

1. Client

1.1 Name : LG Electronics USA

1.2 Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States

1.3 Date of Receipt : August 13, 2018

2. Use of Report : Certification**3. Test Sample :**

3.1 Product Name : HOUSEHOLD COOKTOP

3.2 Basic Model Name : HN951VA

3.3 Alt. Model Name : SKSIT3601G

4. Date of Test : August 13, 2018 ~ August 14, 2018**5. Test Method Used :**

47 CFR FCC Part 18

6. Testing Environment :

6.1 Temp. (Minimum 22.0 °C, Maximum 25.4 °C)

6.2 Humidity (Minimum 40.0 % R.H., Maximum 49.0 % R.H.)

6.3 Atmospheric Pressure : (Minimum 99.8 kPa, Maximum 100.3 kPa)

7. Test Results : Refer to Page 4.**8. Measurement Uncertainty : Refer to attachment**The confidence level is about 95 %, $k = 2$

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Affirmation	Test by	Technical Manager
	Name : Rina Bae (Signature) 	Name : Julia Choi (Signature) 

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

August 16, 2018**Accredited by KOLAS Republic of KOREA****SGS Korea Co., Ltd. Gunpo Laboratory**

4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

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Contents

1. General Information	4
1.1 Client Information.....	4
1.2 Test Laboratory.....	4
1.3 General Information of E.U.T.....	4
1.4 Operating Modes and Conditions	4
1.5 Auxiliary Equipments	5
1.6 Cable List.....	5
1.7 System Configurations.....	5
1.8 Test System Layout	5
1.9 Modifications	5
1.10 Applicable Standards for Testing	5
1.11 Summary of Test Results	5
2. Emission Test.....	6
2.1 Test Results.....	6
2.2 Test Method and Limits	6
2.2.1 Test Method.....	6
2.2.2 Test Limits	6
2.3 Conducted Emission	7
2.3.1 Test Equipments.....	7
2.3.2 Test Site.....	7
2.3.3 Environment Conditions.....	7
2.3.4 Test Results.....	8
2.4 Radiated Emission	18
2.4.1 Test Equipments.....	18
2.4.2 Test Site.....	18
2.4.3 Environment Conditions.....	18
2.4.4 Test Results.....	19

Revision History

Revision	Report number	Description
0	F690501/RF-EMC003721(H)	Initial
1		- Test Laboratory address has been modified. - Used Cables have been listed. - Radiated Emission limit below 1 GHz of the each test graph has been modified.
2	F690501/RF-EMC003798(H)	All test have been re-rested due to the noise filter change.

1. General Information**1.1 Client Information**

Applicant : LG Electronics USA
Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States

Manufacturer : LG Electronics Inc.
Address : 170, Seongsanpaechong-Ro, Seongsan-Gu, Changwon-Si,
Gyeongsangnam-Do, 51533, Korea

1.2 Test Laboratory

Name and Address : SGS Korea Co., Ltd.
4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea, 15807
FCC Registration No. : KR0150
Phone : + 82 31 548 0710
Fax : + 82 31 548 0719
e-mail : Julia.Choi@sgs.com

1.3 General Information of E.U.T.

Classification	Specification	
Product Name	HOUSEHOLD COOKTOP	
Basic Model Name	HN951VA	
Alt. Model Name	SKSIT3601G	
Model Description	The alt. model – SKSIT3601G – is identical to the basic model – HN951VA – except for model name according to buyer code.	
Internal Clock Freq.	40 kHz	
Test Power	240 V~, 60 Hz	
Electrical Specifications	Connection Voltage	240 V~, 208 V~, 60 Hz, 46.3 A, 45.7 A
	Maximum Connected Power Load	11 100 W, 9 500 W
Dimensions (W*H*D)	930 mm * 108 mm * 547 mm	
Function	A electric stove using an induction coil	

1.4 Operating Modes and Conditions

Operating mode	Operating condition
1) L-R Cooking Zone Operating	A state that a pot filled with water is being heated in the Left – Rear Cooking Zone
2) L-F Cooking Zone Operating	A state that a pot filled with water is being heated in the Left – Front Cooking Zone
3) R-F Cooking Zone Operating	A state that a pot filled with water is being heated in the Right – Front Cooking Zone
4) R-R Cooking Zone Operating	A state that a pot filled with water is being heated in the Right – Rear Cooking Zone
5) Dual Cooking Zone Operating	A state that a pot filled with water is being heated in the Dual Cooking Zone

1.5 Auxiliary Equipments

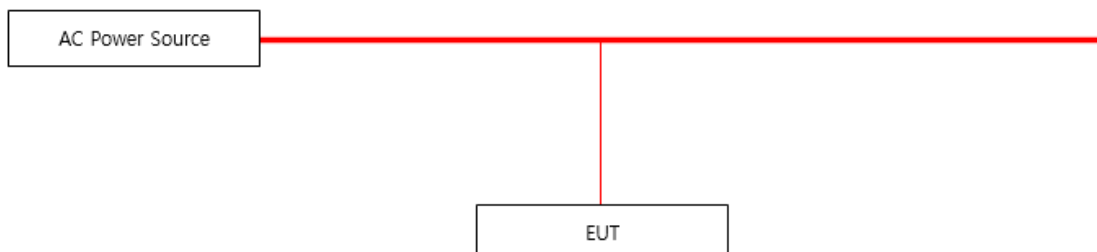
Description	Model	Serial No.	Manufacturer
-	-	-	-

1.6 Cable List

Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length	Shield	
EUT	AC IN	AC Power Source	-	1.5	Unshield	No

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Buzzer PCB	EAX61768202 Ver.1	-	-
EMI Filter PCB	EAX68172301-D	-	LG Electronics Inc.
Interface PCB	EAX68029301-F	-	LG Electronics Inc.
Inverter 2IH PCB	EAX68084801-E	-	LG Electronics Inc.
Inverter 4IH PCB	EAX68045801-G	-	LG Electronics Inc.
Power Key PCB	CLAS IKEY TOUCH LED	-	-
SMPS PCB	EAX68028301-E	-	LG Electronics Inc.
TFT LCD PCB	EAX68182501-B	-	LG Electronics Inc.
Wifi Module	LCW-009	-	-

1.8 Test System Layout**1.9 Modifications**

- There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
47 CFR FCC Part 18	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 18 Subpart C Section 18.307	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305	Complied

Note : Test methods of all test items are performed according to the basic standards in this table.

EMISSION

2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 18 Subpart C Section 18.307	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	9 kHz ~ 30 MHz	200 Hz & 9 kHz	-
Radiated Emission	9 kHz ~ 30 MHz	200 Hz & 9 kHz	10 m

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range	Limits(dB μ V)	
	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 to 56*	56 to 46*
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

*Decreases with the logarithm of the frequency.

- Radiated Emission Limits below 1 GHz

Frequency Range	Limits(dB μ V/m)
	Average
9 MHz ~ 30 MHz	82.6

* Since the operating frequency is 40 kHz, it was tested up to 30 MHz.

2.3 Conducted Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (9 kHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the software of EMC32 (Version V8.53 from R&S). The final test data was measured using a Quasi-Peak detector and an Average detector.

2.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESR7	R&S	101179	2018.11.08
2-LINE V-NETWORK	ENV216	R&S	101180	2019.04.02
PULSE LIMITER	ESH3-Z2	R&S	100283	2018.11.25
Shield Room	-	SY CORPORATION	-	-

2.3.2 Test Site

Shield Room in Giheung 1 Laboratory

2.3.3 Environment Conditions

Temperature : (minimum 25.1, maximum 25.4) °C

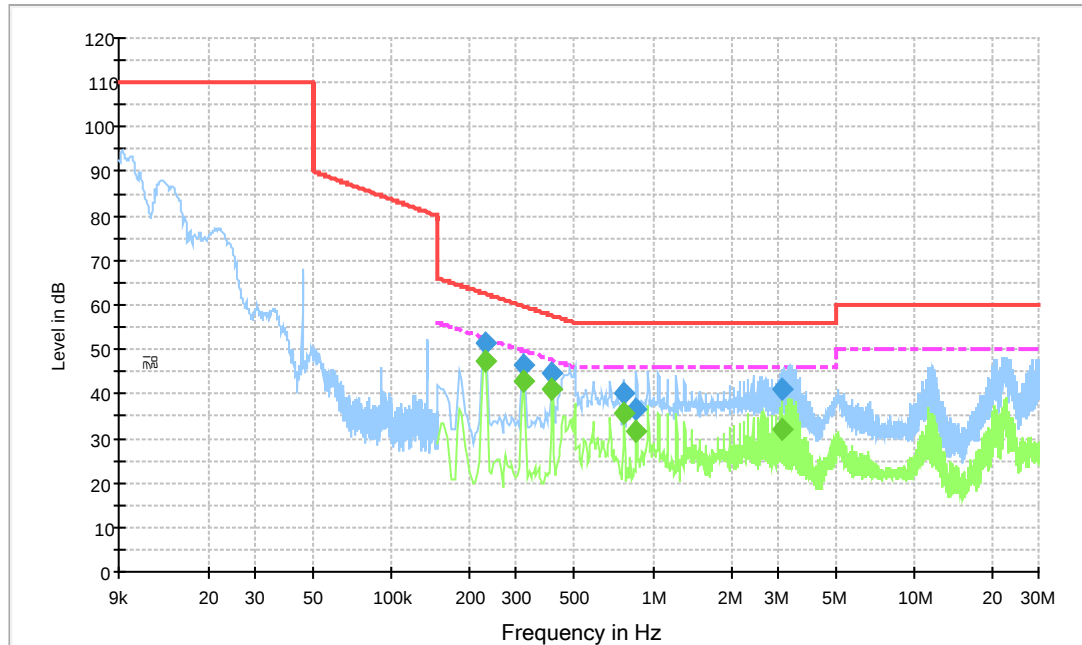
Humidity : (minimum 40.0, maximum 41.0) %R.H.

Atmospheric Pressure : (minimum 100.3, maximum 100.3) kPa

Test Date : August 14, 2018

2.3.4 Test Results

- L-R Cooking Zone Operating mode

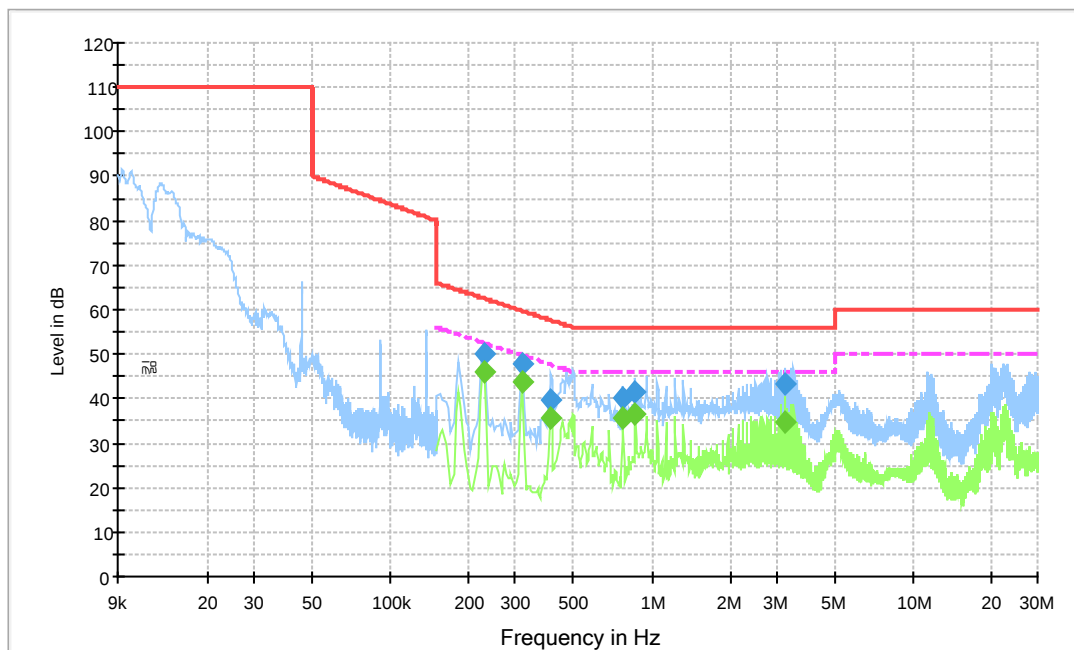


Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.230 000	51.3	15 000.0	9.000	Off	L1	19.6	11.1	62.4
0.322 000	46.6	15 000.0	9.000	Off	L1	19.6	13.1	59.7
0.410 000	44.6	15 000.0	9.000	Off	L1	19.6	13.0	57.6
0.774 000	40.1	15 000.0	9.000	Off	L1	19.6	15.9	56.0
0.862 000	36.4	15 000.0	9.000	Off	L1	19.6	19.6	56.0
3.142 000	41.2	15 000.0	9.000	Off	L1	19.7	14.8	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.230 000	47.4	15 000.0	9.000	Off	L1	19.6	5.0	52.4
0.322 000	42.9	15 000.0	9.000	Off	L1	19.6	6.8	49.7
0.410 000	41.0	15 000.0	9.000	Off	L1	19.6	6.6	47.6
0.774 000	35.4	15 000.0	9.000	Off	L1	19.6	10.6	46.0
0.862 000	31.4	15 000.0	9.000	Off	L1	19.6	14.6	46.0
3.142 000	31.9	15 000.0	9.000	Off	L1	19.7	14.1	46.0



