FCC TEST REPORT

Job No. : GPWE2309000148EC

Applicant : LG Electronics USA, Inc.

Equipment Under Test (EUT) :

Product Name : HOUSEHOLD COOKTOP

Model Name : CBIH3613BE

FCC Authorization Type : Certification

Applied Standards : FCC Part 18

FCC ID : BEJQ50441HA

Date of Receipt : September 08, 2023

Date of Test : September 13, 2023 ~ September 19, 2023

Date of Issue : October 18, 2023

Test Results : Complied

Tested by : Allen Moon

Reviewed by : Kang Paul

This test report does not assure KOLAS accreditation.
1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.

Remarks :
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The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Contents

Revision History

Revision	Report number	Description
0	F690501-RF-EMC001693	Initial
1	F690501-RF-EMC001693_1	Rated power revise in Subclause 1.3, General Information
2		

1. General Information

1.1 Client Information

Applicant	LG Electronics USA, Inc.
Applicant Address	111 Sylvan Avenue North Building Englewood Cliffs, NJ 07632
Manufacturer	LG Electronics Inc.
Manufacturer Address	170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51553, Rep. of Korea

1.2 Test Laboratory

Name and Address	SGS Korea Co., Ltd.
- Giheung Laboratory	35, Giheungdanji-ro 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Gunpo Laboratory	4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, 15807, Republic of Korea
- Dongtan Laboratory	12, Dongtansandan 10-gil, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea
FCC Registration No.	KR0150
Phone	+ 82 31 548 0710
Fax	+ 82 31 548 0719
e-mail	paul.kang@sgs.com

1.3 General Information of E.U.T.

Classification	Specification
Product Name	HOUSEHOLD COOKTOP
Model Name	CBIH3613BE
Serial No.	-
Rated Power	240/ 208 V~, 60 ㎐, 38.4 A/ 36.2A, 9200 W / 7524 W
Test Voltage	AC 208 V, 60 ㎐(Boost Mode), AC 240 V, 60 ㎐(Boost Mode, EMS)
Induction Heating Operating Frequency	30-65 ㎑
Installed Wireless Module	10 ㎒
H/W Version	LCWB-001
S/W Version	V 1.0
Port	V 1.0
Components	AC IN
Function	A electric stove using induction coil

1.4 Operating Modes and Conditions

Operating mode	Operating Condition
1) 208 V Left Rear Cooking Zone Boost Operating	A state that a 208V power applied, a pot filled with water in boost is being heated in the center cooking zone and Wi-Fi is on.
2) 208 V Left Front Cooking Zone Boost Operating	A state that a 208V power applied, a pot filled with water in boost is being heated in the left front cooking zone and Wi-Fi is on.
3) 208 V Right Front Cooking Zone Boost Operating	A state that a 208V power applied, a pot filled with water in boost is being heated in the right front cooking zone and Wi-Fi is on.
4) 208 V Right Rear Cooking Zone Boost Operating	A state that a 208V power applied, a pot filled with water in boost is being heated in the right rear cooking zone and Wi-Fi is on.
5) 208 V Center Cooking Zone Operating	A state that a 208V power applied, a pot filled with water in boost is being heated in the center cooking zone and Wi-Fi is on.
6) 240 V Left Rear Cooking Zone Boost Operating	A state that a 240V power applied, a pot filled with water in boost is being heated in the center cooking zone and Wi-Fi is on.
7) 240 V Left Front Cooking Zone Boost Operating	A state that a 240V power applied, a pot filled with water in boost is being heated in the left front cooking zone and Wi-Fi is on.

8) 240 V Right Front Cooking Zone Boost Operating	A state that a 240V power applied, a pot filled with water in boost is being heated in the right front cooking zone and Wi-Fi is on.
9) 240 V Right Rear Cooking Zone Boost Operating	A state that a 240V power applied, a pot filled with water in boost is being heated in the right rear cooking zone and Wi-Fi is on.
10) 240 V Center Cooking Zone Operating	A state that a 240V power applied, a pot filled with water in boost is being heated in the center cooking zone and Wi-Fi is on.

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer	Note.
-	-	-	-	-

1.6 Cable List

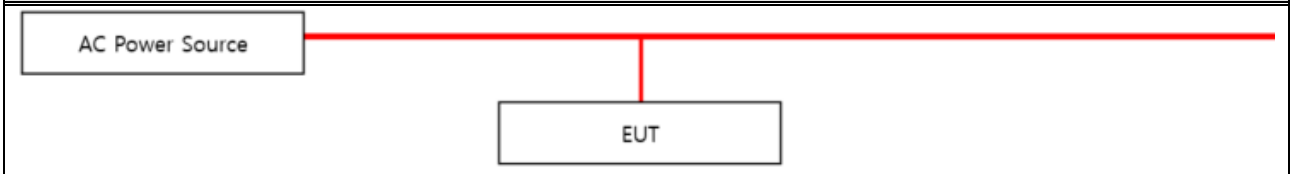
Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length (m)	Shield	
EUT	AC IN	AC Power Source	-	1.2	Unshielded	No

1.7 System Configurations

Description	Model	Serial No.	Manufacturer	Note
Display PCB	NA 30 IH	-	LG Electronics Inc.	-
Inverter 2B PCB	EAX69074304-A	-	LG Electronics Inc.	-
Inverter 4B PCB	EAX69069502-A	-	LG Electronics Inc.	-
Main PCB	EAX69069302-B	-	LG Electronics Inc.	-
Noise Filter PCB	EAX69069703-A	-	LG Electronics Inc.	3EA
Power PCB	EAX69069403-1.0	-	LG Electronics Inc.	-
Power SMPS	EAX69069403-1.0	-	LG Electronics Inc.	-
Servo	E1033H12B7YPAE6	-	Nidec	Vietnam
RF Module	LCWB-001	-	LG Electronics Inc.	Indonesia/ Contains FCC ID: BEJ-LCWB001

1.8 Test System Layout

Test System Layout



1.9 Modifications/Notes

- Wi-Fi On and tested due to manufacturer's request.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
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 MP-5	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305 MP-5	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 MP-5	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305 MP-5	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	0.15 ㎒ ~ 30 ㎒	9 ㎑	-
Radiated Emission	9 ㎑ ~ 150 ㎑	200 ㎐	10 m
	150 ㎑ ~ 30 ㎒	9 ㎑	10 m
	30 ㎒ ~ 1 ㎓	120 ㎑	10 m
	Above 1 ㎓	1 ㎒	3 m

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range(㎒)	Limits(dBμV)	
	Quasi-peak	Average
0.009 – 0.05	110	
0.05 – 0.15	90 - 80 Note	
0.15 – 0.5	66 - 56 Note	56 - 46
0.5 – 5	56	46
5 – 30	60	50

Note : Decrease with the logarithm of the frequency.

-Radiated Emission Limits

Frequency Range(㎒)	Limits(dBμV/m)
	Quasi-peak
0.009 – 30	84.23

* Test frequency range is from 0.009 ㎒ to 30 ㎒ since the highest internal operating frequency is 65 ㎑.

* Limit Calculations

Step1) Field Strength Limit (μV/m) = 1,500 (μV/m) = 63.5 (dBμV/m) at 30 m

Step2) 63.5 (dBμV/m) + (extrapolation factor) * log(30/10) = 84.23 (dBμV/m) at 10 m

Distance extrapolation factor = [FS(d2) – FS(d1)] / log10(d1/d2) where
- d1 and d2 are the measurement distance (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

Distance	Ant pol.	Frequency	Reading
3 m	H	0.044	104.0
5 m	H	0.044	94.36
10 m	H	0.044	80.05

3 m to 5 m	43.5
3 m to 10 m	45.8
5 m to 10 m	47.5

2.3 Conducted Disturbance

The initial preliminary exploratory scans were performed over the measuring frequency range(9 ㎑ to 30 ㎒) using a max hold mode incorporating a Peak detector and Average detector and using the EMI measuring software. The final test data was measured using a Quasi-Peak detector and Average detector.

Note. Measuring software
- Giheung Lab.: EMC32(V10.40.10) from R&S
- Gunpo Lab.: EMC32(V10.60.20) from R&S
- Dongtan Lab.: EMC32(V10.40.00) from R&S

2.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESW8	R&S	101318	2024.01.13
PULSE LIMITER	ESH3-Z2	R&S	100850	2024.04.14
4 Path V-LISN	NNLK 8129	SCHWARZBECK	8129-468	2024.04.17
EMD-CE-01	W21.09	-	-	2024.01.13

2.3.2 Test Site

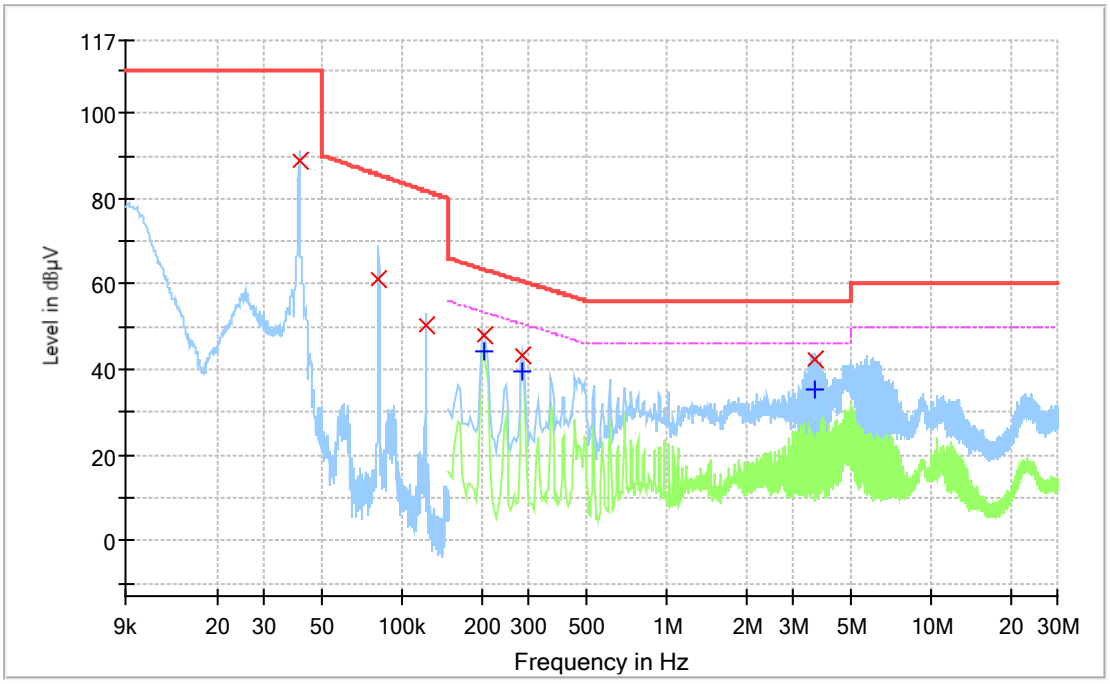
Shield Room in Dongtan Laboratory

2.3.3 Environment Conditions

Temperature	(Minimum 24.0, Maximum 24.8) ℃
Humidity	(Minimum 35.0, Maximum 37.0) % R.H.
Atmospheric Pressure	(Minimum 101.0, Maximum 101.0) ㎪
Test Date	September 19, 2023

2.3.4 Test Results

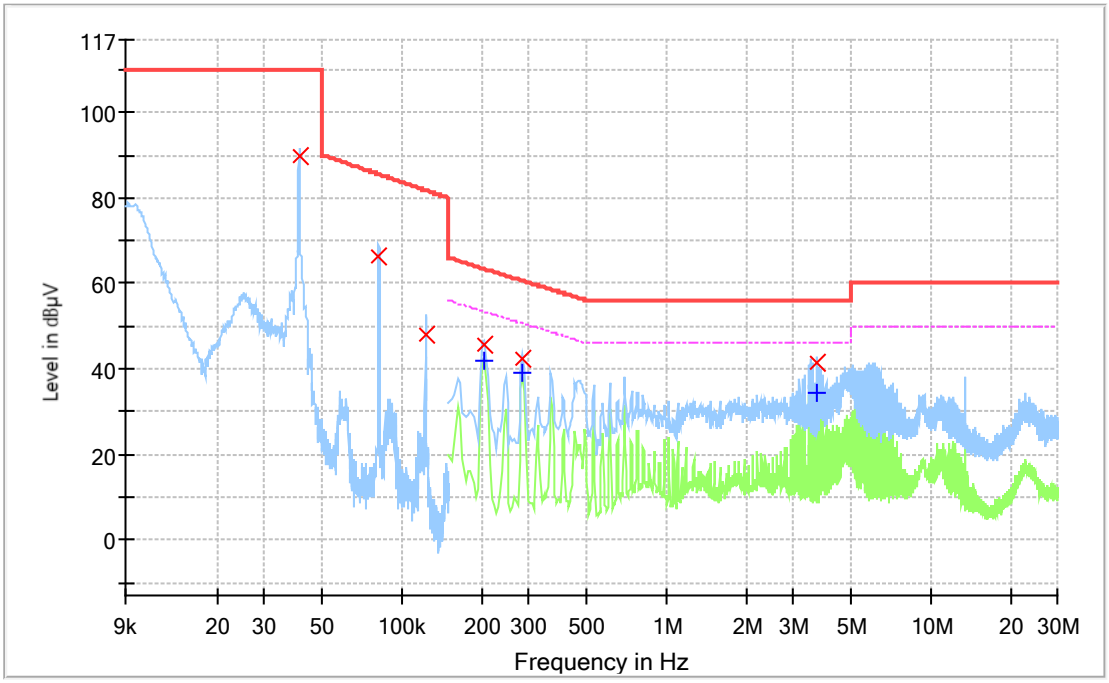
Live Line_1) 208 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.041	88.82	---	110.00	21.18	15 000.0	0.200	L1	FLO	10.1
0.081	60.99	---	85.55	24.57	15 000.0	0.200	L1	FLO	9.9
0.122	50.43	---	81.85	31.42	15 000.0	0.200	L1	FLO	9.9
0.206	---	44.27	53.37	9.09	15 000.0	9.000	L1	FLO	9.9
0.206	48.14	---	63.37	15.22	15 000.0	9.000	L1	FLO	9.9
0.286	---	39.56	50.64	11.08	15 000.0	9.000	L1	FLO	9.9
0.286	43.44	---	60.64	17.20	15 000.0	9.000	L1	FLO	9.9
3.634	---	35.27	46.00	10.73	15 000.0	9.000	L1	FLO	10.0
3.634	42.42	---	56.00	13.58	15 000.0	9.000	L1	FLO	10.0

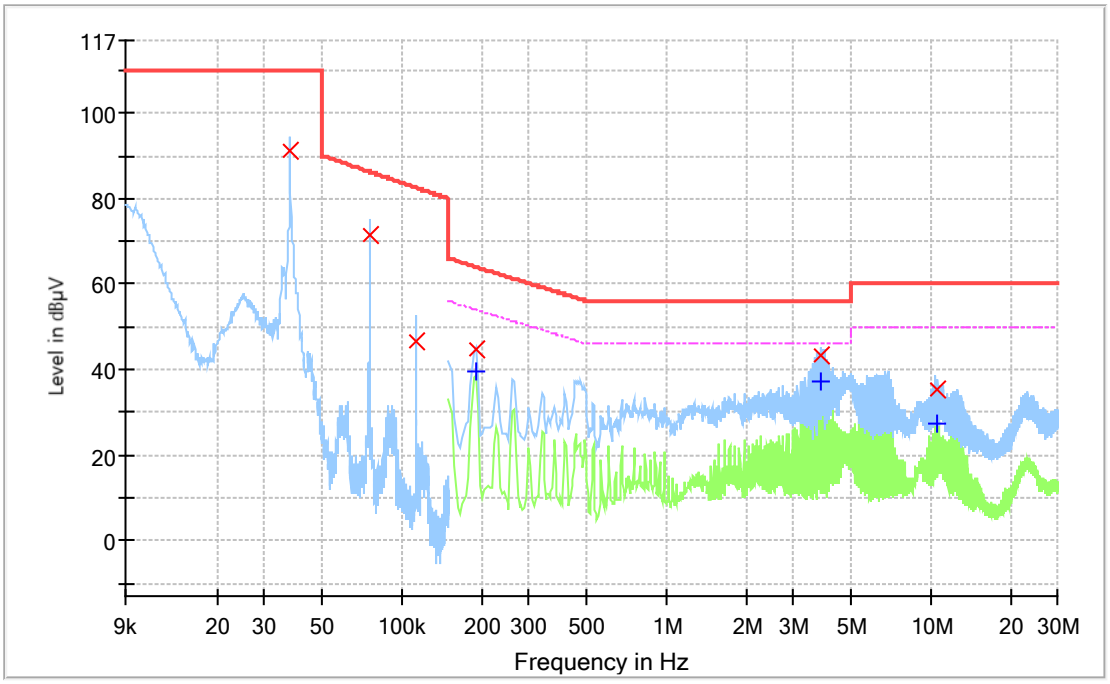
Neutral Line_1) 208 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.041	89.72	---	110.00	20.28	15 000.0	0.200	N	FLO	10.1
0.082	66.50	---	85.53	19.02	15 000.0	0.200	N	FLO	9.9
0.122	47.86	---	81.85	33.99	15 000.0	0.200	N	FLO	9.9
0.206	---	41.92	53.37	11.44	15 000.0	9.000	N	FLO	9.9
0.206	45.51	---	63.37	17.86	15 000.0	9.000	N	FLO	9.9
0.286	---	38.96	50.64	11.68	15 000.0	9.000	N	FLO	9.9
0.286	42.54	---	60.64	18.10	15 000.0	9.000	N	FLO	9.9
3.678	---	34.35	46.00	11.65	15 000.0	9.000	N	FLO	10.0
3.678	41.42	---	56.00	14.58	15 000.0	9.000	N	FLO	10.0

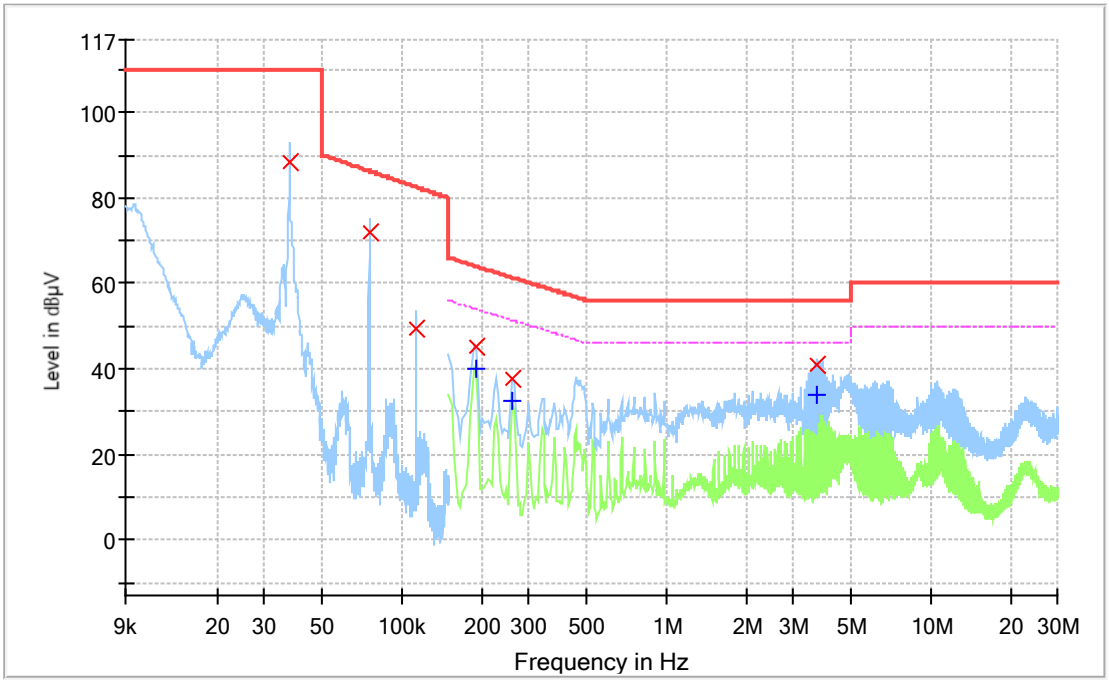
Live Line_2) 208 V Left Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	91.11	---	110.00	18.89	15 000.0	0.200	L1	FLO	10.1
0.075	71.66	---	86.27	14.61	15 000.0	0.200	L1	FLO	9.9
0.113	46.63	---	82.58	35.95	15 000.0	0.200	L1	FLO	9.9
0.190	---	39.34	54.04	14.70	15 000.0	9.000	L1	FLO	9.9
0.190	44.71	---	64.04	19.33	15 000.0	9.000	L1	FLO	9.9
3.810	---	37.15	46.00	8.86	15 000.0	9.000	L1	FLO	10.0
3.810	43.16	---	56.00	12.84	15 000.0	9.000	L1	FLO	10.0
10.554	---	27.58	50.00	22.42	15 000.0	9.000	L1	FLO	10.2
10.554	35.37	---	60.00	24.63	15 000.0	9.000	L1	FLO	10.2

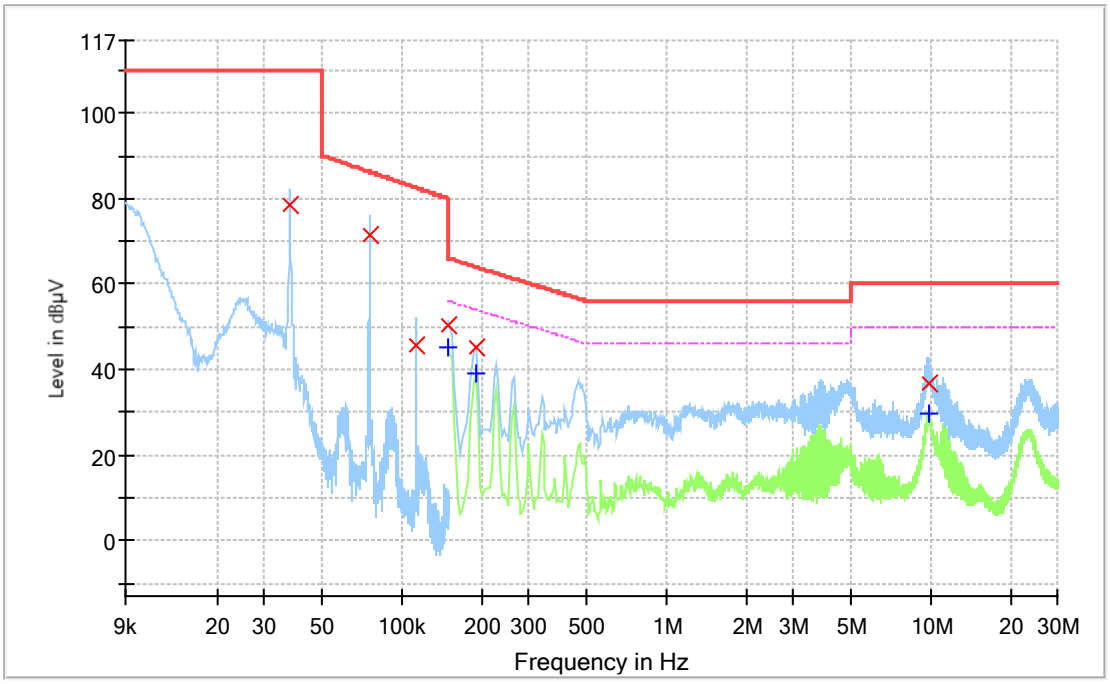
Neutral Line_2) 208 V Left Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	88.34	---	110.00	21.66	15 000.0	0.200	N	FLO	10.1
0.075	72.07	---	86.28	14.21	15 000.0	0.200	N	FLO	9.9
0.113	49.29	---	82.59	33.30	15 000.0	0.200	N	FLO	9.9
0.190	---	40.24	54.04	13.79	15 000.0	9.000	N	FLO	9.9
0.190	45.36	---	64.04	18.68	15 000.0	9.000	N	FLO	9.9
0.262	---	32.31	51.37	19.06	15 000.0	9.000	N	FLO	9.9
0.262	37.48	---	61.37	23.89	15 000.0	9.000	N	FLO	9.9
3.690	---	34.10	46.00	11.90	15 000.0	9.000	N	FLO	10.0
3.690	40.99	---	56.00	15.01	15 000.0	9.000	N	FLO	10.0

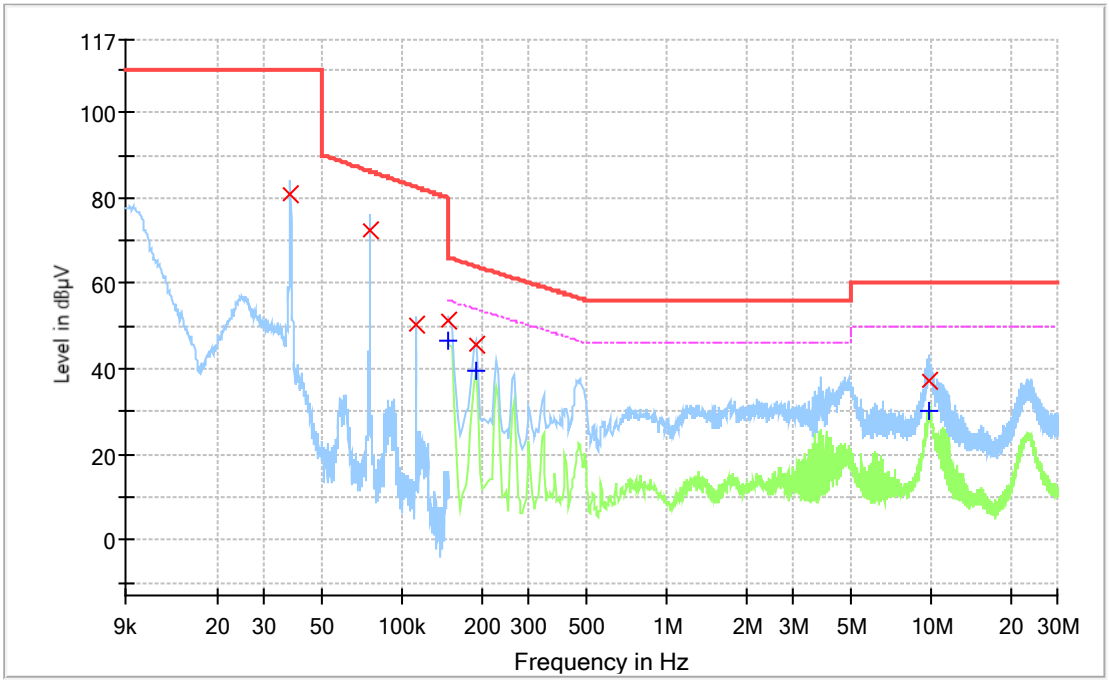
Live Line_3) 208 V Right Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	78.35	---	110.00	31.66	15 000.0	0.200	L1	FLO	10.1
0.075	71.27	---	86.28	15.01	15 000.0	0.200	L1	FLO	9.9
0.113	45.78	---	82.59	36.81	15 000.0	0.200	L1	FLO	9.9
0.150	---	45.27	56.00	10.73	15 000.0	9.000	L1	FLO	9.9
0.150	50.28	---	66.00	15.72	15 000.0	9.000	L1	FLO	9.9
0.190	---	39.06	54.04	14.98	15 000.0	9.000	L1	FLO	9.9
0.190	45.04	---	64.04	19.00	15 000.0	9.000	L1	FLO	9.9
9.822	---	29.86	50.00	20.14	15 000.0	9.000	L1	FLO	10.2
9.822	36.94	---	60.00	23.06	15 000.0	9.000	L1	FLO	10.2

