

# TEST REPORT

For

## LCD monitor

In conformity with

### FCC CFR 47 Part15 Subpart B

**Model** : LAM123M860B  
**Test Item** : LCD monitor  
**Report No.** : WE221031AE1-22  
**Issue Date** : 6 February 2023

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## History

Report No.	Date	Revisions	Issued By
WE221031AE1-21	6 December 2022	Initial Issue	T. Li
WE221031AE1-22	6 February 2023	Corrected the equipment list (p.9, p.15) Added test setup for GHz band (p.8) Added explanation measuring in the GHz band (p.9) Corrected the Limits (p.9) Replaced photo (p.14)	T. Li

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## 1 General information

### 1.1 Product description from applicant

Test item	: LCD monitor
Manufacturer	: Japan Display Inc.
Address	: Landic 2nd Bdg.,3-7-1 Nishi-shinbashi Minato-ku, Tokyo 105-0003, Japan
Model (Serial number)	: LAM123M860B
Highest operating frequency	: 451.36 MHz
Hardware Version	: 1.0
Software Version	: -
Receipt date of EUT	: 28 November 2022
Nominal power source voltages	: 15V dc
Note	: -

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## 1.2 Test(s) performed/ Summary of test result

Test specification(s)	: FCC CFR 47. Part 15 subpart B (01 Oct. 2021)
Test method(s)	: ANSI C63.4: 2014
Test(s)	: 01 December 2022, 02 December 2022, 05 December 2022

Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.

The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.

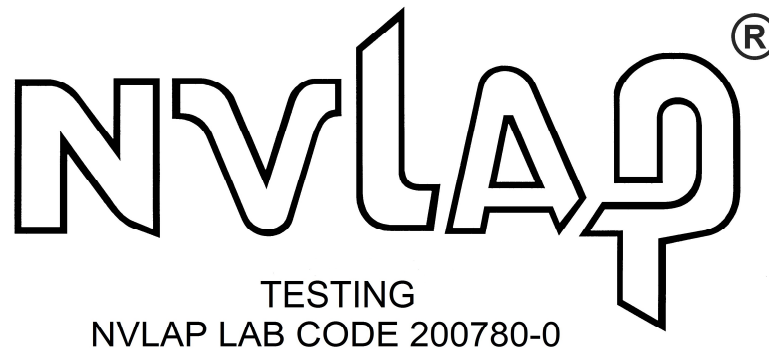
Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

## 1.3 Test facility

Registered by Innovation Science and Economic Development Canada (ISED):  
The registered CAB identifier is JP0009

Accredited by **National Voluntary Laboratory Accreditation Program (NVLAP)** for the emission tests stated in the scope of the certificate under Certificate Number 200780-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the US Government.



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## 1.4 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in “Guide to the expression of uncertainty in measurement (GUM)” published by ISO. The Lab’s uncertainty is determined by referring UKAS Publication LAB34: 2002 “The Expression of Uncertainty in EMC Testing” and CISPR16-4-2: 2011 “Uncertainty in EMC Measurements”.

The uncertainty of the measurement results in the level of confidence of approximately 95% ( $k=2$ ) is as follows;

Conducted emission	: ± 3.3 dB (150 kHz - 30 MHz)
Radiated emission	: ± 5.9 dB (30 MHz - 1000 MHz) ± 4.1 dB (1000 MHz - 2000 MHz)

## 1.5 Summary of test results

Requirement	Section in FCC15	Result	Section in this report
Radiated emissions (30 to 2000 MHz)	15.109	Complied	2.1
AC power line conducted emissions	15.107	Complied	2.2

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## 1.6 Setup of equipment under test (EUT)