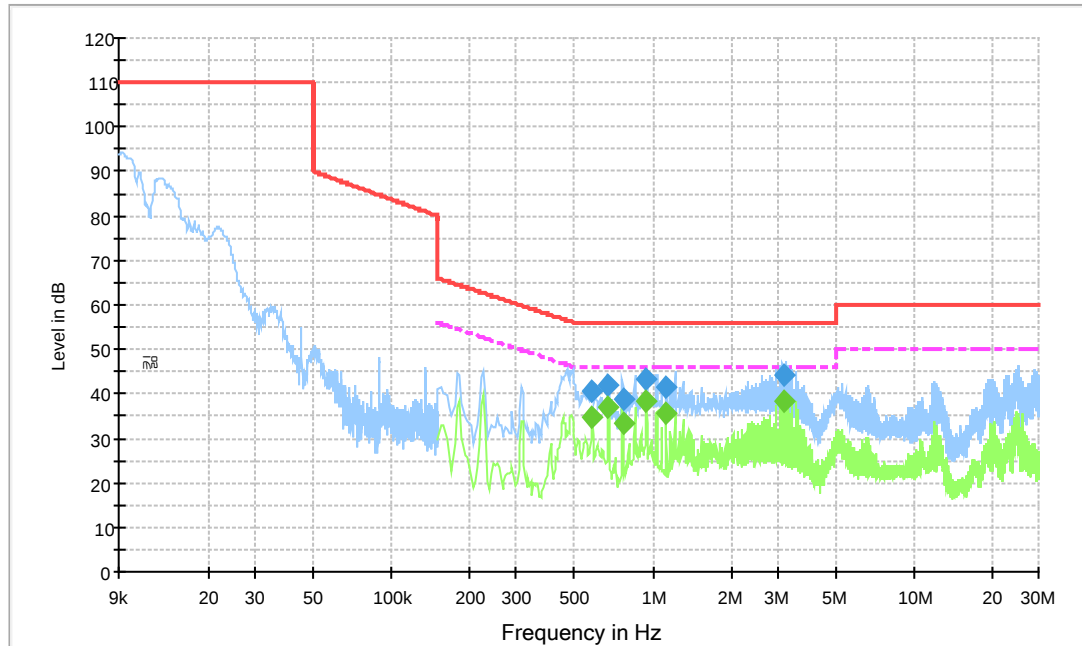
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.230 000	49.9	15 000.0	9.000	Off	N	19.6	12.5	62.4
0.318 000	47.7	15 000.0	9.000	Off	N	19.6	12.1	59.8
0.406 000	39.5	15 000.0	9.000	Off	N	19.6	18.2	57.7
0.774 000	40.2	15 000.0	9.000	Off	N	19.6	15.8	56.0
0.866 000	41.7	15 000.0	9.000	Off	N	19.6	14.3	56.0
3.242 000	43.2	15 000.0	9.000	Off	N	19.7	12.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.230 000	45.9	15 000.0	9.000	Off	N	19.6	6.5	52.4
0.318 000	44.0	15 000.0	9.000	Off	N	19.6	5.8	49.8
0.406 000	35.6	15 000.0	9.000	Off	N	19.6	12.1	47.7
0.774 000	35.6	15 000.0	9.000	Off	N	19.6	10.4	46.0
0.866 000	36.8	15 000.0	9.000	Off	N	19.6	9.2	46.0
3.242 000	34.7	15 000.0	9.000	Off	N	19.7	11.3	46.0

- L-F Cooking Zone Operating mode

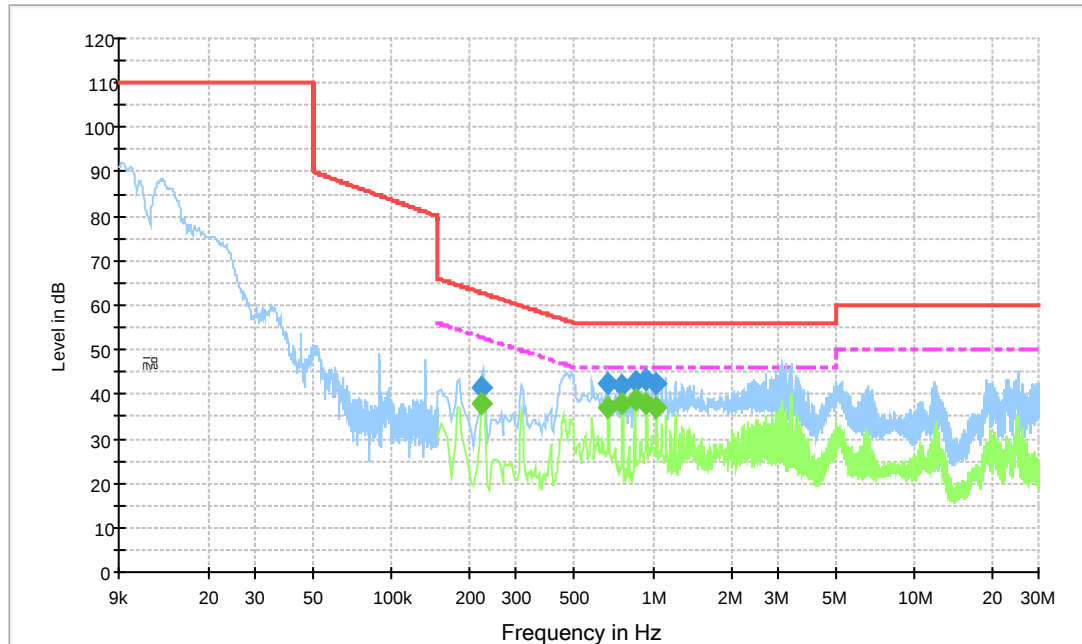


Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.586 000	40.4	15 000.0	9.000	Off	L1	19.6	15.6	56.0
0.674 000	41.8	15 000.0	9.000	Off	L1	19.6	14.2	56.0
0.770 000	38.8	15 000.0	9.000	Off	L1	19.6	17.2	56.0
0.946 000	43.1	15 000.0	9.000	Off	L1	19.6	12.9	56.0
1.126 000	41.5	15 000.0	9.000	Off	L1	19.6	14.5	56.0
3.154 000	44.1	15 000.0	9.000	Off	L1	19.7	11.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.586 000	34.9	15 000.0	9.000	Off	L1	19.6	11.1	46.0
0.674 000	36.8	15 000.0	9.000	Off	L1	19.6	9.2	46.0
0.770 000	33.5	15 000.0	9.000	Off	L1	19.6	12.5	46.0
0.946 000	38.1	15 000.0	9.000	Off	L1	19.6	7.9	46.0
1.126 000	35.8	15 000.0	9.000	Off	L1	19.6	10.2	46.0
3.154 000	38.3	15 000.0	9.000	Off	L1	19.7	7.7	46.0



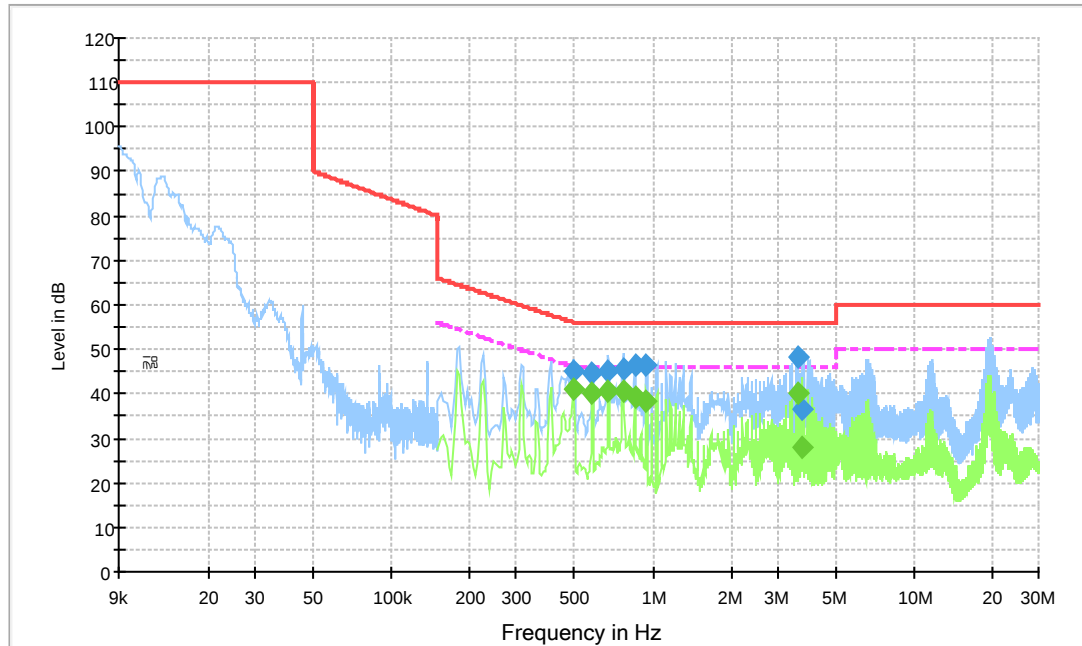
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.222 000	41.6	15 000.0	9.000	Off	N	19.6	21.1	62.7
0.674 000	42.2	15 000.0	9.000	Off	N	19.6	13.8	56.0
0.766 000	42.0	15 000.0	9.000	Off	N	19.6	14.0	56.0
0.854 000	42.8	15 000.0	9.000	Off	N	19.6	13.2	56.0
0.946 000	43.3	15 000.0	9.000	Off	N	19.6	12.7	56.0
1.034 000	42.2	15 000.0	9.000	Off	N	19.6	13.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.222 000	37.8	15 000.0	9.000	Off	N	19.6	14.9	52.7
0.674 000	37.2	15 000.0	9.000	Off	N	19.6	8.8	46.0
0.766 000	38.1	15 000.0	9.000	Off	N	19.6	7.9	46.0
0.854 000	38.6	15 000.0	9.000	Off	N	19.6	7.4	46.0
0.946 000	38.0	15 000.0	9.000	Off	N	19.6	8.0	46.0
1.034 000	36.9	15 000.0	9.000	Off	N	19.6	9.1	46.0

- R-F Cooking Zone Operating mode

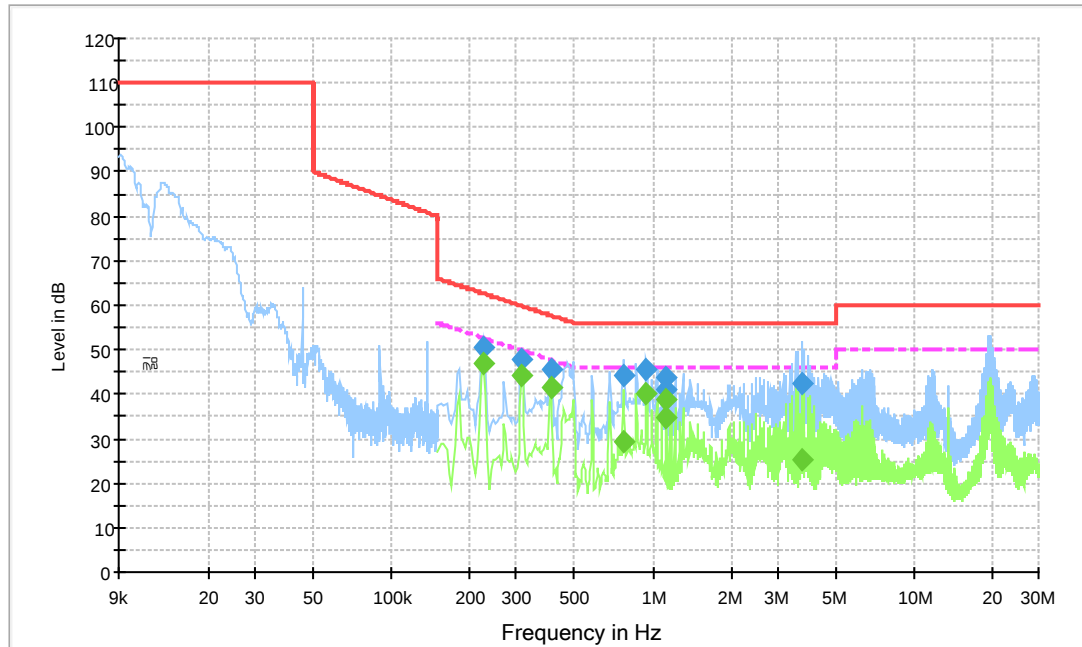


Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.494 000	45.1	15 000.0	9.000	Off	L1	19.6	11.0	56.1
0.586 000	44.8	15 000.0	9.000	Off	L1	19.6	11.2	56.0
0.674 000	45.0	15 000.0	9.000	Off	L1	19.6	11.0	56.0
0.770 000	45.6	15 000.0	9.000	Off	L1	19.6	10.4	56.0
0.854 000	46.5	15 000.0	9.000	Off	L1	19.6	9.5	56.0
0.946 000	46.4	15 000.0	9.000	Off	L1	19.6	9.6	56.0
3.602 000	48.4	15 000.0	9.000	Off	L1	19.7	7.6	56.0
3.750 000	36.6	15 000.0	9.000	Off	L1	19.7	19.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.494 000	40.9	15 000.0	9.000	Off	L1	19.6	5.2	46.1
0.586 000	40.0	15 000.0	9.000	Off	L1	19.6	6.0	46.0
0.674 000	40.7	15 000.0	9.000	Off	L1	19.6	5.3	46.0
0.770 000	40.5	15 000.0	9.000	Off	L1	19.6	5.5	46.0
0.854 000	39.3	15 000.0	9.000	Off	L1	19.6	6.7	46.0
0.946 000	38.5	15 000.0	9.000	Off	L1	19.6	7.5	46.0
3.602 000	40.3	15 000.0	9.000	Off	L1	19.7	5.7	46.0
3.750 000	27.9	15 000.0	9.000	Off	L1	19.7	18.1	46.0



