

JianYan Testing Group Shenzhen Co., Ltd.

certificate: 4346.01

Report No.: JYTSZ-R12-2200157

FCC RF Test Report

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 (§15.247)

Date of sample receipt: 24 Jan., 2022

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

Date of report issued: 04 Mar., 2022

Test Result: PASS

Tested by: Date: 04 Mar., 2022

Reviewed by: Date: 04 Mar., 2022

Approved by: Date: 04 Mar., 2022

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





3 Contents

			Fage
1	COV	/ER PAGE	1
2	VER	SION	2
3		ITENTS	
4	GEN	IERAL INFORMATION	
	4.1	CLIENT INFORMATION	
	4.2	GENERAL DESCRIPTION OF E.U.T.	
	4.3	TEST MODE AND TEST ENVIRONMENT	
	4.4	DESCRIPTION OF SUPPORT UNITS	
	4.5	MEASUREMENT UNCERTAINTY	
	4.6	ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	
	4.7	LABORATORY FACILITY	
	4.8	LABORATORY LOCATION	
	4.9	TEST INSTRUMENTS LIST	6
5	MEA	ASUREMENT SETUP AND PROCEDURE	8
	5.1	Test channel	8
	5.2	TEST SETUP	
	5.3	TEST PROCEDURE	10
6	TES	T RESULTS	11
•			
	6.1	SUMMARY	
	6.1.1 6.1.2	•	
	6.2	ANTENNA REQUIREMENT	
	6.3	CONDUCTED EMISSION	
	6.4	BAND EDGE (RADIATED METHOD)	
	6.5	SPURIOUS EMISSION (RADIATED METHOD)	
		,	
ΑI	PENDI	X A – BLE-1M PHY	38
ΑI	PPENDI	X B – BLE-2M PHY	57
ΑI	PPENDI	X C – BLE-CODED PHY,S=2	76
ΔΙ	PPFNDI	X D = BI F-CODED PHY S=8	95





4 General Information

4.1 Client Information

Applicant:	PAX Technology Limited			
Address:	oom 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:	2402 MHz - 2480 MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Data speed:	1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY)
	125 kbps (LE Coded PHY, S=8), 500 kbps (LE Coded PHY, S=2)
Antenna Type:	Internal Antenna
Antenna gain:	1.5dBi
AC 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 Test Environment

Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Remark: For AC power line con	ducted emission and radiated spurious emission (below 1GHz), pre-scan all data speed,
found 1 Mbps (LE 1M PHY) was	worse case mode. The report only reflects the test data of worst mode.
Operating Environment:	
Temperature:	15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

4.4 Description of Support Units

The EUT has been tested as an independent unit.

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 (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

The test facility is recognized, certified, or accredited by the following organizations:

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

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://jvt.lets.com

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-148-C 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





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
RiCanil og Antonna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
BiConiLog Antenna	Scriwarzbeck	VOLDS103	VV AJ002	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
nom Antenna	Schwarzbeck	DDNA9120D	VV AJUUZ-Z	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier	Schwarzbeck	BBV9743B	WXG001-7	03-07-2021	03-06-2022
(30MHz ~ 1GHz)	Scriwarzbeck	DD V 97 43 D	WAG001-7	02-17-2022	02-16-2023
Pre-amplifier	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
(1GHz ~ 18GHz)				02-17-2022	02-16-2023
Pre-amplifier	DE Cyatam	TRLA-	WXG001-9	03-07-2021	03-06-2022
(18GHz ~ 40GHz)	RF System	180400G45B	WAG001-9	02-17-2022	02-16-2023
EMI Took Dogobyon	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
EMI Test Receiver			VV XJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Coaxial Cable	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
(30MHz ~ 1GHz)	JYISZ	JY13IVI-1G-ININ-8IVI	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable	JYTSZ	JYT3M-18G-NN-	WXG001-5	03-07-2021	03-06-2022
(1GHz ~ 18GHz)	J115Z	8M	WAG001-5	02-17-2022	02-16-2023
Coaxial Cable	axial Cable JYT3M-40G-SS-	WXG001-7	03-07-2021	03-06-2022	
(18GHz ~ 40GHz)	JYTSZ	8M	VV XG001-7	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	M/X/1000	03-03-2021	03-02-2022	
Elvii Test Receivei	Ronde & Schwarz	E3CI 3	WXJ003	02-17-2022	02-16-2023	
RF Switch	TOP PRECISION F	DOLLOGGA	WXG003	03-03-2021	03-02-2022	
RF SWILCH		RSU0301		02-17-2022	02-16-2023	
LISN	Schwarzbeck	NSLK 8127	00 1004 43	03-18-2021	03-17-2022	
LISIN	Schwarzbeck	NOLK 0121	QCJ001-13	02-17-2022	02-16-2023	
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022	
LISN Coaxial Cable	IVTO7	IVTCE 4C NIN 2M	WVC002 4	03-03-2021	03-02-2022	
(9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023	
Test Software	AUDIX	E3	Version: 6.110919b			





Conducted Method:						
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	10-25-2021	10-24-2022	
Vector Signal Generator	Keysight	N5182B	WXJ006-6	10-25-2021	10-24-2022	
Signal Generator	Keysight	N5173B	WXJ006-4	10-25-2021	10-24-2022	
Wireless Connectivity Tester	Rohde & Schwarz	CMW270	WXJ008-7	10-25-2021	10-24-2022	
DC Power Supply	Keysight	E3642A	WXJ025-2	10-25-2021	10-24-2022	
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2022	
Power Detector Box	MWRFTEST	MW100-PSB	WXJ007-4	10-25-2021	10-24-2022	
RF Control Unit	MWRFTEST	MW100-RFCB	WXG006	N	/A	
Test Software	MWRFTEST	MTS 8310		Version: 2.0.0.0		





5 Measurement setup and procedure

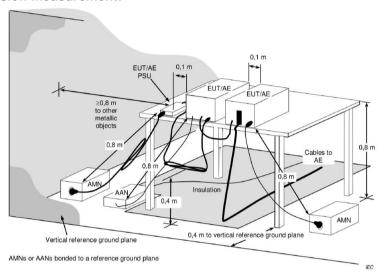
5.1 Test channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2442	39	2480

5.2 Test setup

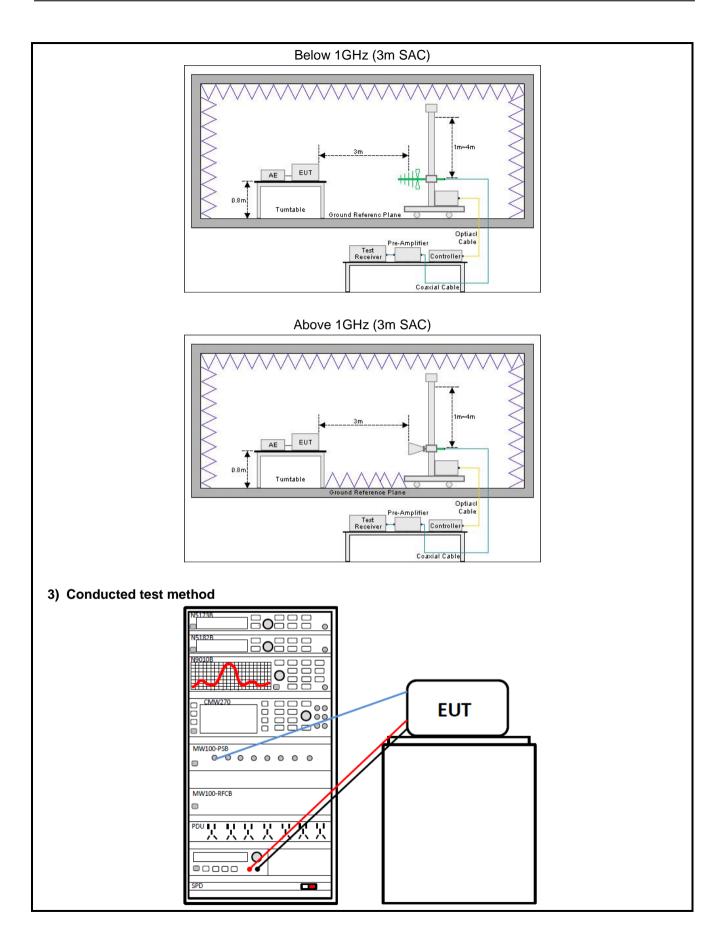
1) Conducted emission measurement:



