

Report No.: SEWM2207000107RG08

Rev.: 01

Page: 1 of 29

# TEST REPORT

**Application No.:** SEWM2207000107RG  
**Applicant:** Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**Address of Applicant:** Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone  
**Manufacturer:** Lenovo PC HK Limited  
**Address of Manufacturer:** 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China  
**EUT Description:** Portable Tablet Computer  
**Model No.:** TB350FU  
**Trade Mark:** Lenovo  
**FCC ID:** O57TB350FU  
**Standard(s):** FCC 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2022/07/11  
**Date of Test:** 2022/07/31 to 2022/08/02  
**Date of Issue:** 2022/08/16

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun  
Wireless Laboratory Manager



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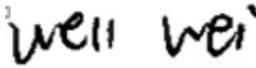
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/08/16		Original

<b>Prepared By</b>		 <hr/> (King-p Li) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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## 1 General Information

EUT Description:	Portable Tablet Computer		
Model No.:	TB350FU		
Trade Mark:	Lenovo		
Hardware Version:	TB350FU		
Software Version:	TB350FU_RF01_220729		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	Wi-Fi 6E	5945~7125	5945~7125
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

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**Accessory:**

Adapter no.	Model no.	Manufacturer
1	MC-201	20W charger US Chenyang-MS
2	MC-201	20W charger US Acbel+iWatt

USB cable no.	Model no.	Manufacturer
1	L63B-053000120	Yuekai (One For)
2	KH-1200158	KINGHOME (Second supply)

Battery no.	Model no.	Manufacturer
1	Battery Model: L20D2P32 Rated capacity:7500mAh/29.0Wh	Ningde Amperex Technology Limited (One For)
2		Sunwoda Electronic Co., Ltd. (Second supply)

Pen	Model no.	Manufacturer
1	LP-151	Lenovo (One For)
2	LP-251	Lenovo (Second supply)

Cradle	Model no.	Manufacturer
1	Lenovo CR-421	Lenovo

Keyboard	Model no.	Manufacturer
1	KB565U	Lenovo



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### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

### 1.3 Test Facility

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

<p>• <b>A2LA (Certificate No. 6336.01)</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.</p> <p>• <b>Innovation, Science and Economic Development Canada</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.                  CAB identifier: CN0120.                  IC#: 27594.</p> <p>• <b>FCC –Designation Number: CN1312</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.                  Designation Number: CN1312.                  Test Firm Registration Number: 717327</p>
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### 1.4 Deviation from Standards

None

### 1.5 Abnormalities from Standard Conditions

None



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## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBμV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

#### 2.1.1 E.U.T. Operation

Operating Environment:

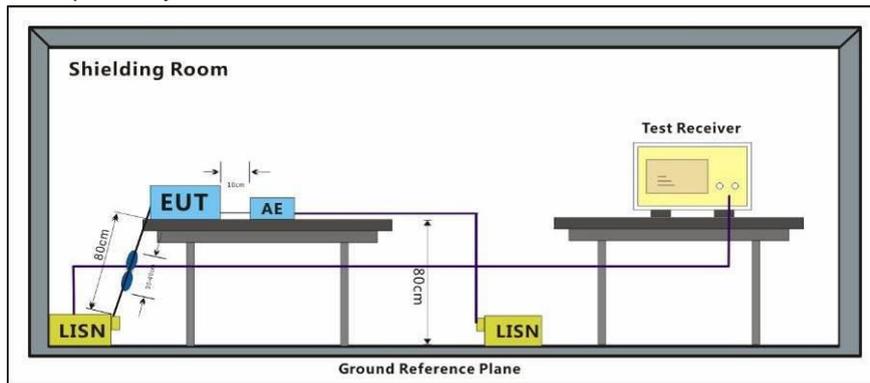
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	<p>a: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Camera(Rear)+Basse brachet</p> <p>b: EUT1: adapter(1)+usb Cable(1)+Pen+BT+5GWLAN +Camera(Front)+Basse brachet</p> <p>c: EUT1: adapter(1)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet</p> <p>d: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Basse brachet</p> <p>e: EUT1: adapter(1)+usb Cable(2)+Pen+BT+5GWLAN +MP4+Basse brachet</p> <p>f: EUT1: adapter(2)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet</p> <p>g: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Key board</p> <p>h: EUT2: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>i: EUT3: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>j: EUT4: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>k: EUT1: Transfer data between the EUT and the PC+USB cable1</p> <p>l: EUT2: Transfer data between the EUT and the PC+USB cable1</p> <p>m: EUT3: Transfer data between the EUT and the PC+USB cable1</p> <p>n: EUT4: Transfer data between the EUT and the PC+USB cable1</p>
The worst case for final test:	<p>d: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Basse brachet</p> <p>l: EUT2: Transfer data between the EUT and the PC+USB cable1</p>



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**2.1.2 Test Setup Procedures**