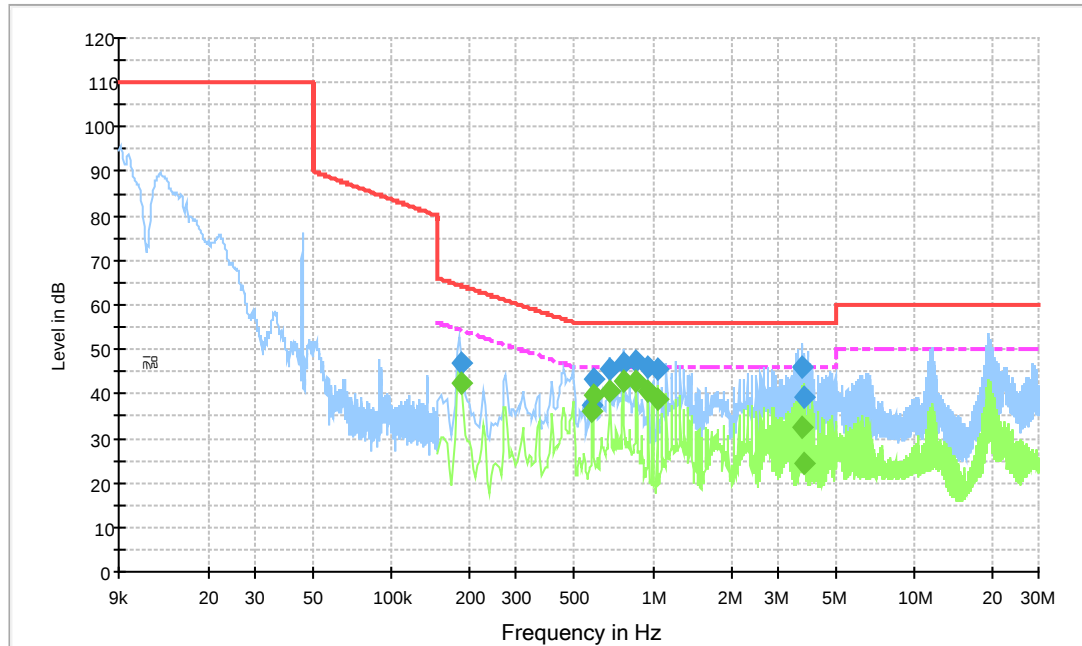
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	50.6	15 000.0	9.000	Off	N	19.6	12.0	62.6
0.314 000	47.6	15 000.0	9.000	Off	N	19.6	12.3	59.9
0.406 000	45.4	15 000.0	9.000	Off	N	19.6	12.3	57.7
0.774 000	44.3	15 000.0	9.000	Off	N	19.6	11.7	56.0
0.946 000	45.4	15 000.0	9.000	Off	N	19.6	10.6	56.0
1.122 000	40.9	15 000.0	9.000	Off	N	19.6	15.1	56.0
1.126 000	43.8	15 000.0	9.000	Off	N	19.6	12.2	56.0
3.706 000	42.4	15 000.0	9.000	Off	N	19.7	13.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	46.9	15 000.0	9.000	Off	N	19.6	5.7	52.6
0.314 000	44.3	15 000.0	9.000	Off	N	19.6	5.6	49.9
0.406 000	41.7	15 000.0	9.000	Off	N	19.6	6.0	47.7
0.774 000	29.3	15 000.0	9.000	Off	N	19.6	16.7	46.0
0.946 000	40.1	15 000.0	9.000	Off	N	19.6	5.9	46.0
1.122 000	34.5	15 000.0	9.000	Off	N	19.6	11.5	46.0
1.126 000	38.9	15 000.0	9.000	Off	N	19.6	7.1	46.0
3.706 000	25.2	15 000.0	9.000	Off	N	19.7	20.8	46.0

- R-R Cooking Zone Operating mode

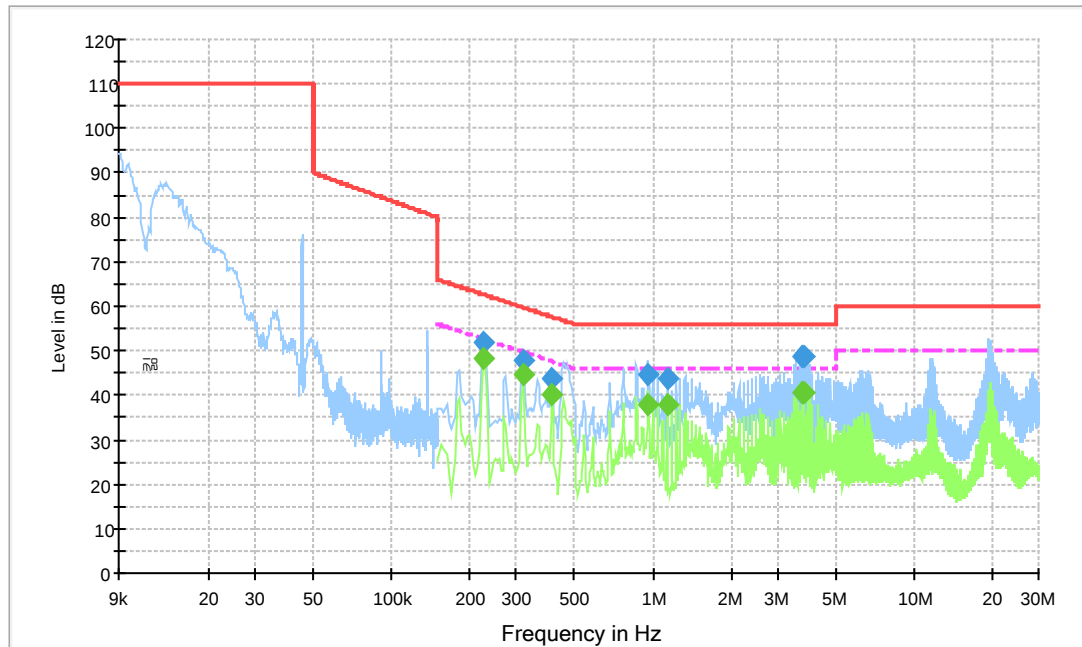


Final Result 1

Frequency (Mhz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.186 000	46.9	15 000.0	9.000	Off	L1	19.5	17.3	64.2
0.586 000	37.4	15 000.0	9.000	Off	L1	19.6	18.6	56.0
0.590 000	43.1	15 000.0	9.000	Off	L1	19.6	12.9	56.0
0.682 000	45.5	15 000.0	9.000	Off	L1	19.6	10.5	56.0
0.774 000	46.9	15 000.0	9.000	Off	L1	19.6	9.1	56.0
0.866 000	47.2	15 000.0	9.000	Off	L1	19.6	8.8	56.0
0.958 000	46.0	15 000.0	9.000	Off	L1	19.6	10.0	56.0
1.042 000	45.4	15 000.0	9.000	Off	L1	19.6	10.6	56.0
3.714 000	46.1	15 000.0	9.000	Off	L1	19.7	9.9	56.0
3.794 000	39.2	15 000.0	9.000	Off	L1	19.7	16.8	56.0

Final Result 2

Frequency (Mhz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.186 000	42.6	15 000.0	9.000	Off	L1	19.5	11.6	54.2
0.586 000	35.9	15 000.0	9.000	Off	L1	19.6	10.1	46.0
0.590 000	39.6	15 000.0	9.000	Off	L1	19.6	6.4	46.0
0.682 000	40.6	15 000.0	9.000	Off	L1	19.6	5.4	46.0
0.774 000	42.7	15 000.0	9.000	Off	L1	19.6	3.3	46.0
0.866 000	42.8	15 000.0	9.000	Off	L1	19.6	3.2	46.0
0.958 000	40.5	15 000.0	9.000	Off	L1	19.6	5.5	46.0
1.042 000	38.9	15 000.0	9.000	Off	L1	19.6	7.1	46.0
3.714 000	32.6	15 000.0	9.000	Off	L1	19.7	13.4	46.0
3.794 000	24.2	15 000.0	9.000	Off	L1	19.7	21.8	46.0



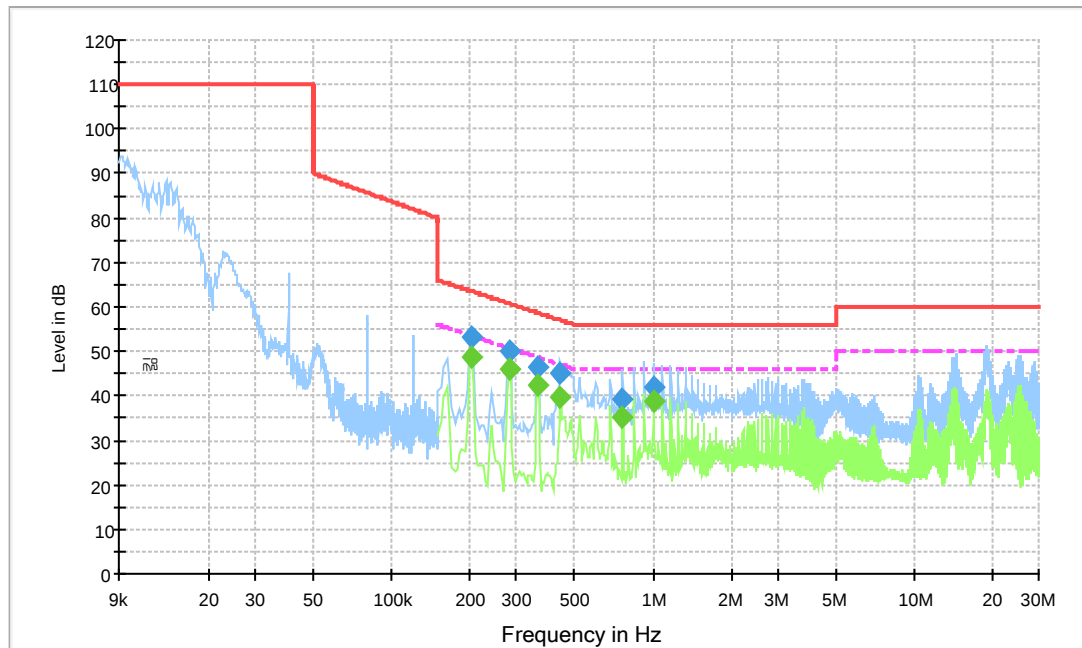
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	51.9	15 000.0	9.000	Off	N	19.6	10.7	62.6
0.318 000	48.0	15 000.0	9.000	Off	N	19.6	11.8	59.8
0.410 000	43.6	15 000.0	9.000	Off	N	19.6	14.0	57.6
0.958 000	44.5	15 000.0	9.000	Off	N	19.6	11.5	56.0
1.138 000	43.9	15 000.0	9.000	Off	N	19.6	12.1	56.0
3.730 000	48.5	15 000.0	9.000	Off	N	19.7	7.5	56.0
3.822 000	48.8	15 000.0	9.000	Off	N	19.7	7.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	48.4	15 000.0	9.000	Off	N	19.6	4.2	52.6
0.318 000	44.4	15 000.0	9.000	Off	N	19.6	5.4	49.8
0.410 000	40.0	15 000.0	9.000	Off	N	19.6	7.6	47.6
0.958 000	37.8	15 000.0	9.000	Off	N	19.6	8.2	46.0
1.138 000	38.0	15 000.0	9.000	Off	N	19.6	8.0	46.0
3.730 000	40.4	15 000.0	9.000	Off	N	19.7	5.6	46.0
3.822 000	40.7	15 000.0	9.000	Off	N	19.7	5.3	46.0

- Dual Cooking Zone Operating mode

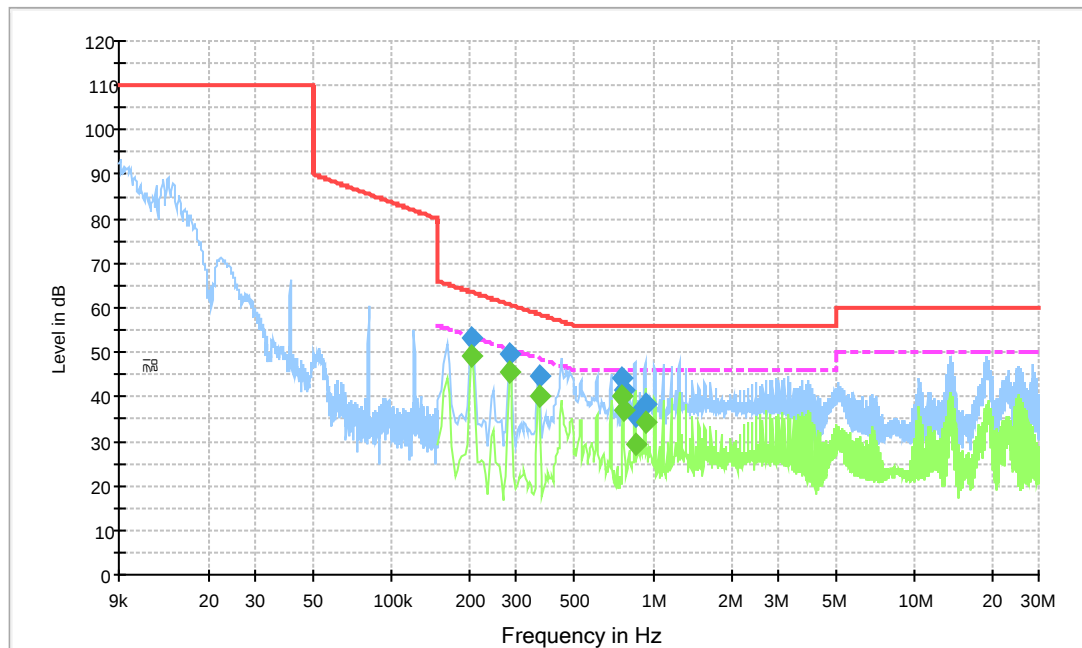


Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202 000	53.1	15 000.0	9.000	Off	L1	19.5	10.4	63.5
0.282 000	50.2	15 000.0	9.000	Off	L1	19.6	10.6	60.8
0.362 000	46.7	15 000.0	9.000	Off	L1	19.6	12.0	58.7
0.442 000	45.1	15 000.0	9.000	Off	L1	19.6	11.9	57.0
0.766 000	39.1	15 000.0	9.000	Off	L1	19.6	16.9	56.0
1.006 000	42.1	15 000.0	9.000	Off	L1	19.6	13.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202 000	48.6	15 000.0	9.000	Off	L1	19.5	4.9	53.5
0.282 000	45.9	15 000.0	9.000	Off	L1	19.6	4.9	50.8
0.362 000	42.6	15 000.0	9.000	Off	L1	19.6	6.1	48.7
0.442 000	39.9	15 000.0	9.000	Off	L1	19.6	7.1	47.0
0.766 000	35.0	15 000.0	9.000	Off	L1	19.6	11.0	46.0
1.006 000	39.0	15 000.0	9.000	Off	L1	19.6	7.0	46.0



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202 000	53.3	15 000.0	9.000	Off	N	19.5	10.2	63.5
0.282 000	49.6	15 000.0	9.000	Off	N	19.6	11.2	60.8
0.366 000	44.5	15 000.0	9.000	Off	N	19.6	14.1	58.6
0.766 000	44.2	15 000.0	9.000	Off	N	19.6	11.8	56.0
0.770 000	41.3	15 000.0	9.000	Off	N	19.6	14.7	56.0
0.854 000	35.5	15 000.0	9.000	Off	N	19.6	20.5	56.0
0.934 000	38.4	15 000.0	9.000	Off	N	19.6	17.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202 000	49.4	15 000.0	9.000	Off	N	19.5	4.1	53.5
0.282 000	45.6	15 000.0	9.000	Off	N	19.6	5.2	50.8
0.366 000	40.2	15 000.0	9.000	Off	N	19.6	8.4	48.6
0.766 000	40.1	15 000.0	9.000	Off	N	19.6	5.9	46.0
0.770 000	37.0	15 000.0	9.000	Off	N	19.6	9.0	46.0
0.854 000	29.5	15 000.0	9.000	Off	N	19.6	16.5	46.0
0.934 000	34.4	15 000.0	9.000	Off	N	19.6	11.6	46.0

Measurement Uncertainty : 3.92 dB (The confidential level is about 95 %, $k = 2$)

Note1 : • Line (L1) : Hot • Line (N) : Neutral
 • Margin = Limit – Quasi Peak or CAverage
 • Corr. = LISN Factor + Cable loss + Pulse Limiter Factor

Note2 : This test has been conducted at 240 V~ which is the worst condition from operating voltages 208 V~ or 240 V~.