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:









5.3 Test procedure

Test step
 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. 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). 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.
For below 1GHz:
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.
For above 1GHz:
The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. 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.
The BLE antenna port of EUT was connected to the test port of the test system through an RF cable. The EUT is keeping in continuous transmission mode and tested in all
modulation modes.
3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.



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 15.247 (b)(4)	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – LE 1M PHY Appendix B – LE 2M PHY Appendix C – LE Coded PHY, S=2 Appendix D – LE Coded PHY, S=8	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – LE 1M PHY Appendix B – LE 2M PHY Appendix C – LE Coded PHY, S=2 Appendix D – LE Coded PHY, S=8	Pass
Power Spectral Density	15.247 (e)	Appendix A – LE 1M PHY Appendix B – LE 2M PHY Appendix C – LE Coded PHY, S=2 Appendix D – LE Coded PHY,S=8	Pass
Band Edge (Conducted Method)	15.247 (d)	Appendix A – LE 1M PHY Appendix B – LE 2M PHY Appendix C – LE Coded PHY, S=2 Appendix D – LE Coded PHY, S=8	Pass
Band Edge (Radiated Method)	15.205 15.209	See Section 6.4	Pass
Spurious Emission (Conducted Method)	15.247(d)	Appendix A – LE 1M PHY Appendix B – LE 2M PHY Appendix C – LE Coded PHY, S=2 Appendix D – LE Coded PHY, S=8	Pass
Spurious Emission (Radiated Method)	15.205 15.209	See Section 6.5	Pass

Remark:

Test Method: ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

^{1.} Pass: The EUT complies with the essential requirements in the standard.

^{2.} The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).



6.1.2 Test Limit

0.1.2 Test Limit	I imit						
Items	_		Limit				
		Frequency range (MHz)		dBuV)			
AC Power Line Conducted	<u> </u>	0.45.05	Quasi-peak	Average	_		
Emission		0.15-0.5 0.5-5	66 to 56* 56	56 to 46* 46	\dashv		
Lillission		5-30	60	50	-		
	*	Decreases with the logar	thm of the frequency.				
Conducted Peak Output Power	_	stems using digital mod 25-5850 MHz bands:		3 MHz, 2400-2483.5	MHz,		
6dB Emission Bandwidth	The m	inimum 6 dB bandwidtl	n shall be at least 500	kHz.			
Power Spectral Density	intentio	gitally modulated syster onal radiator to the anto luring any time interval	enna shall not be grea	ter than 8 dBm in an			
Conducted Band Edge and Conducted Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).						
		Frequency	Limit (dBuV/m @3m)	Remark			
Radiated Band Edge			54.0	Average Value			
radiated baria Edge		Above 1GHz	74.0	Peak Value			
	Below	1GHz (Measurement	distance for 3 m):				
		Frequency	Limit (dBuV/m @3m)	Remark			
		30MHz-88MHz	40.0	Quasi-peak Value			
Pediated Spurious		88MHz-216MHz	43.5	Quasi-peak Value			
		216MHz-960MHz	46.0	Quasi-peak Value			
Radiated Spurious Emission		960MHz-1GHz	54.0	Quasi-peak Value			
Emission	Above	1GHz (Measurement	distance for 3 m):				
		Frequency	Limit (dBuV/m @3m)	Remark			
			54.0	Average Value			
	Above 1GHz		74.0 Peak Value				
1							



Report No.: JYTSZ-R12-2200157

6.2 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

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.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

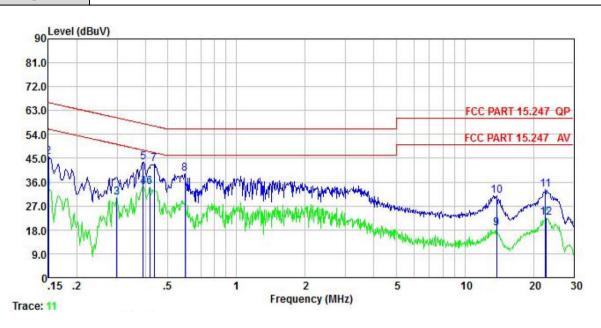
E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.5 dBi. See product internal photos for details.



6.3 Conducted Emission

Product name:	Smart Kiosk	Product model:	SK300
Test by:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



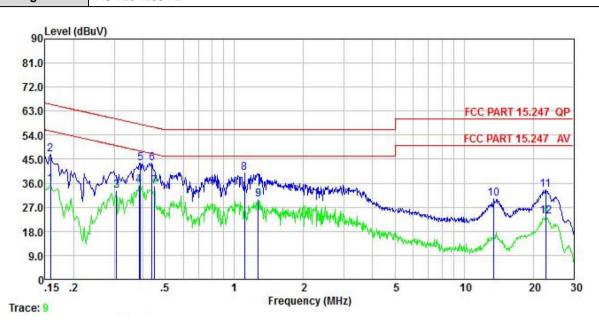
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	<u>dB</u>	₫B	dBu₹	dBu∇	<u>dB</u>	
1 2 3	0.150 0.150	33.33 45.52	0.04 0.04	0.01 0.01	33.38 45.57		-22.62 -20.43	Average
	0.299	30.14	0.04	0.03	30.21	50.28	-20.07	Average
4 5 6 7	0.389 0.389	34.04 43.28	0.04 0.04	0.04 0.04	34.12 43.36		-13.96 -14.72	Average QP
6	0.417 0.435	34.17 42.72	0.04	0.04	34.25 42.79		-13.26 -14.36	Average
8	0.595	39.05	0.04	0.02	39.11	56.00	-16.89	QP
9 10	13.768 13.841	18. 24 30. 47	0.26	0.12	18.62 30.85		-31.38 -29.15	Average QP
11 12	22.535 22.775	32.81 21.94	0.34 0.35	0.16 0.16	33.31 22.45	60.00	-26.69	

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:	BLE Tx (LE 1M PHY)
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
•	MHz	₫₿uѶ	<u>dB</u>		dBu₹	dBu∀	<u>dB</u>	
1	0.158	35.59	0.05	0.01	35.65			Average
1 2 3	0.158 0.307	46.86 33.01	0.05 0.04	0.01 0.03	46.92 33.08		-18.64	QP Average
	0.385	35.13	0.04	0.03	35.20			Average
4 5 6	0.389	43.44	0.04	0.04	43.52		-14.56	
6	0.437	43.55	0.04	0.03	43.62	57.11	-13.49	QP
7	0.449	34.67	0.04	0.03	34.74	46.89	-12.15	Average
8	1.106	39.74	0.05	0.07	39.86	56.00	-16.14	QP
8	1.269	29.89	0.05	0.10	30.04	46.00	-15.96	Average
10	13.479	29.81	0.23	0.11	30.15	60.00	-29.85	QP
11	22.655	33.02	0.33	0.16	33.51	60.00	-26.49	QP
12	22.775	23.11	0.33	0.16	23.60	50.00	-26.40	Average

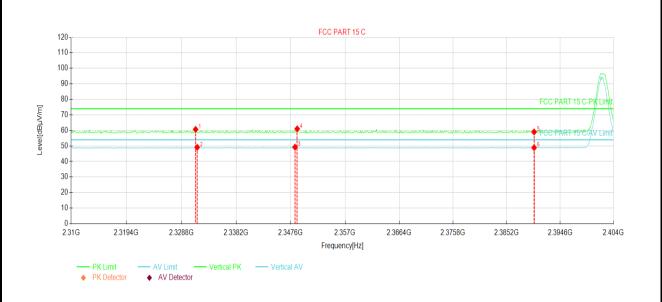
Notes

- 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.



