

FCC RF Test Report

(NFC)

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong

Equipment Under Test (EUT)

Product Name: Smart Kiosk

Model No.: SK300

Trade Mark: PAX

FCC ID: V5PSK300

Applicable standards: FCC CFR Title 47 Part 15C (§15.225)

Date of sample receipt: 24 Jan., 2022

Date of Test: 25 Jan., to 03 Mar., 2022

Date of report issue: 04 Mar., 2022

Test Result: PASS

Tested by: Mike Ou **Date:** 04 Mar., 2022
Test Engineer

Reviewed by: Wenwen Zhang **Date:** 04 Mar., 2022
Project Engineer

Approved by: [Signature] **Date:** 04 Mar., 2022
Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	04 Mar., 2022	Original

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4 General Information

4.1 Client Information

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

4.2 General Description of E.U.T.

Product Name:	Smart Kiosk
Model No.:	SK300
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	Induction Coil Antenna
Adapter:	Model: G065A1-240002700 Input: AC100-240V, 50/60Hz,1.5A Output: DC 24.0V, 2.7A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and Environment

Test mode:			
Transmitting mode:	Keep the EUT in transmitting mode with modulation		
The EUT was placed on three different polar directions tested: i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	59.58	65.20	58.71
According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo).			
Operating Environment:			
Temperature:	15°C ~ 35°C		
Humidity:	20 % ~ 75 % RH		
Atmospheric Pressure:	1010 mbar		

4.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
SHENZHEN HONOR ELECTRONIC CO., LDT.	AC ADAPTER	ADS-65H1-19A-2	200310110000128	N/A

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.6 Additions to, Deviations, or Exclusions From the Method

No

4.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
 Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4.9 Test Instruments list

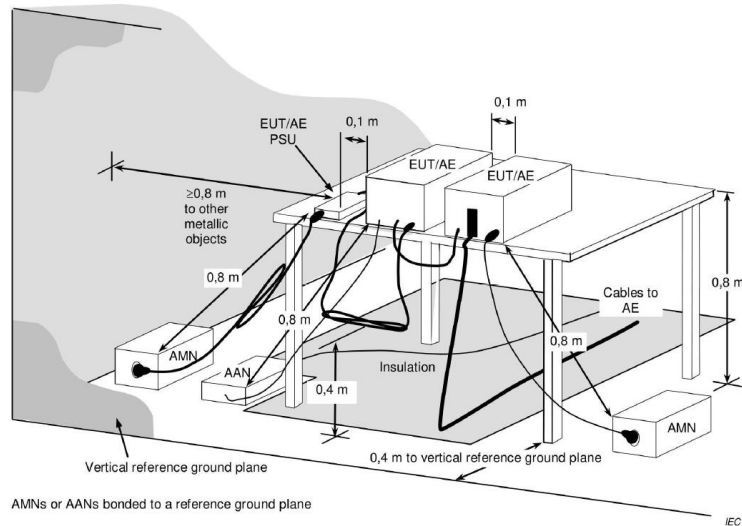
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
				02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ENV432	WXJ005-2	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
Test Software	AUDIX	E3	Version: 6.110919b		

5 Measurement setup and procedure

5.1 Test setup

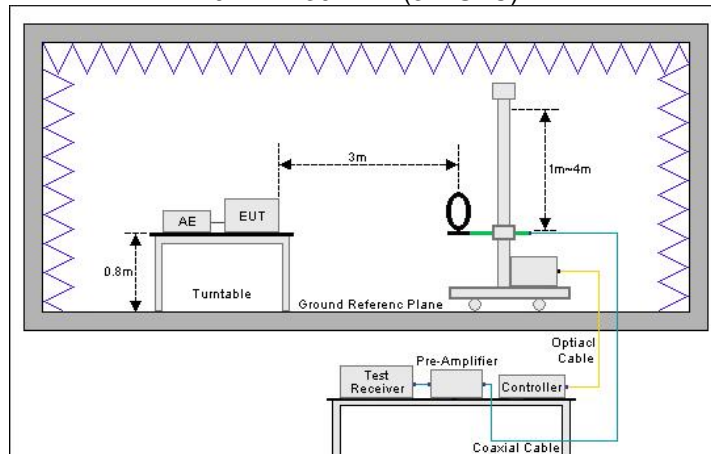
1) Conducted emission measurement:



