


# TEST REPORT

Reference No..... : WTD21D11128909W  
FCC ID ..... : V5PSP30RF21  
Applicant..... : PAX Technology Limited  
Address..... : Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China  
Manufacturer ..... : PAX Computer Technology(Shenzhen) Co., Ltd.  
Address..... : 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.  
Product..... : PIN PAD  
Model(s)..... : SP30  
Brand Name..... : PAX or   
Standards..... : FCC CFR47 Part 15 Section 15.225  
Date of Receipt sample .... : 2021-11-25  
Date of Test ..... : 2021-11-25 to 2021-12-02  
Date of Issue..... : 2021-12-02  
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

**Waltek Testing Group Co., Ltd.**

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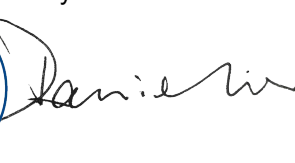
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Compiled by:



Andy Feng / Project Engineer

Approved by:



Daniel Liu / Designated Reviewer

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**3 Revision History**

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD21D11128909W	2021-11-25	2021-11-25 to 2021-12-02	2021-12-02	Original	-	Valid

## 4 General Information

### 4.1 General Description of E.U.T.

Product Name:	PIN PAD
Model No.:	SP30
Model Description:	N/A
NFC:	Support
Hardware Version:	SP30-MAIN-V41B
Software Version:	SxxMonitor_Release_20210820(v3.84) (v3.84)
Note:	N/A

### 4.2 Details of E.U.T.

Operation Frequency:	NFC:13.56MHz
Ratings:	Adapter 1# Input: 100-240~ 50/60Hz, 0.25A Output: 5.0V, 1.0A Model: HKA00505010-2P Adapter 2# Input: 100-240~ 50/60Hz, 0.40A Output: 5.0V, 1.0A, 5.0W Model: GLH50D1000HF

### 4.3 Channel List

NFC Test Mode		
Channel No.	Channel No.	Frequency (MHz)
0	0	13.56MHz

### 4.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests; the worst data were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	N/A	13.56MHz	N/A

### 4.5 Test Facility

The test facility has a test site registered with the following organizations:

**ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.**

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

**FCC Designation No.: CN1201. Test Firm Registration No.: 523476.**

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

## 5 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
Radiated Emission	15.205(a) 15.209 15.225	PASS
Frequency Tolerance	15.225	PASS
20dB Bandwidth	15.215(c)	PASS
Antenna Requirement	15.203	PASS
Note: C=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable.		

## 6 Equipment Used during Test

### 6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2021-07-26	2022-07-25
2.	LISN	R&S	ENV216	101215	2021-07-26	2022-07-25
3.	Cable	Top	TYPE16(3.5M)	-	2021-07-26	2022-07-25
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	2021-07-26	2022-07-25
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2021-07-26	2022-07-25
3.	Limitter	CYBERTEK	EM5010	261115-001-0024	2021-07-26	2022-07-25
4.	Cable	Laplace	RF300	-	2021-07-26	2022-07-25
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2021-04-26	2022-04-25
2	Amplifier	Agilent	8447D	2944A10178	2021-07-26	2022-07-25
3	Active Loop Antenna	ANRITSU	MH648A	M43381	2021-04-26	2022-04-25
4	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2021-08-23	2022-08-22
5	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2021-04-26	2022-04-25
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2021-04-30	2020-04-28
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2021-07-26	2022-07-25
8	Coaxial Cable (above 1GHz)	Top	1GHz-18GHz	N/A	2021-07-26	2022-07-25
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2021-04-26	2022-04-25
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2021-10-31	2022-10-30
3	Amplifier	ANRITSU	MH648A	M43381	2021-04-26	2022-04-25
4	Cable	HUBER+SUHNER	CBL2	525178	2021-04-26	2022-04-25

RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2021-04-26	2022-04-25
2.	Spectrum Analyzer (9k~6GHz)	R&S	FSL6	100959	2021-04-26	2022-04-25
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2021-04-26	2022-04-25

## 6.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	$\pm 1.0$ dB
RF Power Density	$\pm 2.2$ dB
Radiated Spurious Emissions test	$\pm 5.03$ dB (Bilog antenna 30M~1000MHz)
	$\pm 5.47$ dB (Horn antenna 1000M~25000MHz)
Confidence interval: 95%. Confidence factor:k=2	

