



MEASUREMENT REPORT

FCC ID : SXEMUIP2213RF
IC : 9393B-MUIP2213RF
APPLICANT : Barco N.V.
Application Type : Certification
Product : LCD USER INTERFACE
Model No. : MUIP-2213
Brand Name : BARCO
FCC Classification : (DXX) Part 15 Low Power Communication Device Transmitter
FCC Rule Part(s) : Part 15.225
ISED Standard : RSS-210 Issue 10
Test Procedure(s) : ANSI C63.10-2013
Received Date : May 16, 2023
Test Date : May 22 ~ June 1, 2023

Tested By : *Kaunaz Lee*

(Kaunaz Lee)

Reviewed By : *Paddy Chen*
(Paddy Chen)

Approved By : *Chenz Ker*
(Chenz Ker)



The test results only relate to the tested sample.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2305TWA401-U2	1.0	Original Report	2023-07-14	

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§2.1033 General Information

Applicant	Barco N.V.
Applicant Address	President Kennedypark 35, Kortrijk 8500, Belgium
Manufacturer	Barco N.V.
Manufacturer Address	President Kennedypark 35, Kortrijk 8500, Belgium
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
MRT IC Registration No.	21723
Test Device Serial No.	#1-1 <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

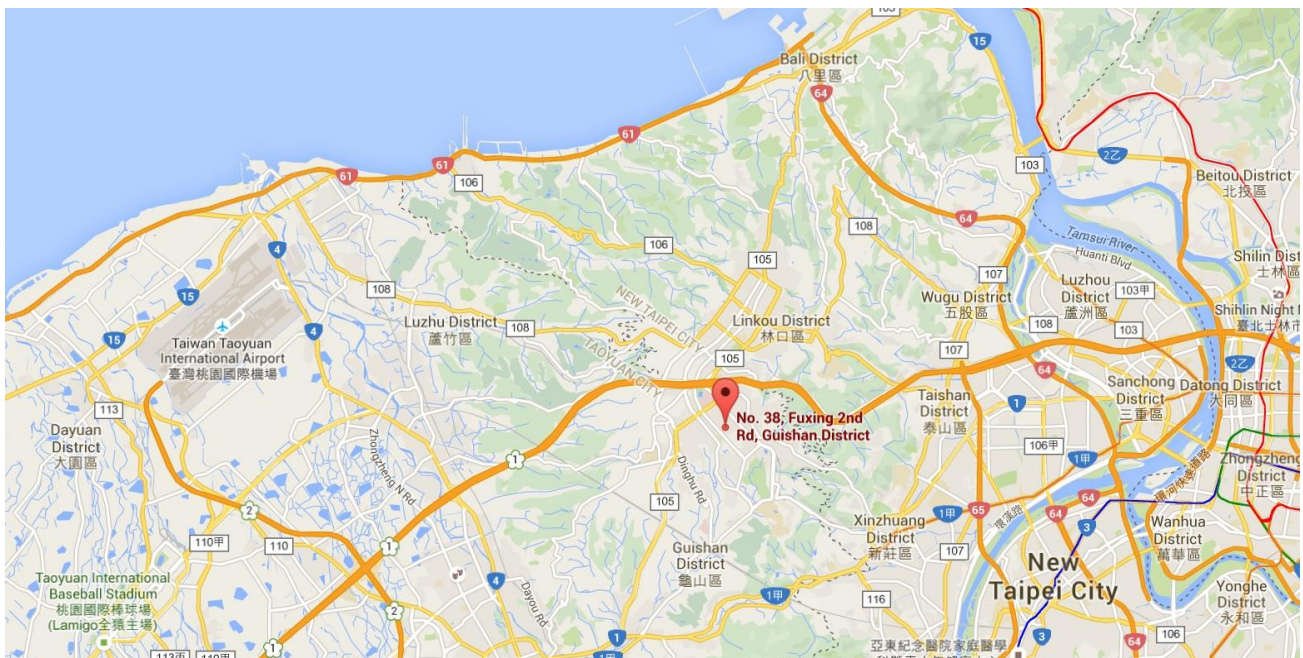
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	LCD USER INTERFACE
Model Number	MUIP-2213
Brand Name	BARCO
RFID Specification	13.56MHz
Modulation	ASK
Antenna Type	PCB Loop Antenna
Accessory	
Power Adapter	Brand Name: FIMI S.R.L Model: TR60M19 Input: AC 100-240V / 1.5~0.7A, 47-63Hz Output: DC 19V / 3.15A DC Cable Out Non-Shielding, 1.5m with Core*1

2.2. Test Mode

Test Mode	Mode 1: Transmit by RFID Mode 1: Receiver by RFID
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2.3. Test Software

N/A.

2.4. Test Configuration

The **LCD USER INTERFACE**, ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.6. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013) were used in the measurement of the **LCD USER INTERFACE** .

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.6.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions.

According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

Radiated Emissions test results are shown in Section 7.2 & 7.3 .

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of **LCD USER INTERFACE** is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **LCD USER INTERFACE** unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2024/3/7
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2024/4/17

Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2024/5/22
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2023/12/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emission- Power Line
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
Conducted Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 1.3\text{dB}$
Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~30MHz: $\pm 3.92\text{dB}$ 30MHz~1GHz: $\pm 4.25\text{dB}$ 1GHz~18GHz: $\pm 4.40\text{dB}$ 18GHz~40GHz: $\pm 4.45\text{dB}$

7. TEST RESULT

7.1. Summary

Product Name: LCD USER INTERFACE

FCC Classification: (DXX) Part 15 Low Power Communication Device Transmitter

FCC Part Section(s)	ISED Standard	Test Description	Test Limit	Test Condition	Test Result	Reference
15.225 (a)(b)(c)	RSS-210	Field Strength of Fundamental Emissions	FCC 15.225 RSS-210 B.6	Radiated	Pass	Section 7.2
15.225(d)	RSS-Gen	Radiated Spurious Emissions	FCC 15.209 RSS-Gen Table 4		Pass	Section 7.3
2.1049	RSS-Gen	20dB Bandwidth	N/A	Conducted	Pass	Section 7.4
15.225(e)	RSS-210	Frequency Stability	within $\pm 0.01\%$ of the operating frequency		Pass	Section 7.5
15.207	RSS-Gen	AC Conducted Emissions 150kHz - 30MHz	FCC 15.207 RSS-Gen Table 3	Line Conducted	Pass	Section 7.6

Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 3) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 4) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. Field Strength of Fundamental Emissions Measurement

7.2.1. Test Limit

FCC Part 15.225 & IC RSS-210 Limits				
Frequency (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 10m	Field Strength (dB $\mu\text{V/m}$) at 3m
1.705 – 13.110	30	29.5	48.58	69.5
13.110 – 13.410	106	40.5	59.98	80.5
13.410 – 13.553	334	50.5	69.58	90.5
13.553 – 13.567	15848	84	103.08	124
13.567 – 13.710	334	50.5	69.58	90.5
13.710 – 14.010	106	40.5	59.98	80.5
14.010 – 30.000	30	29.5	48.58	69.5

Note: Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).

7.2.2. Test Procedure used

(A) ANSI C63.10-2013 - Section 11.12.2.3 (quasi-peak measurements)

The specifications for measurements using the CISPR quasi-peak detector can be found in CISPR 16-1-1, As an alternative to CISPR quasi-peak measurement, compliance can be determined for the applicable emission requirements using a peak detector.

(B) ANSI C63.10-2013 - Section 11.12.2.4 (peak power measurements)

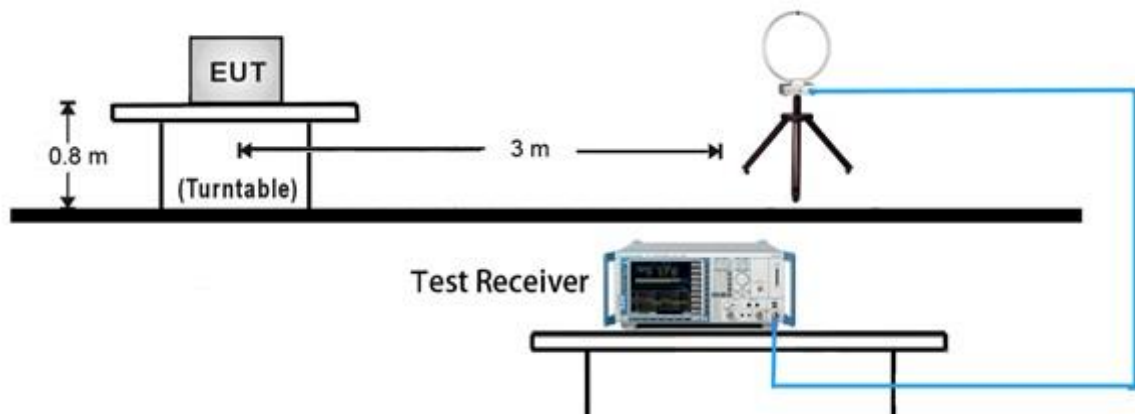
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 kHz ~ 150 kHz	200 Hz ~ 300 Hz
0.15 MHz ~ 30 MHz	9 kHz ~ 10 kHz