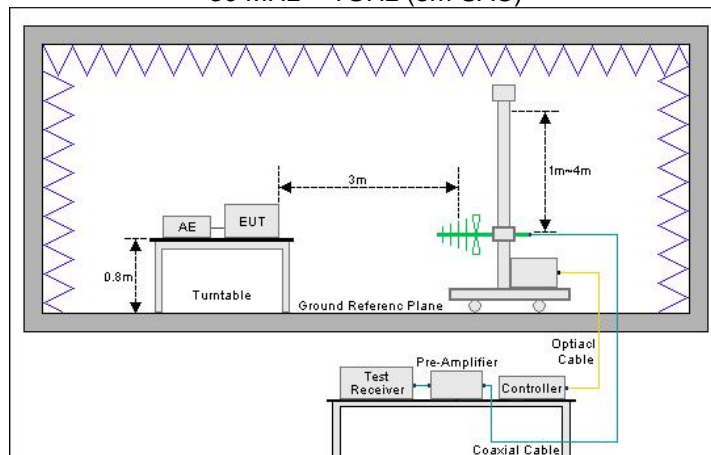
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

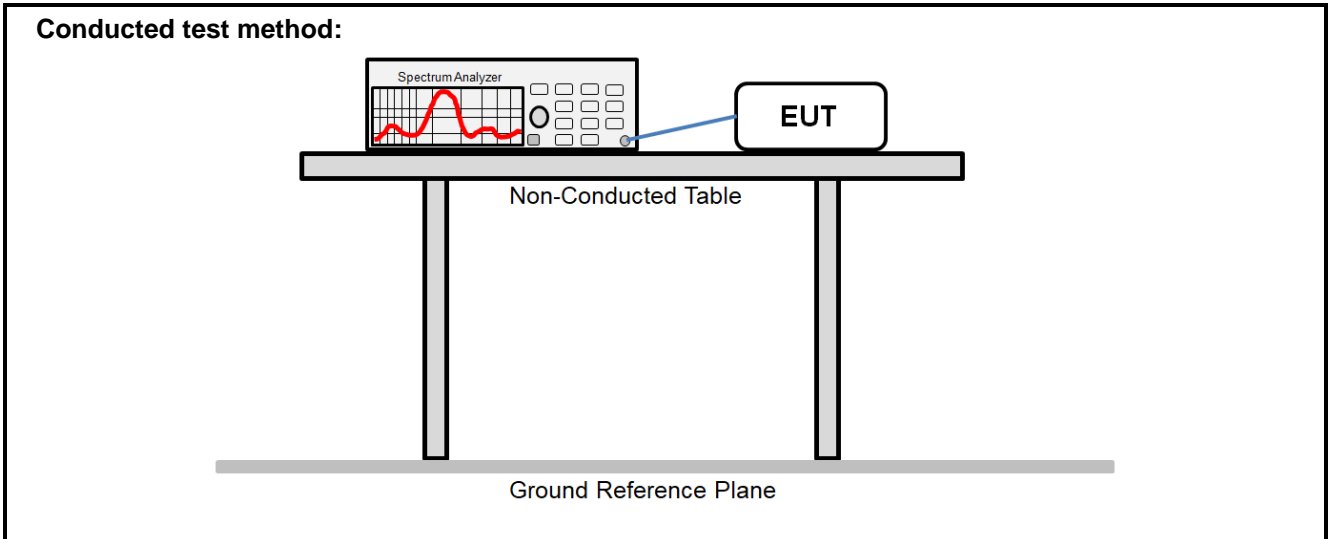
2) Radiated emission measurement:

9kHz ~ 30 MHz (3m SAC)



30 MHz ~ 1GHz (3m SAC)





5.2 Test procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	<ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> 1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. The test data is saved by the screenshot function of the spectrum analyzer.

6 Test Results

6.1 Summary

6.1.1 Clause and data summary

Test Items	FCC Part Section(s)	Test Data	Result
Antenna Requirement	15.203	See Section 6.2	Pass
Conducted Emission	15.207	See Section 6.3	Pass
20dB Bandwidth	15.215(c)	See Section 6.4	Pass
Field strength emissions	15.209 15.225 (a)(b)(c)(d)	See Section 6.5	Pass
Frequency tolerance	15.225 (e)	See Section 6.6	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard.			
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013		