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



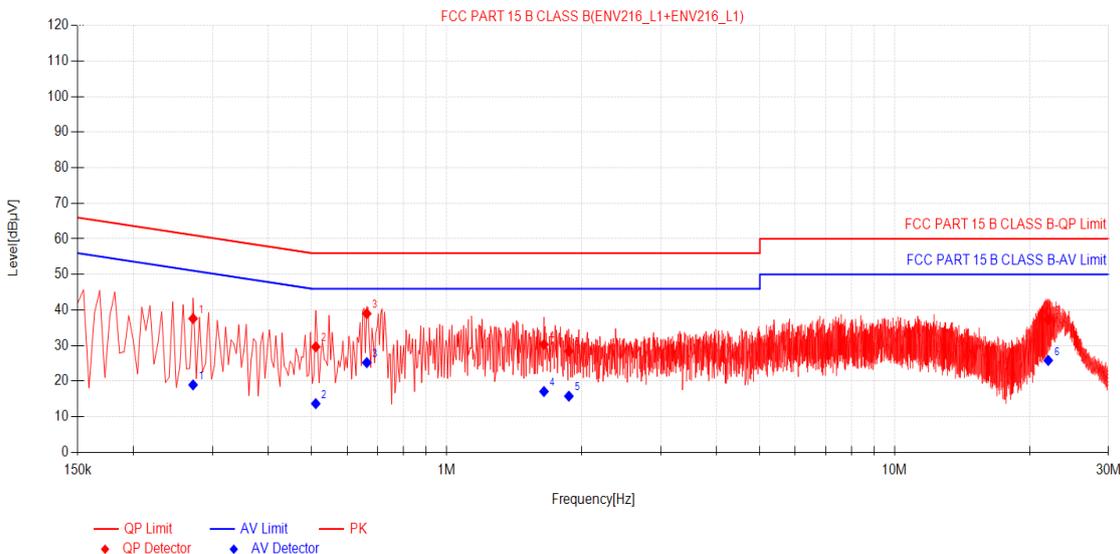
**2.1.3 Measurement Data**

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Final Test Mode:	Mode d	Phase:	Line
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2715	10.73	26.86	37.59	61.07	23.48	8.22	18.95	51.07	32.12	PASS
2	0.5100	10.61	19.04	29.65	56.00	26.35	3.07	13.68	46.00	32.32	PASS
3	0.6630	10.56	28.42	38.98	56.00	17.02	14.65	25.21	46.00	20.79	PASS
4	1.6485	10.75	19.58	30.33	56.00	25.67	6.35	17.10	46.00	28.90	PASS
5	1.8735	10.71	17.74	28.45	56.00	27.55	5.07	15.78	46.00	30.22	PASS
6	22.0200	10.36	26.91	37.27	60.00	22.73	15.48	25.84	50.00	24.16	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]

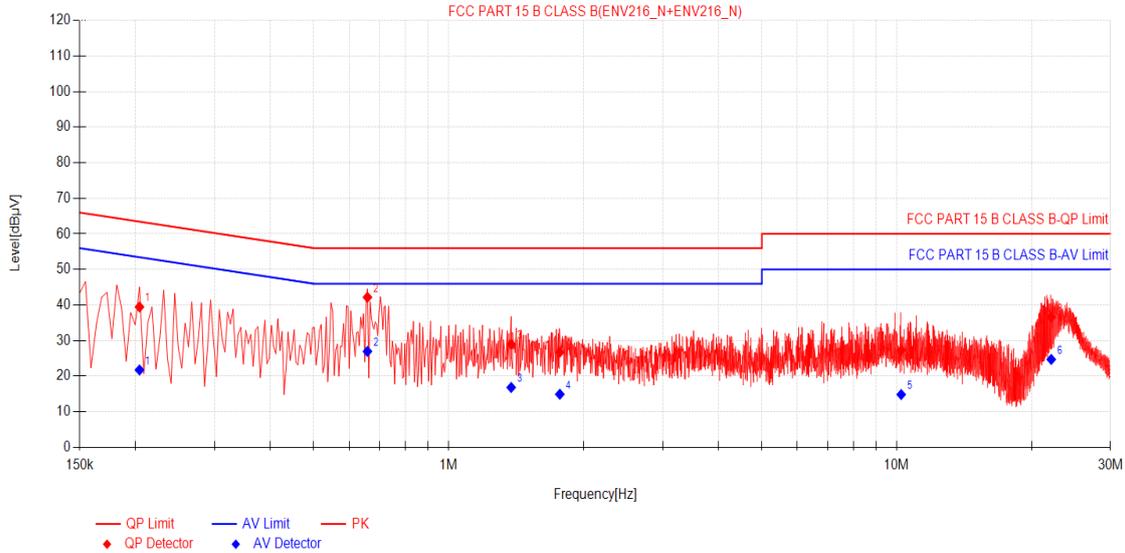


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Final Test Mode:	Mode d	Phase:	Neutral
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2040	10.67	28.80	39.47	63.45	23.98	11.08	21.75	53.45	31.70	PASS
2	0.6585	10.77	31.41	42.18	56.00	13.82	16.20	26.97	46.00	19.03	PASS
3	1.3785	10.77	18.23	29.00	56.00	27.00	6.06	16.83	46.00	29.17	PASS
4	1.7700	10.77	15.96	26.73	56.00	29.27	4.15	14.92	46.00	31.08	PASS
5	10.2345	10.67	16.64	27.31	60.00	32.69	4.17	14.84	50.00	35.16	PASS
6	22.1325	10.45	26.18	36.63	60.00	23.37	14.27	24.72	50.00	25.28	PASS

Remark:

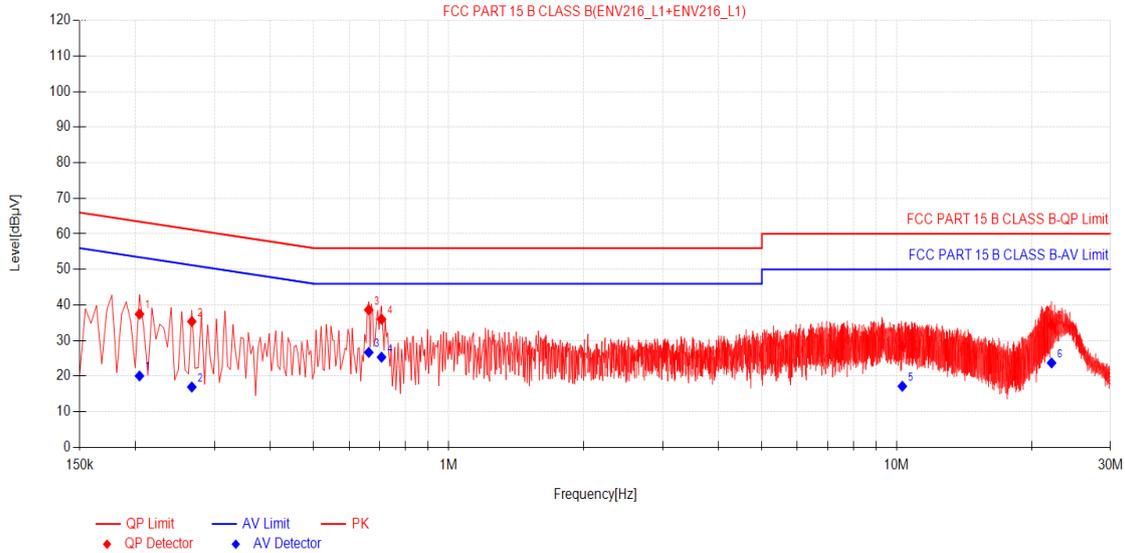
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode I	Phase:	Line
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2040	10.82	26.63	37.45	63.45	26.00	9.25	20.07	53.45	33.38	PASS
2	0.2670	10.74	24.63	35.37	61.21	25.84	6.21	16.95	51.21	34.26	PASS
3	0.6630	10.56	28.07	38.63	56.00	17.37	16.12	26.68	46.00	19.32	PASS
4	0.7080	10.57	25.43	36.00	56.00	20.00	14.77	25.34	46.00	20.66	PASS
5	10.2930	10.63	17.79	28.42	60.00	31.58	6.54	17.17	50.00	32.83	PASS
6	22.1730	10.36	24.07	34.43	60.00	25.57	13.36	23.72	50.00	26.28	PASS

Remark:

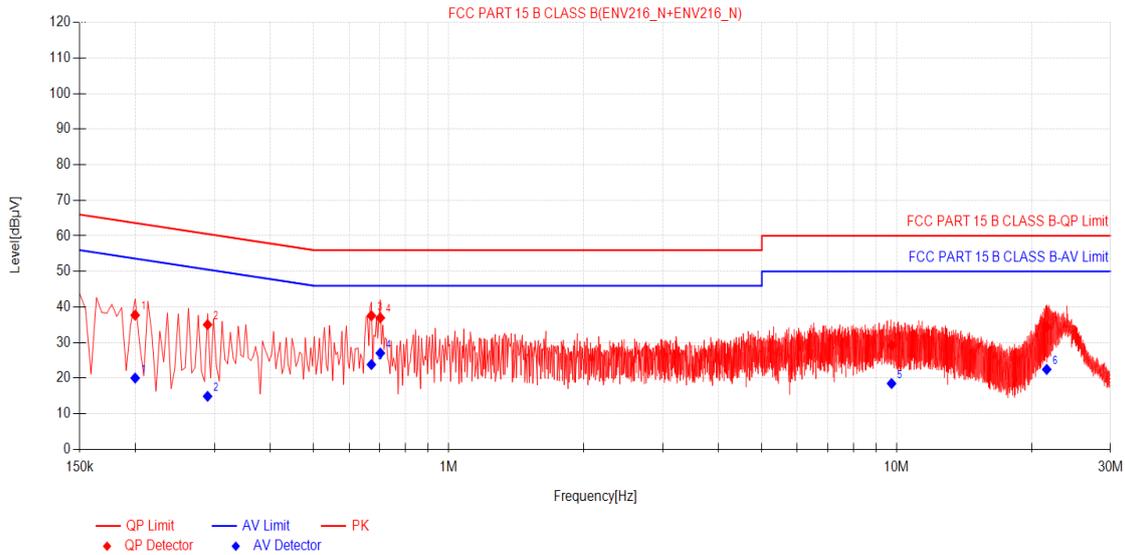
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode I	Phase:	Neutral
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	10.66	27.05	37.71	63.63	25.92	9.38	20.04	53.63	33.59	PASS
2	0.2895	10.74	24.31	35.05	60.54	25.49	4.16	14.90	50.54	35.64	PASS
3	0.6720	10.78	26.78	37.56	56.00	18.44	13.05	23.83	46.00	22.17	PASS
4	0.7035	10.81	26.15	36.96	56.00	19.04	16.24	27.05	46.00	18.95	PASS
5	9.7395	10.66	18.60	29.26	60.00	30.74	7.84	18.50	50.00	31.50	PASS
6	21.6240	10.43	23.99	34.42	60.00	25.58	12.04	22.47	50.00	27.53	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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**2.2 Radiated Emissions (30MHz-1GHz)**

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
Detector:	960MHz-1000MHz	54.0	Quasi-peak
	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

