

Project No: TM-2411000055P
Report No.: TMWK2411003831KR

FCC ID: 2ATPY-SMC-V3

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FCC RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

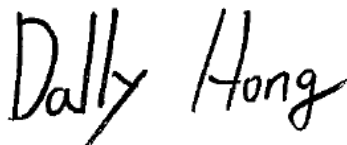
Test Standard	FCC Part 15.249
Product name	SMC Series
Brand Name	AXIOMTEK
Model No.	SMC V3.0 - EM317, SMC V3.X - EM317 (X can be 0-9, A-Z, a-z, "-", "_", "/" or blank)
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Dally Hong
Sr. Engineer

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 9, 2024	Initial Issue	ALL	Peggy Tsai
01	December 24, 2024	See the following Note Rev. (01)	P.5	Peggy Tsai

Note:

Rev. (01)

1. Modify antenna information in section 1.3.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	AXIOMTEK CO., LTD. 8F., No.55, Nanxing Road, Xizhi District, New Taipei City 221026, Taiwan
Manufacturer	AXIOMTEK CO., LTD. 8F., No.55, Nanxing Road, Xizhi District, New Taipei City 221026, Taiwan
Equipment	SMC Series
Model Name	SMC V3.0 - EM317, SMC V3.X - EM317 (X can be 0-9, A-Z, a-z, "-", " ", "/" or blank)
Model Discrepancy	Difference of the those model number (list on this report) are just for marketing purpose only.
Trade name	AXIOMTEK
Received Date	November 4, 2024
Date of Test	November 4 ~ 21, 2024
Power Operation	Power by AC Power (AC 110V)

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

1.2 EUT CHANNEL INFORMATION

Frequency Range	915 MHz
Modulation Type	LoRa
Number of channels	1 Channel

1.3 ANTENNA INFORMATION

Antenna Type	☐ CHIP ☐ PCB ☐ Dipole ☒ Omni-directional Pattern Antenna
Antenna Brand / Model	Brand: Panorama Antennas Ltd Model: MAR868-2SP
Antenna Gain	Gain: 4 dBi
Antenna Connector	SMA PLUG

Notes:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.21 dB
Channel Bandwidth	± 2.79 dB
Radiated Emission_9kHz-30MHz	± 3.492 dB
Radiated Emission_30MHz-200MHz	± 3.683 dB
Radiated Emission_200MHz-1GHz	± 3.966 dB
Radiated Emission_1GHz-6GHz	± 5.063 dB
Radiated Emission_6GHz-18GHz	± 5.122 dB
Radiated Emission_18GHz-26GHz	± 3.032 dB
Radiated Emission_26GHz-40GHz	± 3.271 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Ben Yang	--
Radiation	Ray Li	--
RF Conducted	Jerry Chang	--

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309.

1.6 INSTRUMENT CALIBRATION

Conducted FCC/IC/NCC (All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Cable	Woken	WC12	SS02	2024-06-26	2025-06-25
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2024-10-04	2025-10-03
DC Blocks	Marvelous Microwave	MVE6411	MVE-002	2024-08-08	2025-08-07
Attenuator	Marvelous Microwave Inc	MVE2213-10	08	2023-11-07	2024-11-06
Software	N/A				

966A Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2024-03-15	2025-03-14
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-08	2024-12-07
Active Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-028	2023-12-13	2024-12-12
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2024-07-12	2025-07-11
Preamplifier	EMEC	EM330	060609	2024-02-21	2025-02-20
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-08-07	2025-08-06
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-12-28	2024-12-27
Preamplifier	HP	8449B	3008A00965	2023-12-22	2024-12-21
Cable	EMCI	EMC101G	221011+221012+221213	2024-10-11	2025-10-10
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Site Validation	CCS	966A	N/A	2024-08-03	2025-08-02
Software	e3 V9-210616c				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

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AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2024-06-14	2025-06-13
LISN	TESEQ	LN2-16N	22012	2024-02-29	2025-02-27
Cable	Woken	SFL402	185A	2024-07-08	2025-07-07
Software	e3 V6-110812				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

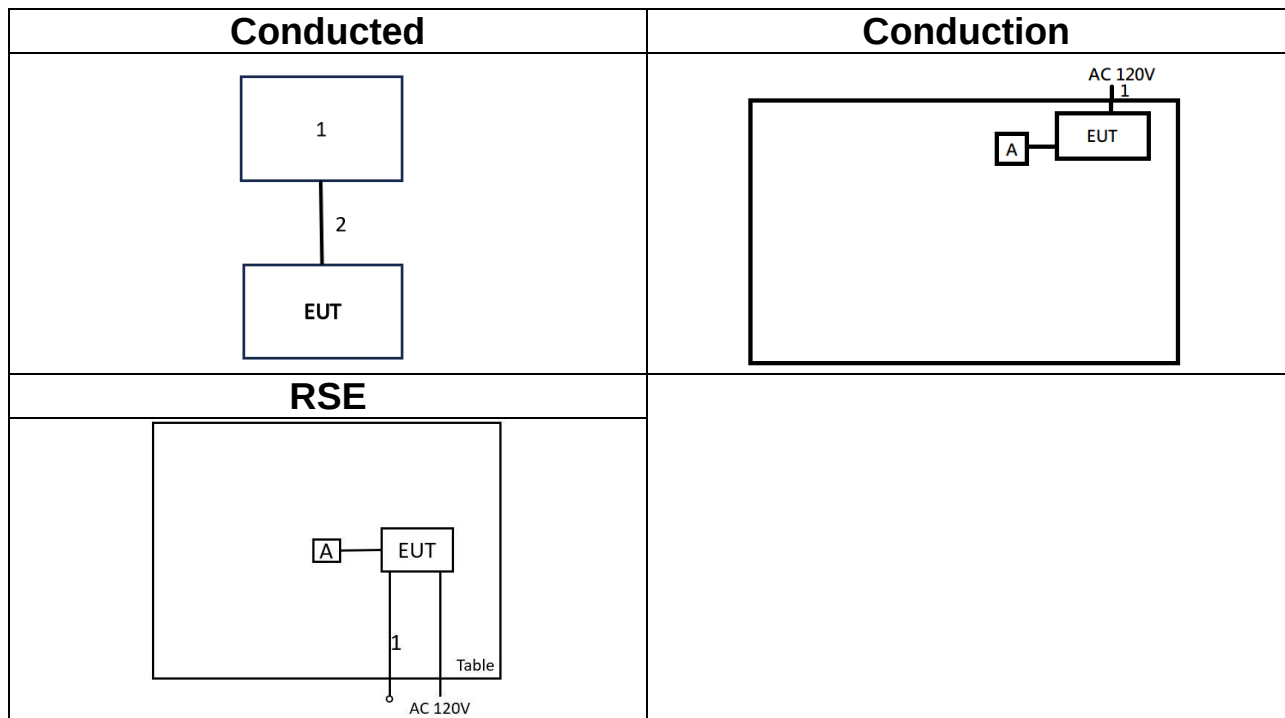
EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	Monitor	ViewSonic	VS16263	N/A	N/A
2	HDMI Cable	High Speed	E342987	N/A	N/A

