RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C
(Class II Permissive Change)

Test Standard	**FCC Part 15.247**
FCC ID	**2A3F5PQS-RD-11**
Product name	**Wireless Temperature Reader**
Brand Name	**PQSENSE**
Model No.	**PQS-RD-11/4, PQS-RD-11/8**
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

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 23, 2021	Initial Issue	ALL	Allison Chen
01	December 2, 2021	See the following Note Rev.(01)	P.1, P.4-5, P.7, P.9-10, P.13-17, P.31, P.34, Annex A	Allison Chen
02	December 20, 2021	See the following Note Rev.(02)	P.14-15, Annex A	Allison Chen
03	January 5, 2022	See the following Note Rev.(03)	P.5	Allison Chen
04	January 7, 2022	See the following Note Rev.(04)	P.5	Allison Chen
05	January 10, 2022	See the following Note Rev.(05)	P.6	Allison Chen
06	March 17, 2022	See the following Note Rev.(06)	ALL	Allison Chen
07	March 22, 2022	See the following Note Rev.(07)	P.24-25	Allison Chen

Note:

Rev.(01)

1. Modified model name.
2. Modified modulation type (Pseudorandom FH sequence) in section 1.2, worst mode description in section 3.2, dwell time test data in section 4.7.4, and remove irrelevant description test procedure in section 4.8.2.
3. Add conduction test data and test setup photo.

Rev.(02)

1. Modified worst mode description in section 3.2, conduction test data in section 4.1 and test setup photo.

Rev.(03)

1. Added information about the FHSS characteristics description in section 1.2.

Rev.(04)

1. Modified information about the FHSS characteristics description in section 1.2.

Rev.(05)

1. Modified frequency range in section 1.3.

Rev.(06)

1. Applicant added serial model number: PQS-RD-11/8 for 8 antenna port, as per requested to verified radiation for below 1GHz and conduction test data.
   Other test data is referenced from cross authorization(s) measurement results in the original test report (T210625D01-RP) under issue date (January 10, 2022) are fully leveraged in this test report.
2. Other information, please refer to the T210625D01 and this test report.

Rev.(07)

1. Modified radiated spurious emission below 1GHz high CH H/V test plot.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	PQSENSE TECHNOLOGY LTD. 8F ,No. 110, Section 2, Keelung Rd, Taipei , 106, Taiwan
Manufacturer	PQSENSE TECHNOLOGY LTD. 8F ,No. 110, Section 2, Keelung Rd, Taipei , 106, Taiwan
Equipment	Wireless Temperature Reader
Model Name	PQS-RD-11/4, PQS-RD-11/8
Model Discrepancy	PQS-RD-11/8 has 8 antenna ports. PQS-RD-11/4 has 4 antenna ports.
Received Date	March 2, 2022
Date of Test	March 4, 2022
Power Operation	1. Power from power supply. (AC 85~265V) 2. Power from power supply. (DC 24~48V)

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 INFORMATION ABOUT THE FHSS CHARACTERISTICS

1.2.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 50 channels. The hopping sequence is generated by random selecting from predefined RFID channels. The channel is dividing into time slots where each slot corresponds to a hop channel.

1.2.2 Equal Hopping Frequency Use

The channels of the system will be used equally over the long-term period, due to the nature of random selecting principle.

1.2.3 System Receiver Input Bandwidth

Each channel bandwidth is 500kHz.
The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequency in synchronization with the transmitted signals.

1.2.4 Equipment Description

The system receiver get the channel frequency from transmitter when sending out signal, it then adjust the receiving shift frequency accordingly.

1.3 EUT CHANNEL INFORMATION

Frequency Range	902.75MHz - 927.25MHz
Modulation Type	PR_ASK/Miller4.250
Number of channel	50 Channels

Remark:
Refer as ANSI 63.10:2013 clause 5.6.1 Table 4

Number of frequencies to be tested		
Frequency range in which device operates	**Number of frequencies**	**Location in frequency range of operation**
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.4 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☐ PCB ☐ Dipole ☒ UHF RFID Antenna
Antenna Gain	Gain: 4 dBi
Antenna Connector	SMA Male

Remark:
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.