6.1.2 Test Limit

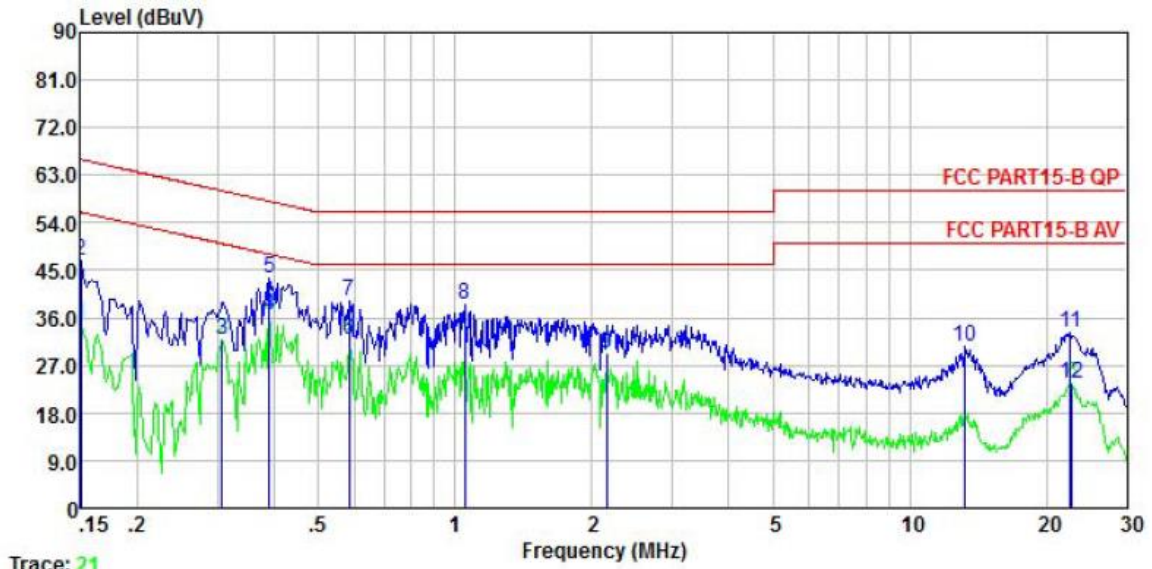
Items	Limit																								
Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50										
Frequency range (MHz)	Limit (dBuV)																								
	Quasi-peak	Average																							
0.15-0.5	66 to 56*	56 to 46*																							
0.5-5	56	46																							
5-30	60	50																							
20dB Bandwidth	N/A																								
Field strength emissions	<p>(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.</p> <p>(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.</p> <p>(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.</p> <p>(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Field strength (microvolts/meter)</th> <th>Measurement distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009 – 0.490</td> <td>2400/F(kHz)</td> <td>300</td> </tr> <tr> <td>0.490 – 1.705</td> <td>24000/F(kHz)</td> <td>30</td> </tr> <tr> <td>1.705 – 30.0</td> <td>30</td> <td>30</td> </tr> <tr> <td>30.0 – 88.0</td> <td>100**</td> <td>3</td> </tr> <tr> <td>88.0 – 216.0</td> <td>150**</td> <td>3</td> </tr> <tr> <td>216.0 – 960.0</td> <td>200**</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p>	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009 – 0.490	2400/F(kHz)	300	0.490 – 1.705	24000/F(kHz)	30	1.705 – 30.0	30	30	30.0 – 88.0	100**	3	88.0 – 216.0	150**	3	216.0 – 960.0	200**	3	Above 960	500	3
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																							
0.009 – 0.490	2400/F(kHz)	300																							
0.490 – 1.705	24000/F(kHz)	30																							
1.705 – 30.0	30	30																							
30.0 – 88.0	100**	3																							
88.0 – 216.0	150**	3																							
216.0 – 960.0	200**	3																							
Above 960	500	3																							
Frequency tolerance	<p>The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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.</p>																								

6.2 Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
E.U.T Antenna:	The EUT make use of an induction coil antenna.