Support Equipment (Conduction)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	Power Cable	N/A	N/A	N/A	N/A
A	Antenna	N/A	N/A	N/A	N/A

Support Equipment (Radiated)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	Ethernet Cable	Jia-Yi	CAT5e	68174	N/A
A	Antenna	N/A	N/A	N/A	N/A

1.8 TEST SET UP DIAGRAM



1.9 TEST PROGRAM

The EUT connection corresponds to the surrounding fixture control board.
This EUT uses "Command Prompt" and setup command to set the frequency, modulation, and power to allow the sample to continuously transmit.

1.10 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 15.249.

2. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.215	4.2	20dB Bandwidth and Occupied Bandwidth (99%)	Pass
15.249(a)	4.3	Filed strength of fundamental	Pass
15.249(a)	4.3	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF MEASUREMENT

AC Power Line Conduction Emission	
Test Condition	AC Power line conduction emission for line and neutral
Power supply Mode	Mode 1: EUT Power by AC 120V
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by AC(120V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by AC(120V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission were performed the EUT transmit at the highest output power channel as worse case.
3. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report.

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a),

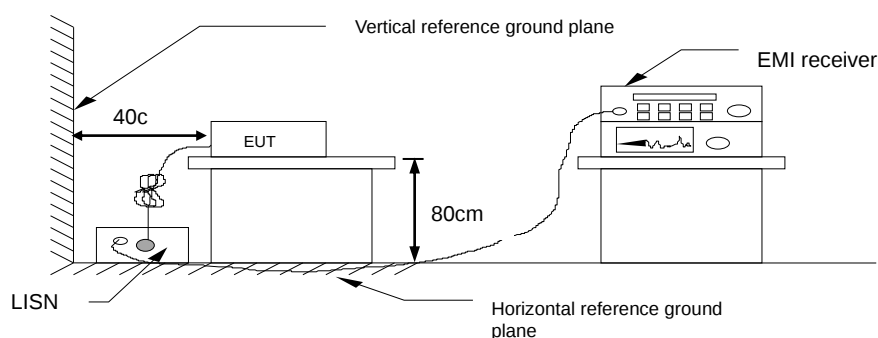
Frequency Range (MHz)	Limits(dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

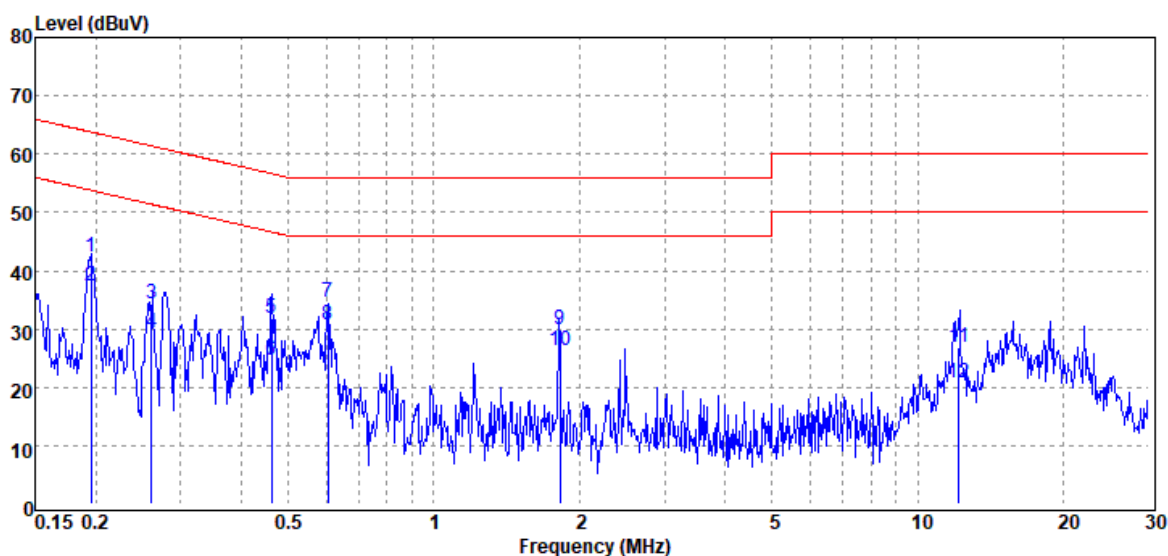
1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Project No : TM-2411000055P Test Date : 2024-11-21
Operation Mode : 915MHz Temp./Humi. : 23.4°C / 54%
Test Chamber : Conduction Engineer : Ben Yang
Probe : LINE Test Voltage : AC 120V/60Hz
Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.196	QP	41.93	0.37	42.30	63.80	-21.50
0.196	Average	37.01	0.37	37.38	53.80	-16.42
0.261	QP	34.00	0.39	34.39	61.39	-27.00
0.261	Average	28.84	0.39	29.23	51.39	-22.16
0.462	QP	31.57	0.38	31.95	56.66	-24.71
0.462	Average	24.21	0.38	24.59	46.66	-22.07
0.605	QP	34.21	0.38	34.59	56.00	-21.41
0.605	Average	30.45	0.38	30.83	46.00	-15.17
1.823	QP	29.80	0.18	29.98	56.00	-26.02
1.823	Average	26.07	0.18	26.25	46.00	-19.75
12.145	QP	26.50	0.39	26.89	60.00	-33.11
12.145	Average	20.37	0.39	20.76	50.00	-29.24