1.5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 9K~30M	+/- 2.25
3M Semi Anechoic Chamber / 30M~1G (Horizontally)	+/- 3.91
3M Semi Anechoic Chamber / 30M~1G (Vertically)	+/- 4.57
3M Semi Anechoic Chamber / 1G~6G	+/- 5.20
3M Semi Anechoic Chamber / 6G~18G	+/- 5.18
3M Semi Anechoic Chamber / 18G~40G	+/- 3.68

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

1.6 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. (R.O.C.)
CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Jack Chen	-
Radiation	Ray Li	-
RF Conducted	-	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.7 INSTRUMENT CALIBRATION

Conduction (AC power line Conducted Test Site)					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
CABLE	EMCI	CFD300-NL	CERF	06/28/2021	06/27/2022
EMI Test Receiver	R&S	ESCI	100064	07/05/2021	07/04/2022
LISN	SCHAFFNER	NNB 41	03/10013	02/15/2022	02/14/2023
Software	EZ-EMC(CCS-3A1-CE-wugu)				

3M 966 Chamber Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/23/2022	02/22/2023
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	12/28/2021	12/27/2022
Pre-Amplifier	EMEC	EM330	060609	02/23/2022	02/22/2023
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 210616				

Remark: Each piece of equipment is scheduled for calibration once a year.

1.8 SUPPORT AND EUT ACCESSORIES EQUIPMENT

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

Support Equipment					
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**
1	DC Power Source	GWINSTEK	SPS-3610	N/A	N/A
2	NB	Lenovo	TP0056A	N/A	N/A

1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247.

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
15.247(a)(1)	-	20 dB Bandwidth	N/A
-	-	Occupied Bandwidth (99%)	N/A
15.247(b)(2)	-	Output Power Measurement	N/A
15.247(a)(1)	-	Frequency Separation	N/A
15.247(a)(1)(i)	-	Number of Hopping	N/A
15.247(d)	-	Conducted Band Edge	N/A
15.247(d)	-	Conducted Spurious Emission	N/A
15.247(a)(1)(iii)	-	Time of Occupancy	N/A
15.247(d)	-	Radiation Band Edge	N/A
15.247(d)	4.2	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Test Channel Frequencies	902.75MHz, 914.75MHz, 927.25MHz
Channel List	

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	902.75	26	915.25
2	903.25	27	915.75
3	903.75	28	916.25
4	904.25	29	916.75
5	904.75	30	917.25
6	905.25	31	917.75
7	905.75	32	918.25
8	906.25	33	918.75
9	906.75	34	919.25
10	907.25	35	919.75
11	907.75	36	920.25
12	908.25	37	920.75
13	908.75	38	921.25
14	909.25	39	921.75
15	909.75	40	922.25
16	910.25	41	922.75
17	910.75	42	923.25
18	911.25	43	923.75
19	911.75	44	924.25
20	912.25	45	924.75
21	912.75	46	925.25
22	913.25	47	925.75
23	913.75	48	926.25
24	914.25	49	926.75
25	914.75	50	927.25

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	**AC Power line conducted emission for line and neutral**
Power supply Mode	**Mode 1: EUT power by AC Source (8 Port)** **Mode 2: EUT power by AC Source (4 Port)**
Worst Mode	☒ **Mode 1** ☐ **Mode 2** ☐ **Mode 3** ☐ **Mode 4**

Remark:
1. The worst mode was record in this test report.
2. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

Radiated Emission Measurement Below 1G	
Test Condition	**Radiated Emission Below 1G**
Power supply Mode	**Mode 1: EUT power by DC Power Source (8port)** **Mode 2: EUT power by AC Power Source (8port)** **Mode 3: EUT power by DC Power Source (4port)** **Mode 4: EUT power by AC Power Source (4port)**
Worst Mode	☒ **Mode 1** ☐ **Mode 2** ☐ **Mode 3** ☐ **Mode 4**

Remark:
1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-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(dBμV)	
	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

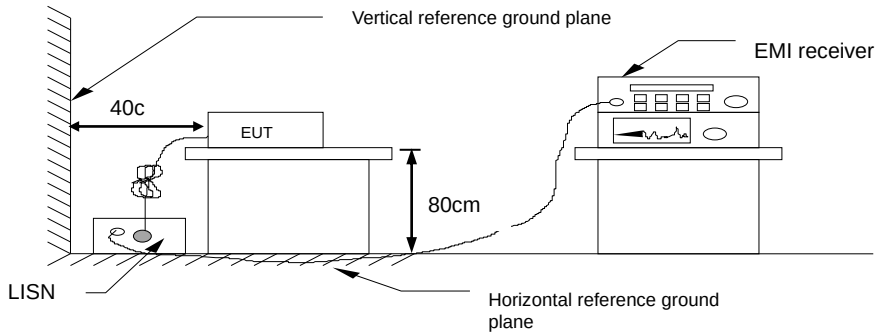
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