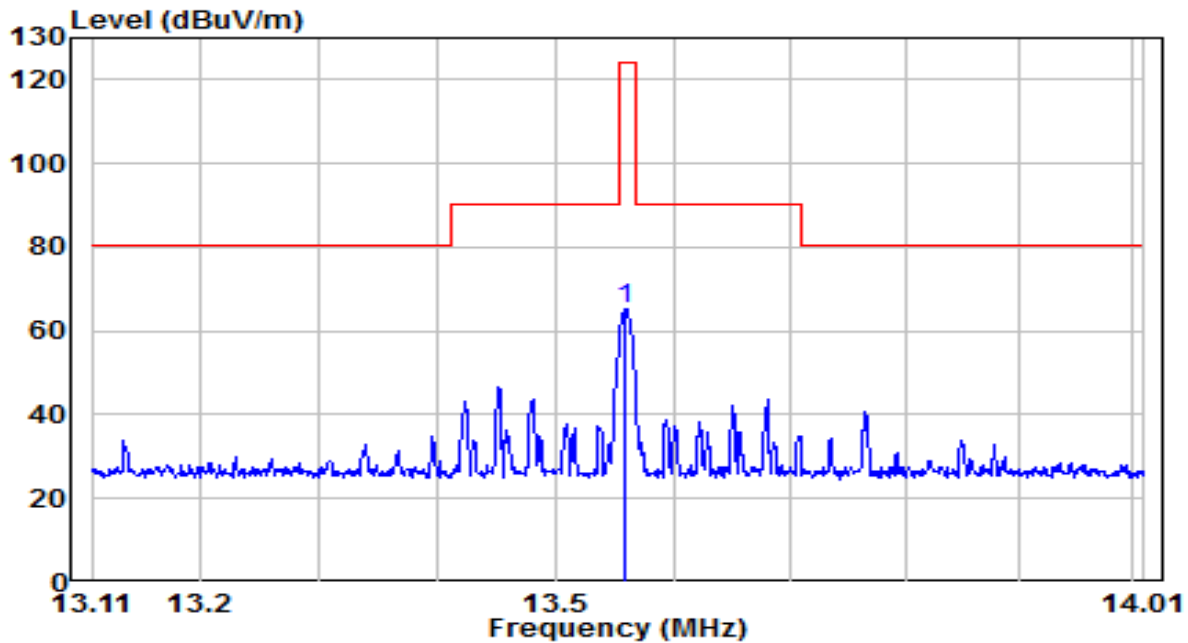
7.2.3. Test Setup

9kHz ~ 30MHz Test Setup:



7.2.4. Test Result

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz



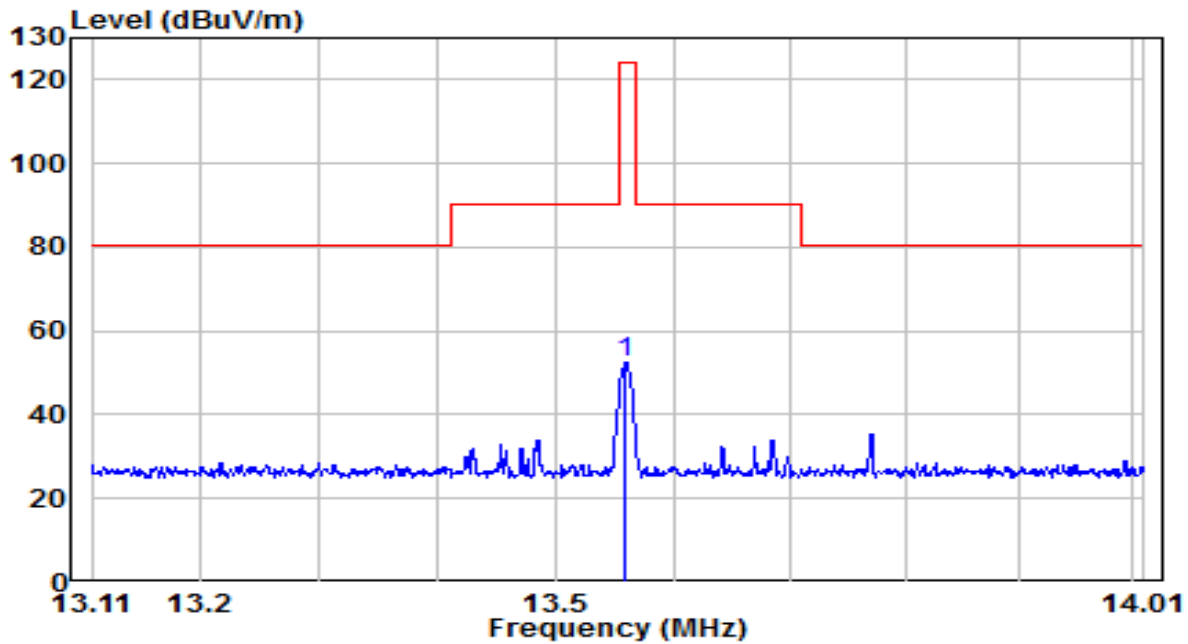
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	43.34	21.91	65.25	-58.75	124.00	100	360	Peak

Frequency (MHz)	Measurement @3m (dBuV/m)	Distance extrapolation factor (dB)	Measurement@30m (dBuV/m)	Limit@30m (dBuV/m)
13.559	65.25	40	25.25	84

Note:

- "*" means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	30.50	21.91	52.41	-71.59	124.00	100	360	Peak

Frequency (MHz)	Measurement @3m (dBuV/m)	Distance extrapolation factor (dB)	Measurement@30m (dBuV/m)	Limit@30m (dBuV/m)
13.559	52.41	40	12.41	84

Note:

- "*" means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

7.3. Radiated Spurious Emissions Measurement

7.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.225 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 & IC RSS-GEN Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note : The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

7.3.2. Test Procedure Used

(A) ANSI C63.10-2013 - Section 11.12.2.3 (quasi-peak measurements)

The specifications for measurements using the CISPR quasi-peak detector can be found in CISPR 16-1-1. As an alternative to CISPR quasi-peak measurement, compliance can be determined for the applicable emission requirements using a peak detector.

(B) ANSI C63.10-2013 - Section 11.12.2.4 (peak power measurements)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = $3 \times \text{RBW}$
4. Detector = peak
5. Sweep time = auto couple

Table 1 - RBW as a function of frequency

Frequency	RBW
9 kHz ~ 150 kHz	200 Hz ~ 300 Hz
0.15 MHz ~ 30 MHz	9 kHz ~ 10 kHz
30 MHz ~ 1000 MHz	100 kHz ~ 120 kHz
> 1000 MHz	1 MHz

(C) ANSI C63.10-2013 - Section 11.12.2.5 (average power measurements)

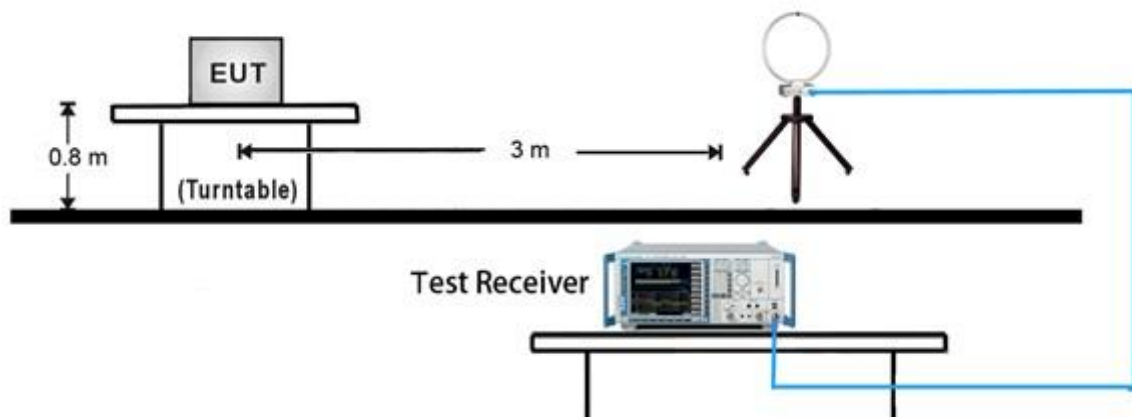
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. Video bandwidth mode or display mode:
 - 1) The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS (power averaging) and setting the average-VBW type to power (rms).
 - 2) As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode to accomplish this. Others have a setting for average-VBW type, which can be set to "voltage" regardless of the display mode. Detector =

Peak

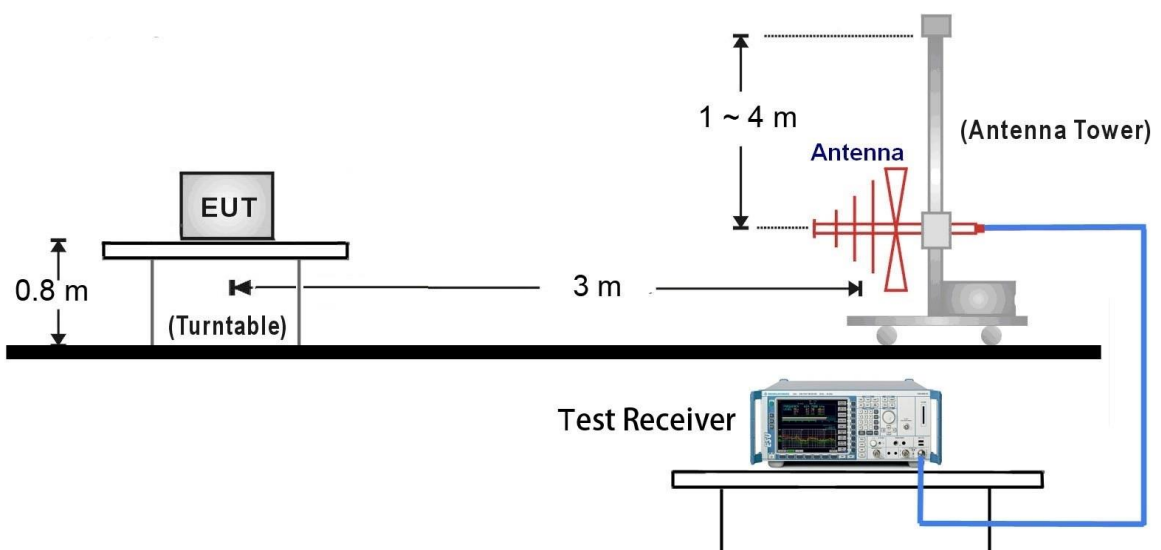
5. Sweep time = auto
6. Trace mode = max hold
7. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.3.3. Test Setup