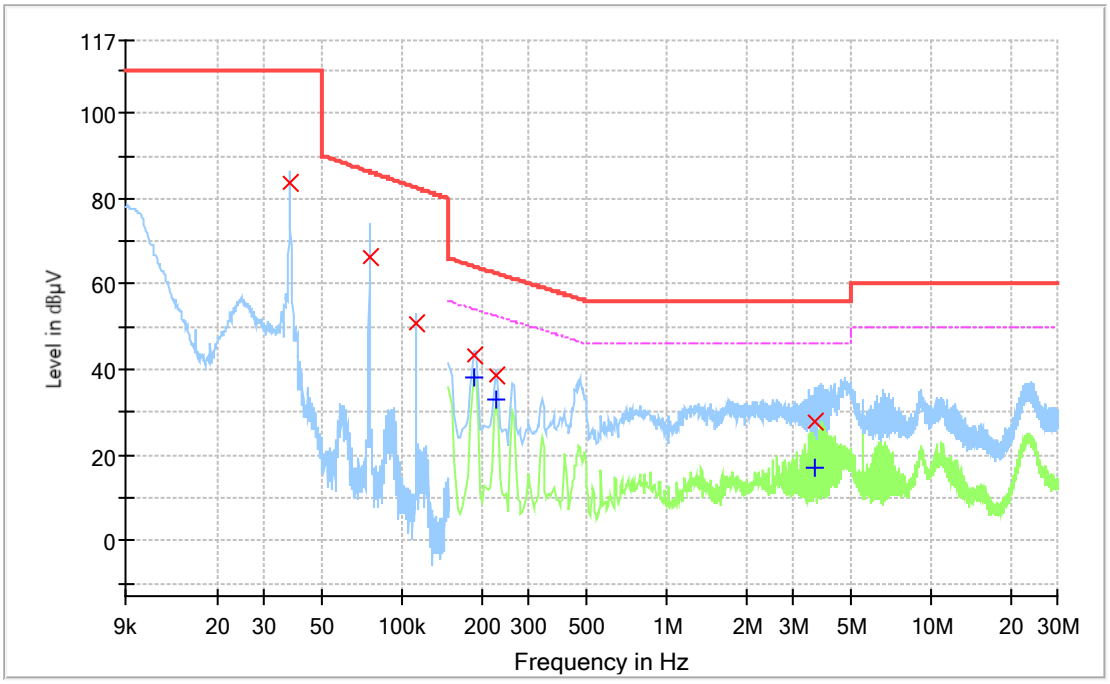
Neutral Line_3) 208 V Right Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	80.75	---	110.00	29.25	15 000.0	0.200	N	FLO	10.1
0.075	72.34	---	86.26	13.93	15 000.0	0.200	N	FLO	9.9
0.113	50.21	---	82.55	32.34	15 000.0	0.200	N	FLO	9.9
0.150	---	46.47	56.00	9.53	15 000.0	9.000	N	FLO	9.9
0.150	51.42	---	66.00	14.58	15 000.0	9.000	N	FLO	9.9
0.190	---	39.55	54.04	14.49	15 000.0	9.000	N	FLO	9.9
0.190	45.59	---	64.04	18.45	15 000.0	9.000	N	FLO	9.9
9.818	---	30.31	50.00	19.69	15 000.0	9.000	N	FLO	10.2
9.818	37.27	---	60.00	22.73	15 000.0	9.000	N	FLO	10.2

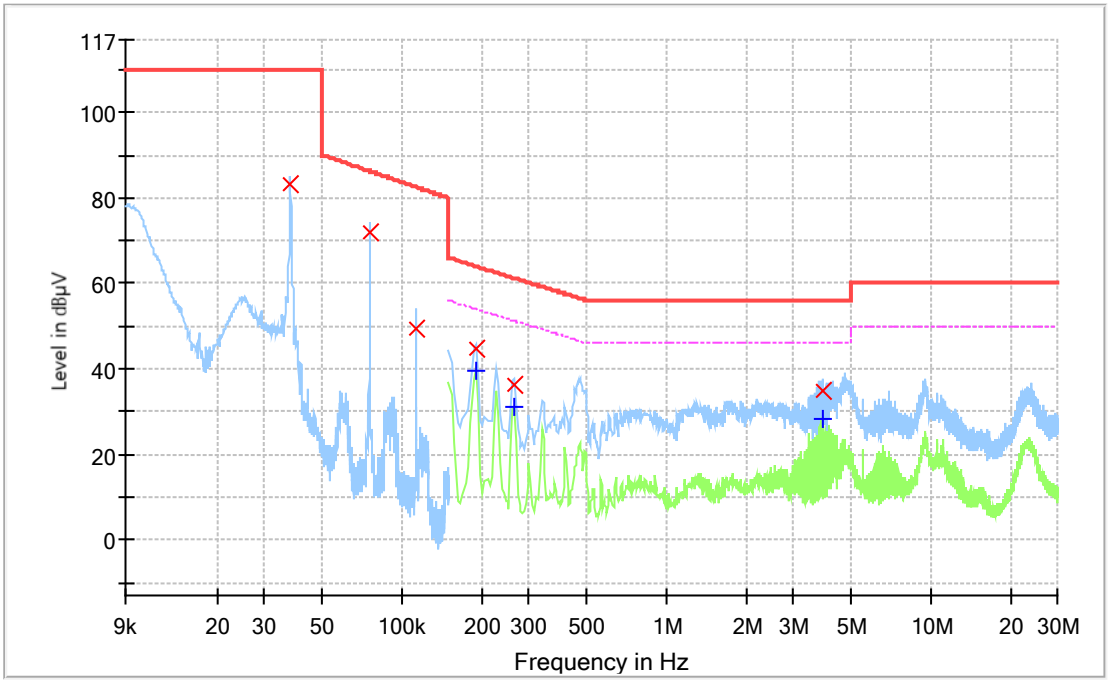
Live Line_4) 208 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	83.63	---	110.00	26.37	15 000.0	0.200	L1	FLO	10.1
0.075	66.38	---	86.29	19.91	15 000.0	0.200	L1	FLO	9.9
0.113	50.88	---	82.58	31.71	15 000.0	0.200	L1	FLO	9.9
0.186	---	38.16	54.21	16.06	15 000.0	9.000	L1	FLO	9.9
0.186	43.37	---	64.21	20.85	15 000.0	9.000	L1	FLO	9.9
0.226	---	32.84	52.60	19.75	15 000.0	9.000	L1	FLO	9.9
0.226	38.44	---	62.60	24.15	15 000.0	9.000	L1	FLO	9.9
3.650	---	17.09	46.00	28.91	15 000.0	9.000	L1	FLO	10.0
3.650	27.60	---	56.00	28.40	15 000.0	9.000	L1	FLO	10.0

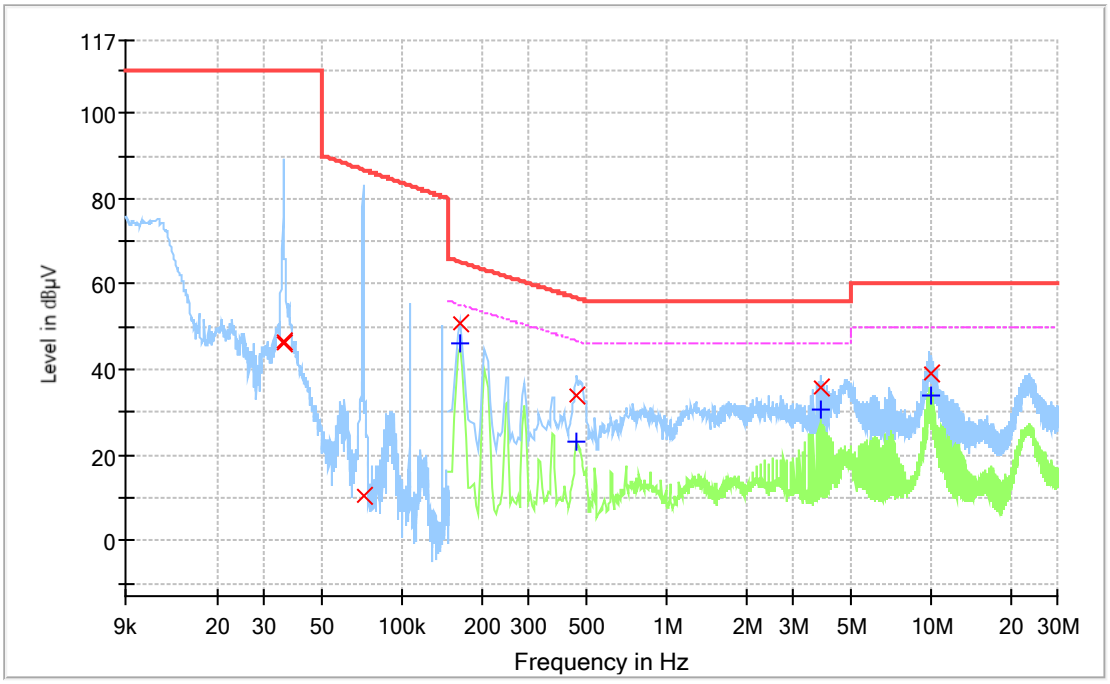
Neutral Line_4) 208 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	83.09	---	110.00	26.91	15 000.0	0.200	N	FLO	10.1
0.075	71.87	---	86.25	14.38	15 000.0	0.200	N	FLO	9.9
0.113	49.35	---	82.57	33.22	15 000.0	0.200	N	FLO	9.9
0.190	---	39.46	54.04	14.58	15 000.0	9.000	N	FLO	9.9
0.190	44.68	---	64.04	19.35	15 000.0	9.000	N	FLO	9.9
0.266	---	30.94	51.24	20.30	15 000.0	9.000	N	FLO	9.9
0.266	36.20	---	61.24	25.04	15 000.0	9.000	N	FLO	9.9
3.926	---	28.29	46.00	17.71	15 000.0	9.000	N	FLO	10.0
3.926	34.86	---	56.00	21.14	15 000.0	9.000	N	FLO	10.0

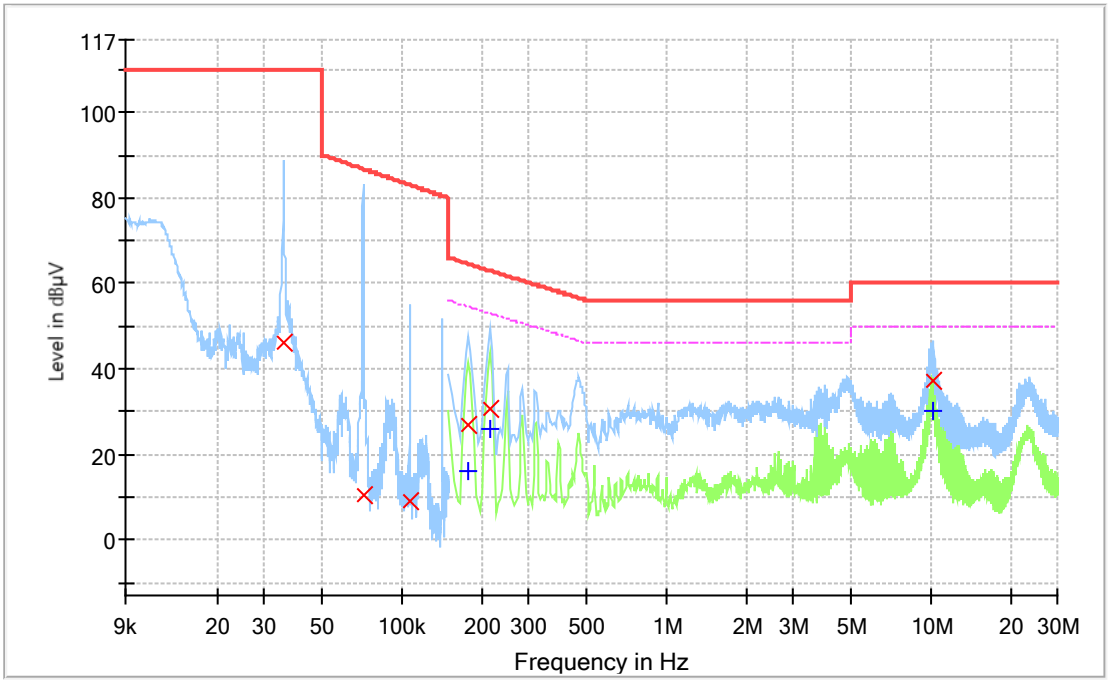
Live Line_5) 208 V Center Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.036	46.41	---	110.00	63.59	15 000.0	0.200	L1	FLO	10.2
0.036	46.16	---	110.00	63.84	15 000.0	0.200	L1	FLO	10.2
0.071	10.45	---	86.78	76.33	15 000.0	0.200	L1	FLO	9.9
0.166	---	45.92	55.16	9.23	15 000.0	9.000	L1	FLO	9.9
0.166	50.68	---	65.16	14.47	15 000.0	9.000	L1	FLO	9.9
0.458	---	23.01	46.73	23.71	15 000.0	9.000	L1	FLO	9.9
0.458	33.87	---	56.73	22.86	15 000.0	9.000	L1	FLO	9.9
3.846	---	30.60	46.00	15.40	15 000.0	9.000	L1	FLO	10.0
3.846	35.95	---	56.00	20.05	15 000.0	9.000	L1	FLO	10.0
10.010	---	33.78	50.00	16.22	15 000.0	9.000	L1	FLO	10.2
10.010	39.09	---	60.00	20.91	15 000.0	9.000	L1	FLO	10.2

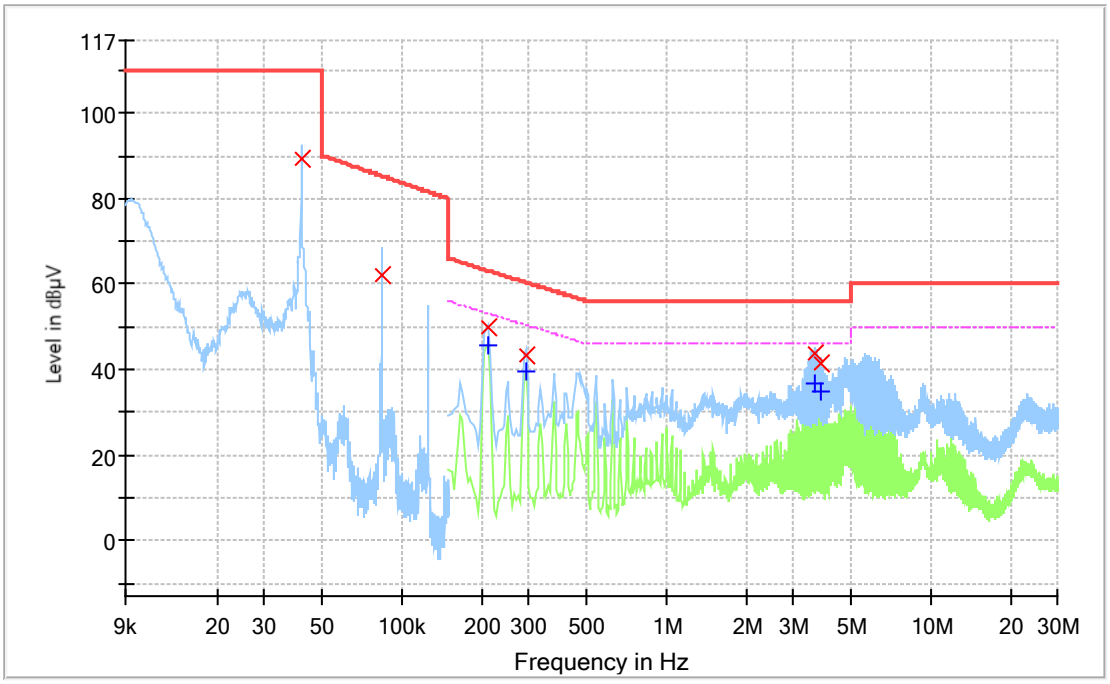
Neutral Line_5) 208 V Center Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.036	46.05	---	110.00	63.95	15 000.0	0.200	N	FLO	10.2
0.071	10.54	---	86.78	76.24	15 000.0	0.200	N	FLO	9.9
0.107	9.18	---	83.09	73.91	15 000.0	0.200	N	FLO	9.9
0.178	---	16.16	54.58	38.42	15 000.0	9.000	N	FLO	9.9
0.178	26.69	---	64.58	37.88	15 000.0	9.000	N	FLO	9.9
0.214	---	25.98	53.05	27.07	15 000.0	9.000	N	FLO	9.9
0.214	30.52	---	63.05	32.52	15 000.0	9.000	N	FLO	9.9
10.094	---	30.13	50.00	19.87	15 000.0	9.000	N	FLO	10.3
10.094	37.08	---	60.00	22.92	15 000.0	9.000	N	FLO	10.3

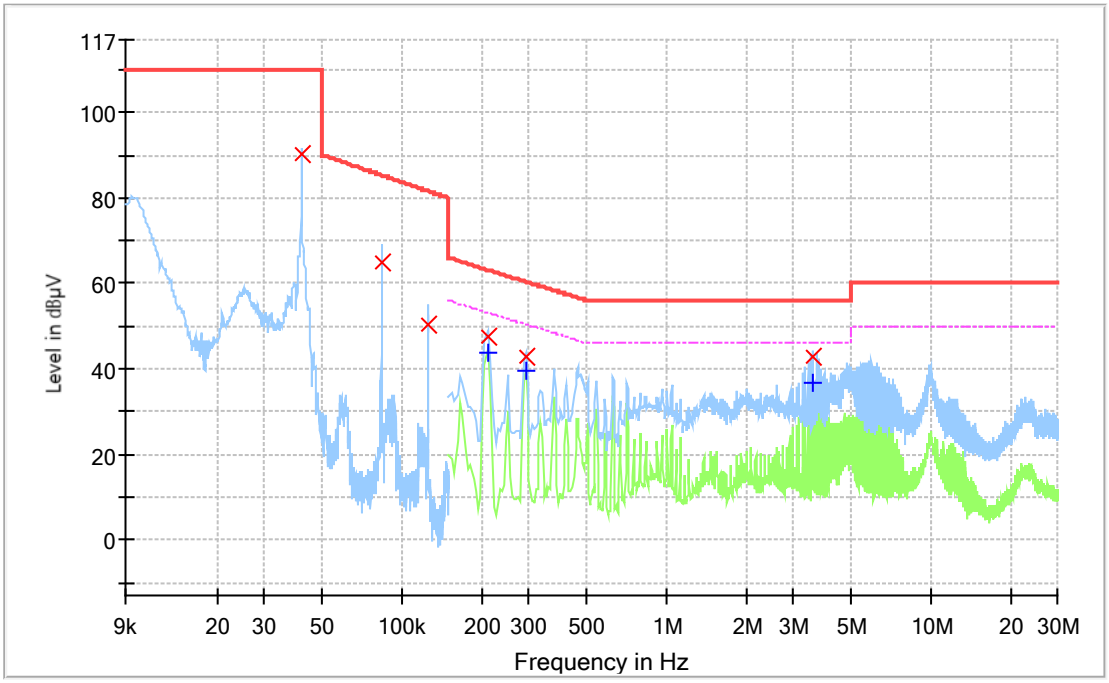
Live Line_6) 240 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.042	89.31	---	110.00	20.69	15 000.0	0.200	L1	FLO	10.1
0.083	61.93	---	85.34	23.41	15 000.0	0.200	L1	FLO	9.9
0.210	---	45.90	53.21	7.31	15 000.0	9.000	L1	FLO	9.9
0.210	49.80	---	63.21	13.41	15 000.0	9.000	L1	FLO	9.9
0.294	---	39.63	50.41	10.78	15 000.0	9.000	L1	FLO	9.9
0.294	43.45	---	60.41	16.96	15 000.0	9.000	L1	FLO	9.9
3.634	---	36.79	46.00	9.21	15 000.0	9.000	L1	FLO	10.0
3.634	43.82	---	56.00	12.18	15 000.0	9.000	L1	FLO	10.0
3.802	---	34.70	46.00	11.30	15 000.0	9.000	L1	FLO	10.0
3.802	41.29	---	56.00	14.71	15 000.0	9.000	L1	FLO	10.0

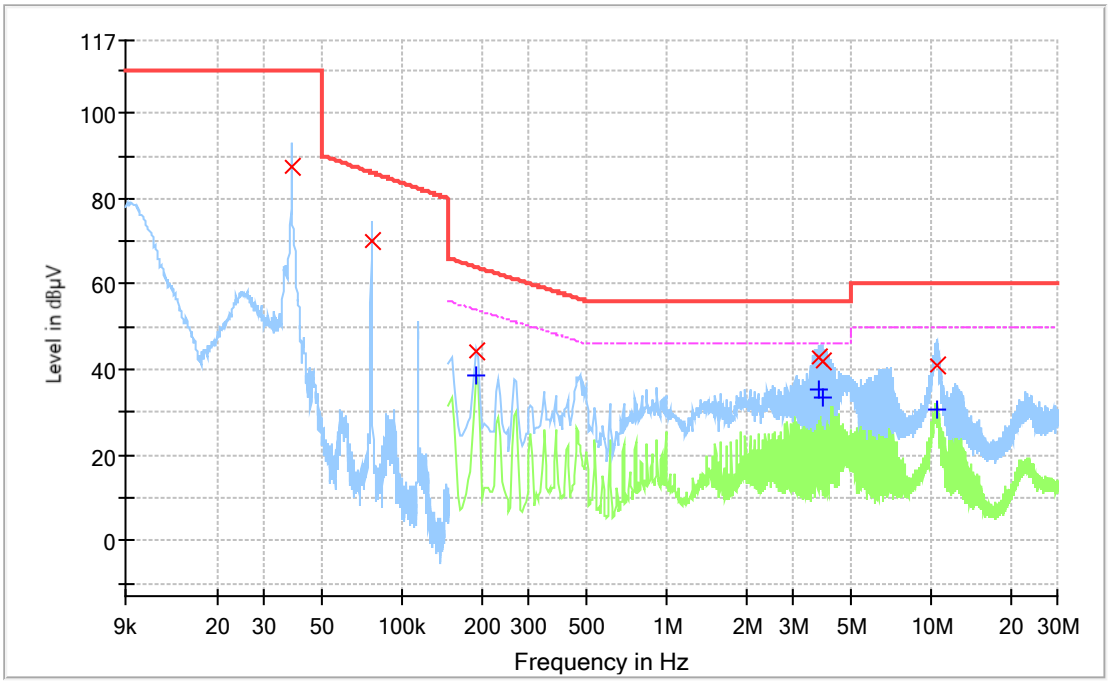
Neutral Line_6) 240 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.042	90.47	---	110.00	19.53	15 000.0	0.200	N	FLO	10.1
0.083	64.76	---	85.33	20.57	15 000.0	0.200	N	FLO	9.9
0.125	50.38	---	81.64	31.26	15 000.0	0.200	N	FLO	9.9
0.210	---	43.93	53.21	9.28	15 000.0	9.000	N	FLO	9.9
0.210	47.62	---	63.21	15.59	15 000.0	9.000	N	FLO	9.9
0.294	---	39.42	50.41	10.99	15 000.0	9.000	N	FLO	9.9
0.294	42.97	---	60.41	17.44	15 000.0	9.000	N	FLO	9.9
3.594	---	36.62	46.00	9.38	15 000.0	9.000	N	FLO	10.0
3.594	42.89	---	56.00	13.11	15 000.0	9.000	N	FLO	10.0

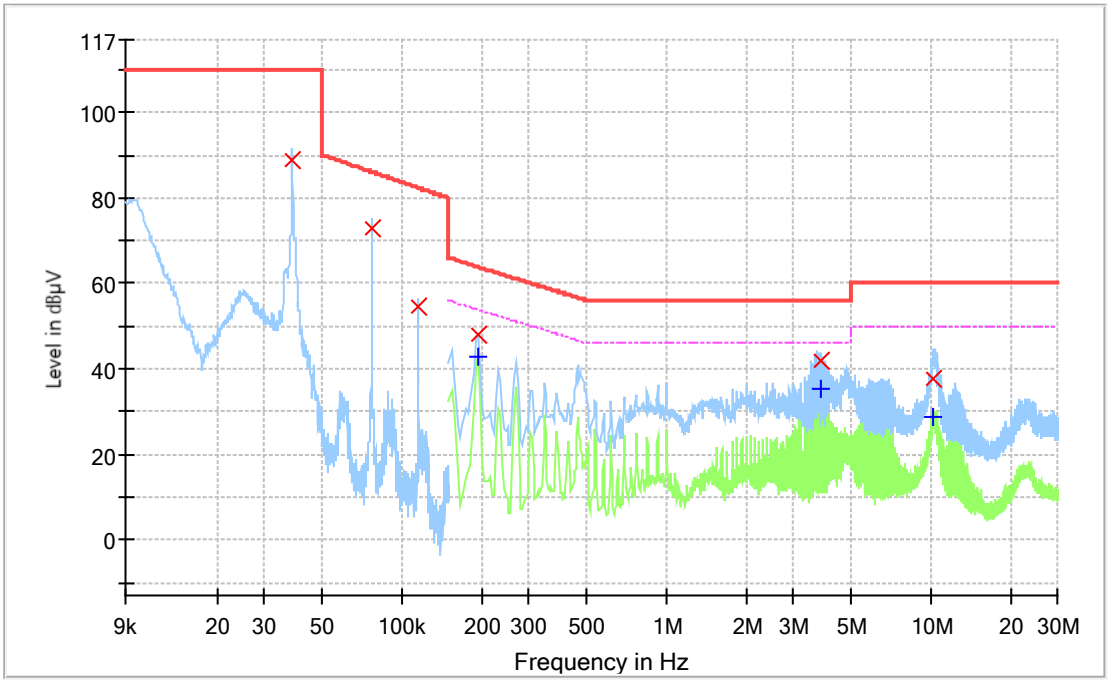
Live Line_7) 240 V Left Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	87.55	---	110.00	22.45	15 000.0	0.200	L1	FLO	10.1
0.077	70.03	---	86.13	16.10	15 000.0	0.200	L1	FLO	9.9
0.190	---	38.69	54.04	15.34	15 000.0	9.000	L1	FLO	9.9
0.190	44.26	---	64.04	19.78	15 000.0	9.000	L1	FLO	9.9
3.790	---	35.13	46.00	10.87	15 000.0	9.000	L1	FLO	10.0
3.790	43.08	---	56.00	12.92	15 000.0	9.000	L1	FLO	10.0
3.866	---	33.37	46.00	12.63	15 000.0	9.000	L1	FLO	10.0
3.866	42.14	---	56.00	13.86	15 000.0	9.000	L1	FLO	10.0
10.506	---	30.55	50.00	19.45	15 000.0	9.000	L1	FLO	10.2
10.506	41.17	---	60.00	18.83	15 000.0	9.000	L1	FLO	10.2

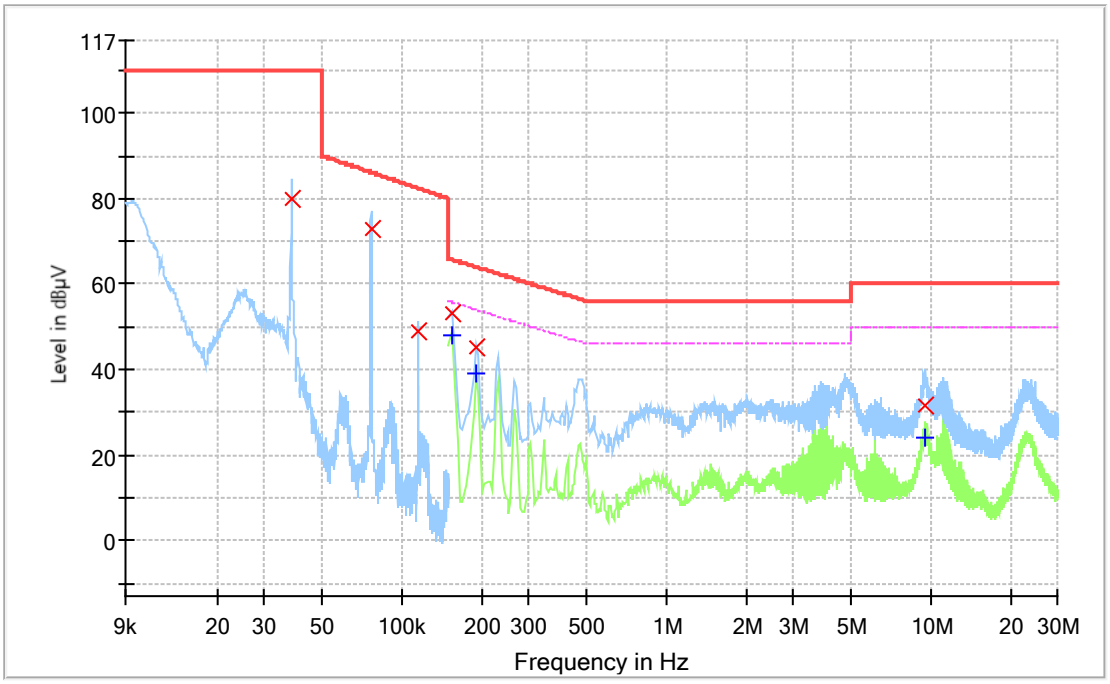
Neutral Line_7) 240 V Left Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	88.97	---	110.00	21.03	15 000.0	0.200	N	FLO	10.1
0.077	72.88	---	86.07	13.19	15 000.0	0.200	N	FLO	9.9
0.115	54.69	---	82.38	27.69	15 000.0	0.200	N	FLO	9.9
0.194	---	42.68	53.86	11.18	15 000.0	9.000	N	FLO	9.9
0.194	47.82	---	63.86	16.04	15 000.0	9.000	N	FLO	9.9
3.846	---	35.42	46.00	10.58	15 000.0	9.000	N	FLO	10.0
3.846	41.83	---	56.00	14.17	15 000.0	9.000	N	FLO	10.0
10.238	---	28.82	50.00	21.18	15 000.0	9.000	N	FLO	10.3
10.238	37.62	---	60.00	22.38	15 000.0	9.000	N	FLO	10.3