### 1.6.1 Test configuration of EUT

#### Equipment(s) under test

No.	Item	Manufacture	Model No.	Serial No.
1	LCD Monitor	JDI	LAM123M860B	270042

#### Support Equipment(s)

No.	Item	Manufacture	Model No.	Serial No.	FCC ID
2	AC Adapter	BUFFALO	BSACPD4500BK	A11110	-
3	PC	Toshiba	R63/B	ZG081213H	-
4	AC Adapter	Toshiba	PA5177U-1ACA	G71C000GX210	-
5	Mouse	Lenovo	MOC9ULA	8S0A34144G7262116	-

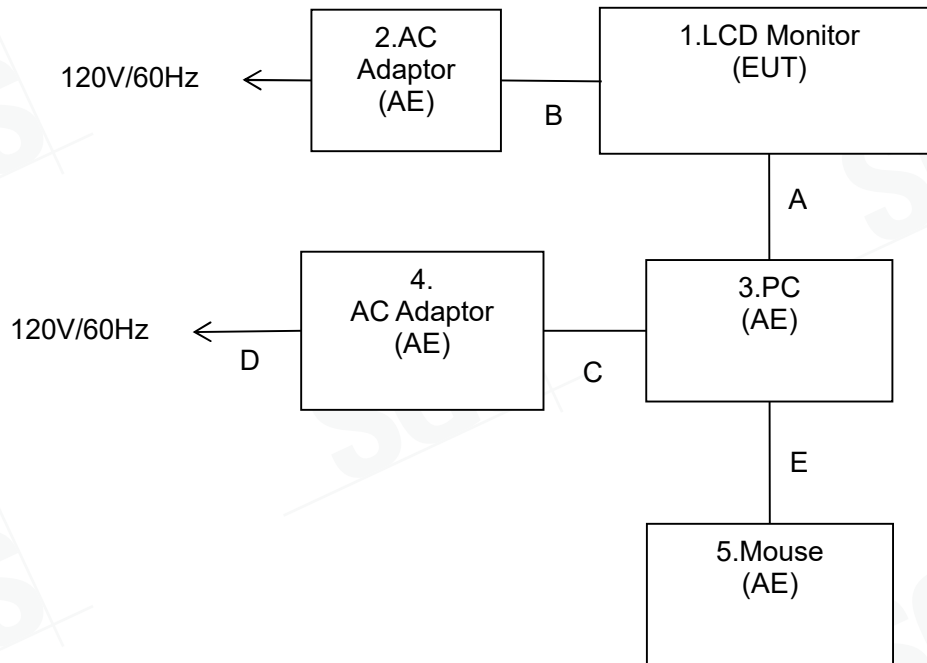
#### Connected cable(s)

No.	Cable Name	Length (m)	Shielded	Remark
A	HDMI Cable	2.0	Yes	-
B	DC Cable1	1.0	No	-
C	DC Cable2	1.8	No	-
D	AC Cable	0.9	No	-
E	Mouse Cable	1.2	No	-

### 1.6.2 Operating condition:

1) Brightness mode switch: High

### Setup diagram of tested system



**Figure 1: Test Configuration**

## 1.7 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

## 1.8 Deviation from the standard

No deviations from the standards described in clause 1.2.

