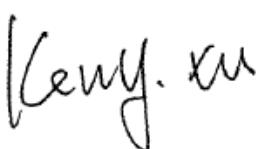


**TEST REPORT**

**Application No.:** SZEM2007006118CR  
**Applicant:** Jing Mold Electronic Technology (Shen Zhen) Co., Ltd.  
**Address of Applicant:** Xinqiao, 3rd Industrial Estate Shajing Baoan, ShenZhen, China  
**Manufacturer:** Lenovo PC HK Limited  
**Address of Manufacturer:** 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China  
**Factory:** Jing Mold Electronic Technology (Shen Zhen) Co., Ltd.  
**Address of Factory:** Xinqiao, 3rd Industrial Estate Shajing Baoan, ShenZhen, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Folio BT Keyboard  
**Model No.:** KB-X0256  
**Trade Mark:** Lenovo  
**FCC ID:** FPWKB-X0256  
**Standard(s) :** FCC CFR Title 47 Part 15 Subpart B  
ANSI C63.4-2014  
**Date of Receipt:** 2020-07-07  
**Date of Test:** 2020-08-07 to 2020-08-08  
**Date of Issue:** 2020-08-13

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
EMC Laboratory Manager



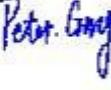
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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-08-13		Original

<b>Authorized for issue by:</b>			
		 Peter Geng	
		<b>Peter Geng /Project Engineer</b>	
		 Eric Fu	
		<b>Eric Fu /Reviewer</b>	

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## 2 Test Summary

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

<b>Internal Source</b>	<b>Upper Frequency</b>
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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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply:	DC 3.7V rechargeable battery which charged from Type-C port or Micro-USB port
The highest frequency from internal source:	Below 108MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-10-EH	AA61904Q207433G
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
Type-C Cable	SGS	N/A	REF. No.SEA0705

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
3	Temperature test	± 1 °C
4	Humidity test	± 3%



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch  
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.  
Tel: +86 755 2601 2053 Fax: +86 755 2671 0594  
No tests were sub-contracted.

#### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

Radiated Emissions (30MHz-1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI receiver(3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

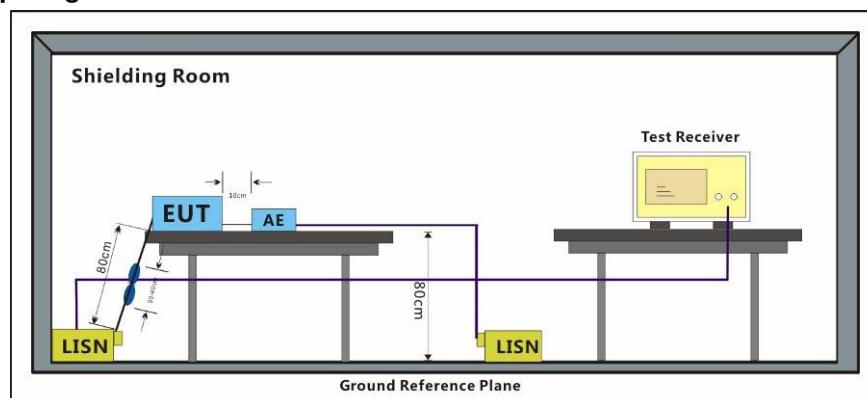
#### 2.1.1 E.U.T. Operation

##### Operating Environment:

Temperature:	25 °C	Humidity:	55 % RH	Atmospheric Pressure:	1010 mbar
Pretest these modes to find the worst case:	c: Charging mode(from Type C port)				
	d: Charging mode(from Micro USB port)				

The worst case for final test: c: Charging mode(from Type C port)

#### 2.1.2 Test Setup Diagram



#### 2.1.3 Measurement Data

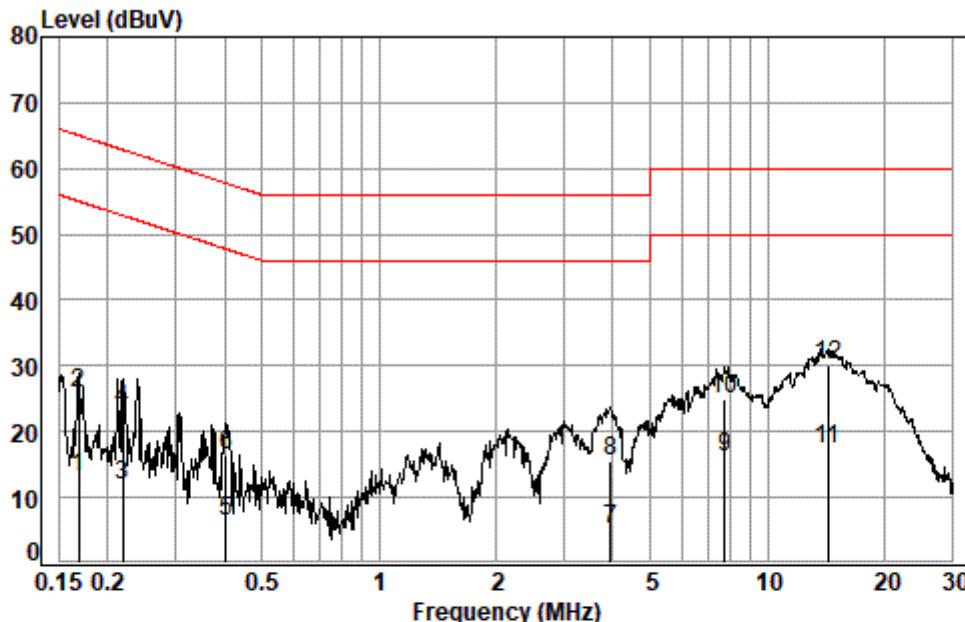
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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Mode:c; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 06118CR