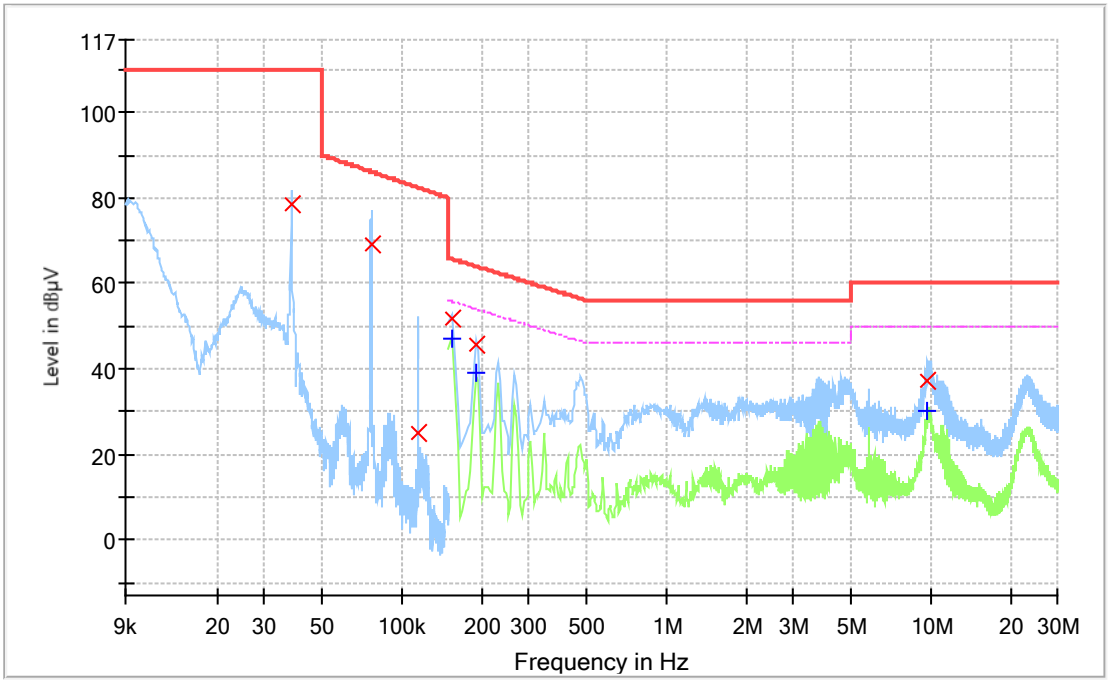
Live Line_8) 240 V Right Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	79.88	---	110.00	30.12	15 000.0	0.200	N	FLO	10.1
0.076	72.99	---	86.16	13.17	15 000.0	0.200	N	FLO	9.9
0.115	48.86	---	82.44	33.58	15 000.0	0.200	N	FLO	9.9
0.154	53.14	---	65.78	12.64	15 000.0	9.000	N	FLO	9.9
0.154	---	48.23	55.78	7.55	15 000.0	9.000	N	FLO	9.9
0.190	45.25	---	64.04	18.79	15 000.0	9.000	N	FLO	9.9
0.190	---	38.86	54.04	15.18	15 000.0	9.000	N	FLO	9.9
9.422	31.44	---	60.00	28.56	15 000.0	9.000	N	FLO	10.2
9.422	---	24.10	50.00	25.90	15 000.0	9.000	N	FLO	10.2

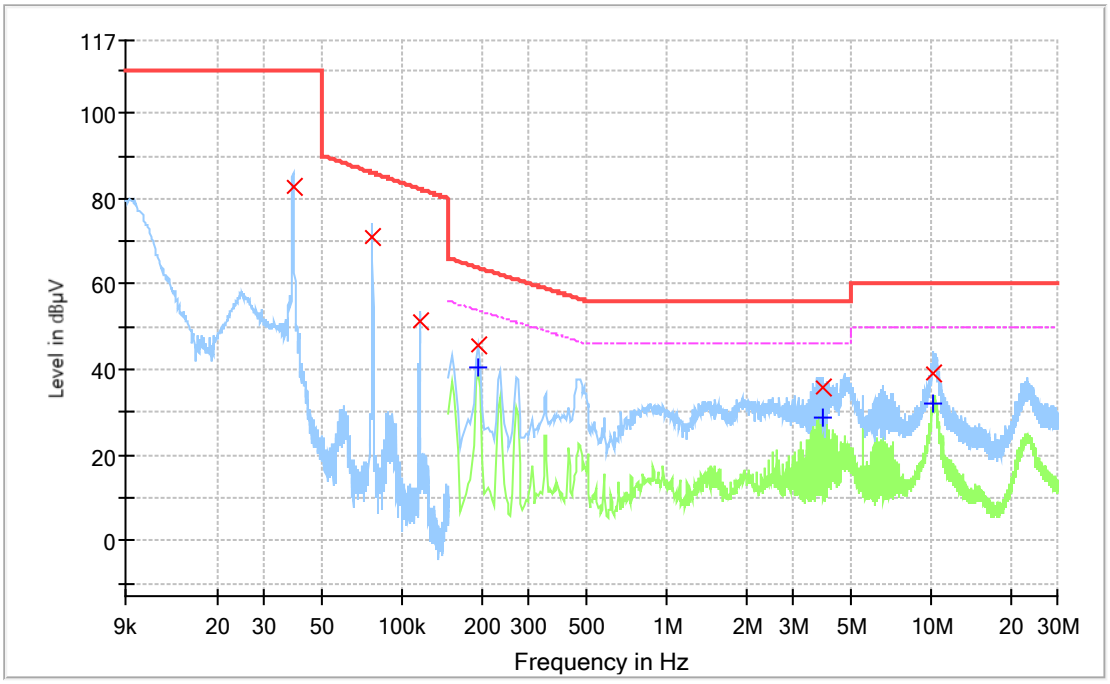
Neutral Line_8) 240 V Right Front Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	78.50	---	110.00	31.50	15 000.0	0.200	L1	FLO	10.1
0.076	69.24	---	86.15	16.90	15 000.0	0.200	L1	FLO	9.9
0.114	24.88	---	82.47	57.59	15 000.0	0.200	L1	FLO	9.9
0.154	51.90	---	65.78	13.88	15 000.0	9.000	L1	FLO	9.9
0.154	---	46.93	55.78	8.85	15 000.0	9.000	L1	FLO	9.9
0.190	45.60	---	64.04	18.43	15 000.0	9.000	L1	FLO	9.9
0.190	---	39.32	54.04	14.72	15 000.0	9.000	L1	FLO	9.9
9.734	37.00	---	60.00	23.00	15 000.0	9.000	L1	FLO	10.2
9.734	---	30.31	50.00	19.69	15 000.0	9.000	L1	FLO	10.2

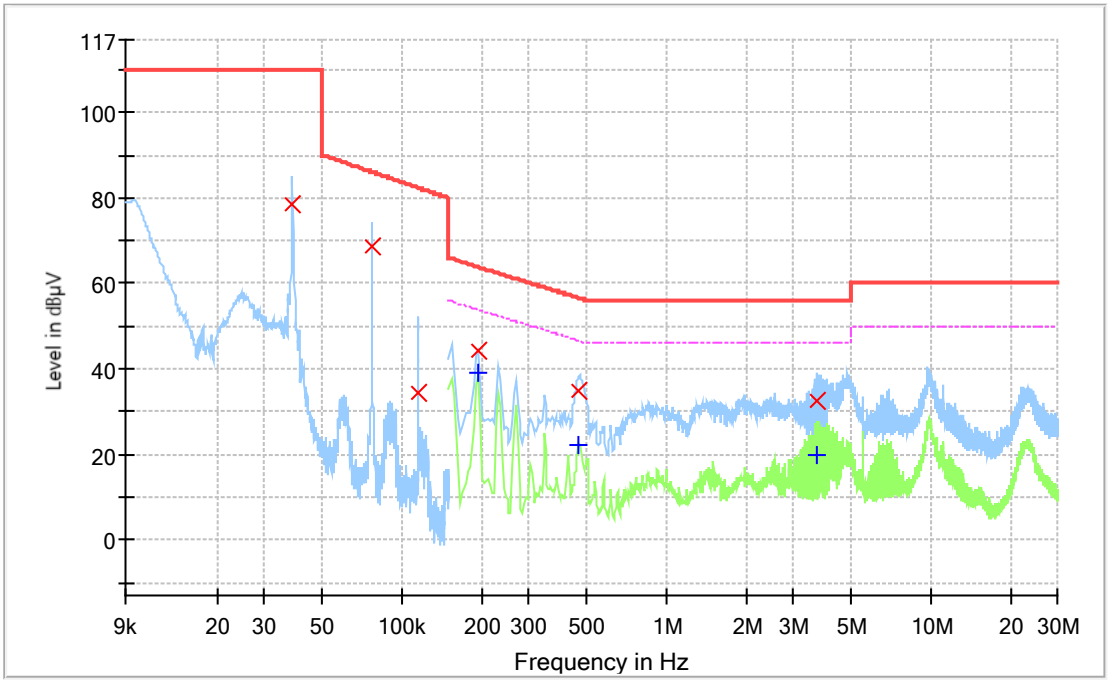
Live Line_9) 240 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.039	82.93	---	110.00	27.07	15 000.0	0.200	L1	FLO	10.1
0.077	71.03	---	86.03	15.00	15 000.0	0.200	L1	FLO	9.9
0.116	51.20	---	82.34	31.14	15 000.0	0.200	L1	FLO	9.9
0.194	---	40.40	53.86	13.46	15 000.0	9.000	L1	FLO	9.9
0.194	45.67	---	63.86	18.19	15 000.0	9.000	L1	FLO	9.9
3.870	---	28.67	46.00	17.33	15 000.0	9.000	L1	FLO	10.0
3.870	35.74	---	56.00	20.26	15 000.0	9.000	L1	FLO	10.0
10.238	---	32.16	50.00	17.84	15 000.0	9.000	L1	FLO	10.2
10.238	39.14	---	60.00	20.86	15 000.0	9.000	L1	FLO	10.2

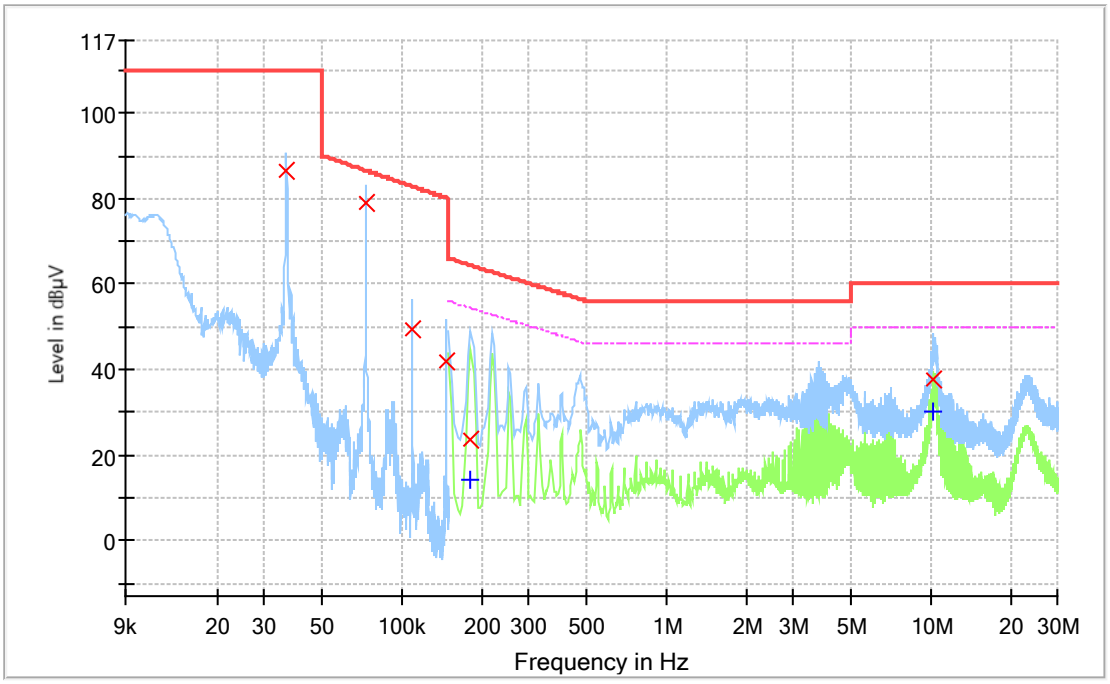
Neutral Line_9) 240 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.038	78.61	---	110.00	31.39	15 000.0	0.200	N	FLO	10.1
0.077	68.88	---	86.07	17.19	15 000.0	0.200	N	FLO	9.9
0.115	34.62	---	82.39	47.76	15 000.0	0.200	N	FLO	9.9
0.194	---	38.87	53.86	15.00	15 000.0	9.000	N	FLO	9.9
0.194	44.14	---	63.86	19.73	15 000.0	9.000	N	FLO	9.9
0.462	---	21.98	46.66	24.68	15 000.0	9.000	N	FLO	9.9
0.462	35.09	---	56.66	21.57	15 000.0	9.000	N	FLO	9.9
3.698	---	19.84	46.00	26.16	15 000.0	9.000	N	FLO	10.0
3.698	32.49	---	56.00	23.51	15 000.0	9.000	N	FLO	10.0

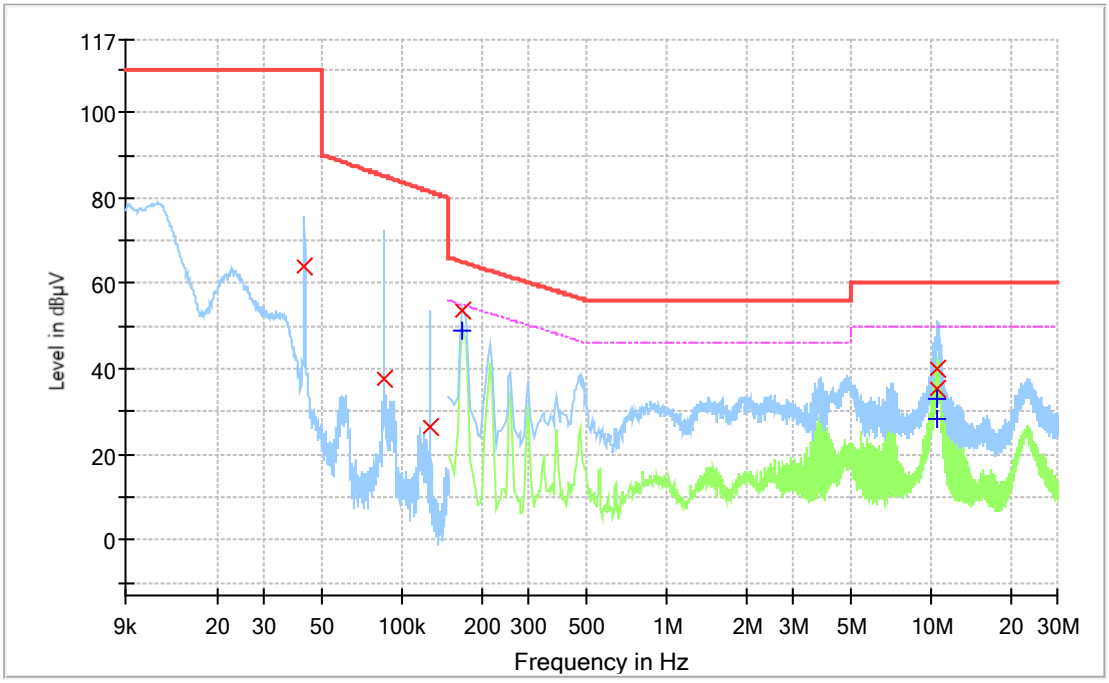
Live Line_10) 240 V Center Cooking Zone Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.037	86.59	---	110.00	23.41	15 000.0	0.200	L1	FLO	10.1
0.073	79.16	---	86.56	7.40	15 000.0	0.200	L1	FLO	9.9
0.109	49.58	---	82.87	33.29	15 000.0	0.200	L1	FLO	9.9
0.146	41.92	---	80.25	38.33	15 000.0	0.200	L1	FLO	9.9
0.182	---	14.45	54.39	39.94	15 000.0	9.000	L1	FLO	9.9
0.182	23.44	---	64.39	40.95	15 000.0	9.000	L1	FLO	9.9
10.242	---	30.34	50.00	19.66	15 000.0	9.000	L1	FLO	10.2
10.242	37.66	---	60.00	22.34	15 000.0	9.000	L1	FLO	10.2

Neutral Line_10) 240 V Center Cooking Zone Operating Mode



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	C-Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.043	64.19	---	110.00	45.81	15 000.0	0.200	N	FLO	10.1
0.086	37.82	---	85.11	47.29	15 000.0	0.200	N	FLO	9.9
0.128	26.38	---	81.44	55.05	15 000.0	0.200	N	FLO	9.9
0.170	53.76	---	64.96	11.21	15 000.0	9.000	N	FLO	9.9
0.170	---	49.00	54.96	5.96	15 000.0	9.000	N	FLO	9.9
10.446	---	32.94	50.00	17.06	15 000.0	9.000	N	FLO	10.3
10.446	39.81	---	60.00	20.19	15 000.0	9.000	N	FLO	10.3
10.618	---	28.21	50.00	21.79	15 000.0	9.000	N	FLO	10.3
10.618	35.38	---	60.00	24.62	15 000.0	9.000	N	FLO	10.3

Measurement Uncertainty: See Appendix A
Note: • Line (L1) : Live • Line (N) : Neutral
• Corr. : LISN Factor + Pulse Limiter Factor + Cable Loss
• Margin = Limit – QuasiPeak or Average

Ex) In case

Freq ; 0.5 ㎒, level ; 30 ㏈(µV), CL ; 0.2 ㏈, LISN ; 9.5 ㏈, P/L: 9.8 ㏈
Result = Level + CL + LISN + P/L
= 30 + 0.2 + 9.5 + 9.8
= 49.5
Margin = Limit – Result
= 56 - 49.5
= 6.5

2.4 Radiated Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (0.009 ㎒ to 30 ㎒) using a max hold mode incorporating a Average detector by using the EMI measuring software. The final test data was measured using a Average detector.
Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Note. Measuring software
- Giheung Lab.: EMC32(V10.40.10) from R&S
- Gunpo Lab.: EP5RE(V5.3.70) from TOYO
- Dongtan Lab.: EMC32(V10.40.10) from R&S

2.4.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU40	R&S	100075	2024.01.19
LOOP ANTENNA	HFH2-Z2	R&S	827525/002	2024.03.03
EMH-1Lab-RE-05	-	-	-	2024.01.07
EMH-1Lab-RE-06	-	-	-	2024.01.07

Note: The calibration period of every equipment is 1 year.

2.4.2 Test Site

10 m SEMI-ANECHOIC CHAMBER in Giheung Laboratory

2.4.3 Environment Conditions

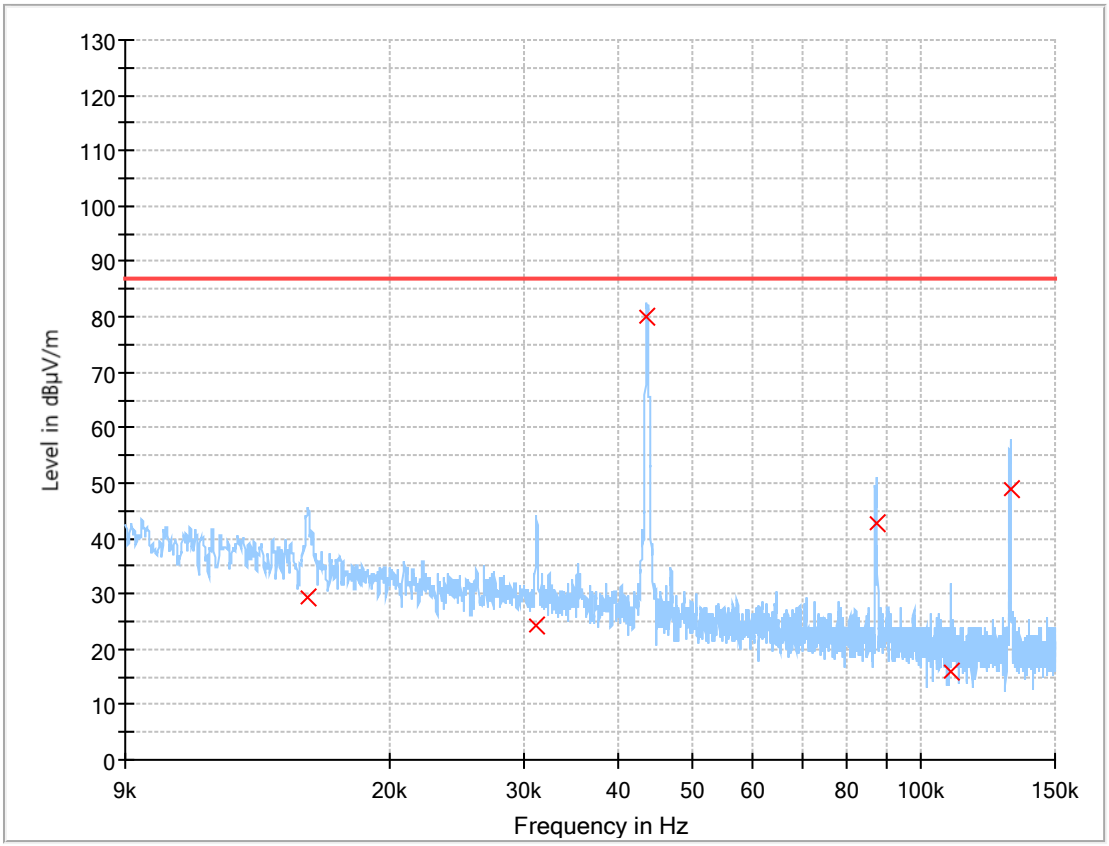
0.009 ㎒ ~ 30 ㎒

Temperature	(Minimum 22.2, Maximum 22.9) ℃
Humidity	(Minimum 40.0, Maximum 42.0) % R.H.
Atmospheric Pressure	(Minimum 101.0, Maximum 101.0) ㎪
Test Date	September 13, 2023

2.4.4 Test Results

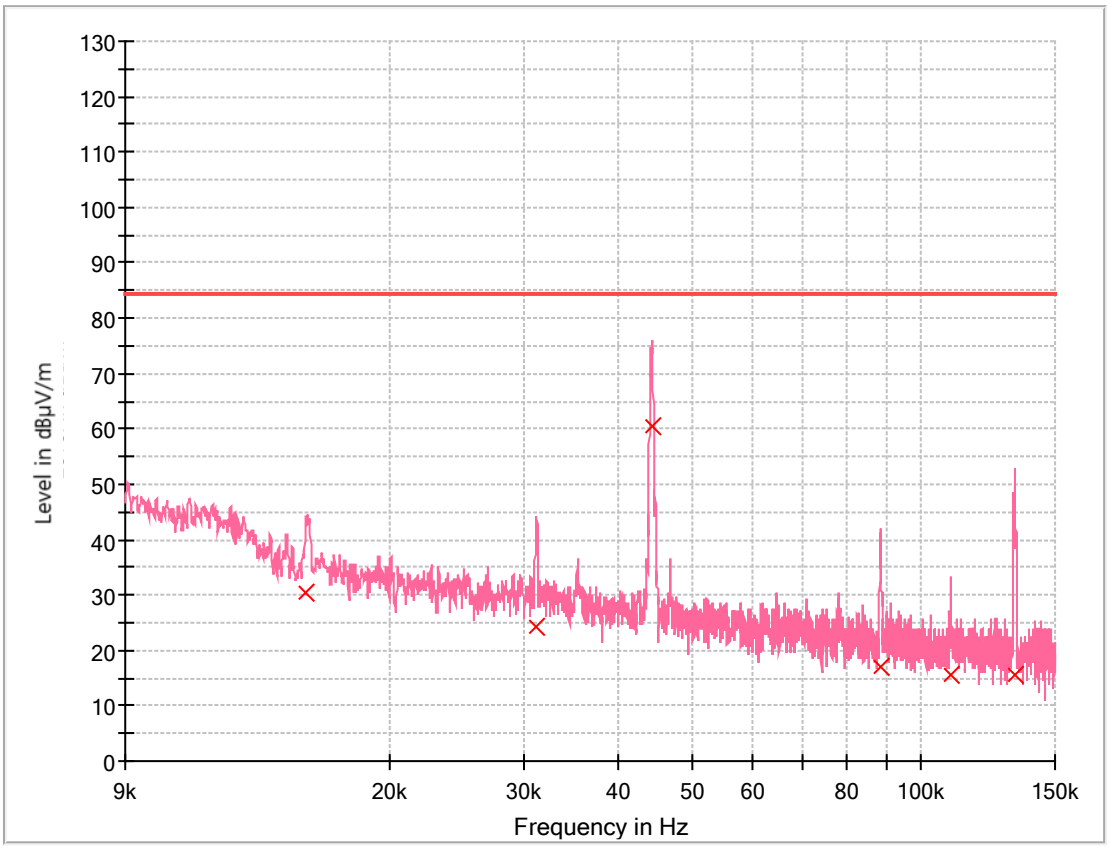
① 0.009 ㎒ ~ 0.15 ㎒ (10 m method)

