RADIO PERFORMANCE TEST REPORT

Test Report No.	**: OT-21O-RWD-059**
Reception No.	**: 2110004416**
Applicant	**: Remote Solution Co., Ltd.**
Address	**: 92, Chogokri Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea**
Manufacturer	**: Remote Solution Co., Ltd.**
Address	**: 92, Chogokri Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea**
Type of Equipment	**: BLE/RF4CE Remote controller**
FCC ID.	**: TX4RD68A**
Model Name	**: RD68A00**
Multiple Model Name	**: RD68XYY (X : A~Z, YY : 00~99)**
Serial number	**: N/A**
Total page of Report	**: 32 pages (including this page)**
Date of Incoming	**: October 07, 2021**
Date of issue	**: October 28, 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.

유수민

Tested by	Reviewed by	Approved by
/ Su-Min You / Assistant Manager	/ Tae-Ho, Kim / Senior Manager	/ Ki-Hong, Nam / General Manager
ONETECH Corp.	ONETECH Corp.	ONETECH Corp.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-21O-RWD-059	October 28, 2021	Initial Release	All

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1. VERIFICATION OF COMPLIANCE

Applicant : Remote Solution Co., Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea

Contact Person : Byung-Cheol Kim / Manager

Telephone No. : +82-54-420-4517

FCC ID : TX4RD68A

Model Name : RD68A00

Brand Name : RS OTS / RCU / Remotesolution

Serial Number : N/A

Date : October 28, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	BLE/RF4CE Remote controller
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
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	N/A(See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note.: This test item is not required as EUT is operated by the DC battery.

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: 2020. 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 Remote Solution Co., Ltd., Model RD68A00 (referred to as the EUT in this report) is a BLE/RF4CE Remote controller. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	BLE/RF4CE Remote controller	
Operating Frequency	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	Zigbee	2 405 MHz ~ 2 475 MHz
RF Output Power	Bluetooth LE	5.58 dBm
	Zigbee	5.68 dBm
Number of Channel	Bluetooth LE	40 Channels
	Zigbee	15 Channels
Modulation Type	Bluetooth LE	GFSK
	Zigbee	DSSS
Antenna Type	PCB Antenna	
Antenna Gain	-1.0 dBi	
Rated Supply Voltage	DC 3.0 V	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz	

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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
RD68A00	Basic Model	☑
RD68XYY (See Note 3)	This model is identical to the basic model except that the printed information (Label, Front cover and Brand) on the appearance is different.	☐

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

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

3. Multiple model name RD68XYY is made up of a combination of X (A~Z) and Y (00~99),

X depends on electric parts, YY depends on appearance, design and brand

4. EUT MODIFICATIONS

-. None

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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	Remote Solution 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
RD68A00	Remote Solution Co., Ltd.	BLE/RF4CE Remote controller (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 2 405 MHz, 2 440 MHz, and 2 475 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
11	2 405
12	2 410
13	2 415
14	2 420
15	2 425
16	2 430
17	2 435
18	2 440
19	2 445
20	2 450
21	2 455
22	2 460
23	2 465
24	2 470
25	2 475

-. Duty Cycle

Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	FCC Duty Cycle Correction [dB]
4	10 – 4 = 6	40	7.96

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5.4 Configuration of Test System

Line Conducted Test: This test item is not required as EUT is operated by the DC battery.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 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 PCB 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

This test item is not required as EUT is operated by the DC battery.

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

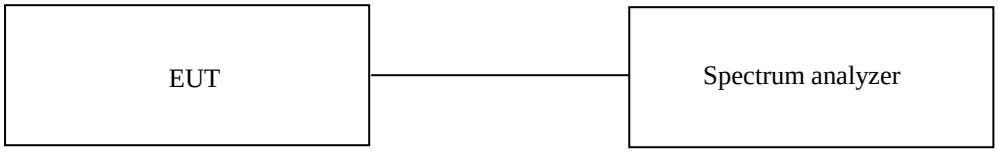
7.1 Operating environment

Temperature : 22 °C

Relative humidity : 46 % 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

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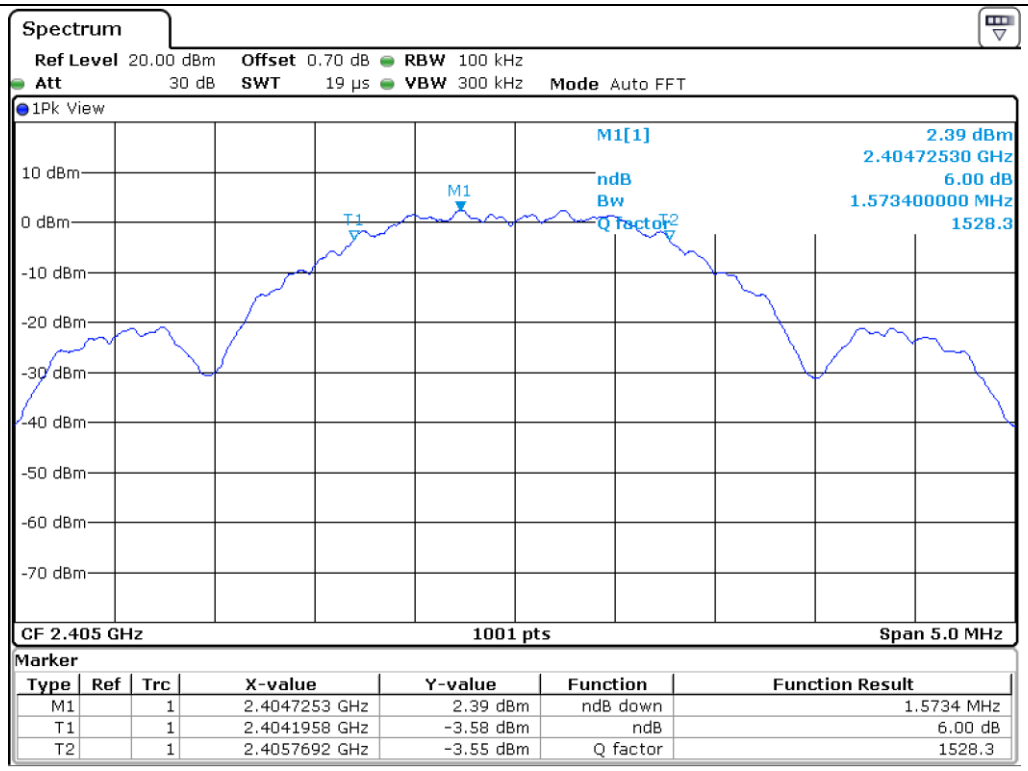
7.4 Test data

Channel	Frequency (MHz)	Measured Value (kHz)	Limit (kHz)	Margin (kHz)
Low	2 405.00	1 573.40	500.00	1 073.40
Middle	2 440.00	1 573.40	500.00	1 073.40
High	2 475.00	1 578.40	500.00	1 078.40

