

# RADIO PERFORMANCE TEST REPORT

**Test Report No.** : OT-212-RWD-076

**Reception No.** : 2101000270

**Applicant** : Charmcare Co.,Ltd.

**Address** : (Gasan-dong, Woolim Lions2-cha), 714, 2, Gasandigital1-ro, Guemcheon-gu, Seoul, Korea

**Manufacturer** : Charmcare Co.,Ltd.

**Address** : (Gasan-dong, Woolim Lions2-cha), 714, 2, Gasandigital1-ro, Guemcheon-gu, Seoul, Korea

**Type of Equipment** : Automated electronic sphygmomanometer

**FCC ID.** : 2AUYU-4A01

**Model Name** : H2-BP

**Multiple Model Name** : H2-BPL

**Serial number** : N/A

**Total page of Report** : 34 pages (including this page)

**Date of Incoming** : January 29, 2021

**Date of issue** : February 18, 2021

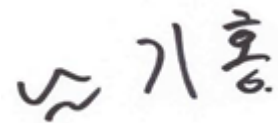
## SUMMARY

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247*

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.





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**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-212-RWD-076	February 18, 2021	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : Charmcare Co.,Ltd.  
 Address : (Gasandigital1-ro, Guemcheon-gu, Seoul, Korea  
 Contact Person : DongHwa Lee / CEO  
 Telephone No. : +82-70-4742-7878  
 FCC ID : 2AUYU-4A01  
 Model Name : H2-BP  
 Brand Name : N/A  
 Serial Number : N/A  
 Date : February 18, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Automated electronic sphygmomanometer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. TEST SUMMARY

### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

### 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

### 2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

### 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

### 3. GENERAL INFORMATION

#### 3.1 Product Description

The Charmcare Co.,Ltd., Model H2-BP (referred to as the EUT in this report) is a Automated electronic sphygmomanometer. The product specification described herein was obtained from product data sheet or user’s manual.

Device Type	Automated electronic sphygmomanometer
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-3.65 dBm
Number of Channel	40 Channels
Modulation Type	GFSK
Antenna Type	Chip Antenna
Antenna Gain	0.5 dBi
Rated Supply Voltage	DC 3.7 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz, 64 MHz

#### 3.2 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
H2-BP	Basic Model	<input checked="" type="checkbox"/>
H2-BPL	This model is identical to the basic model except for the difference of Product size depending on the wrist size.	<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

### 4. EUT MODIFICATIONS

-. None

## 5. SYSTEM TEST CONFIGURATION

### 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Charmcare Co.,Ltd.	N/A	N/A

### 5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
H2-BP	Charmcare Co.,Ltd.	Automated electronic sphygmomanometer (EUT)	

### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 402 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis, but the worst data was recorded in this report.

-. Frequency / Channel Operations

Channel	Frequency
0	2 402
19	2 440
39	2 480



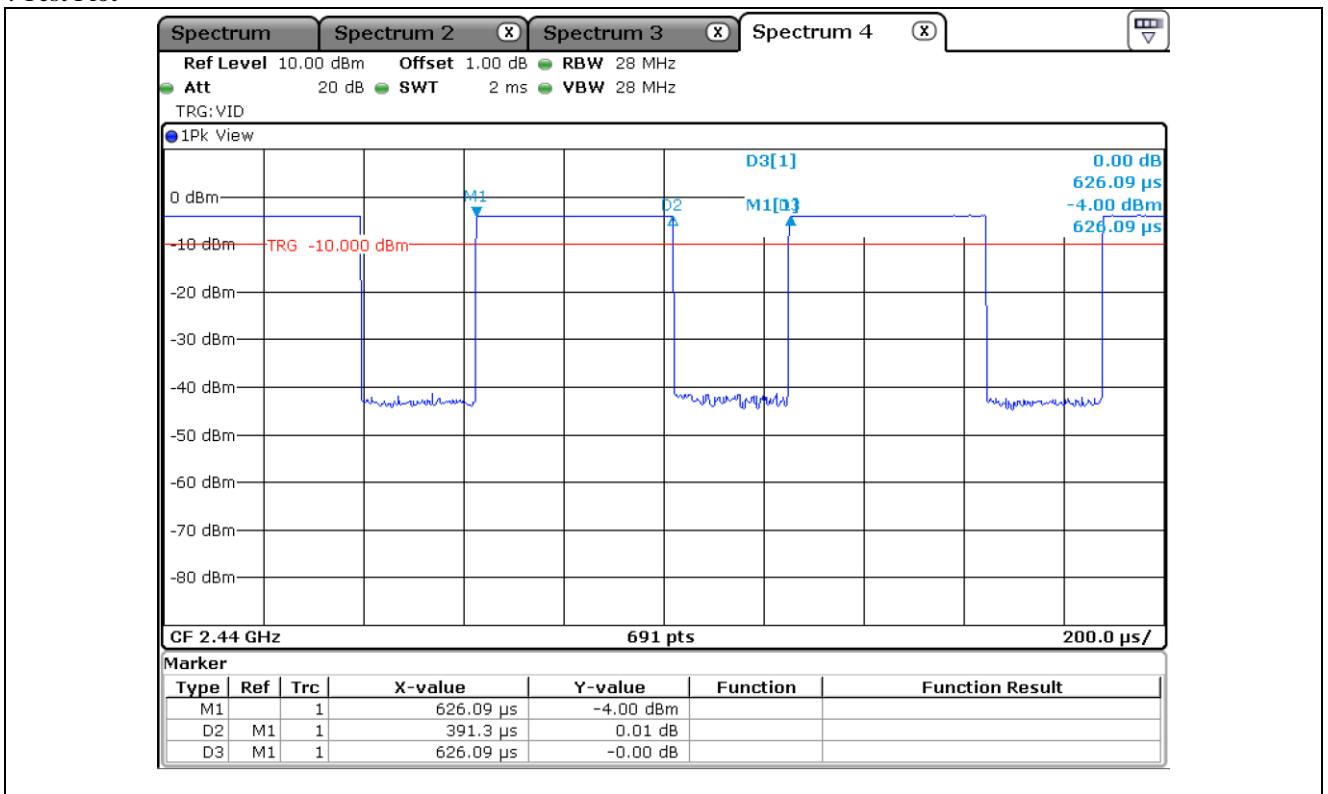
- Duty Cycle

Mode	Tx On Time [ ms ]	Tx Off Time [ ms ]	Duty Cycle [ % ]	Correction Factor [ dB ]
Bluetooth LE	0.39	0.236	62.30	2.06

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) \* 100

Correction Factor : 10 \* Log(1 / (Duty Cycle / 100))

- Test Plot



**5.4 Configuration of Test System**

**Line Conducted Test:** The EUT was tested in the Transmitting mode. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions.

**Radiated Emission Test:** Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

**5.5 Antenna Requirement**

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

**Antenna Construction:**

The antenna of the EUT is a Dielectric Chip Antenna on the main board in the EUT, so no consideration of replacement by the user.

**6. PRELIMINARY TEST**

**6.1 AC Power line Conducted Emissions Tests**

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

**6.2 General Radiated Emissions Tests**

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

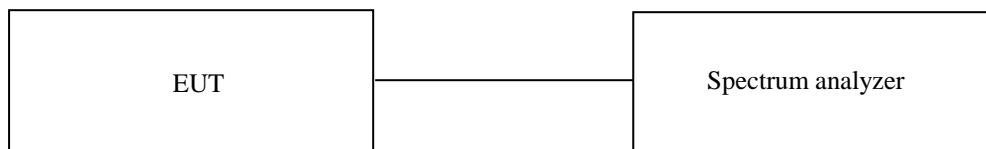
## 7. MINIMUM 6 dB BANDWIDTH

### 7.1 Operating environment

Temperature : 21 °C  
 Relative humidity : 48 % R.H.

