6.1. Operating condition: Cooking element #1

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**

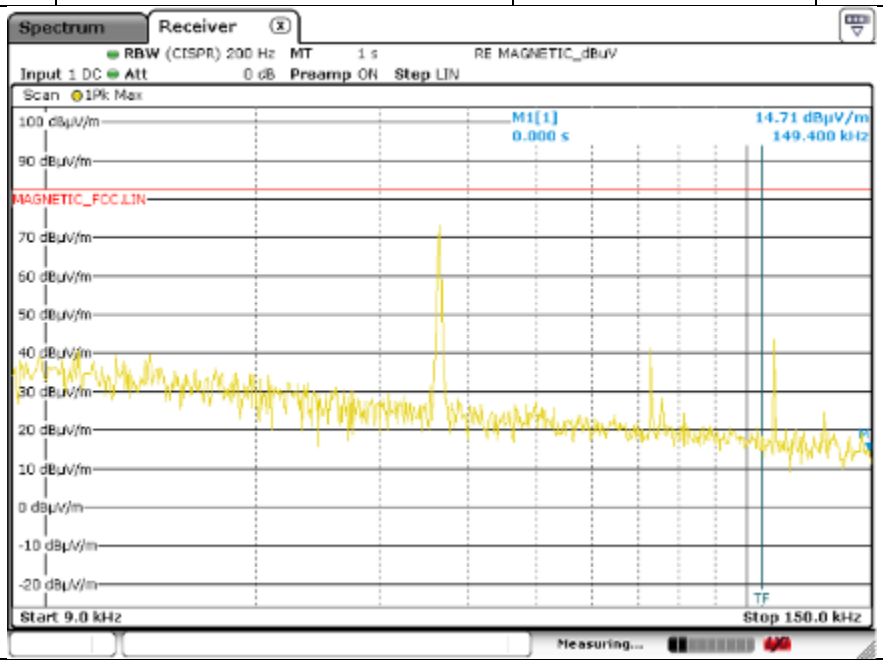
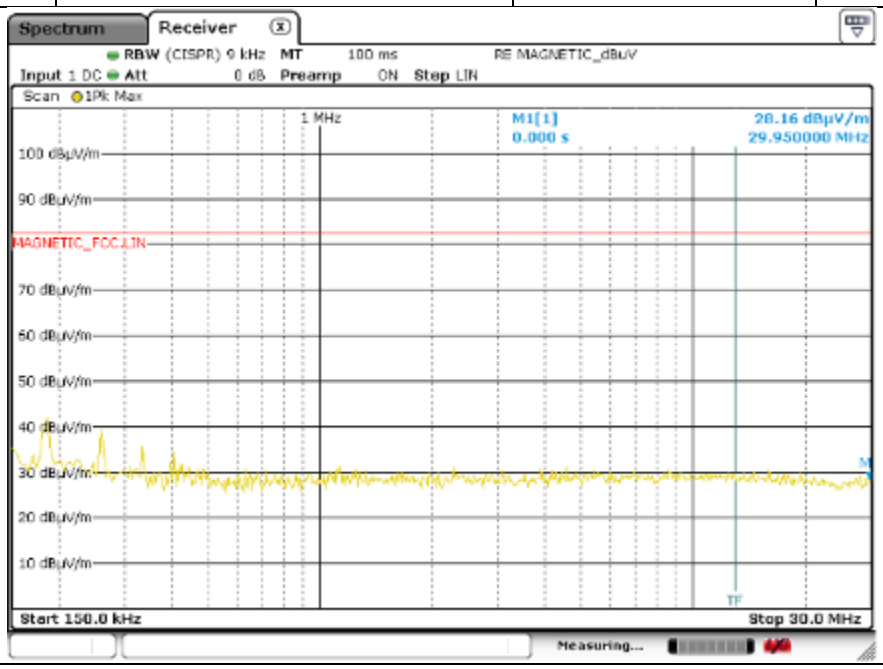
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03644	75.3	83.15	63.5	7.9
0.07276	39.1	83.15	63.5	44.1
0.10924	44.8	83.15	63.5	38.4
0.18600	36.1	83.15	63.5	47.1
0.25800	34.2	83.15	63.5	49.0

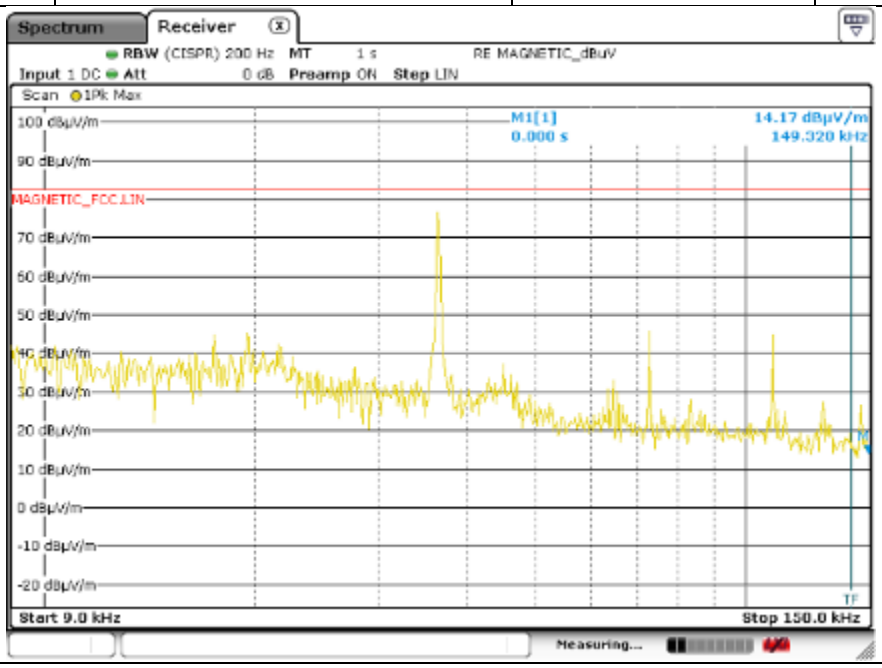
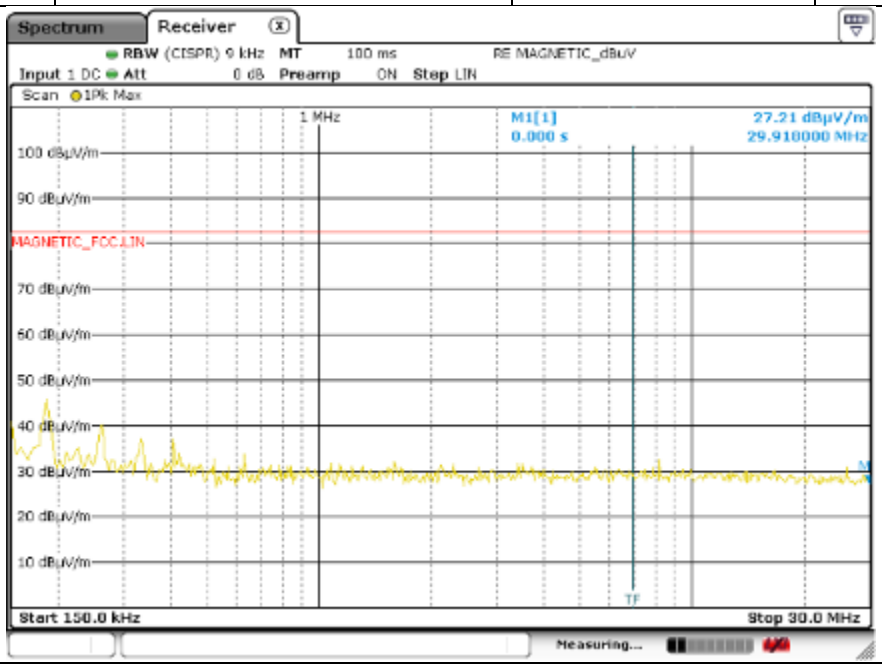
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03636	75.2	83.15	63.5	8.0
0.07284	43.2	83.15	63.5	40.0
0.10932	44.7	83.15	63.5	38.5
0.18600	40.6	83.15	63.5	42.6
0.26200	31.7	83.15	63.5	51.5

The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.2. Operating condition: Cooking element #2

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**

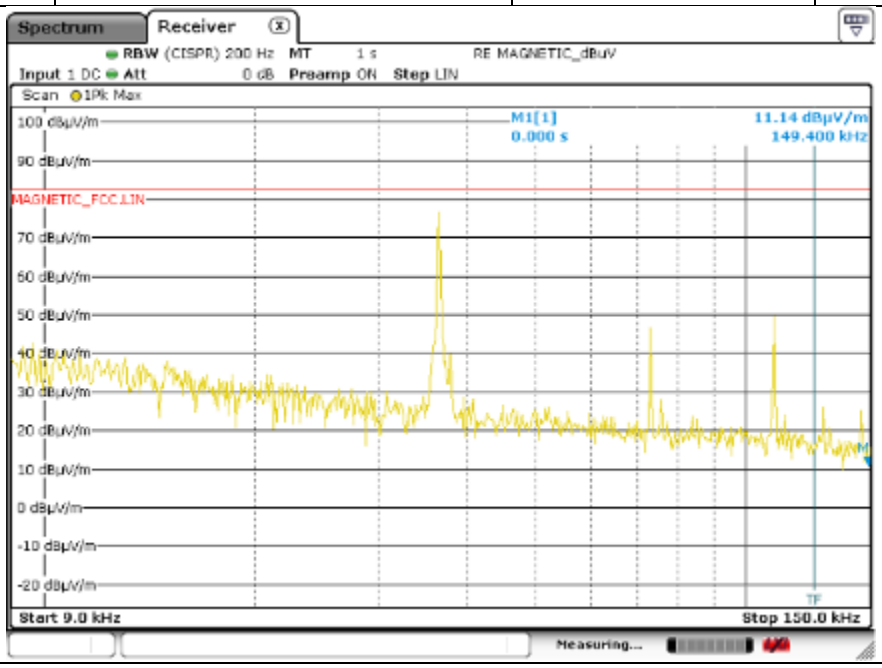
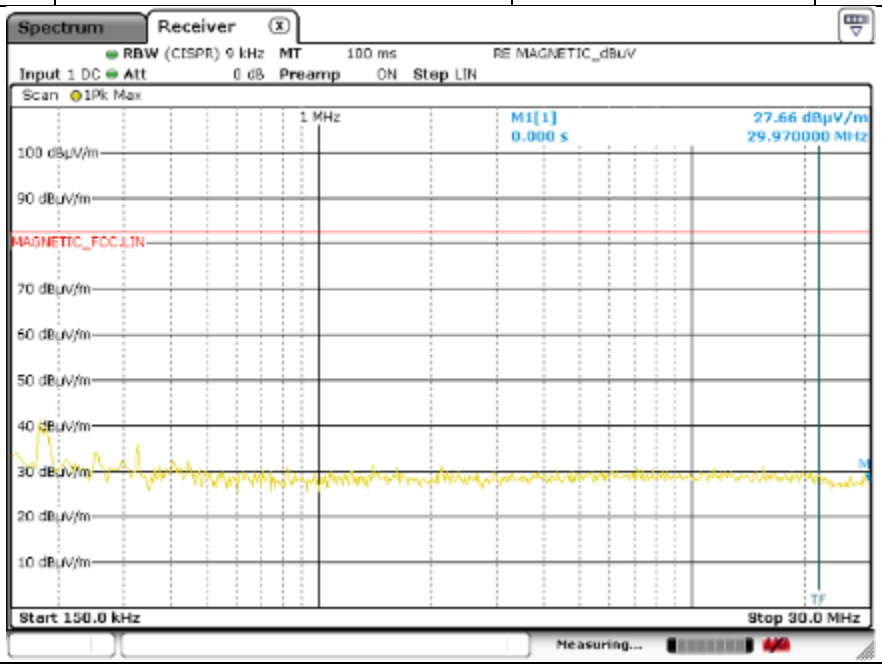
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03644	72.8	83.15	63.5	10.4
0.07308	40.3	83.15	63.5	42.9
0.10956	47.2	83.15	63.5	36.0
0.17800	38.8	83.15	63.5	44.4
0.32600	33.2	83.15	63.5	50.0