9kHz ~ 30MHz Test Setup:

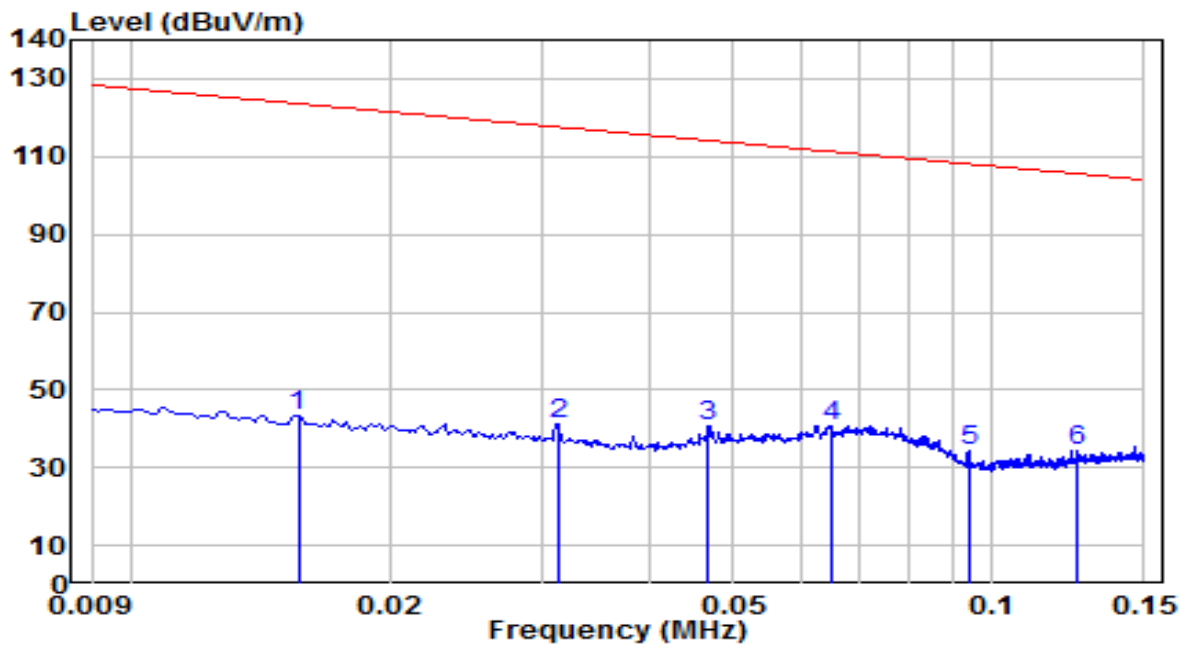


30MHz ~ 1GHz Test Setup:



7.3.4. Test Result

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

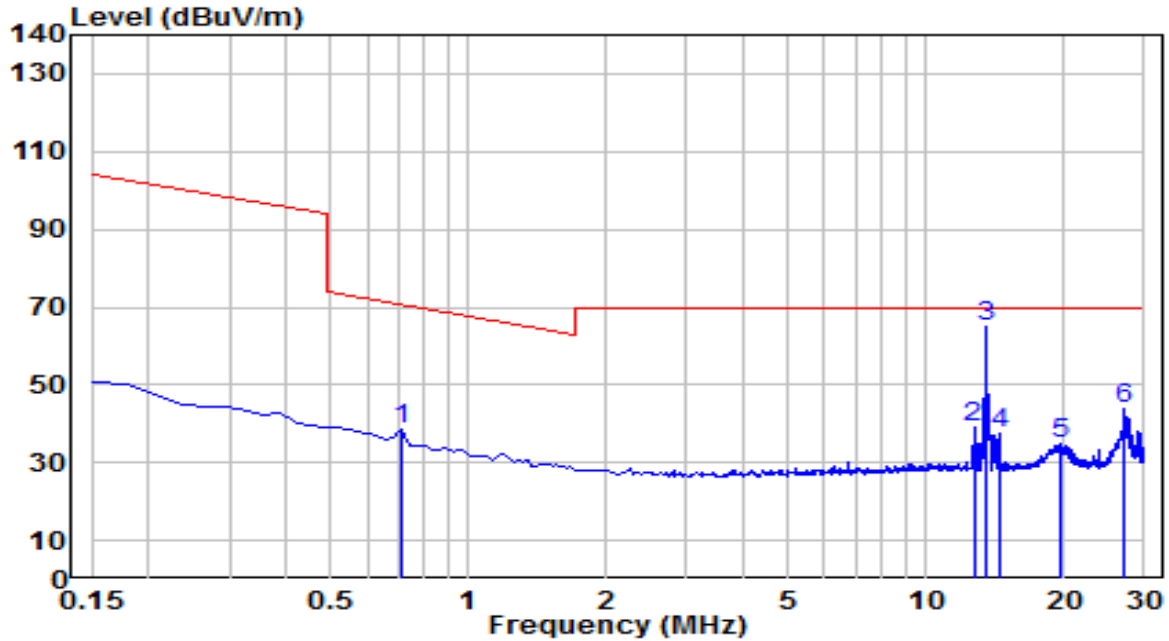


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.016	25.19	18.14	43.34	-80.37	123.71	100	360	Peak
2	0.031	21.48	19.50	40.98	-76.71	117.69	100	360	Peak
3	0.047	21.53	19.34	40.88	-73.32	114.19	100	360	Peak
4	* 0.065	21.96	18.92	40.88	-70.48	111.36	100	360	Peak
5	0.094	16.30	18.17	34.47	-73.69	108.16	100	360	Peak
6	0.125	16.01	18.12	34.13	-71.53	105.66	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

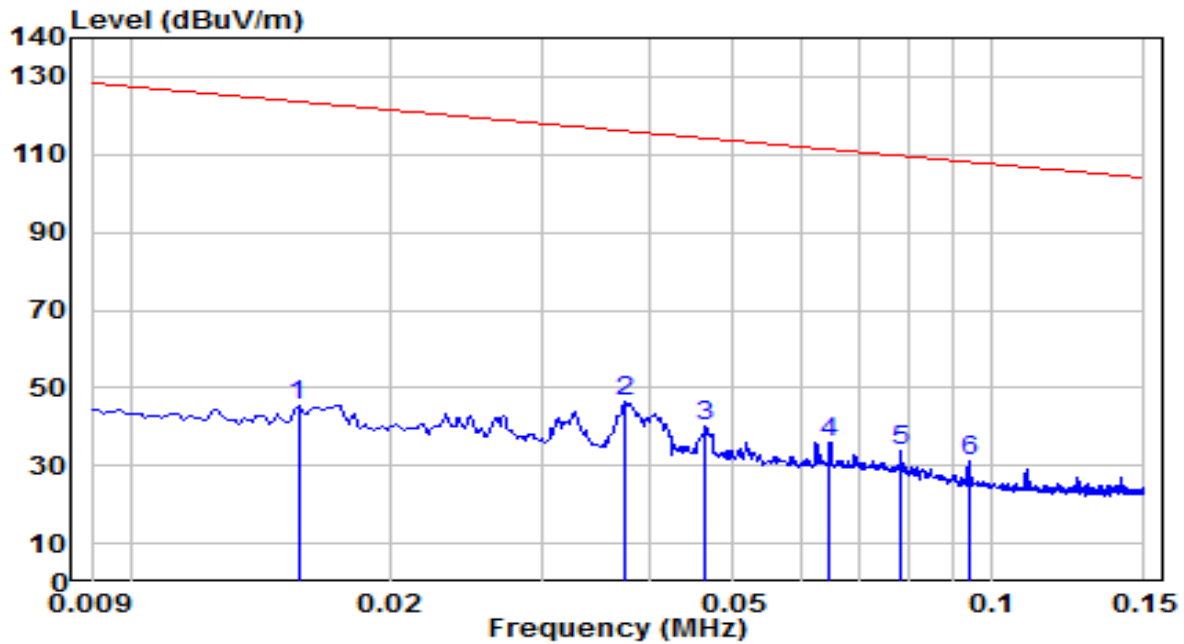


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.717	19.93	18.84	38.77	-31.73	70.50	100	360	Peak
2	12.717	17.56	21.79	39.35	-30.15	69.50	100	360	Peak
3	* 13.553	43.07	21.91	64.99	-4.51	69.50	100	360	Peak
4	14.418	15.73	22.04	37.76	-31.74	69.50	100	360	Peak
5	19.642	11.92	22.75	34.67	-34.83	69.50	100	360	Peak
6	27.134	21.24	22.73	43.97	-25.53	69.50	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- This frequency is 13.553MHz RFID operating frequency.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