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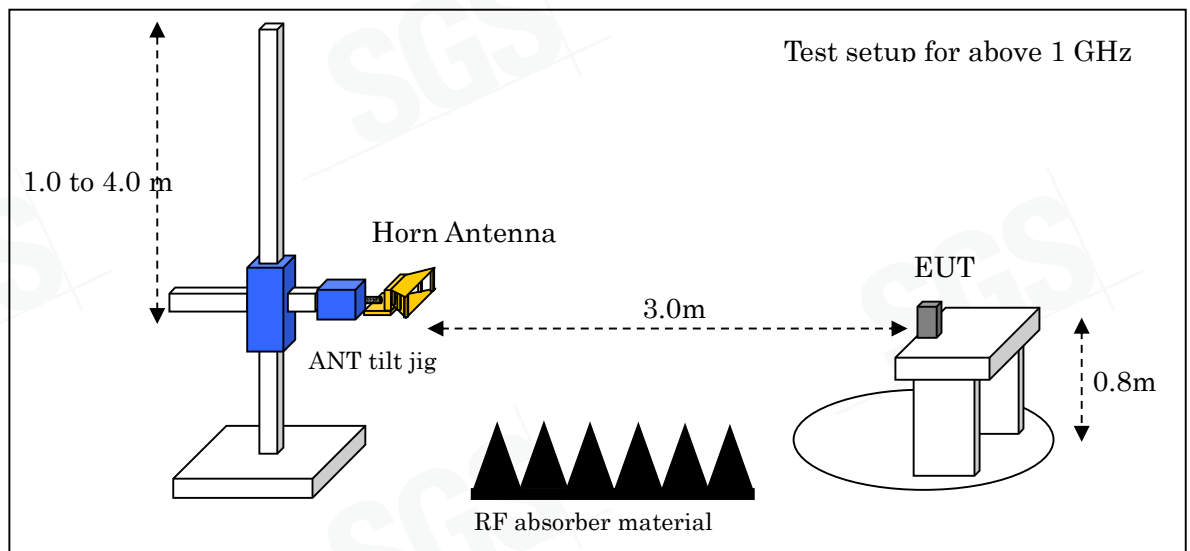
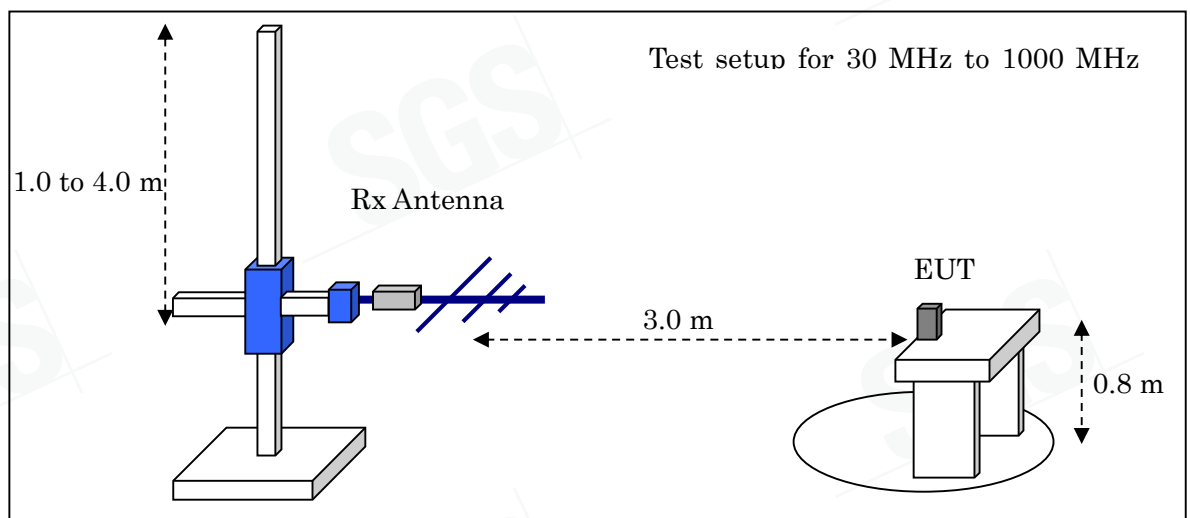
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## 2 Test procedure and test data

### 2.1 Radiated emissions

#### Test setup

Test setup was implemented according to the method of ANSI C63.4:2014 clause 6 “General requirements for EUT arrangements, configuration, and operation”, and clause 8 “Radiated emission measurements”.