**2.2.1 E.U.T. Operation**

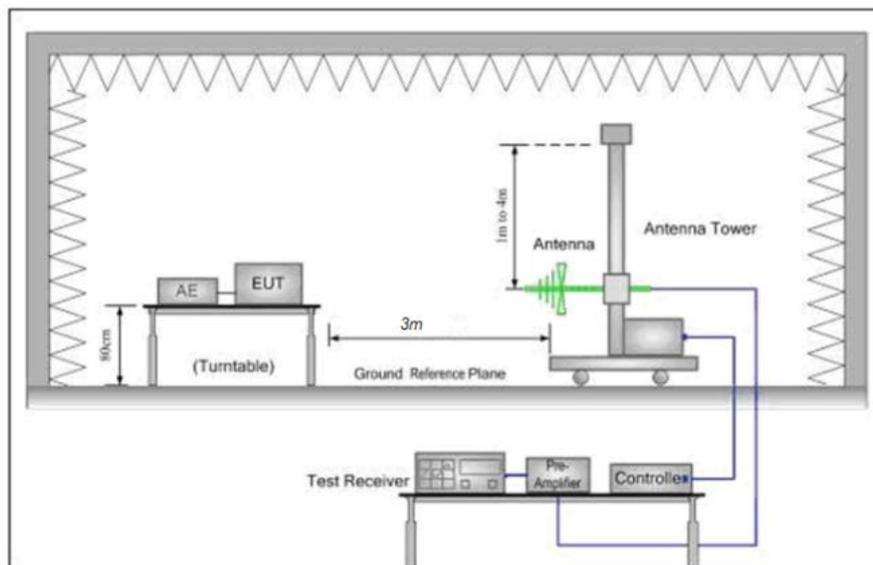
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Camera(Rear)+Basse brachet
	b: EUT1: adapter(1)+usb Cable(1)+Pen+BT+5GWLAN +Camera(Front)+Basse brachet
	c: EUT1: adapter(1)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet
	d: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Basse brachet
	e: EUT1: adapter(1)+usb Cable(2)+Pen+BT+5GWLAN +MP4+Basse brachet
	f: EUT1: adapter(2)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet
	g: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Key board
	h: EUT2: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet
	i: EUT3: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet
	j: EUT4: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet
	k: EUT1: Transfer data between the EUT and the PC+USB cable1
l: EUT2: Transfer data between the EUT and the PC+USB cable1	
m: EUT3: Transfer data between the EUT and the PC+USB cable1	
n: EUT4: Transfer data between the EUT and the PC+USB cable1	
The worst case for final test:	c: EUT1: adapter(1)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet l: EUT2: Transfer data between the EUT and the PC+USB cable1



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### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



### 2.2.3 Measurement Data

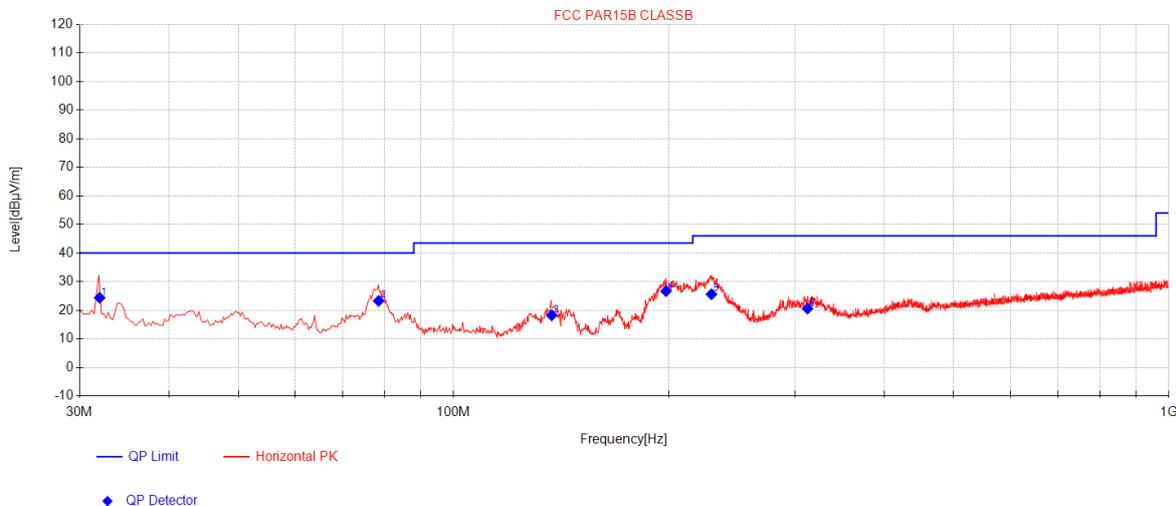
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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Final Test Mode:	Mode c	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.0089	42.38	10.46	-28.48	24.36	40.00	15.64	106	351	Horizontal
2	78.5790	43.91	7.26	-27.91	23.26	40.00	16.74	210	15	Horizontal
3	137.1446	37.66	7.71	-27.14	18.23	43.50	25.27	189	4	Horizontal
4	198.1673	43.32	10.41	-27.04	26.69	43.50	16.81	220	305	Horizontal
5	229.3882	40.38	11.74	-26.53	25.59	46.00	20.41	189	119	Horizontal
6	312.4631	33.48	13.60	-26.50	20.58	46.00	25.42	119	333	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]

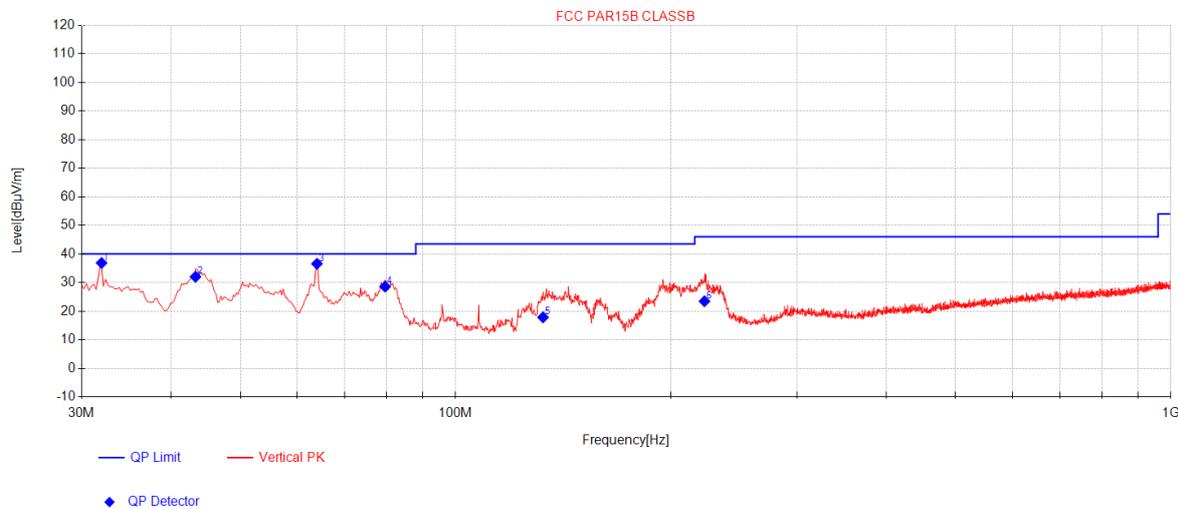


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 t (86-512) 62992980 sgs.china@sgs.com