Ex) In case

Freq ; 0.5 MHz, level ; 30 dB(μ V), CL ; 0.2 dB, LISN ; 9.5 dB, P/L: 9.8 dB

Result = Level + CL + LISN + P/L
 = 30 + 0.2 + 9.5 + 9.8 = 49.5

Margin = Limit – Result
 = 79 - 49.5 = 29.5

2.4 Radiated Emission

The initial preliminary exploratory scans were performed at 10 m distance over the measuring frequency range (9 kHz to 30 MHz) using a max hold mode incorporating a Peak detector and using the software of EMC32 (Version V9.15 from R&S). The final test data was measured using a Quasi-Peak detector. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was 2 m under 30 MHz.

2.4.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU26	R&S	100570	2019.02.23
LOOP ANTENNA	HFH2-Z2	R&S	827525/002	2018.11.29
10m SEMI-ANECHOIC CHAMBER	-	SY CORPORATION	-	-

Note : The Antenna calibration period is 2 years, but the other equipment calibration period are 1 year.

2.4.2 Test Site

10m SEMI-ANECHOIC CHAMBER in Giheung 1 Laboratory

2.4.3 Environment Conditions

Temperature : (Minimum 22.0, Maximum 23.0) °C

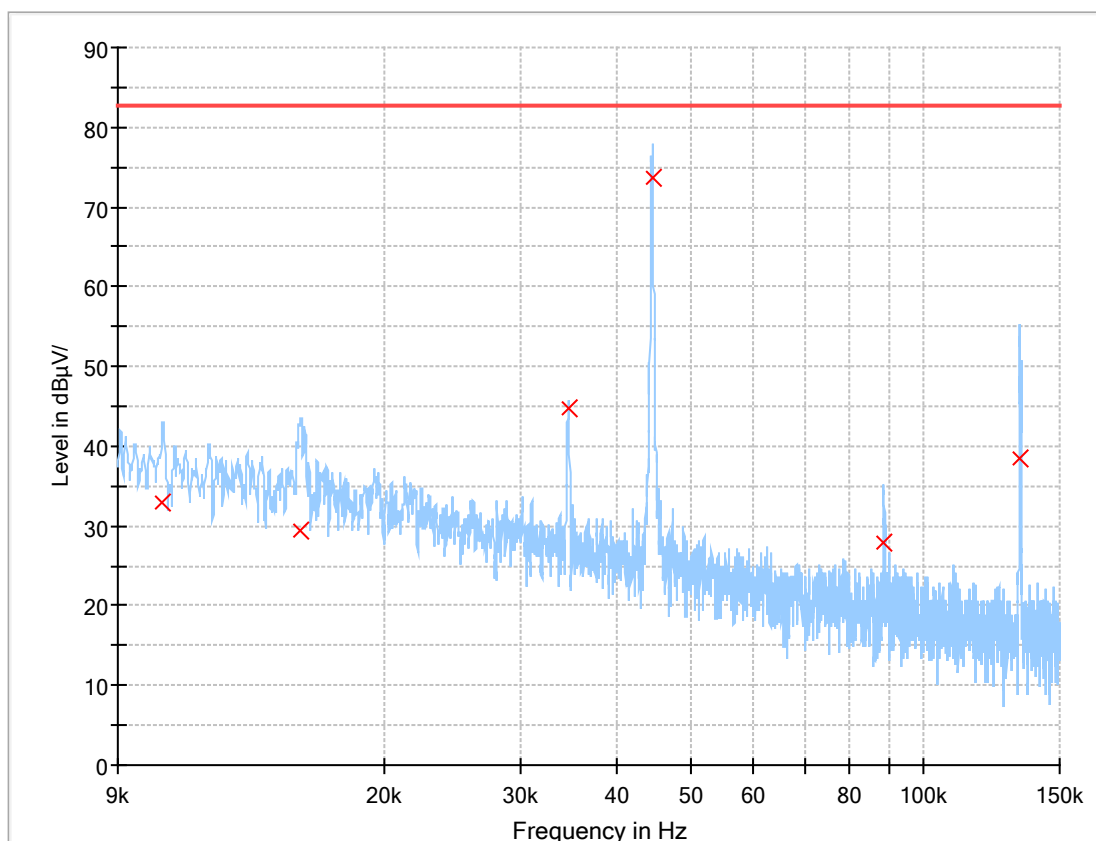
Humidity : (Minimum 48.0, Maximum 49.0) %R.H.

Atmospheric Pressure : (Minimum 99.8, Maximum 99.8) kPa

Test Date : August 13, 2018

2.4.4 Test Results

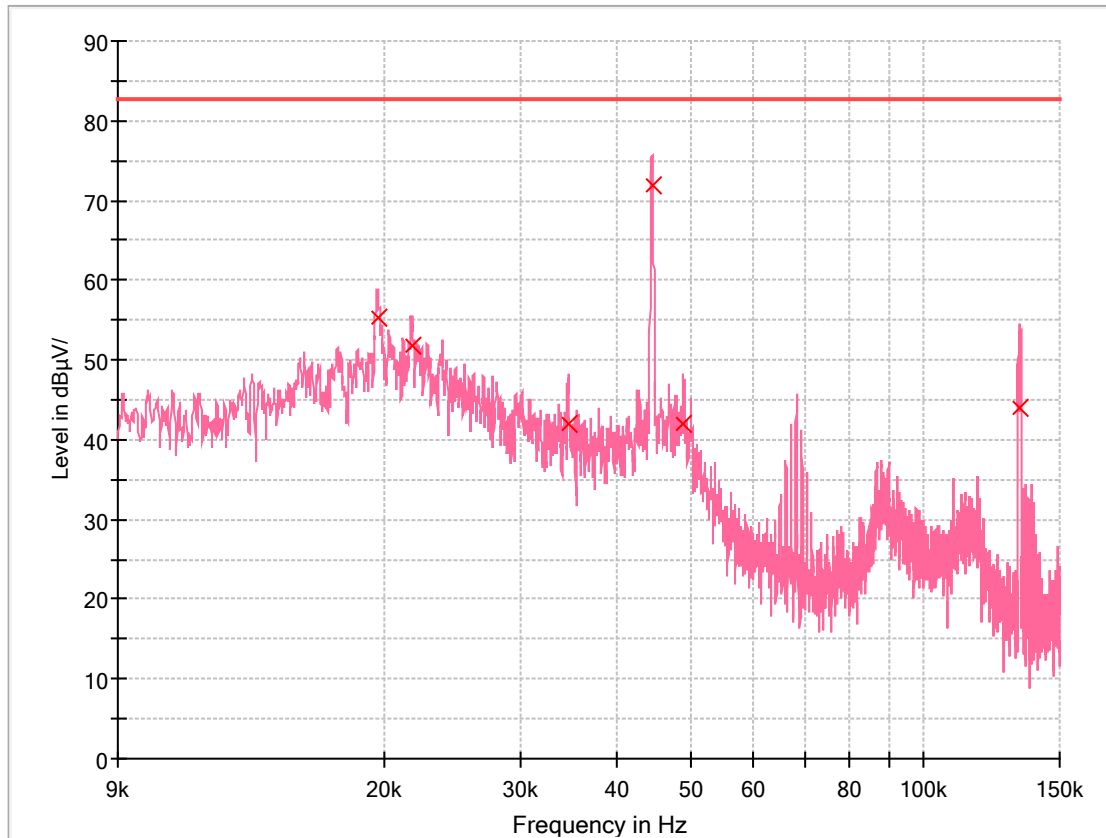
- L-R Cooking Zone Operating mode
 - Test Frequency: 9 kHz ~ 150 kHz
 - < Horizontal >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.010 297	32.95	82.60	49.65	15 000.0	0.200	H	0.0	19.2
0.015 556	29.53	82.60	53.07	15 000.0	0.200	H	59.0	19.5
0.034 563	44.87	82.60	37.73	15 000.0	0.200	H	210.0	19.7
0.044 490	73.59	82.60	9.01	15 000.0	0.200	H	286.0	19.8
0.088 778	27.86	82.60	54.74	15 000.0	0.200	H	0.0	19.8
0.133 207	38.53	82.60	44.07	15 000.0	0.200	H	135.0	19.8

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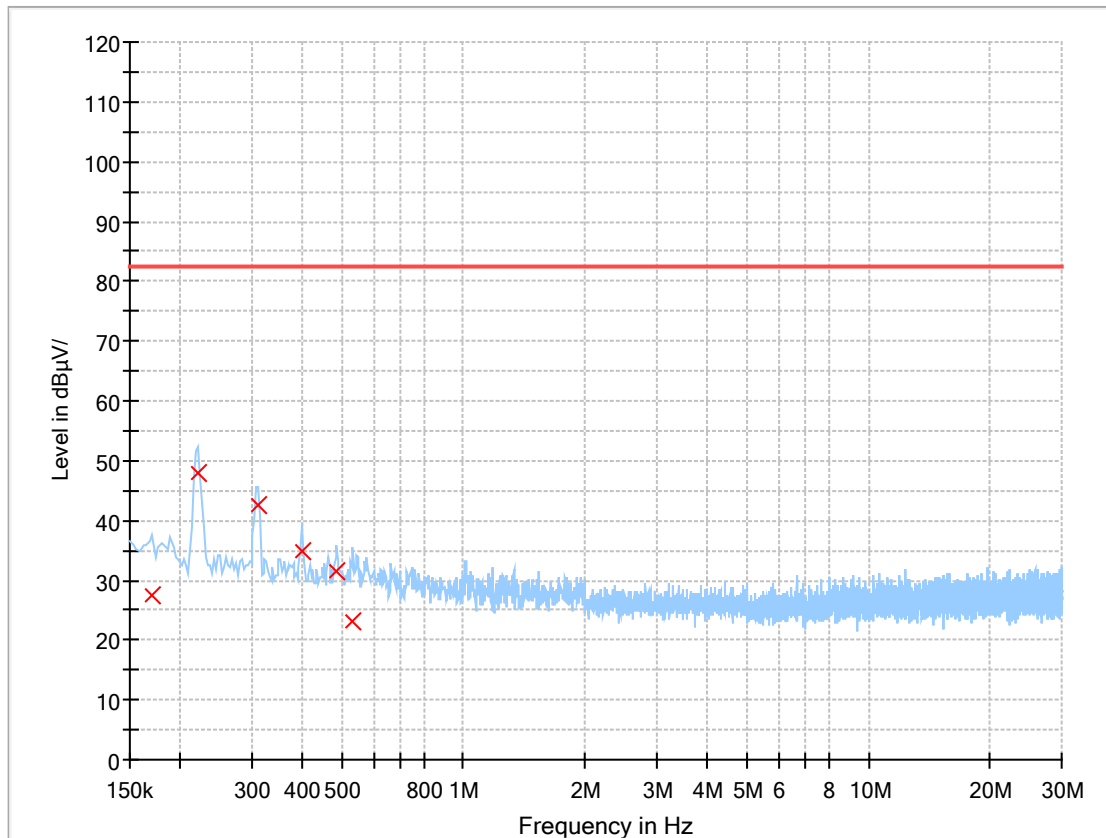


Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 547	55.37	82.60	27.23	15 000.0	0.200	V	0.0	19.7
0.021 690	51.86	82.60	30.74	15 000.0	0.200	V	60.0	19.7
0.034 662	42.08	82.60	40.52	15 000.0	0.200	V	0.0	19.7
0.044 377	71.88	82.60	10.72	15 000.0	0.200	V	0.0	19.8
0.048 748	41.93	82.60	40.67	15 000.0	0.200	V	135.0	19.8
0.133 024	44.10	82.60	38.50	15 000.0	0.200	V	0.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

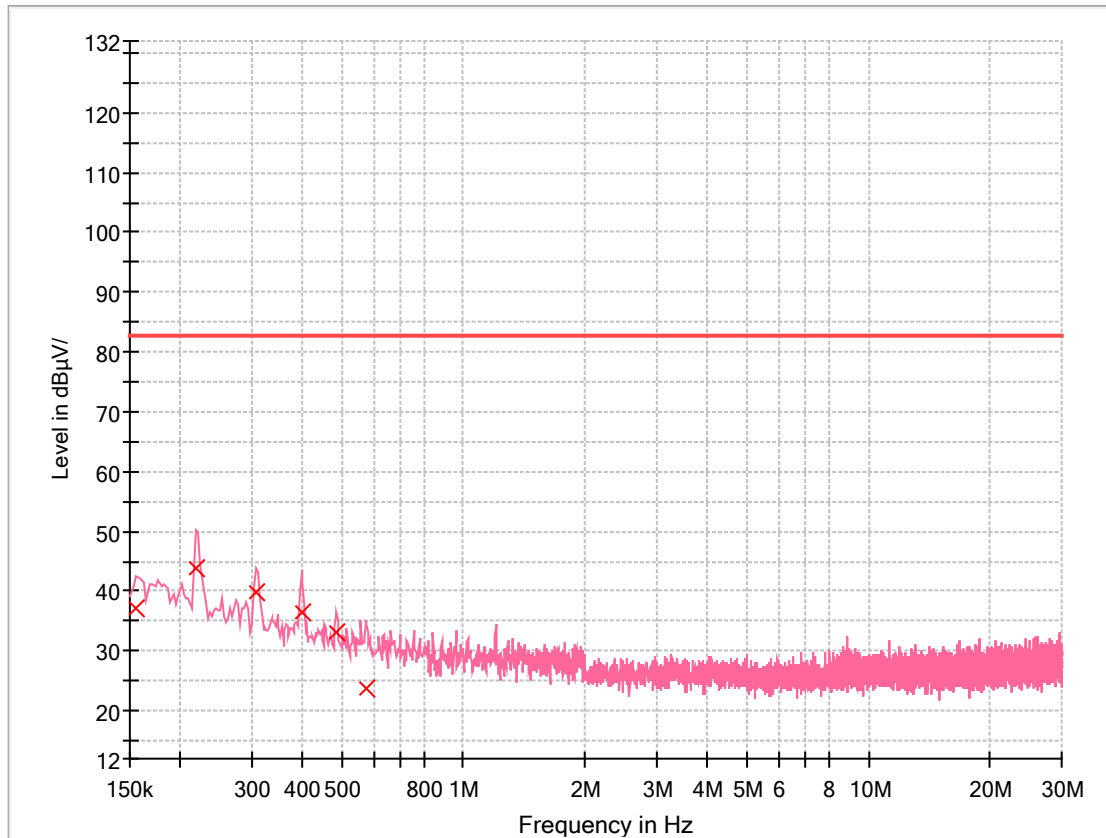
< Horizontal >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.170 895	27.46	82.60	55.14	15 000.0	9.000	H	39.0	19.8
0.221 640	47.96	82.60	34.64	15 000.0	9.000	H	242.0	19.7
0.311 190	42.58	82.60	40.02	15 000.0	9.000	H	282.0	19.7
0.397 755	34.93	82.60	47.67	15 000.0	9.000	H	302.0	19.7
0.487 305	31.39	82.60	51.21	15 000.0	9.000	H	242.0	19.7
0.532 080	23.17	82.60	59.43	15 000.0	9.000	H	0.0	19.7