## 6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.



## 7 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.10:2013
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56 *	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

### 7.1 E.U.T. Operation

Operating Environment :

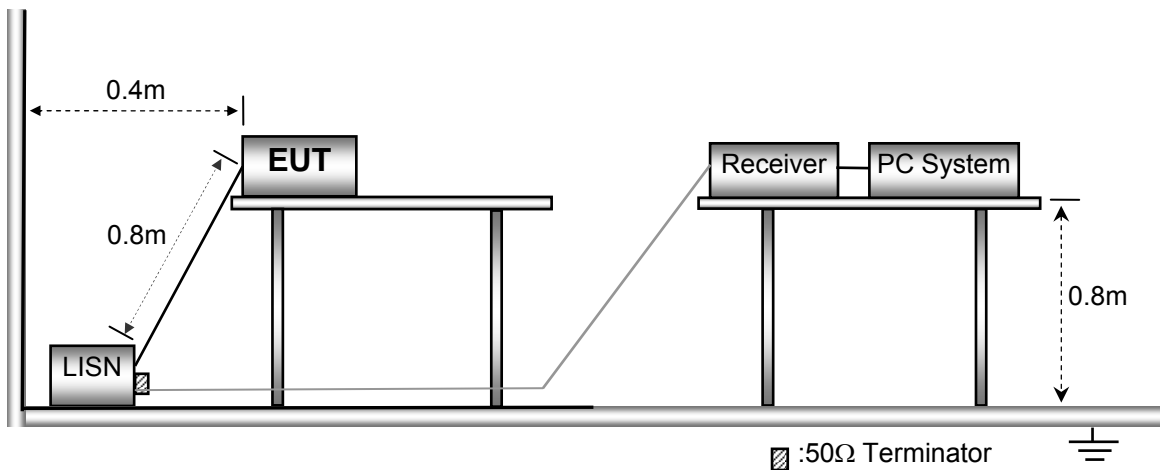
Temperature:	25.5 °C
Humidity:	51 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

### 7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013



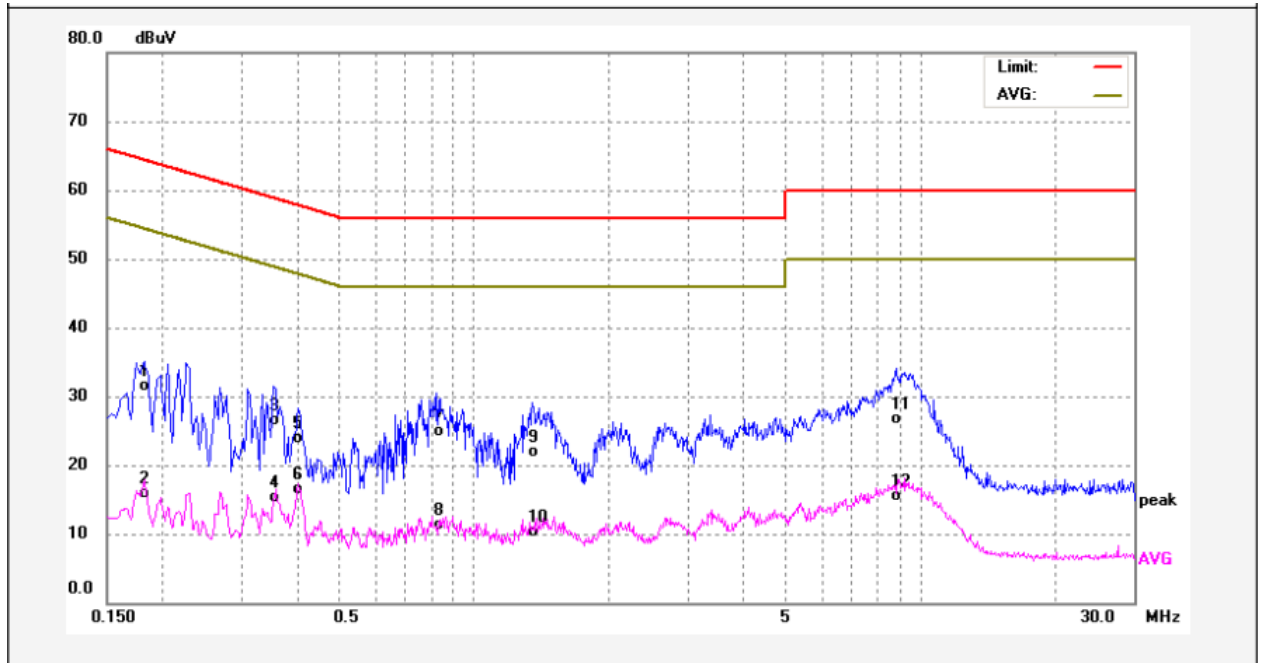
### 7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 7.4 Test Result