6.4 Band Edge (Radiated Method)

Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



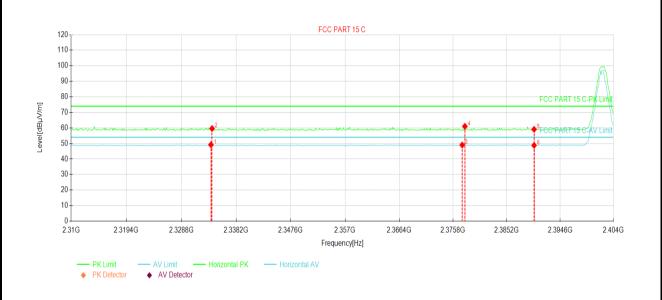
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2331.24	25.23	60.65	35.42	74.00	13.35	PK	Vertical
2	2331.52	13.71	49.13	35.42	54.00	4.87	AV	Vertical
3	2348.35	13.71	49.25	35.54	54.00	4.75	AV	Vertical
4	2348.72	25.47	61.02	35.55	74.00	12.98	PK	Vertical
5	2390.00	23.20	59.04	35.84	74.00	14.96	PK	Vertical
6	2390.00	13.08	48.92	35.84	54.00	5.08	AV	Vertical

Remark:

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

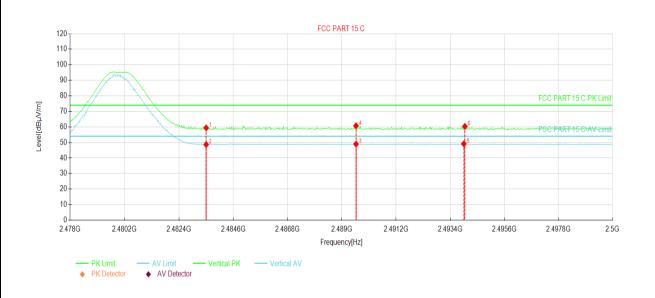


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2333.87	13.73	49.17	35.44	54.00	4.83	AV	Horizontal
2	2334.06	24.17	59.61	35.44	74.00	14.39	PK	Horizontal
3	2377.39	13.28	49.03	35.75	54.00	4.97	AV	Horizontal
4	2377.86	25.27	61.02	35.75	74.00	12.98	PK	Horizontal
5	2390.00	23.25	59.09	35.84	74.00	14.91	PK	Horizontal
6	2390.00	12.94	48.78	35.84	54.00	5.22	AV	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

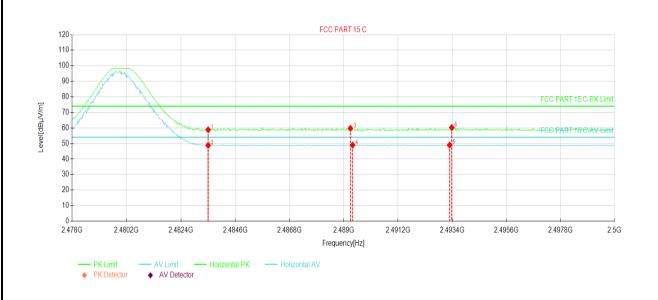


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.64	59.36	35.72	74.00	14.64	PK	Vertical
2	2483.50	12.92	48.64	35.72	54.00	5.36	AV	Vertical
3	2489.57	13.31	49.01	35.70	54.00	4.99	AV	Vertical
4	2489.57	25.07	60.77	35.70	74.00	13.23	PK	Vertical
5	2493.95	13.45	49.14	35.69	54.00	4.86	AV	Vertical
6	2493.99	24.64	60.33	35.69	74.00	13.67	PK	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

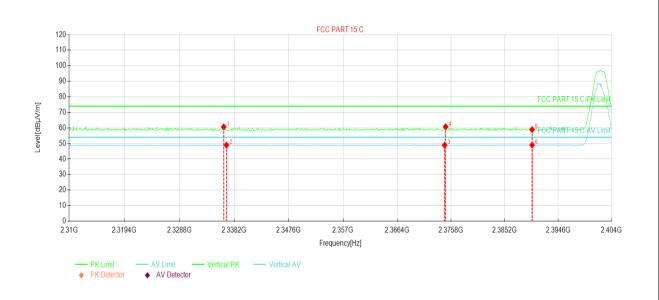


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.09	58.81	35.72	74.00	15.19	PK	Horizontal
2	2483.50	13.09	48.81	35.72	54.00	5.19	AV	Horizontal
3	2489.26	24.02	59.72	35.70	74.00	14.28	PK	Horizontal
4	2489.35	13.27	48.97	35.70	54.00	5.03	AV	Horizontal
5	2493.29	13.25	48.95	35.70	54.00	5.05	AV	Horizontal
6	2493.37	24.57	60.27	35.70	74.00	13.73	PK	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

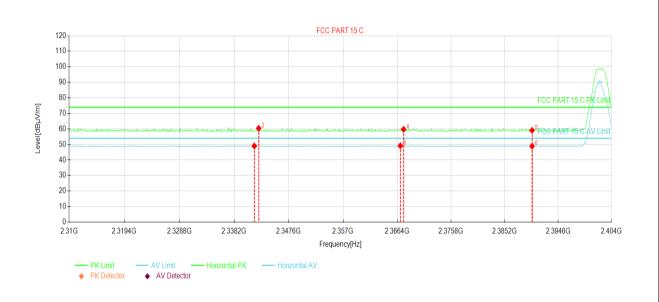


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2336.41	25.22	60.68	35.46	74.00	13.32	PK	Vertical
2	2336.88	13.52	48.98	35.46	54.00	5.02	AV	Vertical
3	2374.67	13.18	48.91	35.73	54.00	5.09	AV	Vertical
4	2374.86	25.05	60.78	35.73	74.00	13.22	PK	Vertical
5	2390.00	23.11	58.95	35.84	74.00	15.05	PK	Vertical
6	2390.00	13.13	48.97	35.84	54.00	5.03	AV	Vertical

- 3. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 1. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

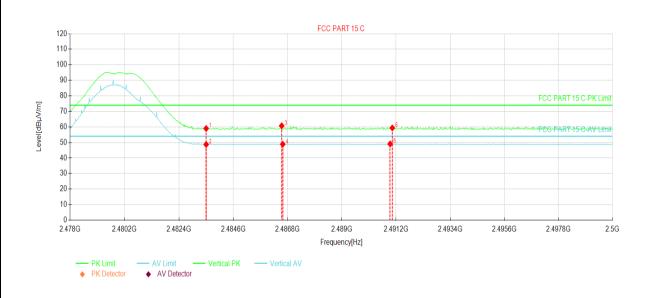


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2341.67	13.52	49.02	35.50	54.00	4.98	AV	Horizontal
2	2342.43	24.91	60.41	35.50	74.00	13.59	PK	Horizontal
3	2366.96	13.50	49.18	35.68	54.00	4.82	AV	Horizontal
4	2367.52	24.06	59.74	35.68	74.00	14.26	PK	Horizontal
5	2390.00	23.26	59.10	35.84	74.00	14.90	PK	Horizontal
6	2390.00	13.07	48.91	35.84	54.00	5.09	AV	Horizontal