Note: 1. Actual FS= Spectrum Read Level + Factor

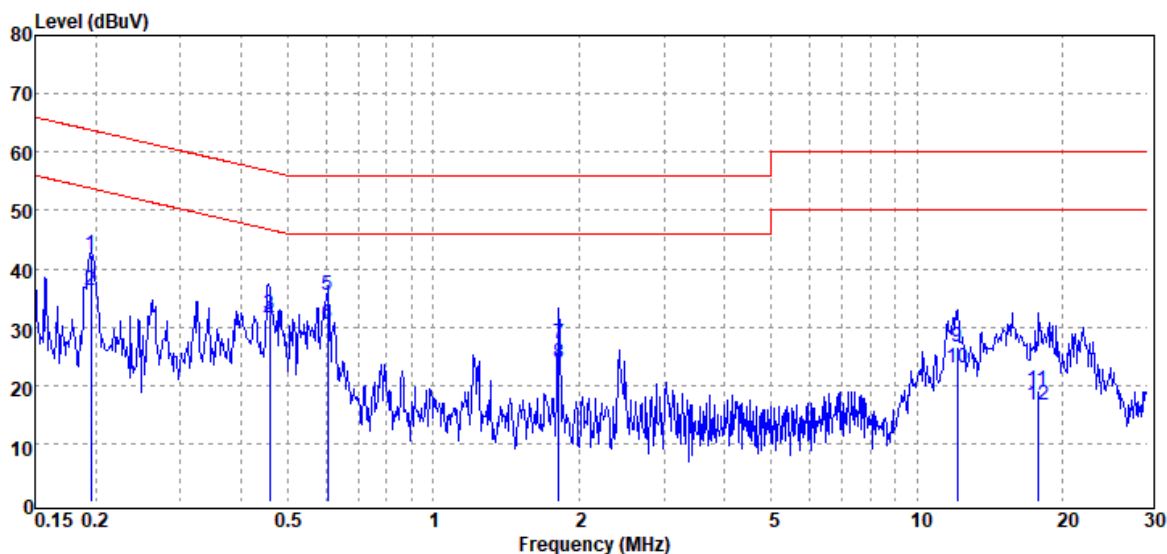
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2411000055P
Operation Mode : 915MHz
Test Chamber : Conduction
Probe : NEUTRAL
Note :

Test Date : 2024-11-21
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.196	QP	41.91	0.34	42.25	63.80	-21.55
0.196	Average	35.90	0.34	36.24	53.80	-17.56
0.458	QP	31.67	0.35	32.02	56.73	-24.71
0.458	Average	30.60	0.35	30.95	46.73	-15.78
0.605	QP	35.01	0.35	35.36	56.00	-20.64
0.605	Average	30.07	0.35	30.42	46.00	-15.58
1.813	QP	27.01	0.16	27.17	56.00	-28.83
1.813	Average	23.59	0.16	23.75	46.00	-22.25
12.131	QP	26.24	0.36	26.60	60.00	-33.40
12.131	Average	22.66	0.36	23.02	50.00	-26.98
17.807	QP	18.77	0.43	19.20	60.00	-40.80
17.807	Average	16.12	0.43	16.55	50.00	-33.45

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

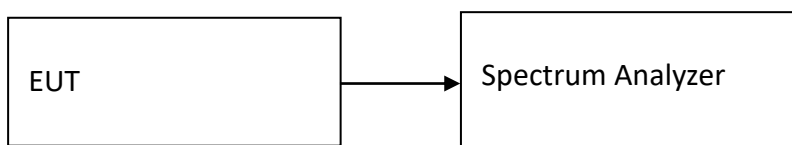
4.2 20dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

LIMIT

20 dB Bandwidth : For reporting purposes only.

Occupied Bandwidth(99%) : For reporting purposes only.

Test Configuration



TEST PROCEDURE

Test method Refer as ANSI C63.10: 2013 clause 6.9.2

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 20 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

TEST RESULTS

Compliance.