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

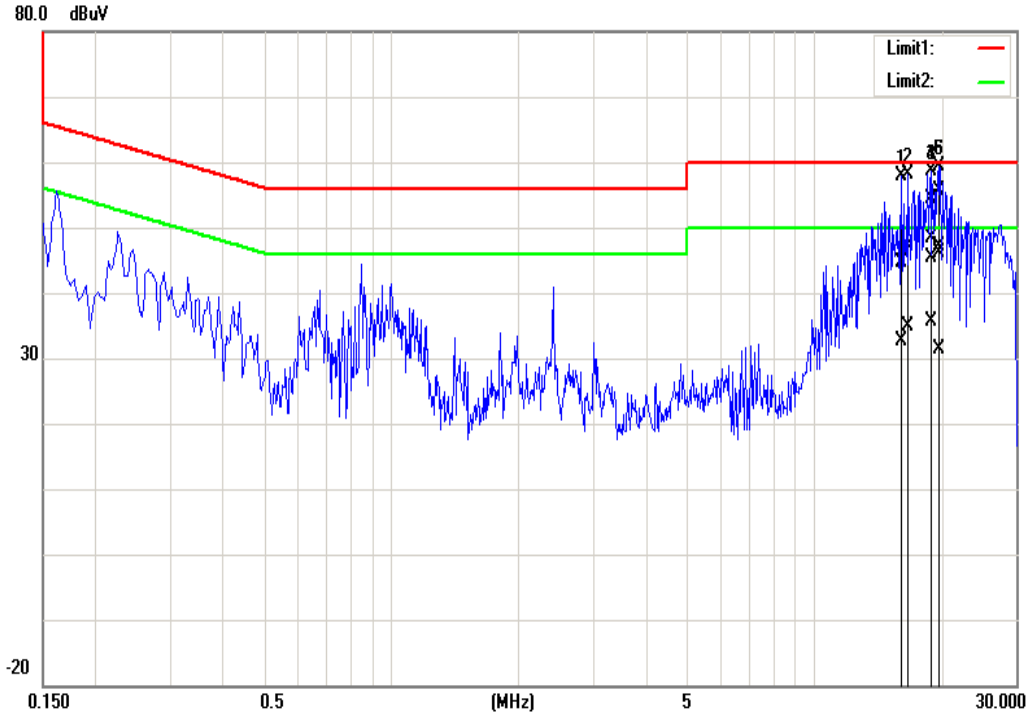


4.1.4 Test Result

PASS

Test Data

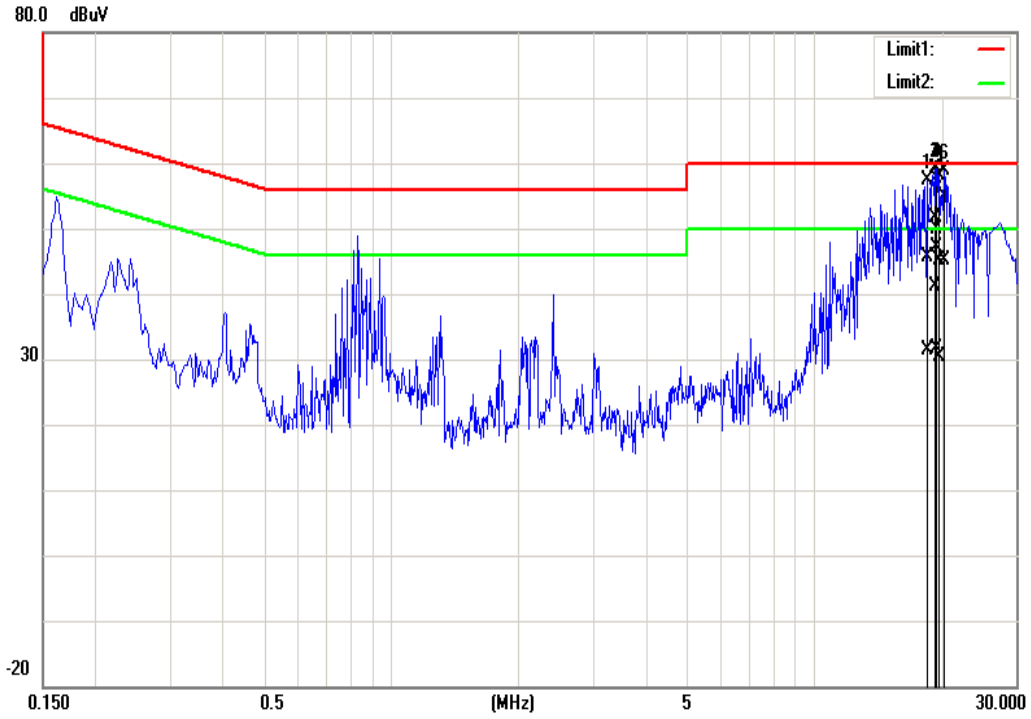
Test Mode:	Mode 1	Temp/Hum	24.3(℃)/ 52%RH
Phase:	Line	Test Date	March 4, 2022
Configuration	8 Port	Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
16.1220	34.29	22.35	10.36	44.65	32.71	60.00	50.00	-15.35	-17.29	Pass
16.6140	36.78	24.62	10.36	47.14	34.98	60.00	50.00	-12.86	-15.02	Pass
18.5900	37.90	25.35	10.36	48.26	35.71	60.00	50.00	-11.74	-14.29	Pass
18.9180	44.01	35.04	10.36	54.37	45.40	60.00	50.00	-5.63	-4.60	Pass
19.5780	45.21	35.70	10.36	55.57	46.06	60.00	50.00	-4.43	-3.94	Pass
19.7420	36.65	20.98	10.36	47.01	31.34	60.00	50.00	-12.99	-18.66	Pass