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### Test procedure

Measurement procedures were implemented according to the method of ANSI C63.4: 2014 clauses 8.3. The EUT is placed on a non-conducted table which is 0.8 m height from a ground plane and the measurement antenna to EUT distance is 3 meters. The turn table is rotated for 360 degrees to determine the maximum emission level. The antenna height is elevated between a range of 1 m and 4 m, (The measurement antenna continuously aiming at the emission source for receiving the maximum signal (1GHz to 40GHz)) and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

The spectrum analyzer and receiver are set to the followings:  
Between 30 - 1000 MHz: RBW=100 kHz, VBW= 300 kHz (Final measurement: RBW=120 kHz (QP))  
Above 1000 MHz: RBW=1 MHz, VBW= 1 MHz (Final measurement: RBW=1 MHz (PK/AV))

### Applicable rule and limitation

§15.109 (a) Radiated emission limits (Class B)

Frequency 30 – 2000 MHz (QP (30-1000MHz), Peak (1000-2000MHz), AV (1000-2000MHz)):

Frequency [MHz]	Field Strength [ $\mu$ V/m] @3m	Measurement Distance [m]	Field Strength [dBuV/m] @3m
30 – 88	100	3	40.0(QP)
88 – 216	150	3	43.5(QP)
216 – 960	200	3	46.0(QP)
960 - 1000	500	3	53.9(QP)
Above 1000	500	3	53.9(AV), 73.9(Peak)

In the emission table above, the tighter limit applies at the band edges

### Test results - Complied with requirement

### Test equipment used (refer to List of utilized test equipment)

AC01(EM)	AC01(EG)	BA07	CL11	TR10	PR12	PR21	CL38
CL39	DH06						

EM: Emission for MHz Band, EG: Emission for GHz Band

Software for testing: Electro Magnetic Interference Measurement Software Version 6.1

## Test Data

Measurement distance: 3 m  
Test result of radiated emission (30 MHz – 1000 MHz)  
Antenna type: Biological Antenna

No.	Frequency [MHz]	Reading [dBuV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Antenna Polarization
1	257.911	50.0	12.6	9.1	30.2	41.5	46.0	4.5	Hori.
2	343.880	49.6	14.6	9.7	30.2	43.7	46.0	2.3	Hori.
3	945.674	37.1	21.1	12.7	28.8	42.1	46.0	3.9	Hori.
4	38.147	41.6	18.6	6.9	30.4	36.7	40.0	3.3	Vert.
5	39.117	41.6	18.1	7.0	30.4	36.3	40.0	3.7	Vert.
6	773.732	42.6	19.6	12.0	30.1	44.1	46.0	1.9	Vert.

[Calculation sample]

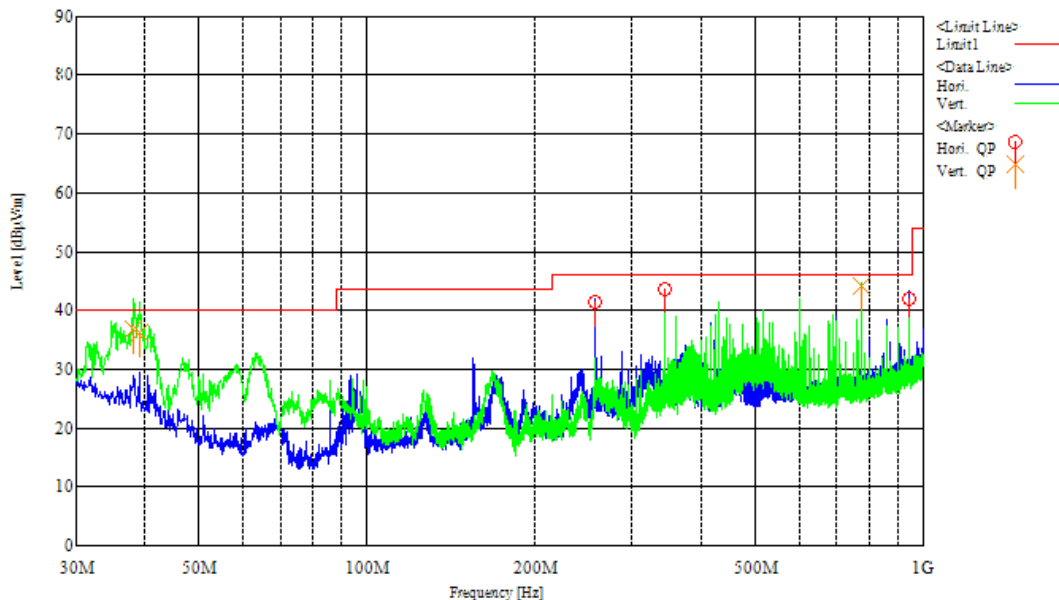
$$\text{Result [dBuV/m]} = \text{Reading [dBuV]} + \text{Factor [dB/m]} + \text{Loss [dB]} - \text{Gain [dB]}$$