### 7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



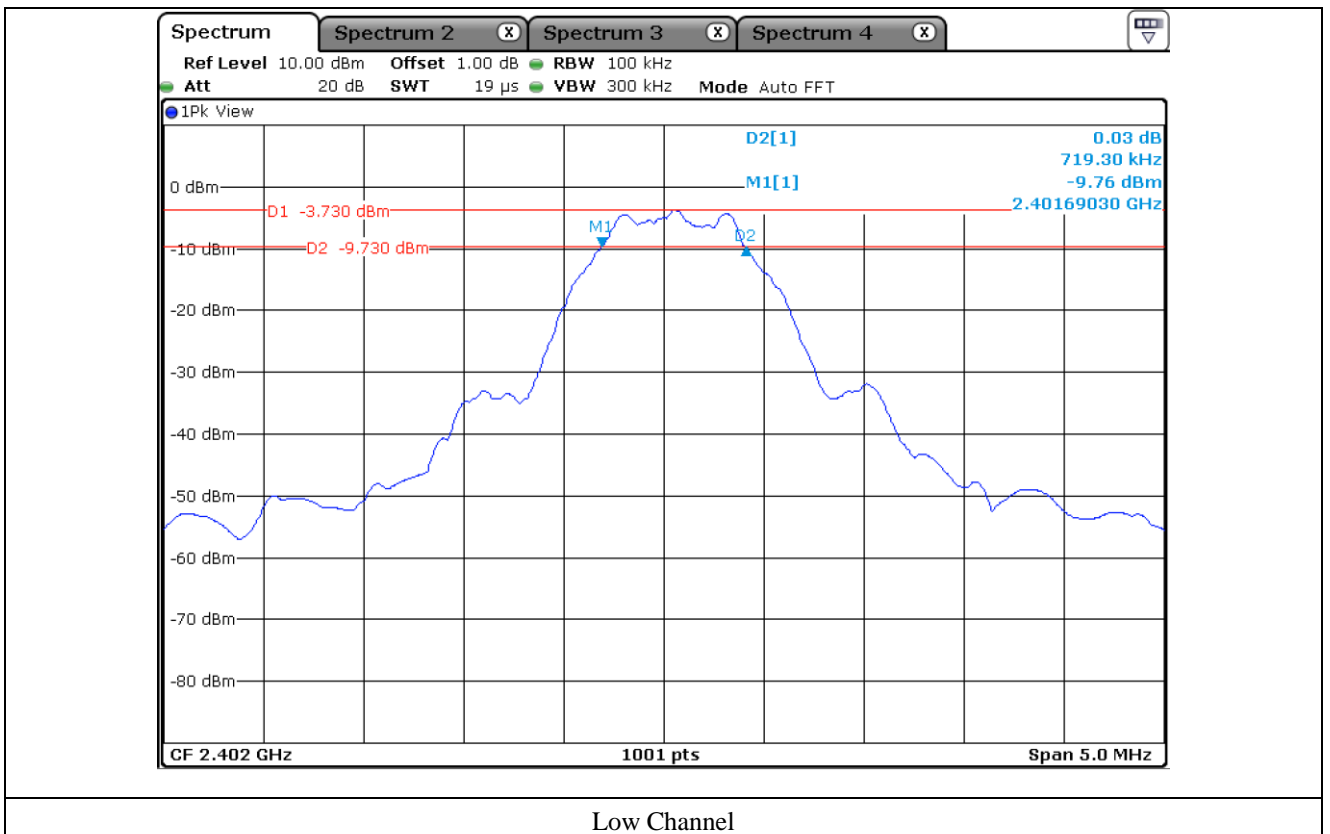
### 7.3 Test Date

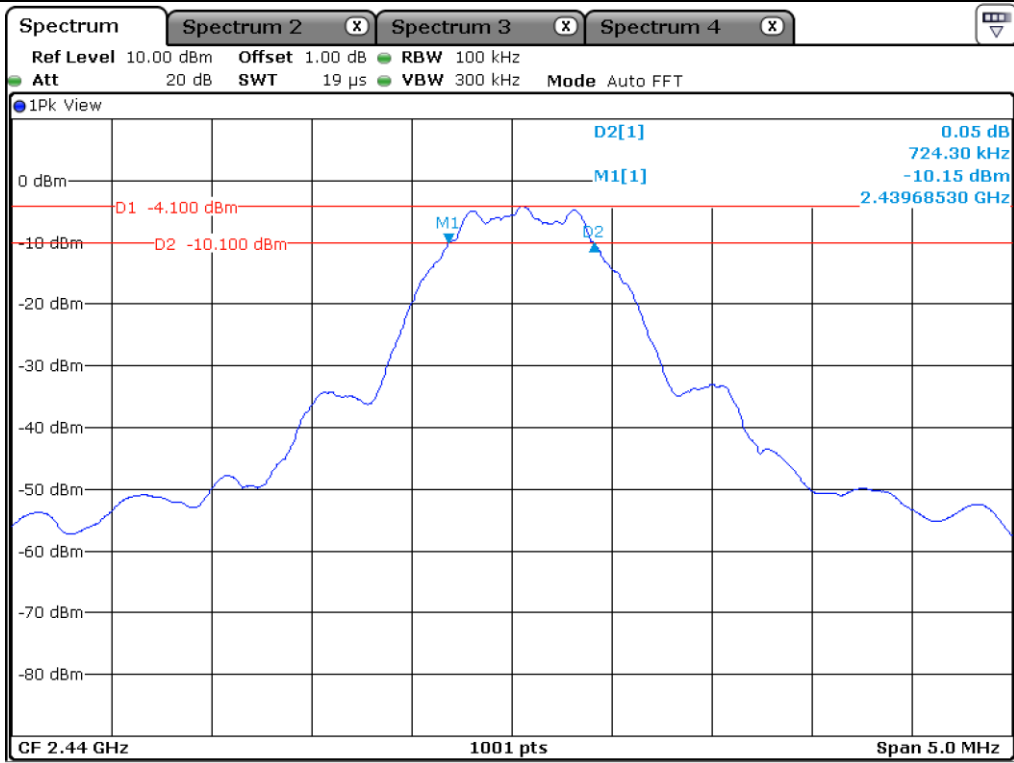
February 01, 2021 ~ February 03, 2021

**7.4 Test data**

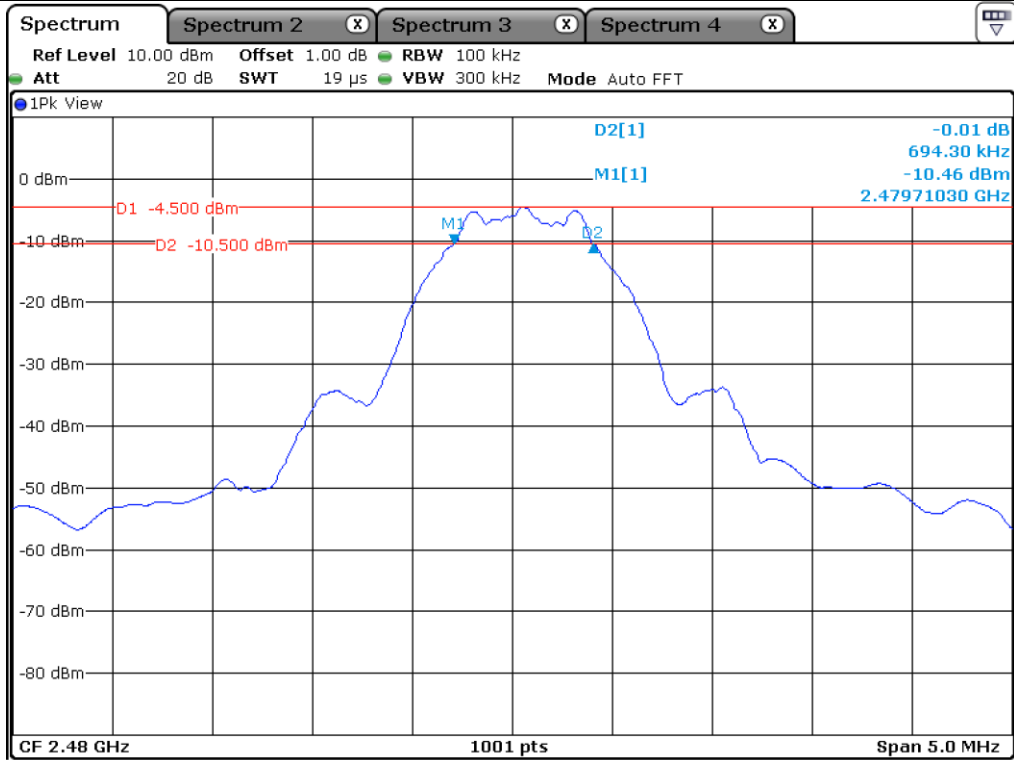
Channel	Frequency (MHz)	Measured Value (MHz)	Limit (MHz)	Margin (MHz)
Low	2 402.00	0.72	0.50	0.22
Middle	2 440.00	0.72	0.50	0.22
High	2 480.00	0.69	0.50	0.19

Remark. Margin = Measured Value - Limit





Middle Channel



High Channel

## 8. MAXIMUM PEAK OUTPUT POWER

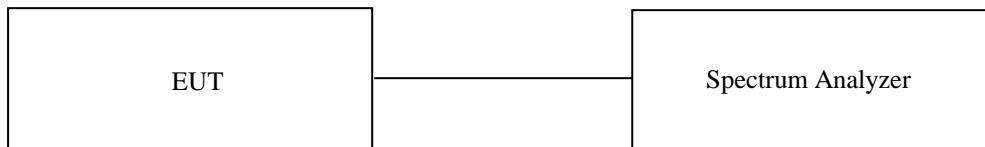
### 8.1 Operating environment

Temperature : 21 °C  
Relative humidity : 48 % R.H.

### 8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to  $\geq$  DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



