

TEST REPORT

Report Number 190200116SEL-EMC3

Applicant Name/Address Haenim CO.,LTD.
15, Saryeom-ro 21beon-gil, Seo-gu, Incheon, Republic of Korea

Test Sample Description

- Product: Electric UV Sterilizer, UV Sterilizer & Dryer, UV Sanitizer & Dryer

- Model and/or Brand name: HN-04-WG-BLE

- Variant model name.....: See page 4

- Manufacturer Name / Address ..: Haenim CO.,LTD.
15, Saryeom-ro 21beon-gil, Seo-gu, Incheon, Republic of Korea

- Rating(s): AC 120 V, 60 Hz

Receipt of sample(s) 01 Apr. 2019

Date of Test 17 Apr. 2019 ~ 18 Apr. 2019

Test Method(s) FCC Part 15 Subpart B

Test Results & Uncertainty See EMC Results Conclusion

Issue date 24 Apr. 2019

Note 1. The results shown in this test report refer only to the sample(s) tested.

Note 2: This report shall not be reproduced except in full, without the written approval of Intertek.

Note 3: This laboratory is not accredited for the test results marked as *.

Tested by;

Name: Walter Lee
EMC Engineer



Approved by;

Name: Rina Bae
EMC Technical Manager



Intertek ETL SEMKO Korea Ltd.

Except where explicitly agreed in writing, all work and services performed by Intertek is subject to our standard Terms and Conditions which can be obtained at our website: <http://www.intertek.com/terms/>. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk. This report shall not be reproduced, except in full.



SECTION 1 CONTENTS

SECTION 2 EMC Results Conclusion (with Justification).....	3
SECTION 3 Test environment and conditions	3
SECTION 4 EUT Information	4
SECTION 5 TEST CONFIGURATION, Operation mode and SET-UP	5
SECTION 6 EMISSION	6
SECTION 7 Appendix I	21
Photographs of Test Configurations	21
SECTION 8 Appendix II	24
Photographs of EUT.....	24



SECTION 2 EMC RESULTS CONCLUSION (WITH JUSTIFICATION)

We tested the Electric UV Sterilizer, UV Sterilizer & Dryer, UV Sanitizer & Dryer, Model: HN-04-WG-BLE, to determine if it was in compliance with the relevant US standards as marked on the test report.

We found that the unit met the requirement of FCC Part 15 Subpart B standards when tested as received.

Test Items	Applied Standards	Results			
		Comply	Not Comply	N/A	See Note
Disturbance Voltage	FCC Part 15 Subpart B	☒	☐	☐	☒
Radiated disturbance (Below 1 GHz)	FCC Part 15 Subpart B	☒	☐	☐	☒
Radiated disturbance (Above 1 GHz)	FCC Part 15 Subpart B	☒	☐	☐	☒

Note 1) When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Measurement Uncertainty

Conducted Emission	150 kHz – 30 MHz	$U = 3.3$ [dB]
	(Confidence level approximately 95 %, $k = 2$)	
Radiated Emissions	9 kHz – 30 MHz	$U = 4.5$ [dB]
	30 MHz – 1 000 MHz	Horizontal: $U = 4.3$ [dB] Vertical: $U = 4.6$ [dB]
	1 GHz – 6 GHz	Horizontal: $U = 5.7$ [dB] Vertical: $U = 5.7$ [dB]
	6 GHz – 18 GHz	Horizontal: $U = 5.7$ [dB] Vertical: $U = 5.8$ [dB]
	Confidence level approximately 95 %, $k = 2$)	

SECTION 3 TEST ENVIRONMENT AND CONDITIONS

Test Environment

Test Item	Test Site	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)	Pressure (kPa)
Disturbance Voltage	Shielded Room #2	04-18	21.7 ± 2.0	31.2 ± 2.0	
Radiated disturbance (Below 1 GHz)	10 m chamber	04-17	21.7 ± 2.0	33.0 ± 2.0	-
Radiated disturbance (Above 1 GHz)	10 m chamber	04-17	21.7 ± 2.0	33.0 ± 2.0	



SECTION 4 EUT INFORMATION

Equipment Under Test (EUT):	Electric UV Sterilizer, UV Sterilizer & Dryer, UV Sanitizer & Dryer
Model:	HN-04-WG-BLE
Variant Model:	HN-04-WM-BLE, HN-04-WB-BLE, HN-04-WS-BLE, HN-04-WGN-BLE, HN-04-WP-BLE, HN-04-WBL-BLE, HN-04-WGY-BLE, HN-04-BM-BLE, HN-04-BG-BLE, HN-04-BB-BLE, HN-04-BS-BLE, HN-04-BGN-BLE, HN-04-BP-BLE, HN-04-BBL-BLE, HN-04-BGY-BLE, HN-04-GM-BLE, HN-04-GG-BLE, HN-04-GB-BLE, HN-04-GS-BLE, HN-04-GGN-BLE, HN-04-GP-BLE, HN-04-GBL-BLE, HN-04-GGY-BLE, HN-04-SWM-BLE, HN-04-SWG-BLE, HN-04-SWB-BLE, HN-04-SWS-BLE, HN-04-SWGN-BLE, HN-04-SWP-BLE, HN-04-SWBL-BLE, HN-04-SWGY-BLE
Serial No.:	-
Rated Voltage:	AC 120 V, 60 Hz
Internal clock frequency:	11.0592 MHz
Maximum clock frequency:	2 480 MHz
Variant model information:	The basic model and variant models have the same electrical circuit, structure and performance, only the difference in model name according to appearance colors.

HN – 04 -- (1) (2) -BLE

(1) : Body Color

W : WHITE, B : BLACK, G : GRAY , SW : SHINY

(2) : Handle Color

M : METAL, G : GOLD , B : BLACK , S : SILVER ,
GN : GREEN , P : PINK , BL : BLUE , GY : GRAY



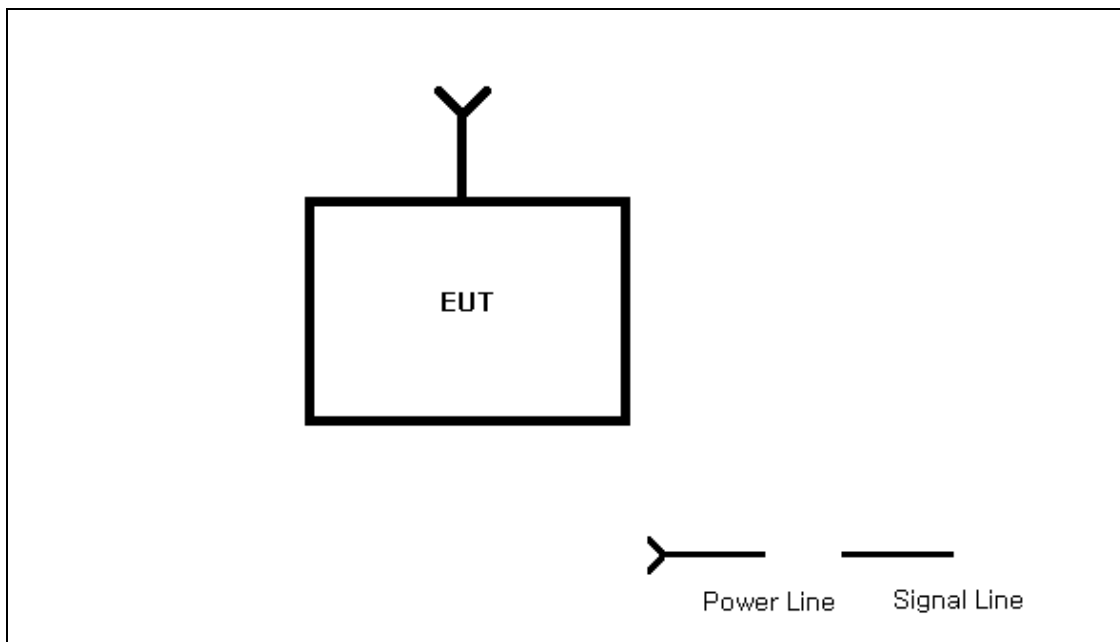
SECTION 5 TEST CONFIGURATION, OPERATION MODE AND SET-UP

Equipment	Model No.	Serial No.	Manufacturer	Connect type	CABLE Length (m)	Shield
Electric UV Sterilizer, UV Sterilizer & Dryer, UV Sanitizer & Dryer	HN-04-WG-BLE	-	Haenim CO.,LTD.	AC IN	1.7	Unshielded

Test Operation Mode

1. Auto + Smart + DRY Mode : A state in which the Auto + Smart mode and bottle DRY is continuously operated.
2. Turbo + Smart + DRY Mode : A state in which the Turbo + Smart mode and bottle DRY is continuously operated.
3. UV + Storage Mode : A state in which the UV + Storage mode is continuously operated.