Note: Correction factor = LISN loss + Cable loss.

Test Mode:	Mode 1	Temp/Hum	24.3(℃)/ 52%RH
Phase:	Neutral	Test Date	March 4, 2022
Configuration	8 Port	Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
18.4580	35.15	20.88	10.39	45.54	31.27	60.00	50.00	-14.46	-18.73	Pass
19.1220	41.26	30.63	10.40	51.66	41.03	60.00	50.00	-8.34	-8.97	Pass
19.2860	47.35	39.54	10.40	57.75	49.94	60.00	50.00	-2.25	-0.06	Pass
19.4500	36.69	21.11	10.40	47.09	31.51	60.00	50.00	-12.91	-18.49	Pass
19.7740	34.75	20.00	10.40	45.15	30.40	60.00	50.00	-14.85	-19.60	Pass
20.2740	44.37	34.65	10.40	54.77	45.05	60.00	50.00	-5.23	-4.95	Pass

Note: Correction factor = LISN loss + Cable loss.

4.2 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.2.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

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

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Remark:
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4mabove the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 30MHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

4. The SA setting following：

(1) Below 1G：RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G：

(2.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

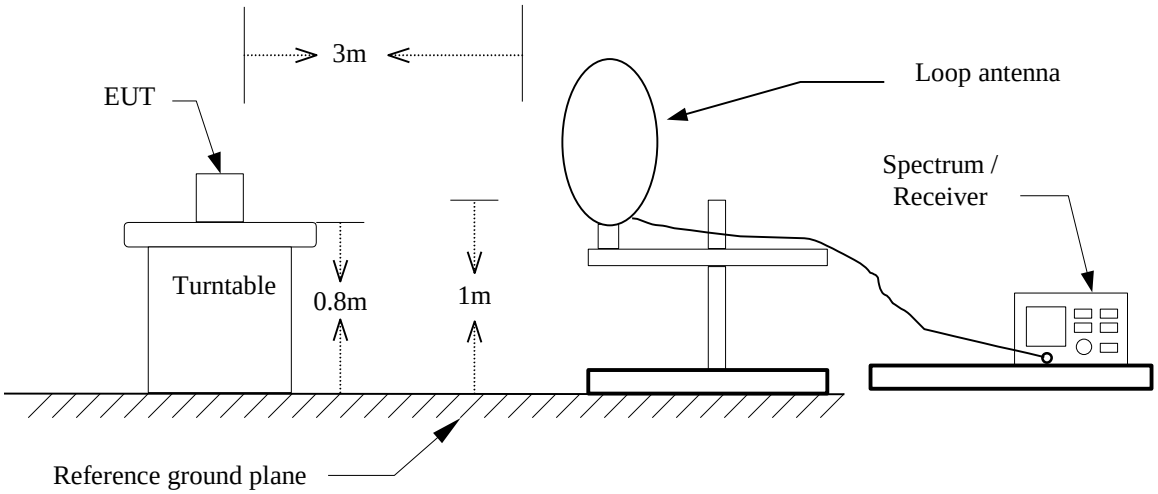
(2.2) For Average measurement：RBW = 1MHz, VBW

- If Duty Cycle ≥ 98%, VBW=10Hz.
- If Duty Cycle <98%, VBW=1/T.