Final Test Mode:	Mode c	Polarization:	Vertical
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.0008	54.86	10.46	-28.48	36.84	40.00	3.16	220	288	Vertical
2	43.2961	47.31	12.77	-28.06	32.02	40.00	7.98	106	294	Vertical
3	64.0055	53.89	10.33	-27.67	36.55	40.00	3.45	106	210	Vertical
4	79.7119	49.46	7.05	-27.93	28.58	40.00	11.42	112	97	Vertical
5	132.5123	36.97	8.02	-27.15	17.84	43.50	25.66	190	335	Vertical
6	222.8330	38.30	11.62	-26.46	23.46	46.00	22.54	105	337	Vertical

**Remark:**

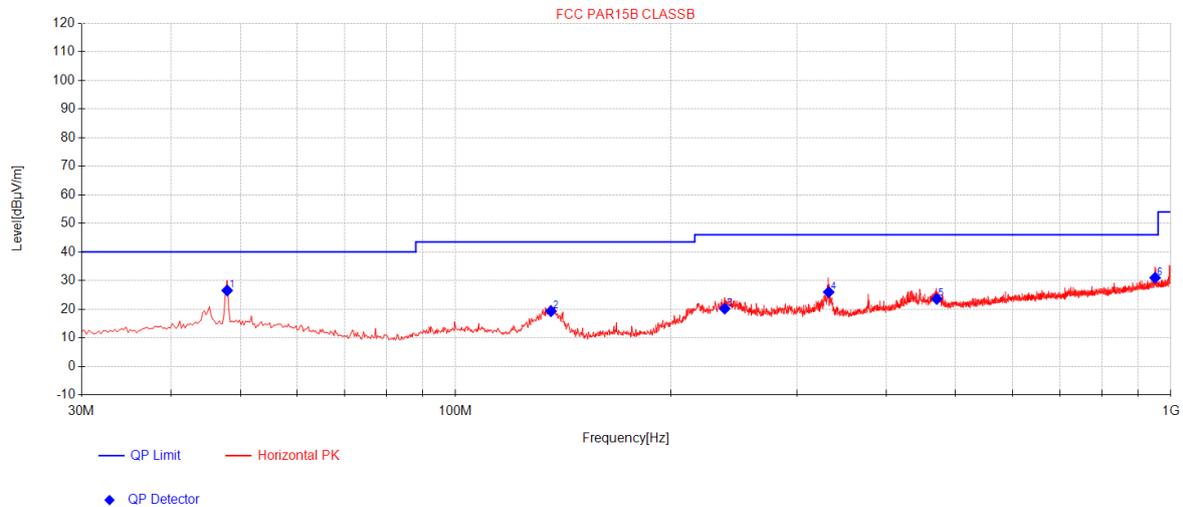
- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode I	Polarization:	Horizontal
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.945	41.03	13.51	-28.02	26.52	40.00	13.48	142	122	Horizontal
2	135.9725	38.65	7.78	-27.14	19.29	43.50	24.21	265	19	Horizontal
3	237.8225	34.65	11.80	-26.27	20.18	46.00	25.82	102	50	Horizontal
4	332.3975	37.68	14.07	-25.79	25.96	46.00	20.04	142	74	Horizontal
5	470.6225	32.06	16.29	-24.79	23.57	46.00	22.43	163	56	Horizontal
6	950.53	31.11	22.40	-22.55	30.96	46.00	15.04	244	22	Horizontal

**Remark:**

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]