Test Setup





SECTION 6 EMISSION

Radiated disturbance test

Test Method and Summary

Test standard: FCC Part 15 Subpart B

Used Test Equipment

Control No.	Equipment	Manufacturer	Model No.	Serial No.	Next Cal.	Cal Int.
EMC001	EMI Test Receiver	R & S	ESU40	100478	2020.01.03	1Y
EMC002	EMI Test Receiver	R & S	ESU26	100590	2020.01.04	1Y
EMC025	Biconilog (Type7)	ETS-Lindgren	3142E	00203547	2021.02.25	2Y
EMC075	AMP	R & S	SCU-08	100737	2020.01.04	1Y
EMC028	DRG Horn (Medium)	ETS-Lindgren	3117	00201915	2021.01.29	2Y
EMC077	AMP	R & S	SCU-18D	1952128	2019.06.26	1Y

Operating Environment

Test Voltage: AC 120 V, 60 Hz

Test Setup and Procedure

The EUT along with its peripherals were placed on a non-conducted table with a height of 0.8 m in height table above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 m to 4 m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For measurements above 1 GHz, place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal.

The final measurement antenna elevation shall be that which maximizes the emissions.

**Limits**

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance) Quasi-peak (dBμV/m)	Class B Equipment (3 m distance) Quasi-peak (dBμV/m)
30 to 88	39.0	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1) The lower limit shall apply at the transition frequency.

Note 2) Additional provisions may be required for cases where interference occurs.

Note 3) According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards (CISPR), Pub. 22 shown as below.

Note 4) Result (dBμV/m) = Reading (dBμV) + Corr. (Ant. Factor (dB/m) + Cable Loss (dB) – Amp. Gain (dB))

Result: QuasiPeak, Reading: Receiver reading value, Corr.: Correction Factor

Margin = Limit – Result

Frequency range (MHz)	Class A Equipment (10 m distance) Quasi-peak (dBμV/m)	Class B Equipment (10 m distance) Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000 MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note 1) Result (dBμV/m) = Reading (dBμV) + Corr. (Ant. Factor (dB/m) + Cable Loss (dB) – Amp. Gain (dB))

Result: Final value, Reading: Receiver reading value, Corr.: Correction Factor

Margin = Limit – Result

Note 2) If measured at a distance other than 3 m, apply the following formula to compensate the measured value.

$E_m = E_{dm} + 20 \cdot \log(d/3)$ (d: Measured distance)

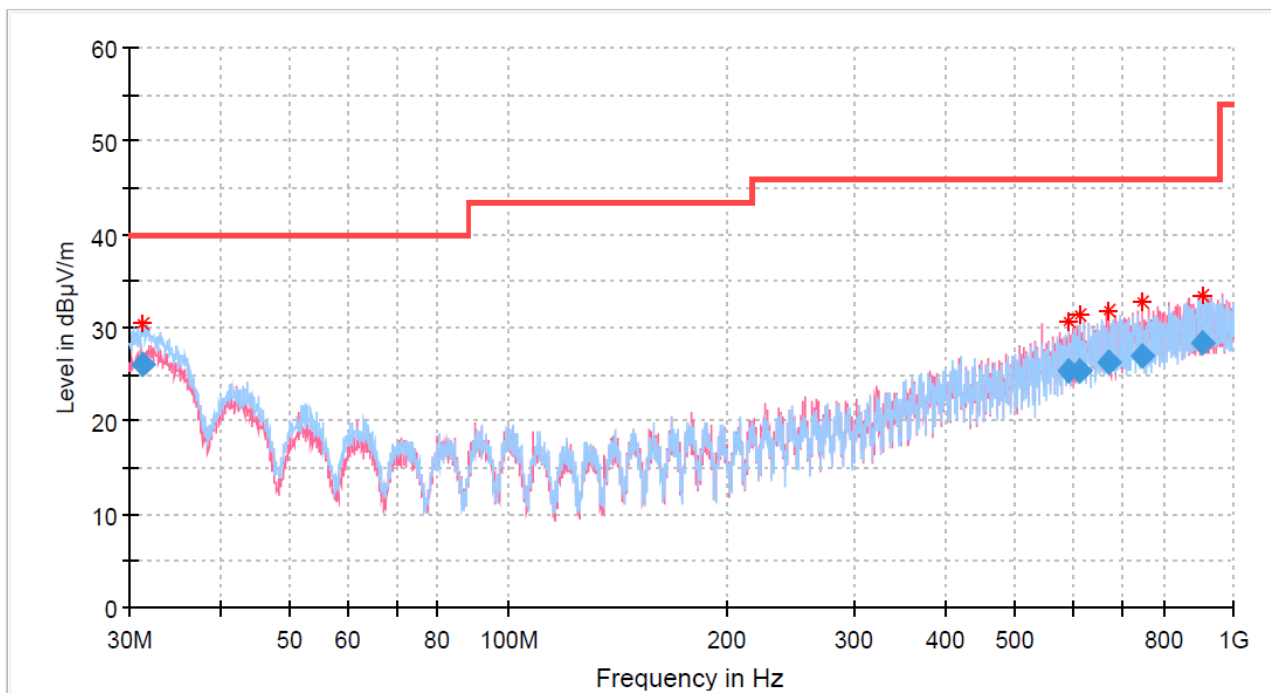
E_m : Result of measured distance correction, E_{dm} : Measured value



Test Data

[Below 1 GHz]

[Auto + Smart + DRY Mode]

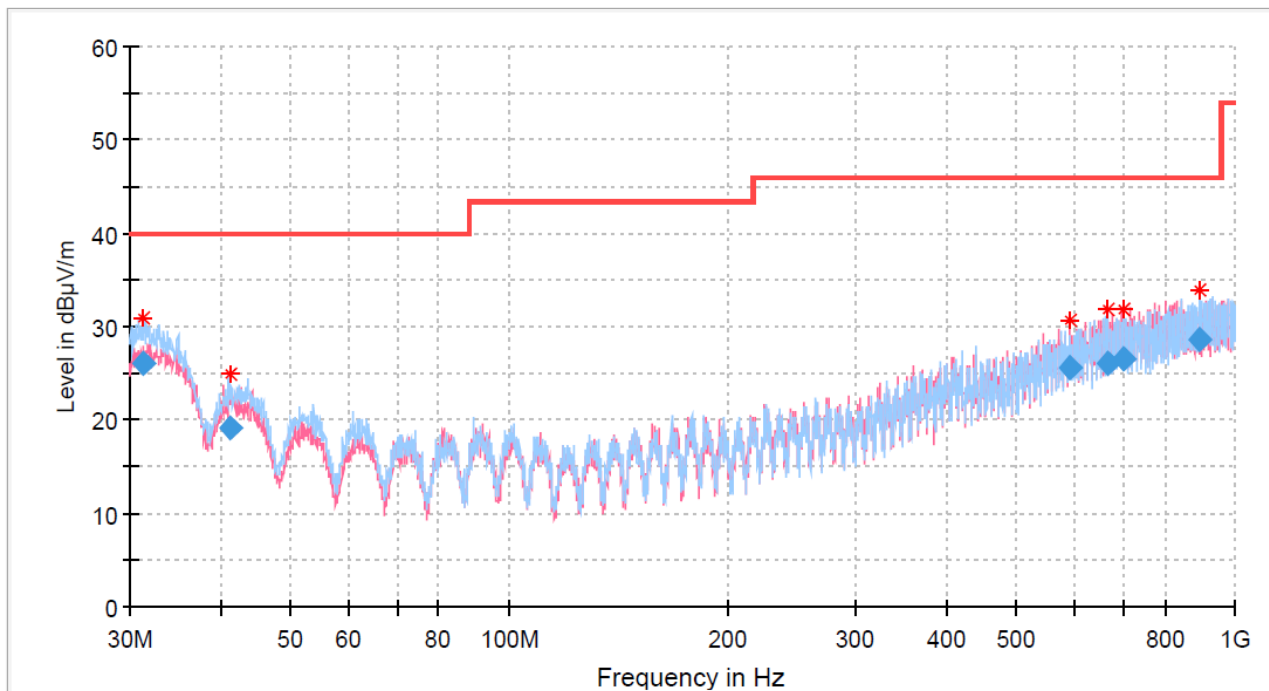


Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.377625	25.99	40.00	14.01	120.000	300.0	H	35.0	-12.5
592.741125	25.32	46.00	20.68	120.000	200.0	H	214.0	-5.0
612.875750	25.43	46.00	20.57	120.000	300.0	H	122.0	-4.7
671.457000	26.38	46.00	19.62	120.000	400.0	V	0.0	-3.4
748.833938	27.04	46.00	18.96	120.000	400.0	V	201.0	-2.4
908.616563	28.50	46.00	17.50	120.000	400.0	H	26.0	-0.7



[Turbo + Smart + DRY Mode]