Remark. Margin = Measured Value - Limit



Low Channel

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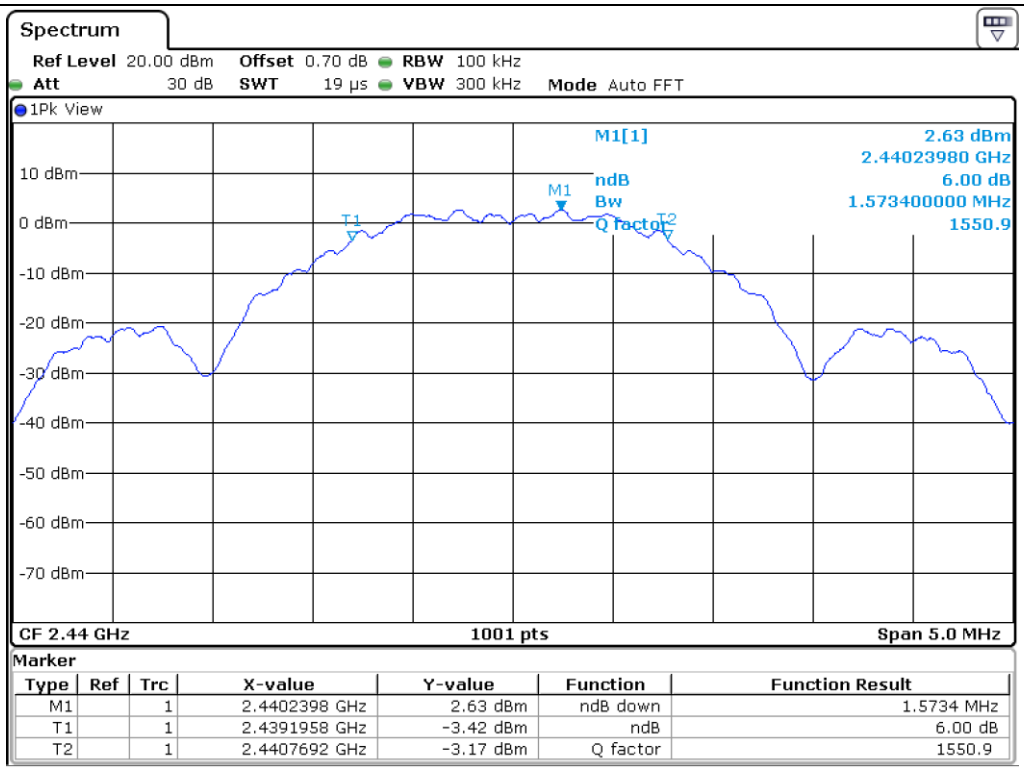
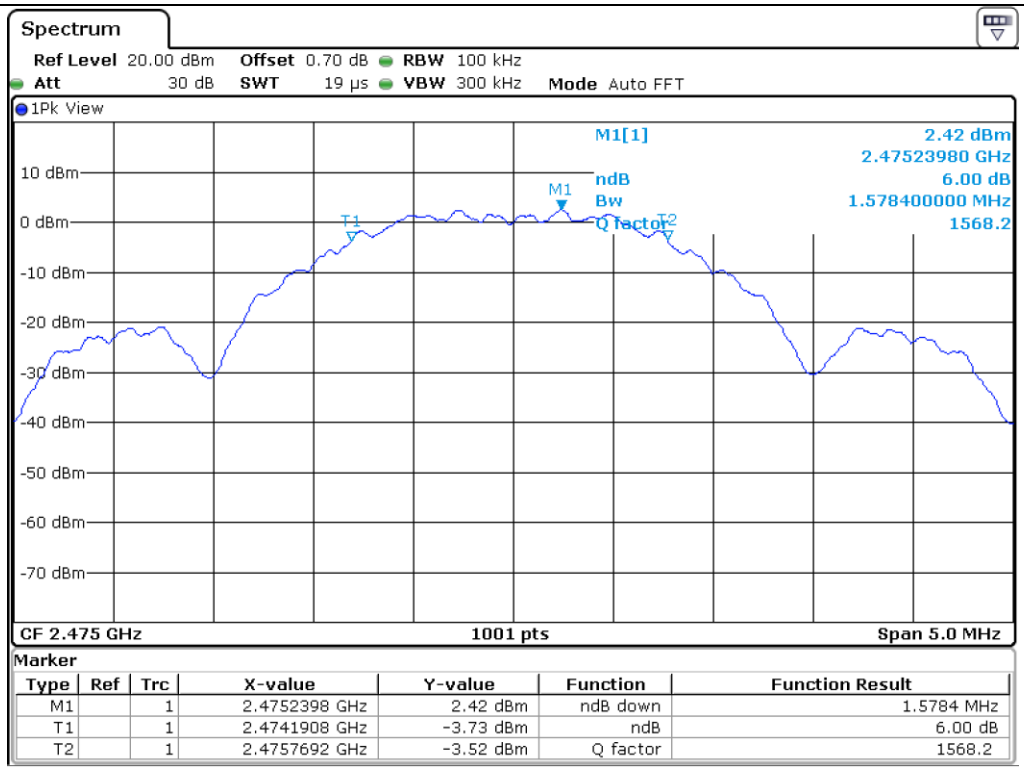


Middle Channel



High Channel

8. MAXIMUM PEAK OUTPUT POWER

8.1 Operating environment

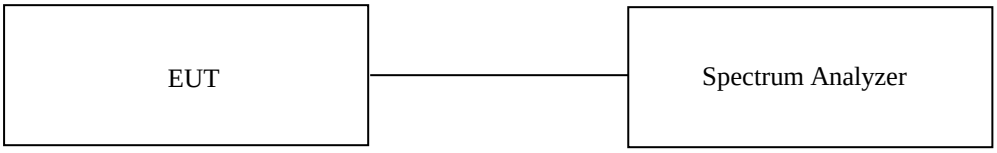
Temperature : 22 °C

Relative humidity : 46 % 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 ≥ DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



8.3 Test Date

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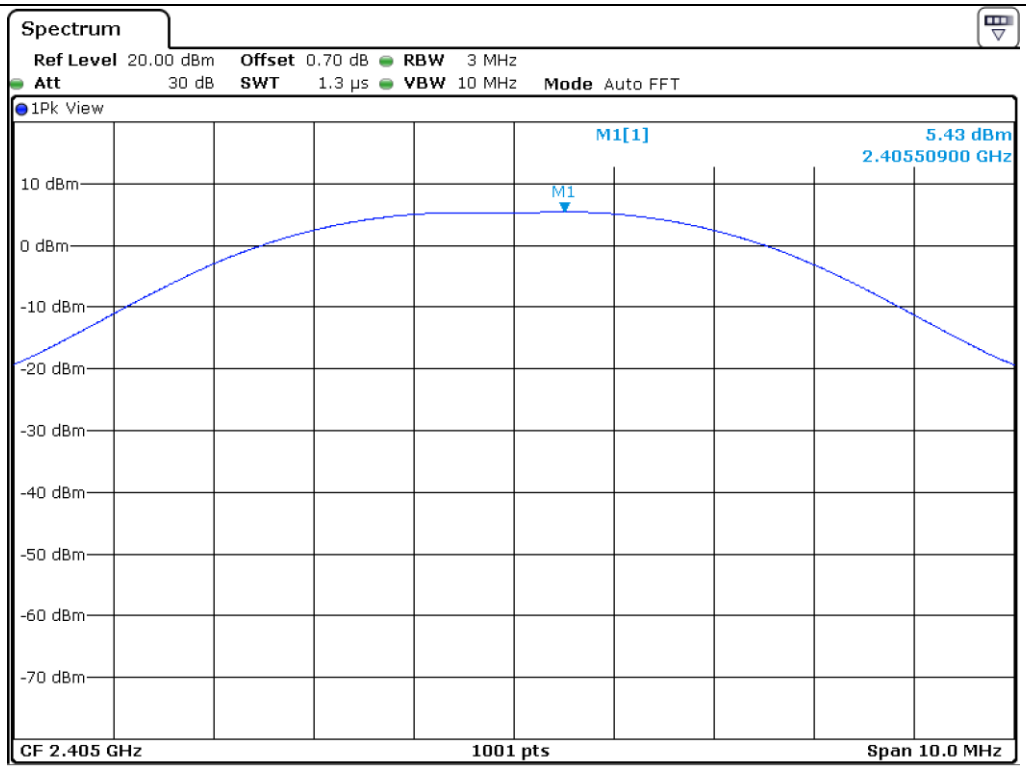
8.4 Test data