Temperature: 21.4°C

Test date: November 4, 2024

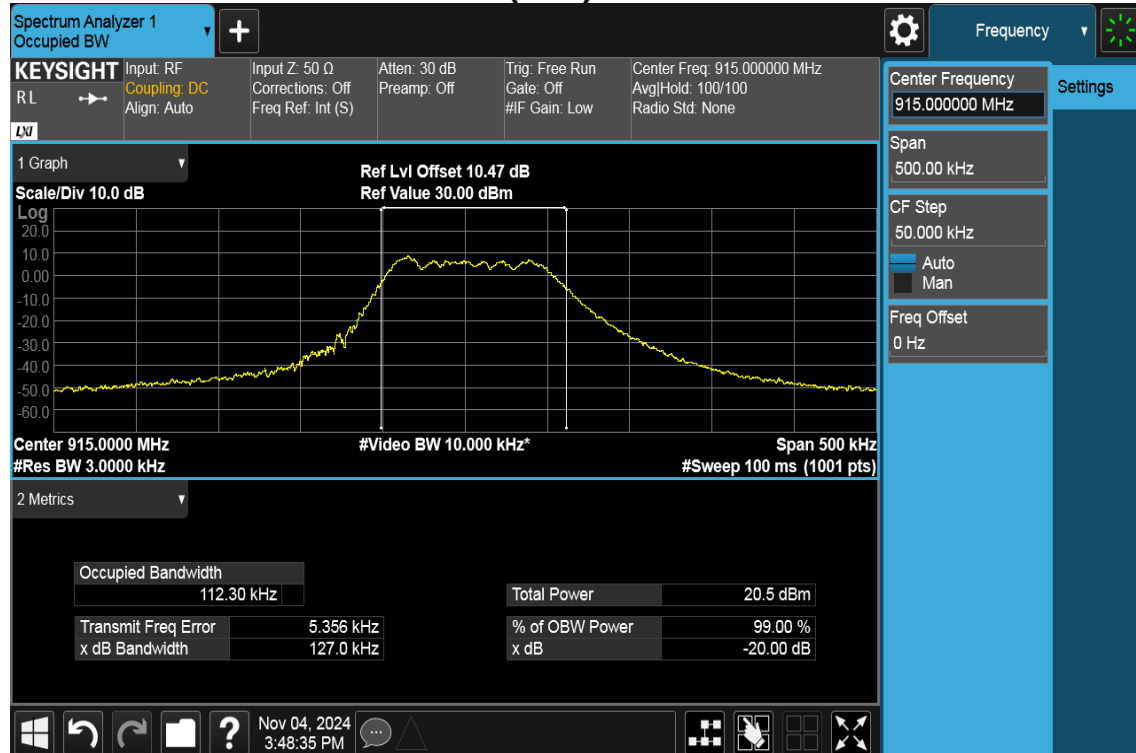
Humidity: 57% RH

Tested by: Jerry Chang

Frequency (MHz)	Occupied Bandwidth 99% (MHz)	20 dB Bandwidth (MHz)
915	0.127	0.08

Test Plot

20dB Bandwidth & BANDWIDTH (99%)



4.3 FIELD STRENGTH OF FUNDAMENTAL AND SPURIOUS EMISSION

4.3.1 Test Limit

According to §15.249(a)

(1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

* Field strength limits are specified at a distance of 3 meters

Fundamental Limit Conversion		
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Peak (dBuV/m) at 3M
50	93.98	113.98

Harmonic Limit Conversion		
Average (uV/m) at 3M	Average (dBuV/m) at 3M	Peak (dBuV/m) at 1M
500	53.97	73.97

*(Limit=20LOG(500)=53.79 dBuV/m)

(2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209(follow the table), whichever is the lesser attenuation

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	30
1.705-30 MHz	30	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

4.3.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m high and below 1 GHz is 0.8m high above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a)PEAK: RBW=1MHz / VBW=3MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz,

if duty cycle $\geq$ 98%, VBW=10Hz.

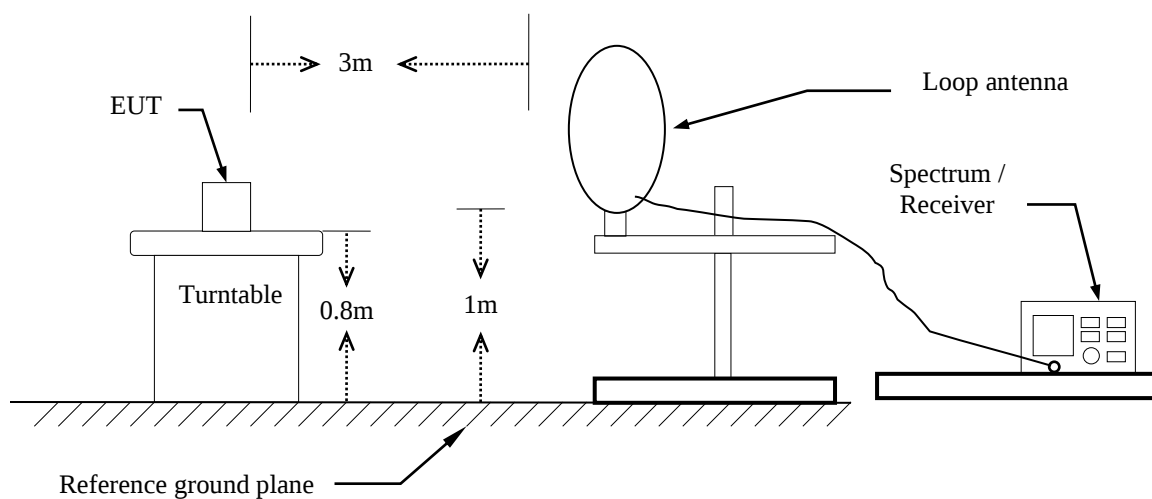
if duty cycle<98% VBW=1/T.