6.3 Conducted Emission

Product name:	Smart Kiosk	Product model:	SK300
Test by:	Mike	Test mode:	NFC Transmitting mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



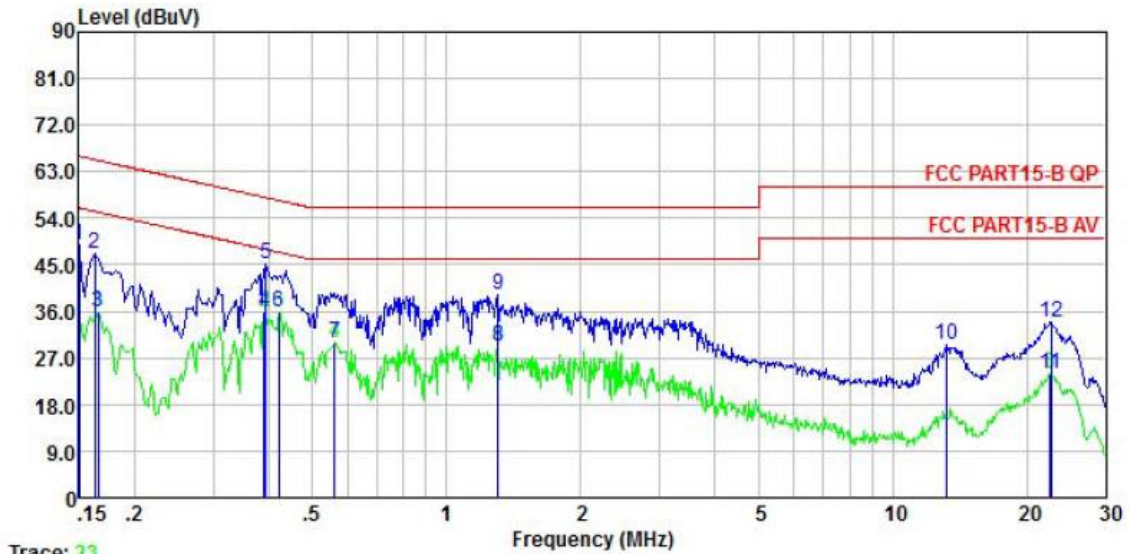
Trace: 21

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	34.84	0.04	0.01	34.89	56.00	-21.11	Average
2	0.150	46.69	0.04	0.01	46.74	66.00	-19.26	QP
3	0.307	31.81	0.04	0.03	31.88	50.06	-18.18	Average
4	0.389	36.54	0.04	0.04	36.62	48.08	-11.46	Average
5	0.389	43.52	0.04	0.04	43.60	58.08	-14.48	QP
6	0.585	31.84	0.04	0.02	31.90	46.00	-14.10	Average
7	0.585	38.99	0.04	0.02	39.05	56.00	-16.95	QP
8	1.049	38.40	0.05	0.06	38.51	56.00	-17.49	QP
9	2.155	28.92	0.07	0.18	29.17	46.00	-16.83	Average
10	13.267	30.04	0.25	0.11	30.40	60.00	-29.60	QP
11	22.535	32.60	0.34	0.16	33.10	60.00	-26.90	QP
12	22.775	23.11	0.35	0.16	23.62	50.00	-26.38	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Smart Kiosk	Product model:	SK300
Test by:	Mike	Test mode:	NFC Transmitting mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 23

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	48.74	0.05	0.01	48.80	66.00	-17.20	QP
2	0.162	47.06	0.05	0.01	47.12	65.34	-18.22	QP
3	0.166	35.89	0.05	0.01	35.95	55.16	-19.21	Average
4	0.389	35.76	0.04	0.04	35.84	48.08	-12.24	Average
5	0.393	44.92	0.04	0.04	45.00	57.99	-12.99	QP
6	0.421	35.70	0.04	0.04	35.78	47.42	-11.64	Average
7	0.561	29.79	0.04	0.02	29.85	46.00	-16.15	Average
8	1.303	29.21	0.05	0.11	29.37	46.00	-16.63	Average
9	1.303	39.11	0.05	0.11	39.27	56.00	-16.73	QP
10	13.197	29.17	0.23	0.11	29.51	60.00	-30.49	QP
11	22.535	23.28	0.33	0.16	23.77	50.00	-26.23	Average
12	22.655	33.38	0.33	0.16	33.87	60.00	-26.13	QP

Notes:

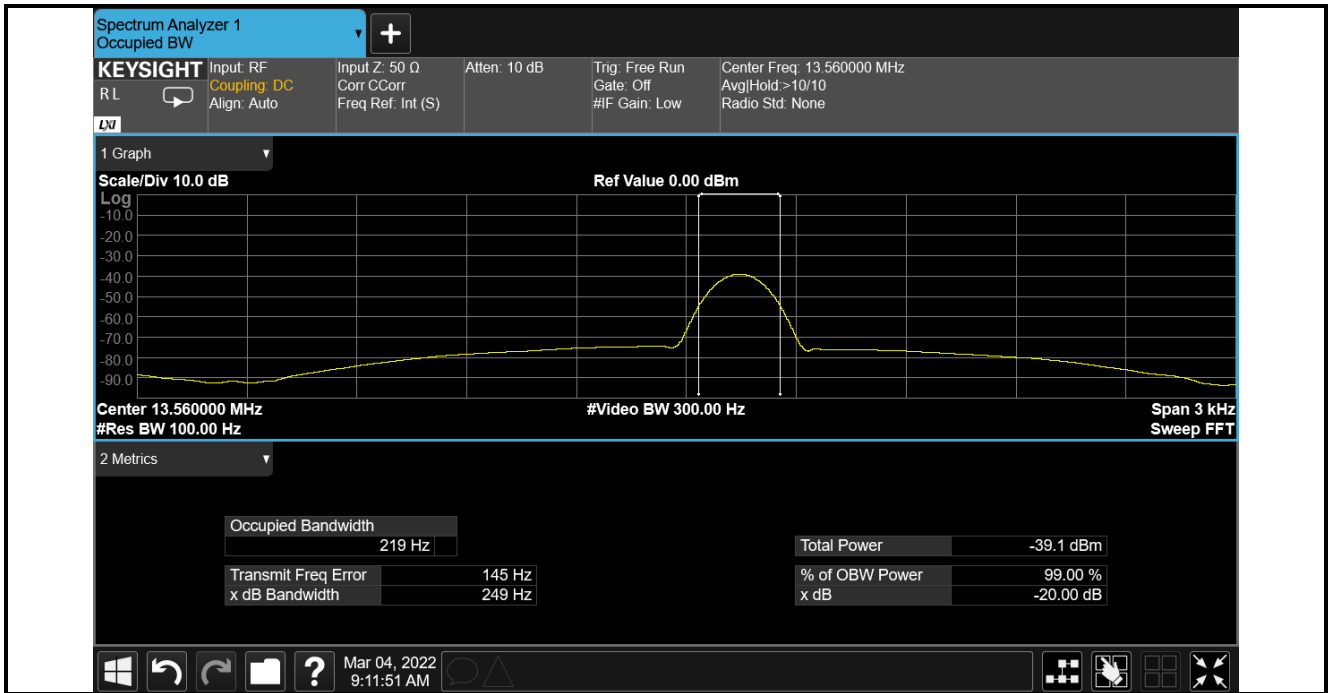
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

6.4 20dB Bandwidth

20dB bandwidth (kHz)	Limit (kHz)	Results
0.249	11.2	Passed

Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.

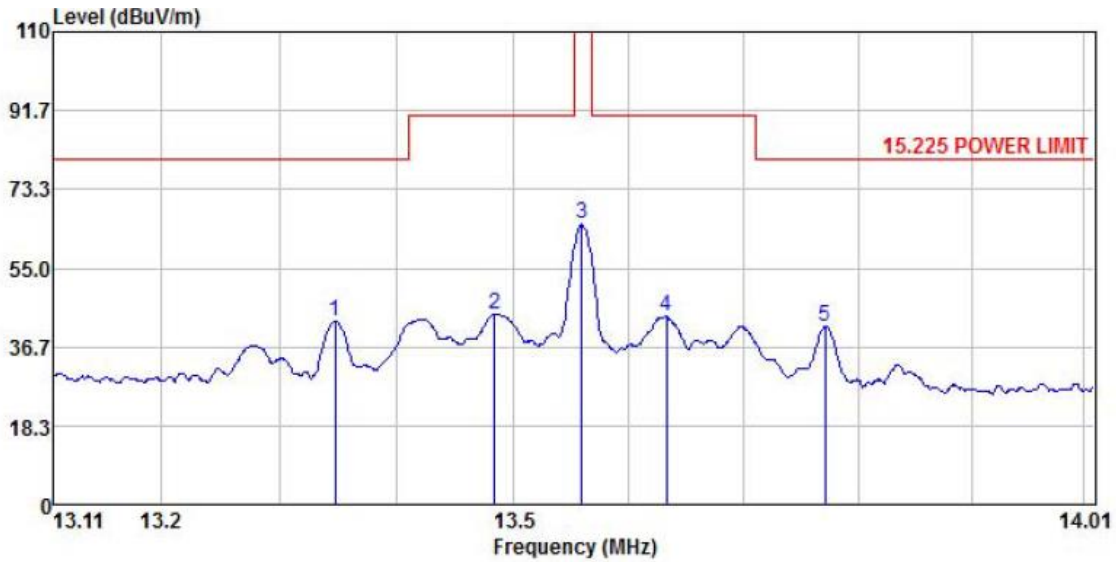
Test plot as follows:



6.5 Field Strength Emissions

Field Strength of fundamental signal:

Product name:	Smart Kiosk	Product model:	SK300
Test By:	Mike	Test mode:	NFC Tx mode
Test Voltage:	AC 120/60Hz		



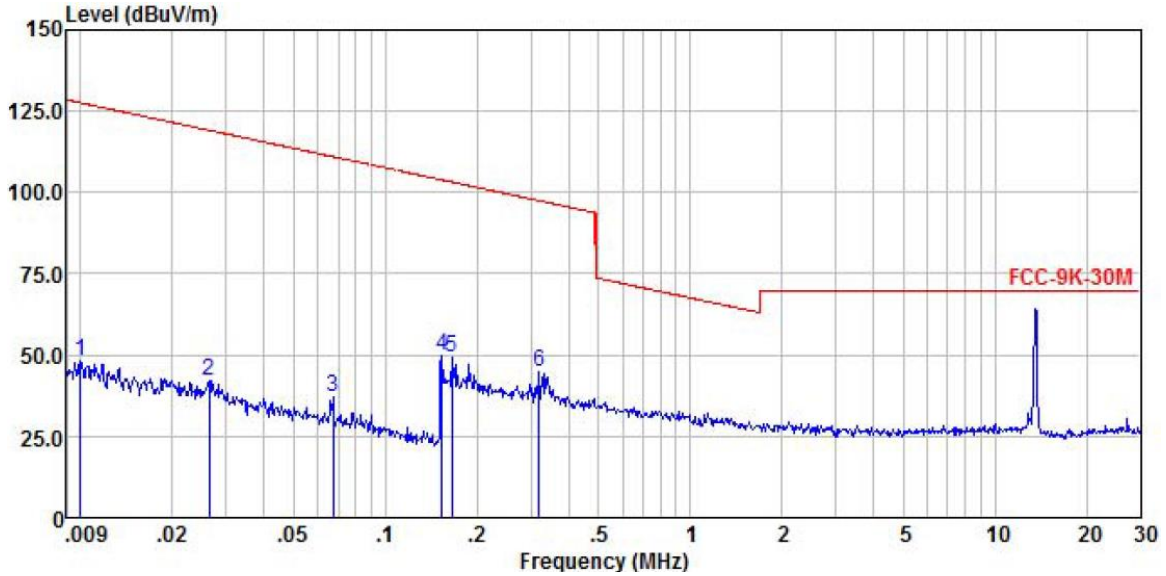
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.347	22.65	19.63	0.40	0.00	42.68	80.50	-37.82	Peak
2	13.483	24.21	19.61	0.41	0.00	44.23	90.50	-46.27	Peak
3	13.559	45.20	19.59	0.41	0.00	65.20	124.00	-58.80	Peak
4	13.632	23.77	19.57	0.42	0.00	43.76	90.50	-46.74	Peak
5	13.771	21.44	19.54	0.43	0.00	41.41	80.50	-39.09	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

Spurious Emissions:

Product name:	Smart Kiosk	Product model:	SK300
Test By:	Mike	Test mode:	NCF Tx mode
Test Frequency:	150 kHz – 30 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