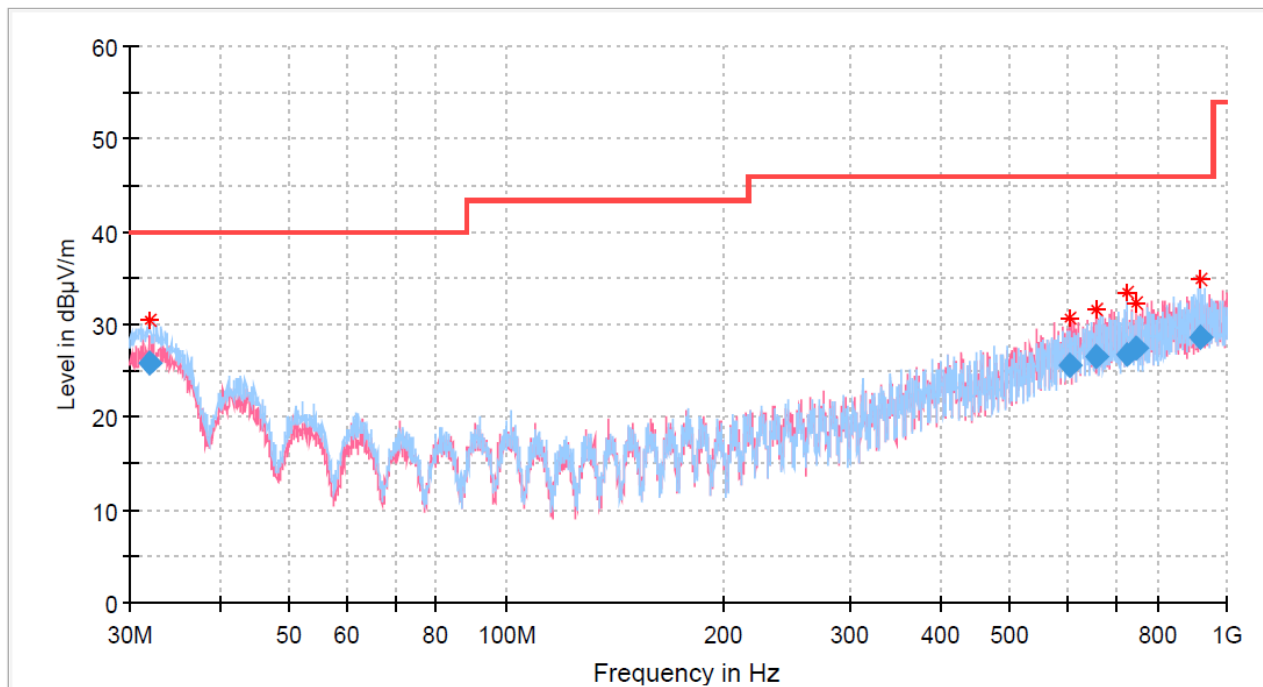


Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.348375	26.00	40.00	14.00	120.000	400.0	H	49.0	-12.5
41.179438	19.16	40.00	20.84	120.000	200.0	H	336.0	-18.2
592.565125	25.54	46.00	20.46	120.000	300.0	V	200.0	-4.8
668.474625	26.13	46.00	19.87	120.000	200.0	H	257.0	-3.7
700.105500	26.58	46.00	19.42	120.000	300.0	H	0.0	-3.2
891.067188	28.59	46.00	17.41	120.000	200.0	H	200.0	-1.0



[UV + Storage Mode]



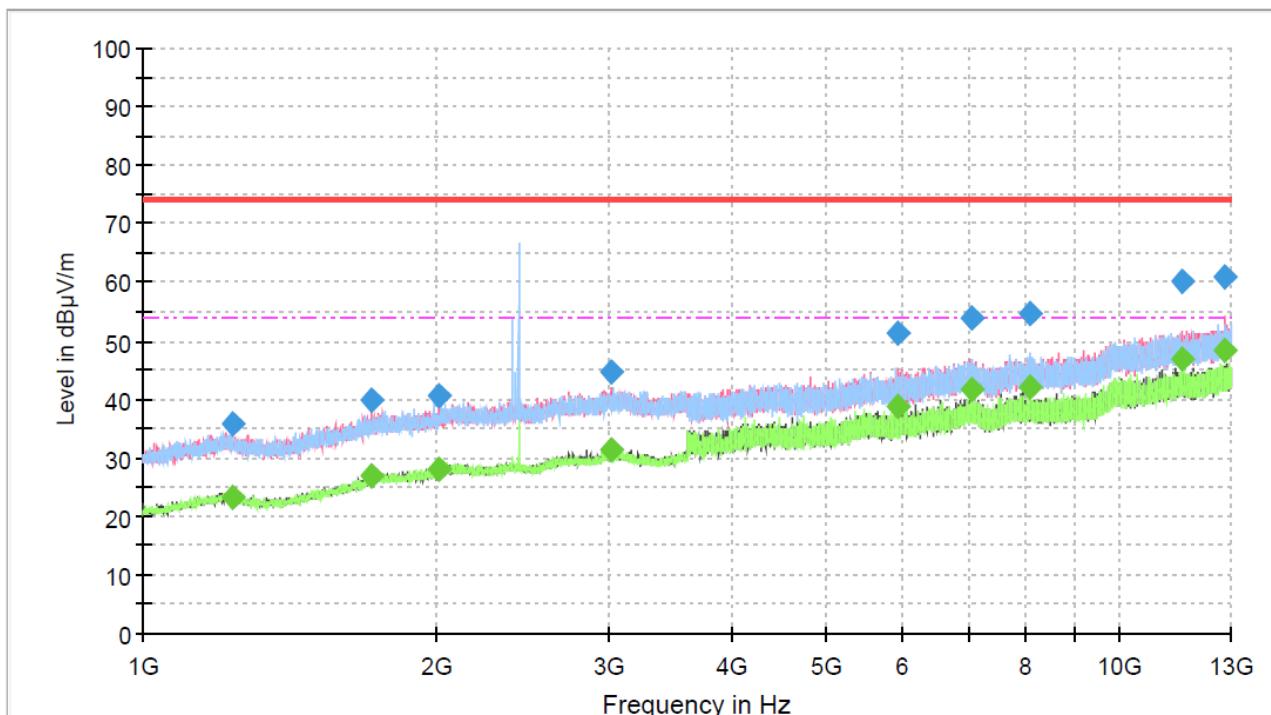
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.034250	25.94	40.00	14.06	120.000	300.0	H	350.0	-12.9
602.975625	25.65	46.00	20.35	120.000	200.0	V	90.0	-4.6
659.749438	26.46	46.00	19.54	120.000	200.0	V	272.0	-3.6
727.947000	26.83	46.00	19.17	120.000	300.0	H	15.0	-3.0
746.757938	27.42	46.00	18.58	120.000	400.0	V	291.0	-2.5
919.576000	28.72	46.00	17.28	120.000	300.0	H	49.0	-0.7



[Above 1 GHz]

[Auto + Smart + DRY Mode]



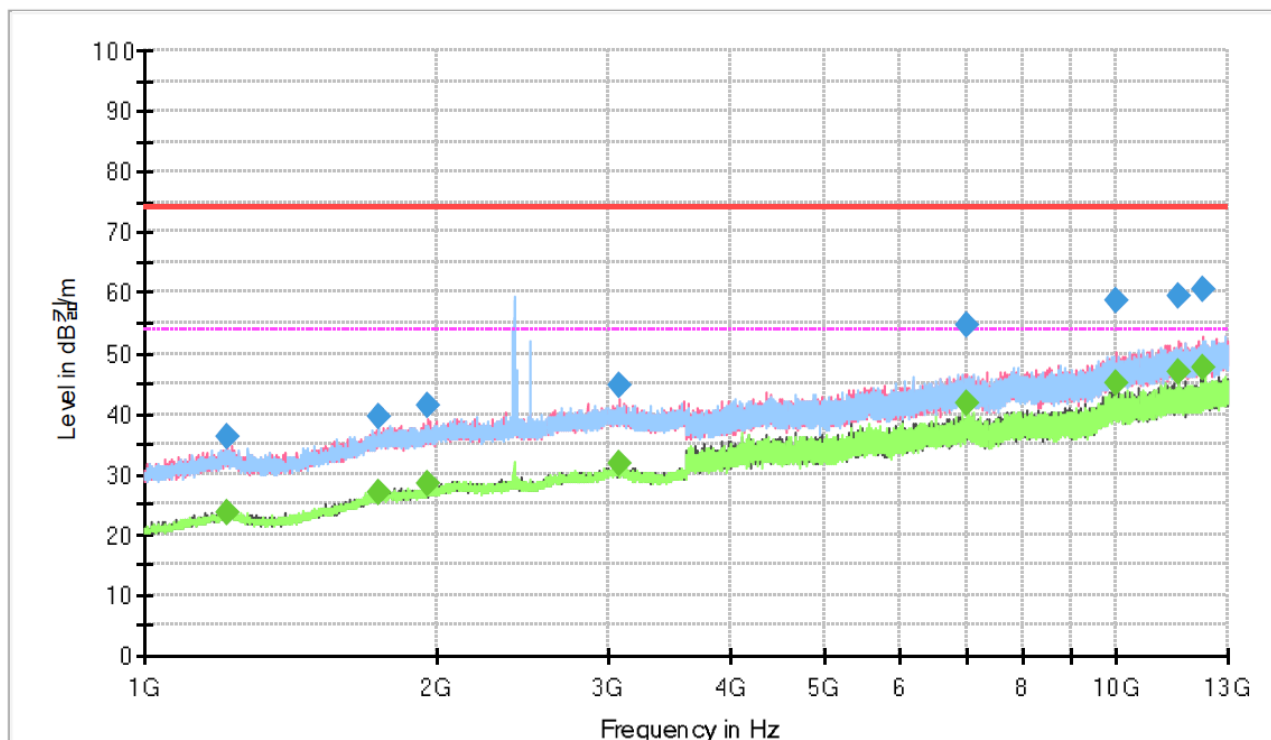
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1236.800000	35.93	---	74.00	38.07	1000.000	100.0	H	47.0	-2.3
1236.800000	---	23.41	54.00	30.59	1000.000	100.0	H	47.0	-2.3
1713.200000	39.97	---	74.00	34.03	1000.000	100.0	V	264.0	1.5
1713.200000	---	26.82	54.00	27.18	1000.000	100.0	V	264.0	1.5
2004.000000	40.63	---	74.00	33.37	1000.000	100.0	V	104.0	3.7
2004.000000	---	28.07	54.00	25.93	1000.000	100.0	V	104.0	3.7
3009.200000	44.67	---	74.00	29.33	1000.000	100.0	V	332.0	7.0
3009.200000	---	31.43	54.00	22.57	1000.000	100.0	V	332.0	7.0
5928.000000	---	38.64	54.00	15.36	1000.000	100.0	V	104.0	11.6
5928.000000	51.23	---	74.00	22.77	1000.000	100.0	V	104.0	11.6
7047.600000	---	41.59	54.00	12.41	1000.000	100.0	H	66.0	14.7
7047.600000	53.86	---	74.00	20.14	1000.000	100.0	H	66.0	14.7
8071.600000	---	41.97	54.00	12.03	1000.000	100.0	H	0.0	15.1
8071.600000	54.53	---	74.00	19.47	1000.000	100.0	H	0.0	15.1
11589.200000	60.19	---	74.00	13.81	1000.000	100.0	V	165.0	20.0
11589.200000	---	46.94	54.00	7.06	1000.000	100.0	V	165.0	20.0
12796.000000	61.02	---	74.00	12.98	1000.000	100.0	V	246.0	21.3
12796.000000	---	48.23	54.00	5.77	1000.000	100.0	V	246.0	21.3