1) 208 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

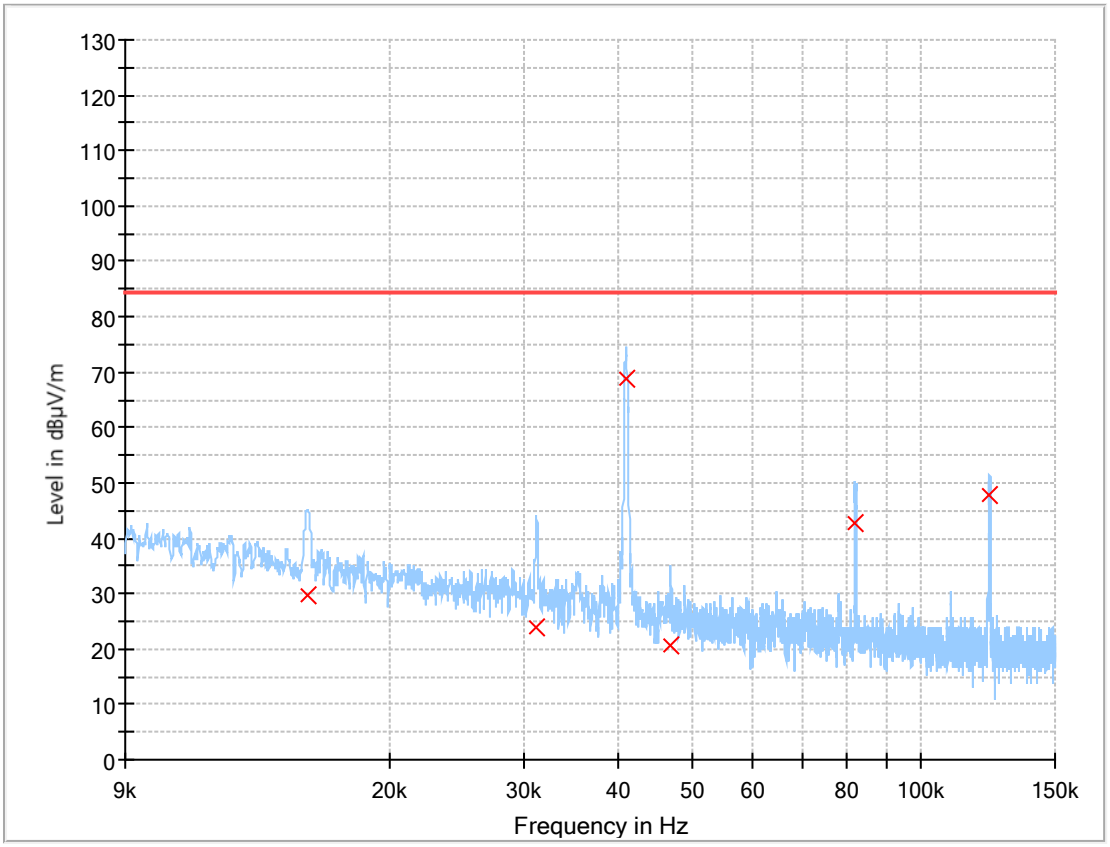
Frequency (㎒)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (㎑)	Pol	Azimuth (deg)	Corr. (dB)
0.016	**29.25**	**86.87**	**57.62**	**15 000.0**	**0.200**	**H**	**55.0**	**19.9**
0.031	**24.28**	**86.87**	**62.59**	**15 000.0**	**0.200**	**H**	**12.0**	**20.1**
0.044	**80.05**	**86.87**	**6.82**	**15 000.0**	**0.200**	**H**	**0.0**	**20.2**
0.087	**42.77**	**86.87**	**44.10**	**15 000.0**	**0.200**	**H**	**0.0**	**20.2**
0.109	**15.97**	**86.87**	**70.90**	**15 000.0**	**0.200**	**H**	**55.0**	**20.2**
0.131	**48.73**	**86.87**	**38.14**	**15 000.0**	**0.200**	**H**	**12.0**	**20.2**



Final_Result

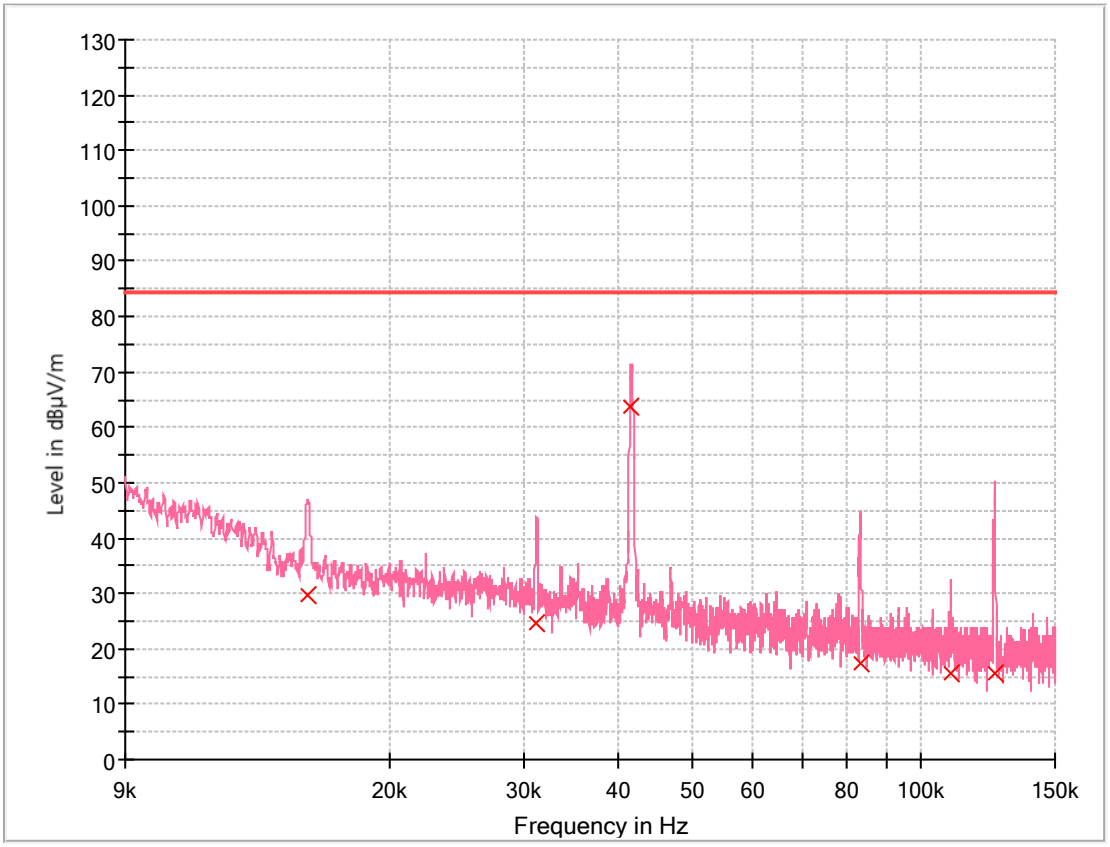
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	30.35	84.23	53.88	15 000.0	0.200	V	316.0	19.9
0.031	24.26	84.23	59.97	15 000.0	0.200	V	12.0	20.1
0.044	60.42	84.23	23.81	15 000.0	0.200	V	272.0	20.2
0.089	17.03	84.23	67.20	15 000.0	0.200	V	316.0	20.2
0.109	15.55	84.23	68.68	15 000.0	0.200	V	185.0	20.2
0.133	15.70	84.23	68.53	15 000.0	0.200	V	98.0	20.2

2) 208 V Left Front Cooking Zone Boost Operating Mode



Final_Result

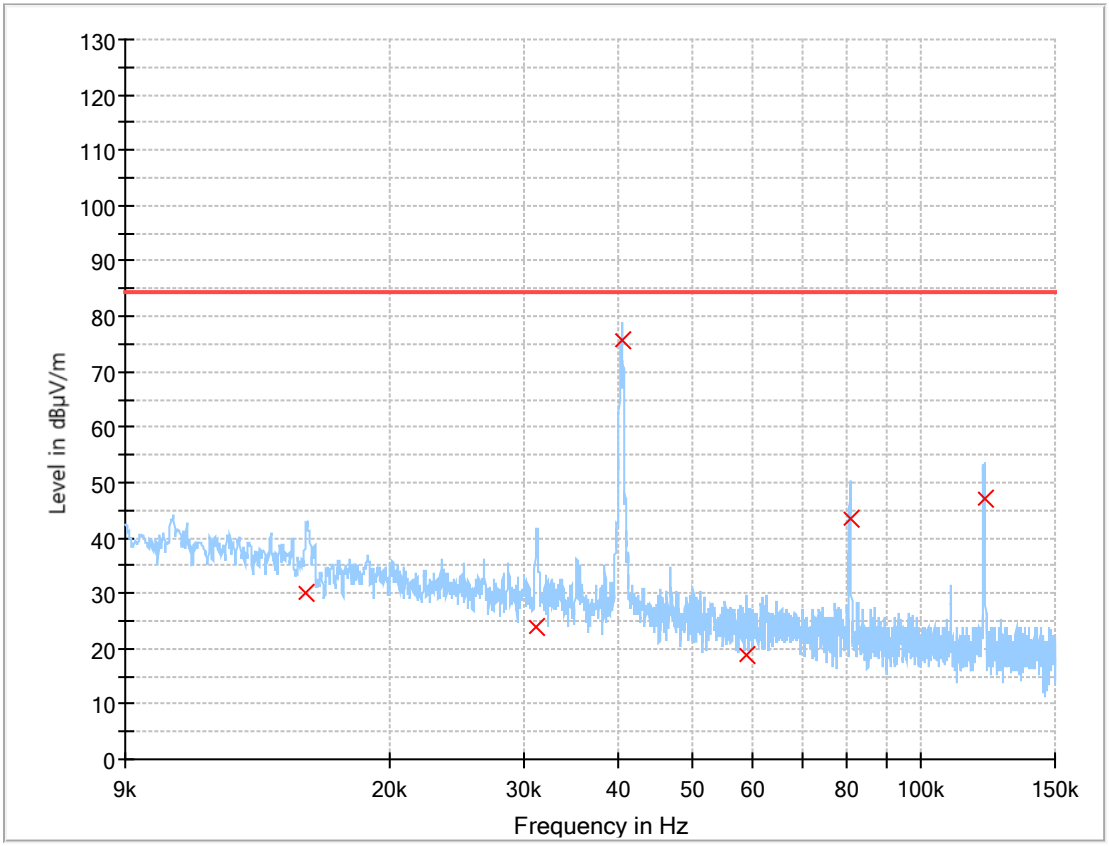
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.57	84.23	54.66	15 000.0	0.200	H	55.0	19.9
0.031	23.87	84.23	60.36	15 000.0	0.200	H	55.0	20.1
0.041	68.70	84.23	15.53	15 000.0	0.200	H	229.0	20.2
0.047	20.74	84.23	63.49	15 000.0	0.200	H	142.0	20.2
0.082	42.76	84.23	41.47	15 000.0	0.200	H	229.0	20.2
0.123	47.68	84.23	36.55	15 000.0	0.200	H	0.0	20.2



Final_Result

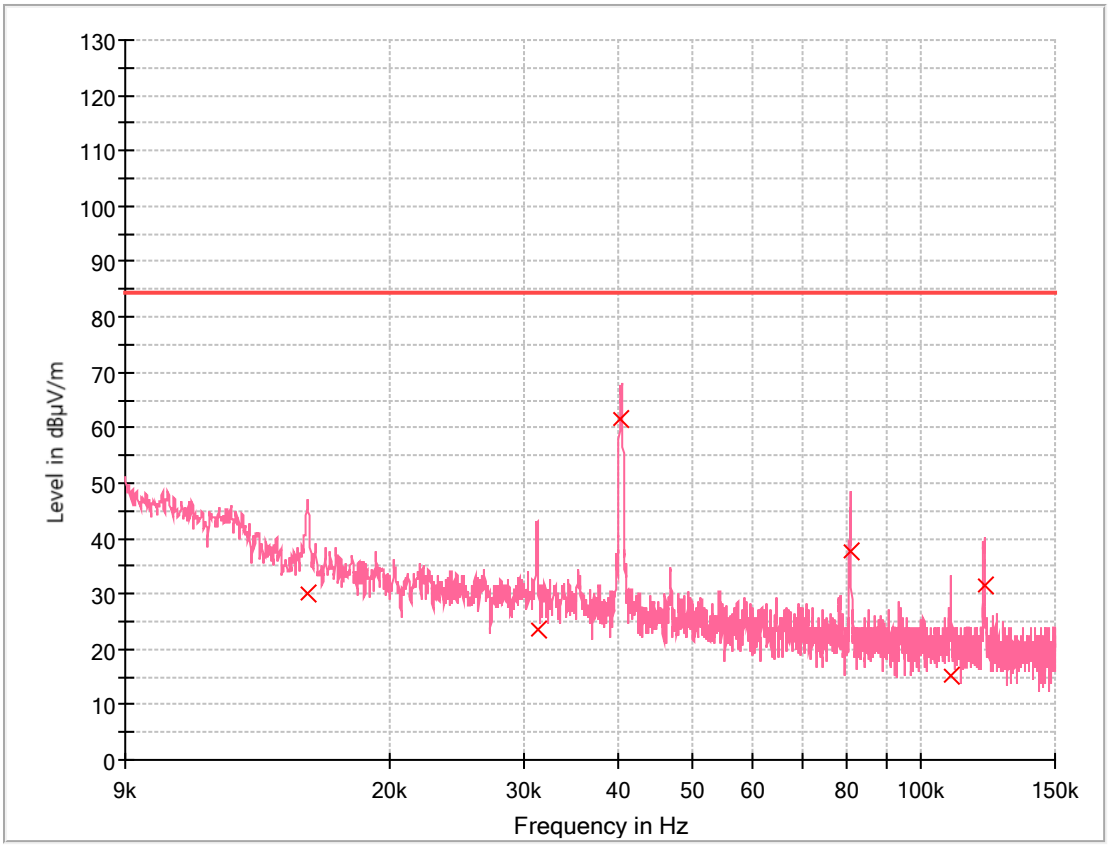
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.81	84.23	54.42	15 000.0	0.200	V	55.0	19.9
0.031	24.46	84.23	59.77	15 000.0	0.200	V	316.0	20.1
0.042	63.73	84.23	20.50	15 000.0	0.200	V	55.0	20.2
0.083	17.38	84.23	66.85	15 000.0	0.200	V	272.0	20.2
0.109	15.70	84.23	68.53	15 000.0	0.200	V	229.0	20.2
0.125	15.59	84.23	68.64	15 000.0	0.200	V	272.0	20.2

3) 208 V Right Front Cooking Zone Boost Operating Mode



Final_Result

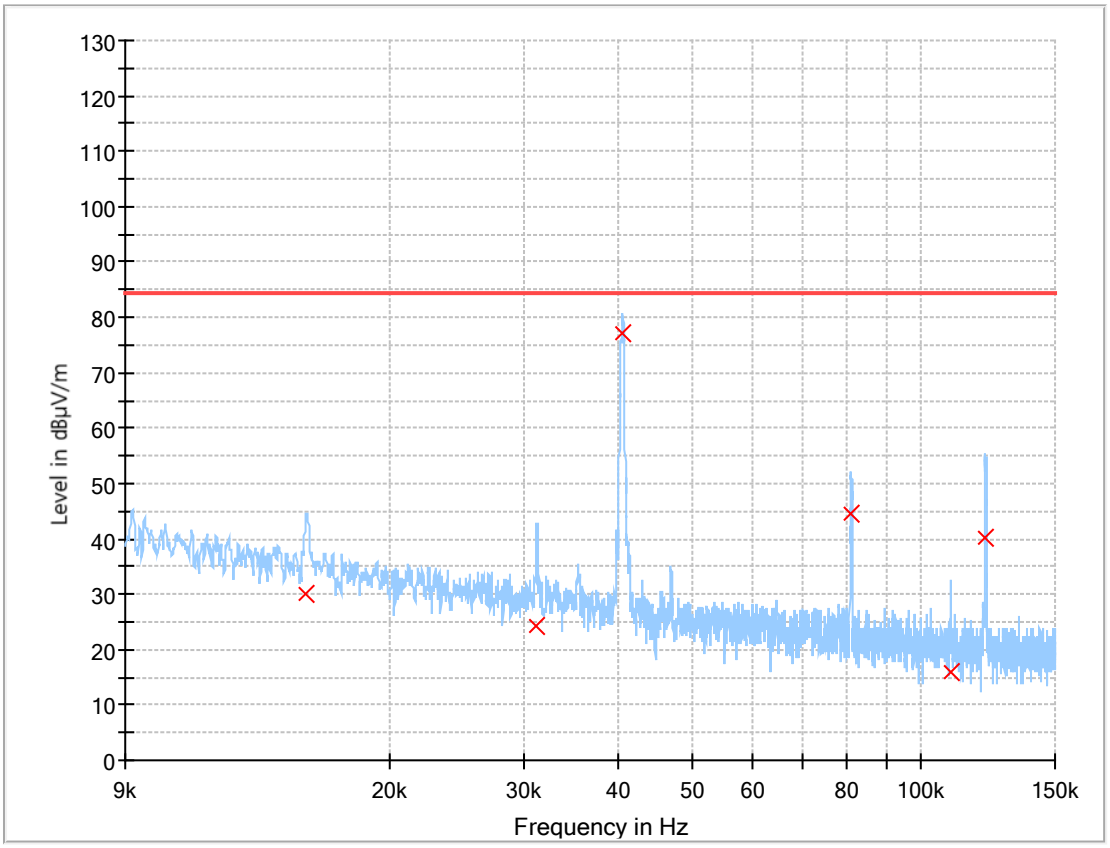
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
	29.91	84.23	54.32	15 000.0	0.200	H	174.0	19.9
0.031	23.75	84.23	60.48	15 000.0	0.200	H	218.0	20.1
0.040	75.68	84.23	8.55	15 000.0	0.200	H	44.0	20.2
0.059	18.72	84.23	65.51	15 000.0	0.200	H	0.0	20.2
0.081	43.51	84.23	40.72	15 000.0	0.200	H	0.0	20.2
0.121	47.02	84.23	37.21	15 000.0	0.200	H	0.0	20.2



Final_Result

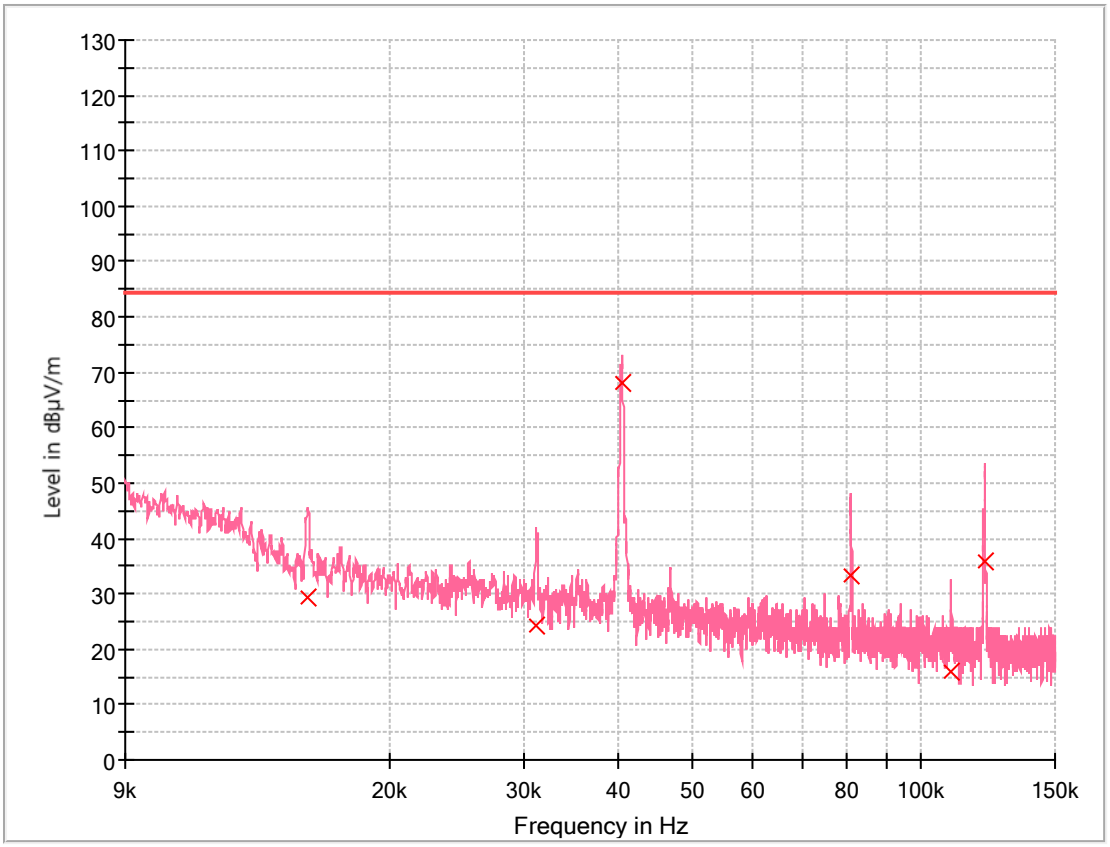
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	30.00	84.23	54.23	15 000.0	0.200	V	0.0	19.9
0.031	23.48	84.23	60.75	15 000.0	0.200	V	0.0	20.1
0.040	61.45	84.23	22.78	15 000.0	0.200	V	12.0	20.2
0.081	37.48	84.23	46.75	15 000.0	0.200	V	317.0	20.2
0.109	15.12	84.23	69.11	15 000.0	0.200	V	55.0	20.2
0.121	31.43	84.23	52.80	15 000.0	0.200	V	273.0	20.2

4) 208 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

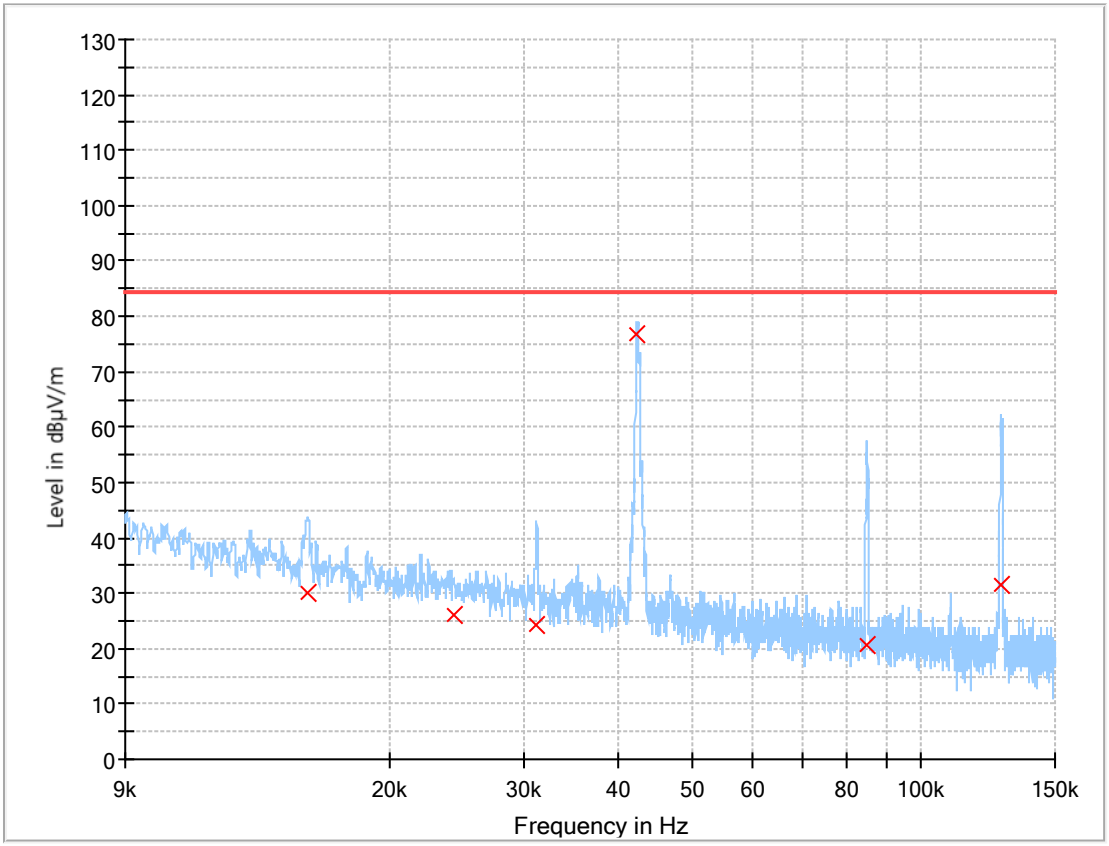
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	30.08	84.23	54.15	15 000.0	0.200	H	316.0	19.9
0.031	24.27	84.23	59.96	15 000.0	0.200	H	316.0	20.1
0.040	77.18	84.23	7.05	15 000.0	0.200	H	96.0	20.2
0.081	44.59	84.23	39.64	15 000.0	0.200	H	9.0	20.2
0.109	15.83	84.23	68.40	15 000.0	0.200	H	52.0	20.2
0.121	40.09	84.23	44.14	15 000.0	0.200	H	52.0	20.2



Final_Result

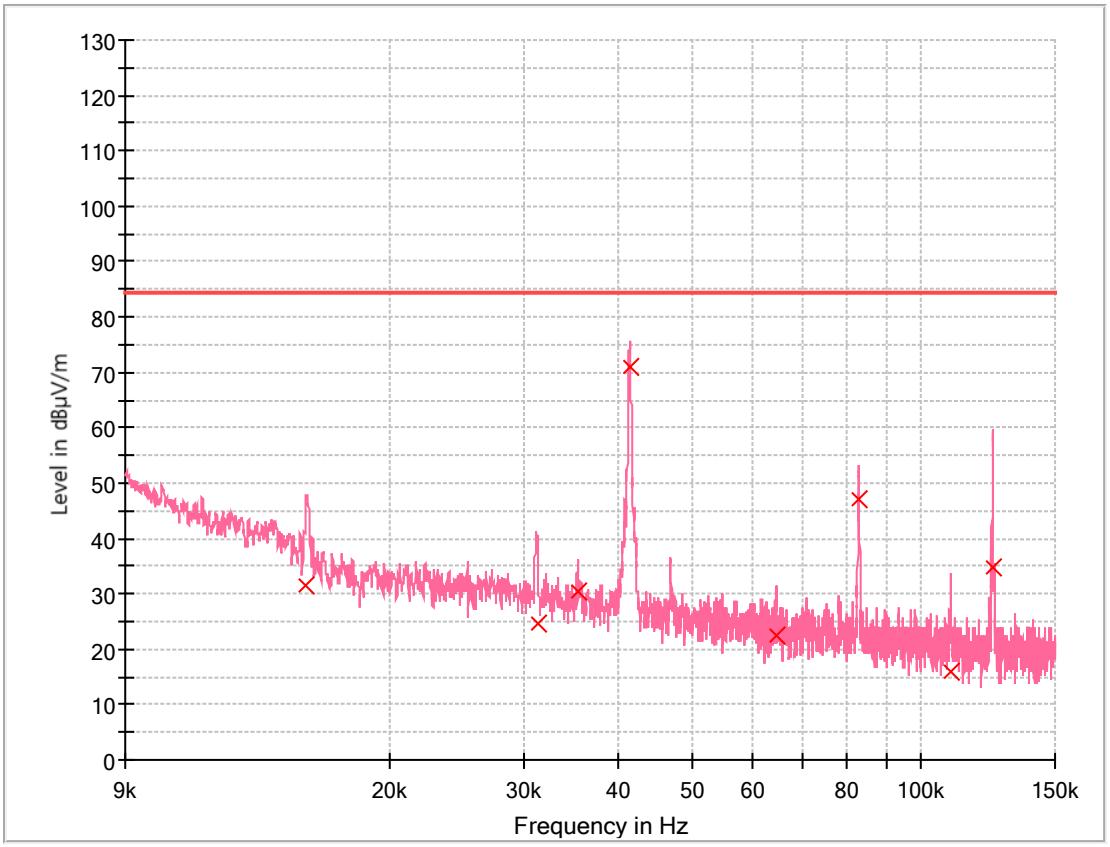
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.47	84.23	54.76	15 000.0	0.200	V	0.0	19.9
0.031	24.34	84.23	59.89	15 000.0	0.200	V	272.0	20.1
0.040	67.98	84.23	16.25	15 000.0	0.200	V	0.0	20.2
0.081	33.23	84.23	51.00	15 000.0	0.200	V	316.0	20.2
0.109	15.81	84.23	68.42	15 000.0	0.200	V	185.0	20.2
0.121	35.83	84.23	48.40	15 000.0	0.200	V	98.0	20.2