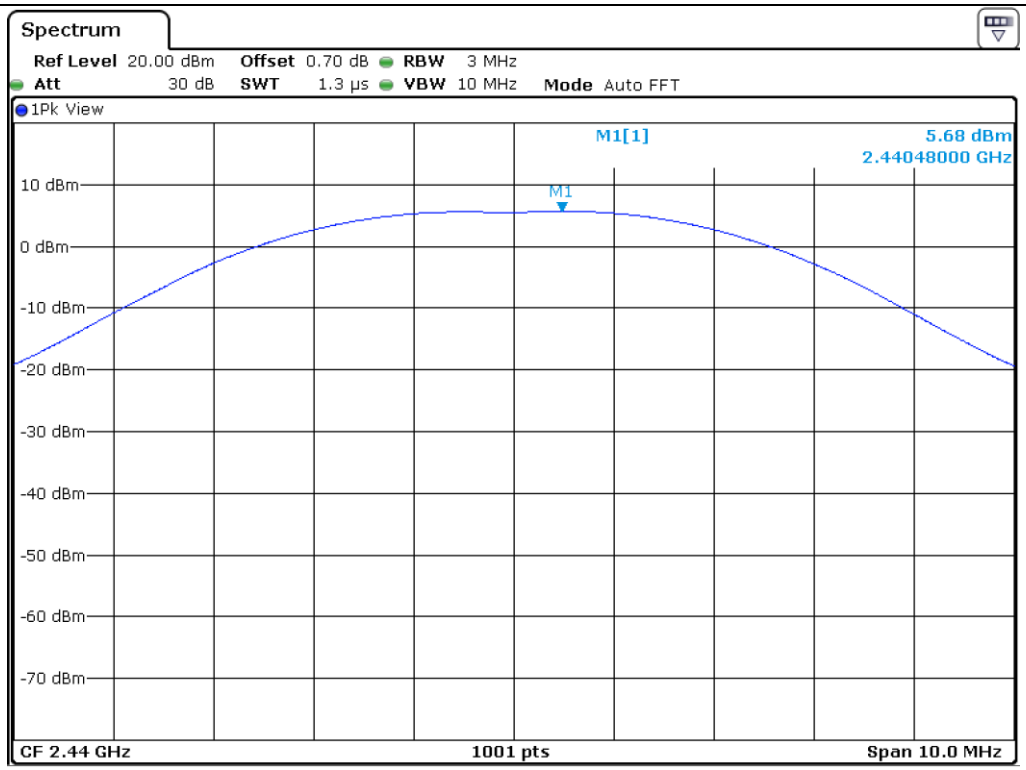
-. Test Result : Pass

Channel	Frequency (MHz)	6 dB Bandwidth (kHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Low	2 405.00	1 573.40	5.43	30.00	24.57
Middle	2 440.00	1 573.40	5.68	30.00	24.32
High	2 475.00	1 578.40	5.43	30.00	24.57

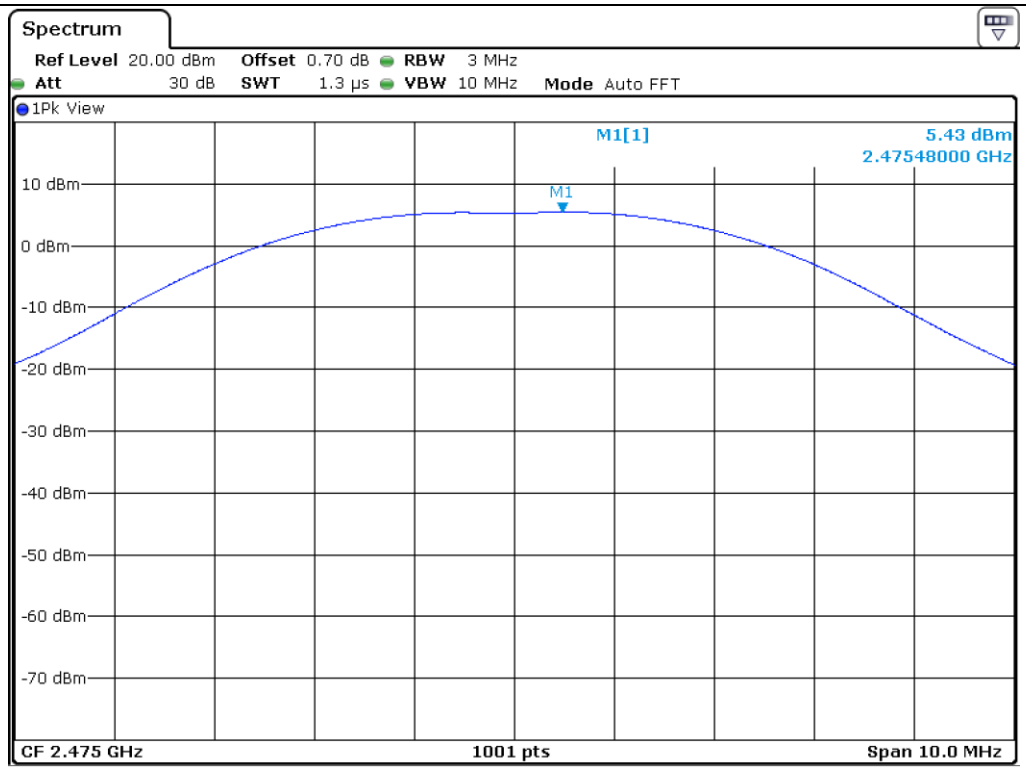
Remark. Margin = Limit – Measured value (=Receiver Reading + Cable Loss)