- 4. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 1. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

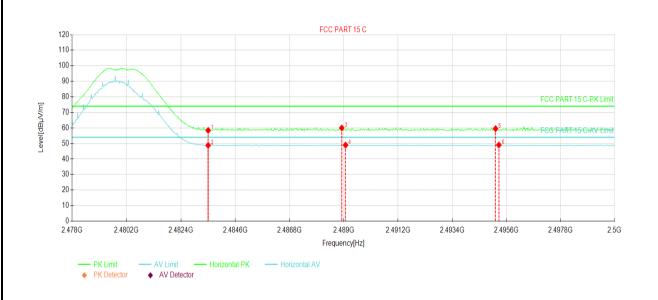


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.28	59.00	35.72	74.00	15.00	PK	Vertical
2	2483.50	12.98	48.70	35.72	54.00	5.30	AV	Vertical
3	2486.55	25.03	60.74	35.71	74.00	13.26	PK	Vertical
4	2486.60	13.16	48.87	35.71	54.00	5.13	AV	Vertical
5	2490.95	13.36	49.06	35.70	54.00	4.94	AV	Vertical
6	2491.04	23.66	59.36	35.70	74.00	14.64	PK	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

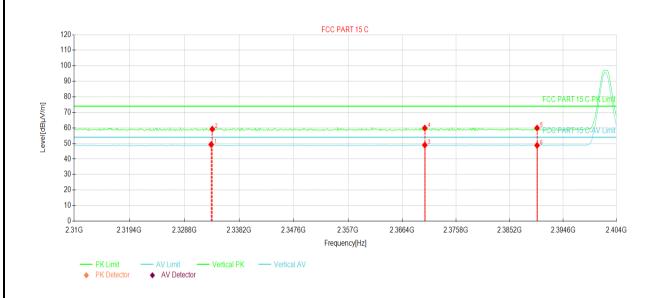


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.70	58.42	35.72	74.00	15.58	PK	Horizontal
2	2483.50	13.07	48.79	35.72	54.00	5.21	AV	Horizontal
3	2488.91	24.28	59.99	35.71	74.00	14.01	PK	Horizontal
4	2489.06	13.26	48.97	35.71	54.00	5.03	AV	Horizontal
5	2495.16	23.82	59.51	35.69	74.00	14.49	PK	Horizontal
6	2495.29	13.34	49.03	35.69	54.00	4.97	AV	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

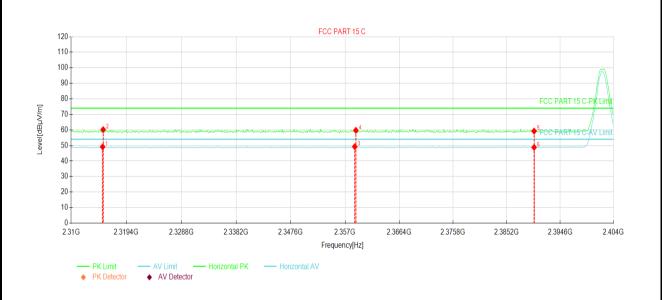


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2333.40	13.87	49.31	35.44	54.00	4.69	AV	Vertical
2	2333.59	23.81	59.25	35.44	74.00	14.75	PK	Vertical
3	2370.34	13.27	48.97	35.70	54.00	5.03	AV	Vertical
4	2370.34	24.19	59.89	35.70	74.00	14.11	PK	Vertical
5	2390.00	24.07	59.91	35.84	74.00	14.09	PK	Vertical
6	2390.00	12.94	48.78	35.84	54.00	5.22	AV	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

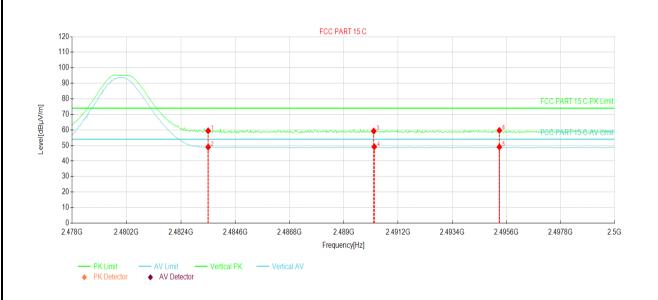


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2315.35	13.81	49.12	35.31	54.00	4.88	AV	Horizontal
2	2315.45	24.91	60.22	35.31	74.00	13.78	PK	Horizontal
3	2358.69	13.60	49.22	35.62	54.00	4.78	AV	Horizontal
4	2358.88	24.14	59.76	35.62	74.00	14.24	PK	Horizontal
5	2390.00	23.40	59.24	35.84	74.00	14.76	PK	Horizontal
6	2390.00	12.94	48.78	35.84	54.00	5.22	AV	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

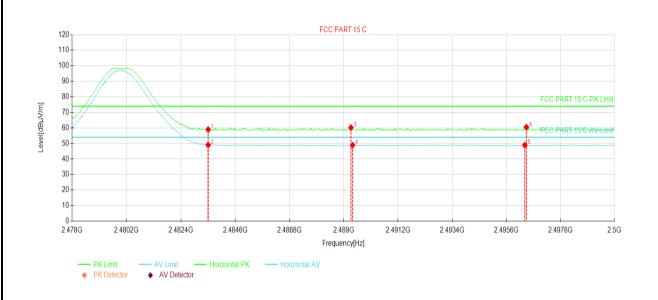


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.71	59.43	35.72	74.00	14.57	PK	Vertical
2	2483.50	13.22	48.94	35.72	54.00	5.06	AV	Vertical
3	2490.21	23.58	59.28	35.70	74.00	14.72	PK	Vertical
4	2490.23	13.47	49.17	35.70	54.00	4.83	AV	Vertical
5	2495.31	13.32	49.01	35.69	54.00	4.99	AV	Vertical
6	2495.31	23.99	59.68	35.69	74.00	14.32	PK	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

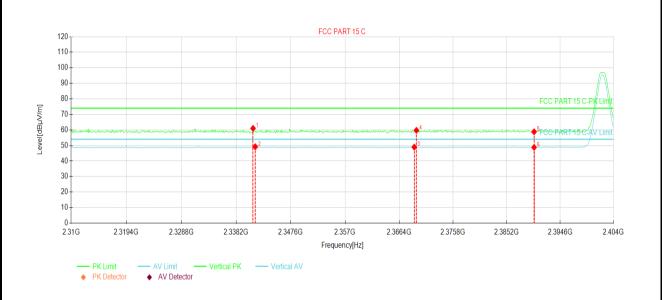


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.22	58.94	35.72	74.00	15.06	PK	Horizontal
2	2483.50	13.31	49.03	35.72	54.00	4.97	AV	Horizontal
3	2489.28	24.51	60.21	35.70	74.00	13.79	PK	Horizontal
4	2489.35	13.21	48.91	35.70	54.00	5.09	AV	Horizontal
5	2496.34	13.23	48.92	35.69	54.00	5.08	AV	Horizontal
6	2496.41	24.78	60.47	35.69	74.00	13.53	PK	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