*The 2.4 GHz band is the intentional frequency.



[Turbo + Smart + DRY Mode]



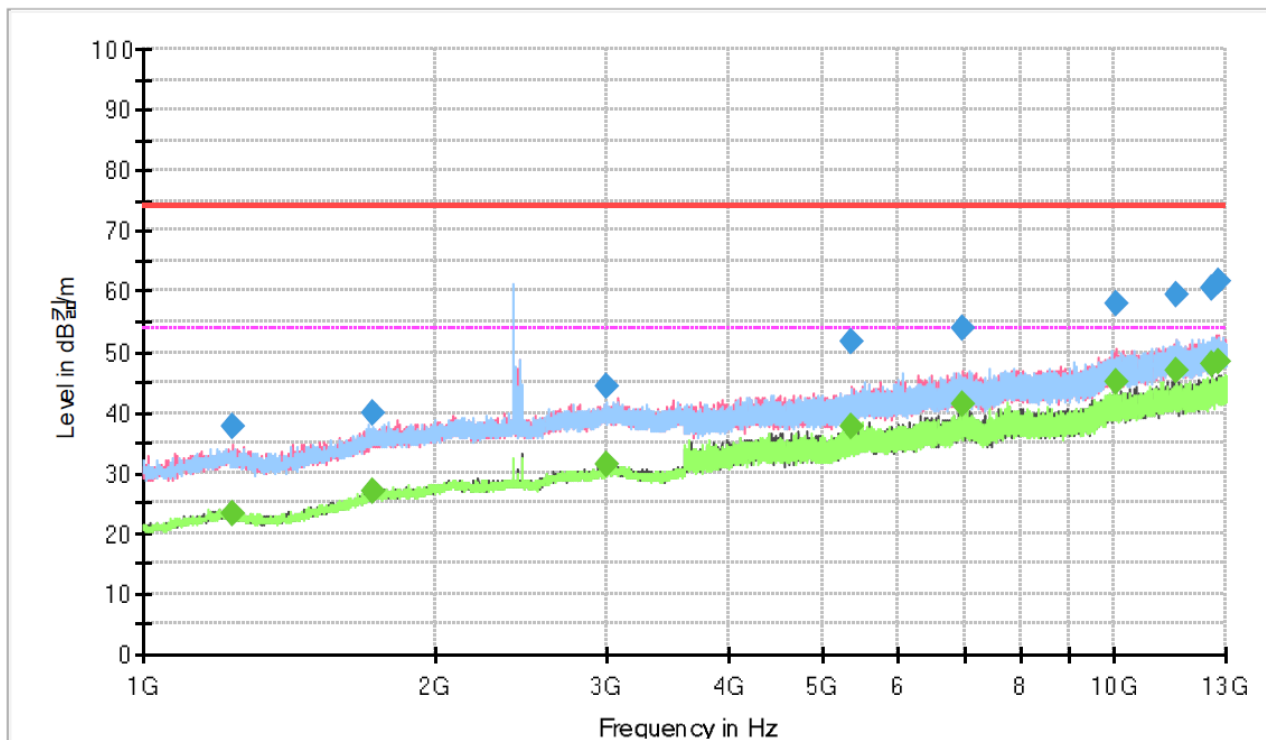
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1214.800000	36.18	---	74.00	37.82	1000.000	100.0	V	288.0	-2.3
1214.800000	---	23.57	54.00	30.43	1000.000	100.0	V	288.0	-2.3
1736.000000	39.60	---	74.00	34.40	1000.000	100.0	H	302.0	1.5
1736.000000	---	26.95	54.00	27.05	1000.000	100.0	H	302.0	1.5
1956.400000	41.47	---	74.00	32.53	1000.000	100.0	V	288.0	3.3
1956.400000	---	28.50	54.00	25.50	1000.000	100.0	V	288.0	3.3
3072.400000	44.80	---	74.00	29.20	1000.000	100.0	V	56.0	7.2
3072.400000	---	31.84	54.00	22.16	1000.000	100.0	V	56.0	7.2
7017.200000	54.78	---	74.00	19.22	1000.000	100.0	V	329.0	14.6
7017.200000	---	41.61	54.00	12.39	1000.000	100.0	V	329.0	14.6
9977.200000	58.53	---	74.00	15.47	1000.000	100.0	V	33.0	18.4
9977.200000	---	45.15	54.00	8.85	1000.000	100.0	V	33.0	18.4
11552.800000	59.32	---	74.00	14.68	1000.000	100.0	V	0.0	20.0
11552.800000	---	46.96	54.00	7.04	1000.000	100.0	V	0.0	20.0
12290.800000	60.65	---	74.00	13.35	1000.000	100.0	V	266.0	20.4
12290.800000	---	47.46	54.00	6.54	1000.000	100.0	V	266.0	20.4

*The 2.4 GHz band is the intentional frequency.



[UV + Storage Mode]



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1232.800000	37.71	---	74.00	36.29	1000.000	100.0	V	250.0	-2.3
1232.800000	---	23.40	54.00	30.60	1000.000	100.0	V	250.0	-2.3
1718.800000	39.90	---	74.00	34.10	1000.000	100.0	H	47.0	1.5
1718.800000	---	26.86	54.00	27.14	1000.000	100.0	H	47.0	1.5
3001.600000	---	31.37	54.00	22.63	1000.000	100.0	H	0.0	7.0
3001.600000	44.42	---	74.00	29.58	1000.000	100.0	H	0.0	7.0
5369.600000	---	37.79	54.00	16.21	1000.000	100.0	V	290.0	10.7
5369.600000	51.66	---	74.00	22.34	1000.000	100.0	V	290.0	10.7
6986.000000	54.02	---	74.00	19.98	1000.000	100.0	V	146.0	14.5
6986.000000	---	41.50	54.00	12.50	1000.000	100.0	V	146.0	14.5
10013.200000	---	45.18	54.00	8.82	1000.000	100.0	V	10.0	18.4
10013.200000	58.04	---	74.00	15.96	1000.000	100.0	V	10.0	18.4
11579.200000	59.42	---	74.00	14.58	1000.000	100.0	H	190.0	20.0
11579.200000	---	46.94	54.00	7.06	1000.000	100.0	H	190.0	20.0
12604.400000	60.70	---	74.00	13.30	1000.000	100.0	V	352.0	21.1
12604.400000	---	47.90	54.00	6.10	1000.000	100.0	V	352.0	21.1
12798.000000	61.67	---	74.00	12.33	1000.000	100.0	V	331.0	21.3
12798.000000	---	48.22	54.00	5.78	1000.000	100.0	V	331.0	21.3

*The 2.4 GHz band is the intentional frequency.



Disturbance Voltage Test

Test Method and Summary

Test standard : FCC Part 15 Subpart B

Used Test Equipment

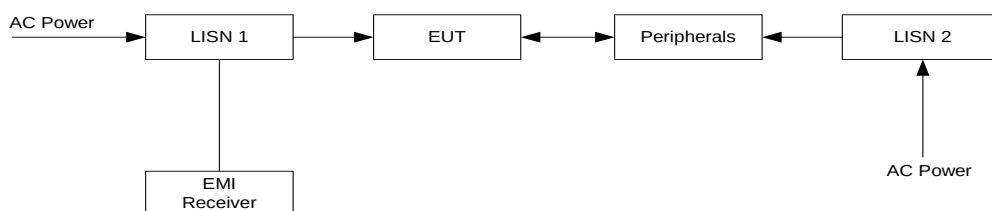
Control No.	Equipment	Manufacturer	Model No.	Serial No.	Next Cal.	Cal Int.
EMC004	EMI Test Receiver	R & S	ESR7	101560	2020.01.02	1Y
EMC007	Two-Line V-Network	R & S	ENV216	101982	2019.10.31	1Y

Operating Environment

Test Voltage: AC 120 V, 60 Hz

Test Setup and Procedure

Disturbance Voltage Test at Mains Terminal:



The EUT along with its peripherals were placed on a 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 m space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 characteristic coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

Limits

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50

Note 1) The lower limit shall apply at the transition frequencies.