Low Channel



Middle Channel



High Channel

9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

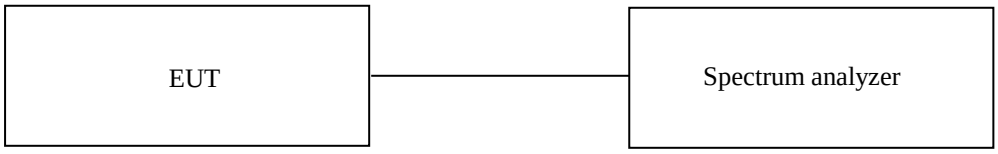
9.1 Operating environment

Temperature : 22 °C

Relative humidity : 46 % 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

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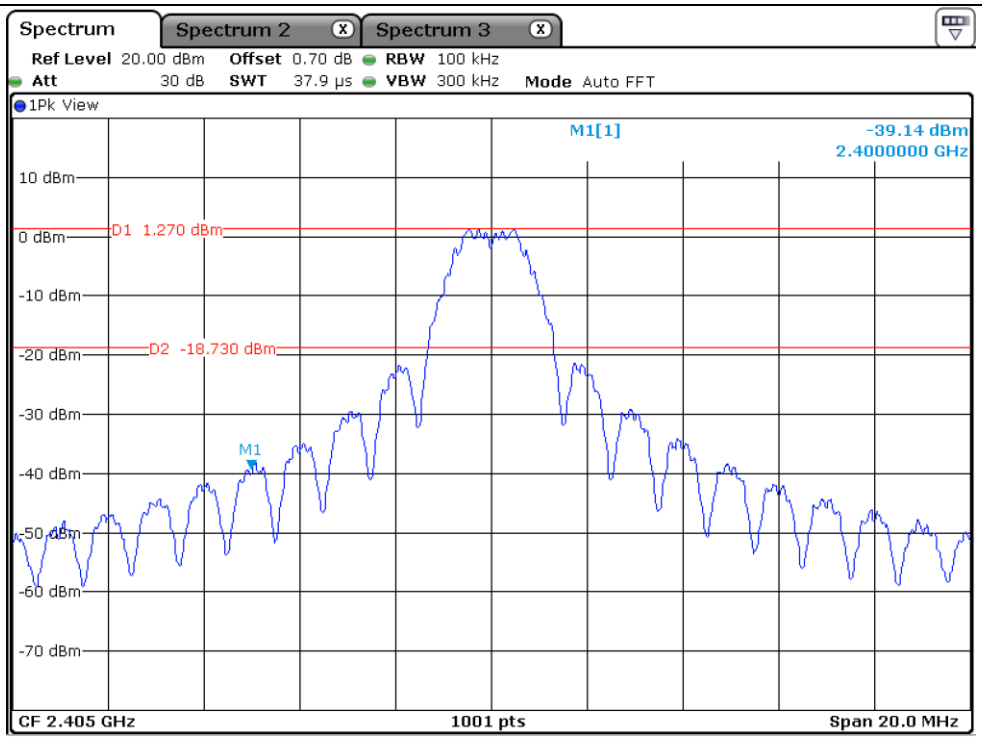
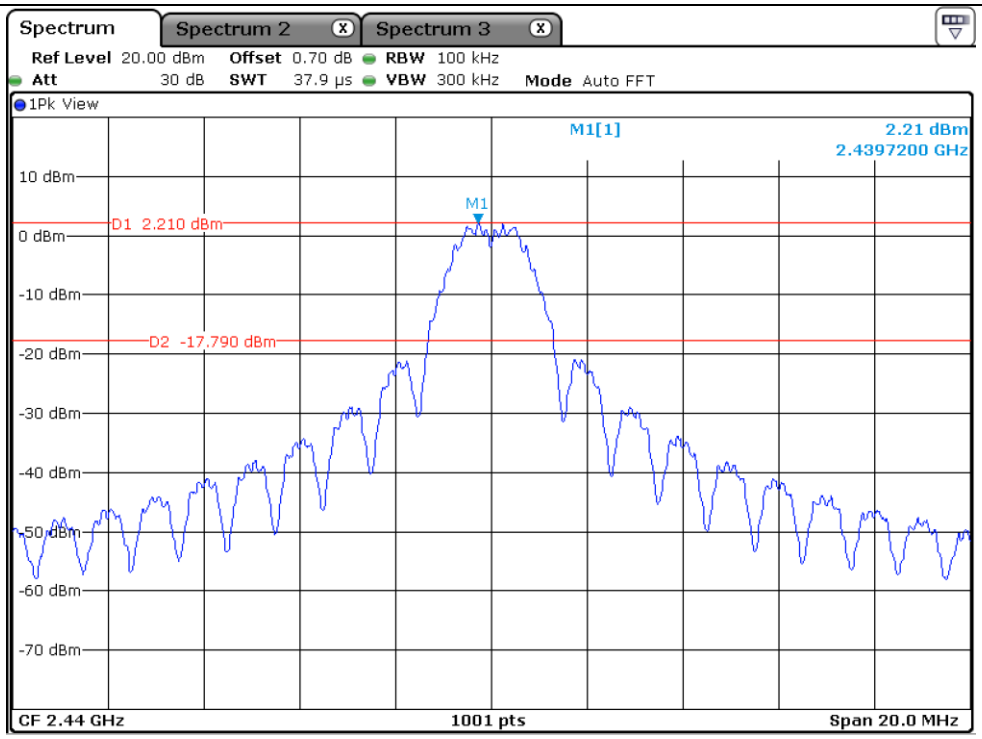
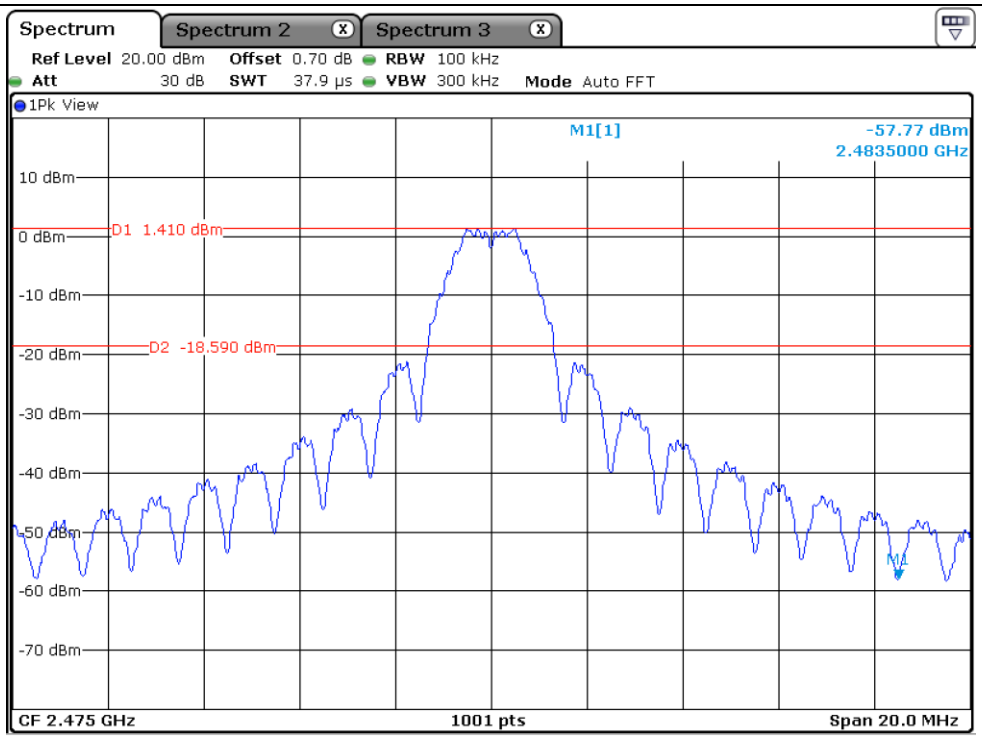
9.5 Test data for conducted emission