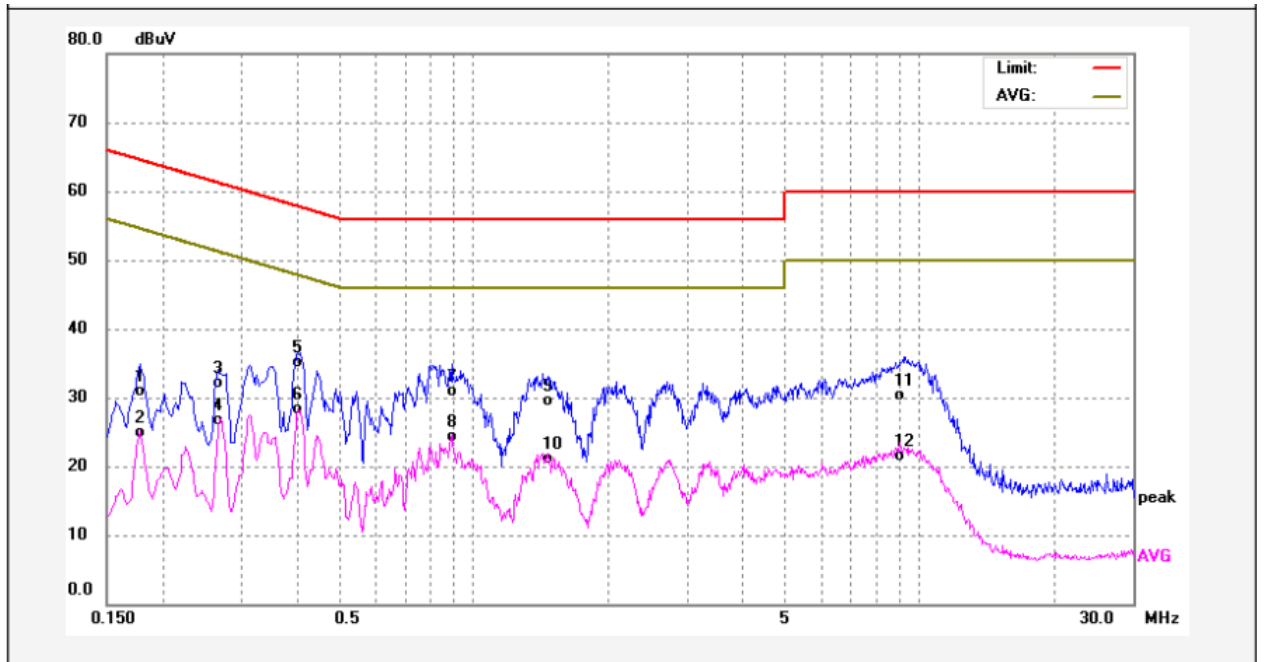
Adapter 1:

Live Line :