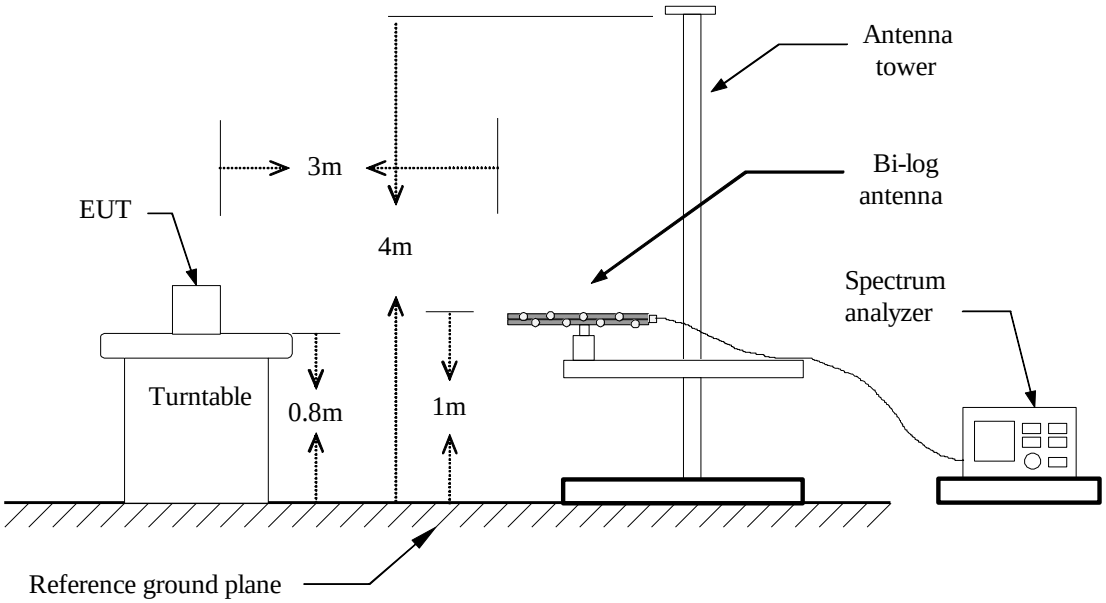
Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