The measured value included and revised all related factor (LISN attenuation, Cable loss)

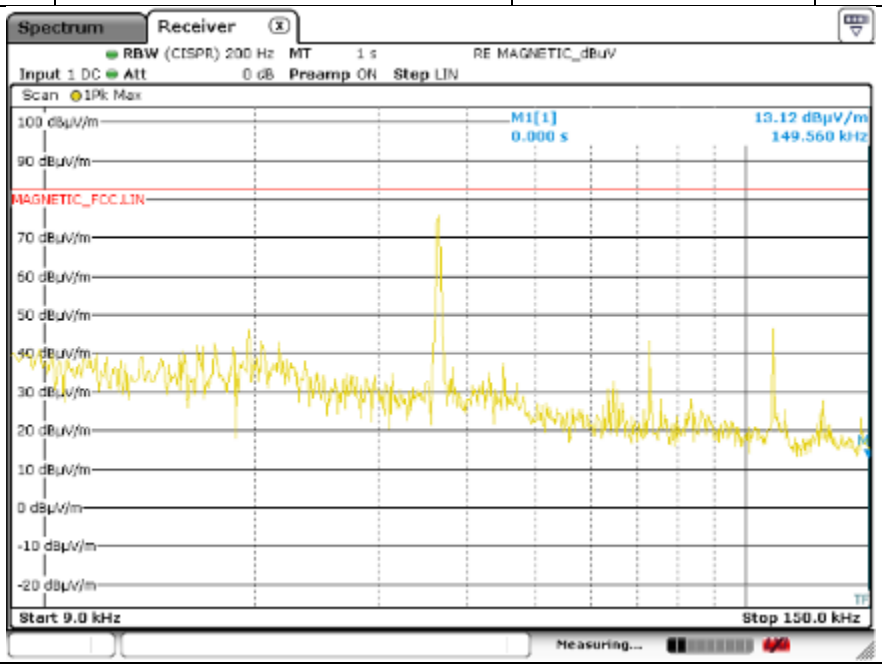
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03644	76.9	83.15	63.5	6.3
0.72920	43.2	83.15	63.5	40.0
0.10924	46.5	83.15	63.5	36.7
0.21000	43.0	83.15	63.5	40.2
0.19400	38.8	83.15	63.5	44.4

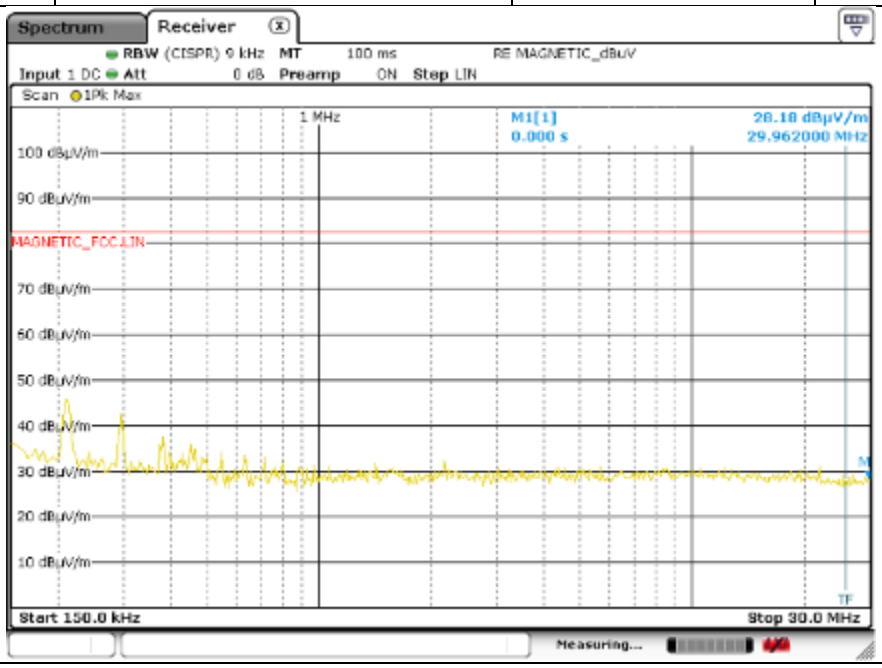
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				

Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**



0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**



6.6.3. Operating condition: Cooking element #3

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03636	71.8	83.15	63.5	11.4
0.07284	34.4	83.15	63.5	48.8
0.10940	32.0	83.15	63.5	51.2
0.18600	39.0	83.15	63.5	44.2
0.25800	38.4	83.15	63.5	44.8

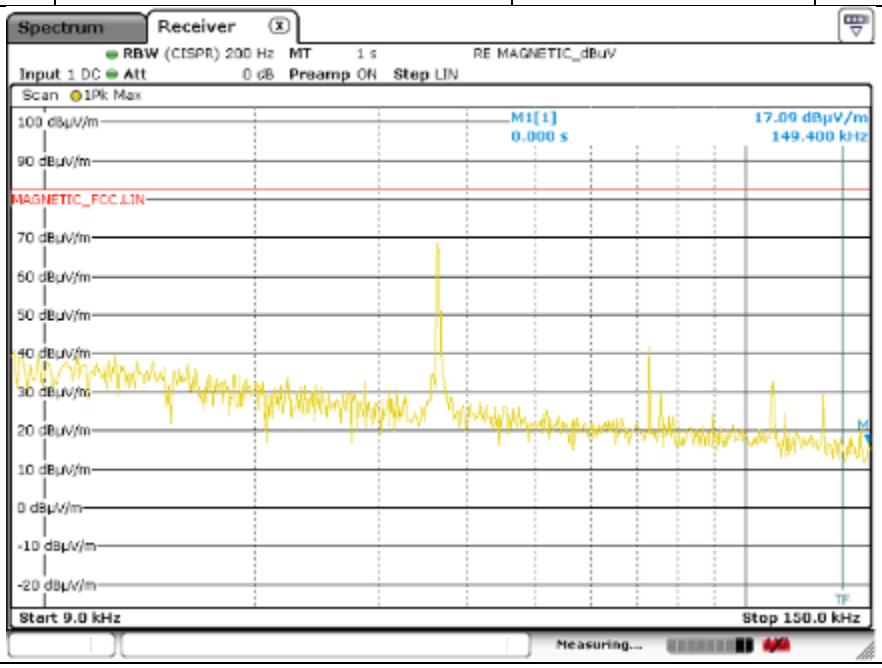
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**

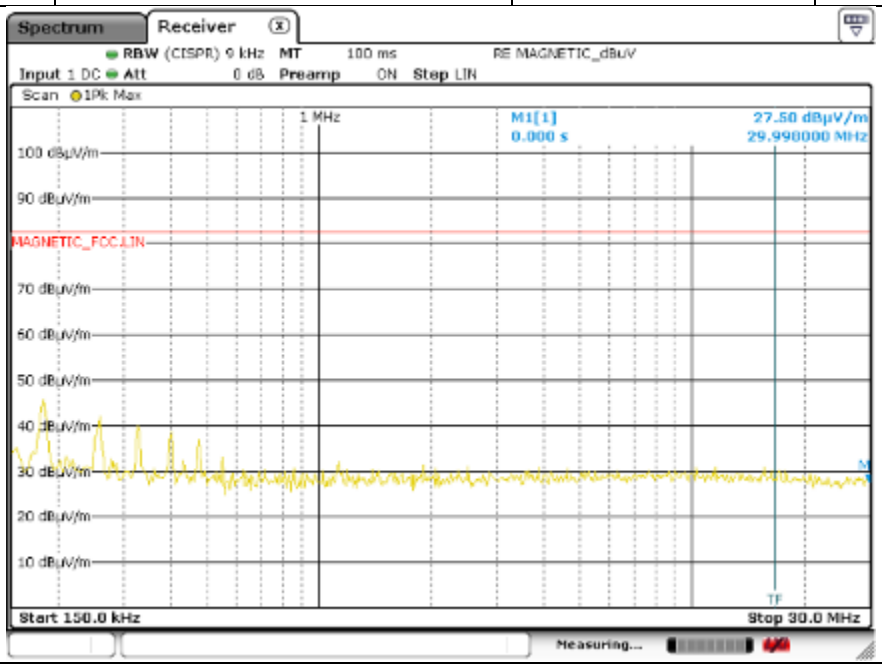
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03628	71.8	83.15	63.5	11.4
0.07276	39.5	83.15	63.5	43.7
0.10900	41.0	83.15	63.5	42.2
0.18600	37.6	83.15	63.5	45.6
0.26200	34.3	83.15	63.5	48.9