5) 208 V Center Cooking Zone Boost Operating Mode



Final_Result

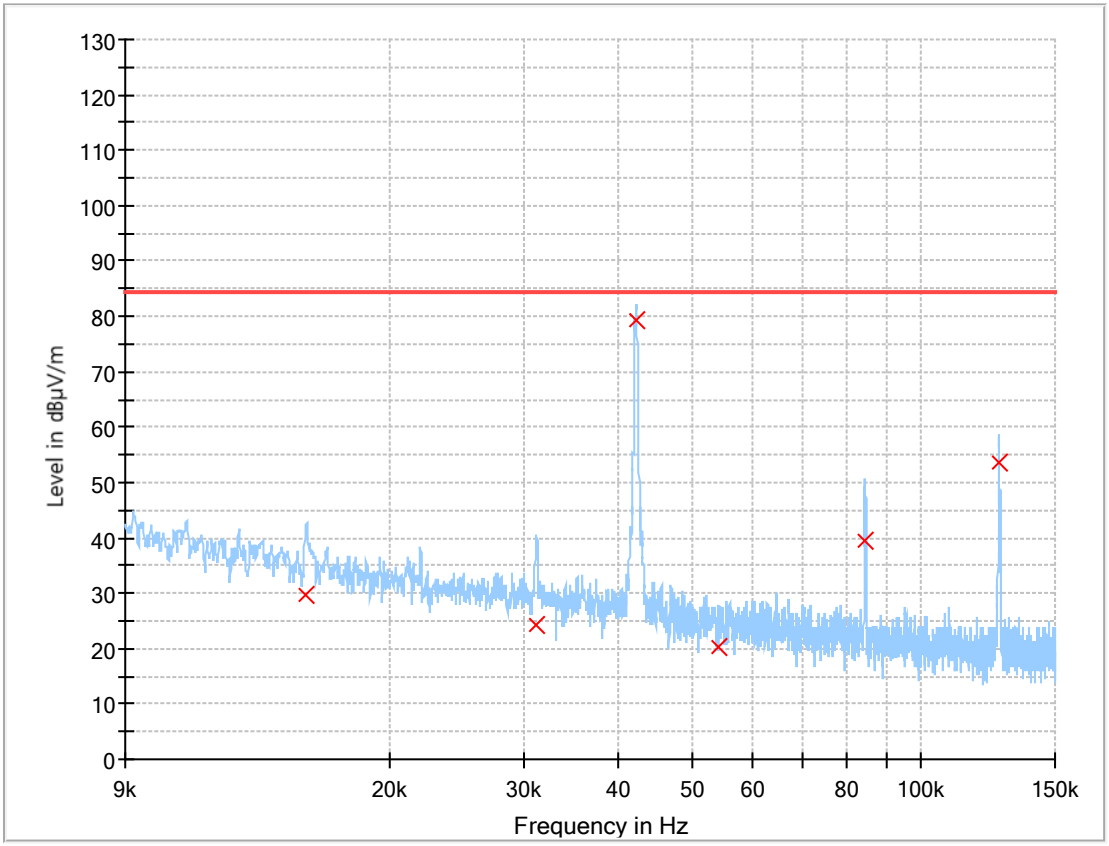
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.89	84.23	54.34	15 000.0	0.200	H	0.0	19.9
0.024	26.03	84.23	58.20	15 000.0	0.200	H	316.0	20.1
0.031	24.15	84.23	60.08	15 000.0	0.200	H	229.0	20.1
0.042	76.76	84.23	7.47	15 000.0	0.200	H	0.0	20.2
0.085	20.72	84.23	63.51	15 000.0	0.200	H	0.0	20.2
0.128	31.57	84.23	52.66	15 000.0	0.200	H	0.0	20.2



Final_Result

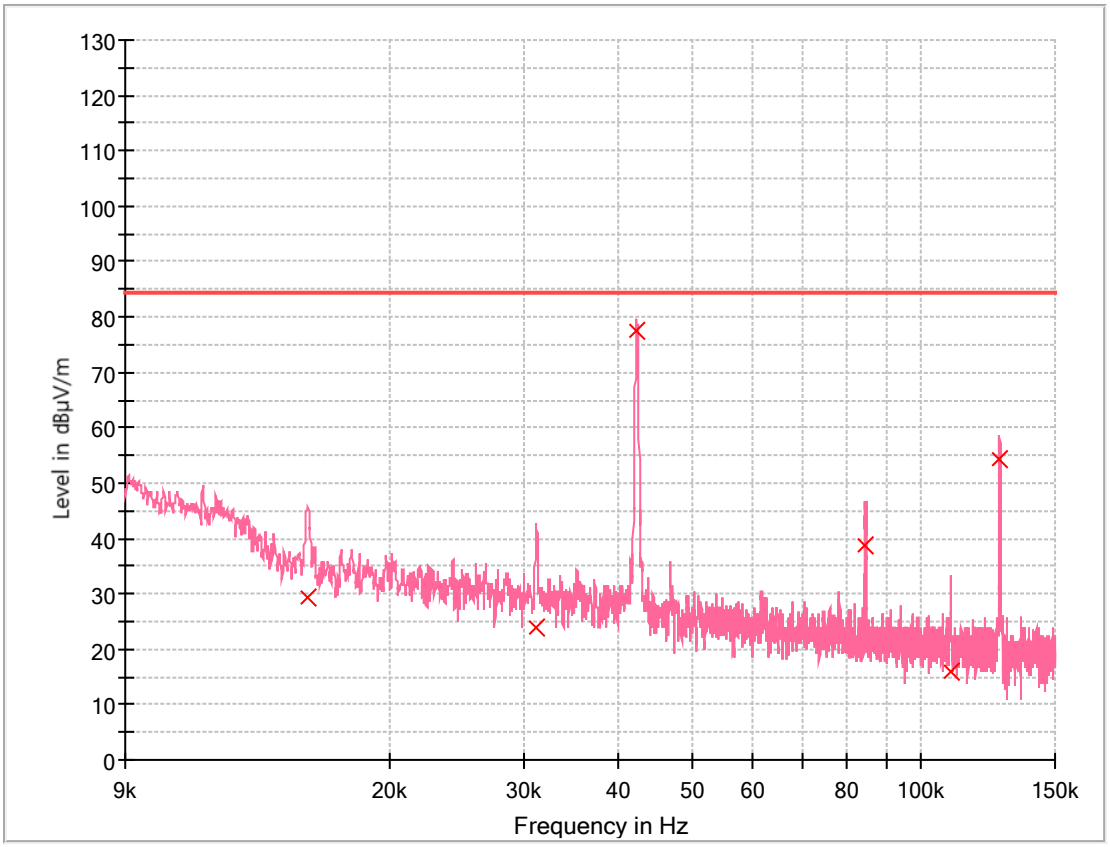
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	31.68	84.23	52.55	15 000.0	0.200	V	98.0	19.9
0.031	24.48	84.23	59.75	15 000.0	0.200	V	229.0	20.1
0.035	30.42	84.23	53.81	15 000.0	0.200	V	316.0	20.2
0.041	70.82	84.23	13.41	15 000.0	0.200	V	272.0	20.2
0.065	22.51	84.23	61.72	15 000.0	0.200	V	142.0	20.2
0.083	47.21	84.23	37.02	15 000.0	0.200	V	316.0	20.2
0.109	16.05	84.23	68.18	15 000.0	0.200	V	185.0	20.2
0.124	34.65	84.23	49.58	15 000.0	0.200	V	316.0	20.2

6) 240 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

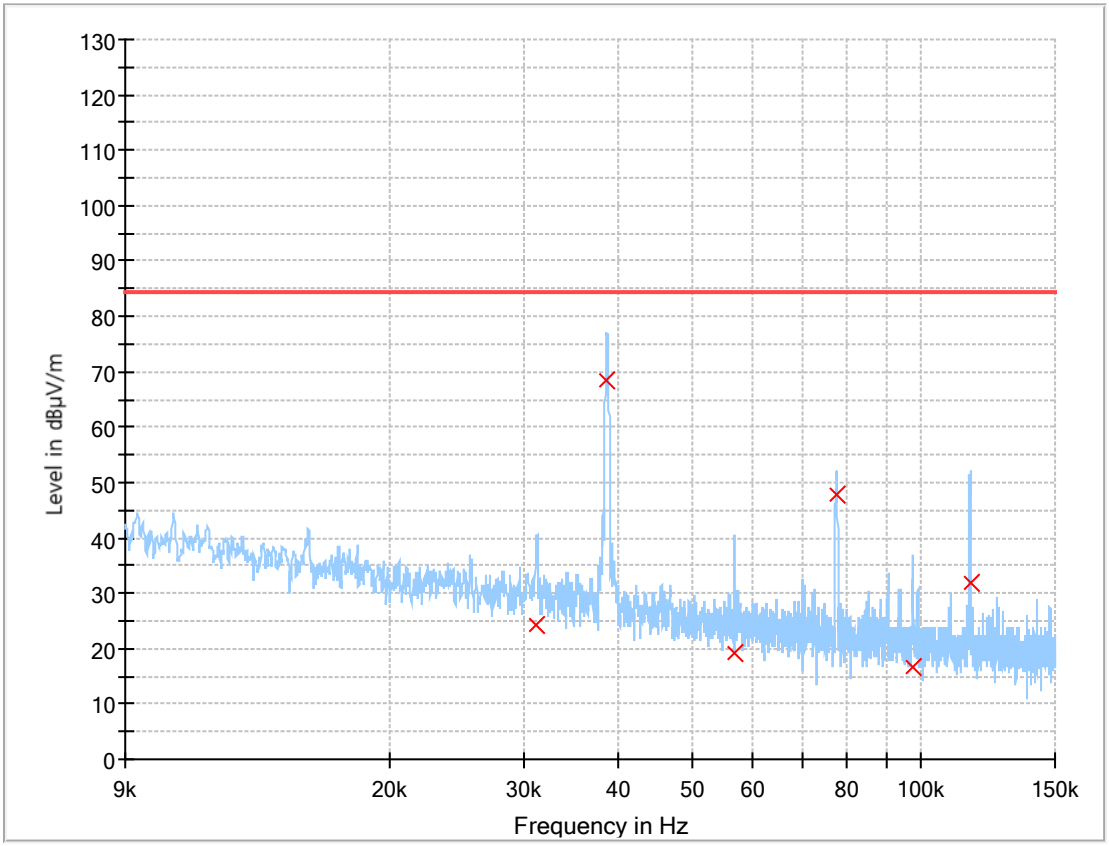
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.75	84.23	54.48	15 000.0	0.200	H	98.0	19.9
0.031	24.26	84.23	59.97	15 000.0	0.200	H	229.0	20.1
0.042	79.43	84.23	4.80	15 000.0	0.200	H	0.0	20.2
0.054	20.29	84.23	63.94	15 000.0	0.200	H	0.0	20.2
0.084	39.52	84.23	44.71	15 000.0	0.200	H	0.0	20.2
0.127	53.44	84.23	30.79	15 000.0	0.200	H	55.0	20.2



Final_Result

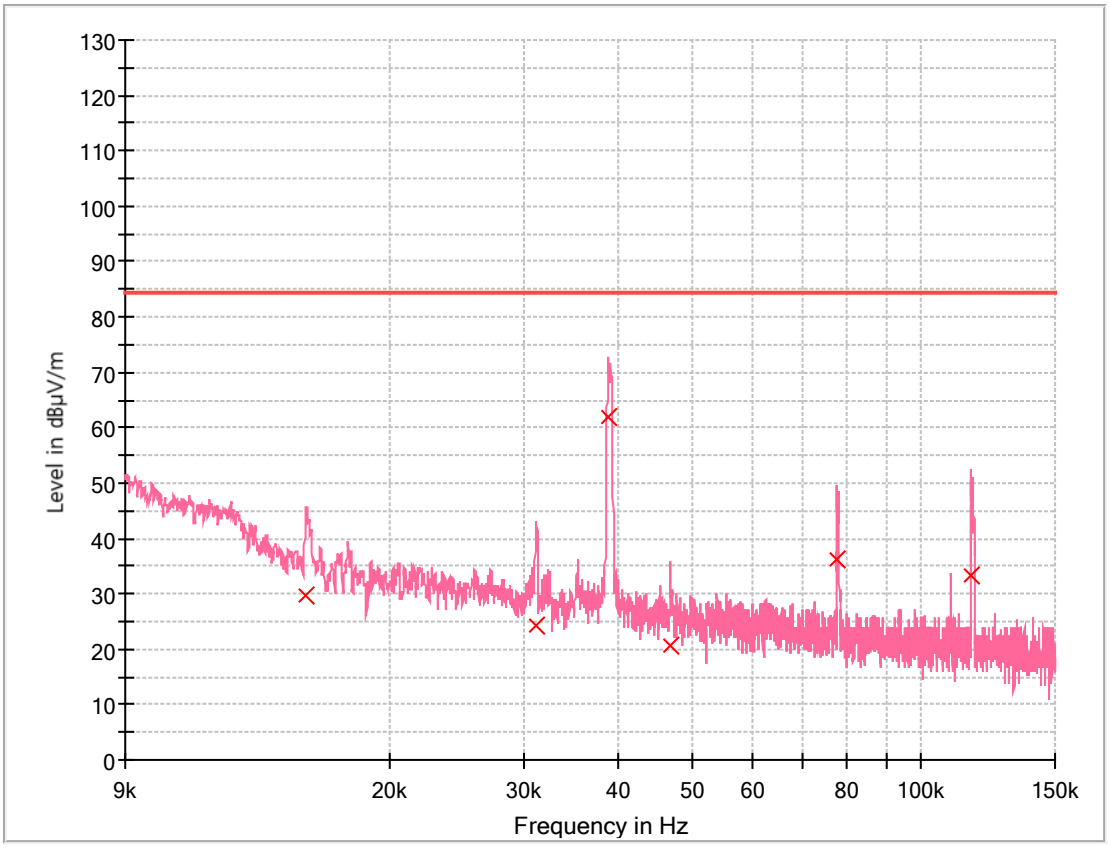
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.36	84.23	54.87	15 000.0	0.200	V	98.0	19.9
0.031	24.02	84.23	60.21	15 000.0	0.200	V	228.0	20.1
0.042	77.46	84.23	6.77	15 000.0	0.200	V	272.0	20.2
0.085	38.80	84.23	45.43	15 000.0	0.200	V	316.0	20.2
0.109	15.86	84.23	68.37	15 000.0	0.200	V	184.0	20.2
0.127	54.47	84.23	29.76	15 000.0	0.200	V	54.0	20.2

7) 240 V Left Front Cooking Zone Boost Operating Mode



Final_Result

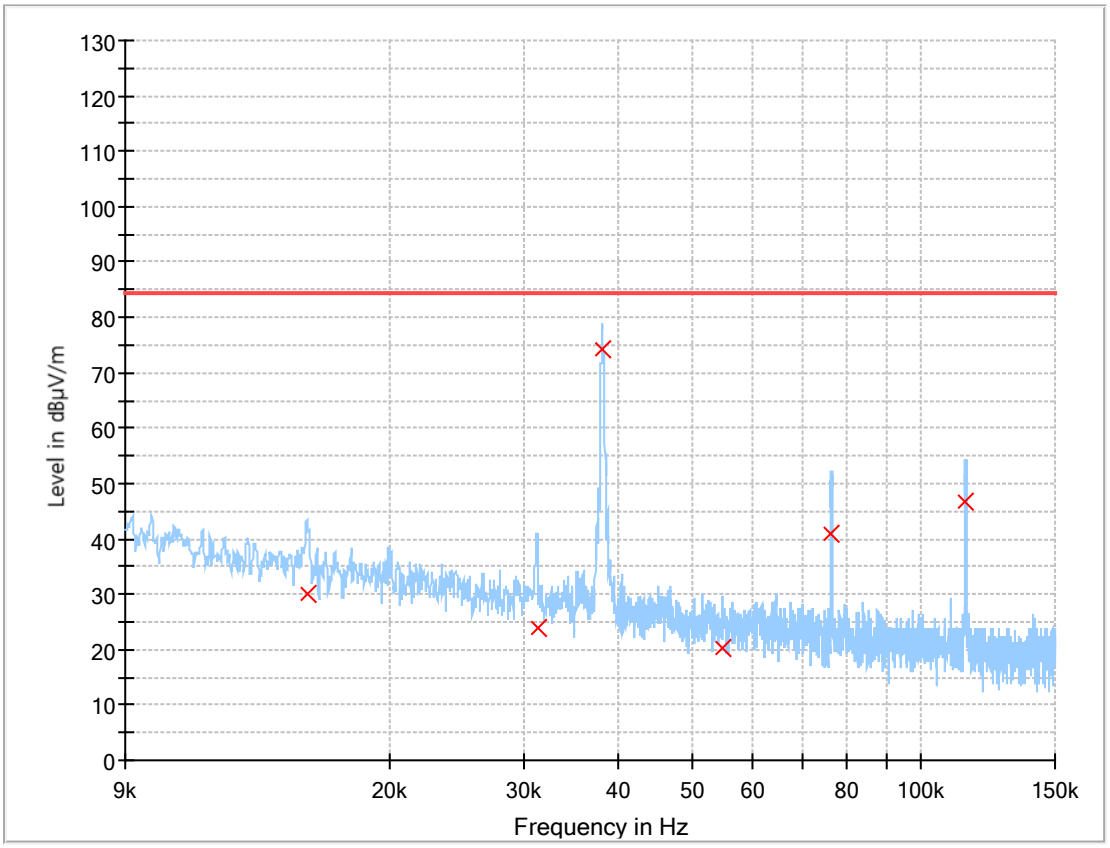
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.031	24.11	84.23	60.12	15 000.0	0.200	H	134.0	20.1
0.039	68.52	84.23	15.71	15 000.0	0.200	H	221.0	20.2
0.057	19.30	84.23	64.93	15 000.0	0.200	H	351.0	20.2
0.077	47.91	84.23	36.32	15 000.0	0.200	H	0.0	20.2
0.097	16.59	84.23	67.64	15 000.0	0.200	H	308.0	20.2
0.116	31.98	84.23	52.25	15 000.0	0.200	H	308.0	20.2



Final_Result

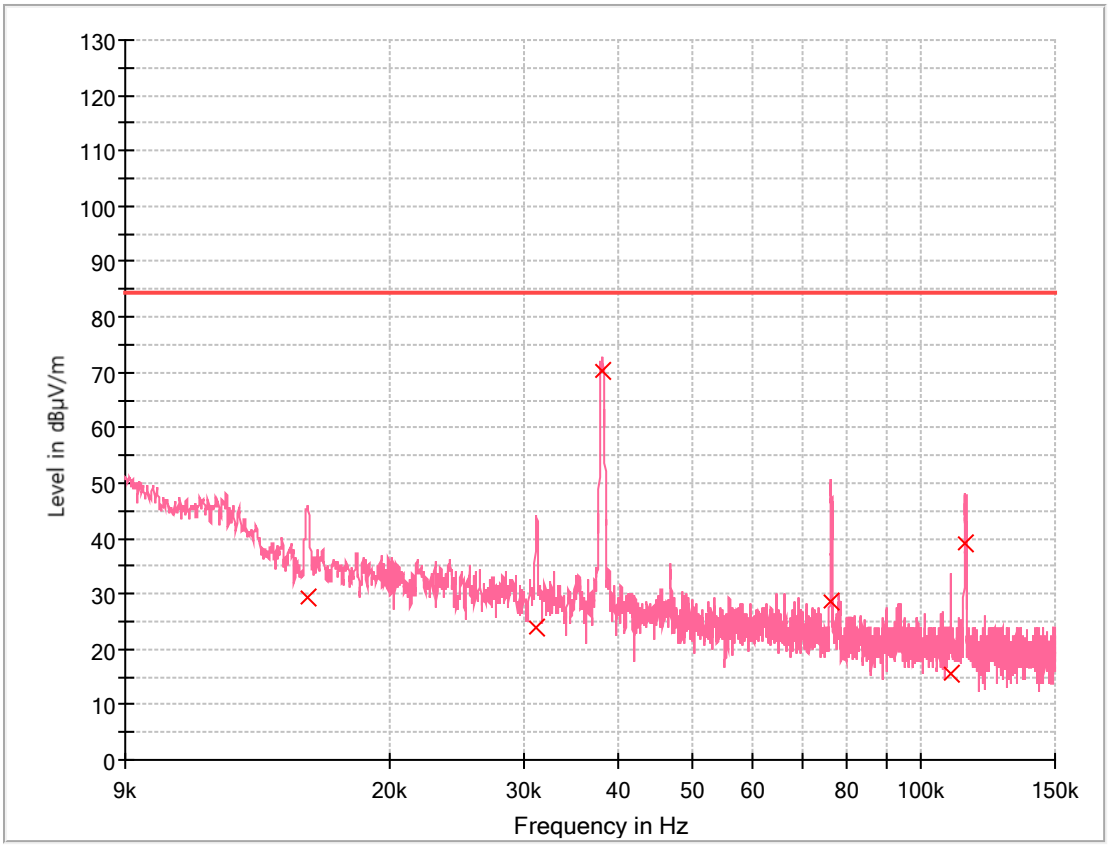
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.71	84.23	54.52	15 000.0	0.200	V	316.0	19.9
0.031	24.14	84.23	60.09	15 000.0	0.200	V	316.0	20.1
0.039	61.77	84.23	22.46	15 000.0	0.200	V	56.0	20.2
0.047	20.66	84.23	63.57	15 000.0	0.200	V	0.0	20.2
0.078	36.20	84.23	48.03	15 000.0	0.200	V	98.0	20.2
0.116	33.15	84.23	51.08	15 000.0	0.200	V	56.0	20.2

8) 240 V Right Front Cooking Zone Boost Operating Mode



Final_Result

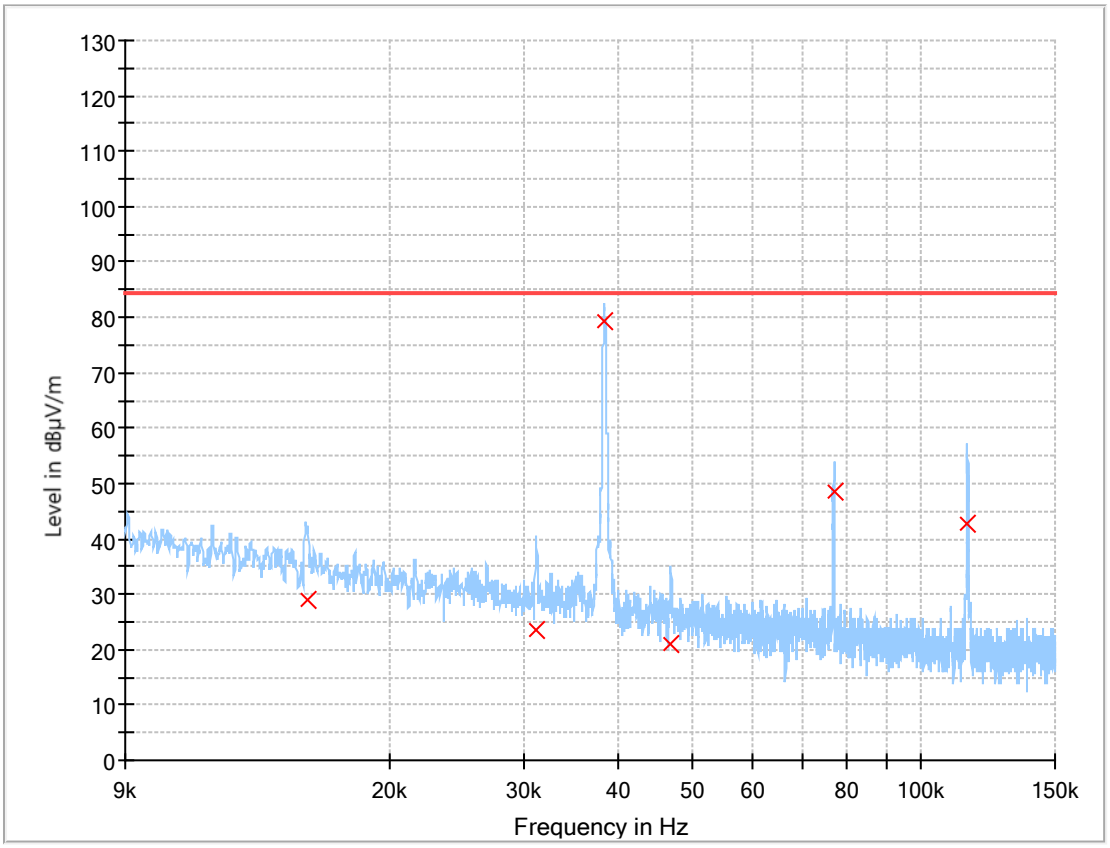
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	30.09	84.23	54.14	15 000.0	0.200	H	44.0	19.9
0.031	23.97	84.23	60.26	15 000.0	0.200	H	218.0	20.1
0.038	74.26	84.23	9.97	15 000.0	0.200	H	44.0	20.2
0.055	20.37	84.23	63.86	15 000.0	0.200	H	44.0	20.2
0.076	41.01	84.23	43.22	15 000.0	0.200	H	348.0	20.2
0.114	46.56	84.23	37.67	15 000.0	0.200	H	0.0	20.2



Final_Result

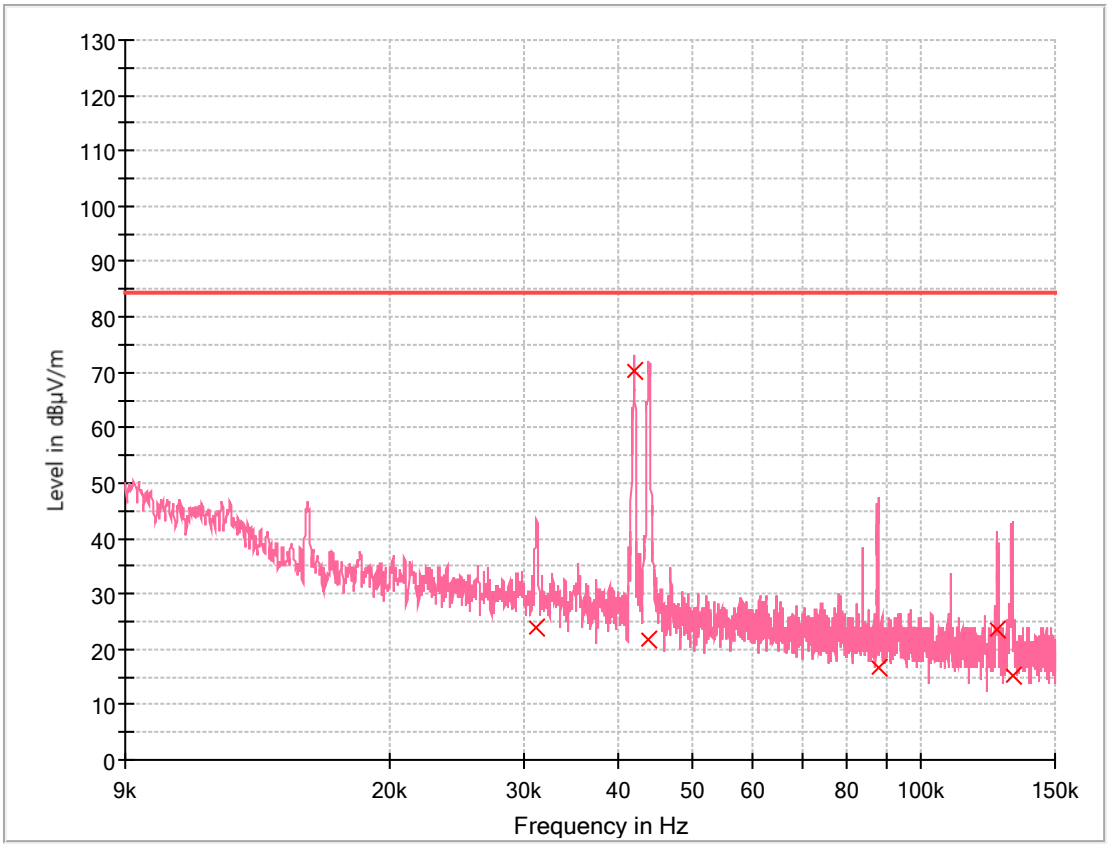
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.47	84.23	54.76	15 000.0	0.200	V	262.0	19.9
0.031	23.92	84.23	60.31	15 000.0	0.200	V	0.0	20.1
0.038	70.42	84.23	13.81	15 000.0	0.200	V	349.0	20.2
0.076	28.49	84.23	55.74	15 000.0	0.200	V	88.0	20.2
0.109	15.51	84.23	68.72	15 000.0	0.200	V	0.0	20.2
0.114	39.09	84.23	45.14	15 000.0	0.200	V	262.0	20.2