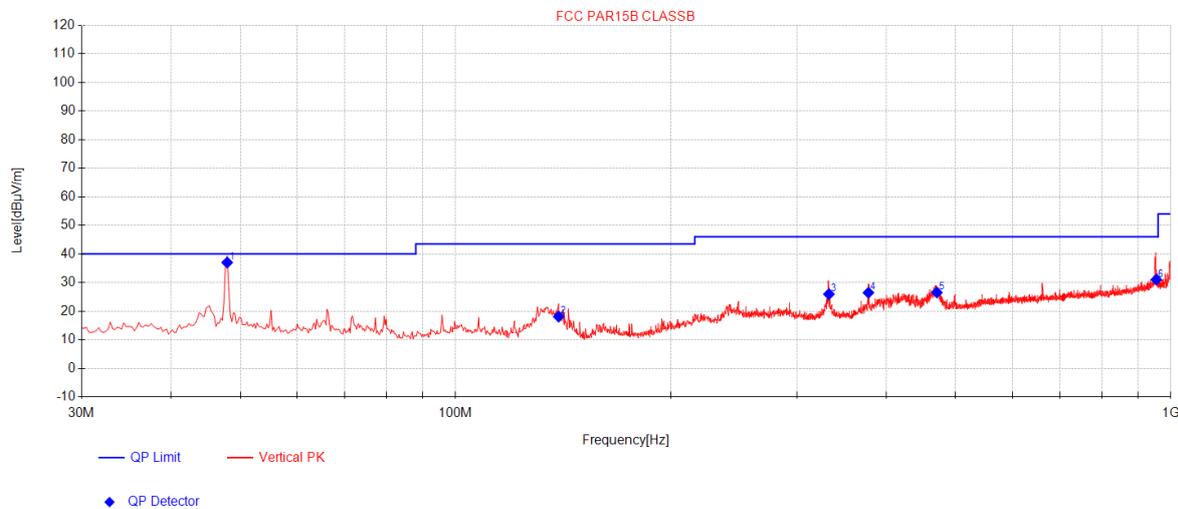


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 sgs.china@sgs.com

Final Test Mode:	Mode I	Polarization:	Vertical
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.945	51.5	13.51	-28.02	36.99	40.00	3.01	142	66	Vertical
2	139.3675	37.68	7.54	-27.14	18.08	43.50	25.42	186	340	Vertical
3	332.64	37.65	14.08	-25.79	25.94	46.00	20.06	263	49	Vertical
4	377.745	37.00	14.99	-25.53	26.45	46.00	19.55	266	360	Vertical
5	470.865	35.03	16.30	-24.79	26.54	46.00	19.46	201	0	Vertical
6	954.1675	31.26	22.40	-22.63	31.03	46.00	14.97	144	20	Vertical

Remark:

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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**2.3 Radiated Emissions (above 1GHz)**

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBµV/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

**2.3.1 E.U.T. Operation**

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	<p>a: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Camera(Rear)+Basse brachet</p> <p>b: EUT1: adapter(1)+usb Cable(1)+Pen+BT+5GWLAN +Camera(Front)+Basse brachet</p> <p>c: EUT1: adapter(1)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet</p> <p>d: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Basse brachet</p> <p>e: EUT1: adapter(1)+usb Cable(2)+Pen+BT+5GWLAN +MP4+Basse brachet</p> <p>f: EUT1: adapter(2)+usb Cable(1)+Pen+BT+WLAN 6e +MP4+Basse brachet</p> <p>g: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Key board</p> <p>h: EUT2: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>i: EUT3: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>j: EUT4: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +MP4+Basse brachet</p> <p>k: EUT1: Transfer data between the EUT and the PC+USB cable1</p> <p>l: EUT2: Transfer data between the EUT and the PC+USB cable1</p> <p>m: EUT3: Transfer data between the EUT and the PC+USB cable1</p> <p>n: EUT4: Transfer data between the EUT and the PC+USB cable1</p>
The worst case for final test:	<p>a: EUT1: adapter(1)+usb Cable(1)+Pen+BT+2.4GWLAN +Camera(Rear)+Basse brachet</p> <p>l: EUT2: Transfer data between the EUT and the PC+USB cable1</p>

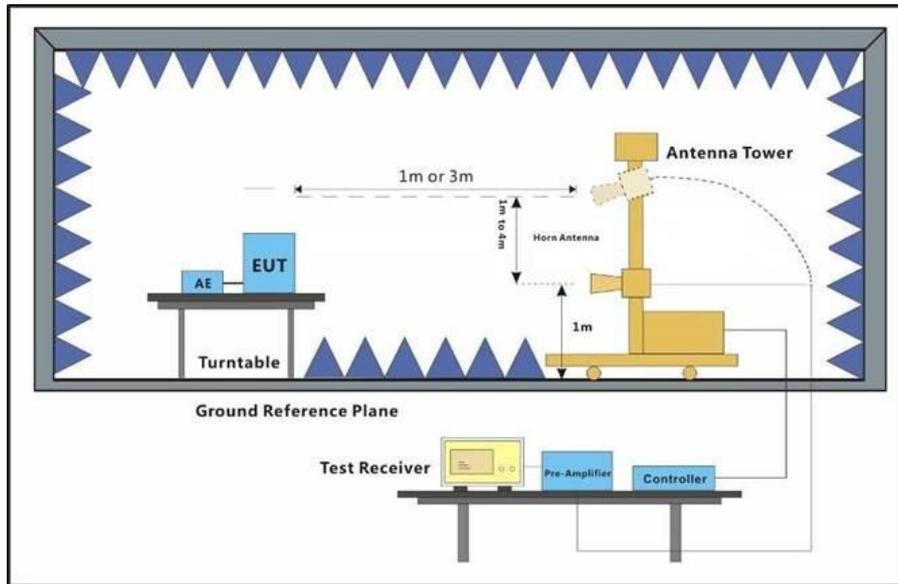


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### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation  
(Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .



### 2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

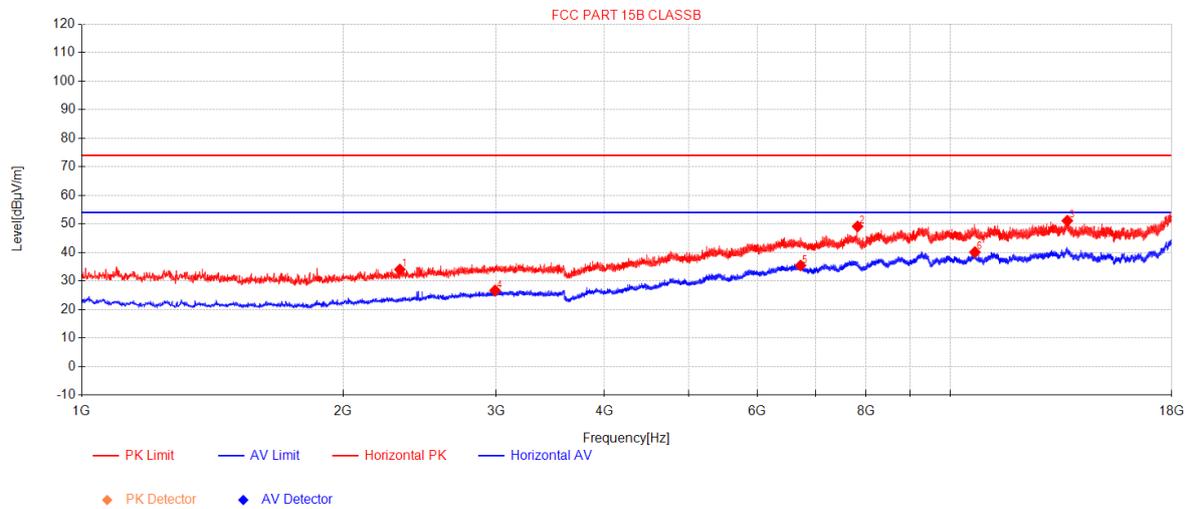
The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed.

Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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Final Test Mode:	Mode a	Polarization:	Horizontal
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Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2325.15	54.07	27.55	34.00	-47.62	74.00	40.00	163	302	Horizontal
2	7823.8	52.71	37.15	49.08	-40.78	74.00	24.92	254	0	Horizontal
3	13644.6	45.70	39.99	51.07	-34.61	74.00	22.93	178	170	Horizontal
4	2992.4	43.57	29.57	26.64	-46.50	54.00	27.36	263	1	Horizontal
5	6726.45	42.56	35.65	35.39	-42.82	54.00	18.61	265	190	Horizontal
6	10679.8	36.80	39.25	40.07	-35.97	54.00	13.93	298	246	Horizontal

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]

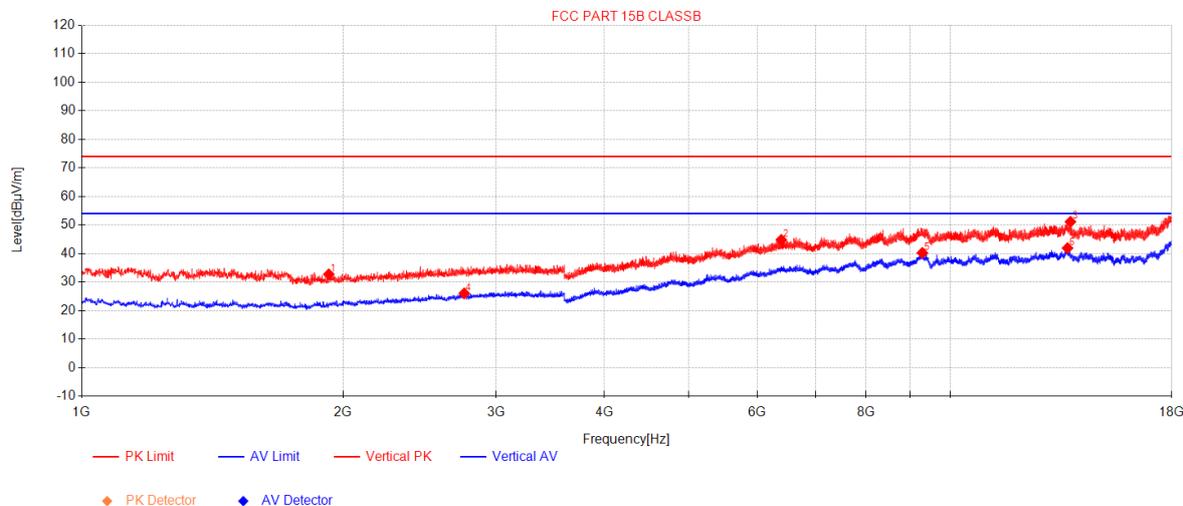


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t (86-512) 62992980 www.sgs.com.cn  
 s (86-512) 62992980 sgs.china@sgs.com

Final Test Mode:	Mode a	Polarization:	Vertical
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1925.65	54.40	26.38	32.68	-48.10	74.00	41.32	142	20	Vertical
2	6390.7	52.54	34.98	44.75	-42.77	74.00	29.25	286	56	Vertical
3	13757.65	46.28	40.05	51.09	-35.25	74.00	22.91	265	187	Vertical
4	2757.8	44.06	28.78	26.00	-46.84	54.00	28.00	241	338	Vertical
5	9289.2	39.90	38.57	40.18	-38.29	54.00	13.82	214	360	Vertical
6	13652.25	36.53	39.99	41.87	-34.65	54.00	12.13	263	112	Vertical