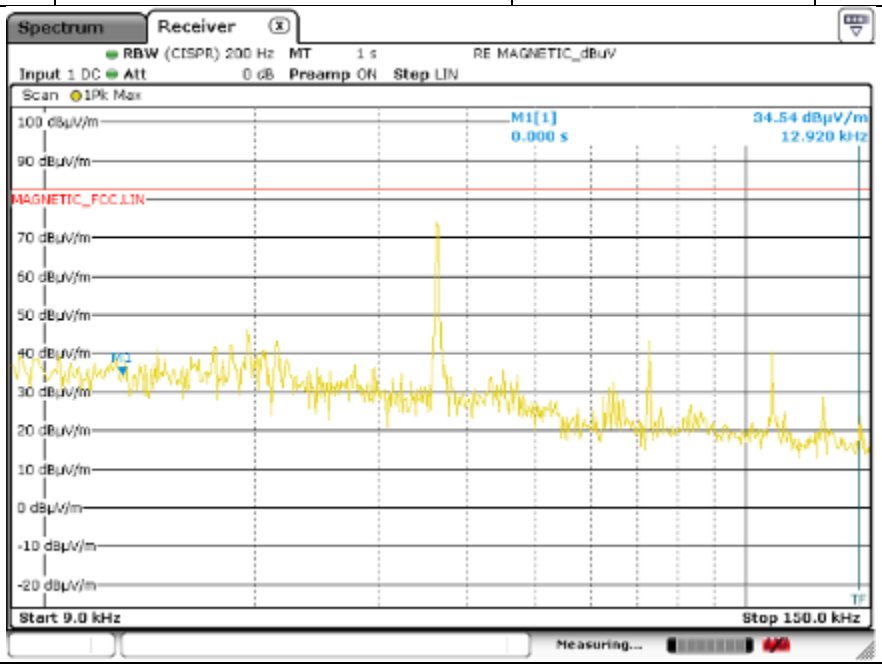
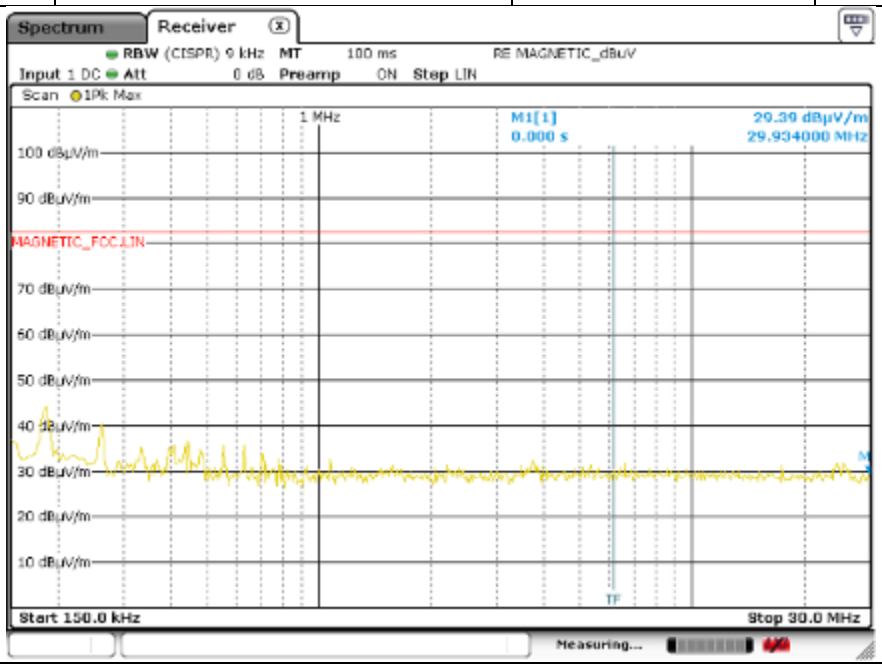
The measured value included and revised all related factor (LISN attenuation, Cable loss)

***Spectral Diagrams - Magnetic Field* , 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**



0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**



Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.4. Operating condition: Cooking element #4

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**

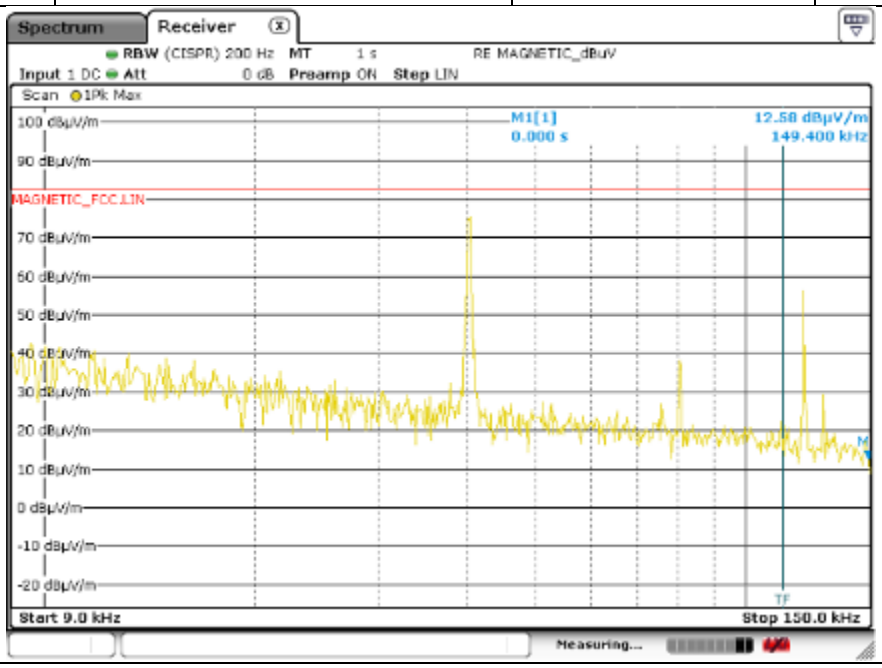
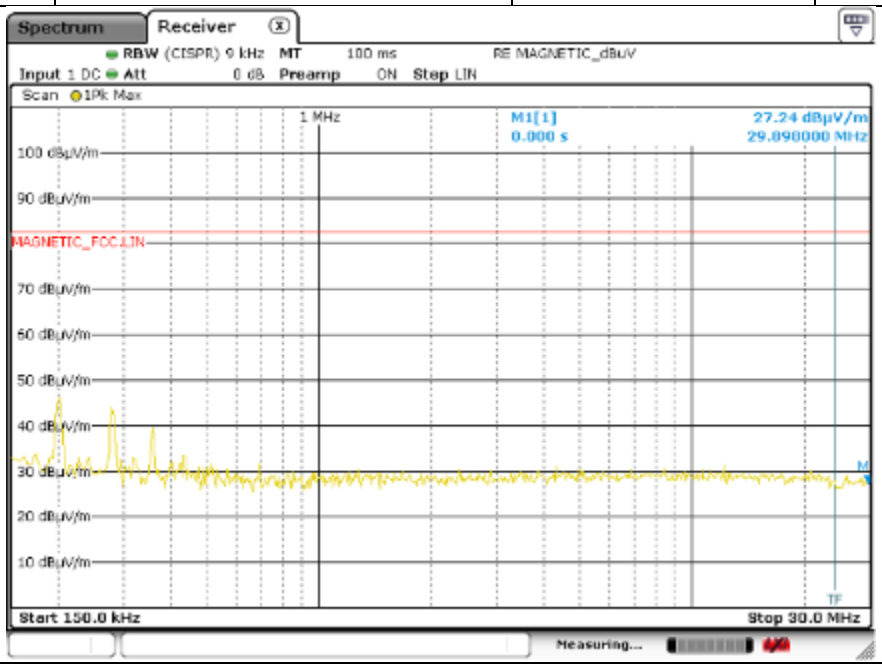
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04044	57.2	83.15	63.5	26.0
0.08044	24.7	83.15	63.5	58.5
0.11924	49.7	83.15	63.5	33.5
0.20200	46.5	83.15	63.5	36.7
0.27800	42.3	83.15	63.5	40.9

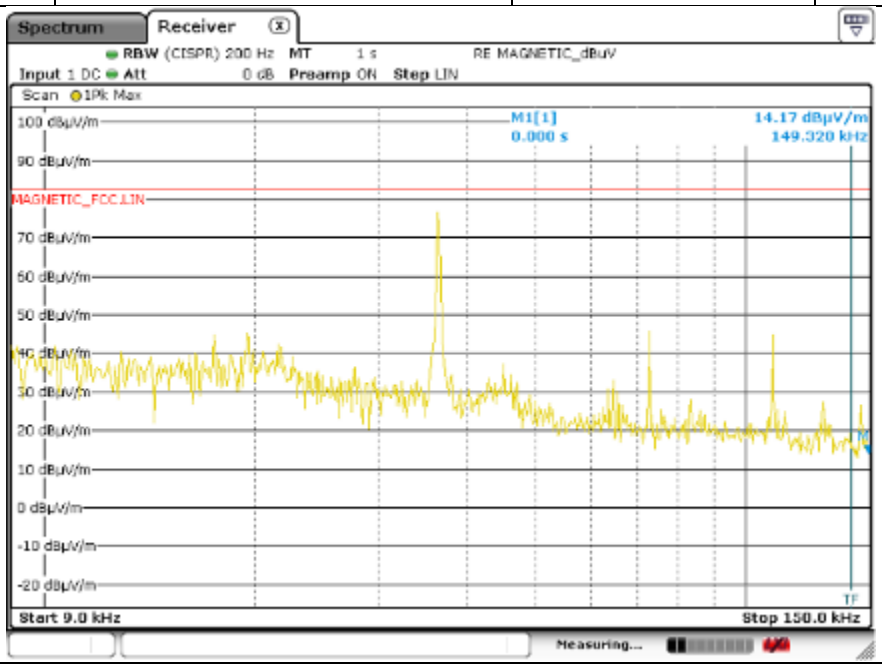
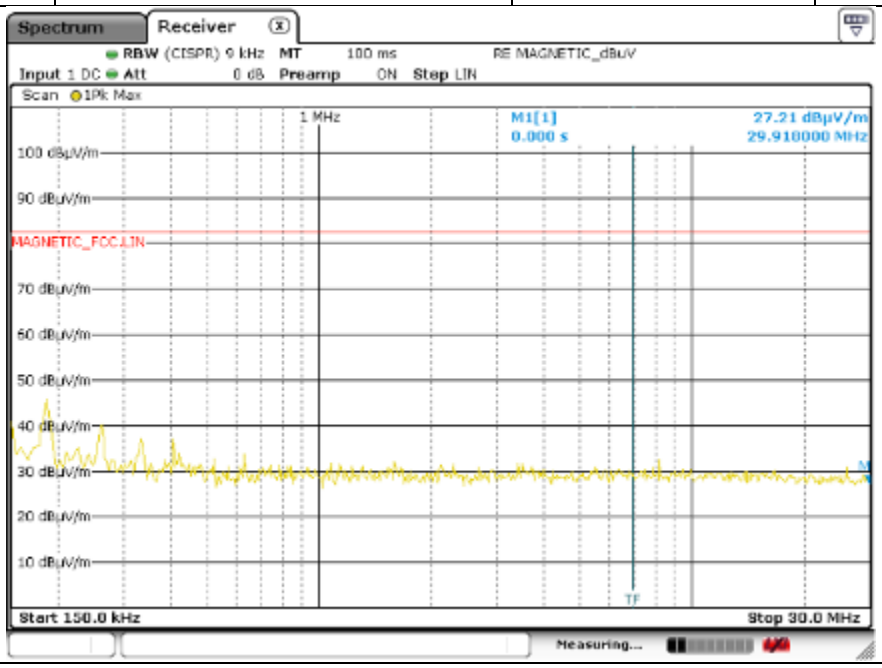
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04012	63.2	83.15	63.5	20.0
0.08004	44.9	83.15	63.5	38.3
0.12044	41.7	83.15	63.5	41.5
0.20600	38.4	83.15	63.5	44.8
0.29000	35.9	83.15	63.5	47.3