### 8.3 Test Date

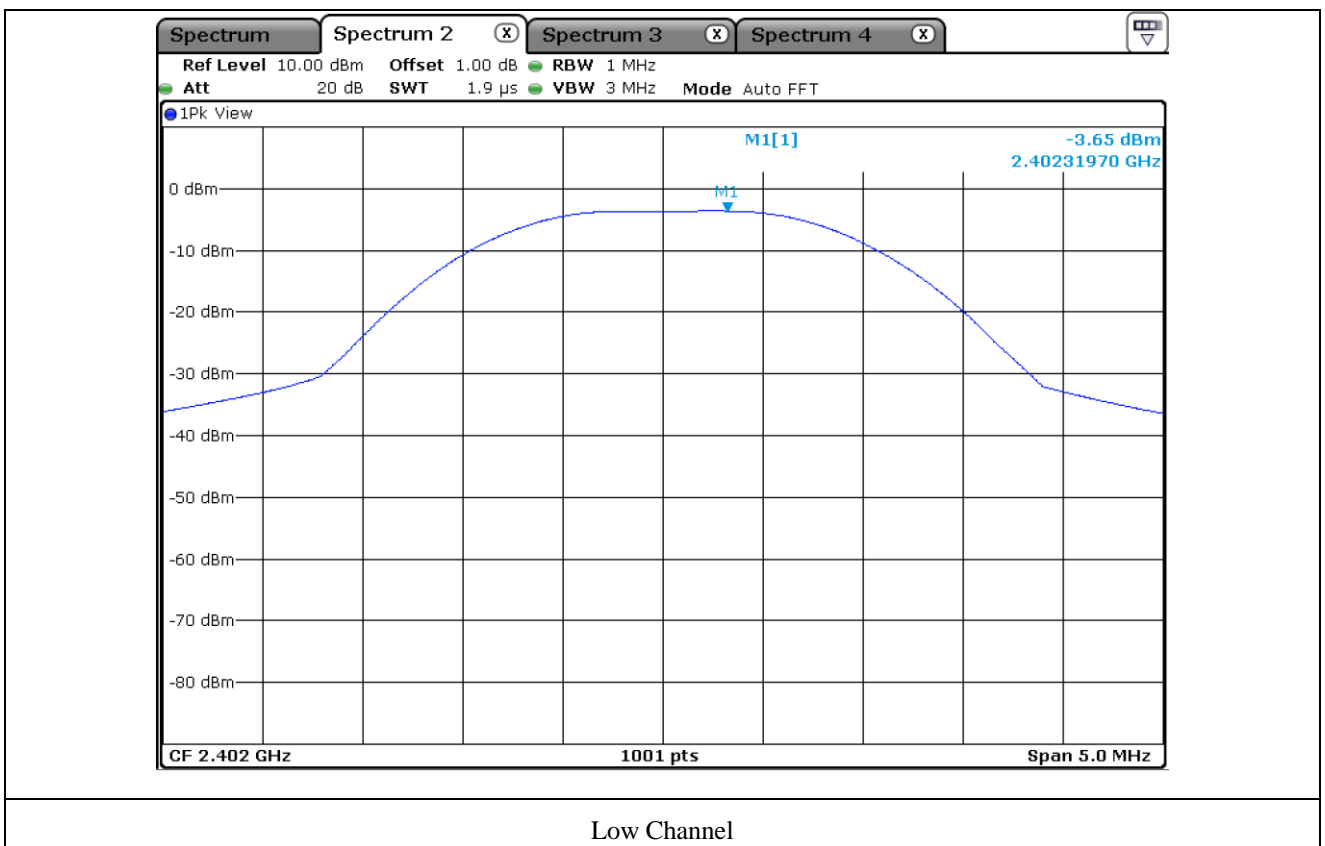
February 01, 2021 ~ February 03, 2021

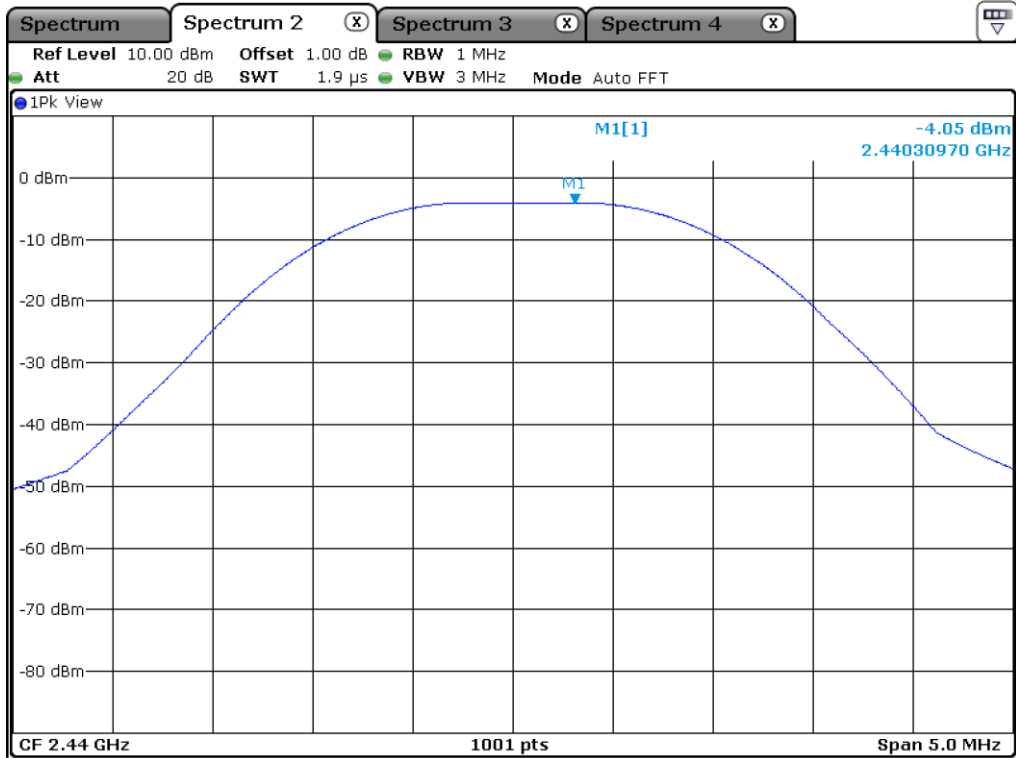
### 8.4 Test data

-. Test Result : Pass

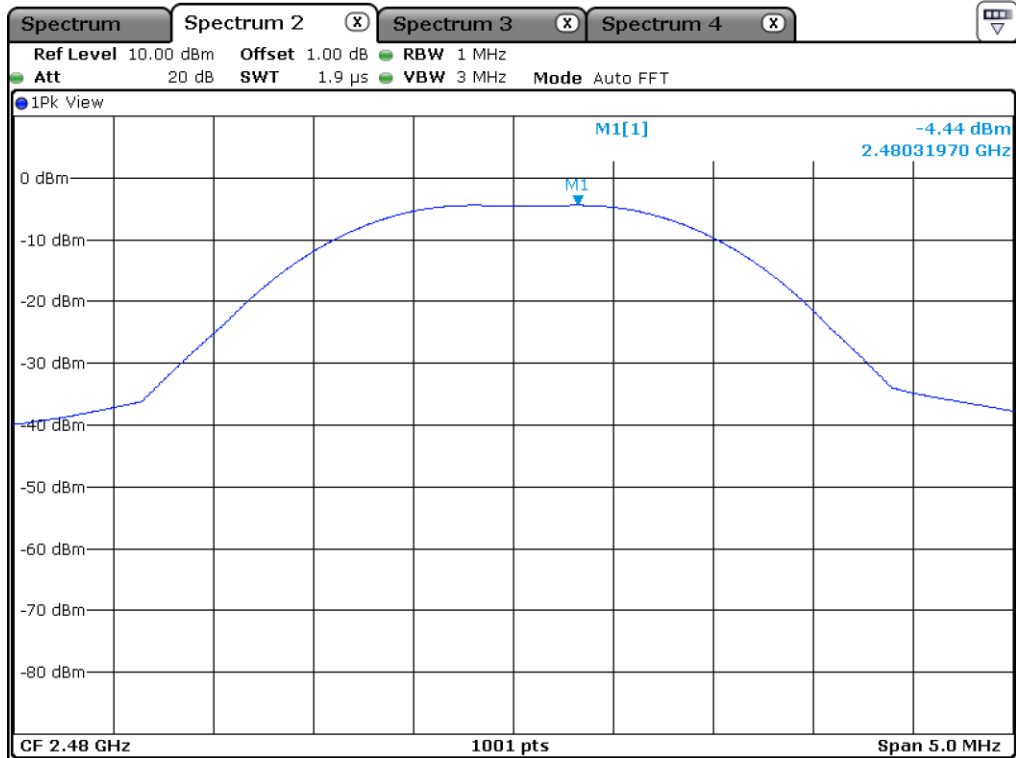
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Measured Value (dBm)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	2 402.00	0.72	-3.65	-3.65	30.00	33.65
Middle	2 440.00	0.72	-4.05	-4.05	30.00	34.05
High	2 480.00	0.69	-4.44	-4.44	30.00	34.44

Remark. Margin = Limit – Result value (=Measured value + Duty Cycle Factor)





Middle Channel



High Channel



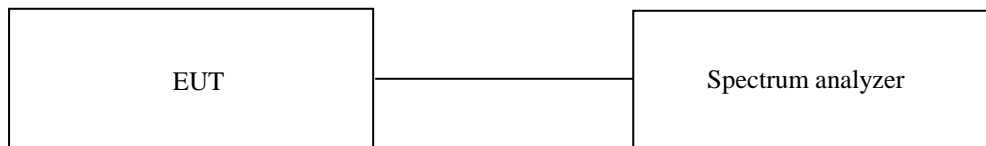
## 9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

### 9.1 Operating environment

Temperature : 21 °C  
Relative humidity : 48 % R.H.

### 9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, the video bandwidth is set to 3 times the resolution bandwidth and peak detection was used.