4.2.3 Test Setup

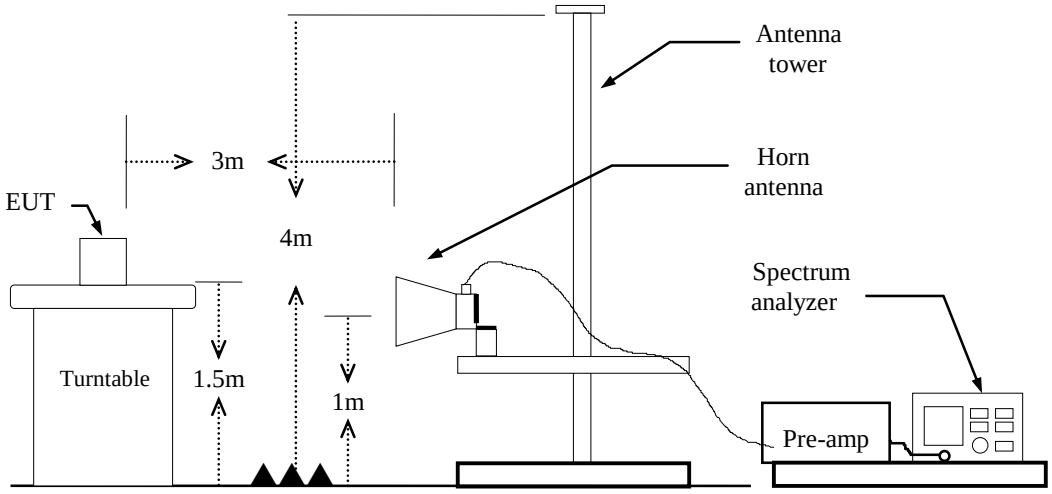
9kHz ~ 30MHz



30MHz ~ 1GHz



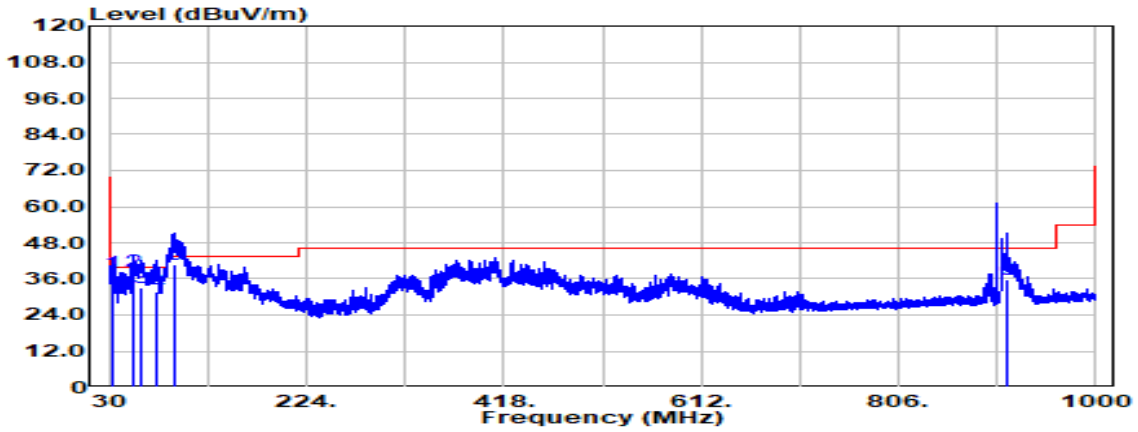
Above 1 GHz



4.2.4 Test Result

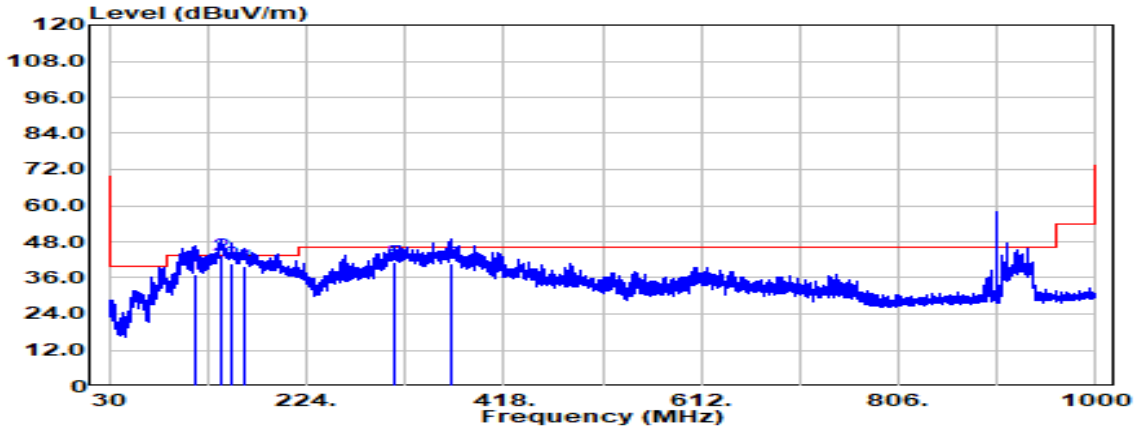
Below 1G Test Data

Test Mode:	Mode 1-CH Low	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



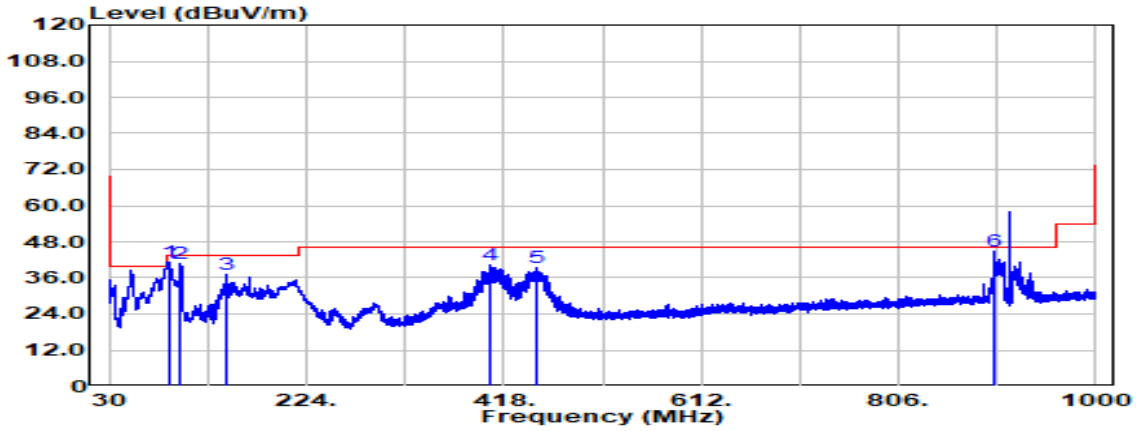
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
32.910	QP	43.18	-5.22	37.96	40.00	-2.04
53.401	QP	54.58	-16.14	38.44	40.00	-1.56
61.768	QP	48.99	-16.14	32.85	40.00	-7.15
75.954	QP	47.22	-15.51	31.71	40.00	-8.29