7. Repeat above procedures until the measurements for all frequencies are complete.
8. Result = Spectrum Reading + cable loss(spectrum to Amp) - Amp Gain + Cable loss(Amp to receive Ant)+ Receive Ant

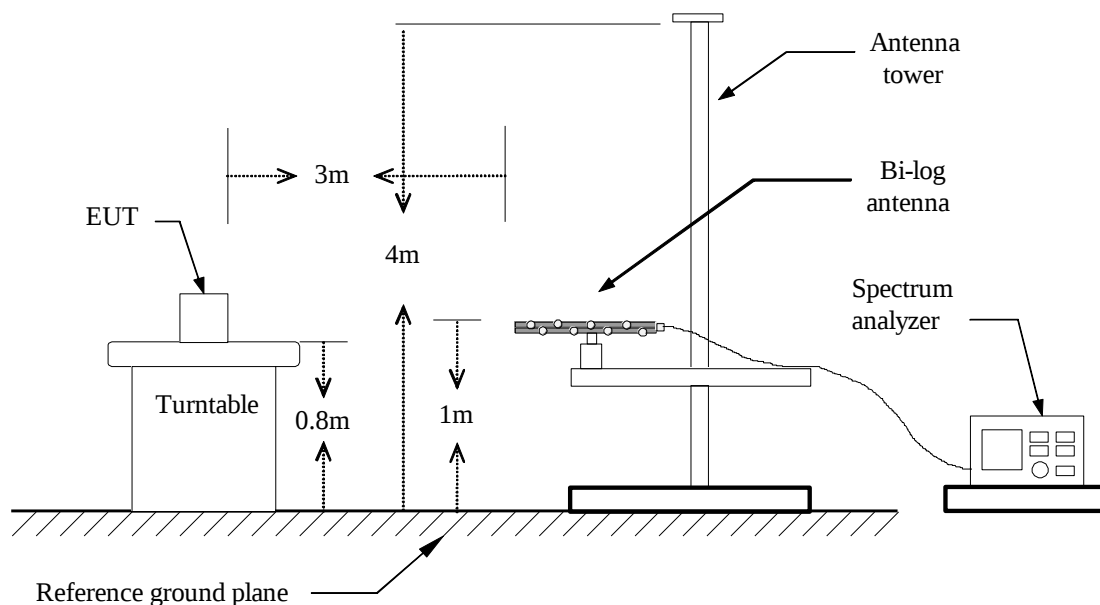
Note: We checked every harmonics frequencies from Fundamental frequencies with reduced VBW, and we mark a point to prove pass or not if we find any emission. For this case, there are no emissions hidden in the noise floor.