### 9.3 Test set-up for radiated measurement

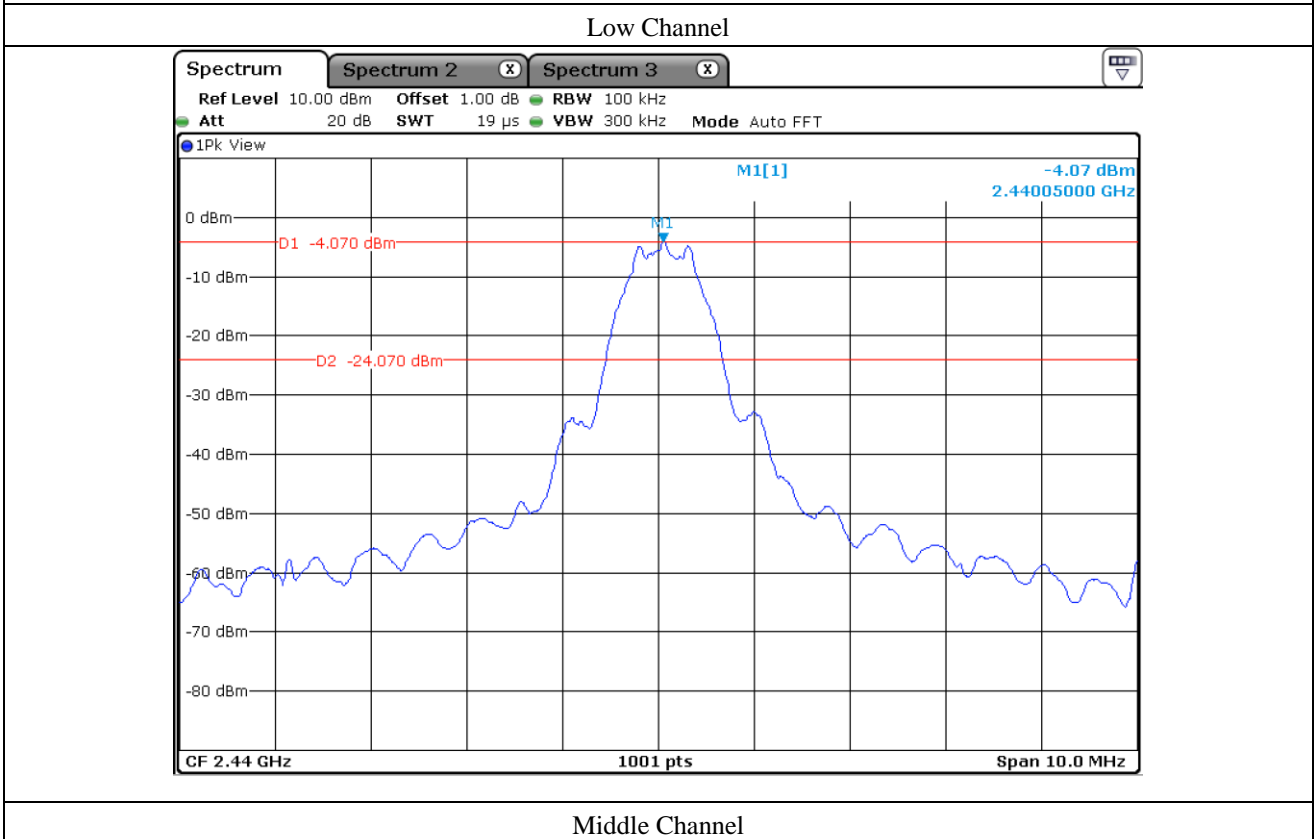
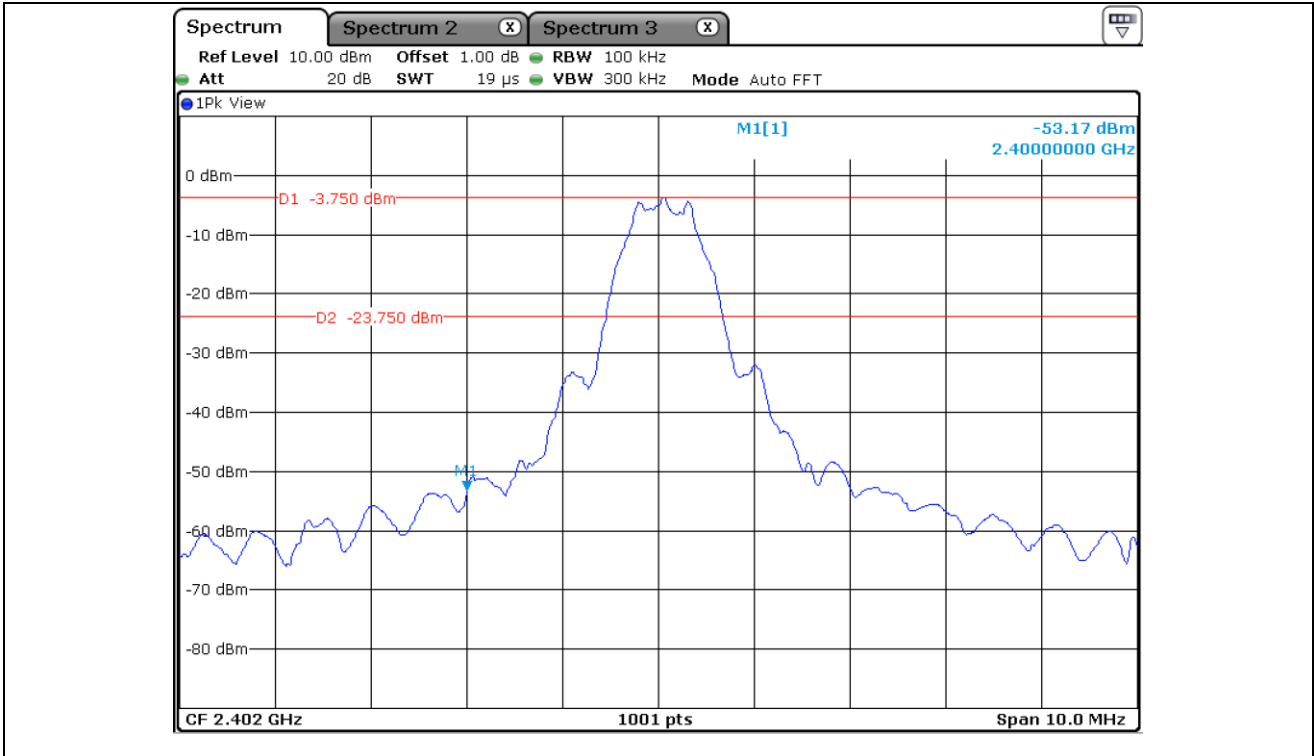
The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

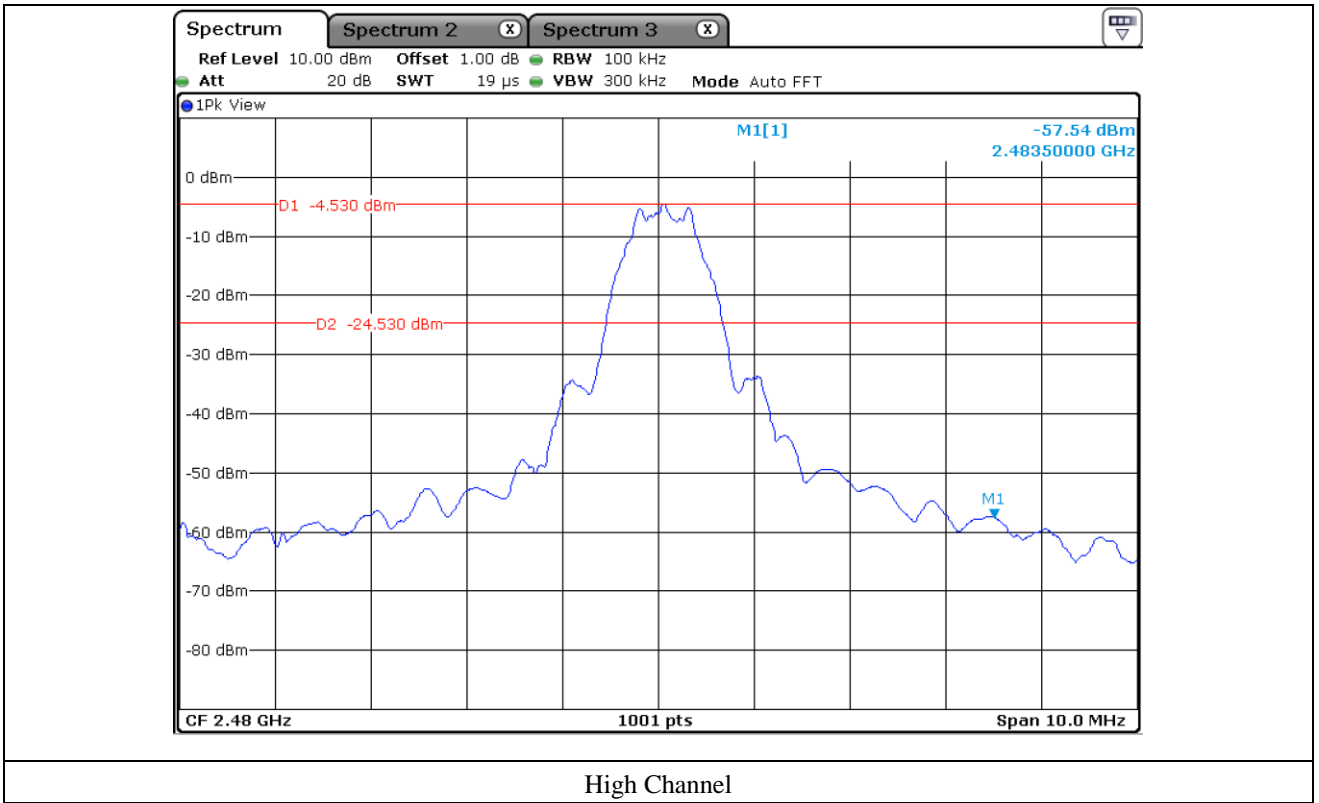
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