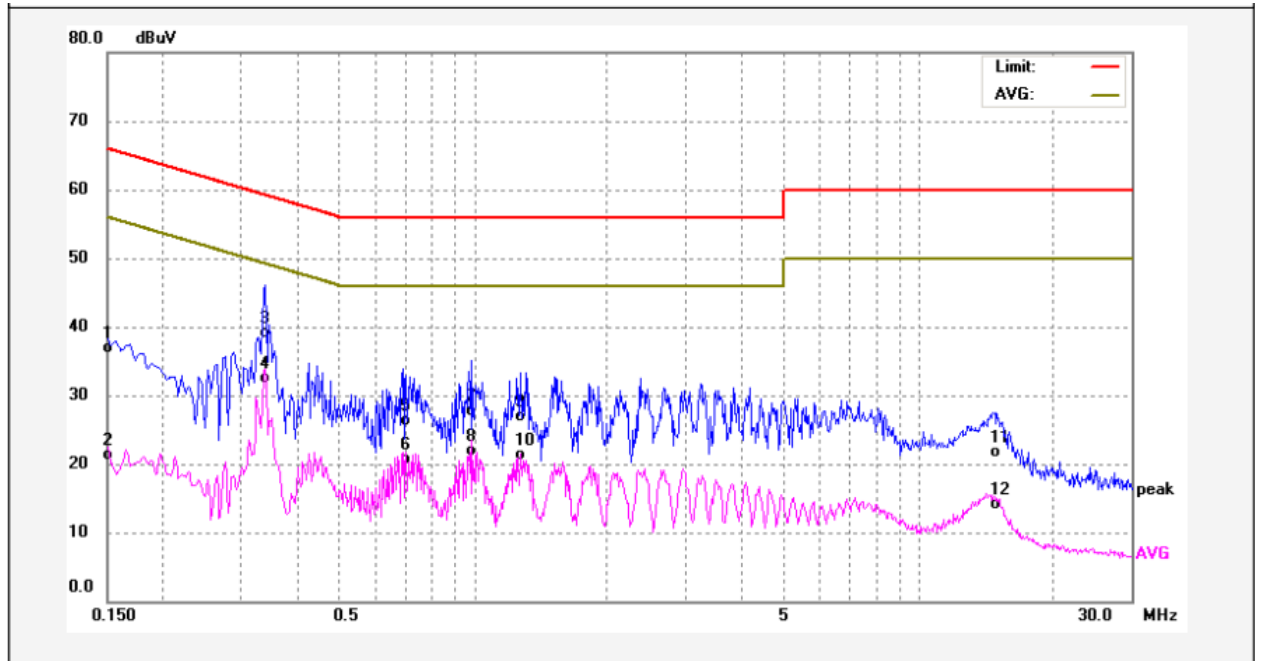
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1819	19.58	11.98	31.56	64.39	-32.83	QP	
2	0.1819	3.99	11.98	15.97	54.39	-38.42	AVG	
3	0.3580	14.73	11.74	26.47	58.77	-32.30	QP	
4	0.3580	3.65	11.74	15.39	48.77	-33.38	AVG	
5	0.4020	12.11	11.74	23.85	57.81	-33.96	QP	
6	0.4020	4.85	11.74	16.59	47.81	-31.22	AVG	
7	0.8260	12.92	11.90	24.82	56.00	-31.18	QP	
8	0.8260	-0.66	11.90	11.24	46.00	-34.76	AVG	
9	1.3460	9.97	11.90	21.87	56.00	-34.13	QP	
10	1.3460	-1.65	11.90	10.25	46.00	-35.75	AVG	
11	8.7940	14.68	12.02	26.70	60.00	-33.30	QP	
12	8.7940	3.44	12.02	15.46	50.00	-34.54	AVG	

Neutral Line :