94.020	QP	55.66	-14.75	40.91	43.50	-2.59
902.750	Peak	58.34	2.88	61.22	-	-
911.973	QP	32.58	3.08	35.66	46.00	-10.34

Test Mode:	Mode 1-CH Low	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



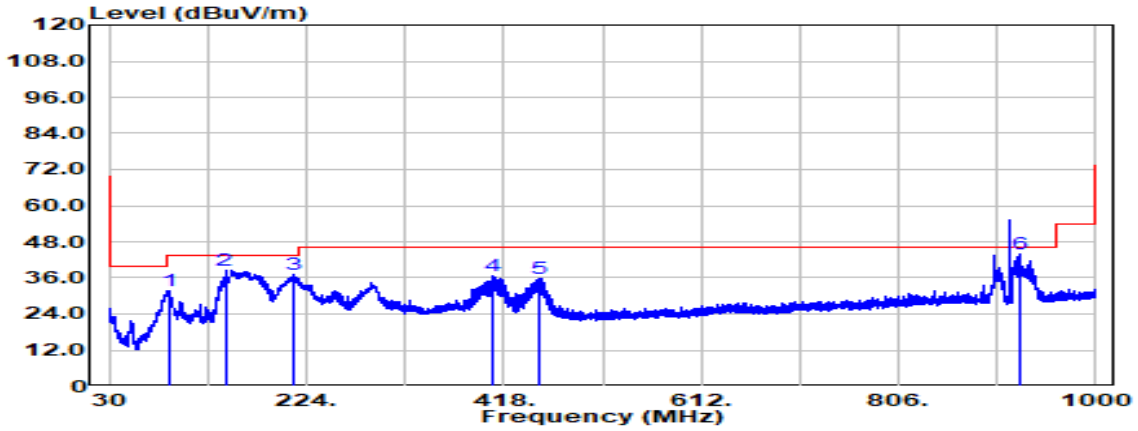
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
114.390	QP	47.15	-9.92	37.23	43.50	-6.27
140.823	QP	53.60	-10.28	43.32	43.50	-0.18
149.916	QP	51.30	-10.64	40.66	43.50	-2.84
162.769	QP	50.62	-10.94	39.68	43.50	-3.82
309.360	QP	50.10	-8.71	41.39	46.00	-4.61
367.318	QP	47.96	-7.23	40.73	46.00	-5.27
902.750	Peak	55.30	2.88	58.19	-	-