Examples:

$$773.732 \text{ MHz: Reading (42.6dBuV)} + \text{Factor (19.6dB/m)} + \text{Loss (12.0dB)} - \text{Gain (30.1 dB)} \\ = \text{Result (44.1 dBuV/m)}$$

[Chart]

30 MHz – 1000 MHz



Tested Date: December 02, 2022  
Humidity: 39%

Temperature: 20 degC  
Atmos. Press: 1016 hPa

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Measurement distance: 3 m  
Test result of radiated emission (1000 MHz – 2000MHz)  
Antenna type: DRG Horn Antenna

No.	Frequency [MHz]	Reading		C.F. [dB]	Result		Limit		Margin		Phase
		Peak [dBuV]	AV [dBuV]		Peak [dBuV]	AV [dBuV]	Peak [dBuV]	AV [dBuV]	Peak [dB]	AV [dB]	
1	1289.558	60.0	53.6	-9.3	50.7	44.3	73.9	53.9	23.2	9.6	Hori.
2	1375.514	55.2	48.4	-9.2	46.0	39.2	73.9	53.9	27.9	14.7	Hori.
<b>3</b>	<b>1719.406</b>	<b>63.1</b>	<b>58.0</b>	<b>-8.9</b>	<b>54.2</b>	<b>49.1</b>	<b>73.9</b>	<b>53.9</b>	<b>19.7</b>	<b>4.8</b>	<b>Hori.</b>
4	1805.407	55.4	48.2	-8.4	47.0	39.8	73.9	53.9	26.9	14.1	Hori.
5	1289.563	59.0	52.1	-9.3	49.7	42.8	73.9	53.9	24.2	11.1	Vert.
6	1719.422	59.1	53.7	-8.9	50.2	44.8	73.9	53.9	23.7	9.1	Vert.

[Calculation sample]

$$\text{Correction Factor [dB]} = \text{LISN Factor [dB]} + \text{ATT Loss [dB]}$$

$$\text{Result [dBuV]} = \text{Reading [dBuV]} + \text{Correction Factor [dB]}$$

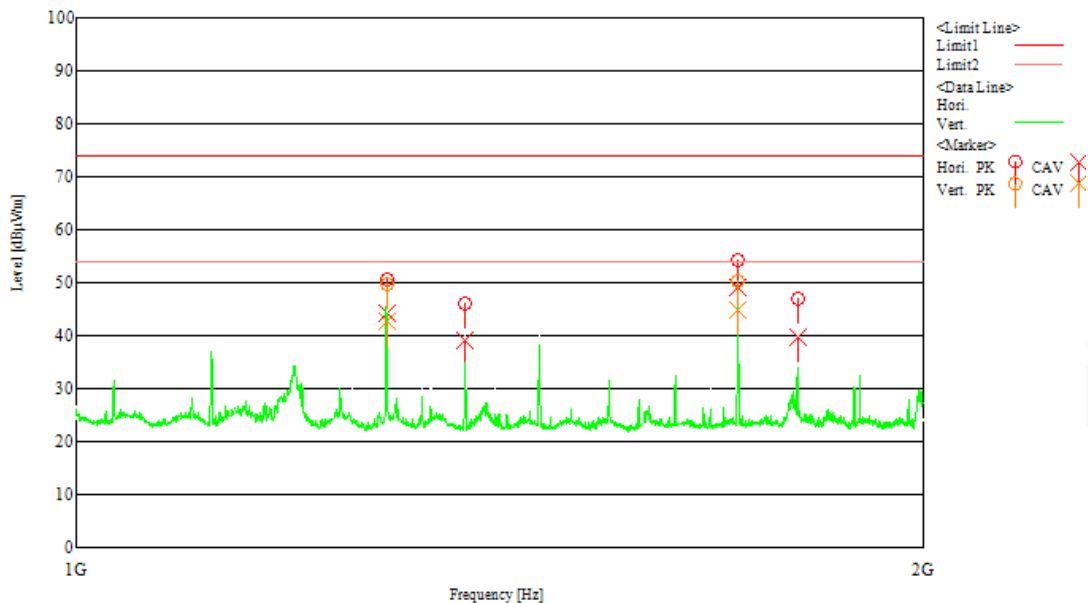
Examples:

$$1719.406 \text{ MHz (AV): Reading (58.0dBuV) + C.F (-8.9dB) = Result (49.1dBuV)}$$

C.F = Correction Factor

[Chart]

1000 MHz – 2000 MHz



Tested Date: December 02, 2022      Temperature: 20 degC  
Humidity: 39%      Atmos. Press: 1016 hPa

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## 2.2 AC power line conducted emissions

### Test setup

Test setup was implemented according to the method of ANSI C63.4: 2014 clause 6 “General requirements for EUT arrangements, configuration and operation” and clause 7 “AC power-line conducted emission measurements”.

### Test procedure

Measurement procedures were implemented according to the method of ANSI C63.4: 2014 clauses 7.3. Exploratory measurements were used the spectrum analyzer to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. Final ac power line conducted emission measurements were performed based on the exploratory tests. The EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit are selected for the final measurement. When the measurement value is greater than average limitation the average detection measurements were performed.

### Applicable rule and limitation

§15.107 (a) AC power line conducted limits (Class B)

Frequency of Emission [MHz]	Conducted Limit [dBuV]	
	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.5 - 5	56	46
5-30	60	50

### Test equipment used (refer to List of utilized test equipment)

TR09	CL72	LN05	
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Software for testing: Electro Magnetic Interference Measurement Software Version 6.1

### Test results - Complied with requirement

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## Test Data

Test result of conducted emission

No.	Frequency [MHz]	Reading		C.F. [dB]	Result		Limit		Margin		Phase
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
1	0.45332	25.6	17.0	10.1	35.7	27.1	56.8	46.8	21.1	19.7	Va
2	0.47499	24.7	16.2	10.1	34.8	26.3	56.4	46.4	21.6	20.1	Va
3	3.27997	22.2	13.2	10.1	32.3	23.3	56.0	46.0	23.7	22.7	Va
<b>4</b>	<b>0.45379</b>	<b>25.4</b>	<b>17.1</b>	<b>10.1</b>	<b>35.5</b>	<b>27.2</b>	<b>56.8</b>	<b>46.8</b>	<b>21.3</b>	<b>19.6</b>	Vb
5	0.71328	17.3	8.2	10.1	27.4	18.3	56.0	46.0	28.6	27.7	Vb
6	3.25537	22.3	13.7	10.1	32.4	23.8	56.0	46.0	23.6	22.2	Vb

[Calculation sample]

$$\text{Correction Factor [dB]} = \text{LISN Factor [dB]} + \text{ATT Loss [dB]}$$