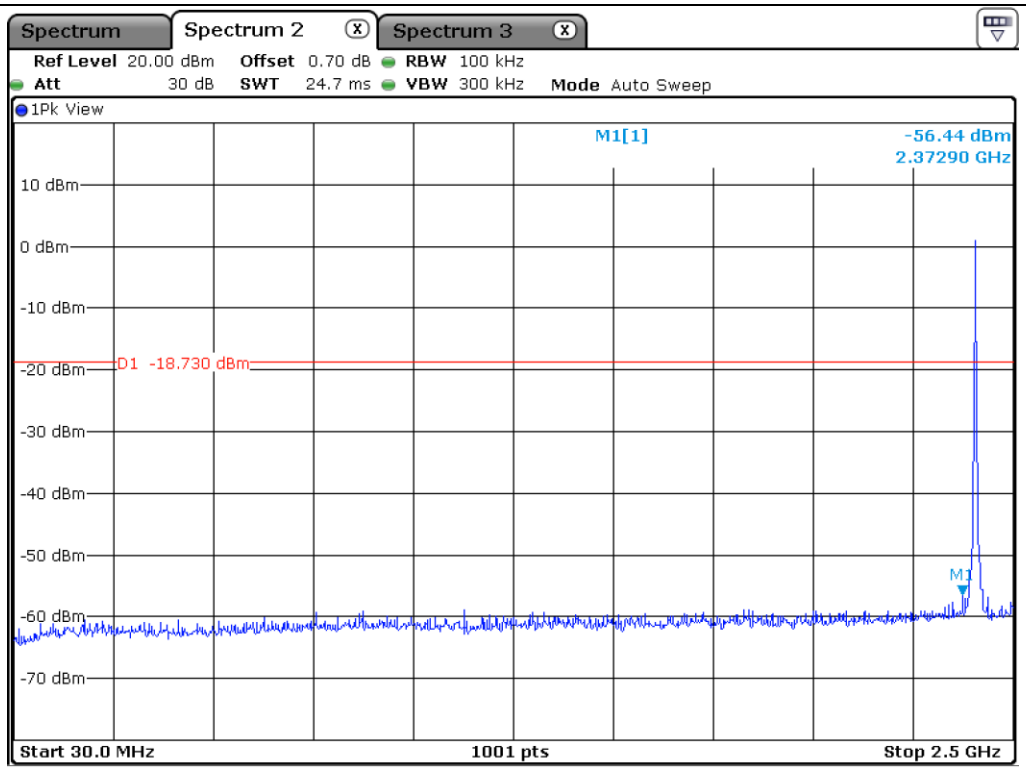
Low Channel



Middle Channel



High Channel



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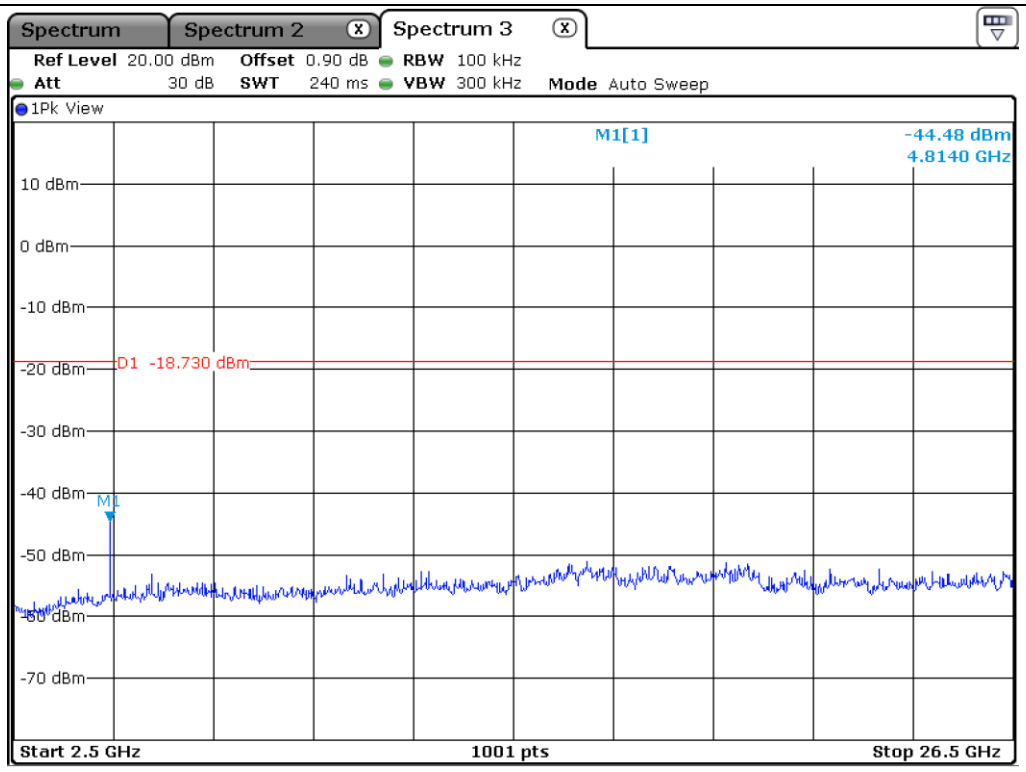
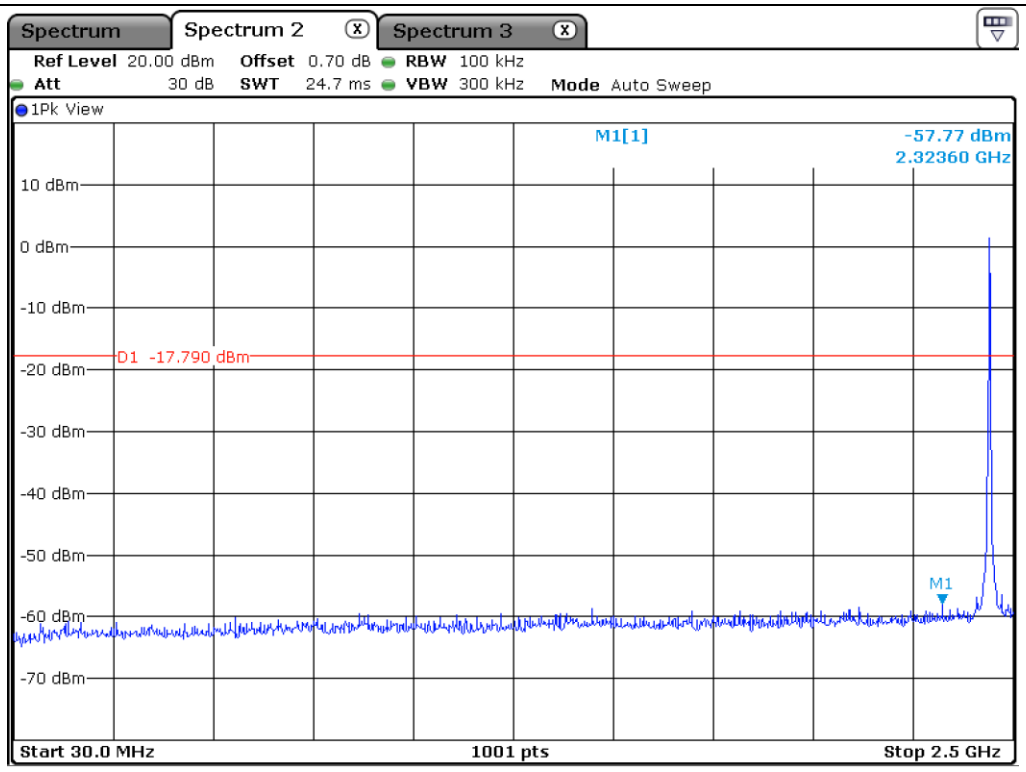
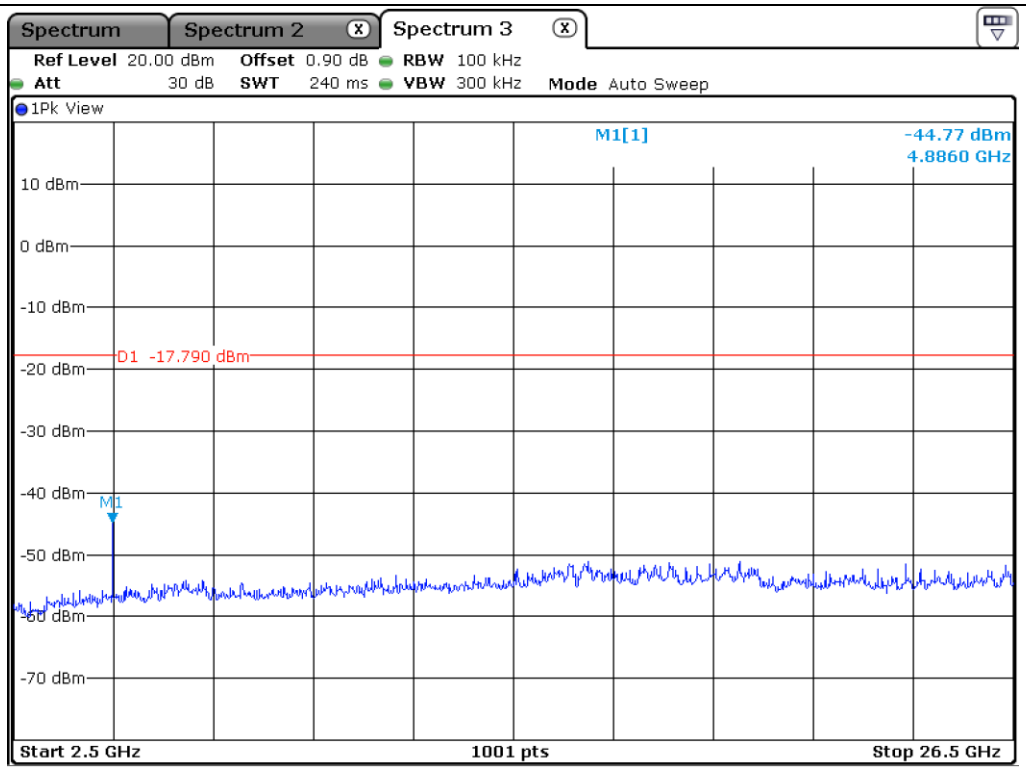