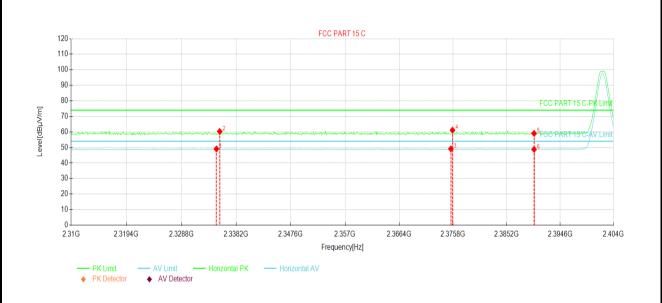


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2341.11	25.52	61.01	35.49	74.00	12.99	PK	Vertical
2	2341.49	13.68	49.17	35.49	54.00	4.83	AV	Vertical
3	2369.03	13.26	48.95	35.69	54.00	5.05	AV	Vertical
4	2369.40	24.04	59.73	35.69	74.00	14.27	PK	Vertical
5	2390.00	22.96	58.80	35.84	74.00	15.20	PK	Vertical
6	2390.00	12.93	48.77	35.84	54.00	5.23	AV	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

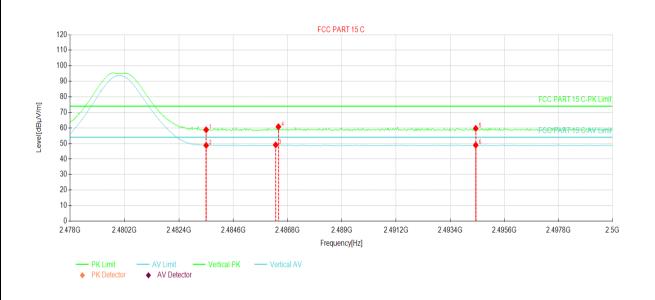


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2334.81	13.60	49.05	35.45	54.00	4.95	AV	Horizontal
2	2335.38	24.87	60.32	35.45	74.00	13.68	PK	Horizontal
3	2375.42	13.38	49.12	35.74	54.00	4.88	AV	Horizontal
4	2375.70	25.42	61.16	35.74	74.00	12.84	PK	Horizontal
5	2390.00	23.20	59.04	35.84	74.00	14.96	PK	Horizontal
6	2390.00	12.94	48.78	35.84	54.00	5.22	AV	Horizontal

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor)..
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

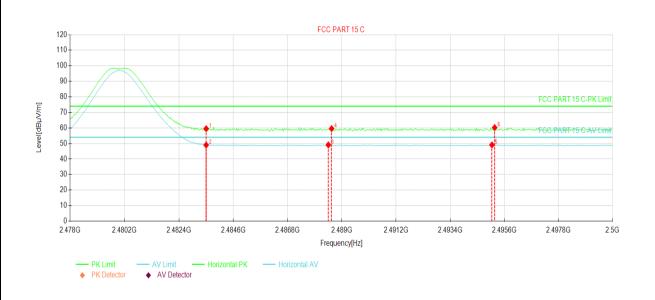


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.08	58.80	35.72	74.00	15.20	PK	Vertical
2	2483.50	13.05	48.77	35.72	54.00	5.23	AV	Vertical
3	2486.31	13.37	49.08	35.71	54.00	4.92	AV	Vertical
4	2486.42	25.06	60.77	35.71	74.00	13.23	PK	Vertical
5	2494.43	24.00	59.69	35.69	74.00	14.31	PK	Vertical
6	2494.43	13.24	48.93	35.69	54.00	5.07	AV	Vertical

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	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	2483.50	23.80	59.52	35.72	74.00	14.48	PK	Horizontal
2	2483.50	13.26	48.98	35.72	54.00	5.02	AV	Horizontal
3	2488.45	13.37	49.08	35.71	54.00	4.92	AV	Horizontal
4	2488.58	23.86	59.57	35.71	74.00	14.43	PK	Horizontal
5	2495.09	13.41	49.10	35.69	54.00	4.90	AV	Horizontal
6	2495.20	24.55	60.24	35.69	74.00	13.76	PK	Horizontal

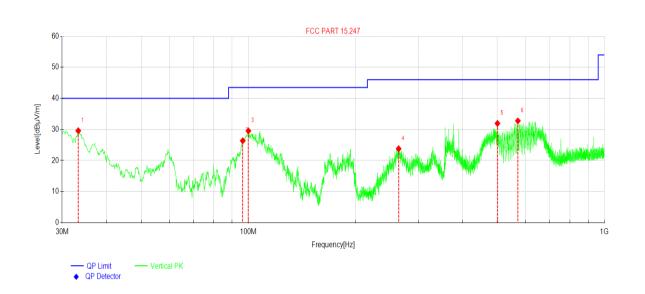
- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



6.5 Spurious Emission (Radiated Method)

Below 1GHz:

Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



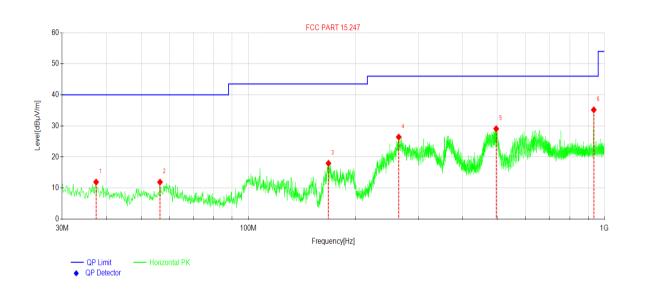
NO.	Freq. [MHz]	Reading[d BµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	33.2983	44.98	29.58	-15.40	40.00	10.42	PK	Vertical
2	96.4516	43.19	26.36	-16.83	43.50	17.14	PK	Vertical
3	100.041	45.71	29.54	-16.17	43.50	13.96	PK	Vertical
4	264.278	37.36	23.79	-13.57	46.00	22.21	PK	Vertical
5	500.594	38.89	31.94	-6.95	46.00	14.06	PK	Vertical
6	571.217	39.00	32.75	-6.25	46.00	13.25	PK	Vertical

Remark:

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Smart Kiosk	Product Model:	SK300
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



NO.	Freq. [MHz]	Reading[d BuV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	37.3727	26.68	11.93	-14.75	40.00	28.07	PK	Horizontal
2	56.4836	26.66	11.92	-14.74	40.00	28.08	PK	Horizontal
3	167.850	35.07	17.98	-17.09	43.50	25.52	PK	Horizontal
4	264.375	39.99	26.43	-13.56	46.00	19.57	PK	Horizontal
5	496.422	36.18	29.09	-7.09	46.00	16.91	PK	Horizontal
6	933.063	36.36	35.19	-1.17	46.00	10.81	PK	Horizontal