Note 2) The limit decreases linearly with the logarithm of the frequency in the range (0.15 ~ 0.5) MHz.

Note 3) Result (dBμV) = Reading (dBμV) + Corr. (Insertion Loss (dB) + Cable Loss (dB))

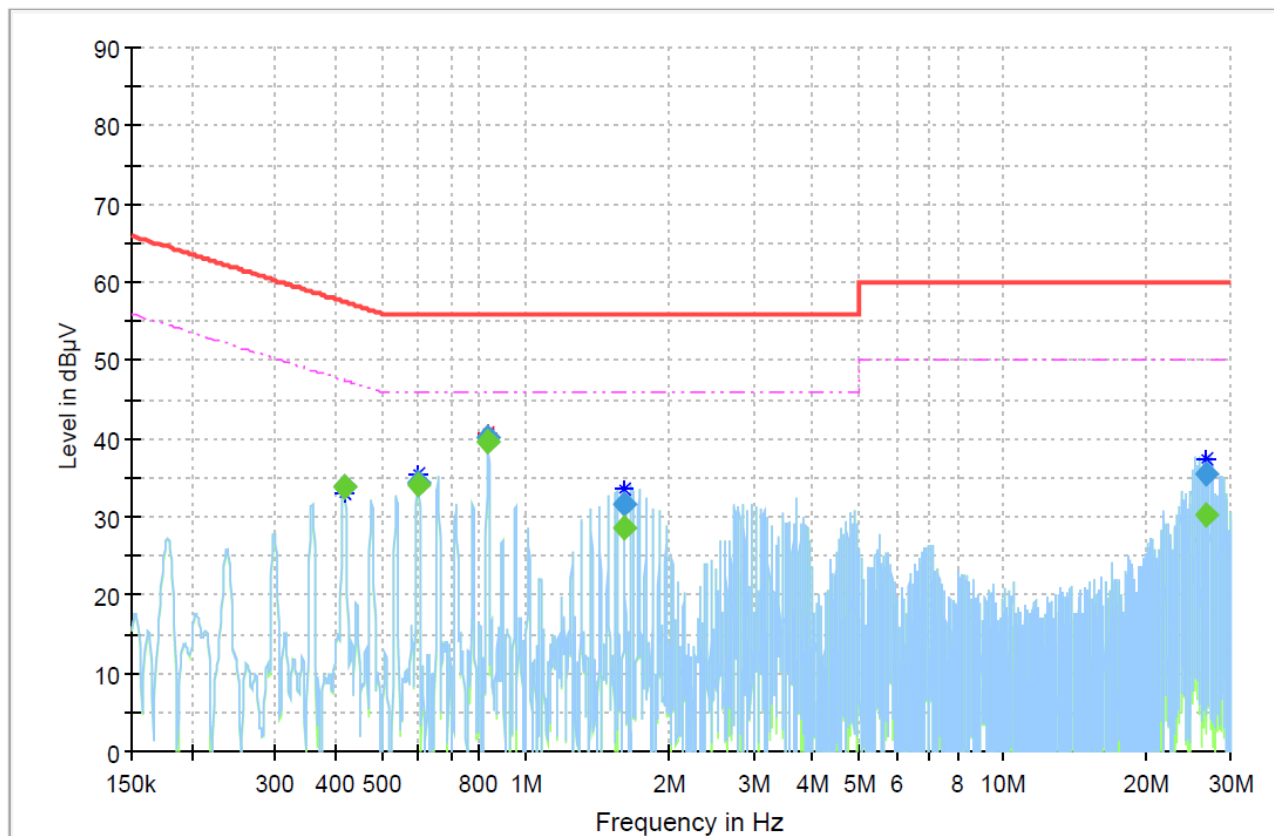
Result: QuasiPeak/CAverage, Reading: Receiver reading value, Corr.: Correction Factor

Margin = Limit – Result



Test Data

[Auto + Smart + DRY Mode_Live]

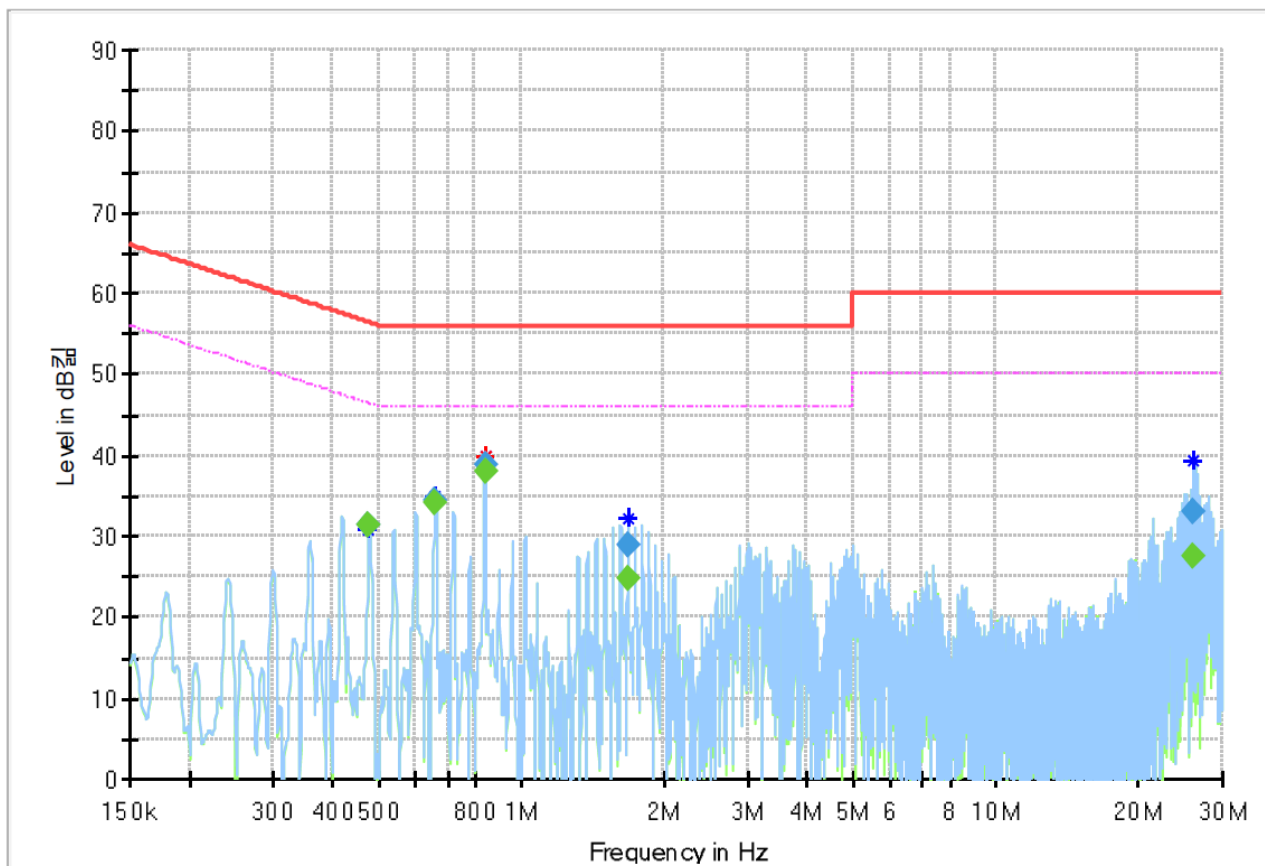


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.416660	---	33.86	47.51	13.65	9.000	L1	ON	10.0
0.416660	33.83	---	57.51	23.68	9.000	L1	ON	10.0
0.596755	---	34.08	46.00	11.92	9.000	L1	ON	9.9
0.596755	34.43	---	56.00	21.57	9.000	L1	ON	9.9
0.835555	---	39.53	46.00	6.47	9.000	L1	ON	9.8
0.835555	40.18	---	56.00	15.82	9.000	L1	ON	9.8
1.611655	---	28.73	46.00	17.27	9.000	L1	ON	9.7
1.611655	31.51	---	56.00	24.49	9.000	L1	ON	9.7
26.698590	---	30.31	50.00	19.69	9.000	L1	ON	10.1
26.698590	35.53	---	60.00	24.47	9.000	L1	ON	10.1



[Auto + Smart + DRY Mode_Neutral]