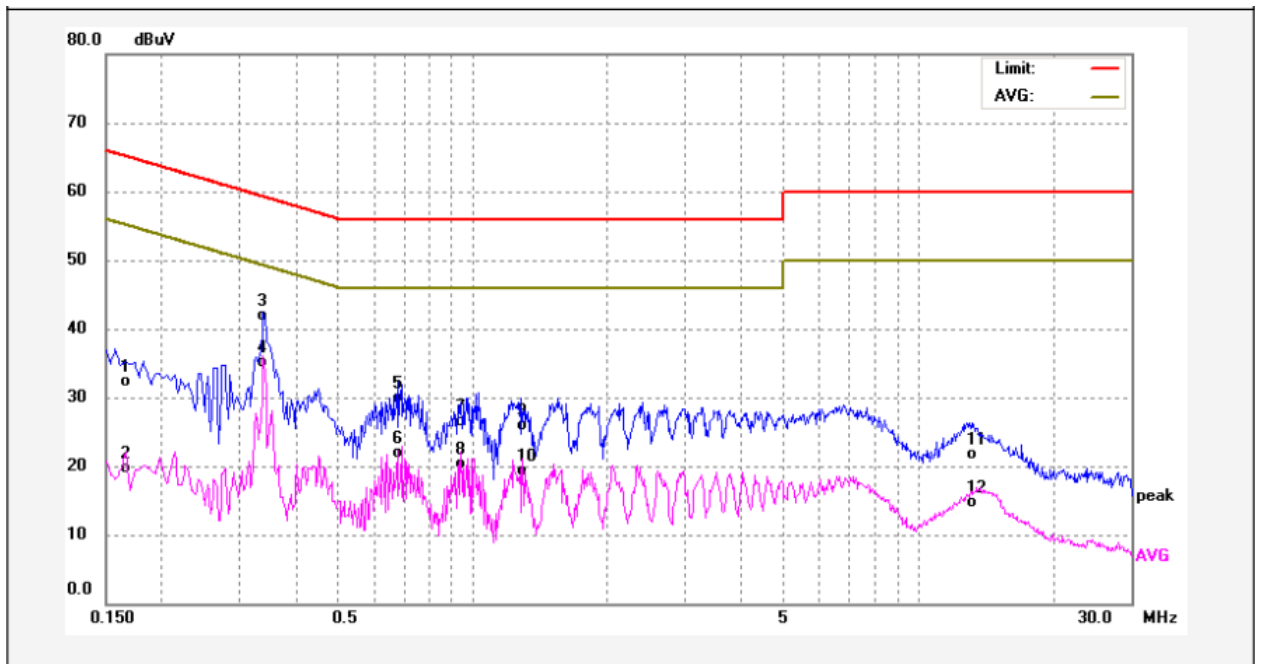
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1780	19.48	11.43	30.91	64.57	-33.66	QP	
2	0.1780	13.43	11.43	24.86	54.57	-29.71	AVG	
3	0.2700	20.77	11.26	32.03	61.12	-29.09	QP	
4	0.2700	15.52	11.26	26.78	51.12	-24.34	AVG	
5	0.4020	23.88	11.19	35.07	57.81	-22.74	QP	
6	0.4020	17.14	11.19	28.33	47.81	-19.48	AVG	
7	0.8900	19.57	11.30	30.87	56.00	-25.13	QP	
8	0.8900	12.98	11.30	24.28	46.00	-21.72	AVG	
9	1.4660	18.16	11.30	29.46	56.00	-26.54	QP	
10	1.4660	9.86	11.30	21.16	46.00	-24.84	AVG	
11	8.9980	18.84	11.50	30.34	60.00	-29.66	QP	
12	8.9980	9.96	11.50	21.46	50.00	-28.54	AVG	

Adapter 2:  
Live Line :



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	24.81	12.04	36.85	65.99	-29.14	QP	
2	0.1500	9.18	12.04	21.22	55.99	-34.77	AVG	
3	0.3420	27.38	11.74	39.12	59.15	-20.03	QP	
4	0.3420	20.78	11.74	32.52	49.15	-16.63	AVG	
5	0.7060	14.39	11.90	26.29	56.00	-29.71	QP	
6	0.7060	8.76	11.90	20.66	46.00	-25.34	AVG	
7	0.9940	15.89	11.90	27.79	56.00	-28.21	QP	
8	0.9940	10.00	11.90	21.90	46.00	-24.10	AVG	
9	1.2820	14.93	11.90	26.83	56.00	-29.17	QP	
10	1.2820	9.32	11.90	21.22	46.00	-24.78	AVG	
11	14.7700	9.84	11.81	21.65	60.00	-38.35	QP	
12	14.7700	2.24	11.81	14.05	50.00	-35.95	AVG	

Neutral Line :