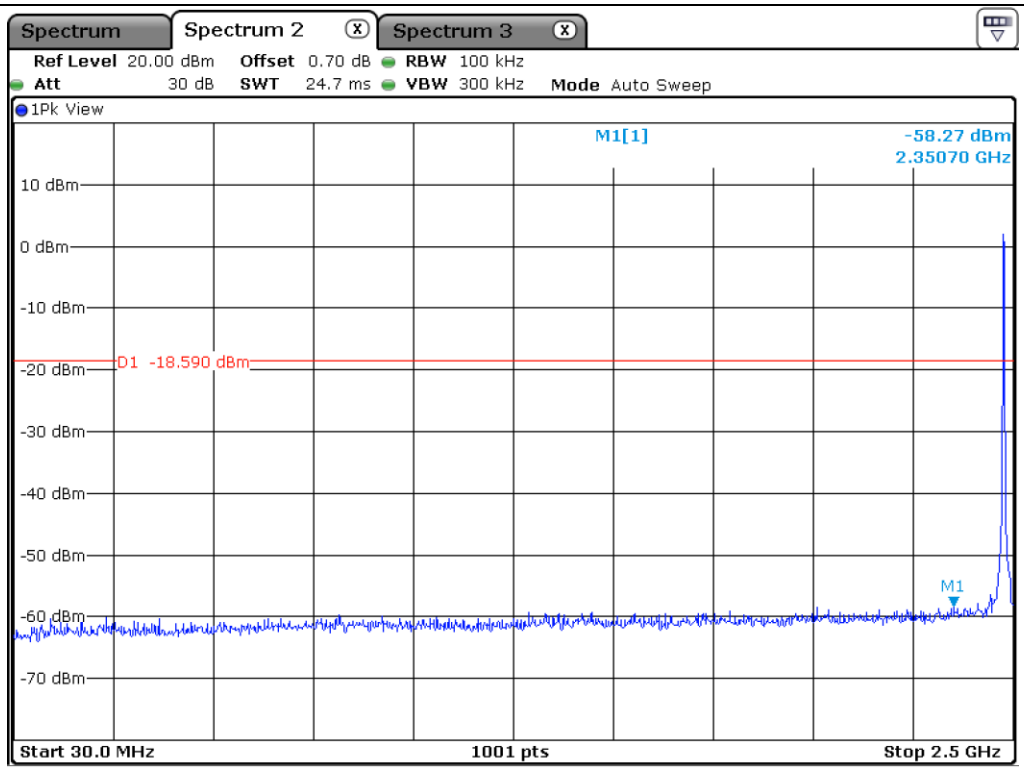
Low Channel



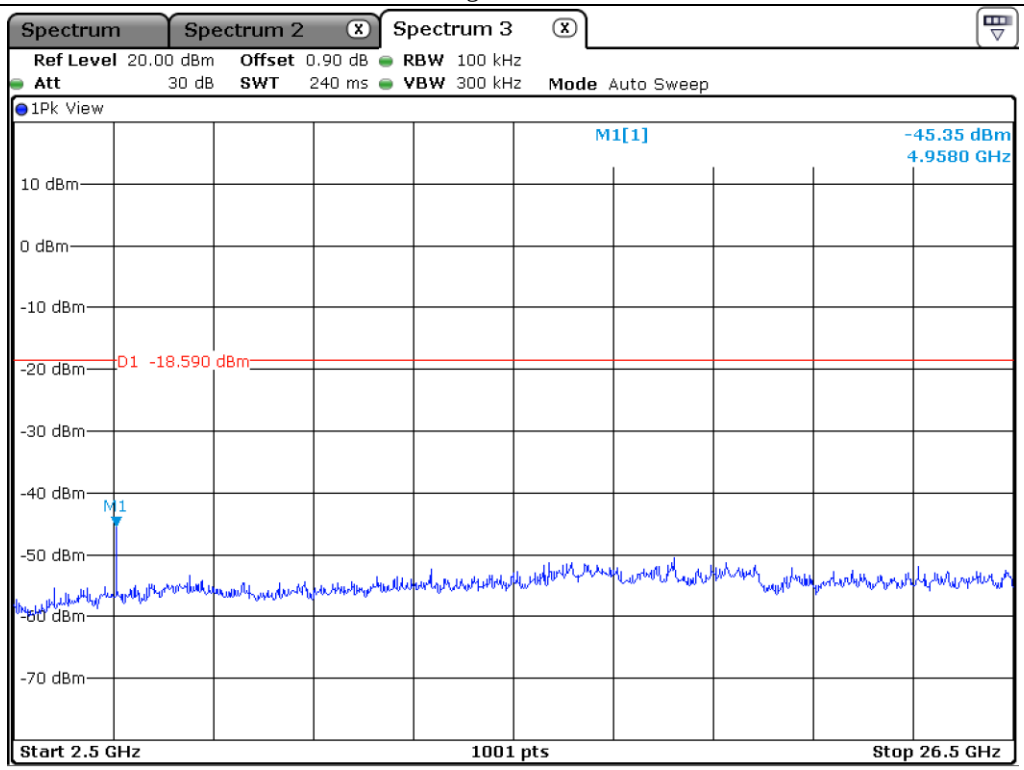
Middle Channel



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 : 40 %

-. 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)
Test Data for Low Channel										
2 388.54	58.47	Peak	H	28.30	8.20	44.10	-	50.87	74.00	23.13
2 389.08	-	Average	H	28.30	8.20	44.10	7.96	42.91	54.00	11.09
2 389.44	57.62	Peak	V	28.30	8.20	44.10	-	50.02	74.00	23.98
2 389.98	-	Average	V	28.30	8.20	44.10	7.96	42.06	54.00	11.94
Test Data for High Channel										
2 483.50	59.40	Peak	H	28.70	8.33	44.10		52.33	74.00	21.67
2 483.50	-	Average	H	28.70	8.33	44.10	7.96	44.37	54.00	9.63
2 483.50	55.20	Peak	V	28.70	8.33	44.10		48.13	74.00	25.87
2 483.50	-	Average	V	28.70	8.33	44.10	7.96	40.17	54.00	13.83