9) 240 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

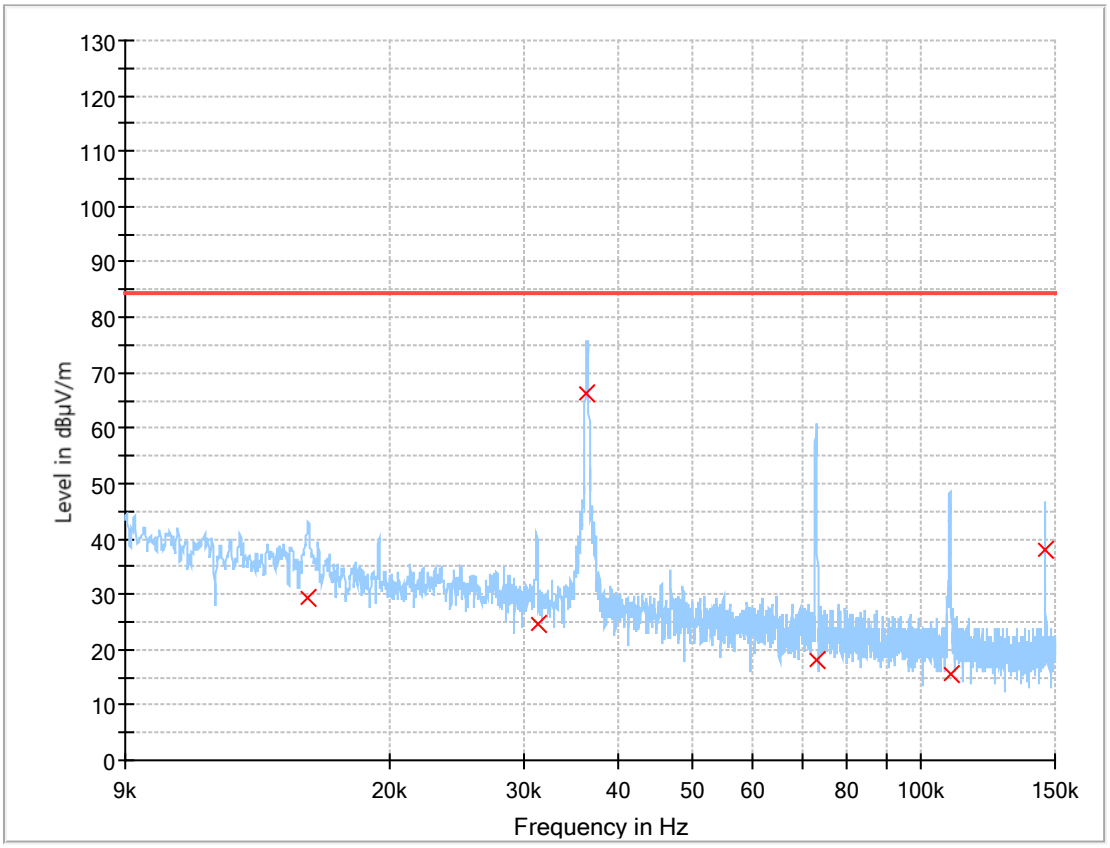
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	28.95	84.23	55.28	15 000.0	0.200	H	271.0	19.9
0.031	23.60	84.23	60.63	15 000.0	0.200	H	53.0	20.1
0.038	79.41	84.23	4.82	15 000.0	0.200	H	97.0	20.2
0.047	21.18	84.23	63.05	15 000.0	0.200	H	315.0	20.2
0.077	48.45	84.23	35.78	15 000.0	0.200	H	0.0	20.2
0.115	42.82	84.23	41.41	15 000.0	0.200	H	53.0	20.2



Final_Result

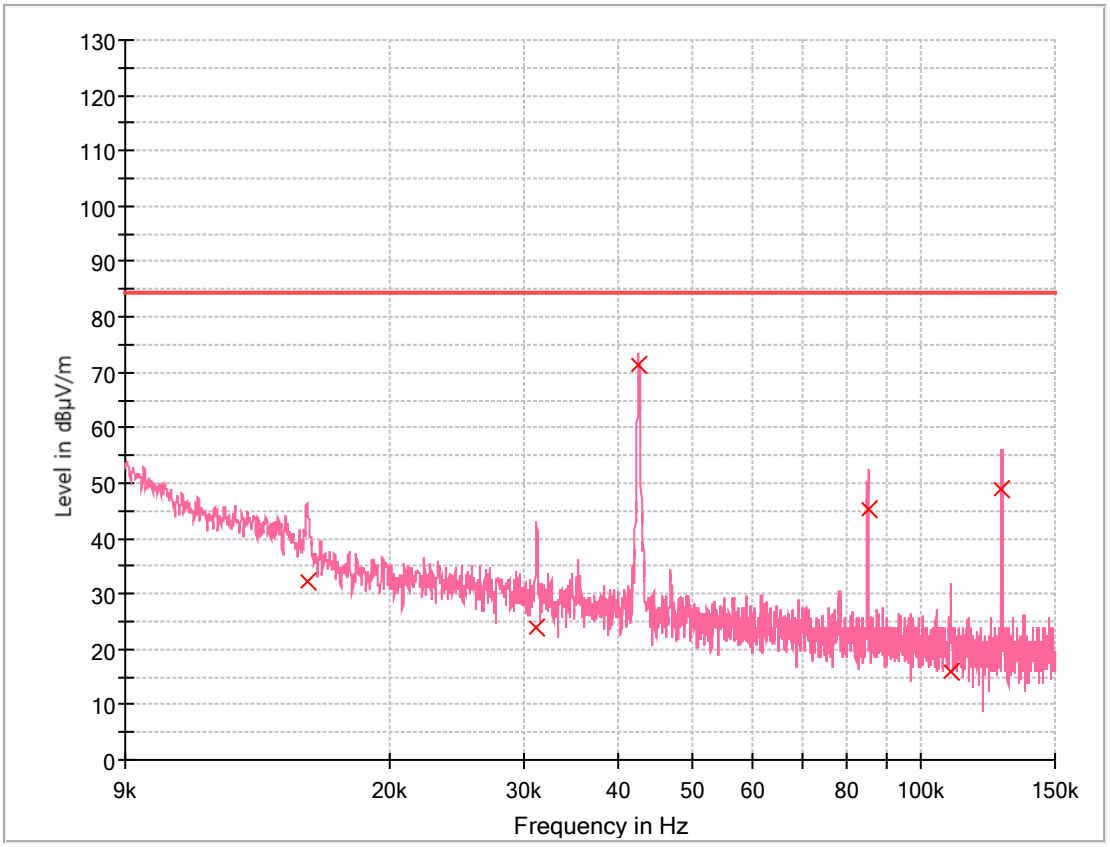
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.031	24.03	84.23	60.20	15 000.0	0.200	V	184.0	20.1
0.042	70.32	84.23	13.91	15 000.0	0.200	V	0.0	20.2
0.044	21.83	84.23	62.40	15 000.0	0.200	V	9.0	20.2
0.088	16.59	84.23	67.64	15 000.0	0.200	V	316.0	20.2
0.126	23.45	84.23	60.78	15 000.0	0.200	V	9.0	20.2
0.132	15.13	84.23	69.10	15 000.0	0.200	V	316.0	20.2

10) 240 V Center Cooking Zone Operating Mode



Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	29.22	84.23	55.01	15 000.0	0.200	H	272.0	19.9
0.031	24.46	84.23	59.77	15 000.0	0.200	H	142.0	20.1
0.036	66.14	84.23	18.09	15 000.0	0.200	H	12.0	20.2
0.073	18.10	84.23	66.13	15 000.0	0.200	H	12.0	20.2
0.109	15.67	84.23	68.56	15 000.0	0.200	H	55.0	20.2
0.145	38.00	84.23	46.23	15 000.0	0.200	H	0.0	20.2

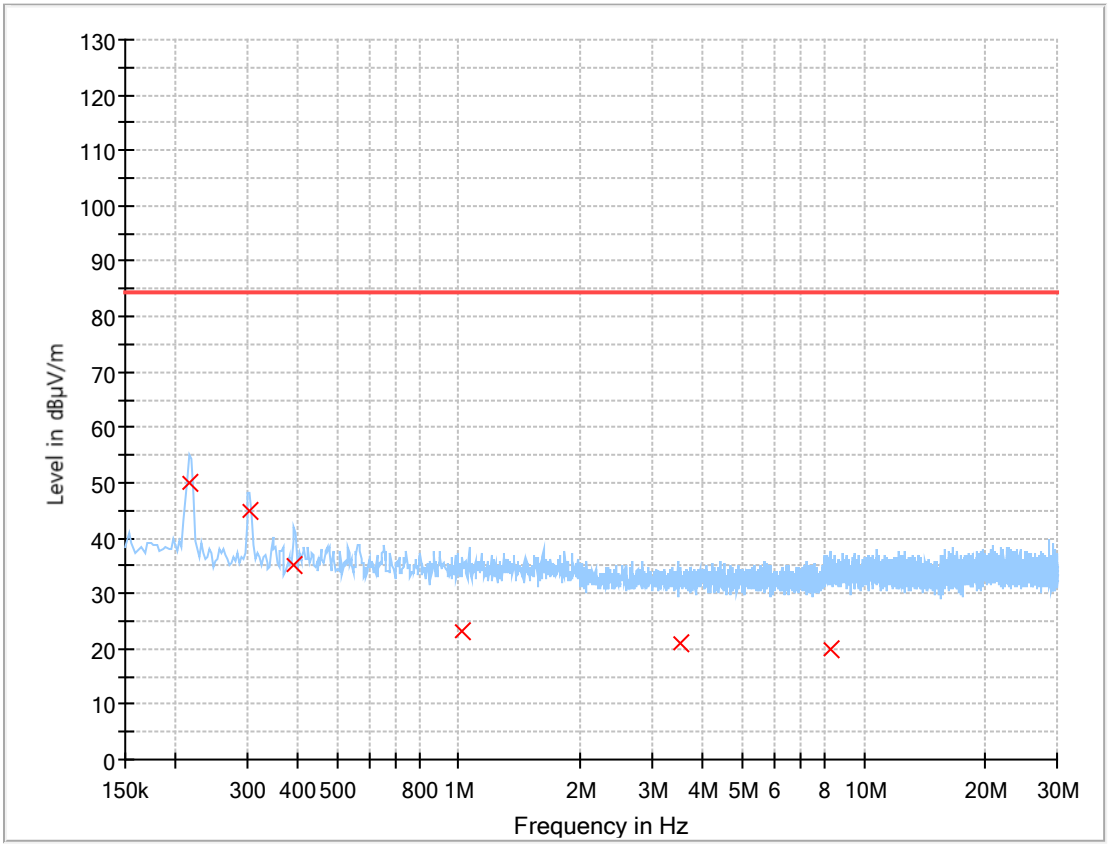


Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.016	32.06	84.23	52.17	15 000.0	0.200	V	185.0	19.9
0.031	23.92	84.23	60.31	15 000.0	0.200	V	55.0	20.1
0.043	71.41	84.23	12.82	15 000.0	0.200	V	98.0	20.2
0.085	45.22	84.23	39.01	15 000.0	0.200	V	142.0	20.2
0.109	15.95	84.23	68.28	15 000.0	0.200	V	185.0	20.2
0.128	48.88	84.23	35.35	15 000.0	0.200	V	272.0	20.2

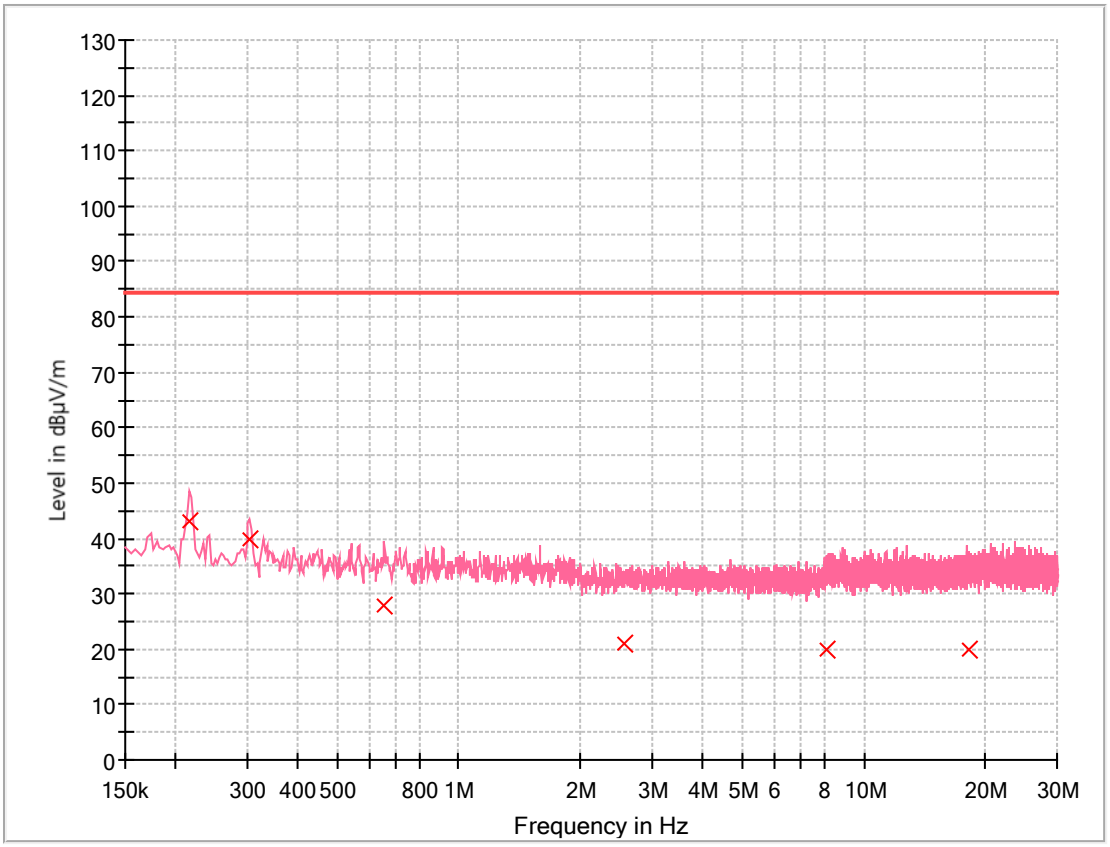
② 0.15 ㎒ ~ 30 ㎒ (10 m method)

1) 208 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

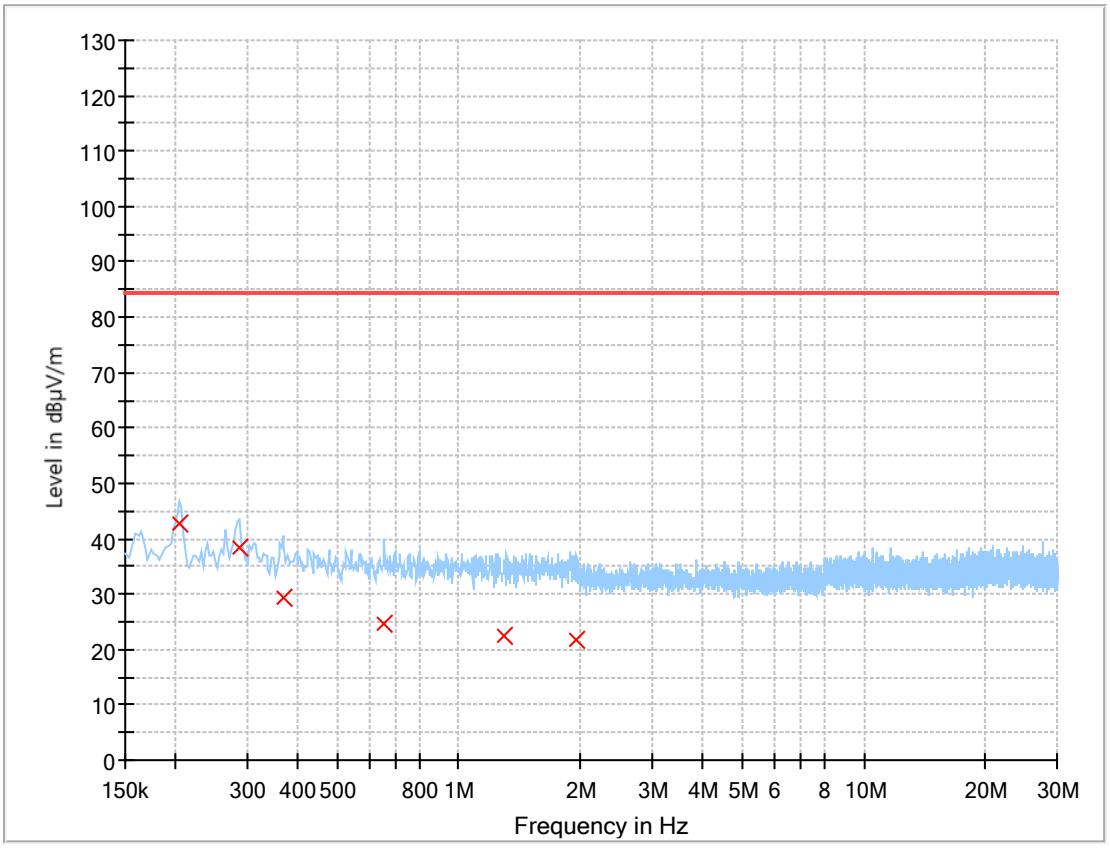
Frequency (㎒)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (㎑)	Pol	Azimuth (deg)	Corr. (dB)
0.216	49.95	84.23	34.28	15 000.0	9.000	H	329.0	20.2
0.305	44.76	84.23	39.47	15 000.0	9.000	H	305.0	20.2
0.392	35.01	84.23	49.22	15 000.0	9.000	H	305.0	20.2
1.022	23.00	84.23	61.23	15 000.0	9.000	H	318.0	20.2
3.517	20.84	84.23	63.39	15 000.0	9.000	H	196.0	20.4
8.233	19.93	84.23	64.30	15 000.0	9.000	H	184.0	20.2



Final_Result

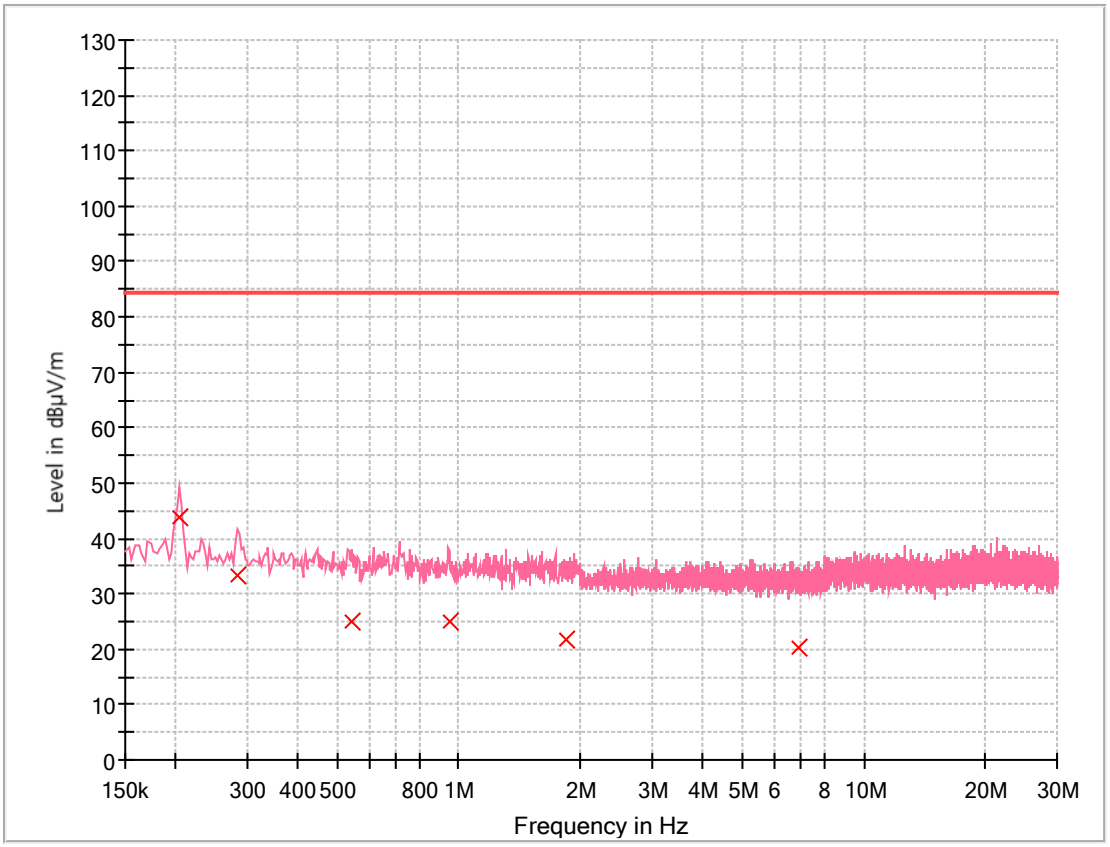
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.216	43.21	84.23	41.02	15 000.0	9.000	V	43.0	20.2
0.305	39.68	84.23	44.55	15 000.0	9.000	V	56.0	20.2
0.654	27.88	84.23	56.35	15 000.0	9.000	V	115.0	20.2
2.565	21.15	84.23	63.08	15 000.0	9.000	V	335.0	20.4
8.117	19.97	84.23	64.26	15 000.0	9.000	V	68.0	20.2
18.215	20.08	84.23	64.15	15 000.0	9.000	V	91.0	20.4

2) 208 V Left Front Cooking Zone Boost Operating Mode



Final_Result

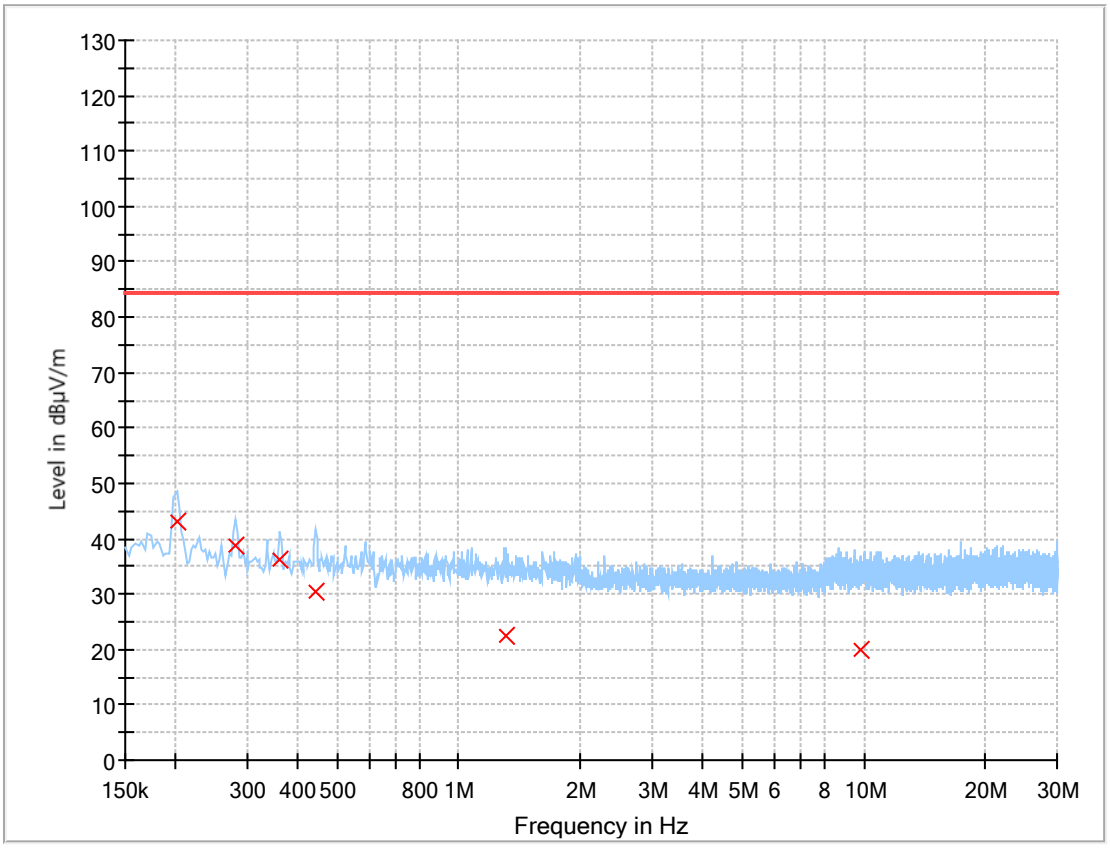
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.204	42.73	84.23	41.50	15 000.0	9.000	H	345.0	20.2
0.287	38.27	84.23	45.96	15 000.0	9.000	H	345.0	20.3
0.368	29.49	84.23	54.74	15 000.0	9.000	H	0.0	20.2
0.654	24.50	84.23	59.73	15 000.0	9.000	H	0.0	20.2
1.299	22.40	84.23	61.83	15 000.0	9.000	H	139.0	20.2
1.956	21.59	84.23	62.64	15 000.0	9.000	H	0.0	20.3



Final_Result

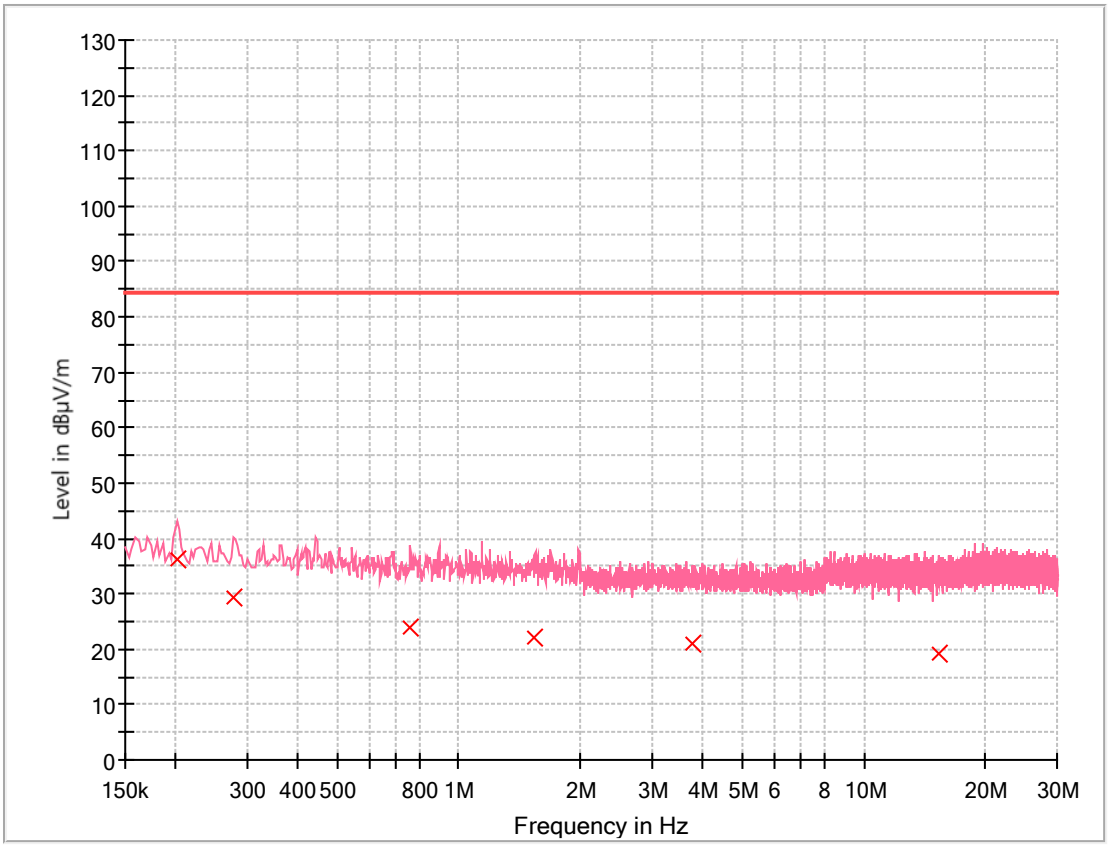
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.204	43.92	84.23	40.31	15 000.0	9.000	V	270.0	20.2
0.284	33.40	84.23	50.83	15 000.0	9.000	V	55.0	20.3
0.544	24.94	84.23	59.29	15 000.0	9.000	V	198.0	20.2
0.947	24.87	84.23	59.36	15 000.0	9.000	V	7.0	20.2
1.845	21.86	84.23	62.37	15 000.0	9.000	V	307.0	20.3
6.929	20.31	84.23	63.92	15 000.0	9.000	V	307.0	20.3