Romark

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Above 1GHz

		В	LE Tx (LE 1M PH	Y)		
		Test o	hannel: Lowest ch	nannel		
		D	etector: Peak Valu	ıe		
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization
4804.00	56.55	-9.60	46.95	74.00	27.05	Vertical
4804.00	56.48	-9.60	46.88	74.00	27.12	Horizontal
		Det	tector: Average Va	alue		
Frequency	Read Level	Factor	Level	Limit	Margin	Delevineties
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Polarization
4804.00	49.35	-9.60	39.75	54.00	14.25	Vertical
4804.00	48.81	-9.60	39.21	54.00	14.79	Horizontal
		Toot	channel: Middle ch	annal		
			etector: Peak Valu			
Frequency	Read Level	Factor	Level	Limit	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	Margin (dB)	Polarization
4884.00	56.49	-9.04	47.45	74.00	26.55	Vertical
4884.00	56.13	-9.04	47.09	74.00	26.91	Horizontal
100 1.00	00.10		tector: Average Va		20.01	Tionzoniai
Frequency	Read Level	Factor	Level	Limit	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Polarization
4884.00	49.39	-9.04	40.35	54.00	13.65	Vertical
4884.00	48.77	-9.04	39.73	54.00	14.27	Horizontal
						1
		Test c	hannel: Highest cl	hannel		
		D	etector: Peak Valu	ıe		
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	1 Glarization
4960.00	56.38	-8.45	47.93	74.00	26.07	Vertical
4960.00	56.11	-8.45	47.66	74.00	26.34	Horizontal
		Det	ector: Average Va	alue		
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.00	49.65	-8.45	41.20	54.00	12.80	Vertical
4960.00	49.22	-8.45	40.77	54.00	13.23	Horizontal

Remark:

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





BLE Tx (LE 2M PHY)								
		Test o	hannel: Lowest cl	hannel				
Detector: Peak Value								
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization		
4804.00	56.45	-9.60	46.85	74.00	27.15	Vertical		
4804.00	56.13	-9.60	46.53	74.00	27.47	Horizontal		
		Det	ector: Average Va	alue				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								
4804.00	49.75	-9.60	40.15	54.00	13.85	Vertical		
4804.00	48.96	-9.60	39.36	54.00	14.64	Horizontal		
		Test o	channel: Middle ch	nannel				
		D	etector: Peak Val	ue				
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization		
4884.00	56.04	-9.04	47.00	74.00	27.00	Vertical		
4884.00	56.14	-9.04	47.10	74.00	26.90	Horizontal		
		Det	ector: Average Va	alue				
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization		
4884.00	50.02	-9.04	40.98	54.00	13.02	Vertical		
4884.00	48.50	-9.04	39.46	54.00	14.54	Horizontal		
	Test channel: Highest channel							
		D	etector: Peak Val	ue				

	Test channel: Highest channel								
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization			
4960.00	56.21	-8.45	47.76	74.00	26.24	Vertical			
4960.00	55.65	-8.45	47.20	74.00	26.80	Horizontal			
		Det	ector: Average Va	alue					
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization			
4960.00	49.82	-8.45	41.37	54.00	12.63	Vertical			
4960.00	48.37	-8.45	39.92	54.00	14.08	Horizontal			

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





	BEL Tx (LE Coded PHY, S=2)								
			:hannel: Lowest cl	<u>_</u>					
			etector: Peak Valu						
Frequency	Read Level	Factor	Level	Limit	Margin	Delevination			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Polarization			
4804.00	56.87	-9.60	47.27	74.00	26.73	Vertical			
4804.00	55.79	-9.60	46.19	74.00	27.81	Horizontal			
		Det	ector: Average Va	alue					
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	FUIdIIZaliUII			
4804.00	49.97	-9.60	40.37	54.00	13.63	Vertical			
4804.00	49.32	-9.60	39.72	54.00	14.28	Horizontal			
		Test c	channel: Middle ch	nannel					
	•	Di	etector: Peak Val		•				
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
4884.00	56.78	-9.04	47.74	74.00	26.26	Vertical			
4884.00	55.38	-9.04	46.34	74.00	27.66	Horizontal			
		Det	tector: Average Va	alue	1				
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	1 Oldifzation			
4884.00	50.27	-9.04	41.23	54.00	12.77	Vertical			
4884.00	49.25	-9.04	40.21	54.00	13.79	Horizontal			
			hannel: Highest c						
	T		etector: Peak Val		T				
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
4960.00	57.06	-8.45	48.61	74.00	25.39	Vertical			
4960.00	55.77	-8.45	47.32	74.00	26.68	Horizontal			
	T		tector: Average Va		T				
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
4960.00	49.86	-8.45	41.41	54.00	12.59	Vertical			
4960.00	49.06	-8.45	40.61	54.00	13.39	Horizontal			
Romark:									

Remark.

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



BEL Tx (LE Coded PHY, S=8)									
		Test c	hannel: Lowest c	hannel					
Detector: Peak Value									
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Polarization			
4804.00	56.98	-9.60	47.38	74.00	26.62	Vertical			
4804.00	56.19	-9.60	46.59	74.00	27.41	Horizontal			
		Det	ector: Average Va	alue					
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization			
4804.00	49.61	-9.60	40.01	54.00	13.99	Vertical			
4804.00	48.98	-9.60	39.38	54.00	14.62	Horizontal			
			channel: Middle cl						
_	1 1		etector: Peak Val		l				
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
4884.00	56.84	-9.04	47.80	74.00	26.20	Vertical			
4884.00	56.24	-9.04	47.20	74.00	26.80	Horizontal			
_	T = T		ector: Average Va		Ι	1			
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization			
4884.00	49.77	-9.04	40.73	54.00	13.27	Vertical			
4884.00	48.71	-9.04	39.67	54.00	14.33	Horizontal			
		Took	h a o a a l . I limb a at a	hanal					
			hannel: Highest c						
F	Deedles !		etector: Peak Val		NAi-	1			
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	\/o+:!			
4960.00	56.57	-8.45	48.12	74.00	25.88	Vertical			
4960.00	56.35	-8.45	47.90	74.00	26.10	Horizontal			
_	1 5 1		ector: Average V			1			
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization			

(dBµV/m)

41.01

40.34

(dBµV/m)

54.00

54.00

(dB)

12.99

13.66

Remark:

(MHz)

4960.00

4960.00

(dBµV)

49.46

48.79

(dB)

-8.45

-8.45

Project No.: JYTSZR2201050

Vertical

Horizontal

^{1.} Final Level = Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

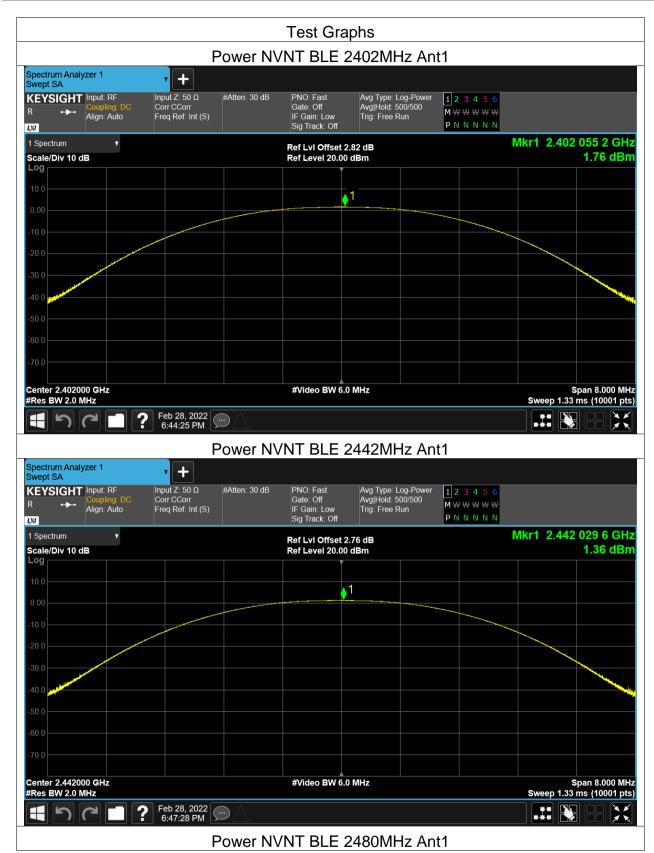


Report No.: JYTSZ-R12-2200157

Appendix A – BLE-1M PHY Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	1.762	0	1.762	30	Pass
NVNT	BLE	2442	Ant1	1.363	0	1.363	30	Pass
NVNT	BLE	2480	Ant1	0.806	0	0.806	30	Pass