The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.5. Operating condition: Cooking element #5

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**

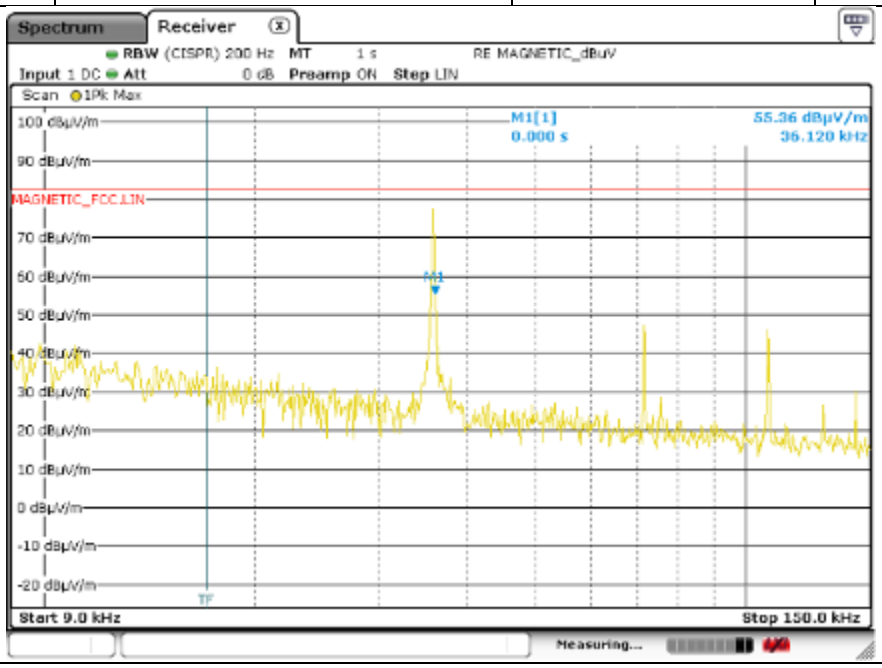
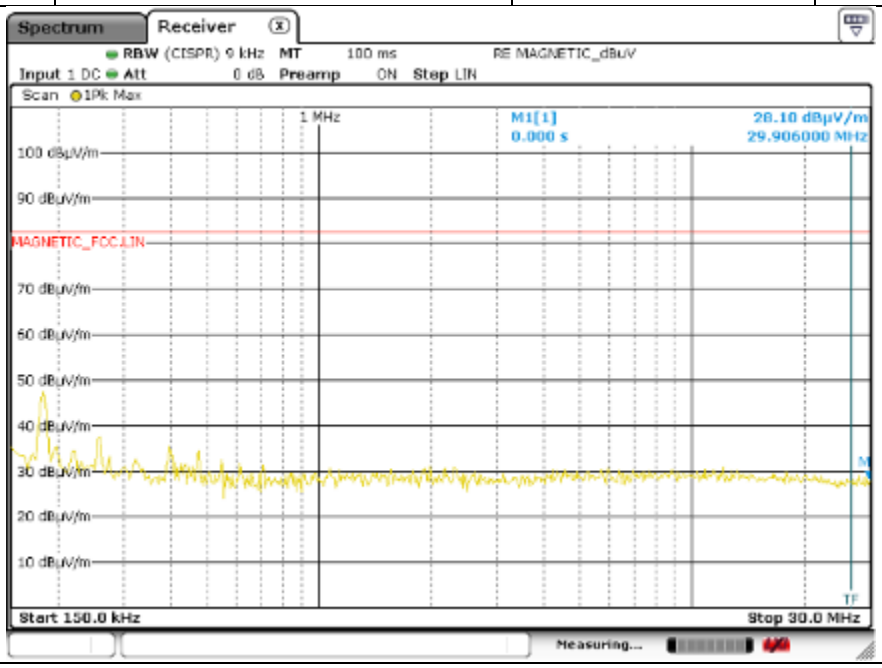
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03580	72.2	83.15	63.5	11.0
0.07156	44.7	83.15	63.5	38.5
0.10748	45.8	83.15	63.5	37.4
0.18200	44.6	83.15	63.5	38.6
0.25800	28.6	83.15	63.5	54.6

The measured value included and revised all related factor (LISN attenuation, Cable loss)

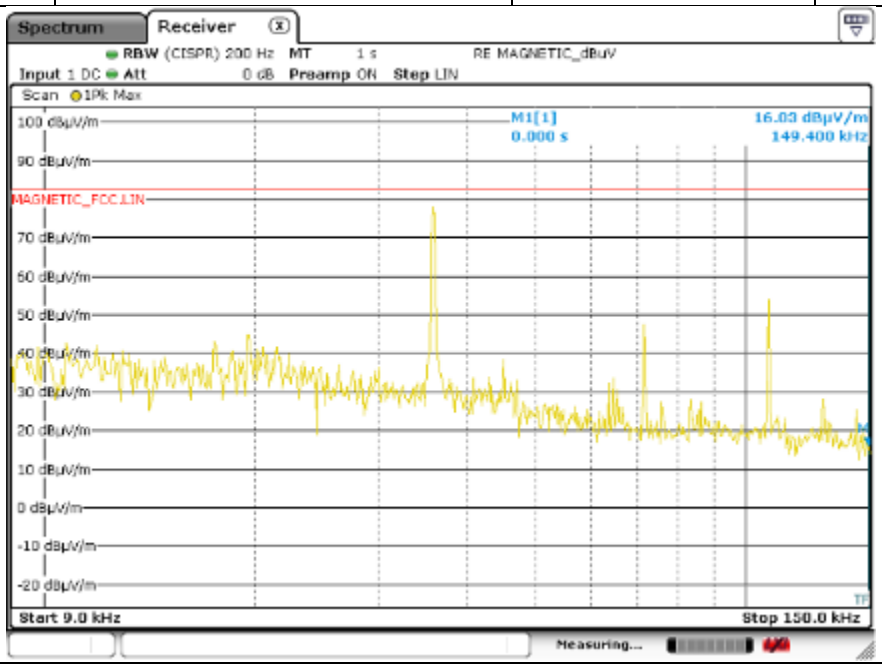
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03588	75.5	83.15	63.5	7.7
0.07156	43.4	83.15	63.5	39.8
0.10756	48.4	83.15	63.5	34.8
0.17800	46.4	83.15	63.5	36.8
0.25400	27.3	83.15	63.5	55.9

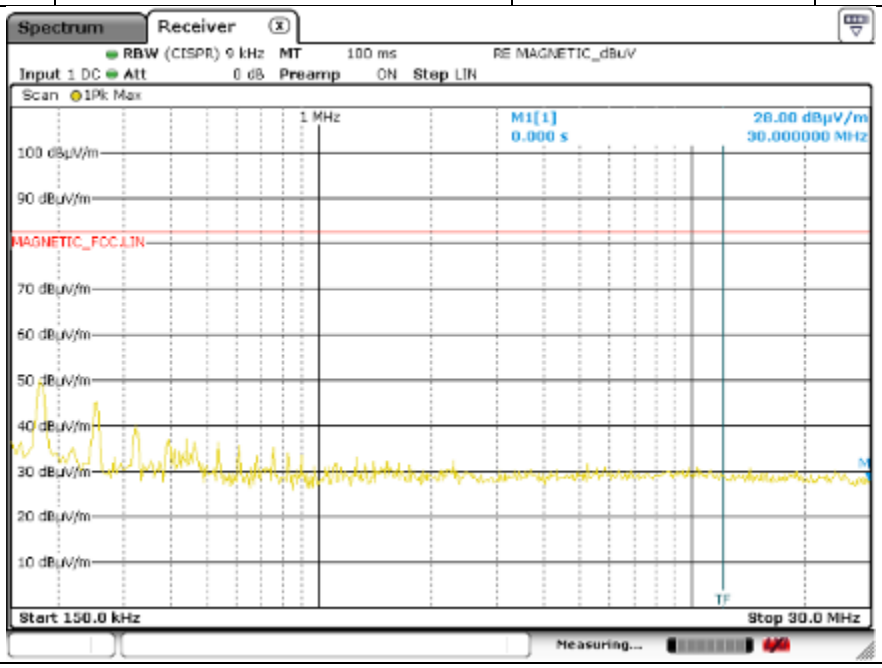
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Horizontal	**P**
				