< Vertical >



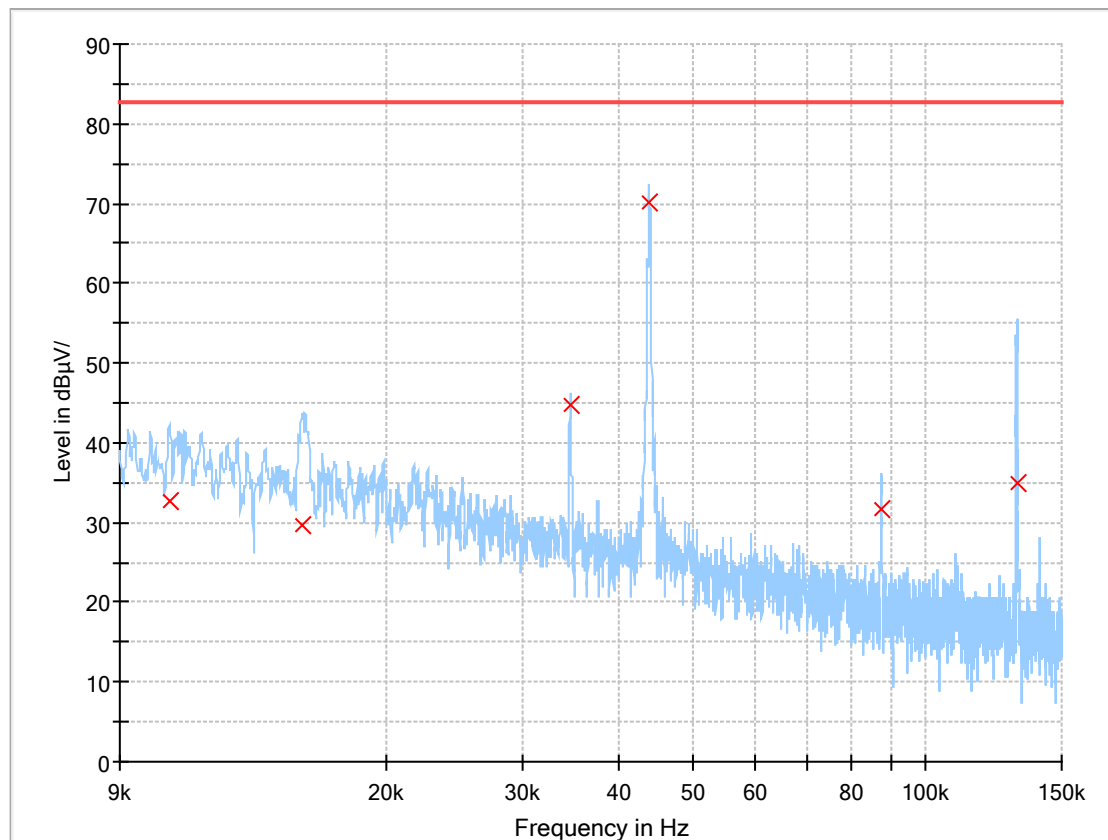
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	37.29	82.60	45.31	15 000.0	9.000	V	322.0	19.8
0.218 655	43.77	82.60	38.83	15 000.0	9.000	V	0.0	19.7
0.308 205	39.84	82.60	42.76	15 000.0	9.000	V	0.0	19.7
0.397 755	36.53	82.60	46.07	15 000.0	9.000	V	0.0	19.7
0.487 305	33.09	82.60	49.51	15 000.0	9.000	V	0.0	19.7
0.573 870	23.89	82.60	58.72	15 000.0	9.000	V	102.0	19.7

- L-F Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

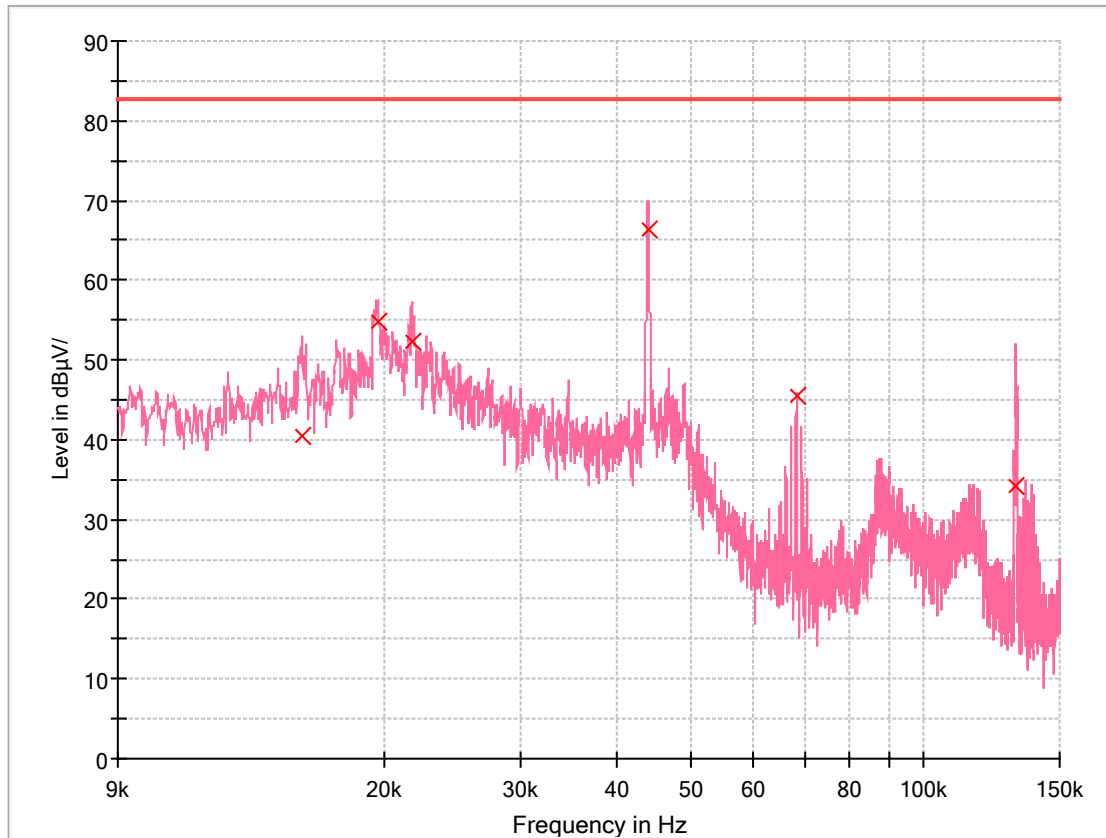
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.010 452	32.78	82.60	49.82	15 000.0	0.200	H	224.0	19.3
0.015 486	29.60	82.60	53.00	15 000.0	0.200	H	149.0	19.5
0.034 563	44.68	82.60	37.92	15 000.0	0.200	H	0.0	19.7
0.043 672	70.19	82.60	12.41	15 000.0	0.200	H	300.0	19.8
0.087 466	31.76	82.60	50.84	15 000.0	0.200	H	224.0	19.8
0.131 473	34.88	82.60	47.72	15 000.0	0.200	H	300.0	19.8

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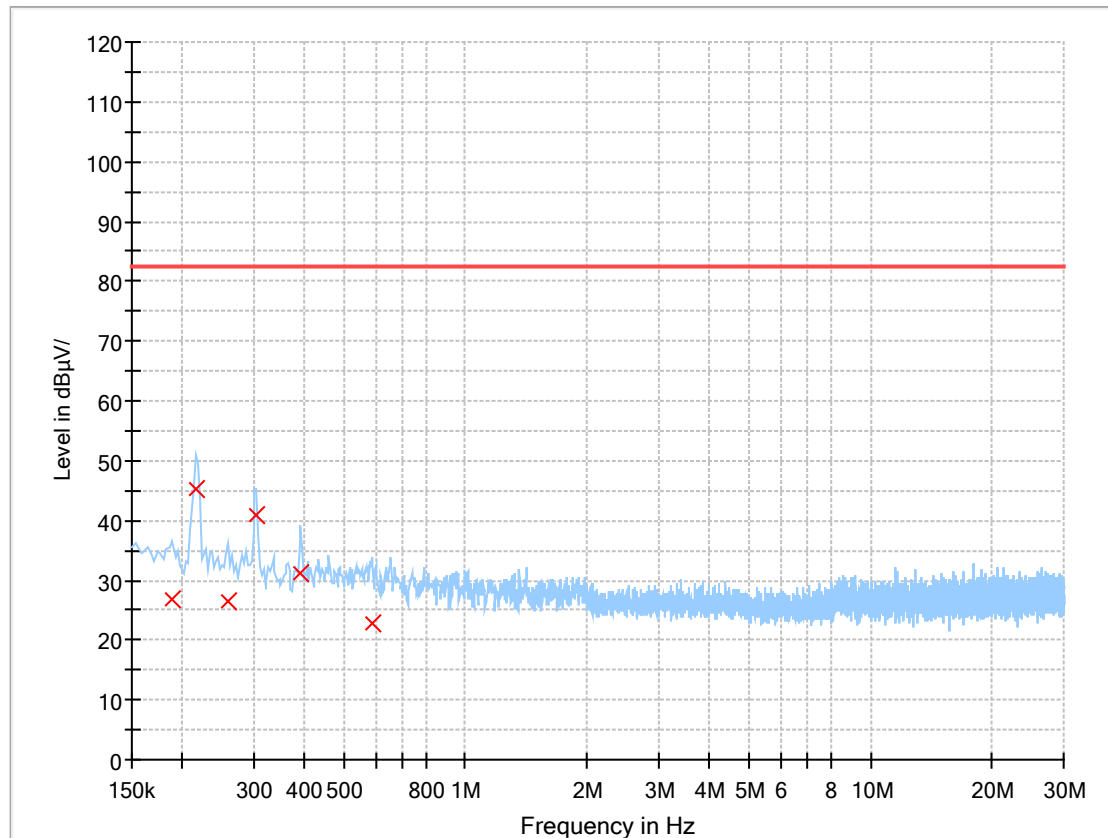


Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 599	40.57	82.60	42.03	15 000.0	0.200	V	286.0	19.5
0.019 561	54.92	82.60	27.68	15 000.0	0.200	V	0.0	19.7
0.021 634	52.19	82.60	30.41	15 000.0	0.200	V	60.0	19.7
0.043 855	66.48	82.60	16.12	15 000.0	0.200	V	60.0	19.8
0.068 333	45.55	82.60	37.05	15 000.0	0.200	V	210.0	19.8
0.131 261	34.18	82.60	48.42	15 000.0	0.200	V	136.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

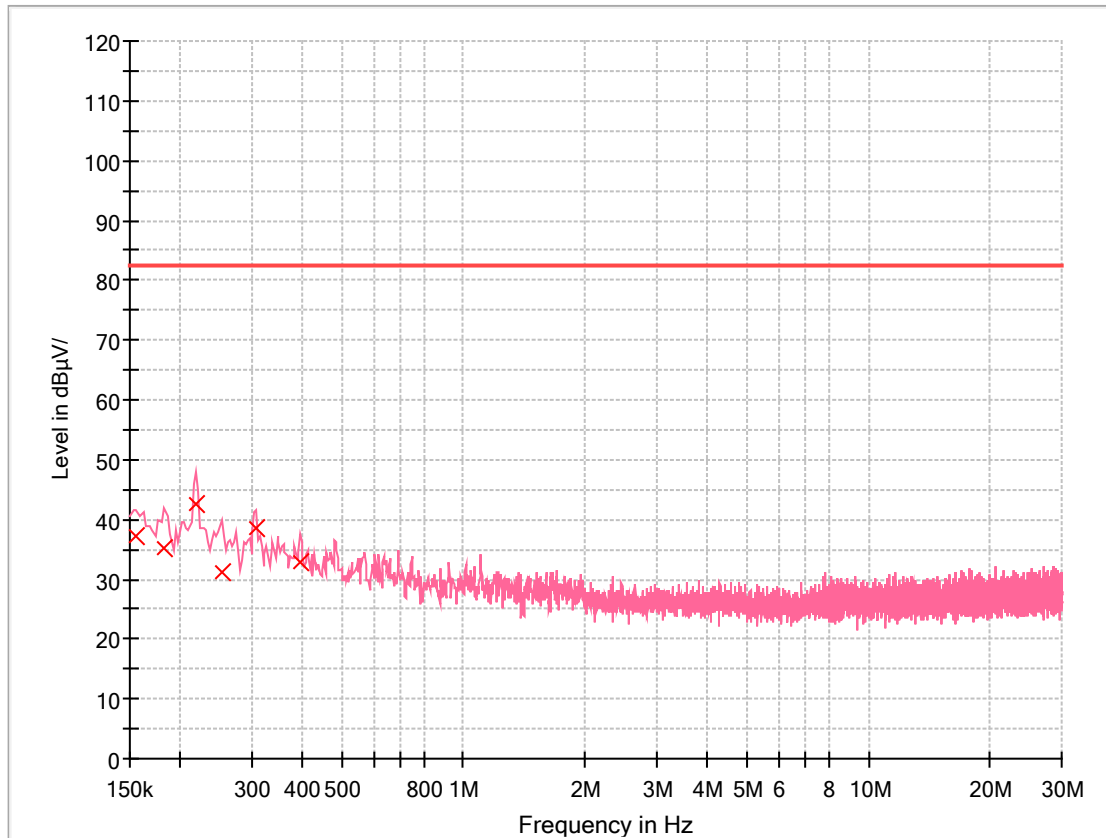
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.188 805	26.76	82.60	55.84	15 000.0	9.000	H	280.0	19.7
0.215 670	45.36	82.60	37.24	15 000.0	9.000	H	342.0	19.7
0.260 445	26.32	82.60	56.28	15 000.0	9.000	H	220.0	19.7
0.305 220	40.74	82.60	41.86	15 000.0	9.000	H	321.0	19.7
0.391 785	31.22	82.60	51.38	15 000.0	9.000	H	280.0	19.7
0.585 810	22.69	82.60	59.91	15 000.0	9.000	H	140.0	19.7