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	20.87	11.47	32.34	65.15	-32.81	QP	
2	0.1660	8.24	11.47	19.71	55.15	-35.44	AVG	
3	0.3379	30.59	11.22	41.81	59.25	-17.44	QP	
4	0.3379	23.89	11.22	35.11	49.25	-14.14	AVG	
5	0.6780	18.57	11.28	29.85	56.00	-26.15	QP	
6	0.6780	10.56	11.28	21.84	46.00	-24.16	AVG	
7	0.9420	15.30	11.30	26.60	56.00	-29.40	QP	
8	0.9420	9.07	11.30	20.37	46.00	-25.63	AVG	
9	1.2940	14.63	11.30	25.93	56.00	-30.07	QP	
10	1.2940	8.01	11.30	19.31	46.00	-26.69	AVG	
11	13.1379	10.14	11.54	21.68	60.00	-38.32	QP	
12	13.1379	3.23	11.54	14.77	50.00	-35.23	AVG	

## 8 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209

Test Method: ANSI C63.10

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

### 8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

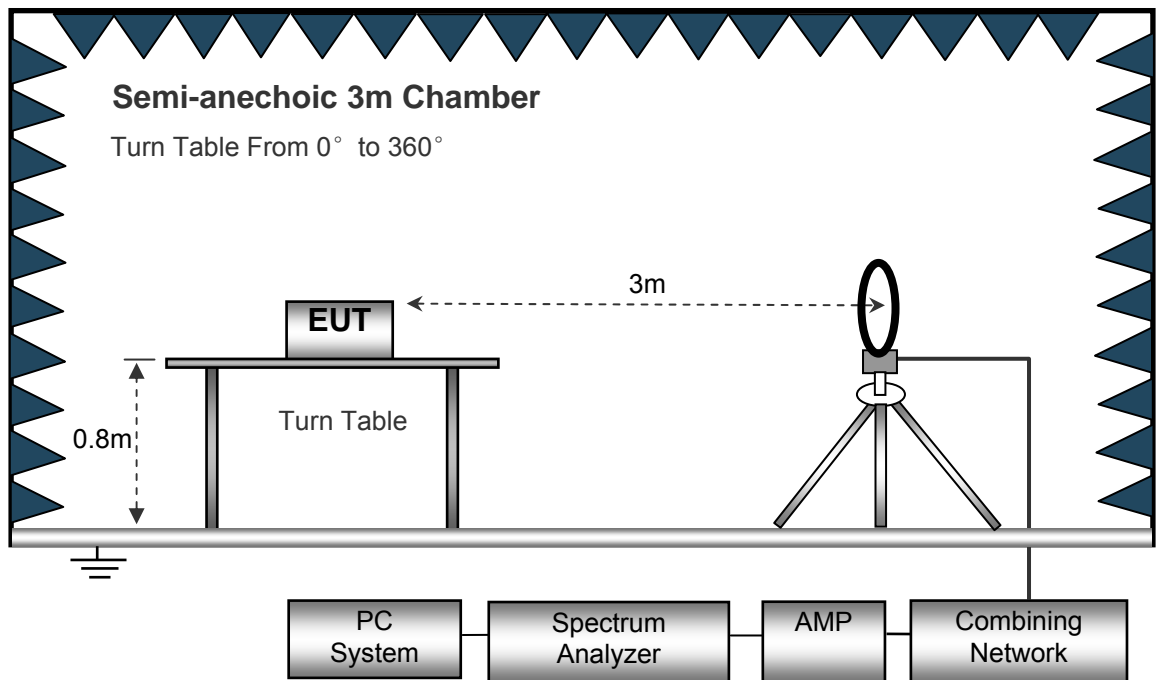
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