Tabulated test data for Restricted Band

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

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss - Duty Factor - 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 : 40 %

-. 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)
Test Data for Low Channel										
4 810.00	57.15	Peak	H	33.40	11.21	44.10	-	57.66	74.00	16.34
4 810.00	-	Average	H	33.40	11.21	44.10	7.96	49.70	54.00	4.30
4 810.00	57.86	Peak	V	33.40	11.21	44.10	-	58.37	74.00	15.63
4 810.00	-	Average	V	33.40	11.21	44.10	7.96	50.41	54.00	3.59
Test Data for Middle Channel										
4 880.00	57.53	Peak	H	33.50	11.23	44.10	-	58.16	74.00	15.84
4 880.00	-	Average	H	33.50	11.23	44.10	7.96	50.20	54.00	3.80
4 880.00	57.61	Peak	V	33.50	11.23	44.10	-	58.24	74.00	15.76
4 880.00	-	Average	V	33.50	11.23	44.10	7.96	50.28	54.00	3.72
Test Data for High Channel										
4 950.00	56.50	Peak	H	33.40	11.31	44.10	-	57.11	74.00	16.89
4 950.00	-	Average	H	33.40	11.31	44.10	7.96	49.15	54.00	4.85
4 950.00	56.64	Peak	V	33.40	11.31	44.10	-	57.25	74.00	16.75
4 950.00	-	Average	V	33.40	11.31	44.10	7.96	49.29	54.00	4.71

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

Margin (dB) = Limits (dBµV/m) - Total Level (dBµV/m)

Total Level = Reading + Antenna Factor + Cable Loss - Duty Factor - AMP Gain

10. PEAK POWER SPECTRAL DENSITY

10.1 Operating environment

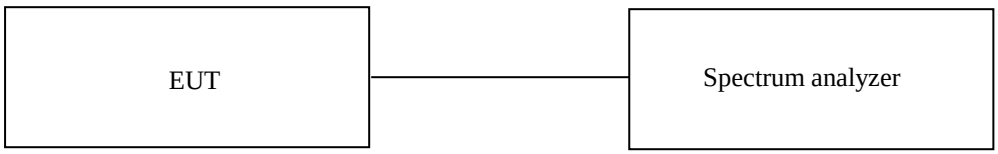
Temperature : 22 °C

Relative humidity : 46 % 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 kHz ≤ RBW ≤100 kHz, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Test Date

October 12, 2021 ~ October 22, 2021

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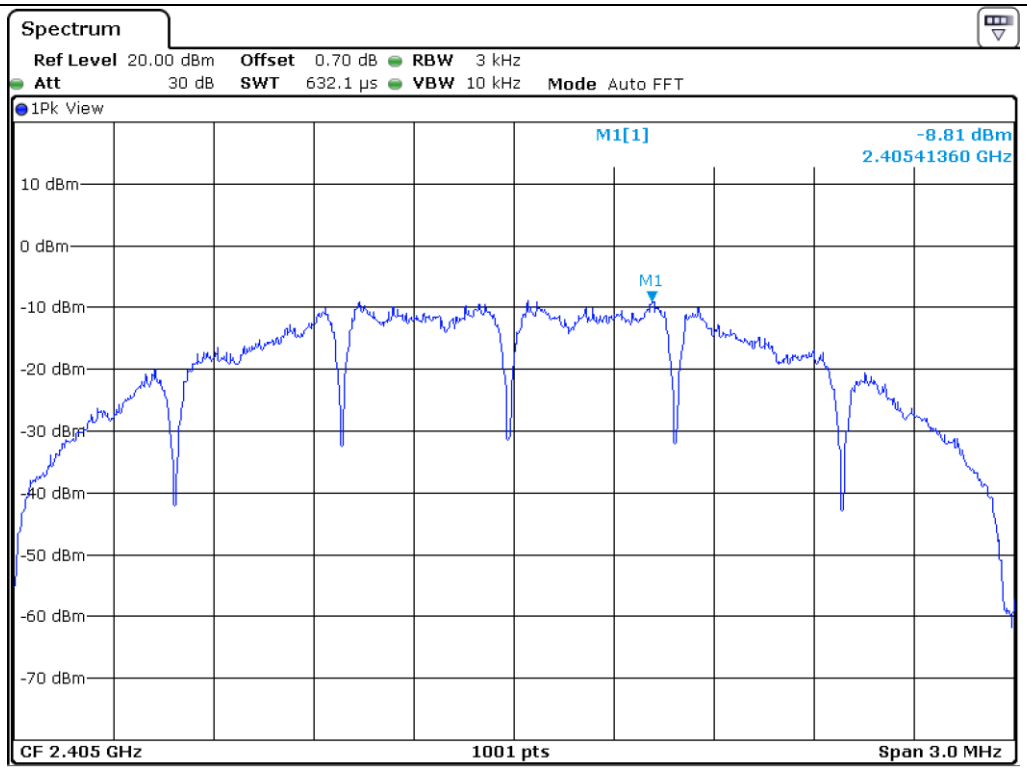
10.4 Test data

-. Test Result : Pass

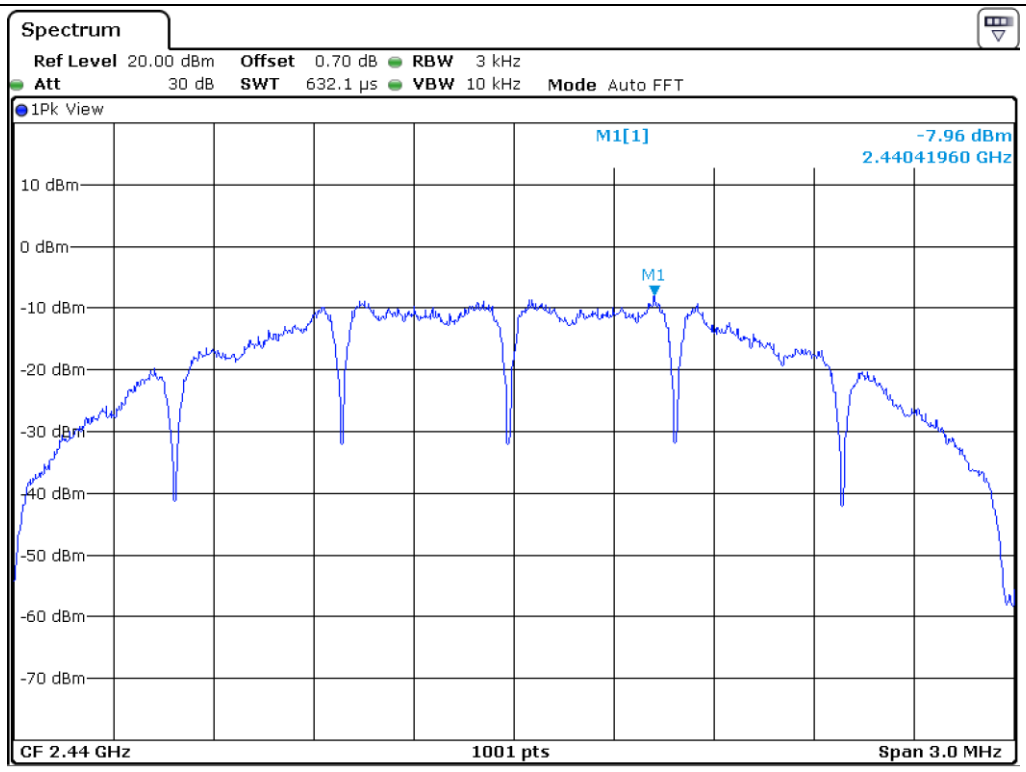
-. Operating Condition : Continuous transmitting mode