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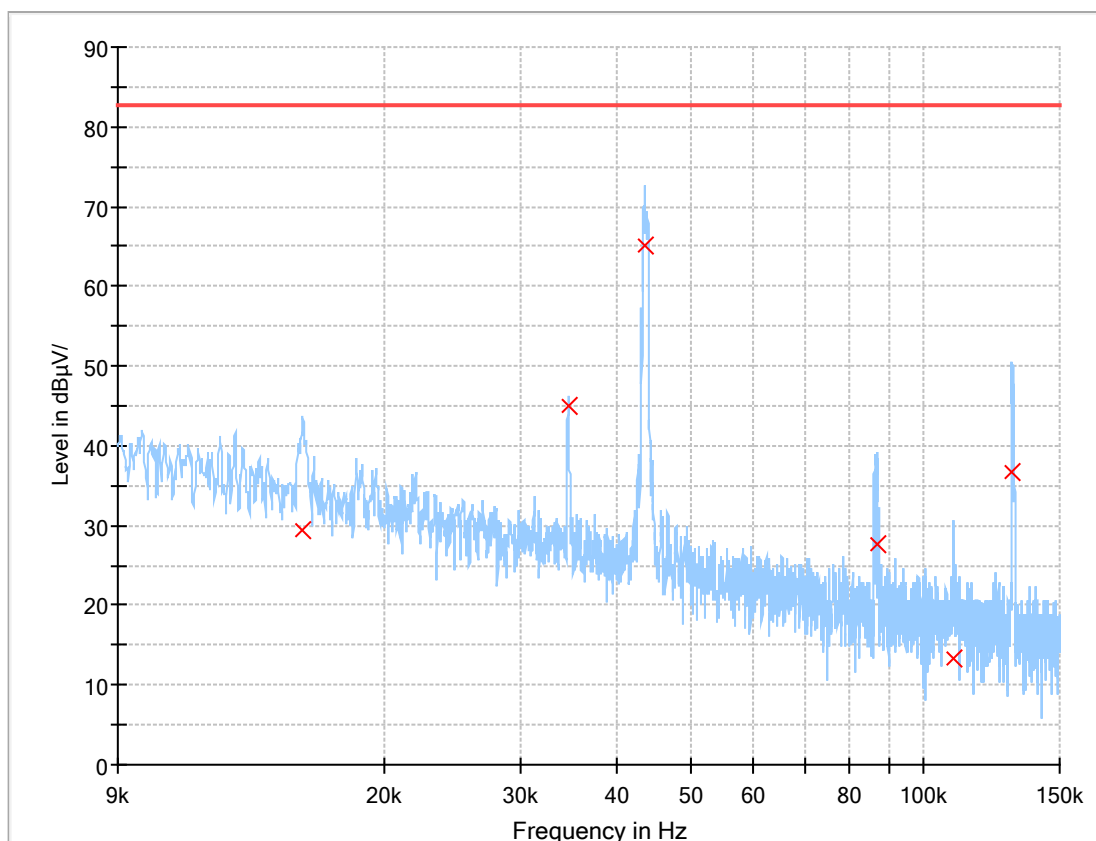
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	37.30	82.60	45.30	15 000.0	9.000	V	120.0	19.8
0.182 835	35.29	82.60	47.31	15 000.0	9.000	V	0.0	19.8
0.218 655	42.67	82.60	39.93	15 000.0	9.000	V	260.0	19.7
0.254 475	31.01	82.60	51.59	15 000.0	9.000	V	239.0	19.7
0.308 205	38.61	82.60	43.99	15 000.0	9.000	V	41.0	19.7
0.394 770	32.81	82.60	49.79	15 000.0	9.000	V	21.0	19.7

● R-F Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

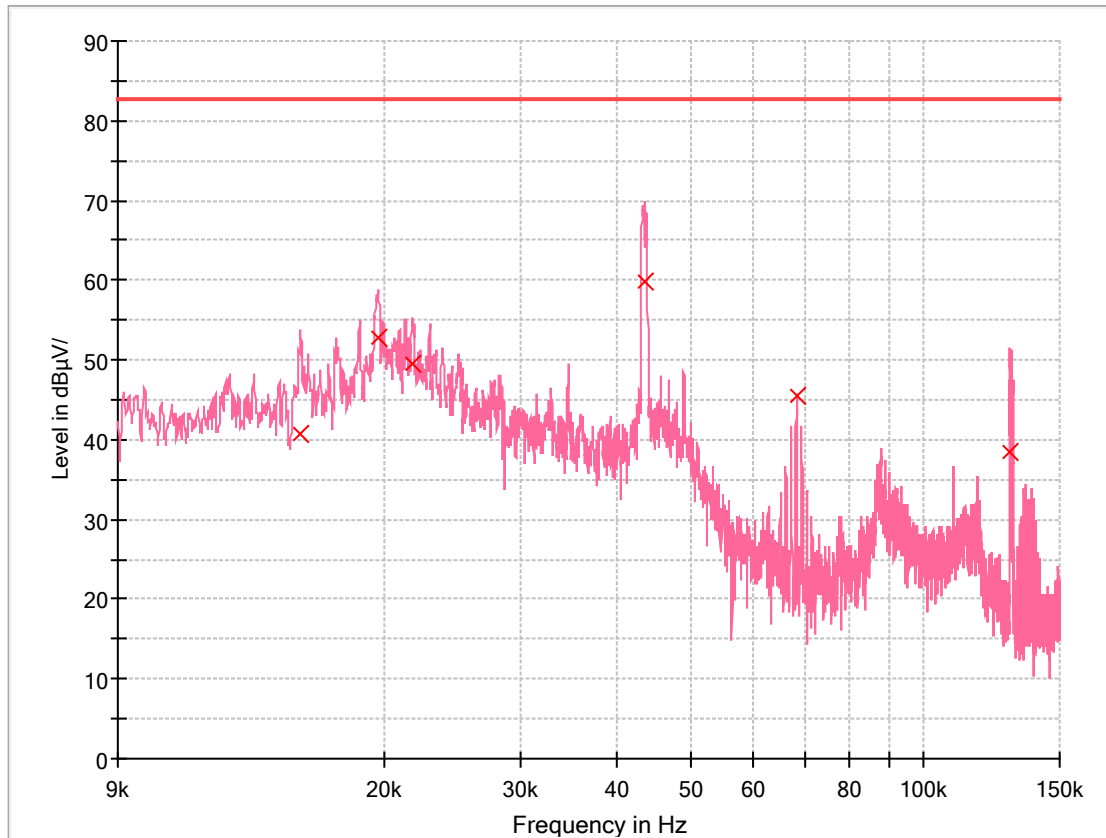
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Final Result

Frequency (kHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 641	29.35	82.60	53.25	15 000.0	0.200	H	49.0	19.5
0.034 563	44.92	82.60	37.68	15 000.0	0.200	H	286.0	19.7
0.043 446	65.12	82.60	17.48	15 000.0	0.200	H	199.0	19.8
0.086 888	27.55	82.60	55.05	15 000.0	0.200	H	359.0	19.8
0.109 406	13.44	82.60	69.16	15 000.0	0.200	H	49.0	19.8
0.130 316	36.63	82.60	45.97	15 000.0	0.200	H	123.0	19.8

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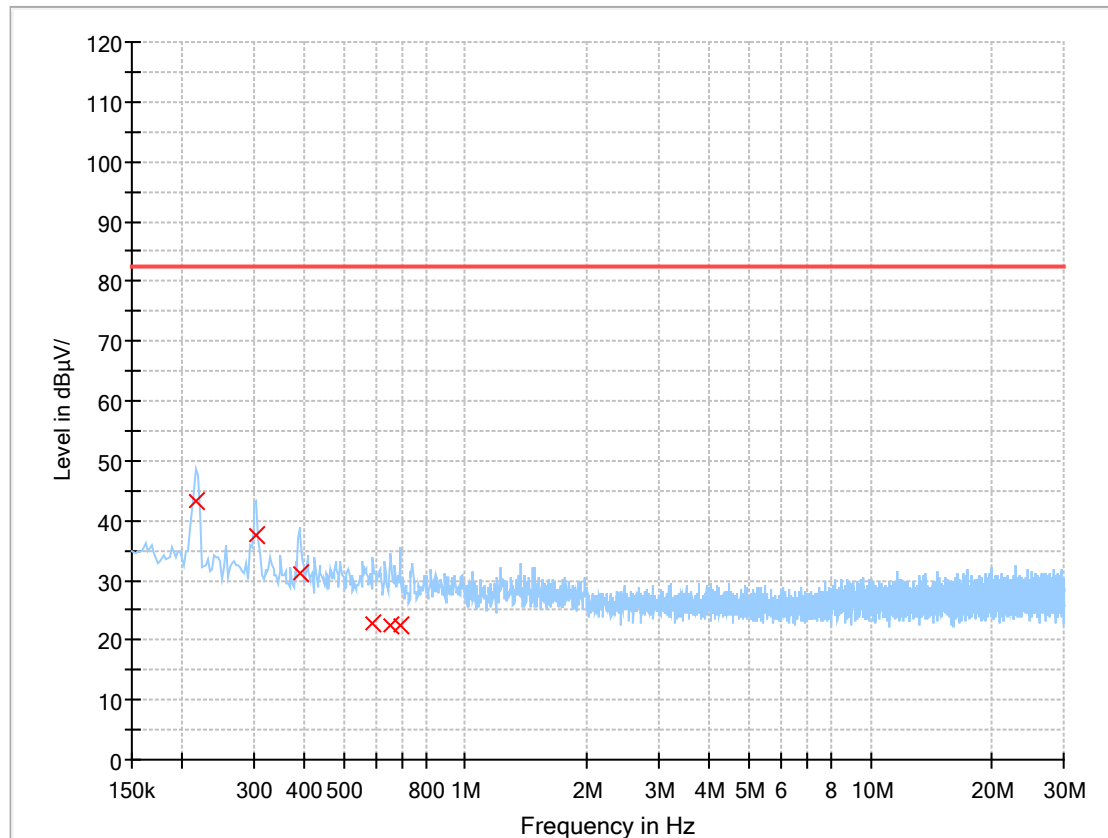


Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 528	40.65	82.60	41.95	15 000.0	0.200	V	134.0	19.5
0.019 589	52.88	82.60	29.72	15 000.0	0.200	V	134.0	19.7
0.021 732	49.60	82.60	33.00	15 000.0	0.200	V	58.0	19.7
0.043 446	59.84	82.60	22.76	15 000.0	0.200	V	58.0	19.8
0.068 347	45.58	82.60	37.02	15 000.0	0.200	V	209.0	19.8
0.129 442	38.48	82.60	44.12	15 000.0	0.200	V	58.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

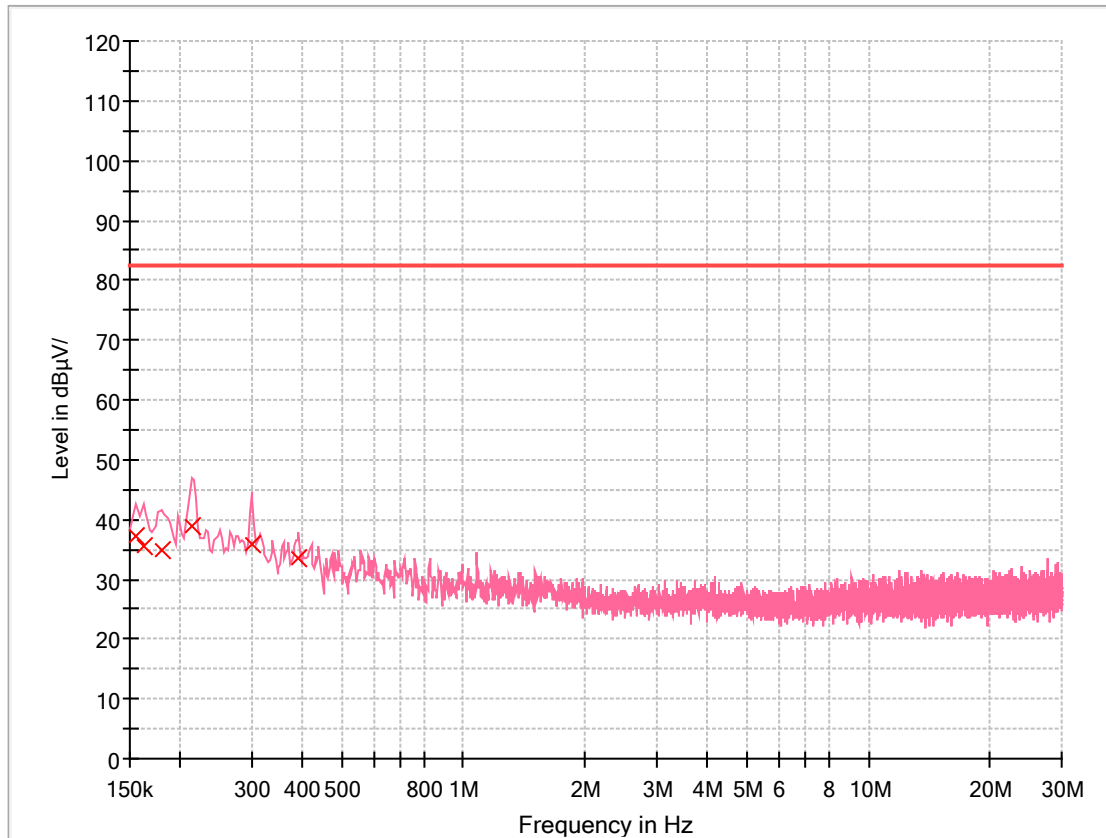
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.215 670	43.24	82.60	39.36	15 000.0	9.000	H	102.0	19.7
0.305 220	37.67	82.60	44.93	15 000.0	9.000	H	121.0	19.7
0.388 800	31.20	82.60	51.40	15 000.0	9.000	H	341.0	19.7
0.591 780	22.69	82.60	59.91	15 000.0	9.000	H	81.0	19.7
0.654 465	22.61	82.60	59.99	15 000.0	9.000	H	220.0	19.8
0.690 285	22.32	82.60	60.28	15 000.0	9.000	H	359.0	19.8