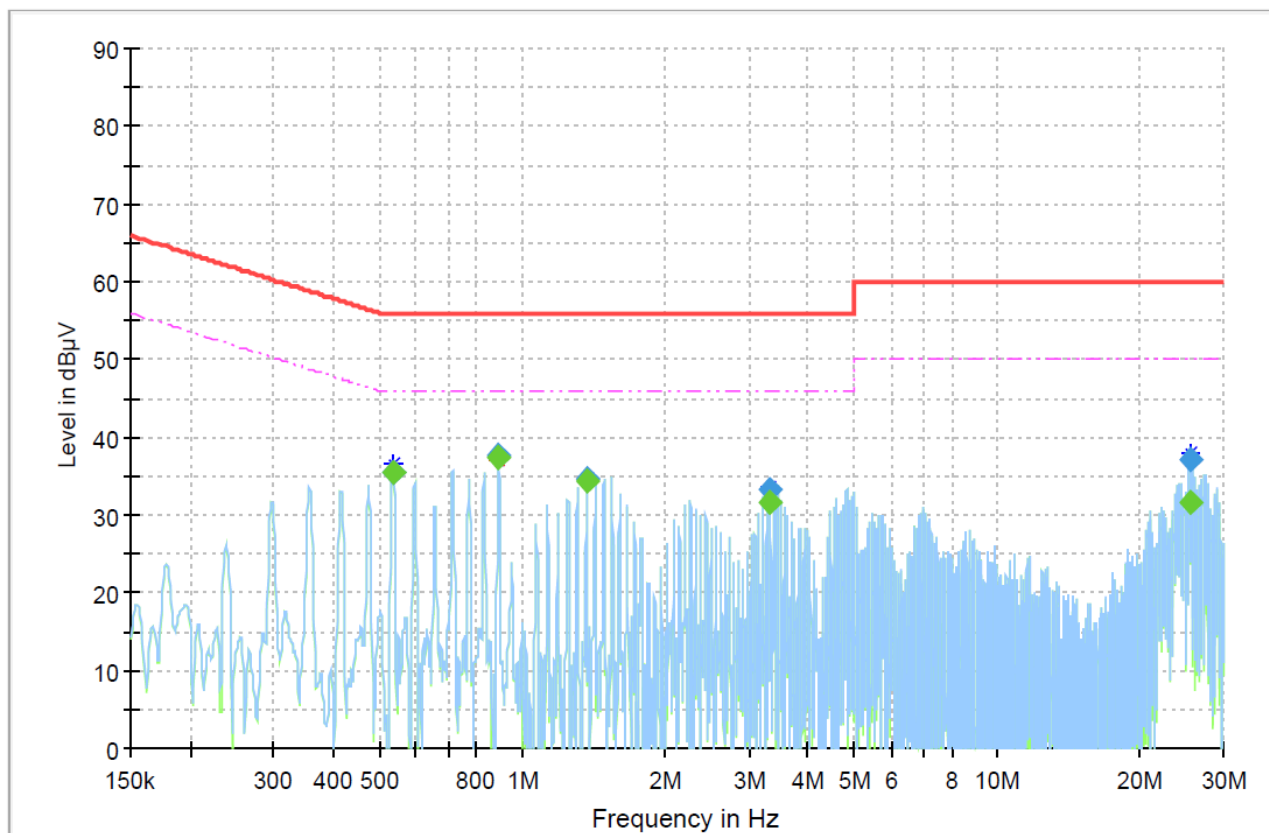


Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.478350	---	31.36	46.37	15.01	9.000	N	ON	10.0
0.478350	31.51	---	56.37	24.86	9.000	N	ON	10.0
0.658445	---	34.19	46.00	11.81	9.000	N	ON	9.9
0.658445	34.44	---	56.00	21.56	9.000	N	ON	9.9
0.839535	---	37.91	46.00	8.09	9.000	N	ON	9.9
0.839535	38.67	---	56.00	17.33	9.000	N	ON	9.9
1.679315	---	24.88	46.00	21.12	9.000	N	ON	9.7
1.679315	28.83	---	56.00	27.17	9.000	N	ON	9.7
26.186165	---	27.56	50.00	22.44	9.000	N	ON	10.2
26.186165	32.99	---	60.00	27.01	9.000	N	ON	10.2



[Turbo + Smart + DRY Mode_Live]

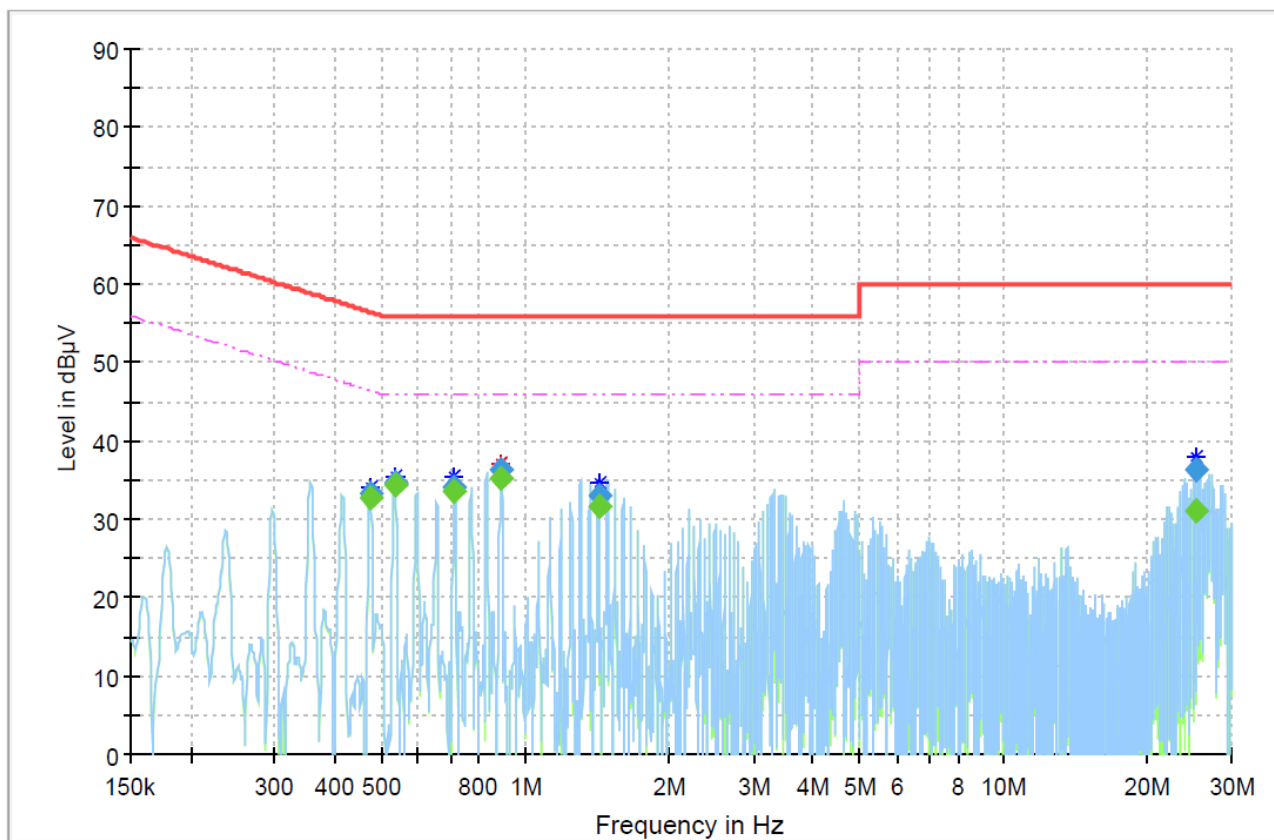


Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.535065	---	35.55	46.00	10.45	9.000	L1	ON	10.0
0.535065	35.61	---	56.00	20.39	9.000	L1	ON	10.0
0.892270	---	37.40	46.00	8.60	9.000	L1	ON	9.8
0.892270	37.77	---	56.00	18.23	9.000	L1	ON	9.8
1.367880	---	34.35	46.00	11.65	9.000	L1	ON	9.8
1.367880	34.67	---	56.00	21.33	9.000	L1	ON	9.8
3.332010	---	31.57	46.00	14.43	9.000	L1	ON	9.8
3.332010	33.29	---	56.00	22.71	9.000	L1	ON	9.8
25.550360	---	31.73	50.00	18.27	9.000	L1	ON	10.1
25.550360	37.07	---	60.00	22.93	9.000	L1	ON	10.1



[Turbo + Smart + DRY Mode _Neutral]