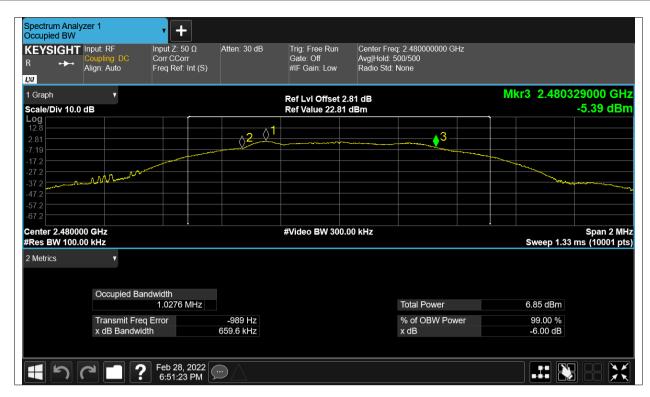
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.659	0.5	Pass
NVNT	BLE	2442	Ant1	0.671	0.5	Pass
NVNT	BLE	2480	Ant1	0.66	0.5	Pass











Report No.: JYTSZ-R12-2200157

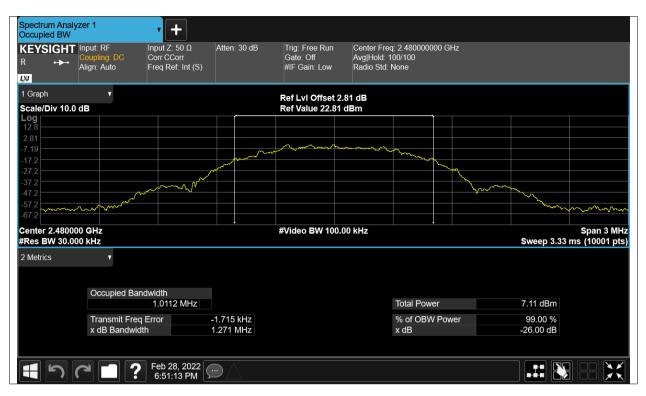
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.009686991
NVNT	BLE	2442	Ant1	1.005617554
NVNT	BLE	2480	Ant1	1.011246123









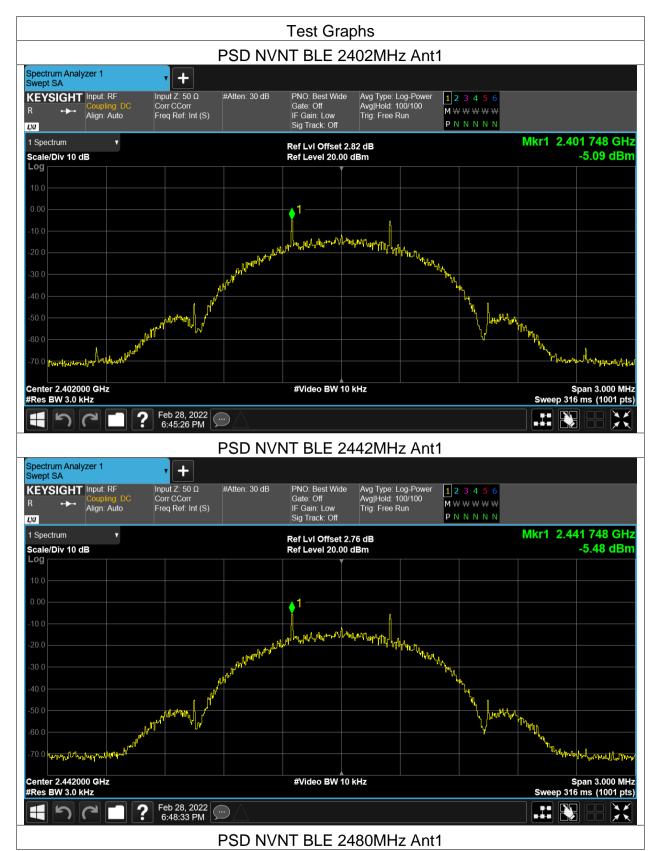




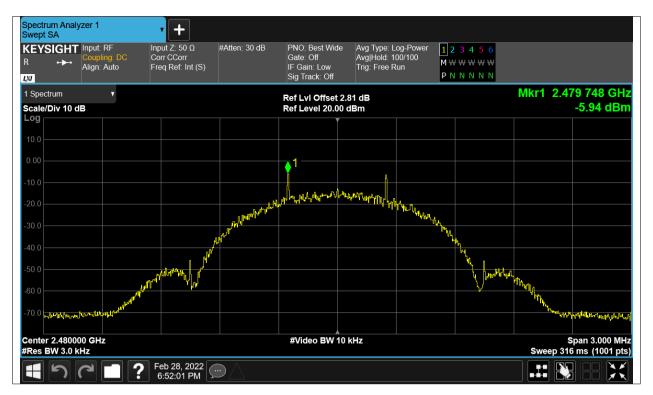
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-5.094	8	Pass
NVNT	BLE	2442	Ant1	-5.48	8	Pass
NVNT	BLE	2480	Ant1	-5.937	8	Pass