Channel	Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Low	2 405.00	-8.81	8.00	16.81
Middle	2 440.00	-7.96	8.00	15.96
High	2 475.00	-9.10	8.00	17.10

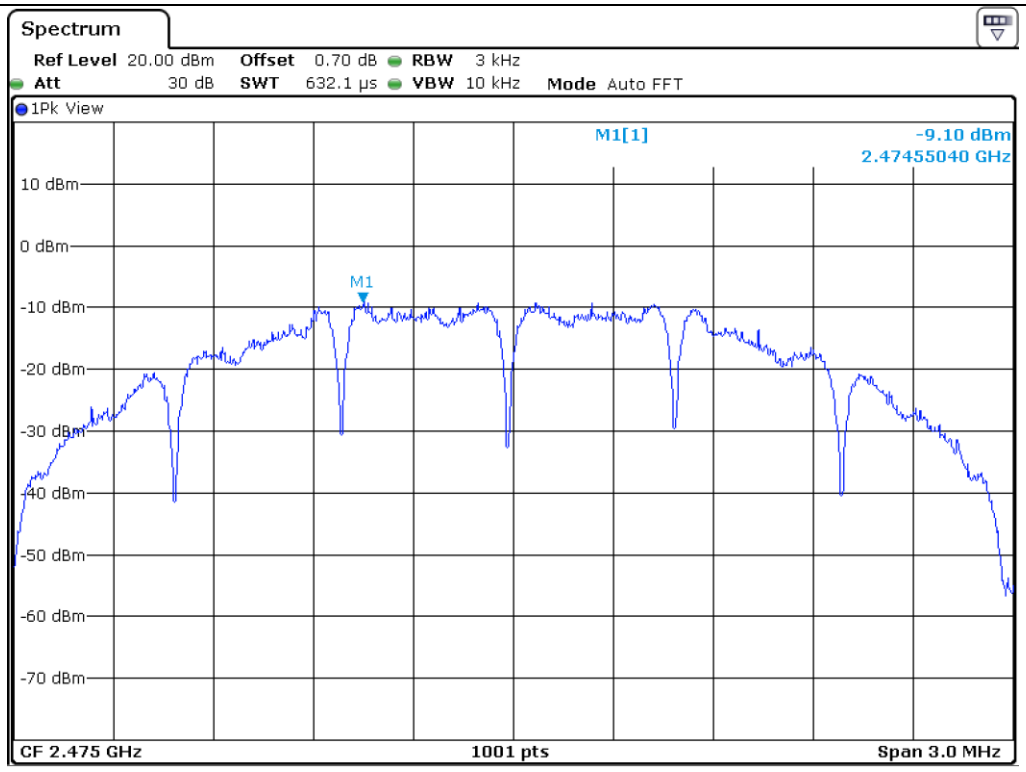
Remark. Margin = Limit – Measured value (=Receiver Reading + Cable Loss)



Low Channel



Middle Channel



High Channel

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11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature	:	22 °C
Relative humidity	:	46 % 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

October 12, 2021 ~ October 22, 2021

11.4 Test data for 30 MHz ~ 1000 MHz

Humidity Level : 46 % R.H. Temperature: 22 °C

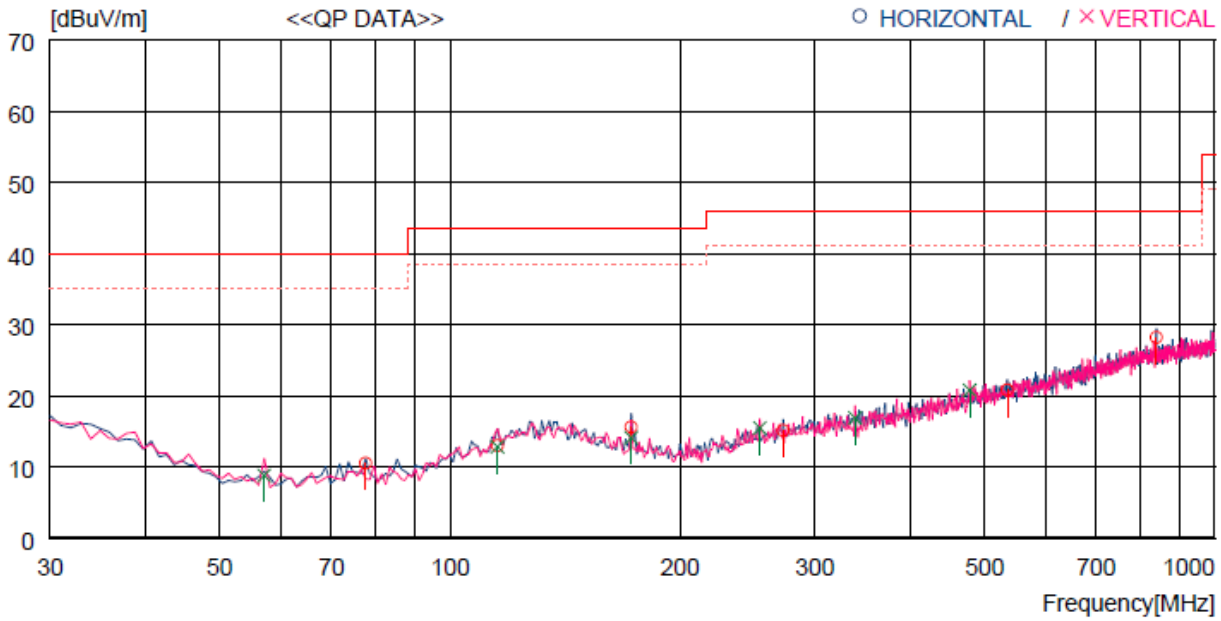
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : BLE/RF4CE Remote controller

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

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 5 dB



No.	FREQ	READING QP	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal ------										
1	77.530	27.9	12.9	1.7	32.0	10.5	40.0	29.5	100	119
2	115.360	25.3	17.8	1.9	32.0	13.0	43.5	30.5	100	175
3	172.590	28.2	17.1	2.3	32.0	15.6	43.5	27.9	100	152
4	272.500	25.8	18.4	2.9	32.0	15.1	46.0	30.9	100	135
5	535.370	25.6	23.5	4.0	32.3	20.8	46.0	25.2	100	168
6	838.971	27.7	27.3	5.1	31.9	28.2	46.0	17.8	100	129
----- Vertical ------										
7	57.160	27.0	12.4	1.5	32.1	8.8	40.0	31.2	100	138
8	115.360	25.1	17.8	1.9	32.0	12.8	43.5	30.7	100	138
9	172.590	26.7	17.1	2.3	32.0	14.1	43.5	29.4	100	130
10	254.070	26.8	17.9	2.8	32.0	15.5	46.0	30.5	100	138
11	338.460	25.9	19.8	3.2	32.0	16.9	46.0	29.1	100	95
12	478.141	26.7	22.6	3.8	32.3	20.8	46.0	25.2	100	95

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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. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	101457	Apr. 16, 2021 (1Y)
ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 23, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 16, 2021 (1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Feb. 28, 2021 (1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	10041	Oct. 14, 2021 (1Y)
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2021 (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)

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