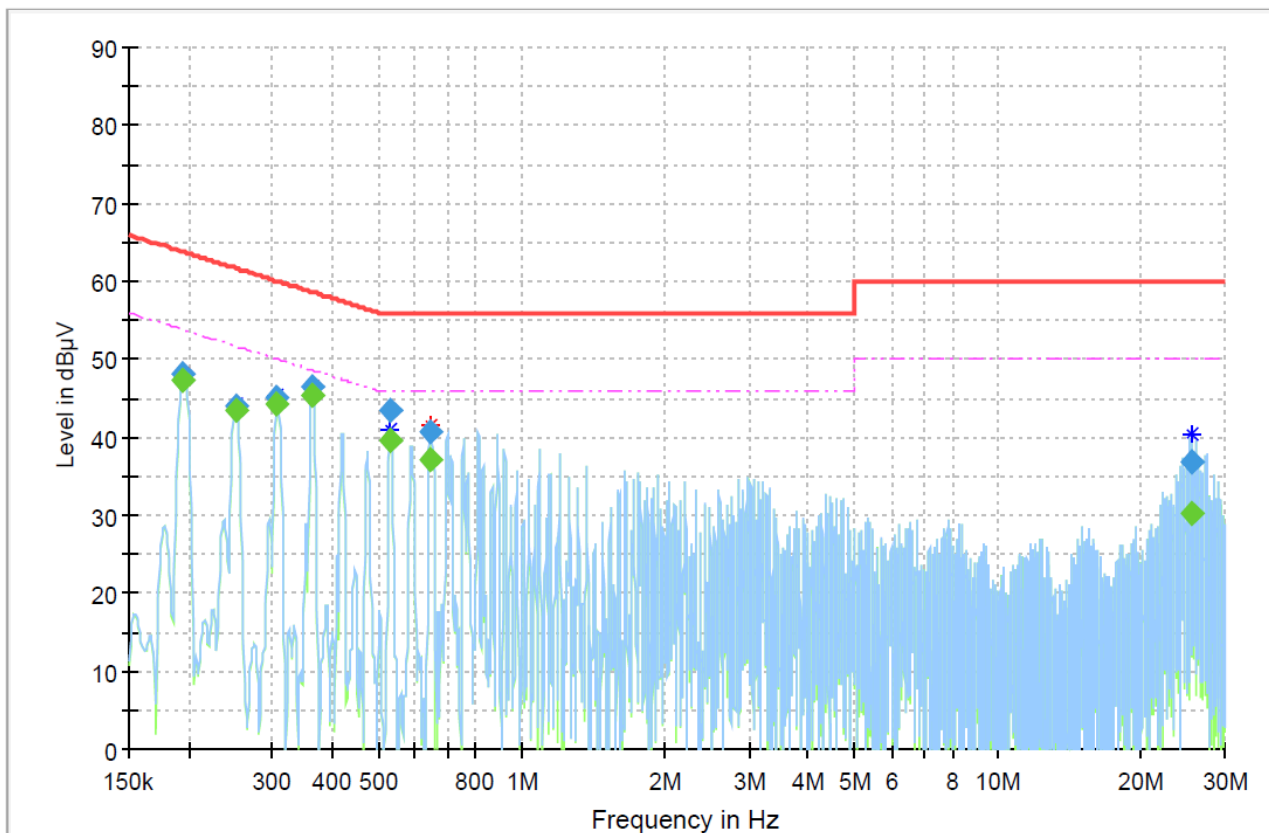


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.474370	33.17	---	56.44	23.27	9.000	N	ON	10.0
0.474370	---	32.76	46.44	13.68	9.000	N	ON	10.0
0.534070	34.54	---	56.00	21.46	9.000	N	ON	10.0
0.534070	---	34.43	46.00	11.57	9.000	N	ON	10.0
0.712175	34.14	---	56.00	21.86	9.000	N	ON	9.9
0.712175	---	33.66	46.00	12.34	9.000	N	ON	9.9
0.891275	36.21	---	56.00	19.79	9.000	N	ON	9.9
0.891275	---	35.21	46.00	10.79	9.000	N	ON	9.9
1.425590	33.08	---	56.00	22.92	9.000	N	ON	9.8
1.425590	---	31.55	46.00	14.45	9.000	N	ON	9.8
25.282705	36.37	---	60.00	23.63	9.000	N	ON	10.2
25.282705	---	31.05	50.00	18.95	9.000	N	ON	10.2



[UV + Storage Mode _Live]

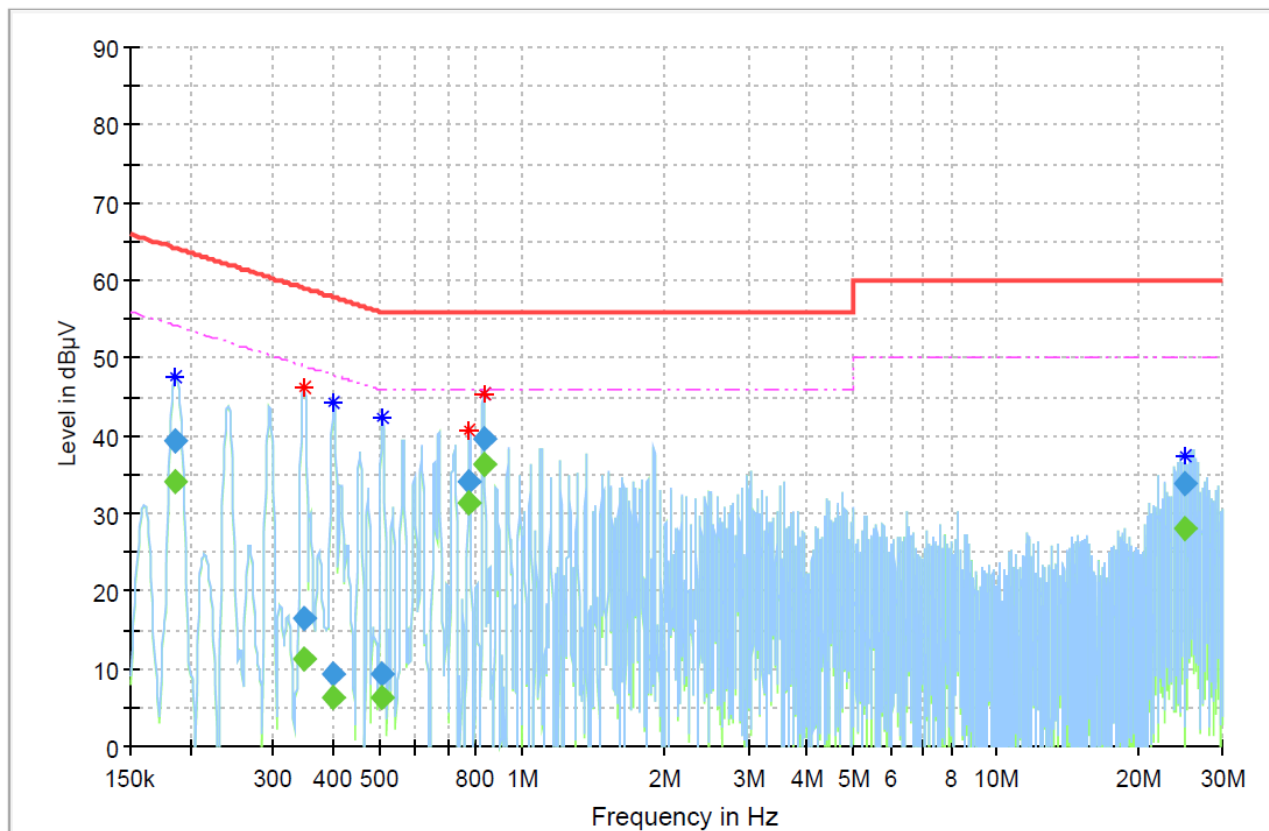


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194775	---	47.27	53.83	6.56	9.000	L1	ON	9.9
0.194775	48.16	---	63.83	15.67	9.000	L1	ON	9.9
0.251490	---	43.38	51.71	8.33	9.000	L1	ON	9.7
0.251490	44.00	---	61.71	17.71	9.000	L1	ON	9.7
0.307210	---	44.23	50.05	5.82	9.000	L1	ON	9.8
0.307210	45.21	---	60.05	14.84	9.000	L1	ON	9.8
0.363925	---	45.43	48.64	3.20	9.000	L1	ON	10.0
0.363925	46.57	---	58.64	12.07	9.000	L1	ON	10.0
0.531085	---	39.67	46.00	6.33	9.000	L1	ON	10.0
0.531085	43.50	---	56.00	12.50	9.000	L1	ON	10.0
0.643520	---	37.12	46.00	8.88	9.000	L1	ON	9.9
0.643520	40.61	---	56.00	15.39	9.000	L1	ON	9.9
25.439915	---	30.28	50.00	19.72	9.000	L1	ON	10.1
25.439915	36.78	---	60.00	23.22	9.000	L1	ON	10.1



[UV + Storage Mode _ Neutral]



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.186815	39.24	---	64.18	24.94	9.000	N	ON	10.0
0.186815	---	34.07	54.18	20.11	9.000	N	ON	10.0
0.347010	16.58	---	59.03	42.45	9.000	N	ON	9.9
0.347010	---	11.31	49.03	37.72	9.000	N	ON	9.9
0.401735	9.32	---	57.82	48.50	9.000	N	ON	10.0
0.401735	---	6.34	47.82	41.48	9.000	N	ON	10.0
0.509195	9.40	---	56.00	46.60	9.000	N	ON	10.0
0.509195	---	6.33	46.00	39.67	9.000	N	ON	10.0
0.774860	34.21	---	56.00	21.79	9.000	N	ON	9.9
0.774860	---	31.26	46.00	14.74	9.000	N	ON	9.9
0.831575	39.50	---	56.00	16.50	9.000	N	ON	9.9
0.831575	---	36.40	46.00	9.60	9.000	N	ON	9.9
25.017040	33.72	---	60.00	26.28	9.000	N	ON	10.1
25.017040	---	27.95	50.00	22.05	9.000	N	ON	10.1