### 9.4 Test Date

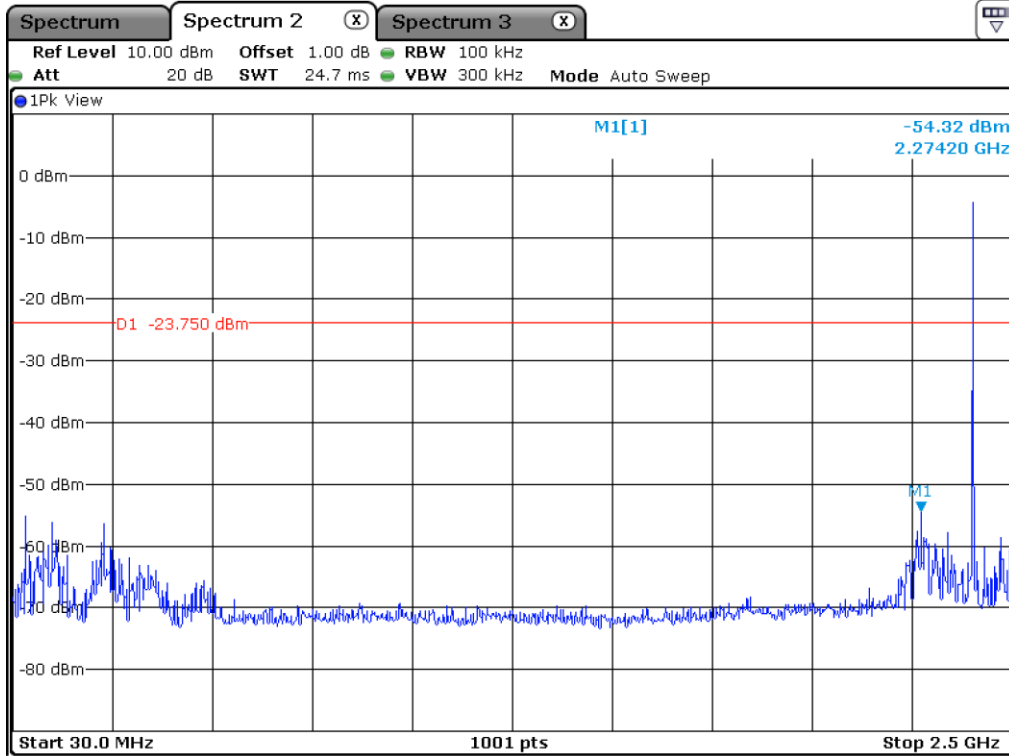
February 01, 2021 ~ February 03, 2021

9.5 Test data for conducted emission

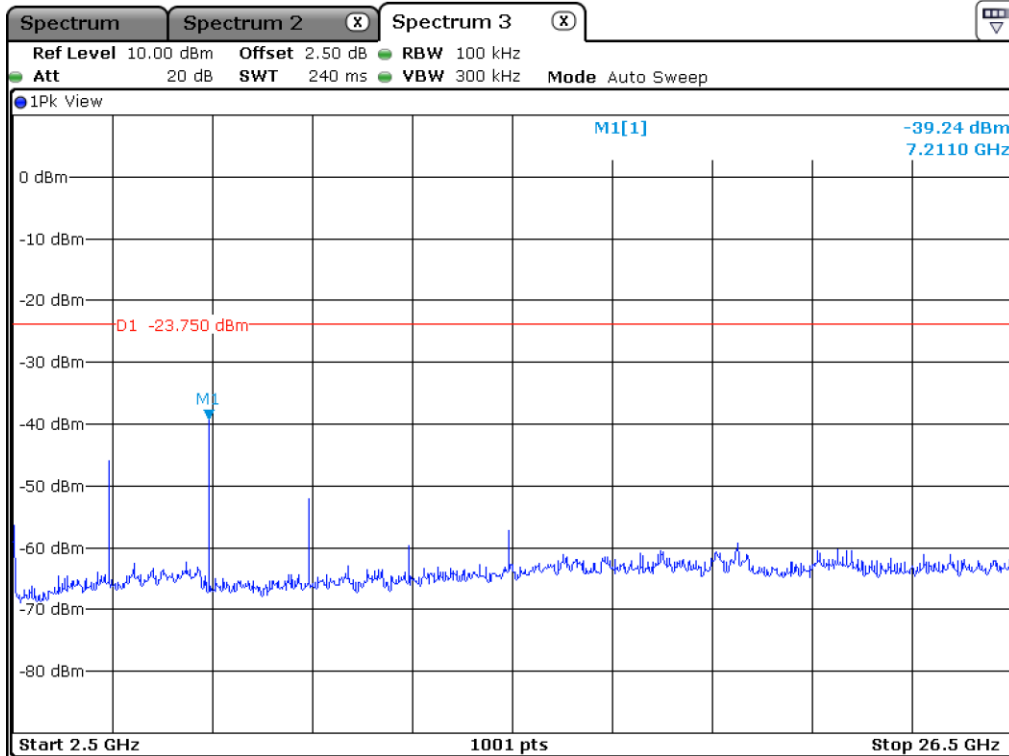




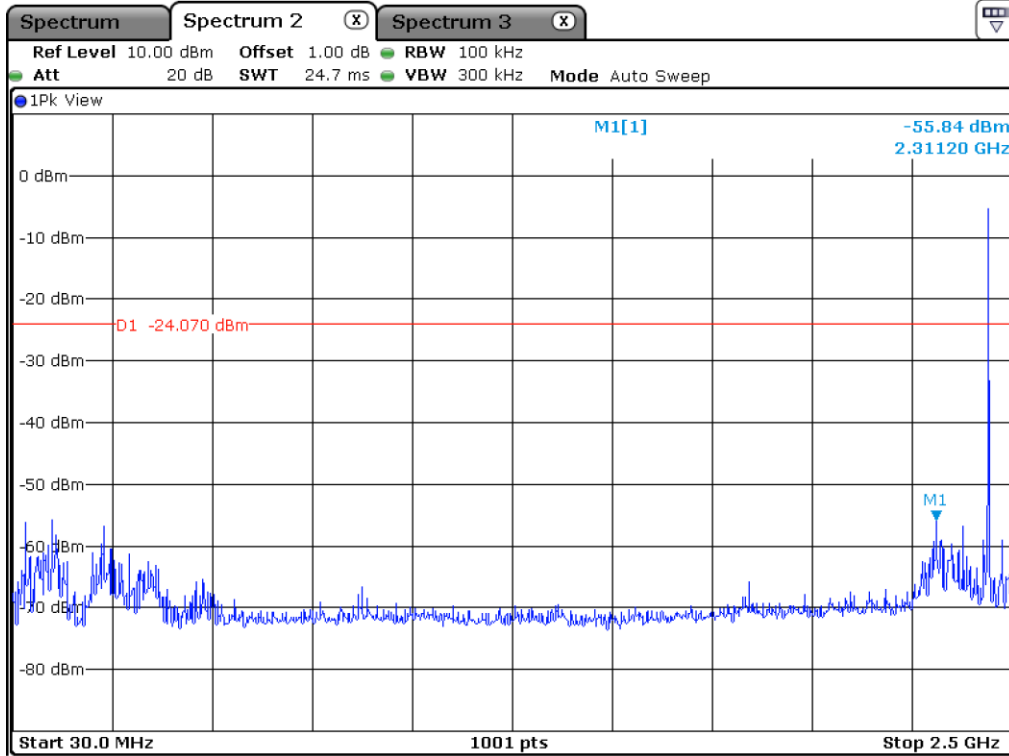
High Channel



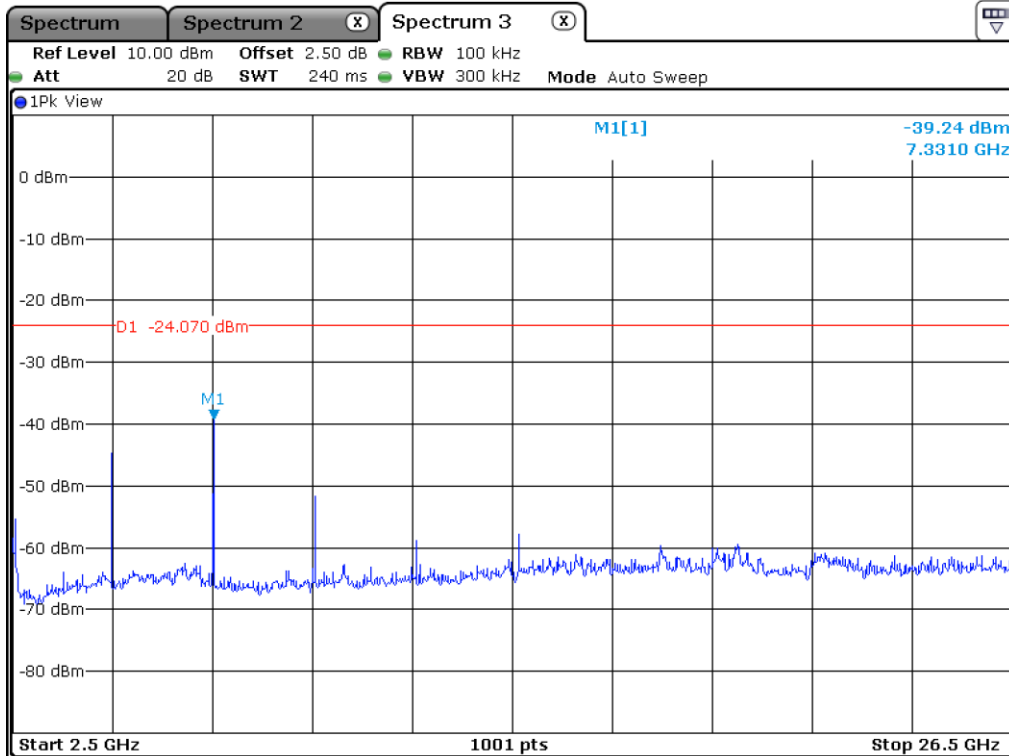
Low Channel



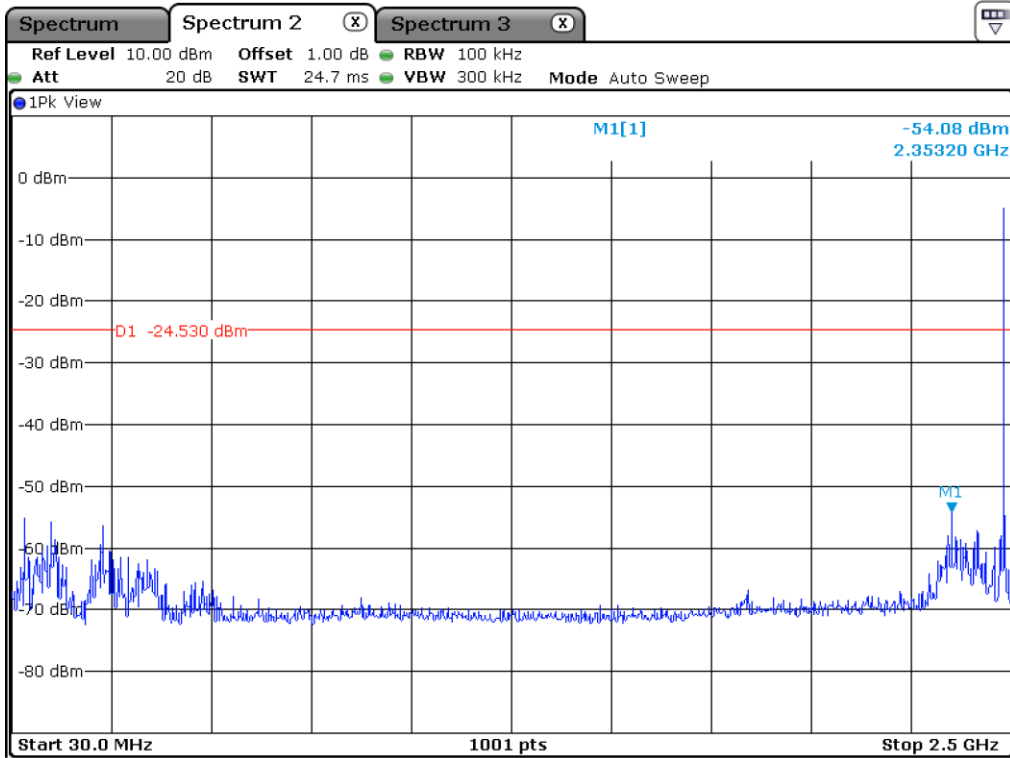
Low Channel



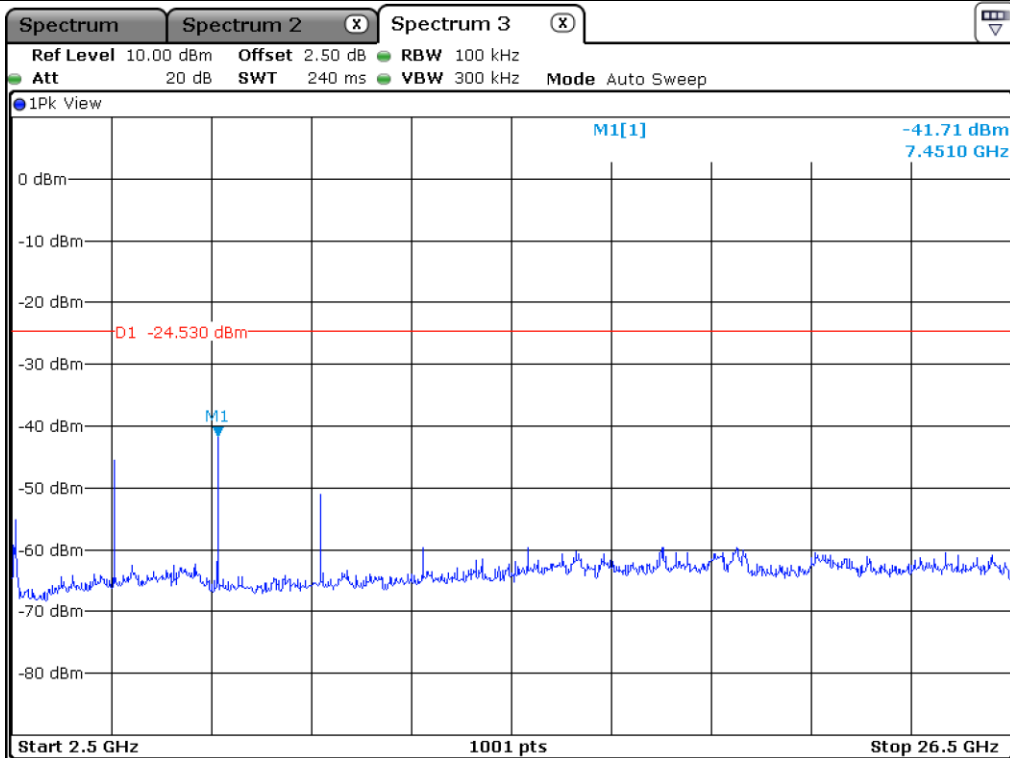
Middle Channel



Middle Channel



High Channel



High Channel

**9.6 Test data for radiated emission**

**9.6.1 Radiated Emission which fall in the Restricted Band**

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode  
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 62.30 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
<b>Test Data for Low Channel</b>										
2 344.96	46.89	Peak	H	27.80	8.10	45.30	0.00	37.49	74.00	36.51
2 338.09	37.49	Average	H	27.80	8.10	45.30	2.06	30.15	54.00	23.85
2 352.07	45.90	Peak	V	27.80	8.10	45.30	0.00	36.50	74.00	37.50
2 330.97	36.07	Average	V	27.80	8.10	45.30	2.06	28.73	54.00	25.27
<b>Test Data for High Channel</b>										
2 483.50	51.03	Peak	H	28.80	8.20	45.30	0.00	42.73	74.00	31.27
2 483.50	37.79	Average	H	28.80	8.20	45.30	2.06	31.55	54.00	22.45
2 489.85	46.83	Peak	V	28.80	8.20	45.30	0.00	38.53	74.00	35.47
2 492.04	35.84	Average	V	28.80	8.20	45.30	2.06	29.60	54.00	24.40

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Gain}$$