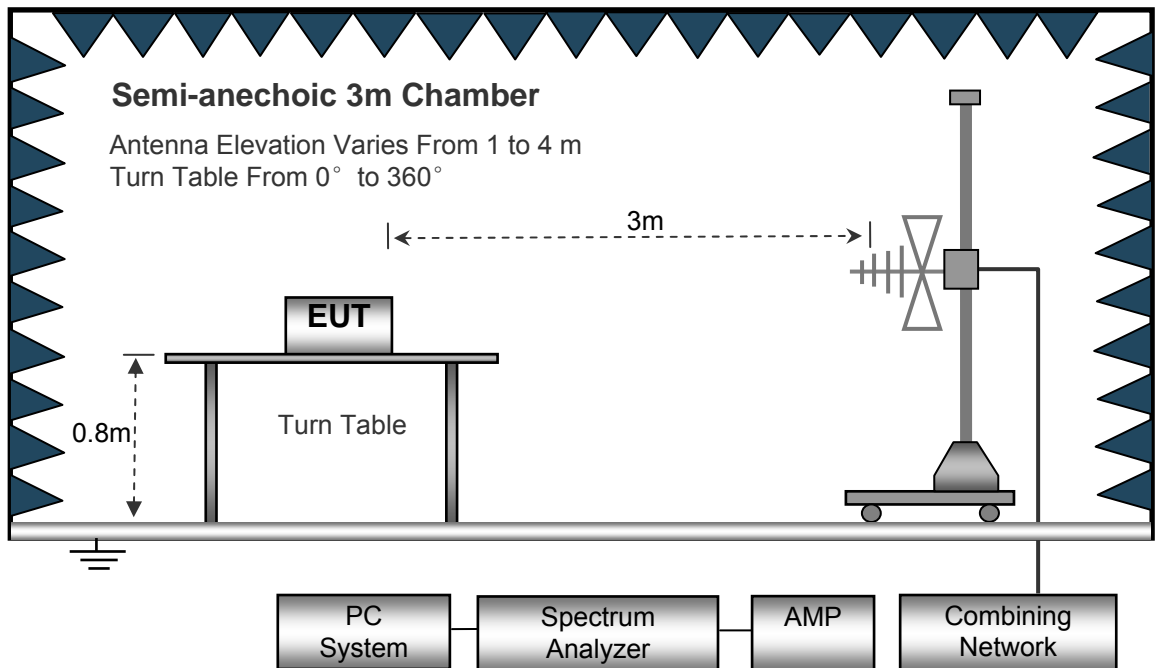
## 8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



### 8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
 IF Bandwidth..... 10kHz  
 Video Bandwidth..... 10kHz  
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto  
 Detector ..... PK  
 Resolution Bandwidth..... 100kHz  
 Video Bandwidth..... 300kHz

### 8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz
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 moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

### 8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$



## 8.6 Summary of Test Results

Test Frequency: 9 kHz ~ 30MHz Note: Correct factor = Cable loss + Antenna factor

Frequency (MHz)	Receiver Reading (PK) (dB $\mu$ V) @3m	Turn table Angle Degree	RX Antenna		Corrected Factor (dB/m)	Corrected Amplitude (PK) (dB $\mu$ V/m) @3m	FCC Part 15.225	
			Height (m)	Polar (H/V)			Limit (dB $\mu$ V/ m)@3m	Margin (dB)
13.56	63.79	123	1.9	H	19.68	83.47	124	-40.53
13.56	54.50	316	1.5	V	19.68	74.18	124	-49.82

Frequency (MHz)	Receiver Reading	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
	dB $\mu$ V @3m	QP	dB/m	dB	dB $\mu$ V/m @30m	dB $\mu$ V/m @30m	dB
4.259	32.77	QP	20.20	40.00	12.97	29.54	-16.57
11.437	35.58	QP	20.10	40.00	15.48	29.54	-14.06

Frequency Range (MHz)	Frequency (MHz)	Maximum Reading	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
		dB $\mu$ V @3m	QP	dB/m	dB	dB $\mu$ V/m @30m	dB $\mu$ V/m @30m	dB
13.110~ 13.41	13.401	40.21	QP	21.55	40	18.66	40.51	-21.85
13.410~ 13.553	13.546	48.77	QP	21.55	40	27.22	50.47	-23.25
13.567~ 13.71	13.587	48.02	QP	21.55	40	26.47	50.47	-24
13.710~ 14.01	13.719	37.20	QP	21.55	40	15.65	40.51	-24.86

**Test Frequency: 30MHz ~ 1GHz**

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.225/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V) @3m	(QP)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m) @3m	(dB $\mu$ V/m) @3m	(dB)
32.59	31.55	QP	150	1.2	H	-14.30	17.25	40.00	-22.75
32.59	32.25	QP	206	2.0	V	-14.30	17.95	40.00	-22.05
223.45	36.88	QP	51	1.8	H	-13.58	23.3	46.00	-22.70
223.45	40.99	QP	117	1.6	V	-13.58	27.41	46.00	-18.59
517.98	39.14	QP	192	1.7	H	-5.63	33.51	46.00	-12.49
517.98	40.89	QP	173	1.6	V	-5.63	35.26	46.00	-10.74

## 9 Frequency Tolerance

Test Requirement: FCC Part15.225

Test Method: ANSI C63.10: 2013

Limit The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 9.1 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Centre Frequency = fundamental frequency, RBW=30 Hz, VBW= 100 Hz, Span =3 kHz.
4. Set SPA Max hold. Mark peak.