3) 208 V Right Front Cooking Zone Boost Operating Mode



Final_Result

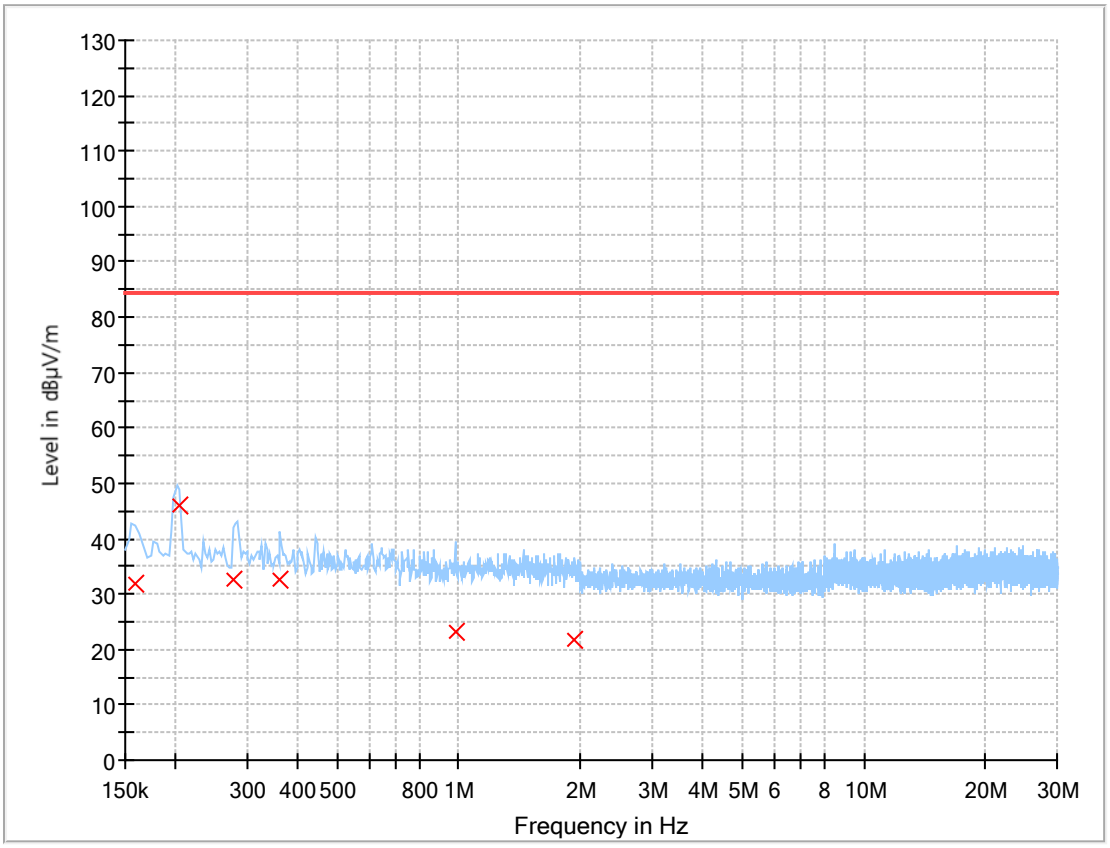
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.201	42.97	84.23	41.26	15 000.0	9.000	H	225.0	20.2
0.281	38.90	84.23	45.33	15 000.0	9.000	H	31.0	20.3
0.362	36.06	84.23	48.17	15 000.0	9.000	H	43.0	20.2
0.443	30.30	84.23	53.93	15 000.0	9.000	H	0.0	20.2
1.308	22.35	84.23	61.88	15 000.0	9.000	H	0.0	20.2
9.789	19.74	84.23	64.49	15 000.0	9.000	H	113.0	20.2



Final_Result

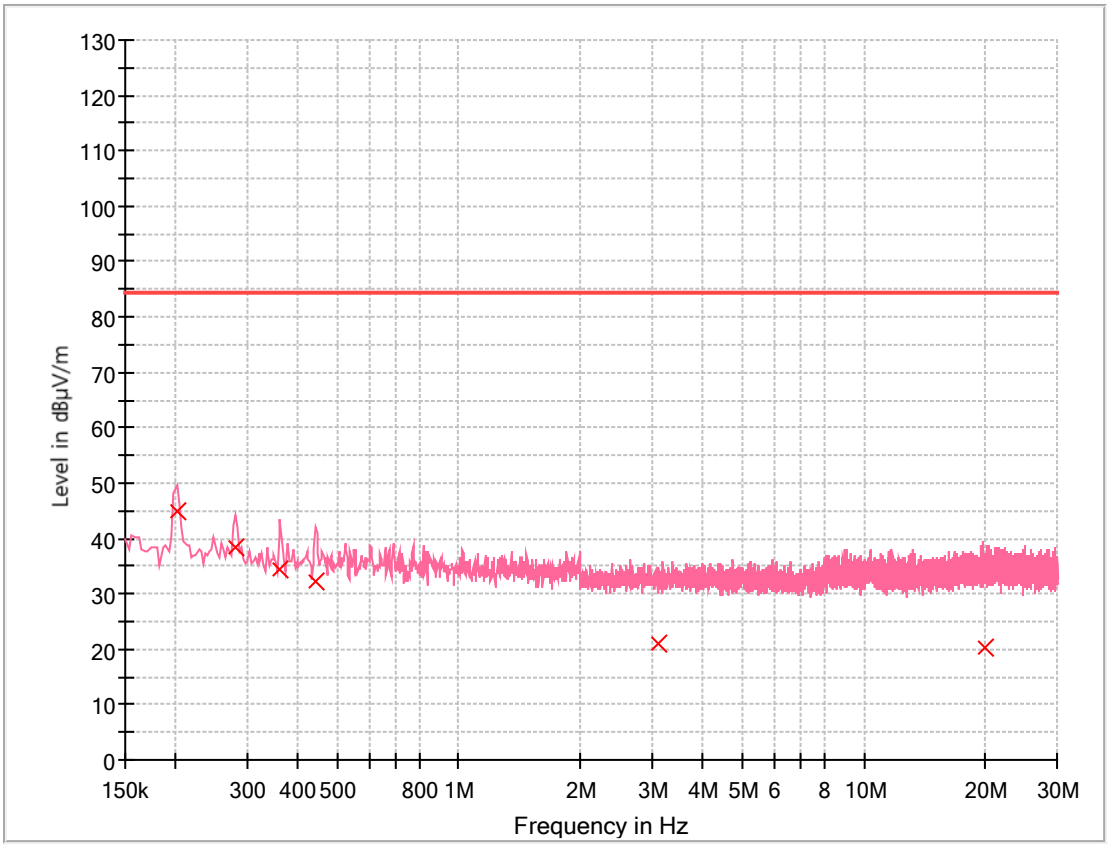
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.201	36.32	84.23	47.91	15 000.0	9.000	V	237.0	20.2
0.278	29.47	84.23	54.76	15 000.0	9.000	V	127.0	20.3
0.759	23.94	84.23	60.29	15 000.0	9.000	V	248.0	20.2
1.541	22.09	84.23	62.14	15 000.0	9.000	V	261.0	20.3
3.771	20.96	84.23	63.27	15 000.0	9.000	V	80.0	20.4
15.356	19.36	84.23	64.87	15 000.0	9.000	V	188.0	19.8

4) 208 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

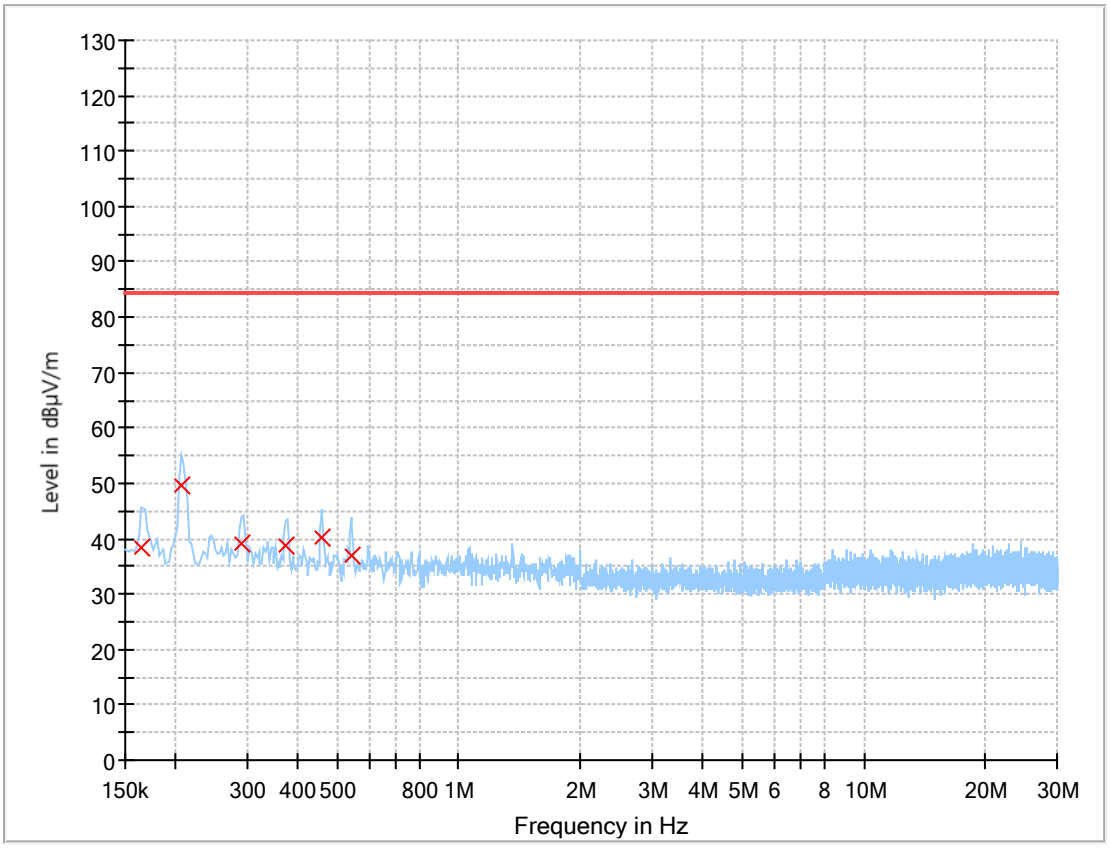
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.159	31.71	84.23	52.52	15 000.0	9.000	H	54.0	20.2
0.204	46.12	84.23	38.11	15 000.0	9.000	H	16.0	20.2
0.278	32.71	84.23	51.52	15 000.0	9.000	H	0.0	20.3
0.362	32.44	84.23	51.79	15 000.0	9.000	H	163.0	20.2
0.980	23.00	84.23	61.23	15 000.0	9.000	H	42.0	20.2
1.935	21.58	84.23	62.65	15 000.0	9.000	H	175.0	20.3



Final_Result

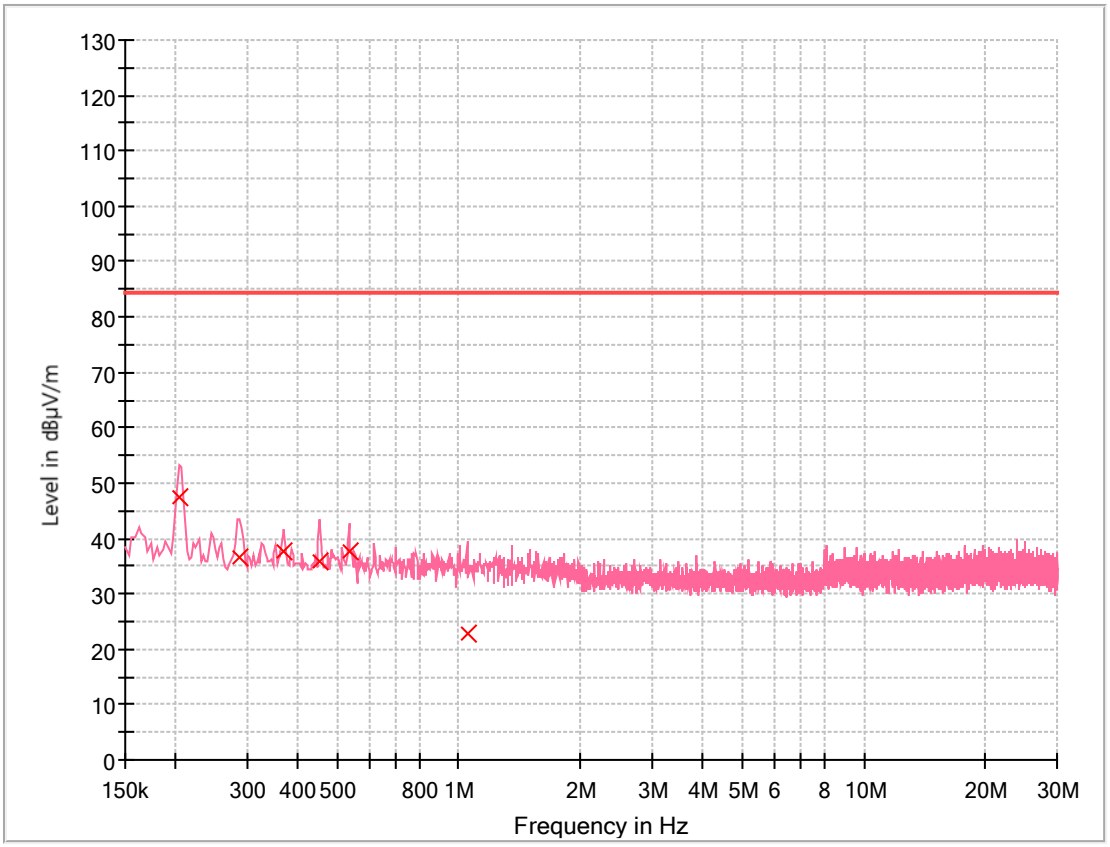
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.201	44.81	84.23	39.42	15 000.0	9.000	V	261.0	20.2
0.281	38.43	84.23	45.80	15 000.0	9.000	V	55.0	20.3
0.362	34.41	84.23	49.82	15 000.0	9.000	V	55.0	20.2
0.443	32.31	84.23	51.92	15 000.0	9.000	V	55.0	20.2
3.099	20.85	84.23	63.38	15 000.0	9.000	V	211.0	20.4
19.878	20.32	84.23	63.91	15 000.0	9.000	V	139.0	20.8

5) 208 V Center Cooking Zone Boost Operating Mode



Final_Result

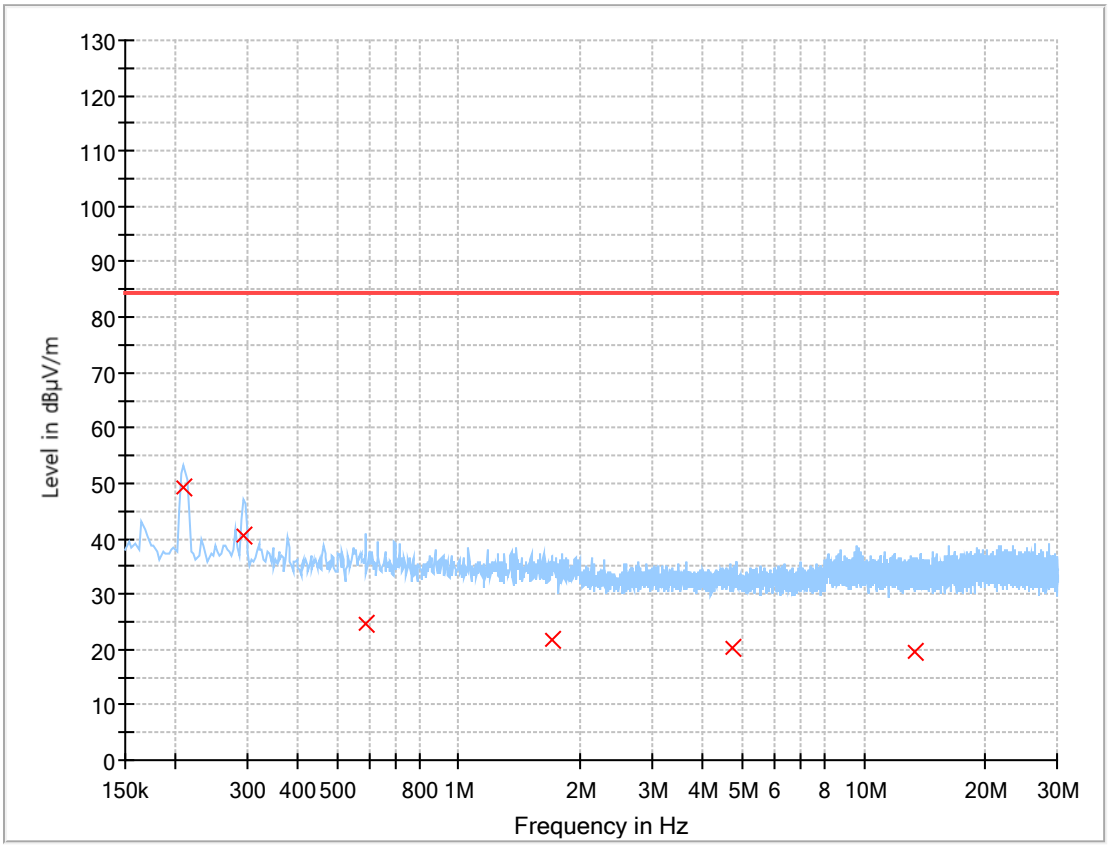
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.165	38.31	84.23	45.92	15 000.0	9.000	H	6.0	20.2
0.207	49.43	84.23	34.80	15 000.0	9.000	H	0.0	20.2
0.290	39.25	84.23	44.98	15 000.0	9.000	H	152.0	20.3
0.374	38.66	84.23	45.57	15 000.0	9.000	H	347.0	20.2
0.460	40.02	84.23	44.21	15 000.0	9.000	H	0.0	20.2
0.541	36.77	84.23	47.46	15 000.0	9.000	H	6.0	20.2



Final_Result

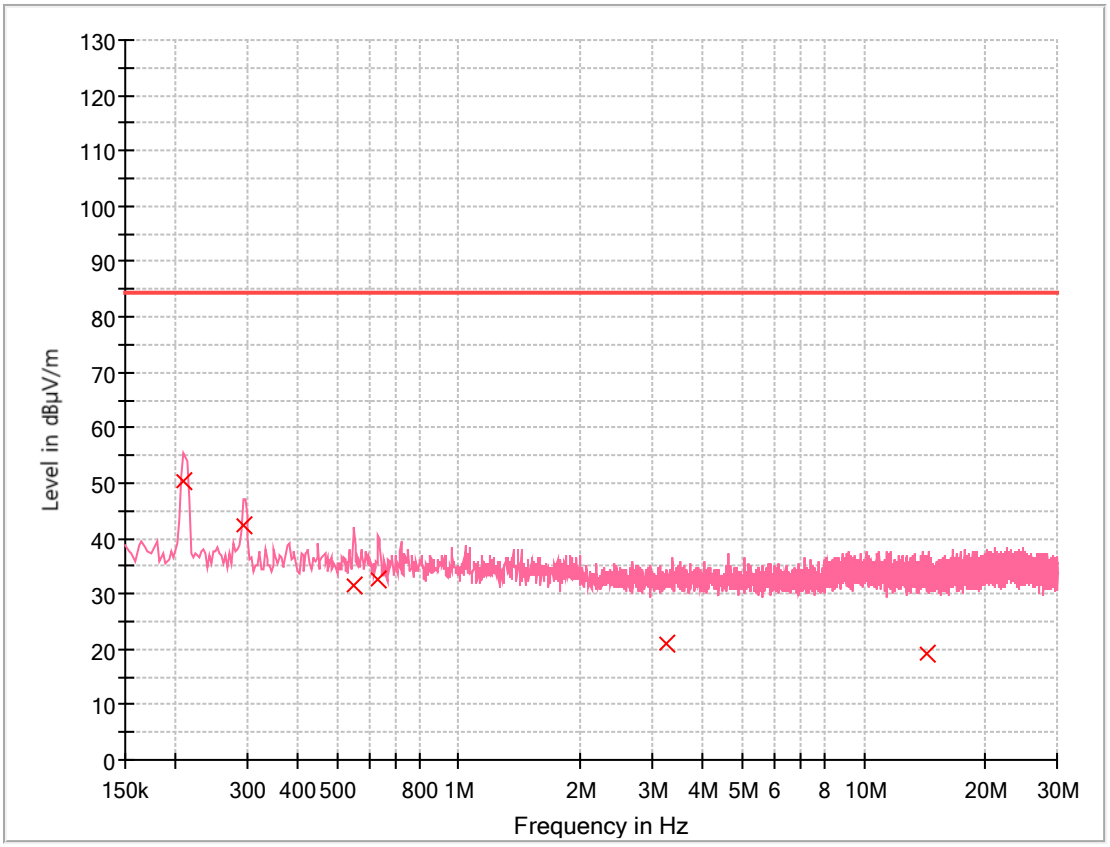
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.204	47.39	84.23	36.84	15 000.0	9.000	V	77.0	20.2
0.287	36.59	84.23	47.64	15 000.0	9.000	V	310.0	20.3
0.371	37.82	84.23	46.41	15 000.0	9.000	V	297.0	20.2
0.454	35.91	84.23	48.32	15 000.0	9.000	V	246.0	20.2
0.535	37.51	84.23	46.72	15 000.0	9.000	V	77.0	20.2
1.048	22.86	84.23	61.37	15 000.0	9.000	V	334.0	20.2

6) 240 V Left Rear Cooking Zone Boost Operating Mode



Final_Result

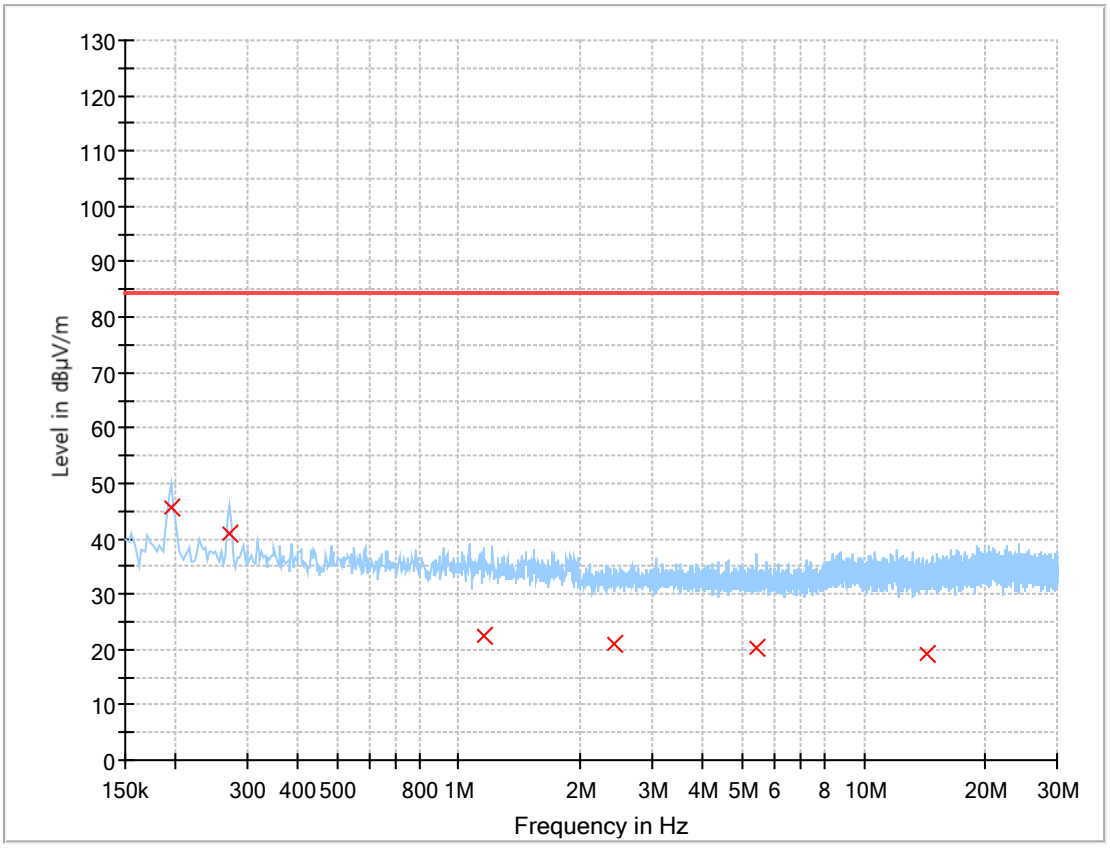
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.210	49.34	84.23	34.89	15 000.0	9.000	H	32.0	20.2
0.293	40.44	84.23	43.79	15 000.0	9.000	H	8.0	20.3
0.589	24.80	84.23	59.43	15 000.0	9.000	H	128.0	20.2
1.705	21.78	84.23	62.45	15 000.0	9.000	H	152.0	20.3
4.726	20.36	84.23	63.87	15 000.0	9.000	H	273.0	20.4
13.406	19.56	84.23	64.67	15 000.0	9.000	H	310.0	19.8



Final_Result

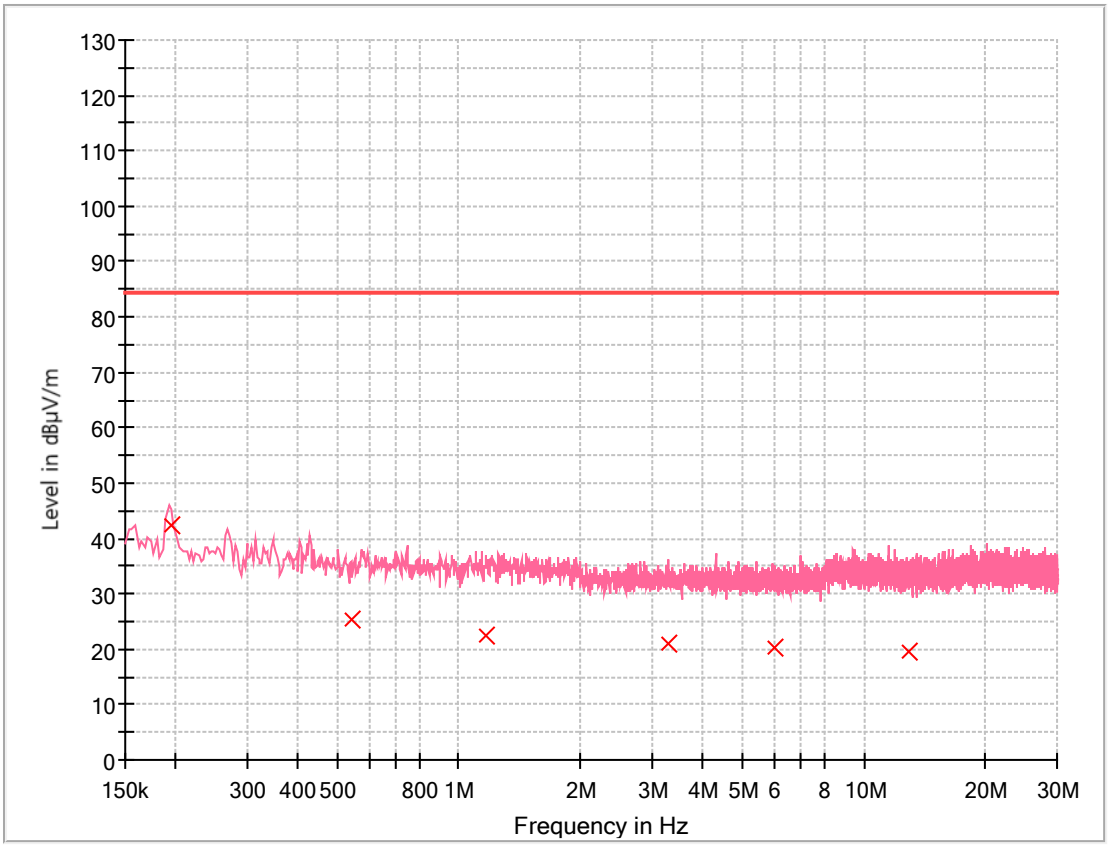
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.210	50.45	84.23	33.78	15 000.0	9.000	V	55.0	20.2
0.293	42.42	84.23	41.81	15 000.0	9.000	V	43.0	20.3
0.550	31.43	84.23	52.80	15 000.0	9.000	V	0.0	20.2
0.634	32.48	84.23	51.75	15 000.0	9.000	V	103.0	20.2
3.248	20.94	84.23	63.29	15 000.0	9.000	V	0.0	20.4
14.374	19.37	84.23	64.86	15 000.0	9.000	V	0.0	19.7