4.3.3 Test Setup

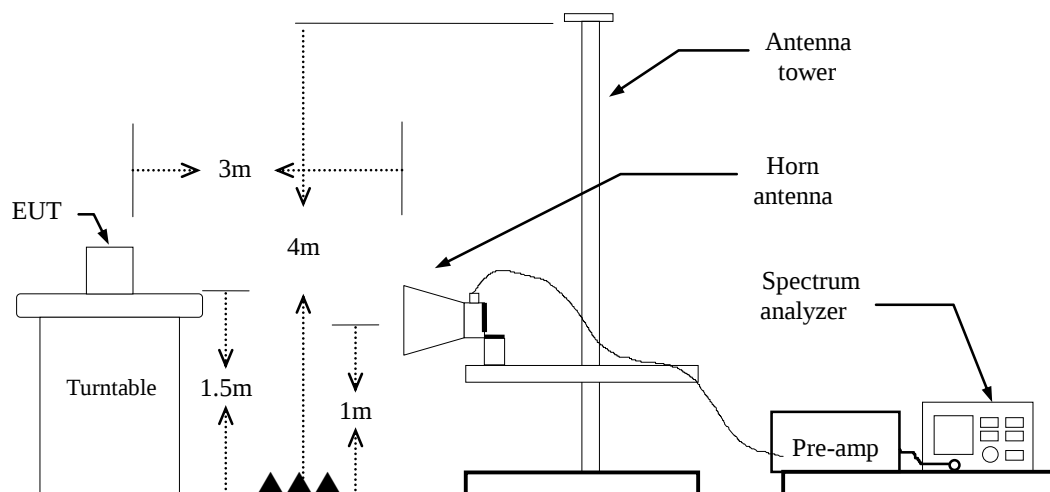
9kHz ~ 30MHz



30MHz ~ 1GHz



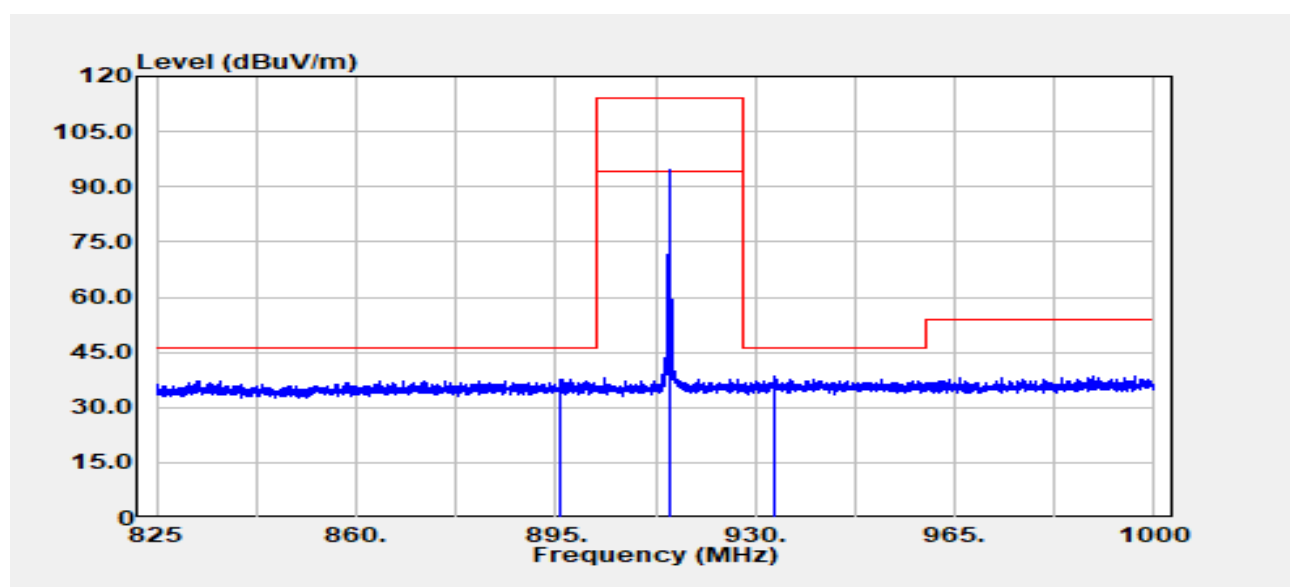
Above 1 GHz



4.3.4 Test Result

Band Edge Test Data

Project No	:TM-2411000055P	Test Date	:2024-11-14
Operation Band	:Lora	Temp./Humi.	:24.7/57
Frequency	:915 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:3		



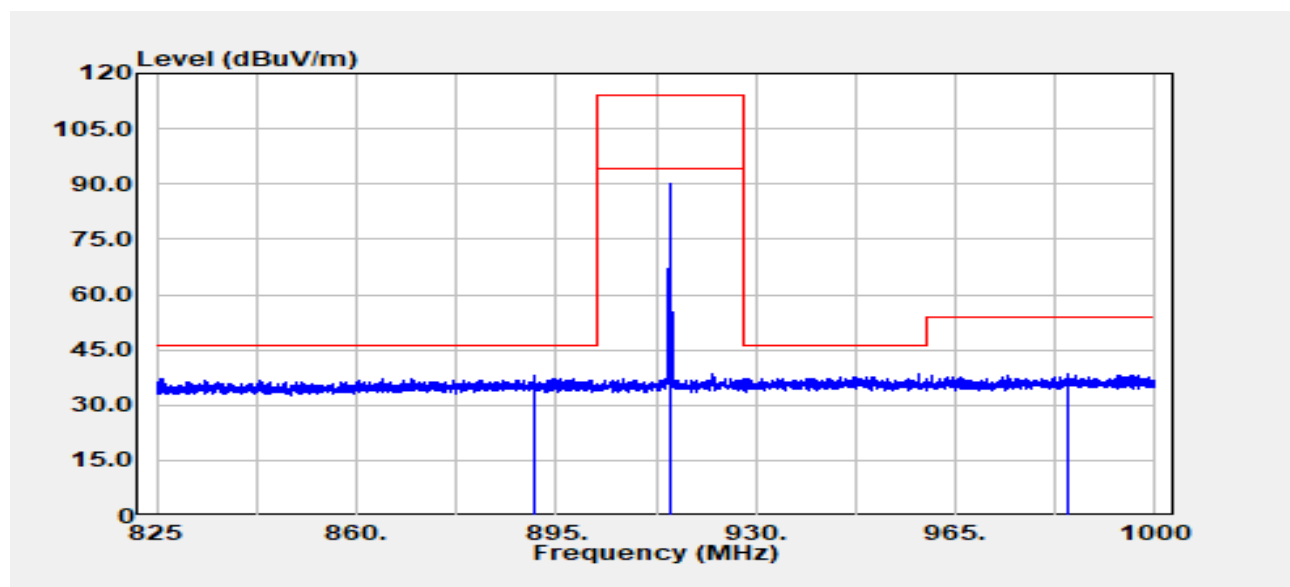
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
895.92	Peak	36.09	1.55	37.64	46.00	-8.36
915.00	Peak	92.97	1.64	94.61	114.00	-19.39
915.00	Average	88.79	1.64	90.43	94.00	-3.57
933.58	Peak	36.13	2.35	38.48	46.00	-7.52

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Operation Band :Lora
Frequency :915 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :3

Test Date :2024-11-14
Temp./Humi. :24.7/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



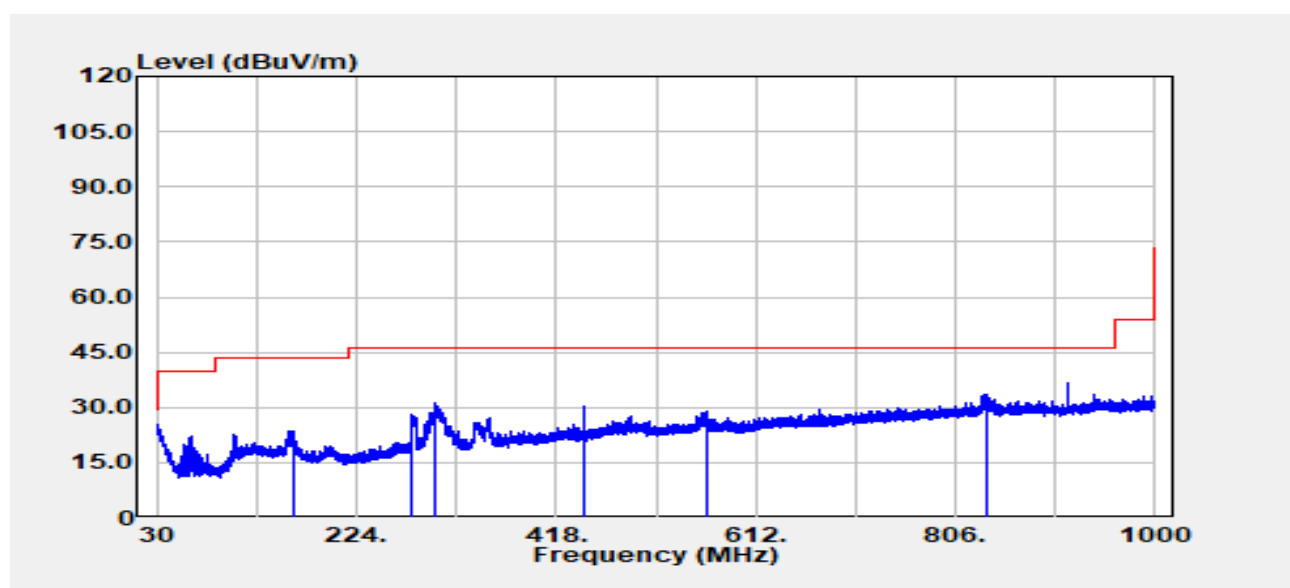
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
891.12	Peak	36.42	1.54	37.96	46.00	-8.04
915.00	Peak	88.26	1.64	89.90	114.00	-24.10
915.00	Average	84.92	1.64	86.56	94.00	-7.44
984.70	Peak	35.86	2.78	38.64	54.00	-15.36