### 9.6.2 Spurious & Harmonic Radiated Emission

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,  
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 62.30 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
<b>Test Data for Low Channel</b>										
4 804.00	57.09	Peak	H	33.30	10.50	46.30	0.00	54.59	74.00	19.41
4 804.00	50.62	Average	H	33.30	10.50	46.30	2.06	50.18	54.00	3.82
4 804.00	50.73	Peak	V	33.30	10.50	46.30	0.00	48.23	74.00	25.77
4 804.00	43.84	Average	V	33.30	10.50	46.30	2.06	43.40	54.00	10.60
<b>Test Data for Middle Channel</b>										
4 880.00	56.49	Peak	H	33.30	10.50	46.30	0.00	53.99	74.00	20.01
4 880.00	51.56	Average	H	33.30	10.50	46.30	2.06	51.12	54.00	2.88
4 880.00	51.43	Peak	V	33.30	10.50	46.30	0.00	48.93	74.00	25.07
4 880.00	44.59	Average	V	33.30	10.50	46.30	2.06	44.15	54.00	9.85
<b>Test Data for High Channel</b>										
4 960.00	56.39	Peak	H	33.30	10.60	46.30	0.00	53.99	74.00	20.01
4 960.00	50.50	Average	H	33.30	10.60	46.30	2.06	50.16	54.00	3.84
4 960.00	51.01	Peak	V	33.30	10.60	46.30	0.00	48.61	74.00	25.39
4 960.00	44.44	Average	V	33.30	10.60	46.30	2.06	44.10	54.00	9.90

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Gain}$$



## 10. PEAK POWER SPECTRAL DENSITY

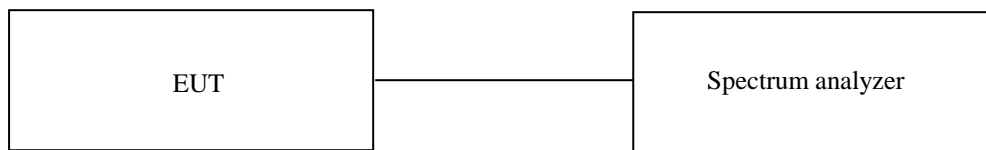
### 10.1 Operating environment

Temperature : 21 °C  
Relative humidity : 48 % R.H.

### 10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ , the video bandwidth is set to 3 times the resolution bandwidth.