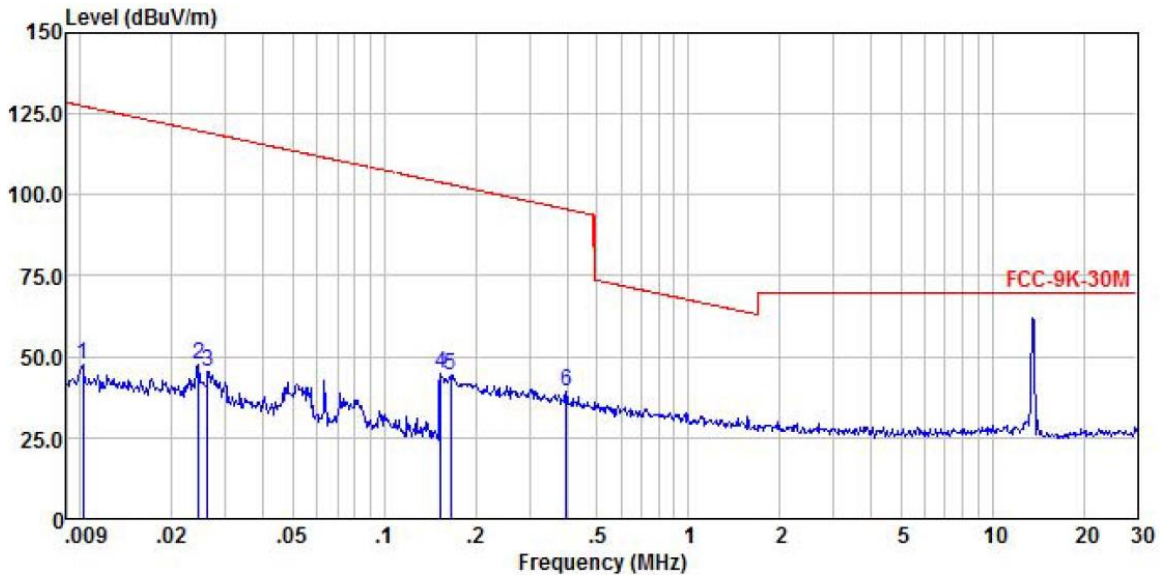


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	27.87	20.50	0.01	0.00	48.38	127.58	-79.20 Peak
2	0.026	21.84	20.23	0.01	0.00	42.08	119.13	-77.05 Peak
3	0.067	16.56	20.51	0.02	0.00	37.09	111.03	-73.94 Peak
4	0.154	29.61	20.21	0.03	0.00	49.85	103.88	-54.03 Peak
5	0.166	28.84	20.25	0.03	0.00	49.12	103.24	-54.12 Peak
6	0.319	24.14	20.58	0.06	0.00	44.78	97.52	-52.74 Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz–150 kHz are background noise and very lower than the limit, not show in test report.

Product name:	Smart Kiosk	Product model:	SK300
Test By:	Mike	Test mode:	NCF Tx mode
Test Frequency:	150 kHz – 30 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

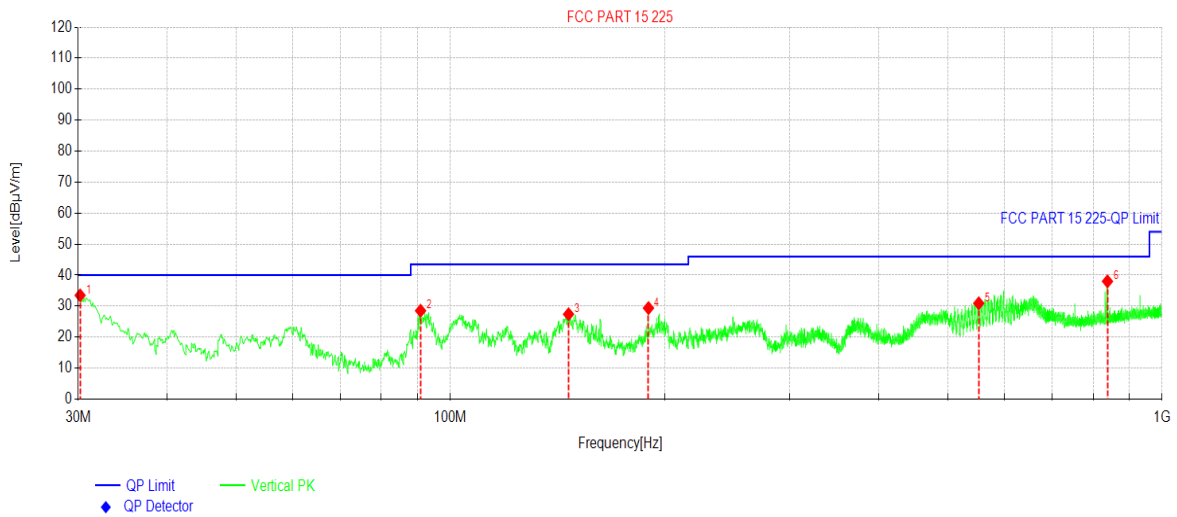


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	26.95	20.50	0.01	0.00	47.46	127.44	-79.98	Peak
2	0.024	27.20	20.26	0.01	0.00	47.47	119.83	-72.36	Peak
3	0.026	25.16	20.24	0.01	0.00	45.41	119.20	-73.79	Peak
4	0.154	24.77	20.21	0.03	0.00	45.01	103.88	-58.87	Peak
5	0.166	23.93	20.25	0.03	0.00	44.21	103.24	-59.03	Peak
6	0.398	18.71	20.69	0.06	0.00	39.46	95.62	-56.16	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.