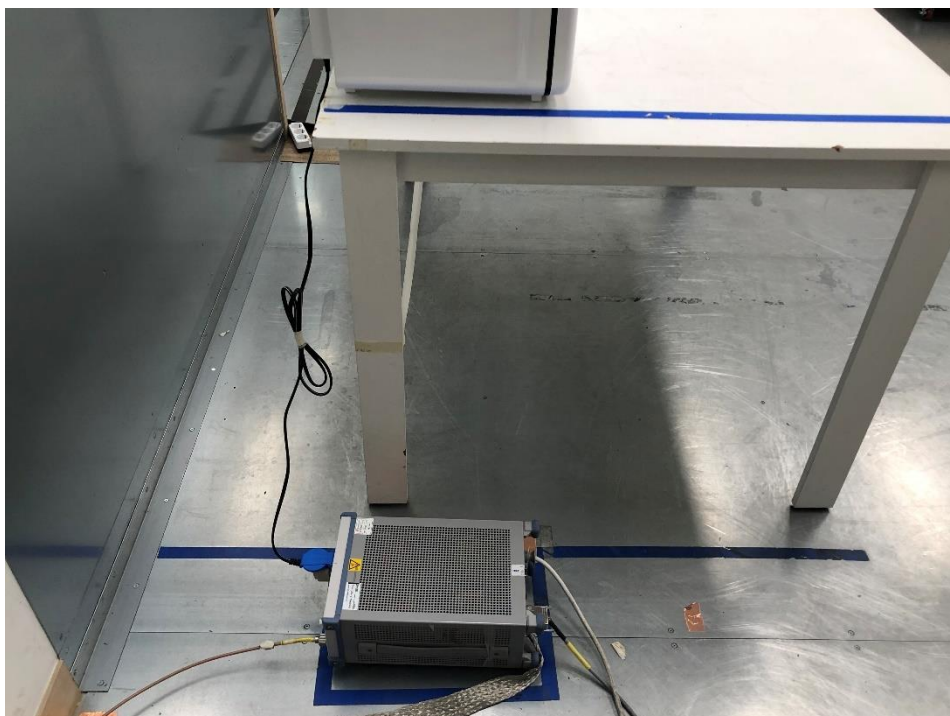


SECTION 7 APPENDIX I

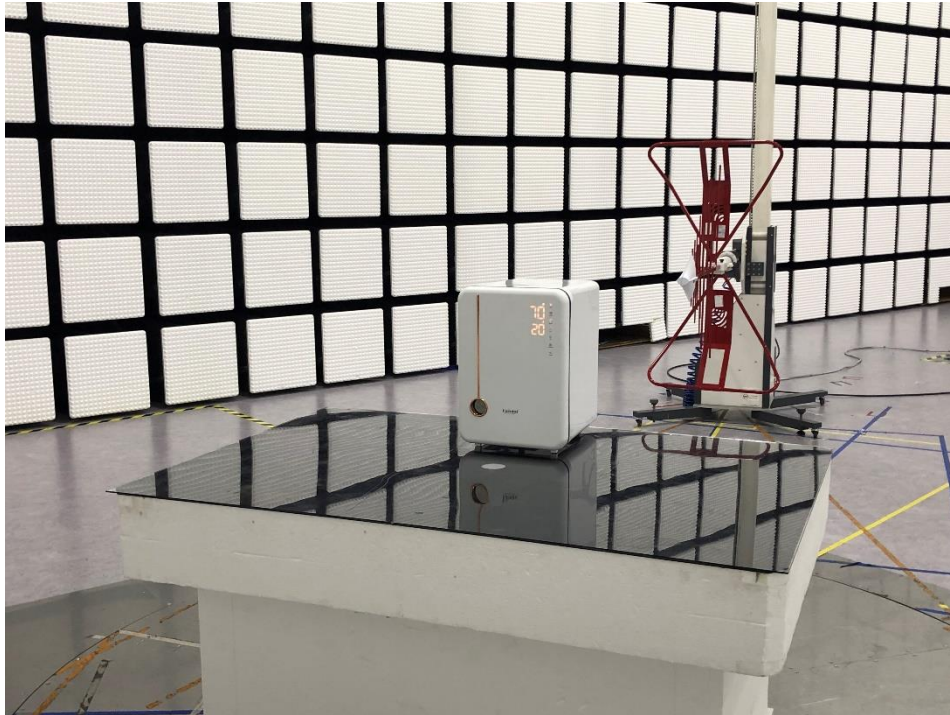
Photographs of Test Configurations



Disturbance Voltage Test



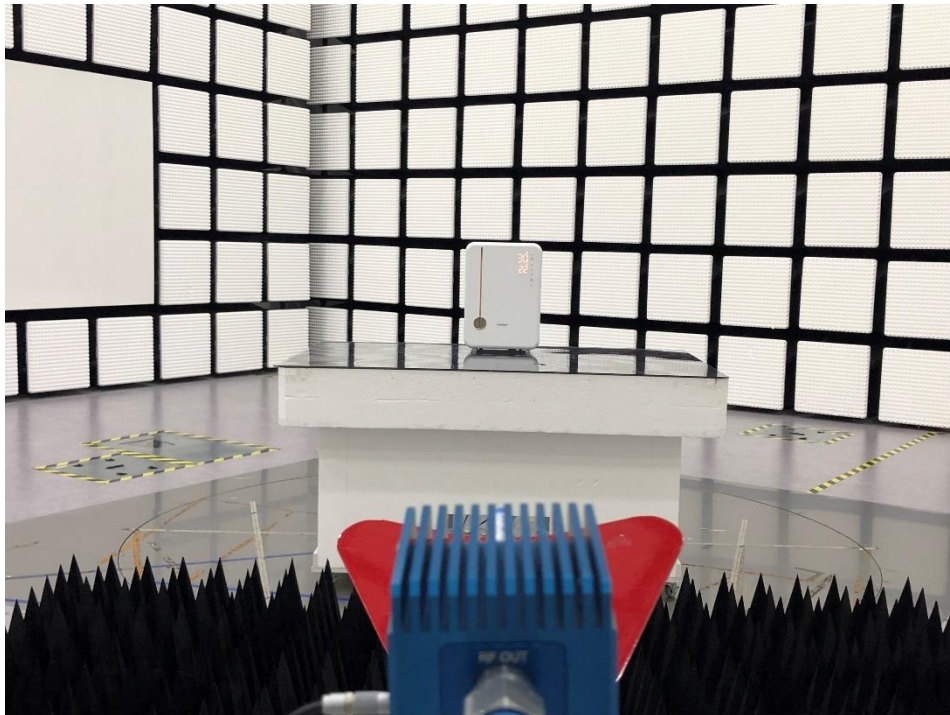
Disturbance Voltage Test



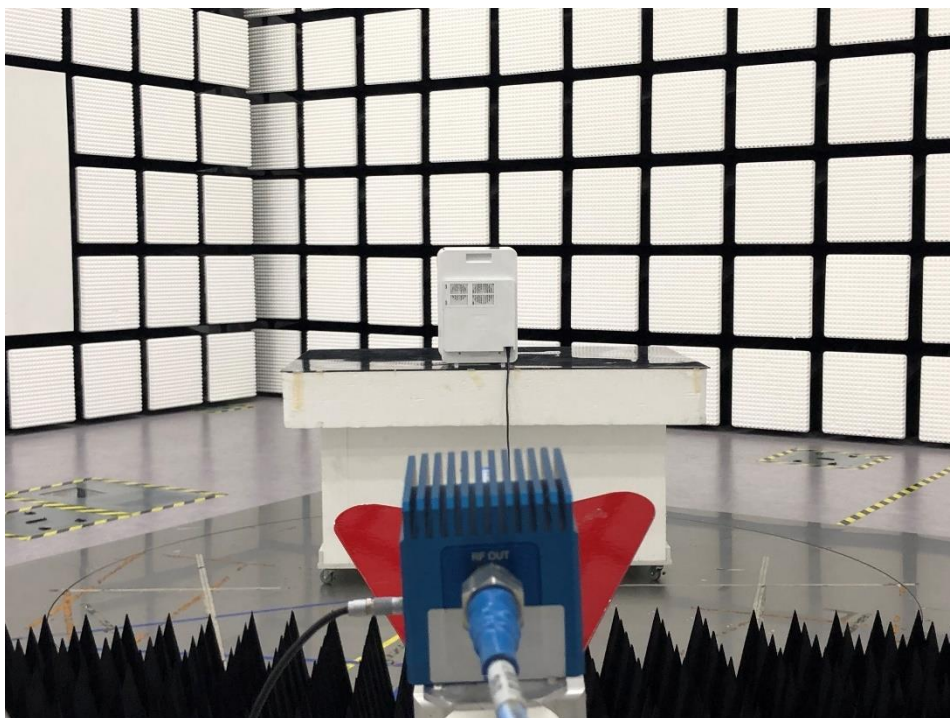
Radiated disturbance (Below 1 GHz)



Radiated disturbance (Below 1 GHz)



Radiated disturbance (Above 1 GHz)



Radiated disturbance (Above 1 GHz)



SECTION 8 APPENDIX II

Photographs of EUT



Front



Rear