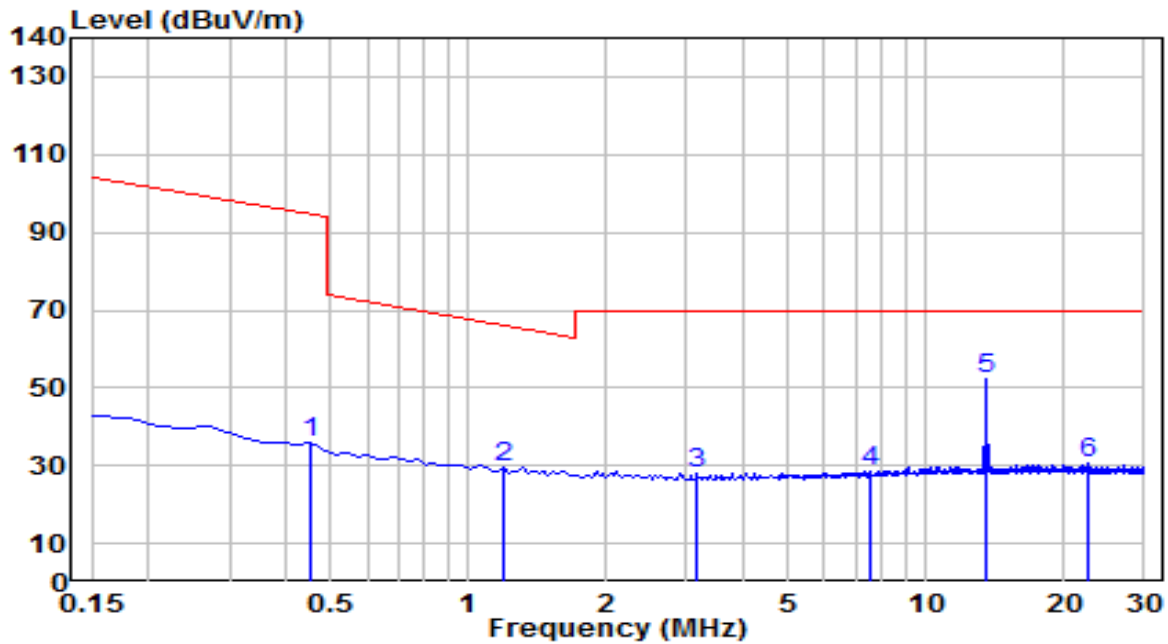


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.016	27.46	18.14	45.61	-78.10	123.71	100	360	Peak
2	* 0.037	27.11	19.44	46.55	-69.57	116.12	100	360	Peak
3	0.047	20.64	19.34	39.98	-74.26	114.24	100	360	Peak
4	0.065	17.12	18.93	36.05	-75.33	111.38	100	360	Peak
5	0.078	14.97	18.58	33.55	-76.20	109.75	100	360	Peak
6	0.094	12.90	18.17	31.07	-77.09	108.16	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

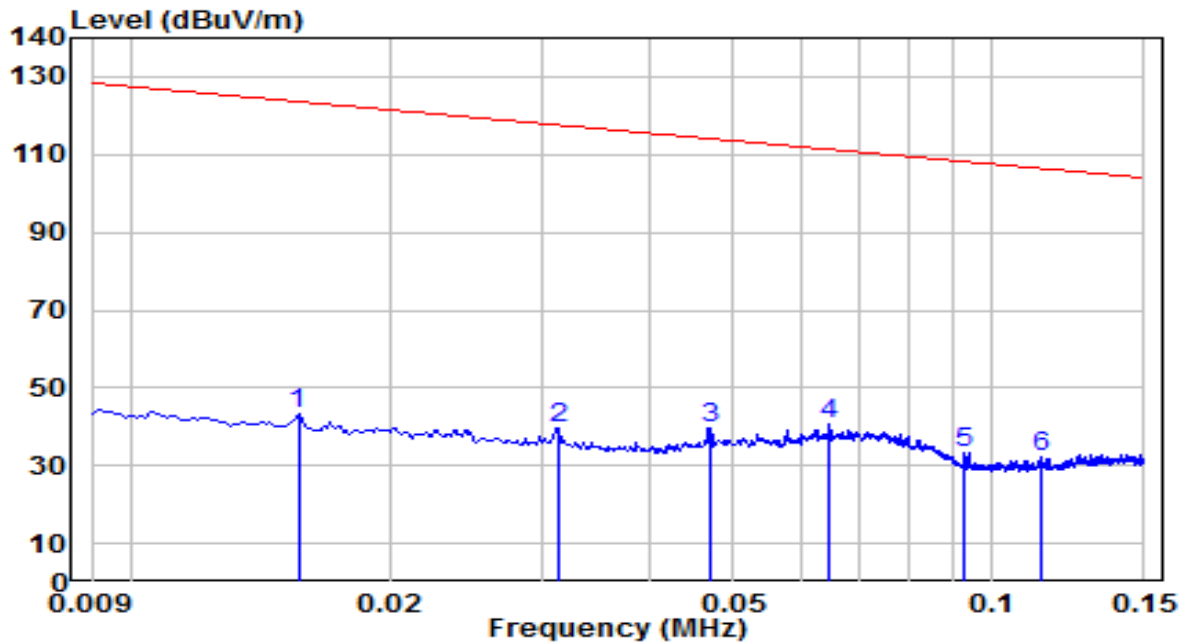


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.449	17.21	18.79	36.00	-58.57	94.57	100	360	Peak
2	1.195	10.80	18.96	29.76	-36.32	66.08	100	360	Peak
3	3.165	9.20	18.88	28.08	-41.42	69.50	100	360	Peak
4	7.523	8.26	20.40	28.66	-40.84	69.50	100	360	Peak
5 *	13.553	30.59	21.91	52.50	-17.00	69.50	100	360	Peak
6	22.687	7.97	22.77	30.74	-38.76	69.50	100	360	Peak

Note:

- " *", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- This frequency is 13.553MHz RFID operating frequency.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	RX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

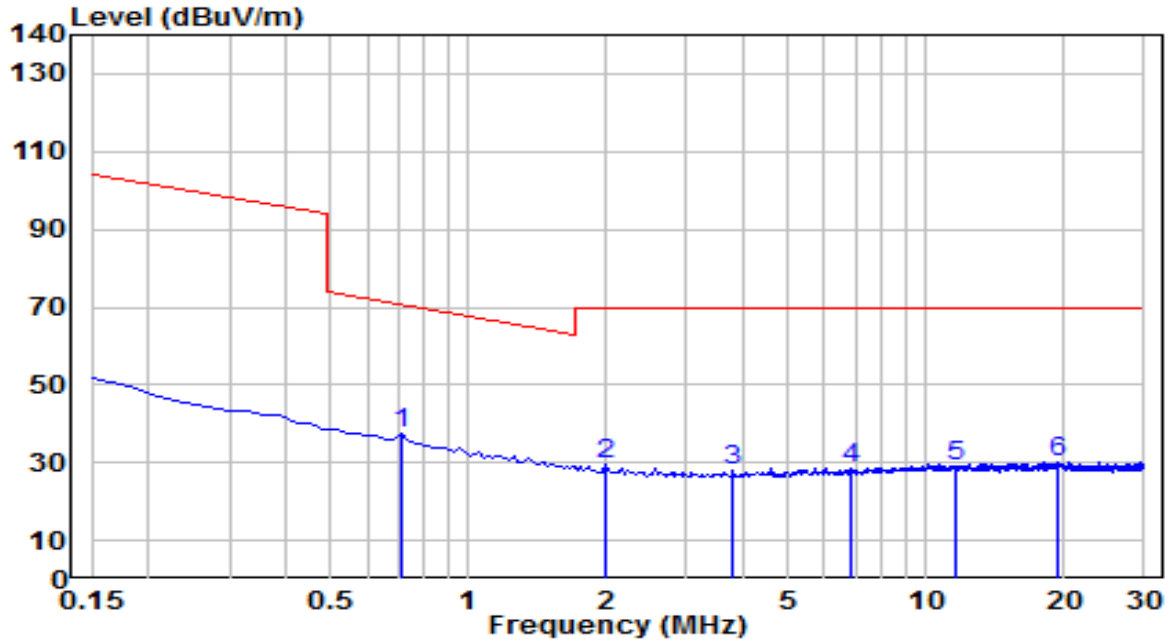


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.016	25.18	18.14	43.32	-80.39	123.71	100	360	Peak
2	0.031	20.02	19.50	39.52	-78.17	117.69	100	360	Peak
3	0.047	20.28	19.34	39.62	-74.55	114.17	100	360	Peak
4	* 0.065	21.50	18.93	40.43	-70.95	111.38	100	360	Peak
5	0.093	15.05	18.20	33.25	-75.00	108.25	100	360	Peak
6	0.114	14.35	18.07	32.42	-74.03	106.45	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	RX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

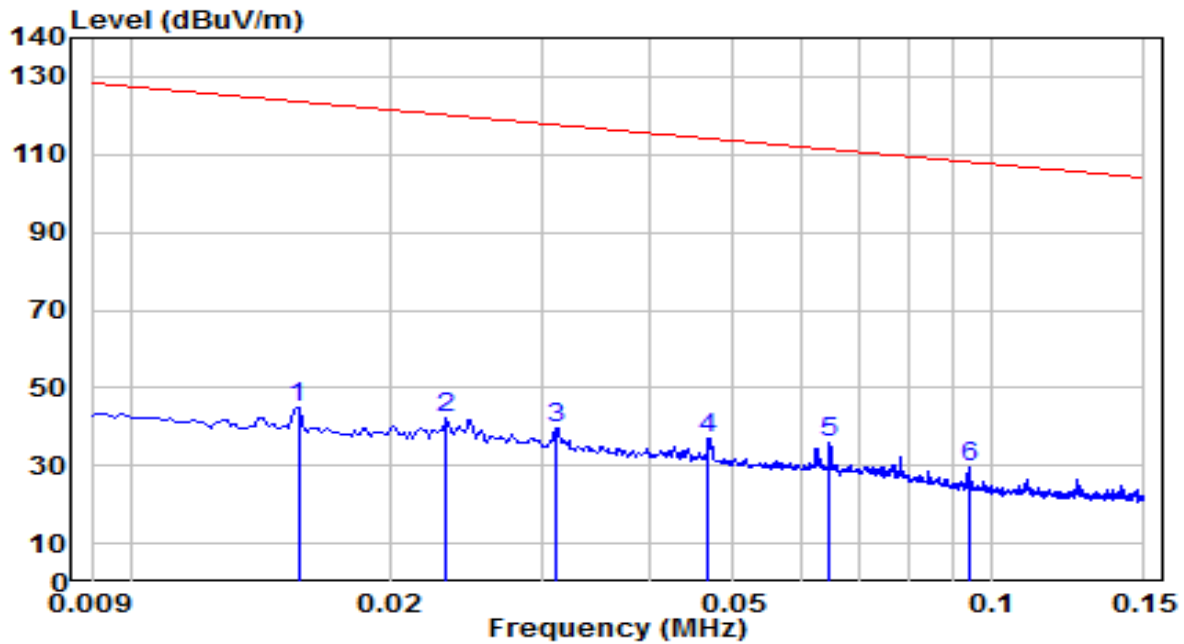


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 0.717	18.83	18.84	37.67	-32.83	70.50	100	360	Peak
2	2.001	10.64	18.90	29.54	-39.96	69.50	100	360	Peak
3	3.792	8.94	19.05	27.99	-41.51	69.50	100	360	Peak
4	6.836	8.65	20.13	28.78	-40.72	69.50	100	360	Peak
5	11.583	7.59	21.63	29.21	-40.29	69.50	100	360	Peak
6	19.433	7.37	22.72	30.10	-39.40	69.50	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	RX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