***Spectral Diagrams - Magnetic Field* , 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**



0.15 MHz ~ 30 MHz				
Test voltage	208 V, 60 Hz	Polarization	Vertical	**P**



6.6.6. Operating condition: Cooking element #1

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**

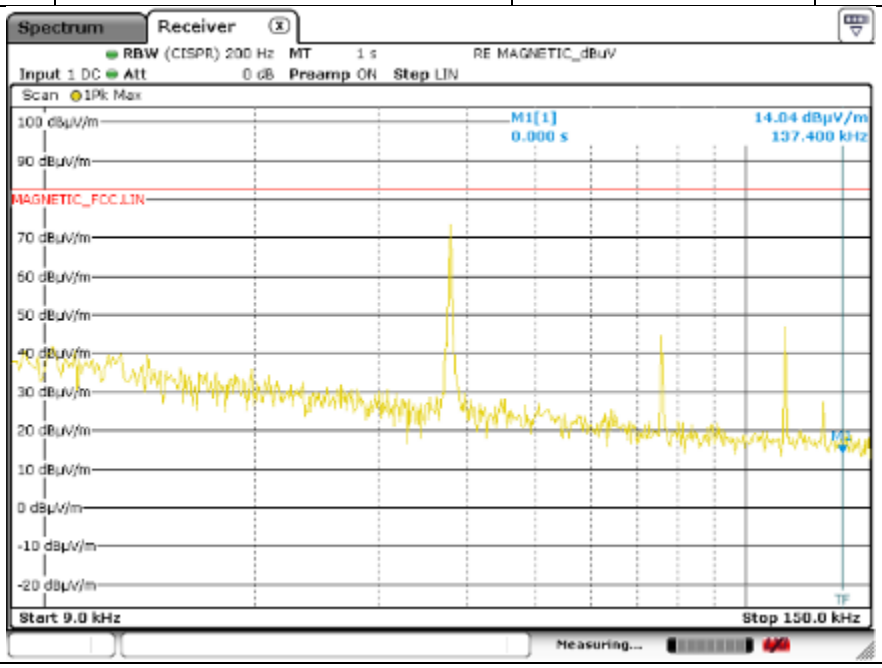
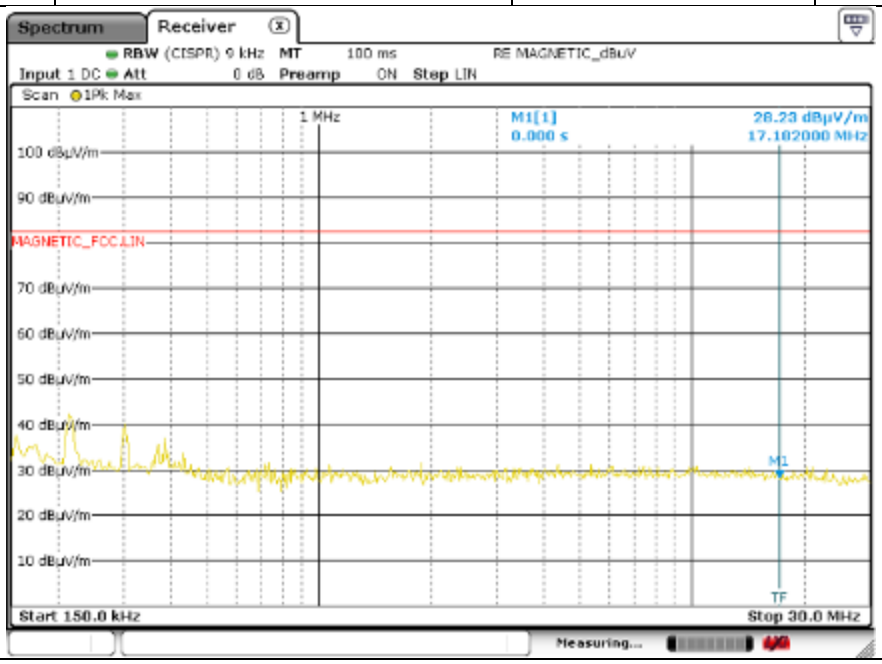
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03796	74.4	83.15	63.5	8.8
0.07580	41.9	83.15	63.5	41.3
0.11372	34.2	83.15	63.5	49.0
0.21400	41.3	83.15	63.5	41.9
0.30200	36.1	83.15	63.5	47.1

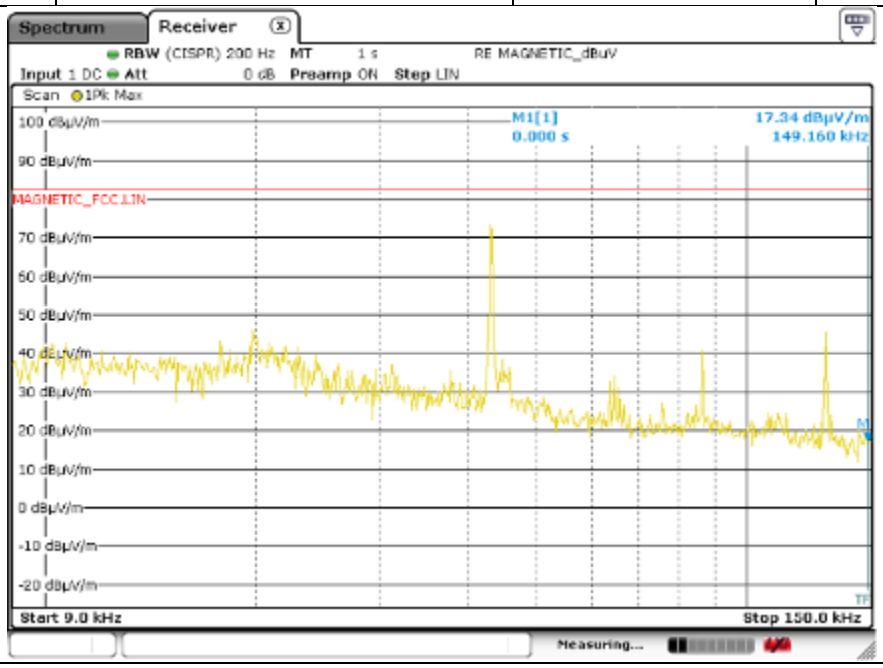
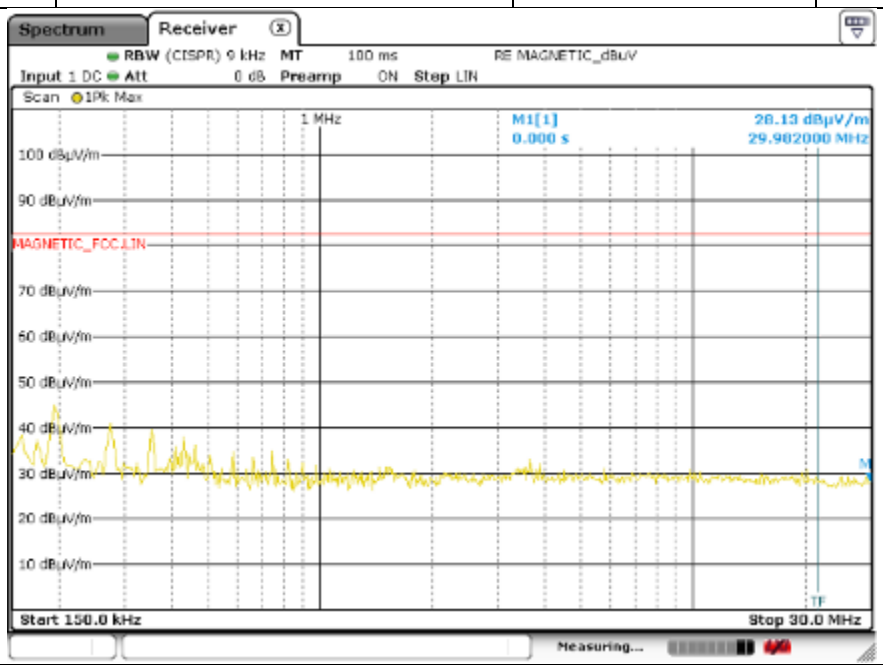
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04316	73.0	83.15	63.5	10.2
0.08636	38.5	83.15	63.5	44.7
0.12948	45.6	83.15	63.5	37.6
0.19400	40.5	83.15	63.5	42.7
0.27400	29.2	83.15	63.5	54.0

The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				

Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.7. Operating condition: Cooking element #2

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03788	76.4	83.15	63.5	6.8
0.07572	41.0	83.15	63.5	42.2
0.11372	44.2	83.15	63.5	39.0
0.19000	44.9	83.15	63.5	38.3
0.26200	37.1	83.15	63.5	46.1

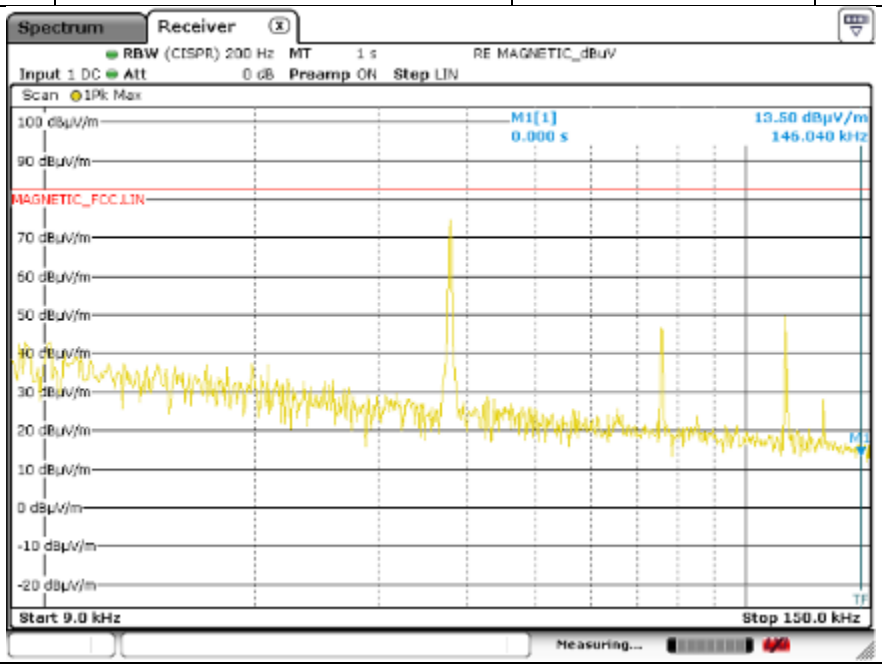
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**