### 10.3 Test Date

February 01, 2021 ~ February 03, 2021

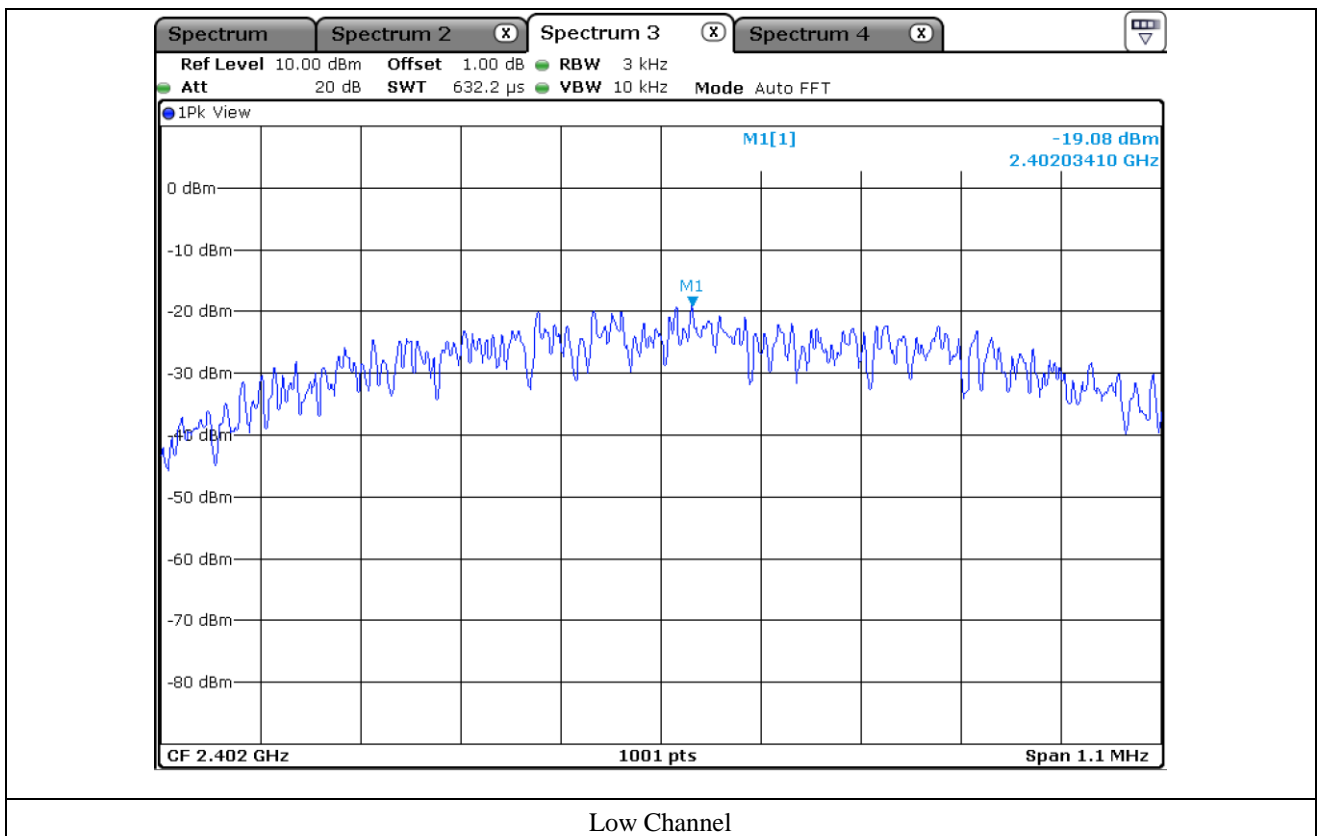
### 10.4 Test data

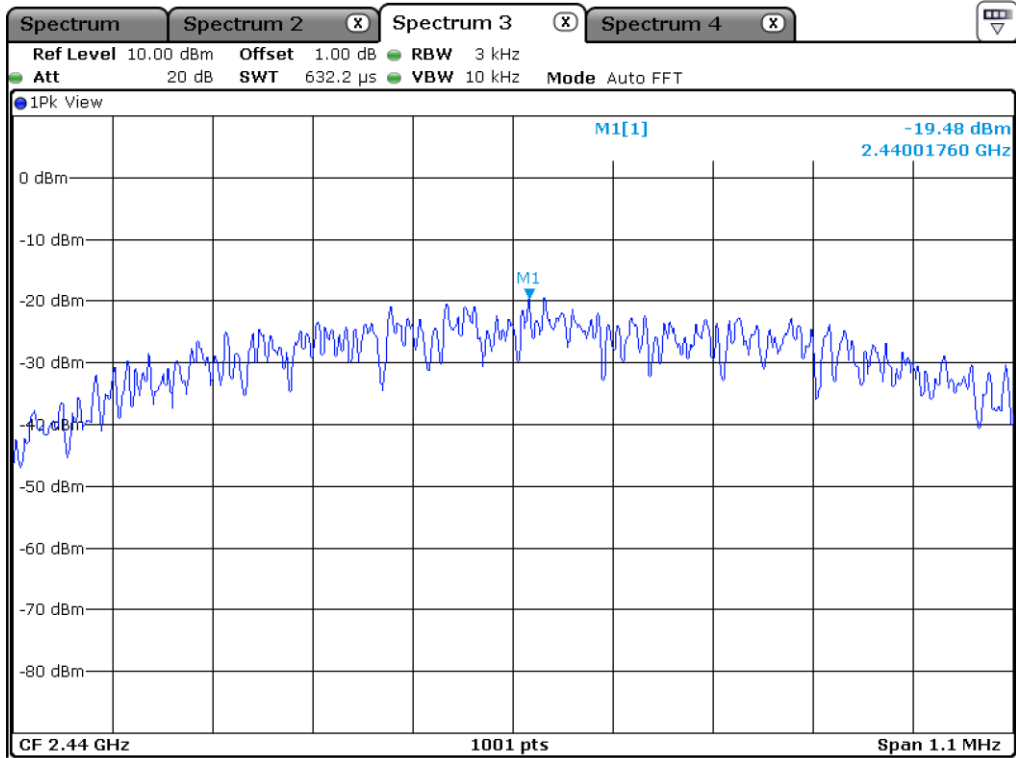
- Test Result : Pass

- Operating Condition : Continuous transmitting mode

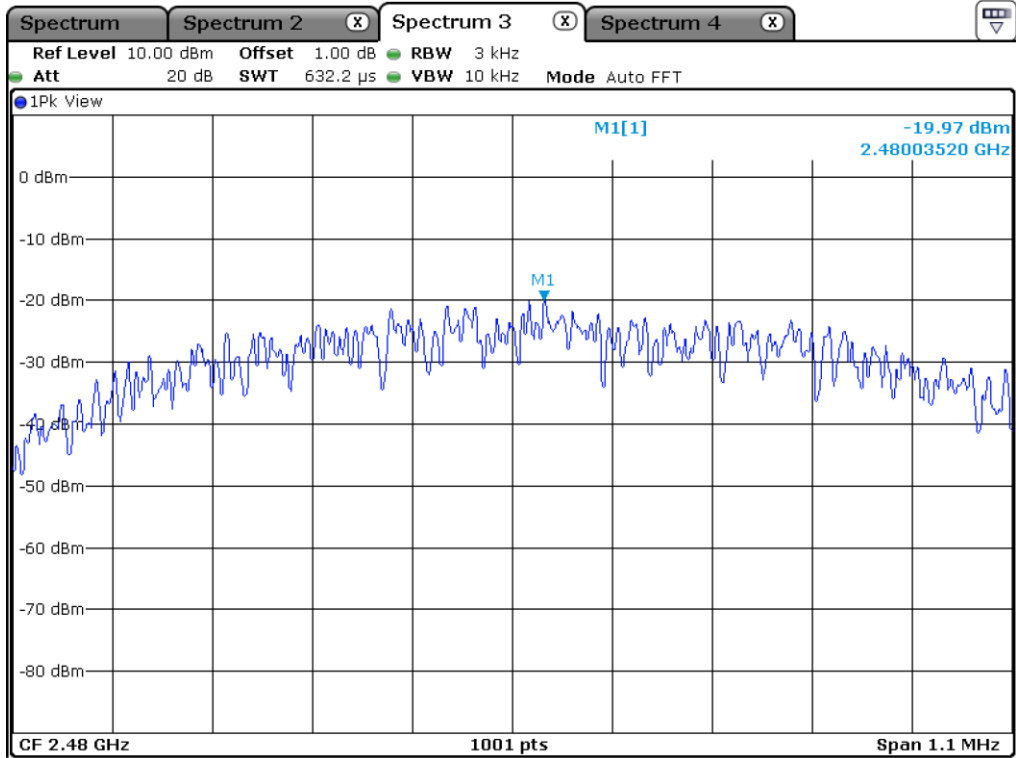
Channel	Frequency (MHz)	Measured Value (dBm)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	2 402.00	-19.08	-19.08	8.00	27.08
Middle	2 440.00	-19.48	-19.48	8.00	27.48
High	2 480.00	-19.97	-19.97	8.00	27.97

Remark. Margin = Limit – Result(=Measured value + Duty Cycle Factor)





Middle Channel



High Channel

## 11. RADIATED EMISSION TEST

### 11.1 Operating environment

Temperature : 21 °C  
Relative humidity : 48 % R.H.

### 11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

### 11.3 Test Date

February 01, 2021 ~ February 03, 2021

**11.4 Test data for 30 MHz ~ 1000 MHz**

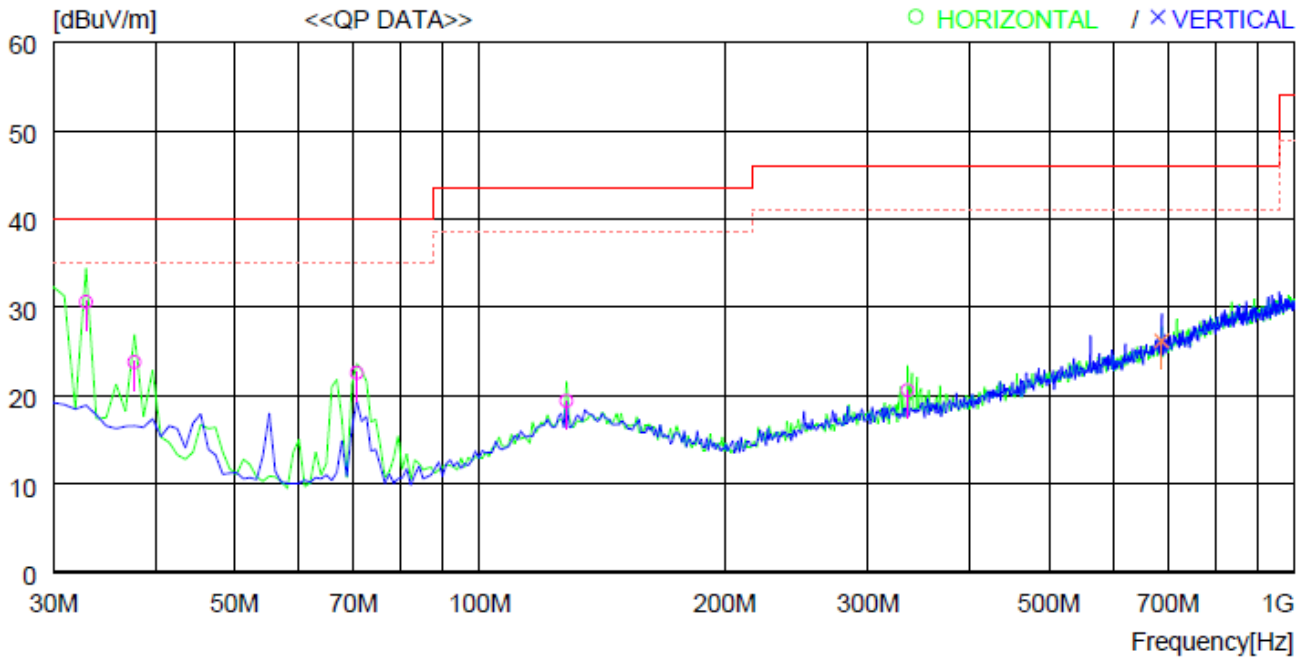
Humidity Level : 48 % R.H. Temperature: 21 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Automated electronic sphygmomanometer

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	32.910	41.9	19.9	0.8	32.0	30.6	40.0	9.4	300	359
2	37.760	36.8	18.1	0.9	32.0	23.8	40.0	16.2	200	0
3	70.740	40.8	12.9	1.0	32.1	22.6	40.0	17.4	400	0
4	127.970	31.0	19.0	1.4	32.0	19.4	43.5	24.1	400	67
5	335.550	30.7	19.7	2.2	32.0	20.6	46.0	25.4	100	359
----- Vertical -----										
6	687.655	29.7	25.4	3.4	32.3	26.2	46.0	19.8	200	359

**11.5 Test data for Below 30 MHz**

- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

**11.6 Test data for above 1 GHz**

- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

## 12. CONDUCTED EMISSION TEST

### 12.1 Operating environment

Temperature : 21 °C  
Relative humidity : 48 % R.H.