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TX Test Data

Project No	:TM-2411000055P	Test Date	:2024-11-14
Operation Band	:Lora	Temp./Humi.	:24.7/57
Frequency	:915 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:3		



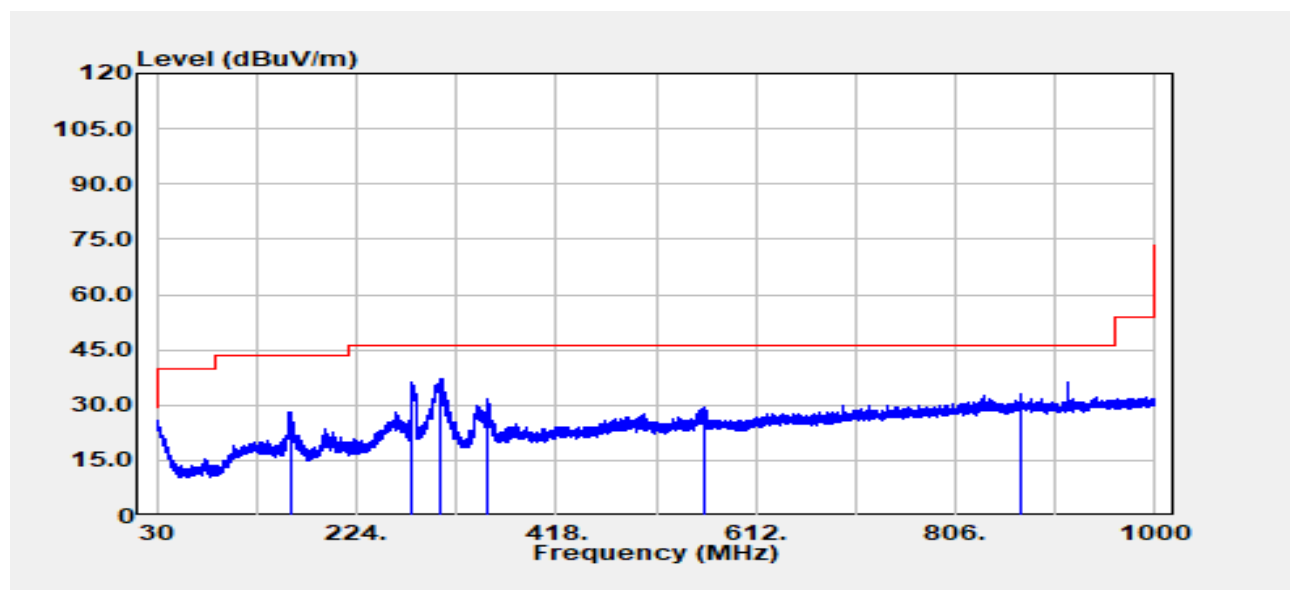
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
162.10	Peak	35.00	-11.26	23.74	43.50	-19.76
277.00	Peak	37.66	-9.56	28.10	46.00	-17.90
301.10	Peak	40.75	-9.31	31.44	46.00	-14.56
445.50	Peak	35.95	-5.39	30.56	46.00	-15.44
563.60	Peak	32.61	-3.45	29.16	46.00	-16.84
836.70	Peak	32.29	1.13	33.42	46.00	-12.58

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Rev. 01

Project No :TM-2411000055P
Operation Band :Lora
Frequency :915 MHz
Operation Mode :TX
EUT Pol :H
Setting :3

Test Date :2024-11-14
Temp./Humi. :24.7/57
Antenna Pol. :Horizontal
Engineer :Ray Li
Test Chamber : 966A