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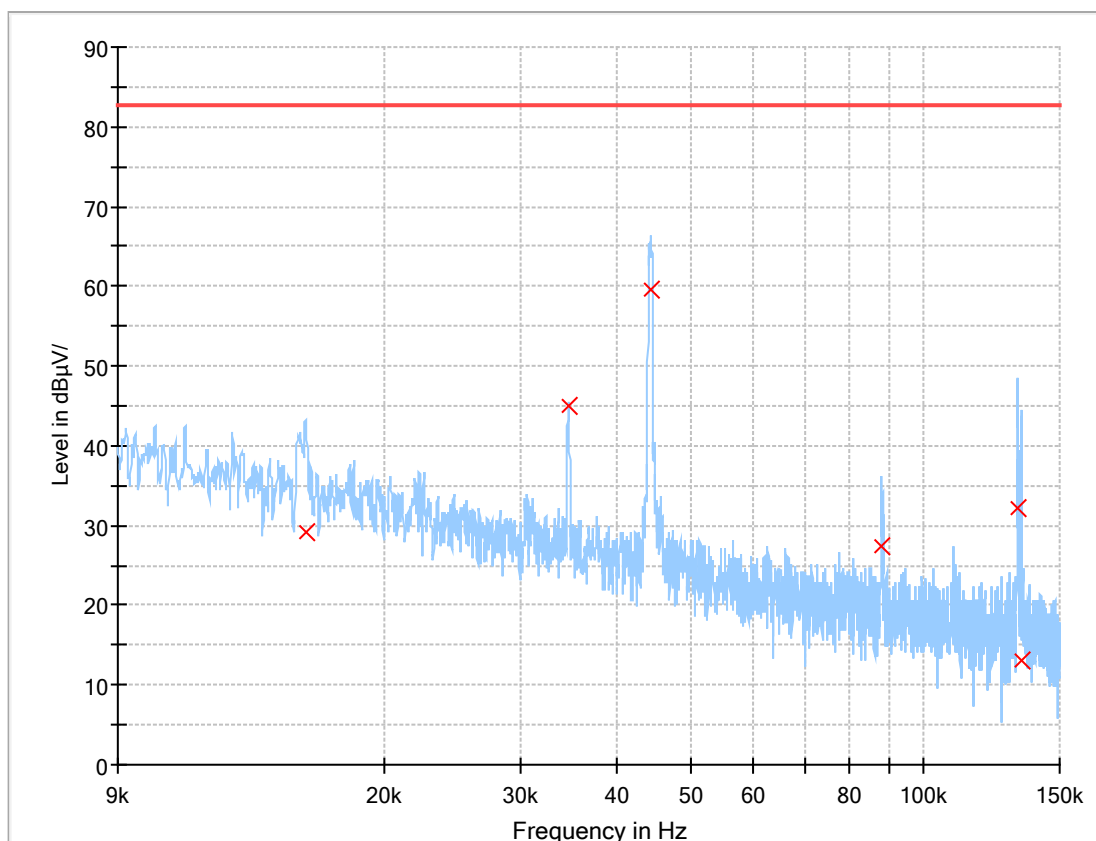
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	37.25	82.60	45.35	15 000.0	9.000	V	258.0	19.8
0.161 940	35.58	82.60	47.02	15 000.0	9.000	V	358.0	19.8
0.179 850	34.85	82.60	47.75	15 000.0	9.000	V	0.0	19.8
0.212 685	39.02	82.60	43.58	15 000.0	9.000	V	4.0	19.7
0.299 250	35.83	82.60	46.77	15 000.0	9.000	V	178.0	19.8
0.391 785	33.54	82.60	49.06	15 000.0	9.000	V	238.0	19.7

- R-R Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

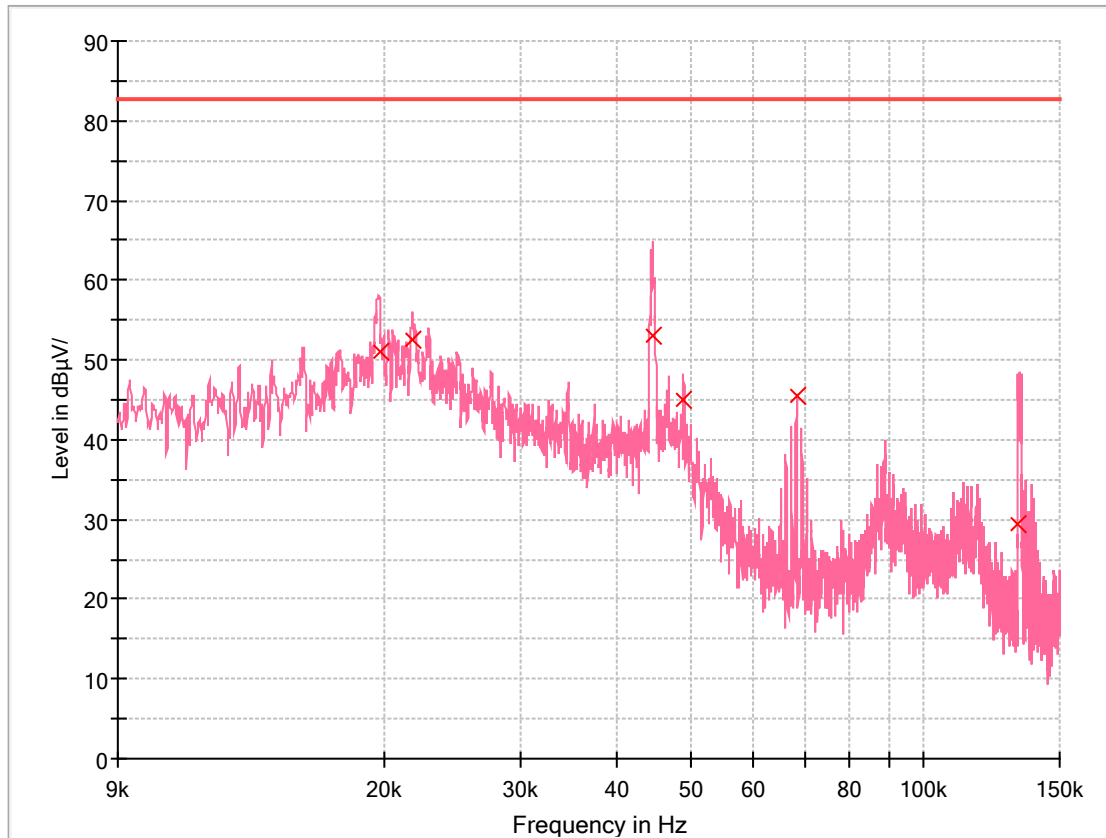
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 754	29.28	82.60	53.32	15 000.0	0.200	H	287.0	19.5
0.034 563	44.88	82.60	37.72	15 000.0	0.200	H	136.0	19.7
0.044 123	59.50	82.60	23.10	15 000.0	0.200	H	359.0	19.8
0.088 115	27.41	82.60	55.19	15 000.0	0.200	H	136.0	19.8
0.132 051	32.26	82.60	50.34	15 000.0	0.200	H	136.0	19.8
0.133 898	13.03	82.60	69.57	15 000.0	0.200	H	210.0	19.8

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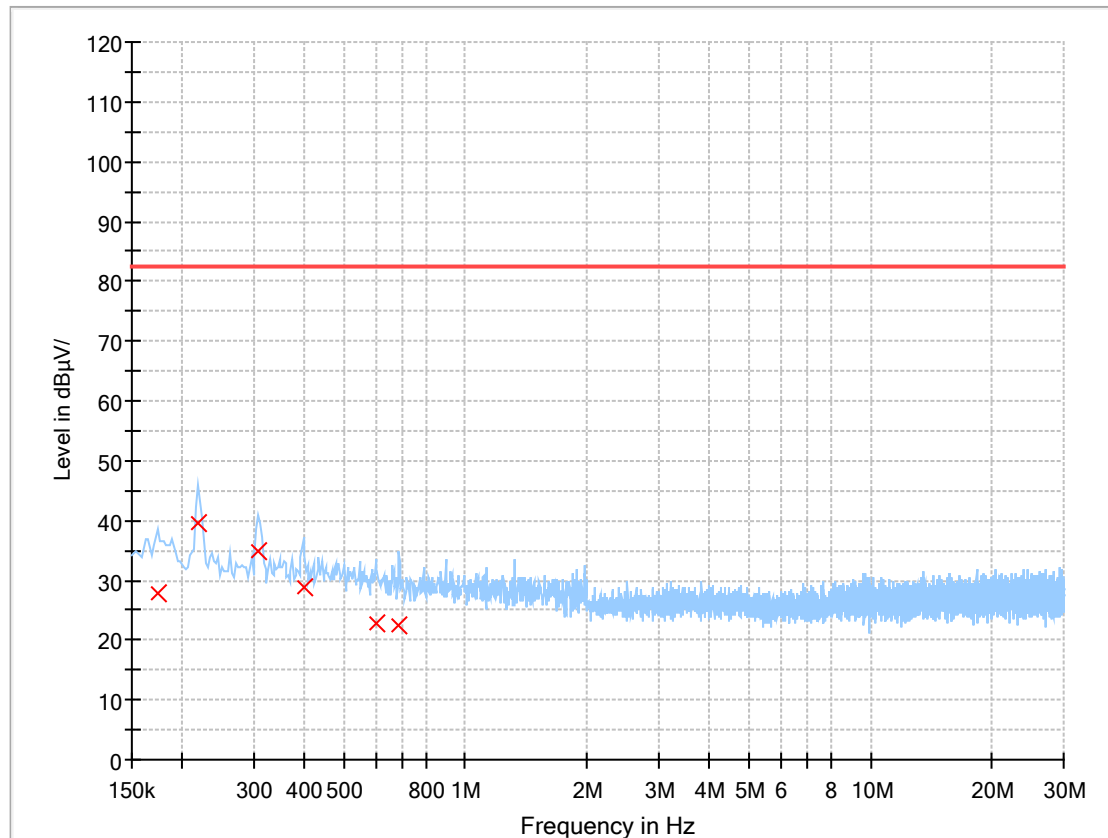


Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 660	50.99	82.60	31.61	15 000.0	0.200	V	300.0	19.7
0.021 704	52.48	82.60	30.12	15 000.0	0.200	V	300.0	19.7
0.044 560	53.06	82.60	29.54	15 000.0	0.200	V	0.0	19.8
0.048 790	45.07	82.60	37.53	15 000.0	0.200	V	150.0	19.8
0.068 333	45.53	82.60	37.07	15 000.0	0.200	V	0.0	19.8
0.132 601	29.43	82.60	53.17	15 000.0	0.200	V	0.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

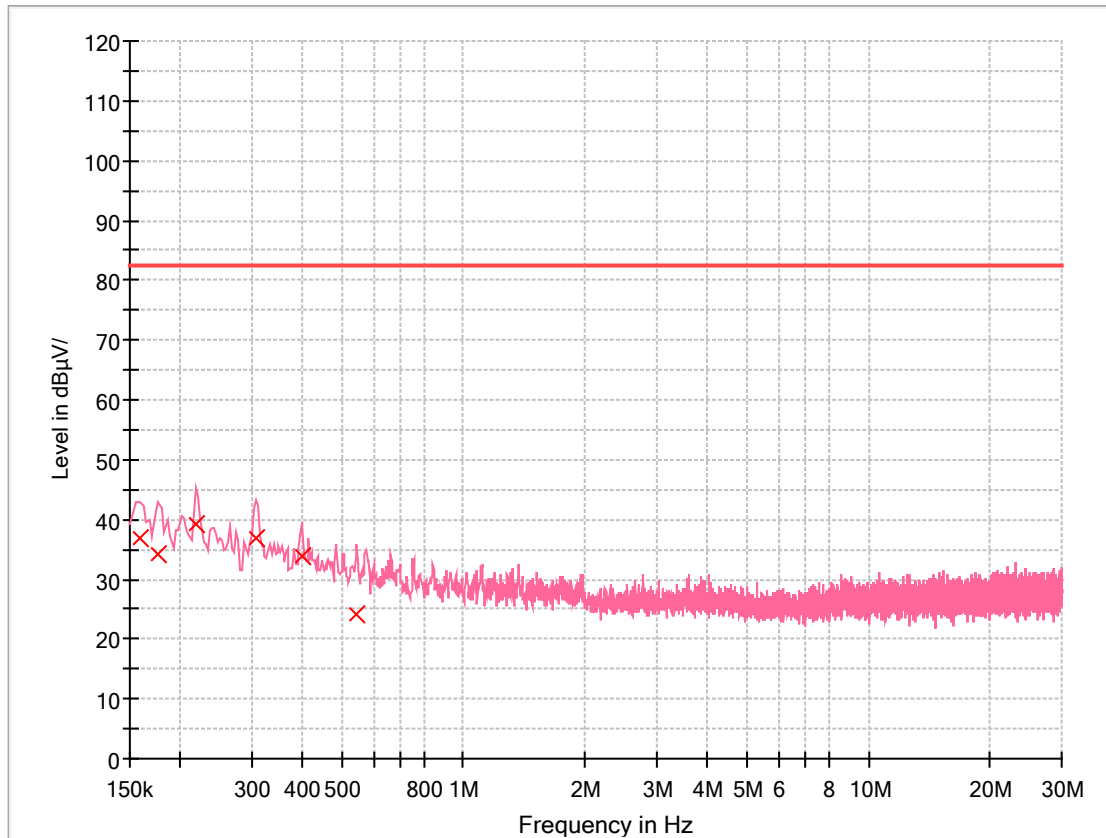
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.173 880	27.77	82.60	54.83	15 000.0	9.000	H	100.0	19.8
0.218 655	39.40	82.60	43.20	15 000.0	9.000	H	120.0	19.7
0.308 205	34.78	82.60	47.82	15 000.0	9.000	H	79.0	19.7
0.397 755	28.87	82.60	53.73	15 000.0	9.000	H	0.0	19.7
0.600 735	22.66	82.60	59.94	15 000.0	9.000	H	180.0	19.7
0.684 315	22.37	82.60	60.23	15 000.0	9.000	H	261.0	19.8