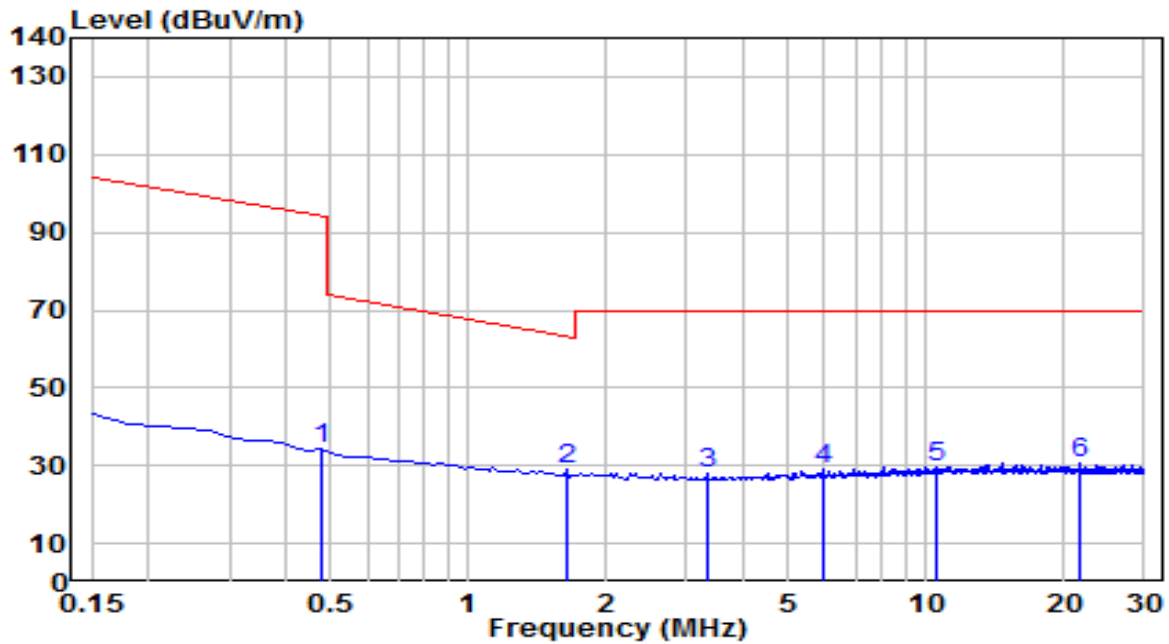


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.016	26.53	18.14	44.67	-79.04	123.71	100	360	Peak
2	0.023	23.49	18.87	42.35	-77.91	120.27	100	360	Peak
3	0.031	20.25	19.50	39.75	-77.97	117.73	100	360	Peak
4	0.047	17.72	19.34	37.06	-77.13	114.19	100	360	Peak
5	* 0.065	16.86	18.93	35.79	-75.59	111.38	100	360	Peak
6	0.094	11.57	18.17	29.74	-78.42	108.16	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-25
Factor	FMZB 1519B	Temp. / Humidity	24°C /71%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	RX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

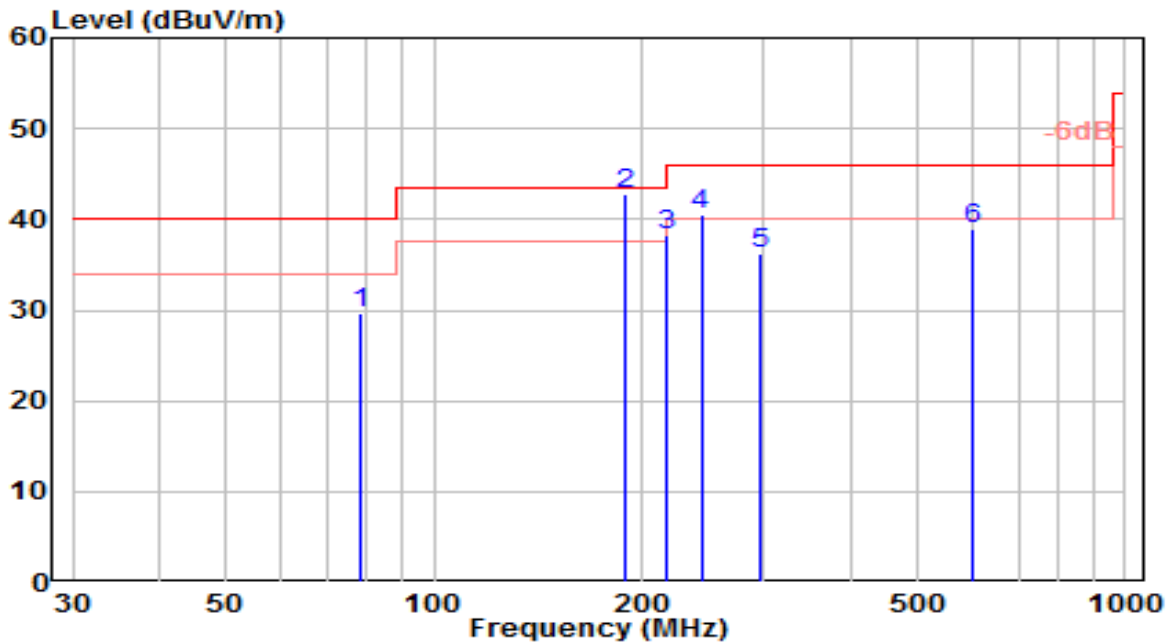


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.478	15.39	18.76	34.15	-59.86	94.01	100	360	Peak
2	* 1.643	9.94	18.93	28.86	-34.46	63.32	100	360	Peak
3	3.314	9.18	18.92	28.10	-41.40	69.50	100	360	Peak
4	5.941	9.08	19.77	28.85	-40.65	69.50	100	360	Peak
5	10.478	8.13	21.47	29.60	-39.90	69.50	100	360	Peak
6	21.761	8.07	22.78	30.85	-38.65	69.50	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-22
Factor	VULB 9162	Temp. / Humidity	24°C /67%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz

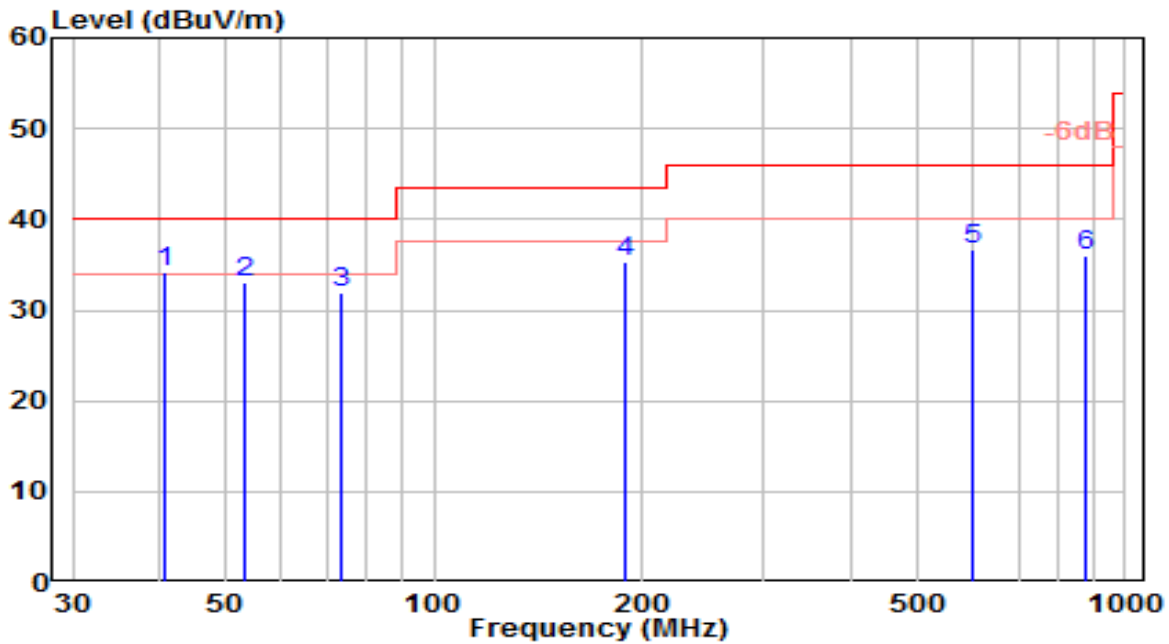


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	78.500	15.55	14.07	29.61	-10.39	40.00	150	40	QP
2	* 189.080	25.00	17.79	42.79	-0.71	43.50	100	25	QP
3	216.240	19.87	18.49	38.36	-7.64	46.00	100	20	QP
4	243.400	20.38	20.05	40.44	-5.56	46.00	100	35	QP
5	297.720	15.33	20.97	36.30	-9.70	46.00	100	360	QP
6	599.390	11.40	27.58	38.98	-7.02	46.00	100	25	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Pre-amplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-22
Factor	VULB 9162	Temp. / Humidity	24°C /67%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz

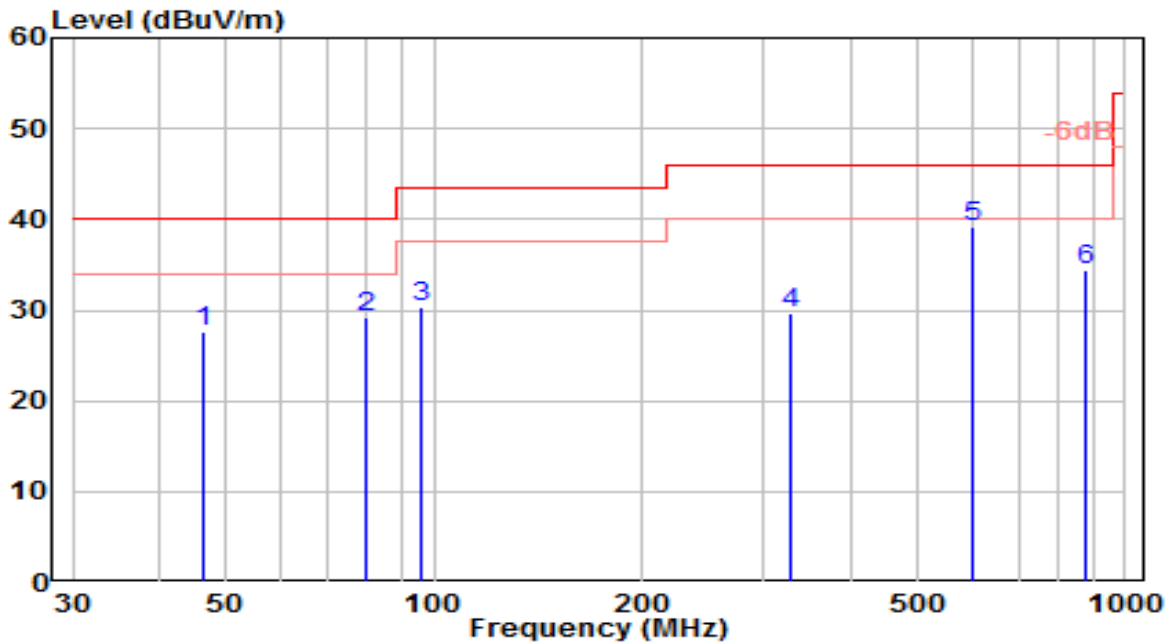


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 40.670	14.51	19.61	34.12	-5.88	40.00	100	240	QP
2	53.280	12.55	20.44	32.99	-7.01	40.00	100	355	QP
3	73.650	16.74	15.10	31.84	-8.16	40.00	150	10	QP
4	189.080	17.54	17.79	35.33	-8.17	43.50	150	310	QP
5	599.390	9.10	27.58	36.69	-9.31	46.00	150	45	QP
6	879.720	4.42	31.55	35.98	-10.02	46.00	100	355	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Pre-amplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-22
Factor	VULB 9162	Temp. / Humidity	24°C /67%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	RX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz

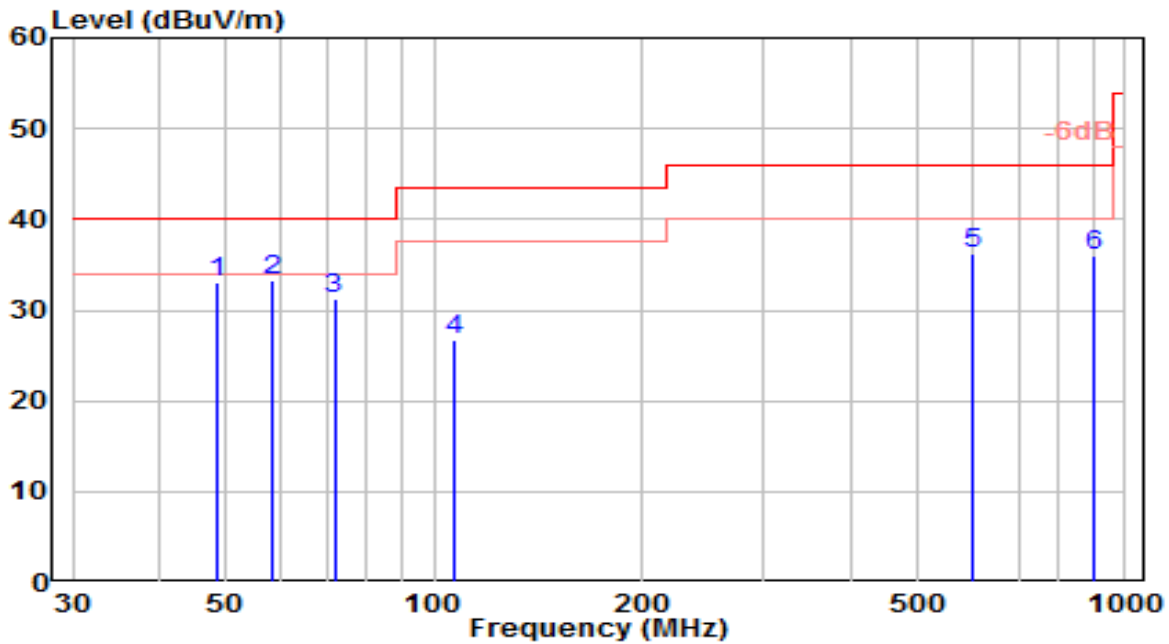


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	46.490	6.81	20.71	27.51	-12.49	40.00	150	210	QP
2	79.470	15.46	13.86	29.32	-10.68	40.00	150	40	QP
3	95.960	12.31	18.06	30.36	-13.14	43.50	150	275	QP
4	326.820	7.64	22.04	29.67	-16.33	46.00	100	0	QP
5 *	599.390	11.63	27.58	39.21	-6.79	46.00	100	35	QP
6	875.840	2.94	31.53	34.47	-11.53	46.00	100	35	QP

Note:

- " *", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	LCD USER INTERFACE	Date of Test	2023-05-22
Factor	VULB 9162	Temp. / Humidity	24°C /67%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	RX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	48.430	12.30	20.84	33.15	-6.85	40.00	100	300	QP
2	* 58.130	13.57	19.70	33.27	-6.73	40.00	100	360	QP
3	71.710	15.80	15.51	31.30	-8.70	40.00	100	10	QP
4	106.630	8.12	18.53	26.65	-16.85	43.50	100	330	QP
5	599.390	8.65	27.58	36.23	-9.77	46.00	150	25	QP
6	900.090	4.40	31.67	36.08	-9.92	46.00	100	360	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

7.4. 20dB Bandwidth Measurement

7.4.1. Test Limit

N/A

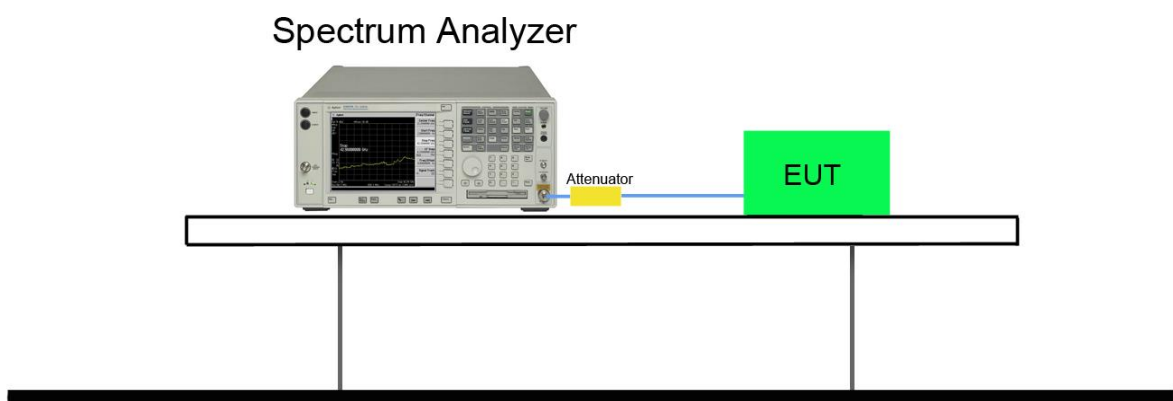
7.4.2. Test Procedure Used

KDB 789033 D02v01r01 – Section C.1

7.4.3. Test Setting

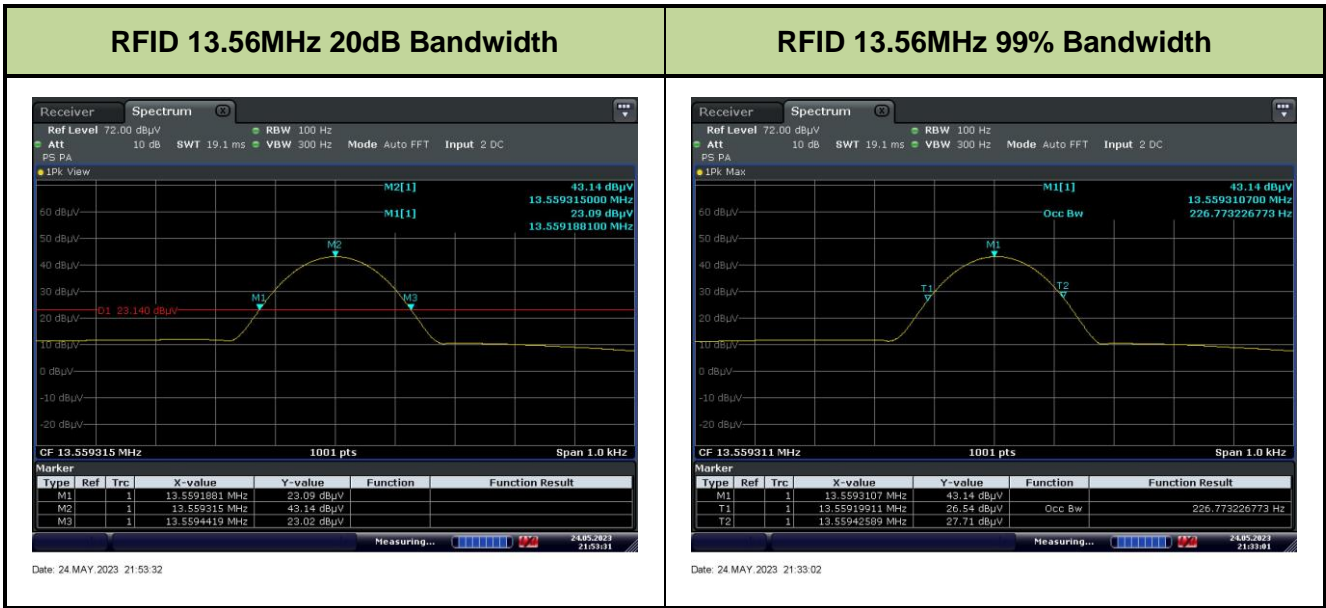
1. The analyzers' automatic bandwidth measurement capability was used to perform the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 20$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% ~5% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.4.4. Test Setup