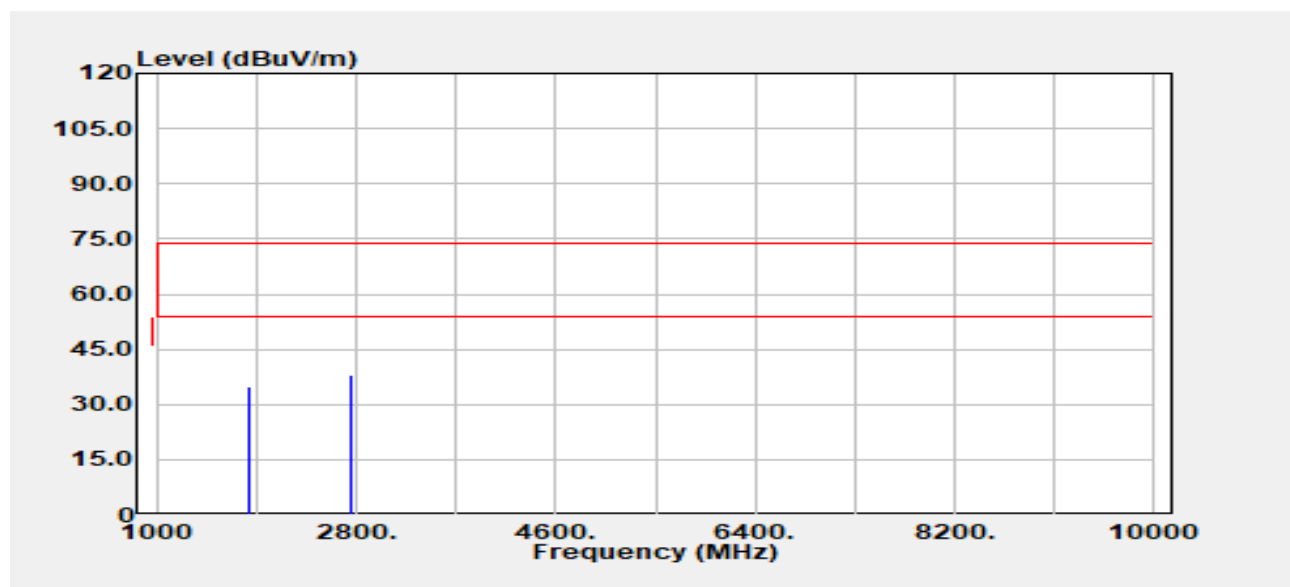
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
159.80	Peak	39.13	-11.04	28.09	43.50	-15.41
277.60	Peak	45.59	-9.57	36.02	46.00	-9.98
306.20	Peak	46.27	-9.21	37.06	46.00	-8.94
351.90	Peak	39.70	-8.19	31.52	46.00	-14.48
562.50	Peak	33.07	-3.48	29.59	46.00	-16.41
870.50	Peak	31.45	1.50	32.95	46.00	-13.05

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Rev. 01

Project No :TM-2411000055P
Operation Band :Lora
Frequency :915 MHz
Operation Mode :TX
EUT Pol :H
Setting :3

Test Date :2024-11-14
Temp./Humi. :24.7/57
Antenna Pol. :Vertical
Engineer :Ray Li
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
1830.00	Peak	40.85	-5.87	34.98	74.00	-39.02
1830.00	Average	34.79	-5.87	28.92	54.00	-25.08
2745.00	Peak	40.42	-2.43	37.99	74.00	-36.01
2745.00	Average	33.40	-2.43	30.98	54.00	-23.02

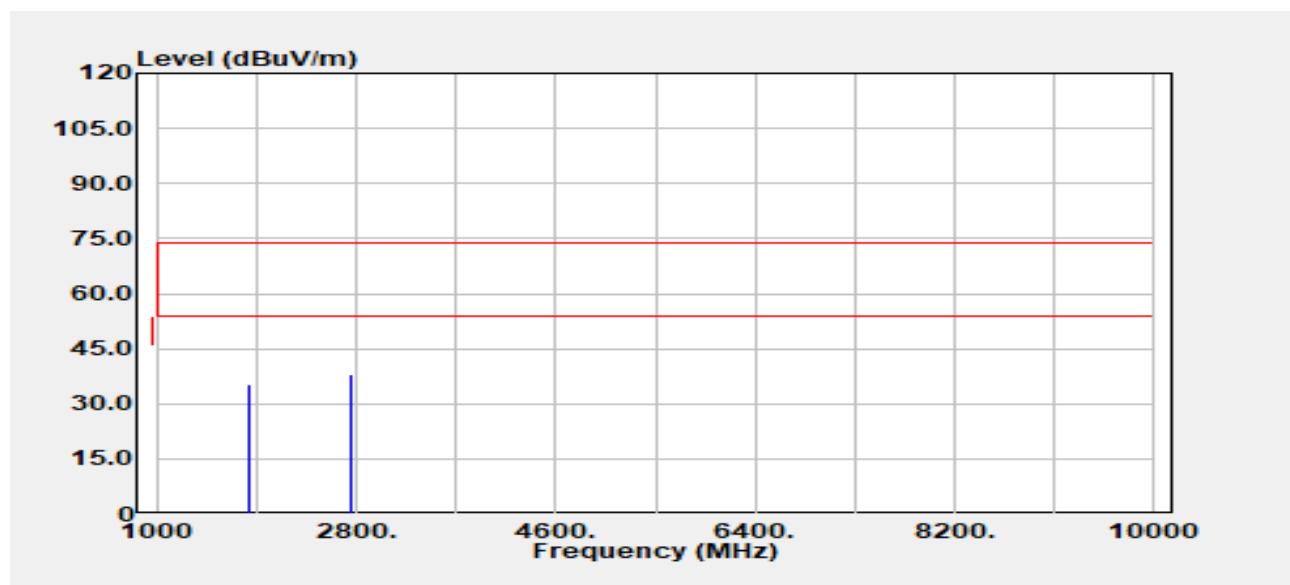
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

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Rev. 01

Project No	:TM-2411000055P	Test Date	:2024-11-14
Operation Band	:Lora	Temp./Humi.	:24.7/57
Frequency	:915 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:3		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
1830.00	Peak	41.37	-5.87	35.50	74.00	-38.50
1830.00	Average	34.66	-5.87	28.79	54.00	-25.21
2745.00	Peak	40.49	-2.43	38.06	74.00	-35.94
2745.00	Average	33.44	-2.43	31.01	54.00	-22.99

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

- End of Test Report -