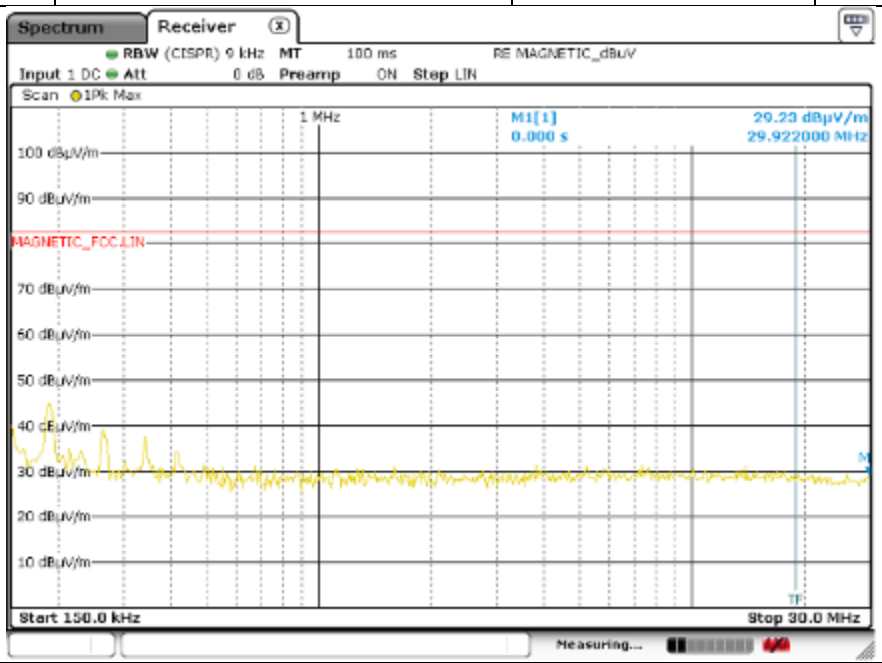
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03820	78.1	83.15	63.5	5.1
0.07588	40.5	83.15	63.5	42.7
0.11404	52.9	83.15	63.5	30.3
0.21800	47.4	83.15	63.5	35.8
0.30600	41.7	83.15	63.5	41.5

The measured value included and revised all related factor (LISN attenuation, Cable loss)

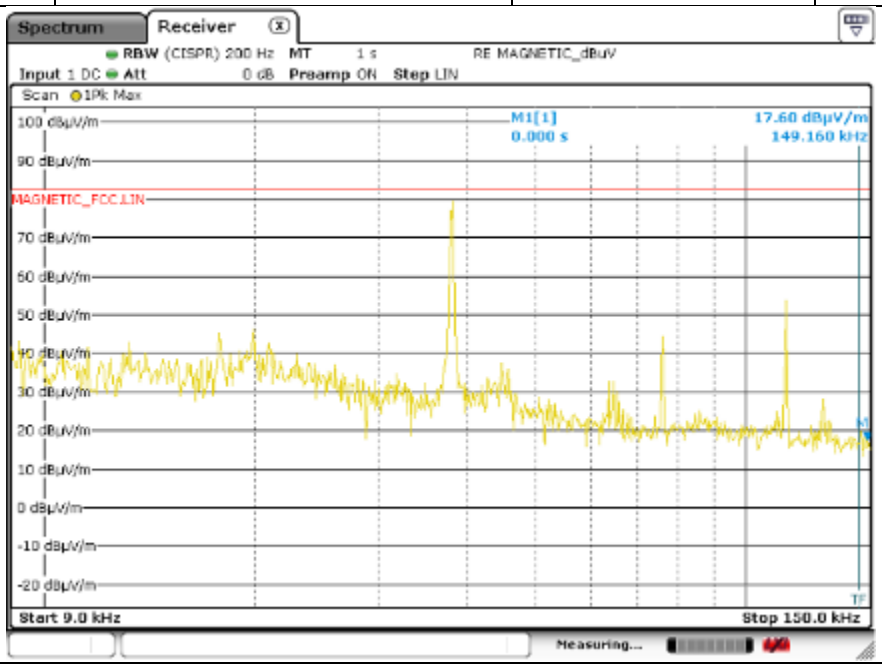
Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**



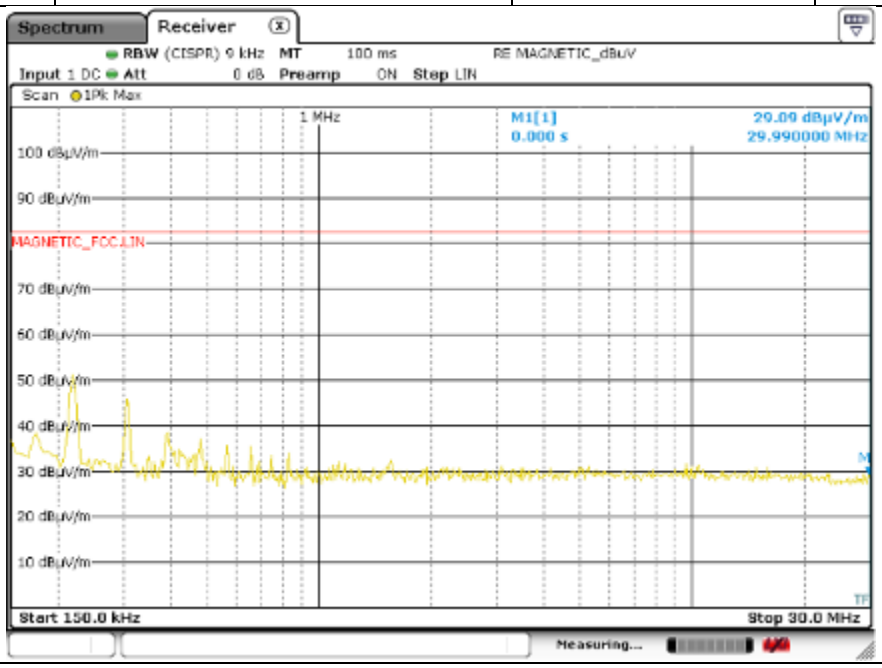
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**



Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**



0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**



6.6.8. Operating condition: Cooking element #3

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**

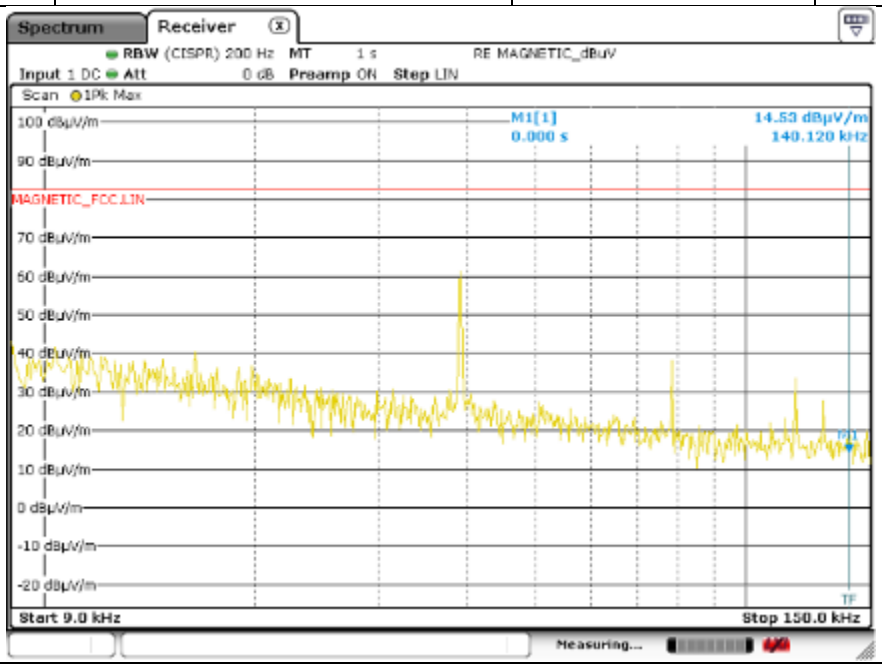
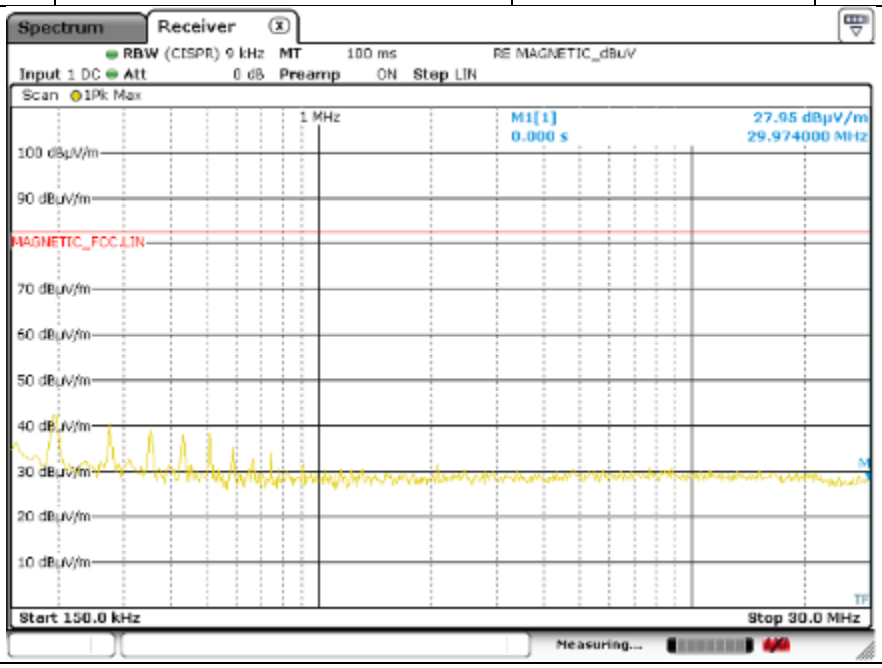
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03924	60.5	83.15	63.5	22.7
0.07844	34.8	83.15	63.5	48.4
0.11764	31.2	83.15	63.5	52.0
0.19400	44.5	83.15	63.5	38.7
0.27400	42.3	83.15	63.5	40.9