Test Mode:	Mode 2-CH Mid	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



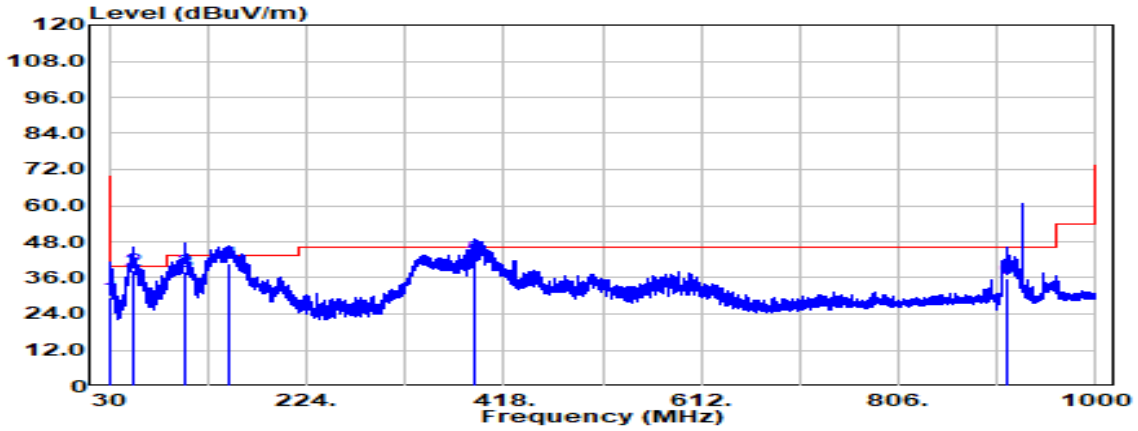
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
88.321	Peak	57.08	-15.93	41.14	43.50	-2.36
100.689	Peak	53.57	-12.73	40.84	43.50	-2.66
144.218	Peak	47.49	-10.46	37.04	43.50	-6.46
403.450	Peak	46.10	-5.97	40.13	46.00	-5.87
450.131	Peak	44.12	-4.78	39.34	46.00	-6.66
900.939	Peak	41.75	2.89	44.64	46.00	-1.36
914.750	Peak	54.74	3.01	57.76	-	-

Test Mode:	Mode 2-CH Mid	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



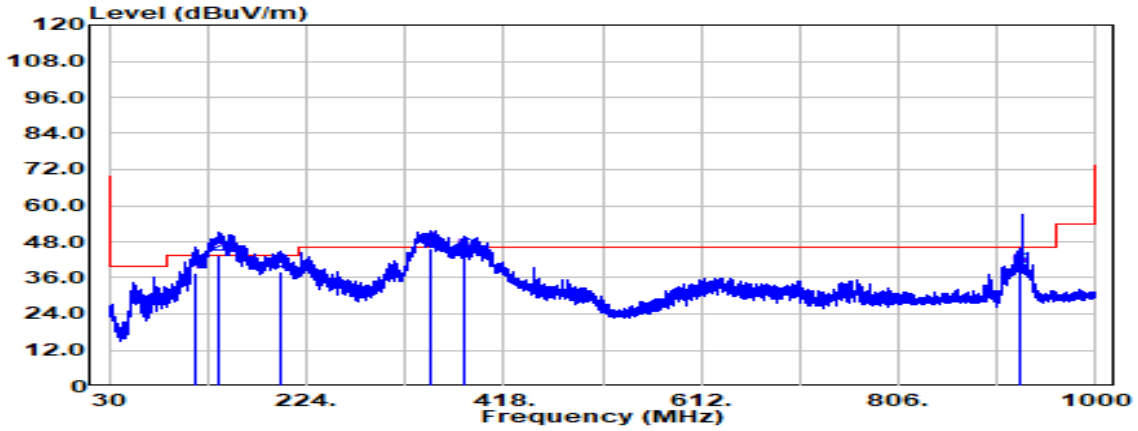
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
89.534	Peak	47.50	-15.76	31.74	43.50	-11.76
144.096	Peak	48.84	-10.43	38.41	43.50	-5.09
212.239	Peak	49.18	-12.22	36.96	43.50	-6.54
406.603	Peak	42.54	-5.87	36.68	46.00	-9.32
451.586	Peak	40.33	-4.70	35.64	46.00	-10.36
914.750	Peak	52.01	3.01	55.03	-	-
925.068	Peak	40.76	3.14	43.90	46.00	-2.10

Test Mode:	Mode 2-CH High	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
32.183	QP	33.90	-4.42	29.48	40.00	-10.52
53.401	QP	54.70	-16.14	38.56	40.00	-1.44
105.296	QP	49.55	-11.42	38.13	43.50	-5.37
147.734	QP	51.33	-10.56	40.77	43.50	-2.73
388.415	QP	49.07	-6.65	42.42	46.00	-3.58
911.973	QP	32.58	3.08	35.66	46.00	-10.34

Test Mode:	Mode 2-CH High	Temp/Hum	23.9(℃)/ 58%RH
Test Item	30MHz-1GHz	Test Date	March 4, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
115.360	QP	47.60	-9.91	37.69	43.50	-5.81
138.276	QP	53.50	-10.09	43.41	43.50	-0.09
198.780	QP	47.96	-10.04	37.92	43.50	-5.58
346.584	QP	53.82	-8.03	45.79	46.00	-0.21
379.564	QP	50.44	-6.99	43.45	46.00	-2.55
925.068	QP	35.69	3.14	38.83	46.00	-7.17

- End of Test Report -