### 12.2 Test set-up

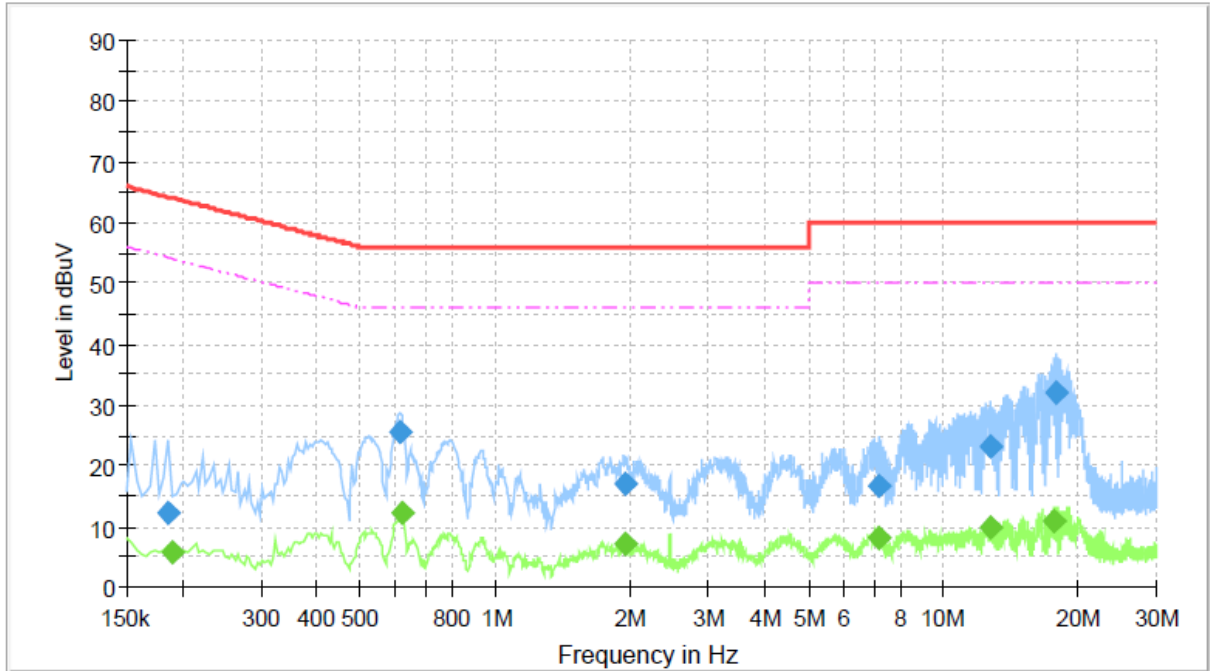
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50  $\Omega$  / 50  $\mu$ H + 5  $\Omega$  Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

### 12.3 Test Date

February 01, 2021 ~ February 03, 2021

### 12.4 Test data

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE

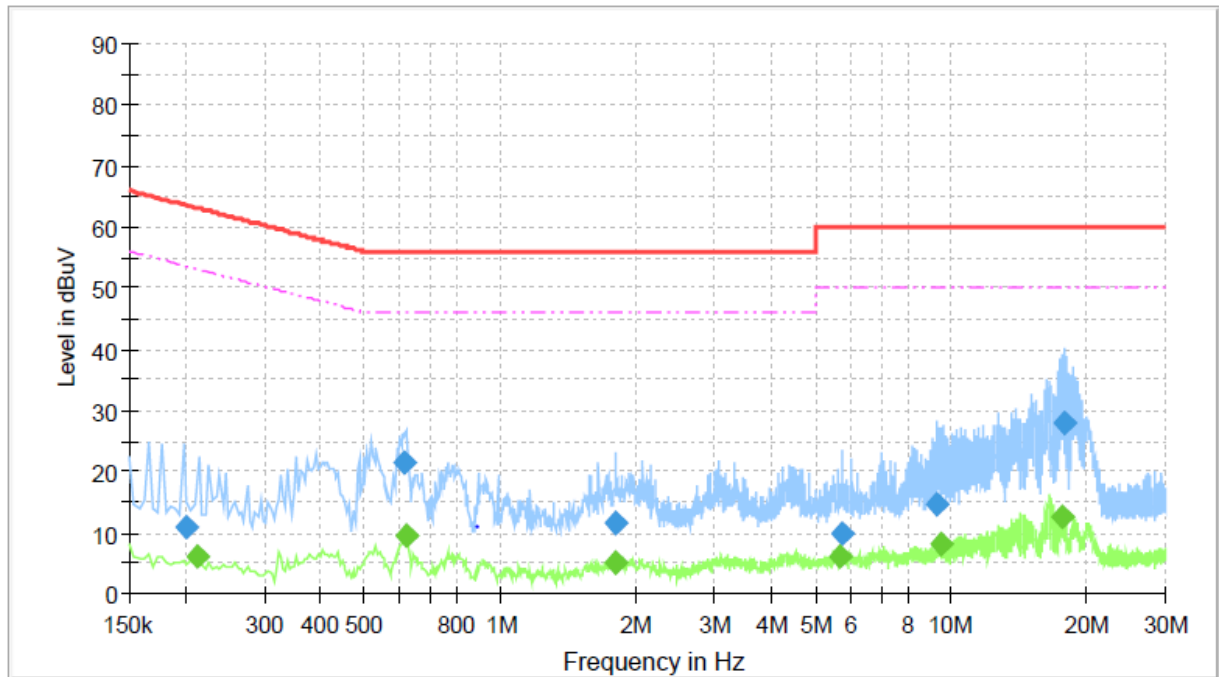


### Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.185	12.22	---	64.24	52.01	3000.0	9.0	L1	9.92
0.191	---	5.91	54.02	48.11	3000.0	9.0	L1	9.92
0.612	25.58	---	56.00	30.42	3000.0	9.0	L1	9.94
0.616	---	12.42	46.00	33.58	3000.0	9.0	L1	9.94
1.947	17.01	---	56.00	38.99	3000.0	9.0	L1	10.01
1.950	---	7.31	46.00	38.69	3000.0	9.0	L1	10.01
7.158	---	8.11	50.00	41.89	3000.0	9.0	L1	10.18
7.186	16.75	---	60.00	43.25	3000.0	9.0	L1	10.18
12.742	23.27	---	60.00	36.73	3000.0	9.0	L1	10.40
12.770	---	9.72	50.00	40.28	3000.0	9.0	L1	10.40
17.731	---	10.97	50.00	39.03	3000.0	9.0	L1	10.54
17.915	31.90	---	60.00	28.10	3000.0	9.0	L1	10.55



-. Tested Line : NEUTRAL LINE



### Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.202	10.99	---	63.55	52.56	3000.0	9.0	N	9.93
0.213	---	6.27	53.07	46.80	3000.0	9.0	N	9.93
0.612	21.63	---	56.00	34.37	3000.0	9.0	N	9.95
0.616	---	9.49	46.00	36.51	3000.0	9.0	N	9.95
1.800	11.47	---	56.00	44.53	3000.0	9.0	N	10.03
1.800	---	5.02	46.00	40.98	3000.0	9.0	N	10.03
5.685	---	6.07	50.00	43.93	3000.0	9.0	N	10.14
5.729	10.03	---	60.00	49.97	3000.0	9.0	N	10.14
9.293	14.51	---	60.00	45.49	3000.0	9.0	N	10.35
9.570	---	8.14	50.00	41.86	3000.0	9.0	N	10.37
17.597	---	12.52	50.00	37.48	3000.0	9.0	N	10.66
17.904	27.94	---	60.00	32.06	3000.0	9.0	N	10.67

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

**13. LIST OF TEST EQUIPMENT**

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	101457	Apr. 20, 2020 (1Y)
ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 27, 2020 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 16, 2020 (1Y)
BBV 9718 B	Schwarzbeck	Broadband Preamplifier	00009	Mar. 16, 2020 (1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Feb. 20, 2020 (1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	102266	Jul. 15, 2020 (1Y)
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Feb. 27, 2020 (1Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2020 (1Y)
VULB9163	Schwarzbeck	TRILOG Broadband Antenna	777	Apr. 08, 2020 (2Y)
BBHA 9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jul. 23, 2020 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 07, 2021(1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020(2Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Feb. 08, 2021 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	102602	Mar. 17, 2020 (1Y)
ESH3Z2	Rohde & Schwarz	PULSE LIMITER	357.8810.52	Mar. 16, 2020 (1Y)
NSLK8126	Schwarzbeck	LISN	8126404	Mar. 16, 2020 (1Y)
3825/2	EMCO	AMN	9109-1869	Mar. 16, 2020 (1Y)