7) 240 V Left Front Cooking Zone Boost Operating Mode



Final_Result

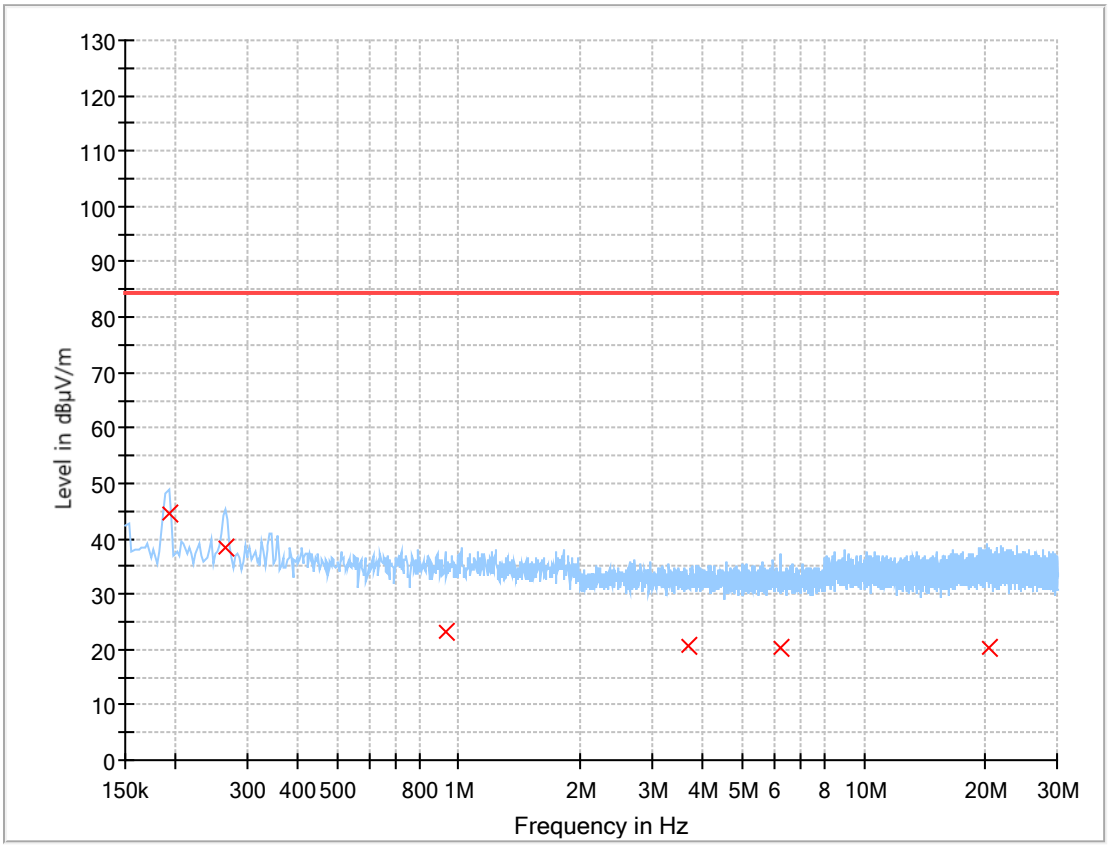
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.195	45.53	84.23	38.70	15 000.0	9.000	H	322.0	20.2
0.272	41.03	84.23	43.20	15 000.0	9.000	H	322.0	20.3
1.153	22.60	84.23	61.63	15 000.0	9.000	H	42.0	20.2
2.425	21.13	84.23	63.10	15 000.0	9.000	H	54.0	20.4
5.404	20.24	84.23	63.99	15 000.0	9.000	H	0.0	20.3
14.242	19.36	84.23	64.87	15 000.0	9.000	H	79.0	19.7



Final_Result

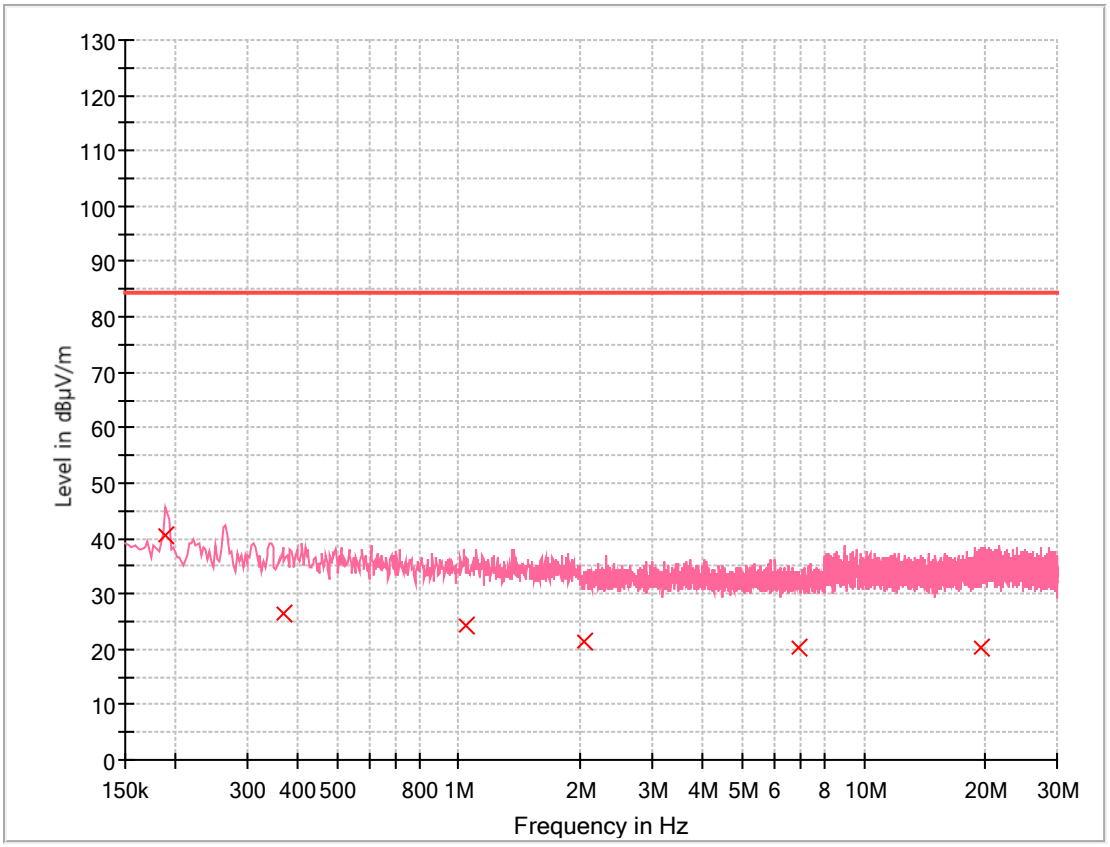
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.195	42.41	84.23	41.82	15 000.0	9.000	V	5.0	20.2
0.541	25.30	84.23	58.93	15 000.0	9.000	V	137.0	20.2
1.168	22.61	84.23	61.62	15 000.0	9.000	V	335.0	20.2
3.284	20.96	84.23	63.27	15 000.0	9.000	V	208.0	20.4
6.027	20.18	84.23	64.05	15 000.0	9.000	V	347.0	20.3
12.866	19.49	84.23	64.74	15 000.0	9.000	V	0.0	19.9

8) 240 V Right Front Cooking Zone Boost Operating Mode



Final_Result

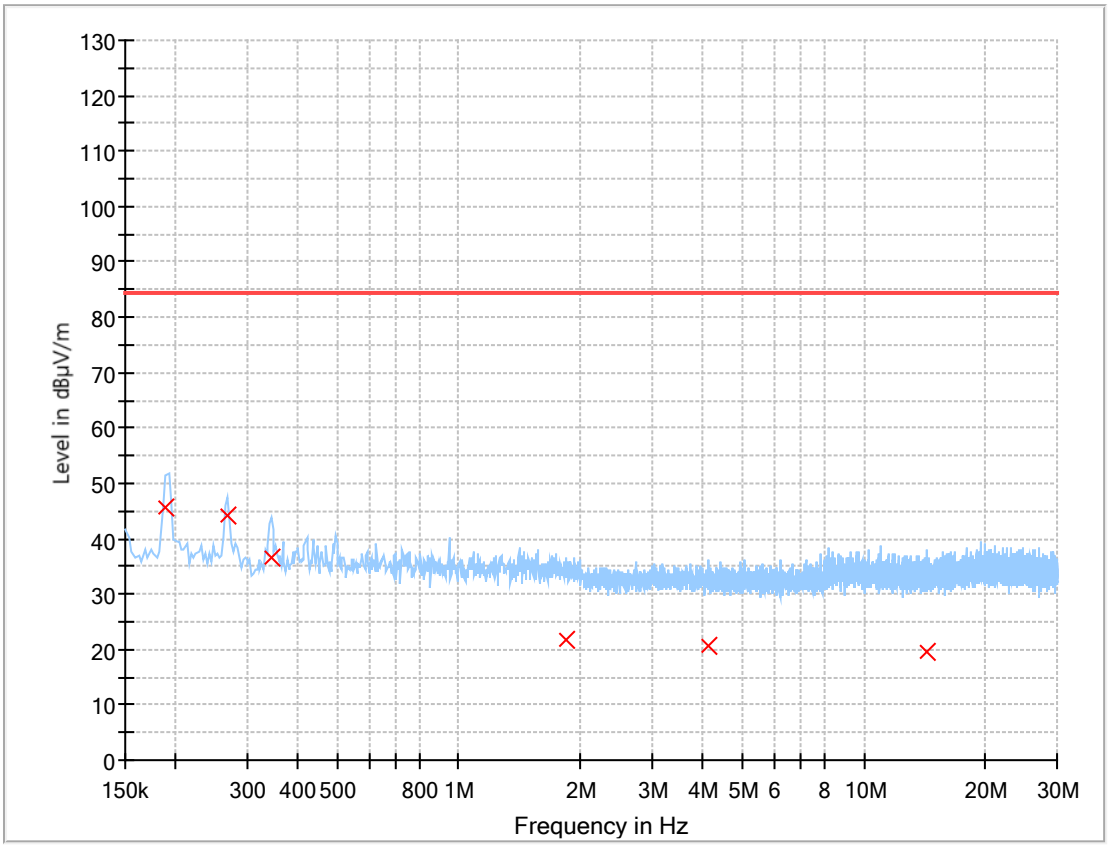
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.192	44.61	84.23	39.62	15 000.0	9.000	H	0.0	20.2
0.266	38.36	84.23	45.87	15 000.0	9.000	H	0.0	20.2
0.926	23.21	84.23	61.02	15 000.0	9.000	H	27.0	20.2
3.687	20.75	84.23	63.48	15 000.0	9.000	H	100.0	20.4
6.260	20.17	84.23	64.06	15 000.0	9.000	H	27.0	20.3
20.427	20.35	84.23	63.88	15 000.0	9.000	H	0.0	20.8



Final_Result

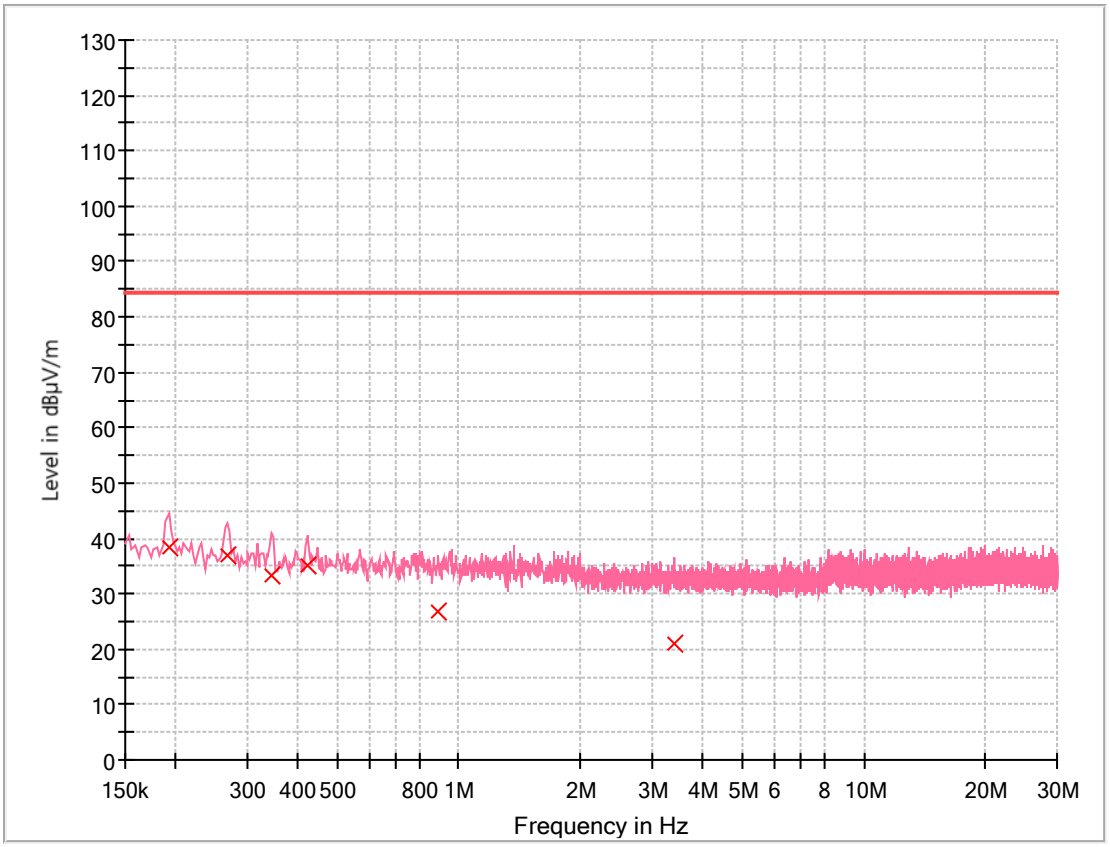
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.189	40.61	84.23	43.62	15 000.0	9.000	V	236.0	20.2
0.368	26.40	84.23	57.83	15 000.0	9.000	V	19.0	20.2
1.037	24.14	84.23	60.09	15 000.0	9.000	V	7.0	20.2
2.028	21.49	84.23	62.74	15 000.0	9.000	V	176.0	20.3
6.890	20.27	84.23	63.96	15 000.0	9.000	V	0.0	20.3
19.445	20.37	84.23	63.86	15 000.0	9.000	V	0.0	20.7

9) 240 V Right Rear Cooking Zone Boost Operating Mode



Final_Result

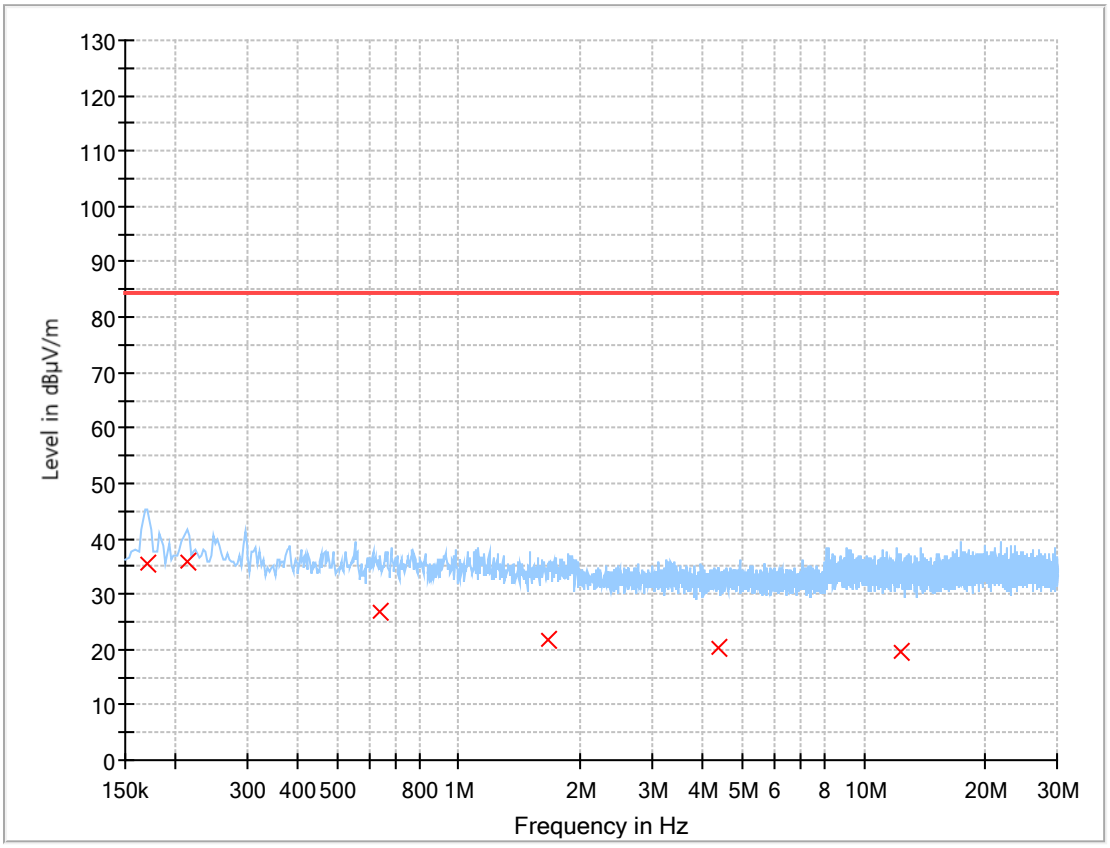
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.189	45.54	84.23	38.69	15 000.0	9.000	H	7.0	20.2
0.269	44.34	84.23	39.89	15 000.0	9.000	H	7.0	20.3
0.344	36.62	84.23	47.61	15 000.0	9.000	H	0.0	20.2
1.842	21.65	84.23	62.58	15 000.0	9.000	H	0.0	20.3
4.147	20.55	84.23	63.68	15 000.0	9.000	H	67.0	20.4
14.230	19.39	84.23	64.84	15 000.0	9.000	H	19.0	19.7



Final_Result

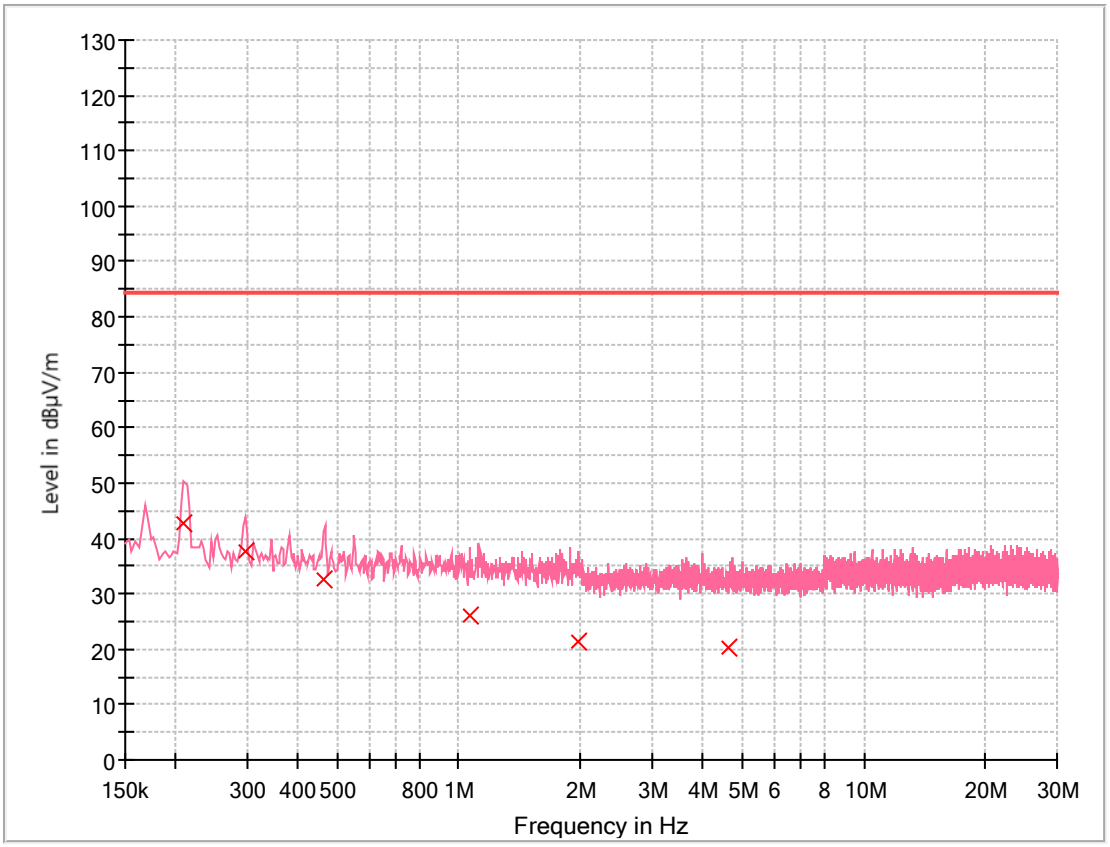
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.192	38.21	84.23	46.02	15 000.0	9.000	V	224.0	20.2
0.269	36.79	84.23	47.44	15 000.0	9.000	V	67.0	20.3
0.344	33.17	84.23	51.06	15 000.0	9.000	V	43.0	20.2
0.425	35.00	84.23	49.23	15 000.0	9.000	V	19.0	20.2
0.890	26.84	84.23	57.39	15 000.0	9.000	V	0.0	20.2
3.407	20.92	84.23	63.31	15 000.0	9.000	V	102.0	20.4

10) 240 V Center Cooking Zone Operating Mode



Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.171	35.64	84.23	48.59	15 000.0	9.000	H	322.0	20.2
0.213	35.99	84.23	48.24	15 000.0	9.000	H	18.0	20.2
0.640	26.74	84.23	57.49	15 000.0	9.000	H	311.0	20.2
1.654	21.84	84.23	62.39	15 000.0	9.000	H	91.0	20.3
4.359	20.45	84.23	63.78	15 000.0	9.000	H	298.0	20.4
12.302	19.56	84.23	64.67	15 000.0	9.000	H	335.0	19.9



Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.210	42.76	84.23	41.47	15 000.0	9.000	V	18.0	20.2
0.296	37.71	84.23	46.52	15 000.0	9.000	V	213.0	20.3
0.463	32.67	84.23	51.56	15 000.0	9.000	V	54.0	20.2
1.066	25.93	84.23	58.30	15 000.0	9.000	V	189.0	20.2
1.980	21.47	84.23	62.76	15 000.0	9.000	V	0.0	20.3
4.636	20.45	84.23	63.78	15 000.0	9.000	V	141.0	20.4

Measurement Uncertainty: See Appendix A

Note: • AF = Antenna Factor • CL = Cable Loss • Margin = Limit – Average
• POL H = Horizontal • POL V = Vertical • H = Height

Ex) In case

Freq ; 100 ㎒, level ; 30 ㏈(㎶/m), AF ; 10 ㏈/m, CL ; 4 ㏈

Result = Level + AF + CL
= 30 + 10 + 4
= 19

Margin = Limit – Result
= 73.14 – 19
= 54.14

Appendix A : Measurement Uncertainty

- Giheung Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission		ENV216	3.7 dB (The confidential level is 95 %, *k*=2)
		ESH2-Z5	3.2 dB (The confidential level is 95 %, *k*=2)
		ESH3-Z6	3.2 dB (The confidential level is 95 %, *k*=2)
		NNLK8129	3.1 dB (The confidential level is 95 %, *k*=2)
Conducted Emission - Signal		ISN T800	5.4 dB (The confidential level is 95 %, *k*=2)
		ISN ST08	6.6 dB (The confidential level is 95 %, *k*=2)
Discontinuous		2.7 dB (The confidential level is 95 %, *k*=2)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.3 dB (The confidential level is 95 %, *k*=2)
		Vertical	3.3 dB (The confidential level is 95 %, *k*=2)
	30 MHz ~ 1 000 MHz	Horizontal	4.3 dB (The confidential level is 95 %, *k*=2)
		Vertical	4.6 dB (The confidential level is 95 %, *k*=2)
	1 GHz ~ 18 GHz	Horizontal	3.9 dB (The confidential level is 95 %, *k*=2)
		Vertical	4.0 dB (The confidential level is 95 %, *k*=2)

- Gunpo Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission		ENV216	4.0 dB (The confidential level is 95 %, *k*=2)
		ESH2-Z5	3.6 dB (The confidential level is 95 %, *k*=2)
		ESH3-Z6	3.8 dB (The confidential level is 95 %, *k*=2)
Conducted Emission - Signal		ISN T800	5.8 dB (The confidential level is 95 %, *k*=2)
		ISNT8-Cat6	5.8 dB (The confidential level is 95 %, *k*=2)
		ISN S751	7.5 dB (The confidential level is 95 %, *k*=2)
Disturbance Voltage at Antenna Terminal		2.9 dB (The confidential level is 95 %, *k*=2)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.4 dB (The confidential level is 95 %, *k*=2)
		Vertical	3.4 dB (The confidential level is 95 %, *k*=2)
	30 MHz ~ 1 000 MHz	Horizontal	4.5 dB (The confidential level is 95 %, *k*=2)
		Vertical	5.1 dB (The confidential level is 95 %, *k*=2)
	1 GHz ~ 18 GHz	Horizontal	3.7 dB (The confidential level is 95 %, *k*=2)
		Vertical	3.9 dB (The confidential level is 95 %, *k*=2)

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Test Method		Measurement Uncertainty	
Conducted Emission		ENV216	3.5 dB (The confidential level is 95 %, *k*=2)
		ESH2-Z5	3.3 dB (The confidential level is 95 %, *k*=2)
		ESH3-Z6	3.3 dB (The confidential level is 95 %, *k*=2)
		NNLK8129	3.4 dB (The confidential level is 95 %, *k*=2)
Conducted Emission - Signal		ISN T800	5.7 dB (The confidential level is 95 %, *k*=2)
		ISN ST08	5.5 dB (The confidential level is 95 %, *k*=2)
Discontinous		2.9 dB (The confidential level is 95 %, *k*=2)	
disturbance Power		3.9 dB (The confidential level is 95 %, *k*=2)	
Radiated Emission	9 kHz ~30 MHz (Triple Loop Ant.)	3.4 dB (The confidential level is 95 %, *k*=2)	
	9 kHz ~30 MHz (Loop Ant.)	Horizontal	3.8 dB (The confidential level is 95 %, *k*=2)
		Vertical	3.8 dB (The confidential level is 95 %, *k*=2)
	30 MHz ~ 1 000 MHz	Horizontal	4.8 dB (The confidential level is 95 %, *k*=2)
		Vertical	5.4 dB (The confidential level is 95 %, *k*=2)
	1 GHz ~ 18 GHz	Horizontal	4.1 dB (The confidential level is 95 %, *k*=2)
		Vertical	4.2 dB (The confidential level is 95 %, *k*=2)

- End of Test Report -