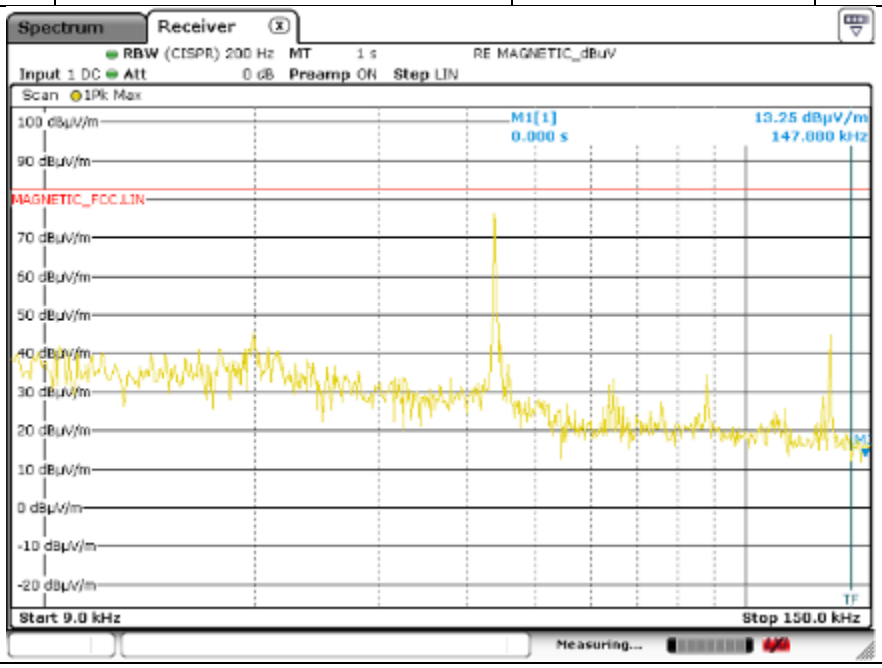
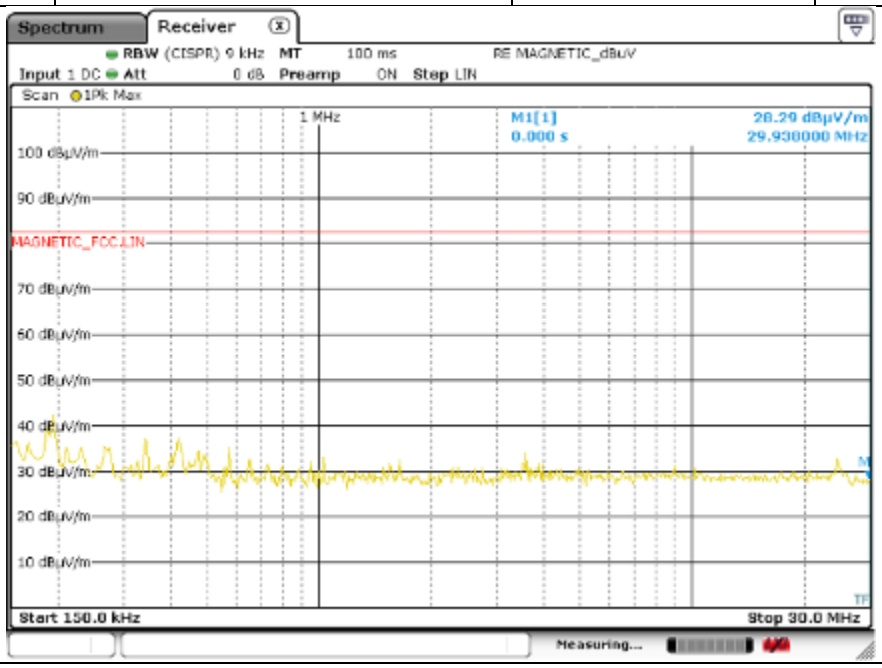
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04380	69.1	83.15	63.5	14.1
0.08796	34.2	83.15	63.5	49.0
0.13188	46.5	83.15	63.5	36.7
0.19400	41.1	83.15	63.5	42.1
0.41800	35.2	83.15	63.5	48.0

The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				

Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.9. Operating condition: Cooking element #4

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**

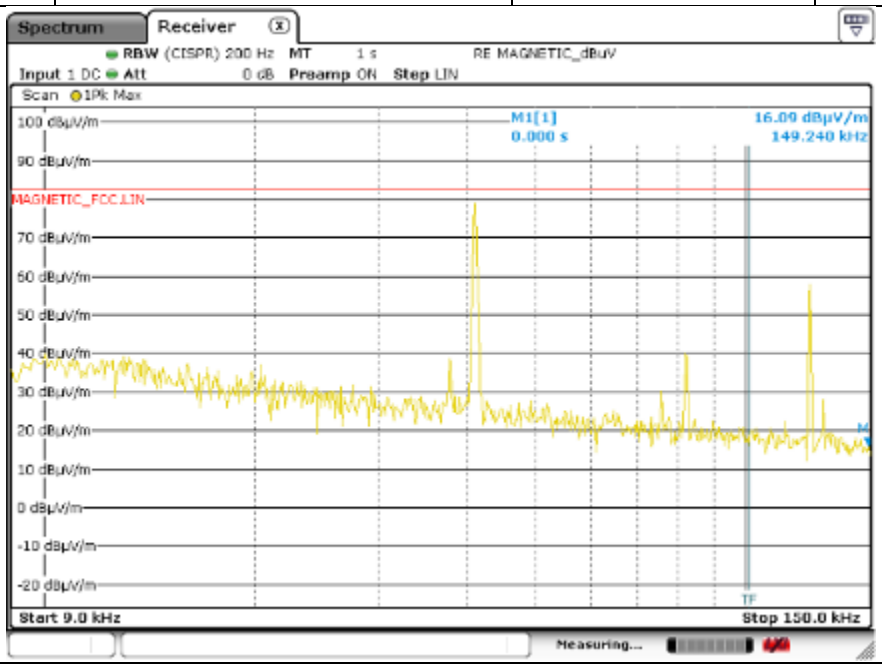
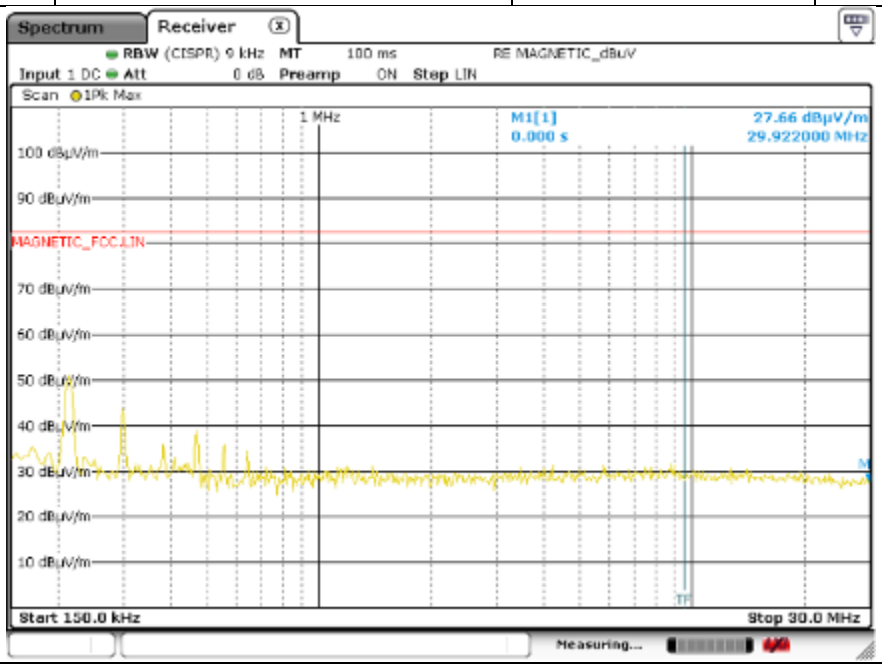
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04116	75.0	83.15	63.5	8.2
0.08196	34.1	83.15	63.5	49.1
0.12324	53.6	83.15	63.5	29.6
0.21400	49.1	83.15	63.5	34.1
0.29800	39.9	83.15	63.5	43.3

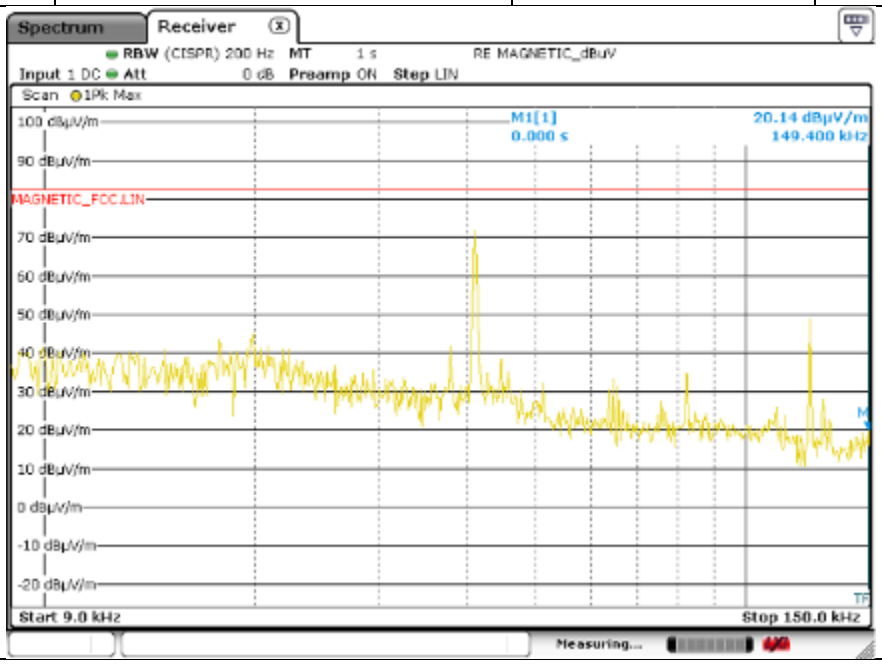
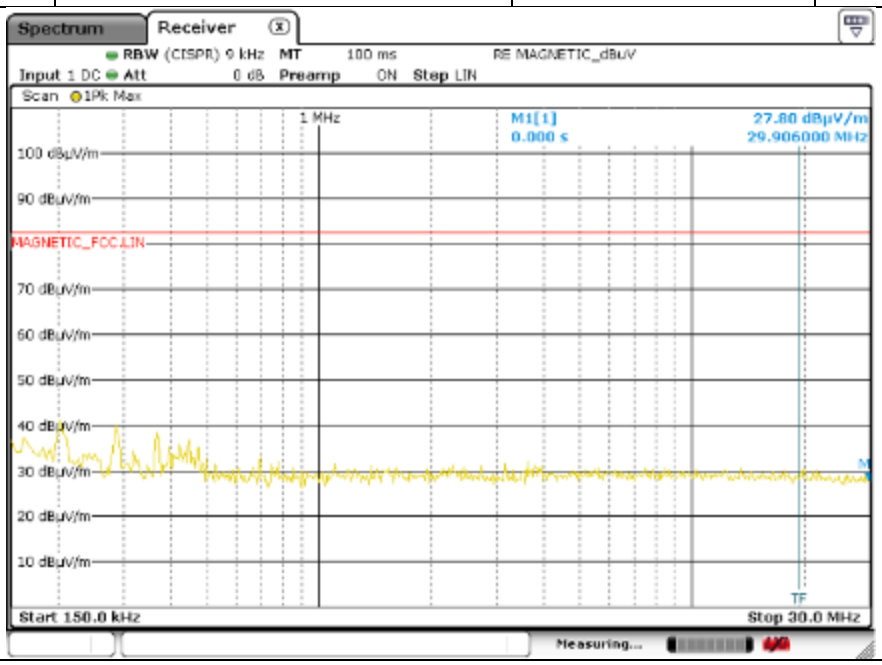
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.04108	68.4	83.15	63.5	14.8
0.08220	35.7	83.15	63.5	47.5
0.12324	42.8	83.15	63.5	40.4
0.20200	34.9	83.15	63.5	48.3
0.28600	33.1	83.15	63.5	50.1