< Vertical >



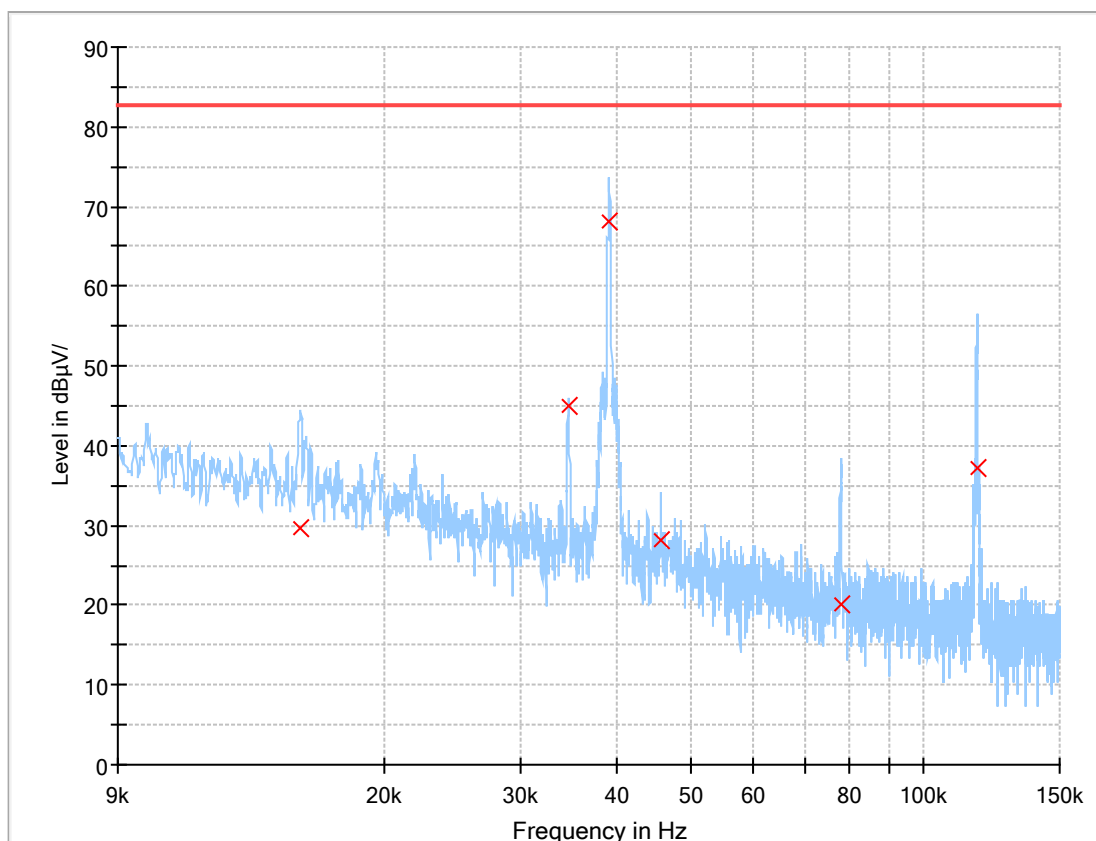
Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.158 955	36.99	82.60	45.61	15 000.0	9.000	V	5.0	19.8
0.176 865	34.14	82.60	48.46	15 000.0	9.000	V	40.0	19.8
0.218 655	39.11	82.60	43.49	15 000.0	9.000	V	21.0	19.7
0.308 205	36.84	82.60	45.76	15 000.0	9.000	V	0.0	19.7
0.397 755	33.88	82.60	48.72	15 000.0	9.000	V	59.0	19.7
0.544 020	24.08	82.60	58.52	15 000.0	9.000	V	5.0	19.7

- Dual Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

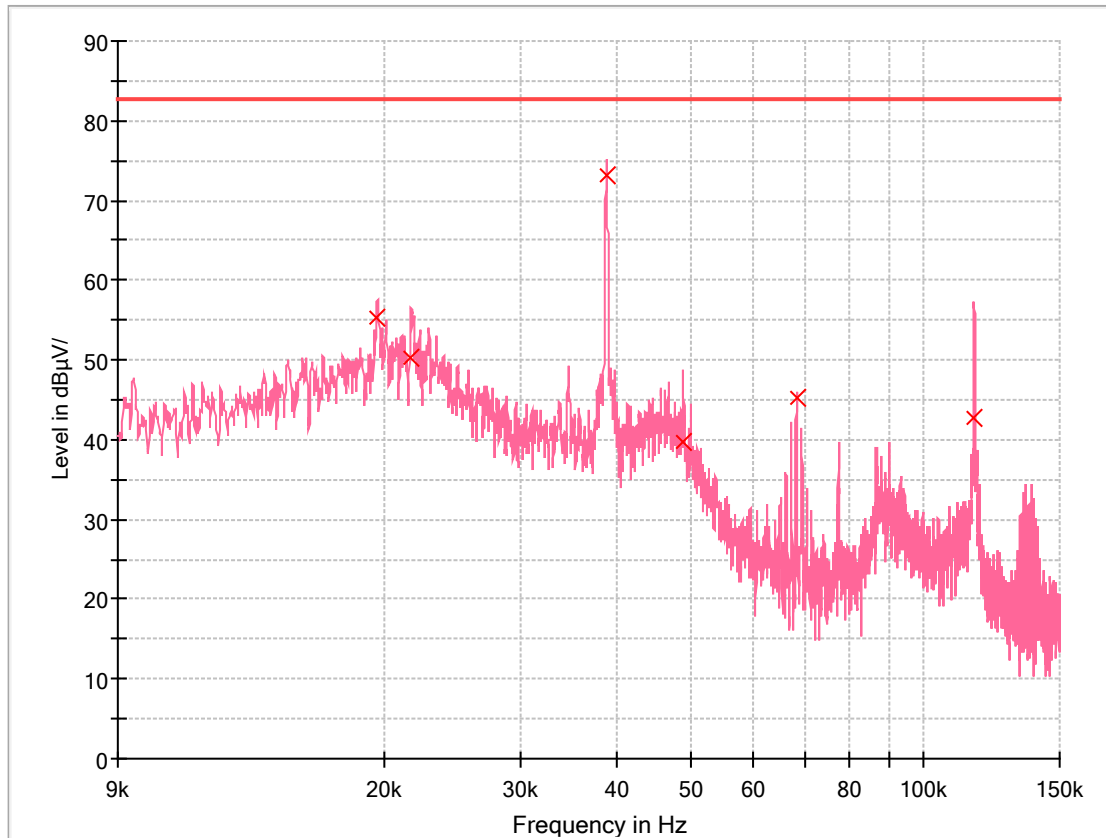
< Horizontal >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 556	29.63	82.60	52.97	15 000.0	0.200	H	211.0	19.5
0.034 549	44.95	82.60	37.65	15 000.0	0.200	H	0.0	19.7
0.039 033	68.20	82.60	14.40	15 000.0	0.200	H	0.0	19.8
0.045 561	28.21	82.60	54.39	15 000.0	0.200	H	0.0	19.8
0.078 175	20.19	82.60	62.41	15 000.0	0.200	H	136.0	19.8
0.117 161	37.12	82.60	45.48	15 000.0	0.200	H	0.0	19.8

< Vertical >

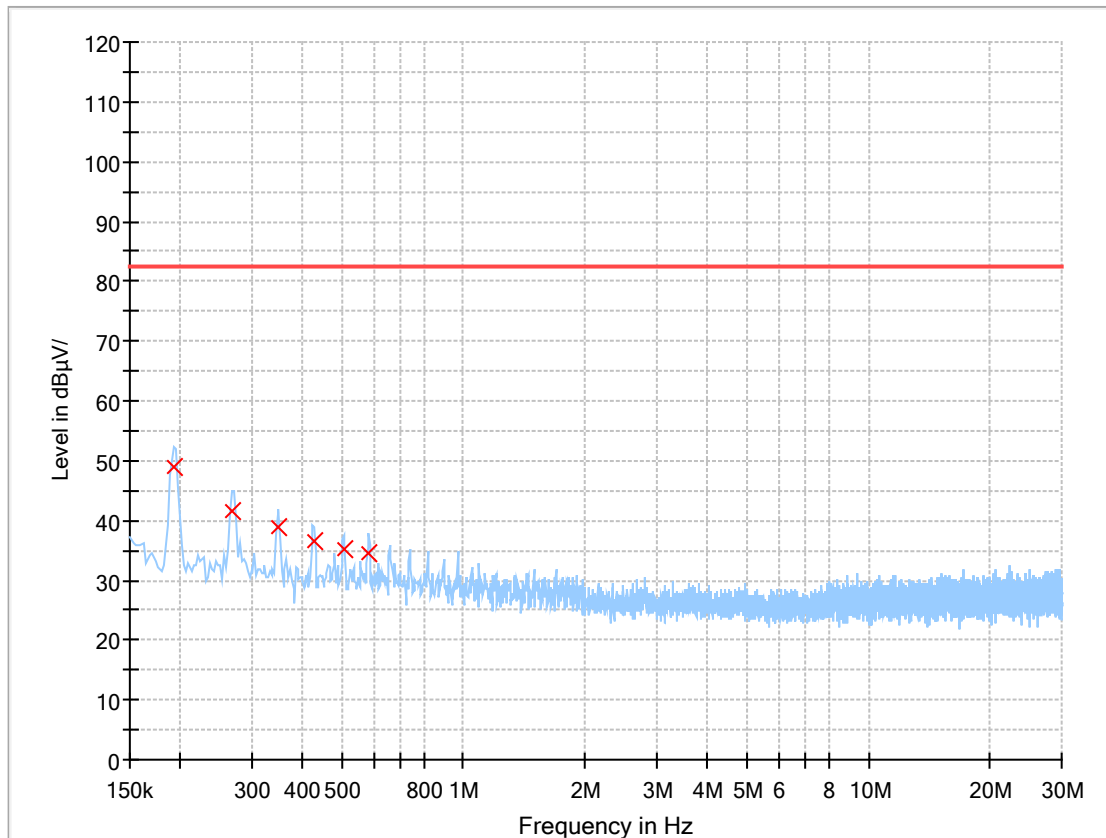


Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 533	55.26	82.60	27.34	15 000.0	0.200	V	0.0	19.7
0.021 605	50.27	82.60	32.33	15 000.0	0.200	V	211.0	19.7
0.038 723	73.21	82.60	9.39	15 000.0	0.200	V	54.0	19.8
0.048 720	39.66	82.60	42.94	15 000.0	0.200	V	0.0	19.8
0.068 319	45.21	82.60	37.39	15 000.0	0.200	V	286.0	19.8
0.116 273	42.75	82.60	39.85	15 000.0	0.200	V	286.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

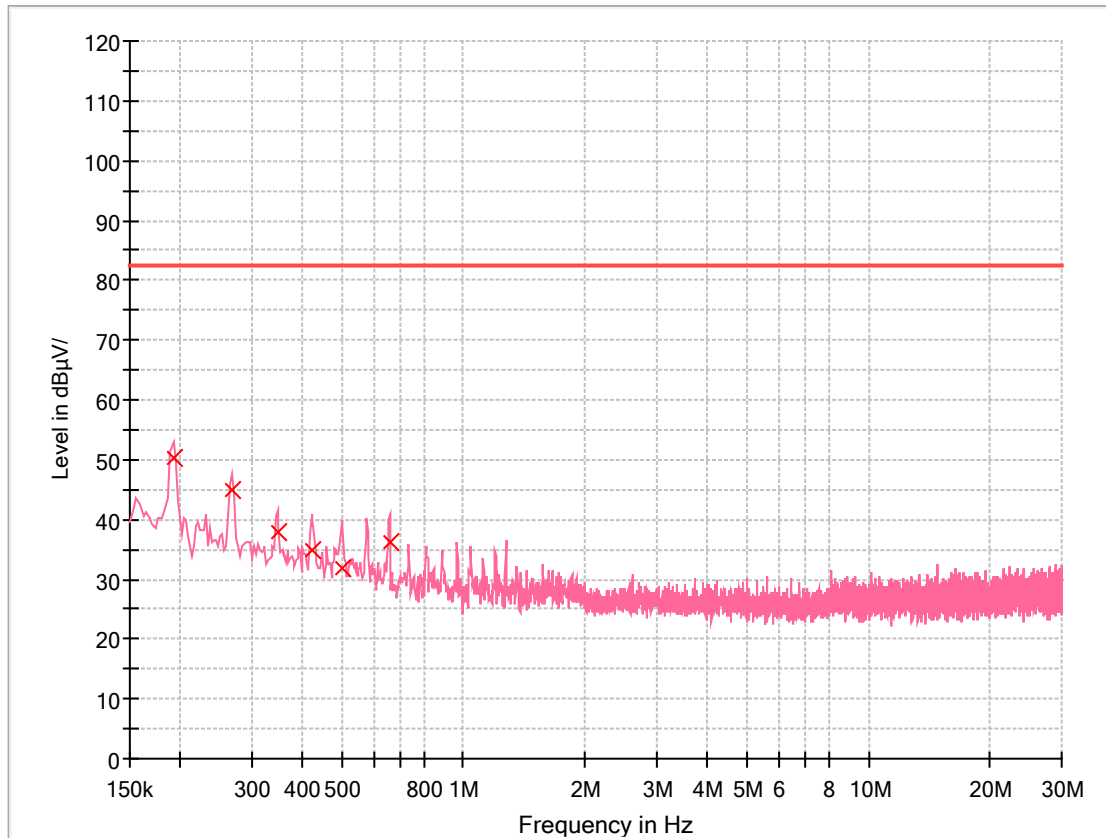
< Horizontal >



Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.191 790	48.84	82.60	33.76	15 000.0	9.000	H	301.0	19.7
0.269 400	41.48	82.60	41.12	15 000.0	9.000	H	101.0	19.7
0.349 995	38.90	82.60	43.70	15 000.0	9.000	H	81.0	19.7
0.427 605	36.39	82.60	46.21	15 000.0	9.000	H	261.0	19.7
0.505 215	35.26	82.60	47.34	15 000.0	9.000	H	261.0	19.7
0.582 825	34.63	82.60	47.97	15 000.0	9.000	H	301.0	19.7

< Vertical >



Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.191 790	50.25	82.60	32.35	15 000.0	9.000	V	0.0	19.7
0.269 400	44.90	82.60	37.70	15 000.0	9.000	V	0.0	19.7
0.347 010	37.96	82.60	44.64	15 000.0	9.000	V	0.0	19.7
0.421 635	34.92	82.60	47.68	15 000.0	9.000	V	143.0	19.7
0.499 245	31.92	82.60	50.68	15 000.0	9.000	V	123.0	19.7
0.657 450	36.25	82.60	46.35	15 000.0	9.000	V	0.0	19.8

Measurement Uncertainty (Horizontal) : 4.24 dB (The confidential level is about 95 %, $k = 2$)

Measurement Uncertainty (Vertical) : 4.24 dB (The confidential level is about 95 %, $k = 2$)

Note1 : • Margin = Limit – Average • Corr. = Antenna Factor + Cable loss

Note2 : This test has been conducted at 240 V~ which is the worst condition from operating voltages 208 V~ or 240 V~.

- End of Test Report -