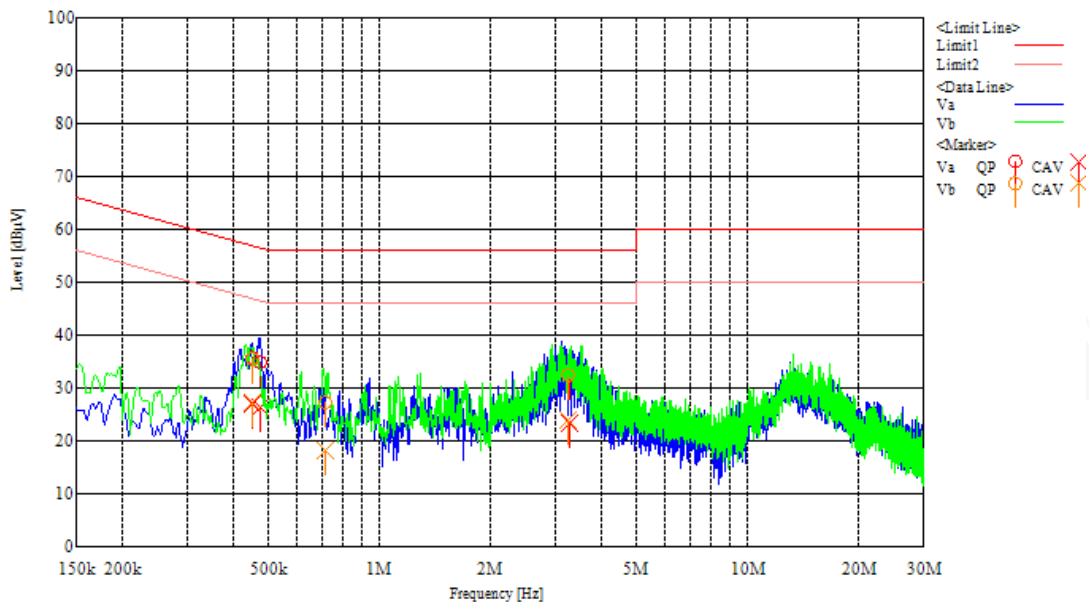
$$\text{Result [dBuV]} = \text{Reading [dBuV]} + \text{Correction Factor [dB]}$$

Examples:

$$0.45379 \text{ MHz (AV): Reading (17.1dBuV) + C.F (10.1dB) = Result (27.2dBuV)}$$

C.F = Correction Factor

[Chart]



Tested Date: 05 December 2022      Temperature: 22 degC  
Humidity: 36%                              Atmos. Press: 1016 hPa

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## 4 List of utilized test equipment / calibration

RFT ID No.	Kind of Equipment and Precision	Manufacturer	Model No.	Serial Number	Calibration Date	Calibrated until
AC01(EM)	Anechoic Chamber	JSE	203397C	-	2022/03/11	2023/03/31
AC01(EG)	Anechoic Chamber	JSE	203397C	-	2022/03/25	2023/03/31
BA07	Biological Antenna	TESEQ	CBL6143A	26670	2022/03/23	2023/03/31
DH06	DRG Horn Antenna	A.H. Systems	SAS-571	1339	2022/07/09	2024/07/31
PR12	Pre. Amplifier (1-26G)	Agilent Technologies	8449B	3008A02513	2022/01/14	2023/01/31
PR21	Pre. Amplifier	Anritsu	MH648A	6200467119	2022/03/23	2023/03/31
CL11	RF Cable for RE	RFT	-	-	2022/03/29	2023/03/31
CL38	RF Cable 2 m	Junkosha	MWX221	1603S626	2022/1/14	2023/01/31
CL39	RF Cable 5 m	SUHNER	SUCOFLEX126E	523222	2022/1/14	2023/01/31
CL72	RF Cable for CE	RFT	-	-	2022/01/11	2023/01/31
LN05	LISN	Kyoritsu	KNW-407F	8-1773-2	2022/09/28	2023/09/30
TR09	Test Receiver (F/W: 4.43 SP3)	Rohde & Schwarz	ESU8	100386	2022/09/28	2023/09/30
TR10	Test Receiver (F/W: 3.66)	Rohde & Schwarz	ESR26	101313	2022/04/01	2023/04/30

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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