Product name:	Smart Kiosk	Product model:	SK300
Test By:	Mike	Test mode:	NCF Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

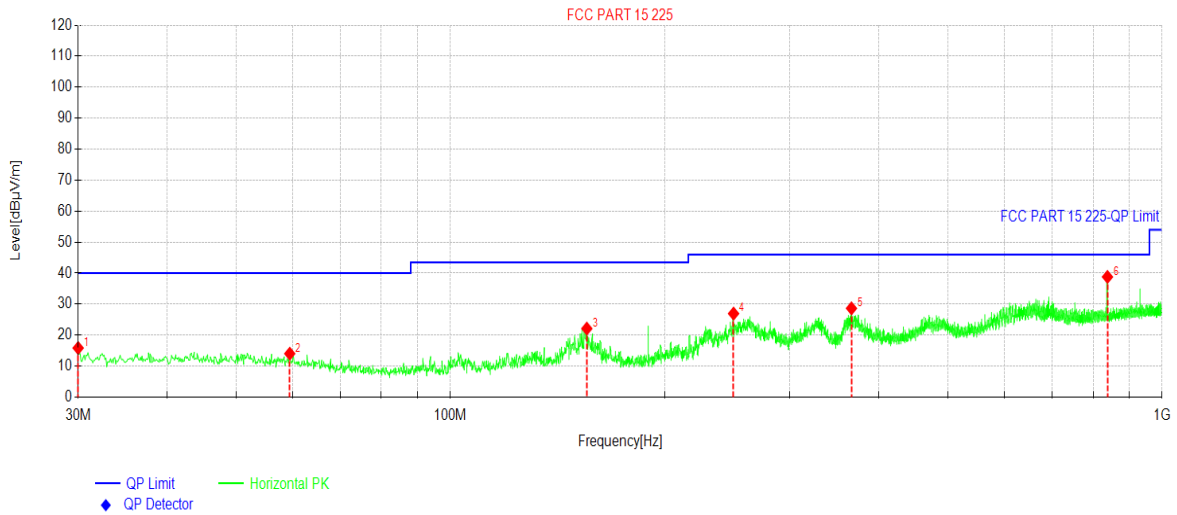


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	30.1940	48.51	33.48	-15.03	40.00	6.52	PK	Vertical
2	90.8251	47.20	28.52	-18.68	43.50	14.98	PK	Vertical
3	146.605	41.38	27.39	-13.99	43.50	16.11	PK	Vertical
4	189.872	45.23	29.39	-15.84	43.50	14.11	PK	Vertical
5	552.688	37.37	30.92	-6.45	46.00	15.08	PK	Vertical
6	838.187	39.28	38.00	-1.28	46.00	8.00	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product name:	Smart Kiosk	Product model:	SK300
Test By:	Mike	Test mode:	NCF Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	30.0000	30.91	15.85	-15.06	40.00	24.15	PK	Horizontal
2	59.4909	28.98	14.02	-14.96	40.00	25.98	PK	Horizontal
3	155.530	35.57	22.11	-13.46	43.50	21.39	PK	Horizontal
4	250.018	41.38	26.94	-14.44	46.00	19.06	PK	Horizontal
5	366.138	40.15	28.65	-11.50	46.00	17.35	PK	Horizontal
6	838.187	40.06	38.78	-1.28	46.00	7.22	PK	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

6.6 Frequency Tolerance

Frequency stability V.S. Temperature measurement:

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Error (%)	Limit (%)	Results
24.0	-20	156	0.00115	±0.01	Pass
	-10	154	0.00114	±0.01	Pass
	0	156	0.00115	±0.01	Pass
	+10	153	0.00113	±0.01	Pass
	+20	155	0.00114	±0.01	Pass
	+30	152	0.00112	±0.01	Pass
	+40	151	0.00111	±0.01	Pass
	+50	154	0.00114	±0.01	Pass

Frequency stability V.S. Voltage measurement:

Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (Hz)	Frequency Error (%)	Limit (%)	Results
25.0	10.2	155	0.00114	±0.01	Pass
	120	152	0.00112	±0.01	Pass
	55.2	154	0.00114	±0.01	Pass

-----End of report-----