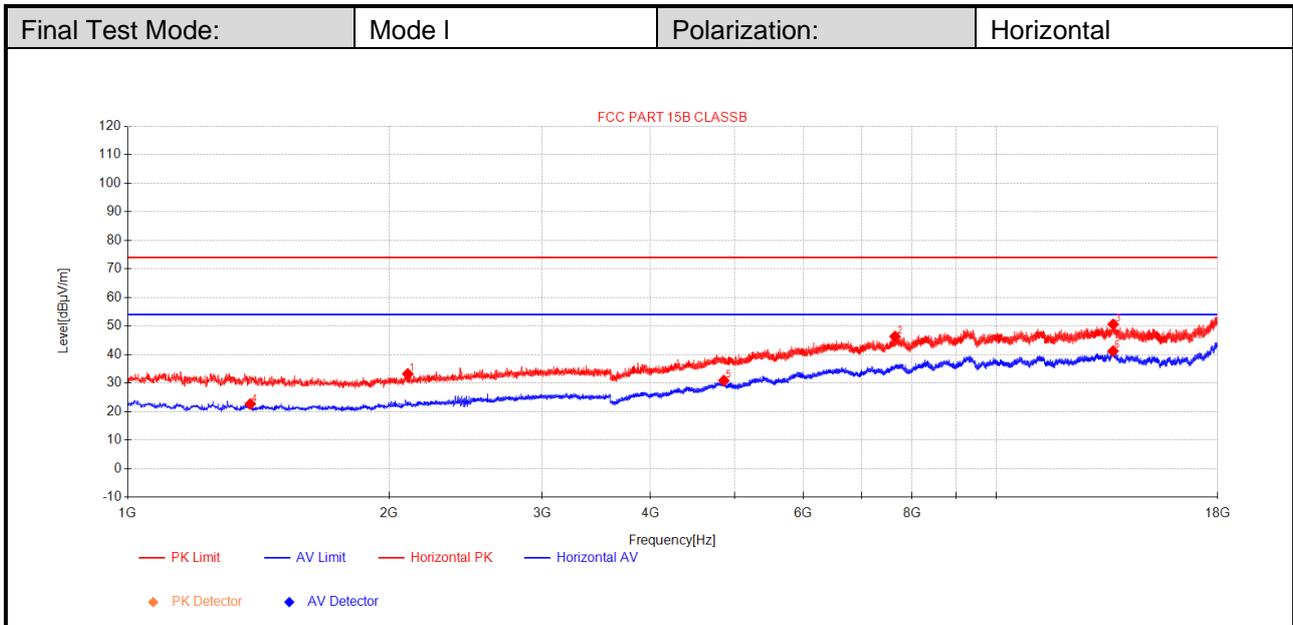
Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2101.6	53.95	27.10	33.18	-47.88	74.00	40.82	142	76	Horizontal
2	7649.55	50.95	36.80	46.28	-41.47	74.00	27.72	286	360	Horizontal
3	13639.5	45.14	39.98	50.54	-34.59	74.00	23.46	263	318	Horizontal
4	1384.2	45.95	25.43	22.64	-48.74	54.00	31.36	251	359	Horizontal
5	4858.15	43.49	32.26	30.83	-44.92	54.00	23.17	142	95	Horizontal
6	13635.25	35.77	39.98	41.19	-34.56	54.00	12.81	298	263	Horizontal

**Remark:**

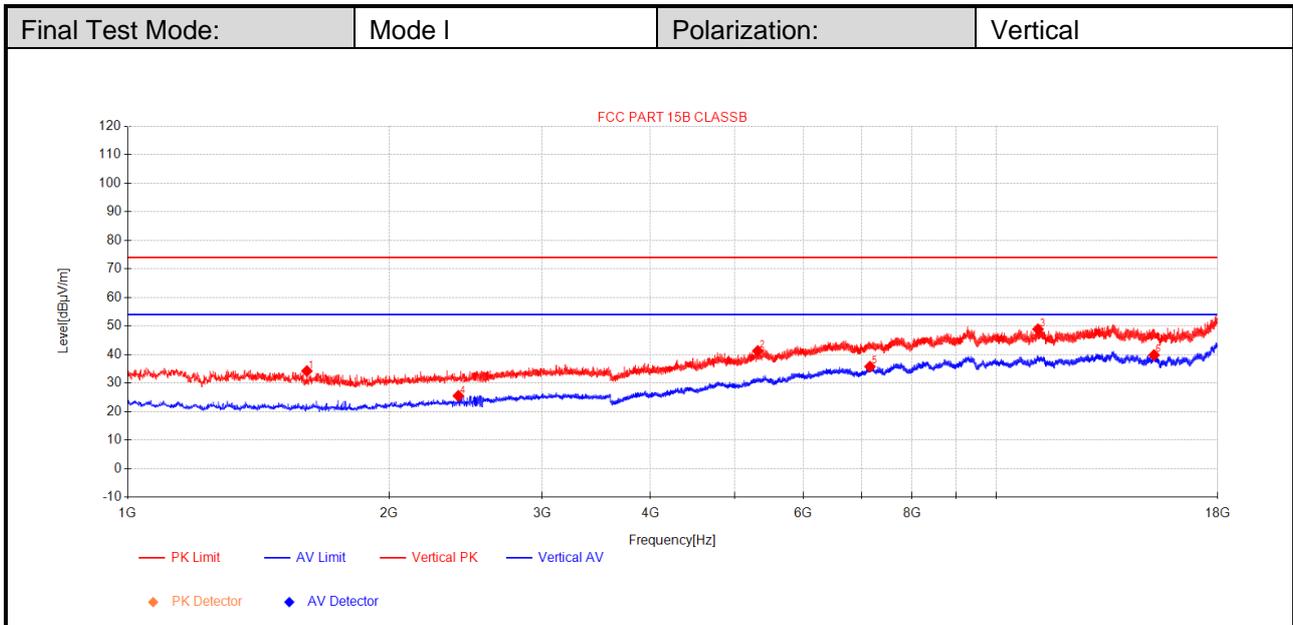
1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:
  - AF = Antenna Factor(dB/m)
  - Factor = Cable Factor(dB) - Preamplifier gain(dB)
  - Margin = Limit[dBµV/m] – Level[dBµV/m]



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1608.6	57.09	25.60	34.19	-48.50	74.00	39.81	142	302	Vertical
2	5315.45	52.75	32.60	41.21	-44.14	74.00	32.79	266	284	Vertical
3	11174.5	44.81	39.43	48.83	-35.40	74.00	25.17	263	266	Vertical
4	2403.35	45.35	27.71	25.50	-47.56	54.00	28.50	255	248	Vertical
5	7157.4	41.70	36.29	35.73	-42.26	54.00	18.27	142	211	Vertical
6	15200.1	33.59	38.94	39.79	-32.74	54.00	14.21	288	117	Vertical

**Remark:**

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:
  - AF = Antenna Factor(dB/m)
  - Factor = Cable Factor(dB) - Preamplifier gain(dB)
  - Margin = Limit[dBµV/m] – Level[dBµV/m]



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### 3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR



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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com