### 9.2 Test Result

Power Supply	Temperature (°C)	Measured Frequency (MHz)	Frequency Error	Part 15.225 Limit
DC 5V	-20	13.5600	-0.0001%	±0.01%
	-10	13.5602	0.0015%	±0.01%
	0	13.5607	0.0050%	±0.01%
	+10	13.5603	0.0021%	±0.01%
	+20	13.5601	0.0007%	±0.01%
	+30	13.5592	-0.0057%	±0.01%
	+40	13.5596	-0.0032%	±0.01%
	+50	13.5601	0.0010%	±0.01%
DC 4.25 V	-20	13.5603	0.0021%	±0.01%
	-10	13.5610	0.0071%	±0.01%
	0	13.5605	0.0037%	±0.01%

	+10	13.5611	0.0084%	±0.01%
	+20	13.5604	0.0027%	±0.01%
	+30	13.5609	0.0064%	±0.01%
	+40	13.5612	0.0085%	±0.01%
	+50	13.5602	0.0014%	±0.01%
DC5.75V	-20	13.5606	0.0042%	±0.01%
	-10	13.5609	0.0066%	±0.01%
	0	13.5598	-0.0016%	±0.01%
	+10	13.5603	0.0022%	±0.01%
	+20	13.5604	0.0031%	±0.01%
	+30	13.5613	0.0094%	±0.01%
	+40	13.5605	0.0040%	±0.01%
	+50	13.5599	-0.0006%	±0.01%

### 10 20dB Bandwidth

Test Requirement: FCC Part15.215(C)  
 Test Method: ANSI C63.10: 2013

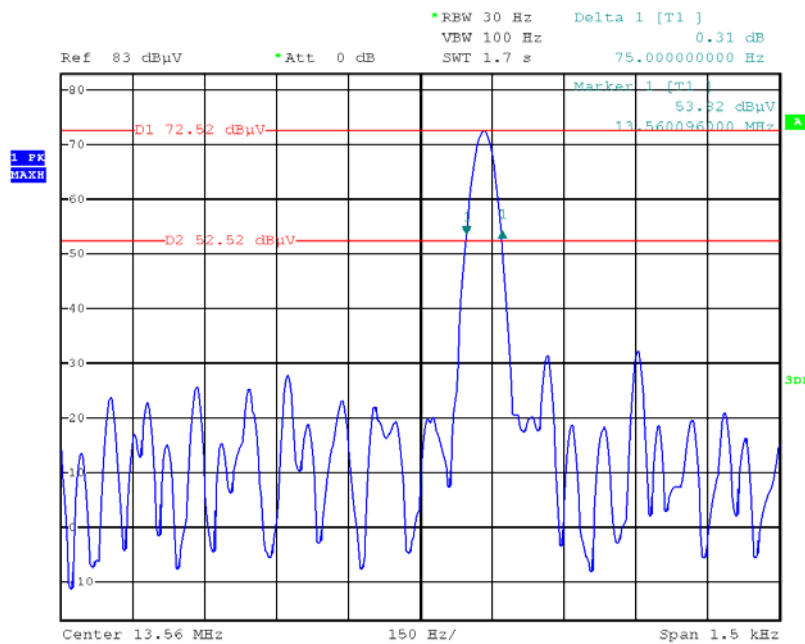
#### 10.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 30 Hz and the video bandwidth of 100 Hz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

#### 10.2 Test Result

Frequency(MHz)	Bandwidth Emission(Hz)
13.56	75.00

Test Plot



Date: 29.NOV.2021 09:19:48

## **11 Antenna Requirement**

According to the FCC Part 15 Paragraph 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. This product has an Loop antenna, fulfil the requirement of this section.

## **12 Photographs- Test Setup Photos**

Note: Please refer to Appendix-SP30-Photos.

=====**End of Report**=====