7.4.5. Test Result

Test Mode	Frequency (MHz)	20dB Bandwidth (Hz)	99% Bandwidth (Hz)
RFID	13.65	253.80	226.77



7.5. Frequency Stability Measurement

7.5.1. Test Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.5.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

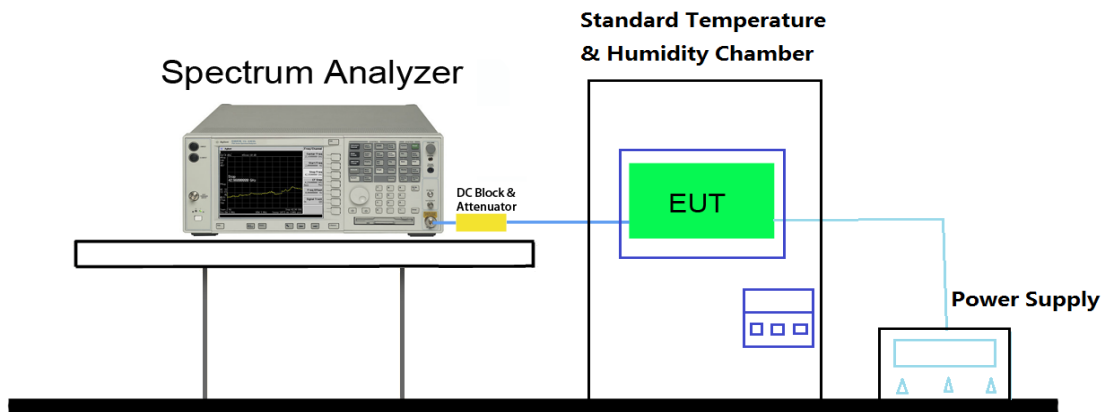
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.5.3. Test Setup



7.5.4. Test Result

Test Engineer	Xuan Yu	Temperature	-20 ~ 50°C
Test Time	2023/5/31	Relative Humidity	52%RH

RFID 13.56MHz Frequency Stability					
Temperature vs. Frequency Stability					
Voltage (%)	Power (VAC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	120V/60Hz	- 20	13.5593	-51.62	±100
		- 10	13.5593	-51.62	±100
		0	13.5593	-51.62	±100
		+ 10	13.5593	-51.62	±100
		+ 20 (Ref)	13.5593	-51.62	±100
		+ 30	13.5592	-59.00	±100
		+ 40	13.5593	-51.62	±100
		+ 50	13.5593	-51.62	±100
Test Result			PASS		
Voltage vs. Frequency Stability					
Voltage (%)	Power (VAC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	120V/60Hz	+ 20	13.5593	-51.62	±100
115%	138V/60Hz	+ 20	13.5593	-51.62	±100
85%	102V/60Hz	+ 20	13.5592	-59.00	±100
Test Result			PASS		

Note:

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) – Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.6. AC Conducted Emissions Measurement

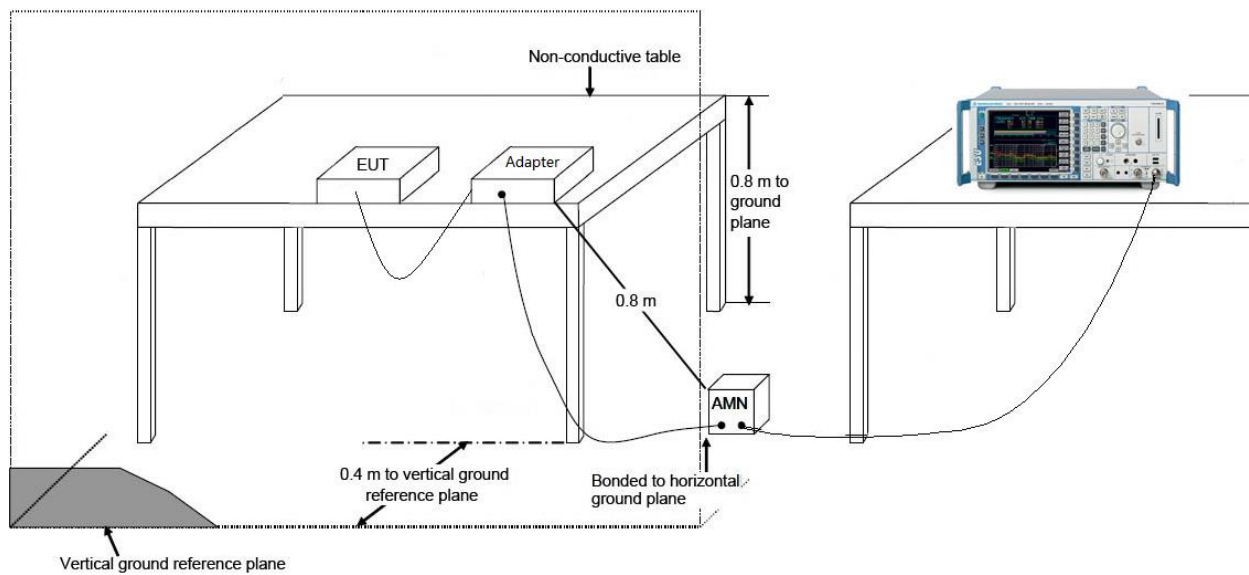
7.6.1. Test Limit

FCC Part 15 Subpart C & IC RSS-GEN Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

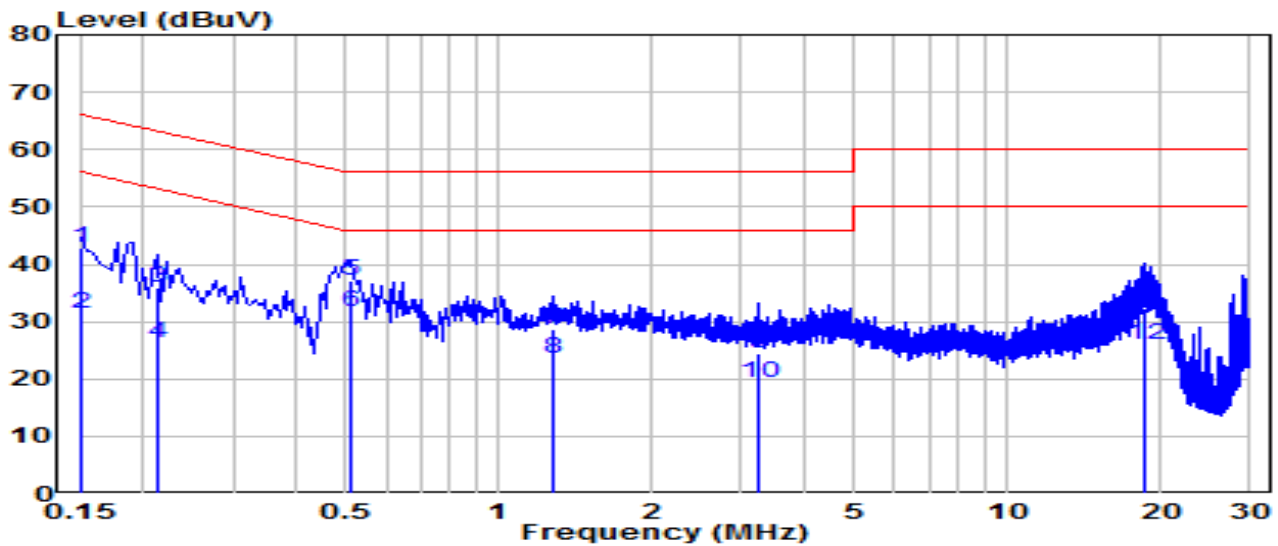
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.6.2. Test Setup



7.6.3. Test Result

EUT	LCD USER INTERFACE	Date of Test	2023-06-01
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.8°C /57%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