The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**
				

***Spectral Diagrams - Magnetic Field* , 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				

6.6.10. Operating condition: Cooking element #5

Measurement table – *Magnetic Field* , 0.009 MHz to 30 MHz				**Verdict**
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**

Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03916	70.9	83.15	63.5	12.3
0.07836	45.0	83.15	63.5	38.2
0.11764	41.5	83.15	63.5	41.7
0.19800	46.1	83.15	63.5	37.1
0.27400	42.4	83.15	63.5	40.8

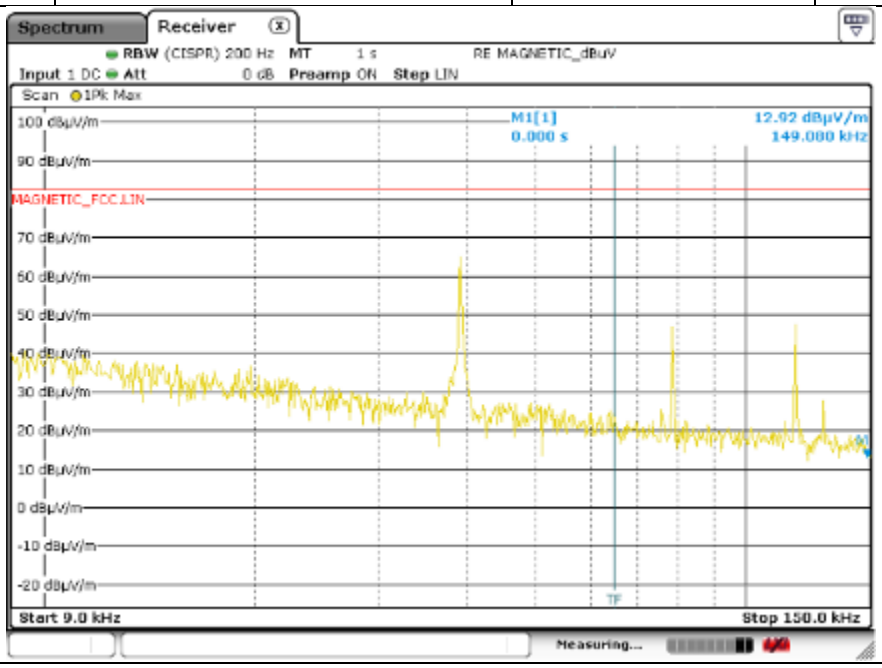
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**

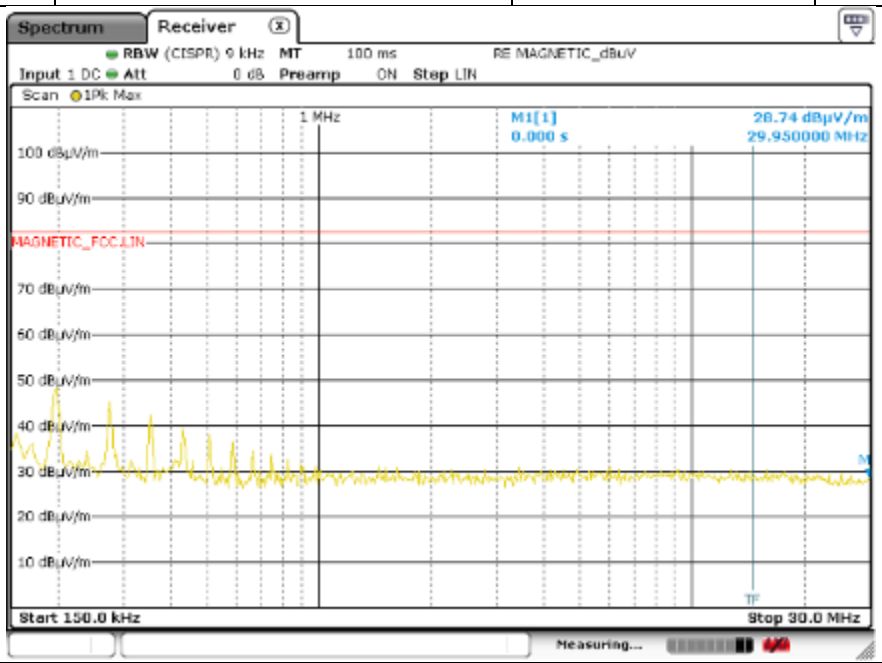
Frequency [MHz]	Average			
	Disturbance Level [dBuV/m] at 10 m	Permitted Limit [dBuV/m] 10 m	Permitted Limit [dBuV/m] 30 m	Margin
0.03876	71.9	83.15	63.5	11.3
0.07772	41.5	83.15	63.5	41.7
0.11644	51.6	83.15	63.5	31.6
0.21800	48.7	83.15	63.5	34.5
0.30200	43.5	83.15	63.5	39.7

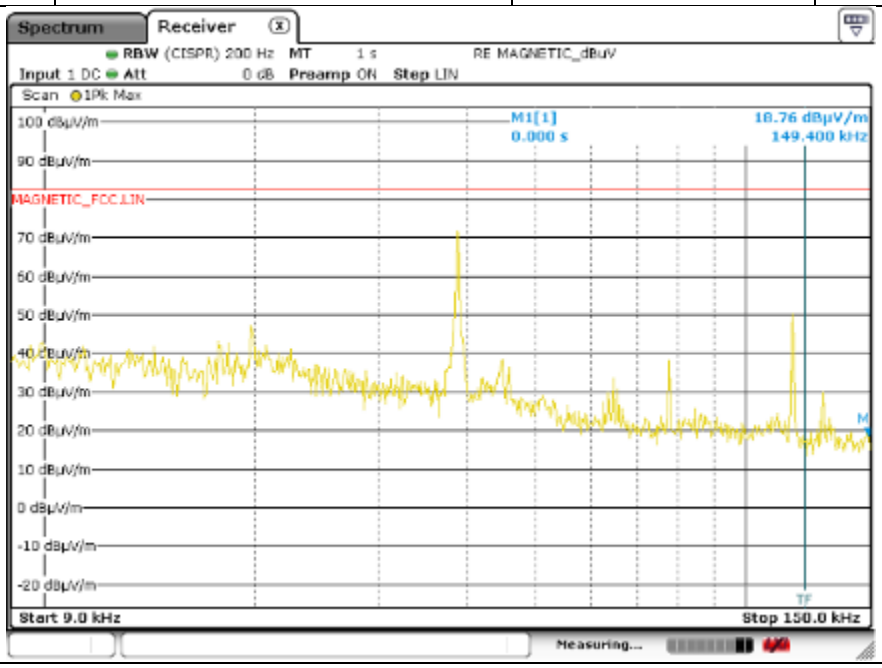
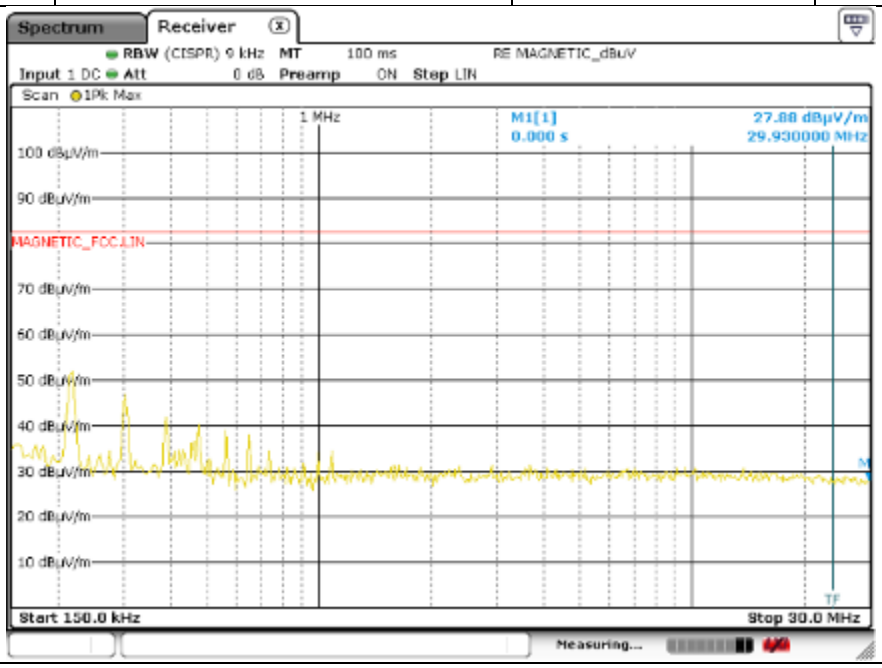
The measured value included and revised all related factor (LISN attenuation, Cable loss)

Spectral Diagrams - Magnetic Field , 0.009 MHz to 30 MHz				Verdict
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**



0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Horizontal	**P**



Spectral Diagrams - Magnetic Field **, 0.009 MHz to 30 MHz**				**Verdict**
0.009 MHz ~ 0.15 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				
0.15 MHz ~ 30 MHz				
Test voltage	240 V, 60 Hz	Polarization	Vertical	**P**
				

8. Recommendation & Conclusion

The data collected shows that the **LG Electronics USA. HOUSEHOLD COOKTOP (Model Name: CBIS3618B)** was complies with §18.305 and 18.307 of the FCC Rules.

- The end