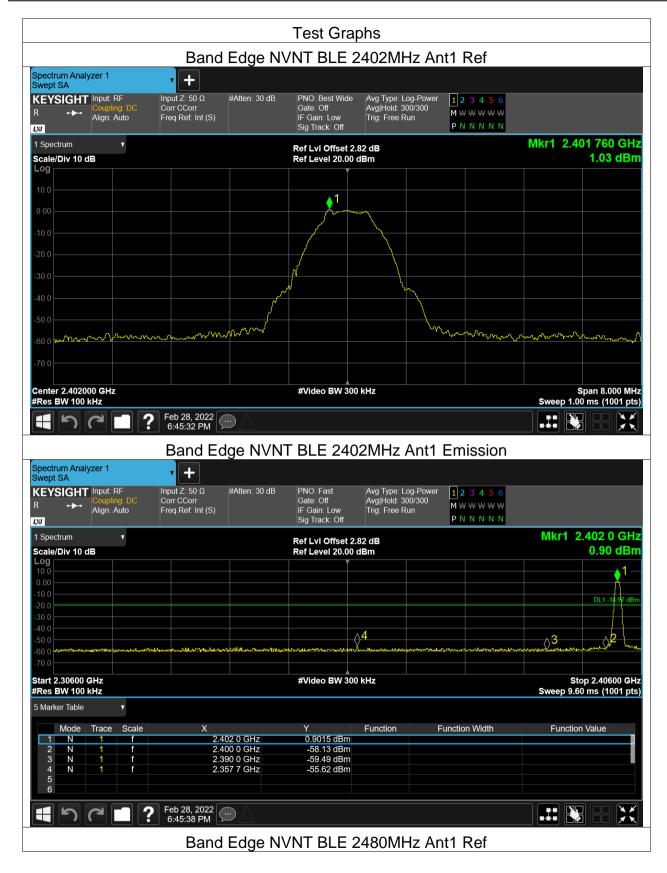




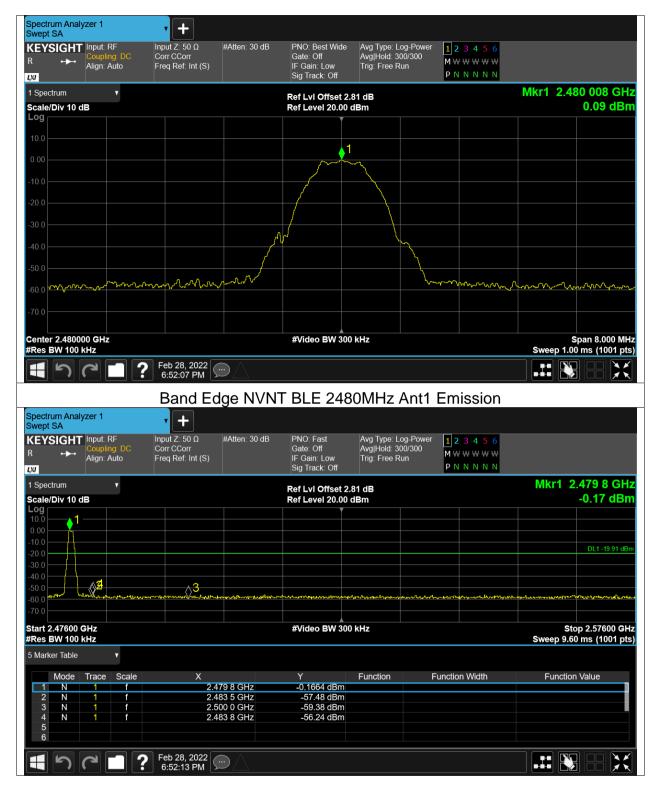
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-56.65	-20	Pass
NVNT	BLE	2480	Ant1	-56.33	-20	Pass









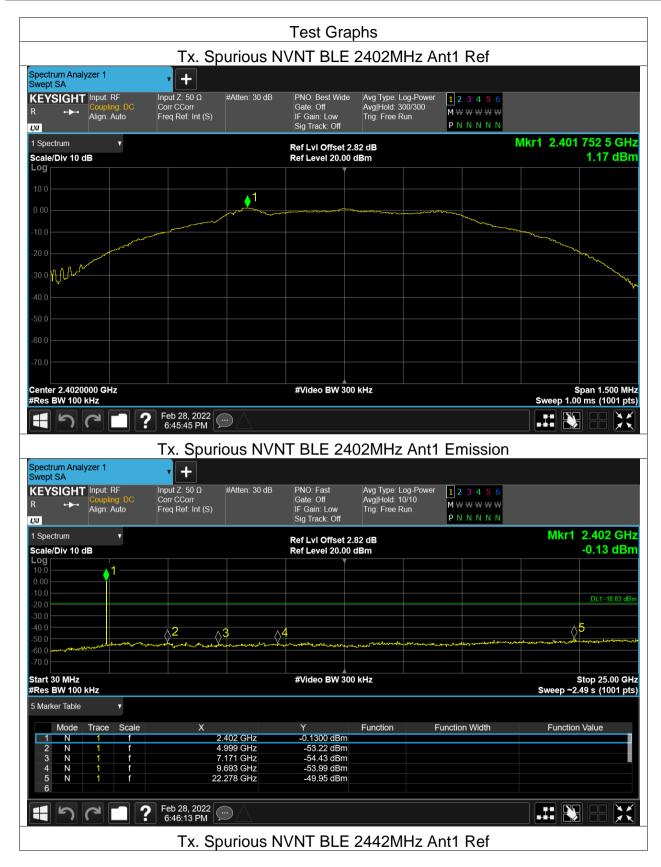


Report No.: JYTSZ-R12-2200157

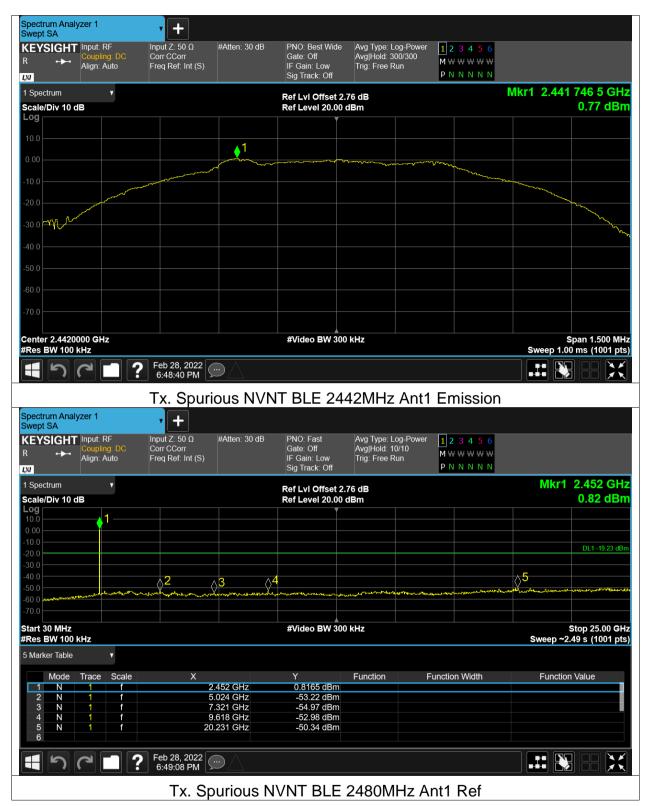
Conducted RF Spurious Emission

П			-				
	Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	BLE	2402	Ant1	-51.11	-20	Pass
Ī	NVNT	BLE	2442	Ant1	-51.1	-20	Pass
	NVNT	BLE	2480	Ant1	-50.78	-20	Pass

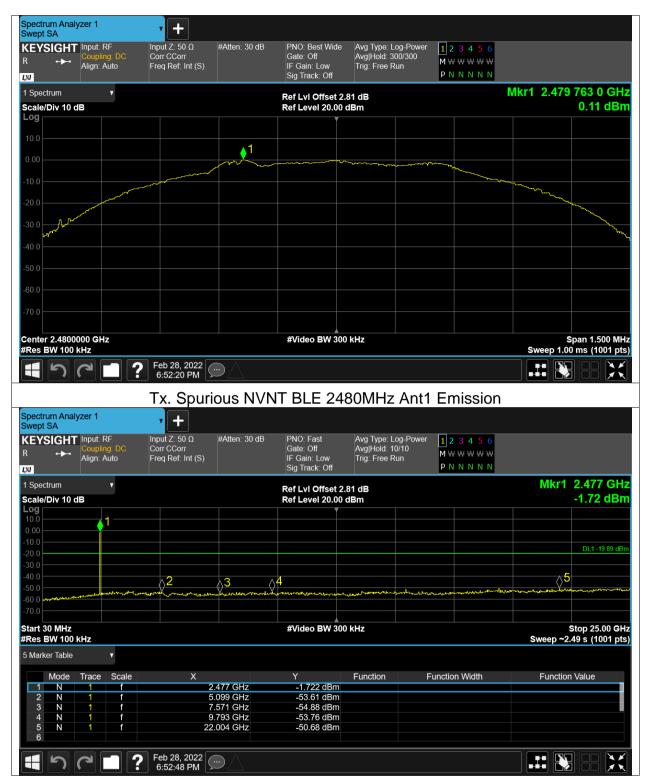
















Appendix B – BLE-2M PHY Maximum Conducted Output Power

								
Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	0.985	0	0.985	30	Pass
NVNT	BLE	2442	Ant1	1.012	0	1.012	30	Pass
NVNT	BLE	2480	Ant1	0.373	0	0.373	30	Pass













-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	1.178	0.5	Pass
NVNT	BLE	2442	Ant1	1.179	0.5	Pass
NVNT	BLE	2480	Ant1	1.161	0.5	Pass