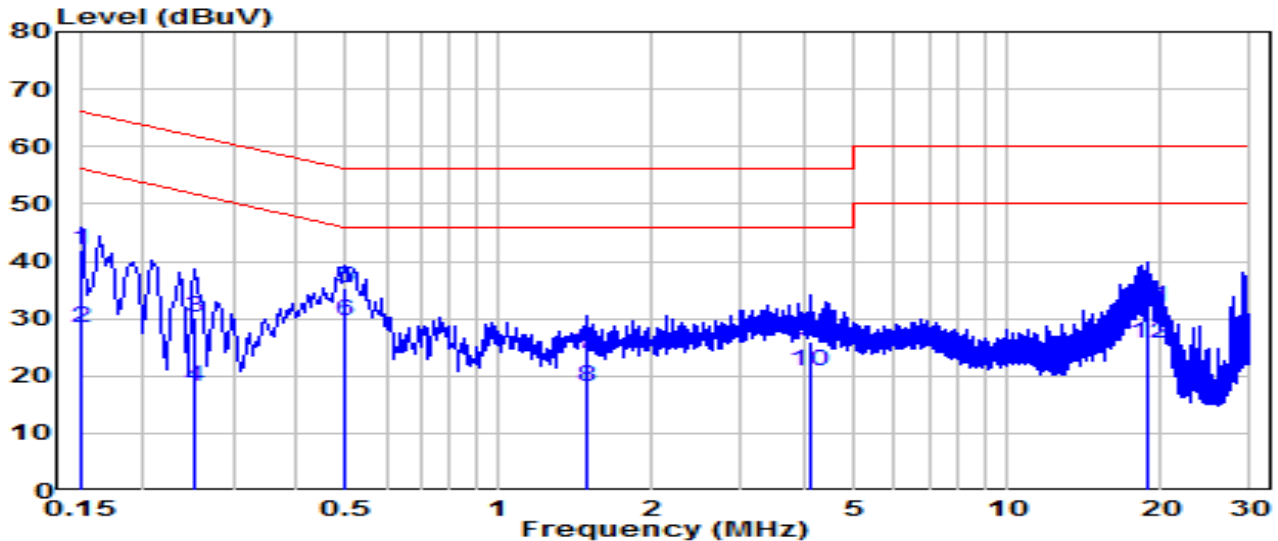


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	33.22	9.62	42.84	-23.16	66.00	QP
2	0.150	21.72	9.62	31.34	-24.66	56.00	Average
3	0.213	26.20	9.62	35.82	-27.27	63.09	QP
4	0.213	16.73	9.62	26.36	-26.73	53.09	Average
5	* 0.514	27.64	9.64	37.28	-18.72	56.00	QP
6	* 0.514	22.04	9.64	31.68	-14.32	46.00	Average
7	1.279	19.08	9.68	28.76	-27.24	56.00	QP
8	1.279	13.78	9.68	23.45	-22.55	46.00	Average
9	3.237	14.88	9.71	24.60	-31.40	56.00	QP
10	3.237	9.68	9.71	19.40	-26.60	46.00	Average
11	18.526	22.30	9.92	32.22	-27.78	60.00	QP
12	18.526	15.98	9.92	25.89	-24.11	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	LCD USER INTERFACE	Date of Test	2023-06-01
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.8°C /57%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 120V/60Hz

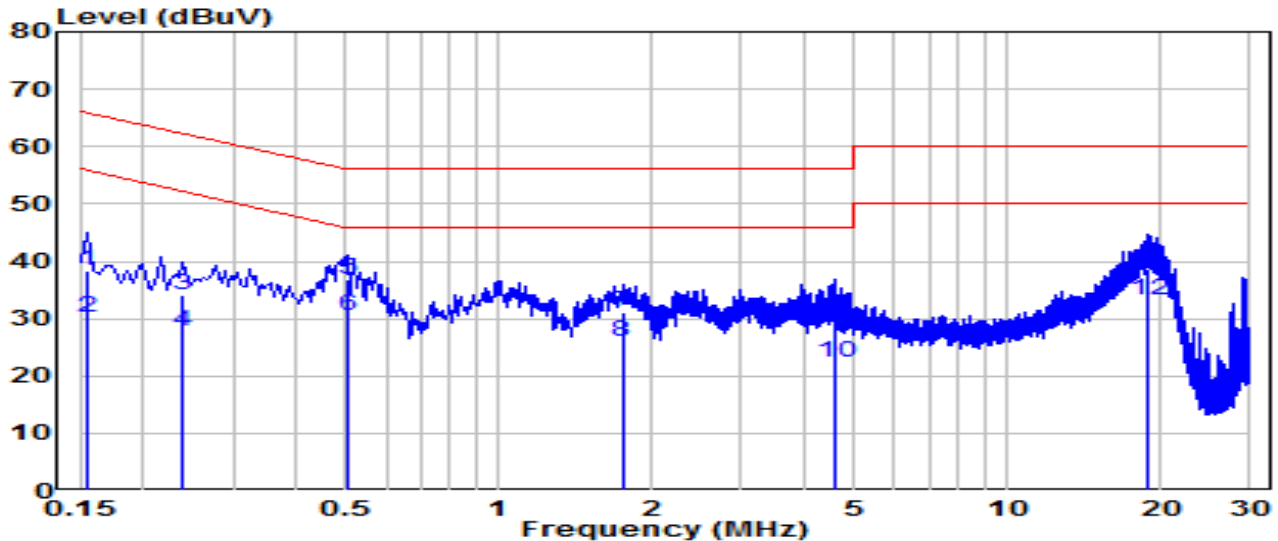


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	32.33	9.62	41.95	-24.05	66.00	QP
2	0.150	18.70	9.62	28.32	-27.68	56.00	Average
3	0.253	20.59	9.63	30.22	-31.42	61.64	QP
4	0.253	8.54	9.63	18.16	-33.48	51.64	Average
5	* 0.496	25.82	9.64	35.46	-20.60	56.06	QP
6	* 0.496	20.06	9.64	29.70	-16.35	46.06	Average
7	1.491	14.03	9.68	23.71	-32.29	56.00	QP
8	1.491	8.40	9.68	18.08	-27.92	46.00	Average
9	4.074	16.27	9.73	26.00	-30.00	56.00	QP
10	4.074	11.08	9.73	20.81	-25.19	46.00	Average
11	18.940	22.04	9.99	32.02	-27.98	60.00	QP
12	18.940	15.80	9.99	25.78	-24.22	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	LCD USER INTERFACE	Date of Test	2023-06-01
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.8°C /57%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 240V/60Hz

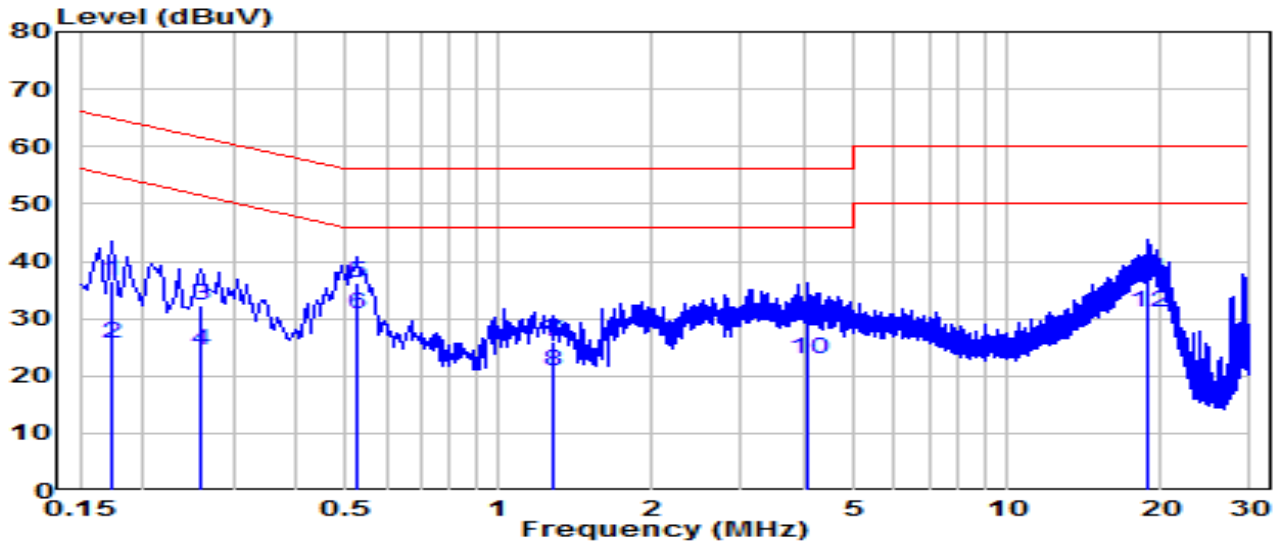


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.154	28.81	9.62	38.43	-27.32	65.75	QP
2	0.154	20.44	9.62	30.06	-25.69	55.75	Average
3	0.240	24.54	9.63	34.17	-27.93	62.10	QP
4	0.240	18.27	9.63	27.90	-24.20	52.10	Average
5	* 0.505	27.16	9.64	36.80	-19.20	56.00	QP
6	* 0.505	20.70	9.64	30.34	-15.66	46.00	Average
7	1.747	21.43	9.68	31.11	-24.89	56.00	QP
8	1.747	16.29	9.68	25.98	-20.02	46.00	Average
9	4.569	19.23	9.74	28.97	-27.03	56.00	QP
10	4.569	12.72	9.74	22.45	-23.55	46.00	Average
11	18.792	28.78	9.92	38.70	-21.30	60.00	QP
12	18.792	23.30	9.92	33.22	-16.78	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	LCD USER INTERFACE	Date of Test	2023-06-01
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.8°C /57%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	TX_RFID 13.56MHz	Test Voltage	AC 240V/60Hz



No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	0.172	26.87	9.62	36.49	-28.35	64.84	QP
2	0.172	16.17	9.62	25.79	-29.05	54.84	Average
3	0.258	22.60	9.63	32.22	-29.27	61.50	QP
4	0.258	14.82	9.63	24.45	-27.05	51.50	Average
5	* 0.528	26.64	9.64	36.28	-19.72	56.00	QP
6	* 0.528	21.17	9.64	30.81	-15.19	46.00	Average
7	1.275	16.20	9.68	25.87	-30.13	56.00	QP
8	1.275	11.19	9.68	20.86	-25.14	46.00	Average
9	4.038	18.88	9.73	28.61	-27.39	56.00	QP
10	4.038	13.25	9.73	22.98	-23.02	46.00	Average
11	18.801	26.71	9.98	36.69	-23.31	60.00	QP
12	18.801	21.21	9.98	31.19	-18.81	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBUV) = Reading(dBUV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **LCD USER INTERFACE** is in compliance with Part 15.225 of the FCC Rules.

Appendix A : Test Photograph

Refer to “2305TWA401-UT” file.

Appendix B : External Photograph

Refer to “2305TWA401-UE” file.

Appendix C : Internal Photograph

Refer to “2305TWA401-UI” file.

————— The End —————