Test mode: c

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dBuV	dBuV	dBuV	dB
1	0.1685	0.01	9.68	3.40	13.09	55.03 -41.94 Average
2	0.1685	0.01	9.68	16.02	25.71	65.03 -39.32 QP
3	0.2185	0.03	9.68	2.23	11.94	52.88 -40.94 Average
4	0.2185	0.03	9.68	13.59	23.30	62.88 -39.58 QP
5	0.4040	0.05	9.68	-3.37	6.36	47.77 -41.41 Average
6	0.4040	0.05	9.68	6.75	16.48	57.77 -41.29 QP
7	3.9430	0.16	9.79	-4.67	5.28	46.00 -40.72 Average
8	3.9430	0.16	9.79	5.65	15.60	56.00 -40.40 QP
9	7.7689	0.17	9.97	6.02	16.16	50.00 -33.84 Average
10	7.7689	0.17	9.97	14.92	25.06	60.00 -34.94 QP
11	14.2882	0.21	10.50	6.65	17.36	50.00 -32.64 Average
12	14.2882	0.21	10.50	19.30	30.01	60.00 -29.99 QP

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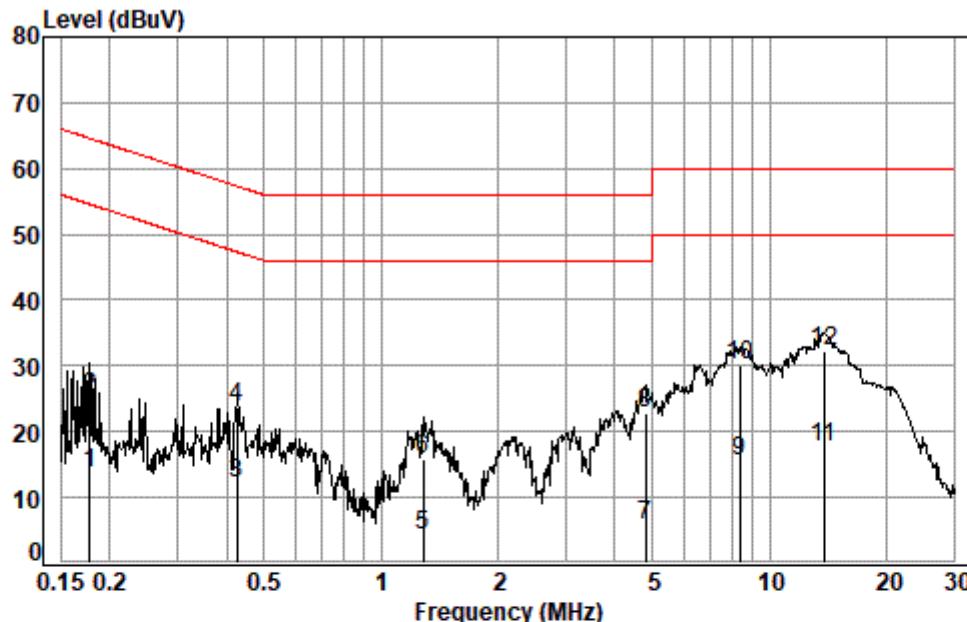
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Mode:c; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 06118CR  
Test mode: c

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dBuV	dBuV	dBuV	dB
1	0.1777	0.02	9.66	3.99	13.67	54.59 -40.92 Average
2	0.1777	0.02	9.66	15.64	25.32	64.59 -39.27 QP
3	0.4260	0.05	9.67	2.50	12.22	47.33 -35.11 Average
4	0.4260	0.05	9.67	14.01	23.73	57.33 -33.60 QP
5	1.2824	0.11	9.70	-5.54	4.27	46.00 -41.73 Average
6	1.2824	0.11	9.70	6.09	15.90	56.00 -40.10 QP
7	4.7969	0.17	9.83	-4.17	5.83	46.00 -40.17 Average
8	4.7969	0.17	9.83	12.89	22.89	56.00 -33.11 QP
9	8.4115	0.17	10.09	5.20	15.46	50.00 -34.54 Average
10	8.4115	0.17	10.09	19.82	30.08	60.00 -29.92 QP
11	13.8411	0.20	10.53	6.99	17.72	50.00 -32.28 Average
12	13.8411	0.20	10.53	21.53	32.26	60.00 -27.74 QP



## 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:

30MHz -88MHz 40(dB $\mu$ V/m) quasi-peak

88MHz-216MHz 43.5(dB $\mu$ V/m) quasi-peak

216MHz-960MHz 46(dB $\mu$ V/m) quasi-peak

960MHz-1000MHz 54(dB $\mu$ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 2.2.1 E.U.T. Operation

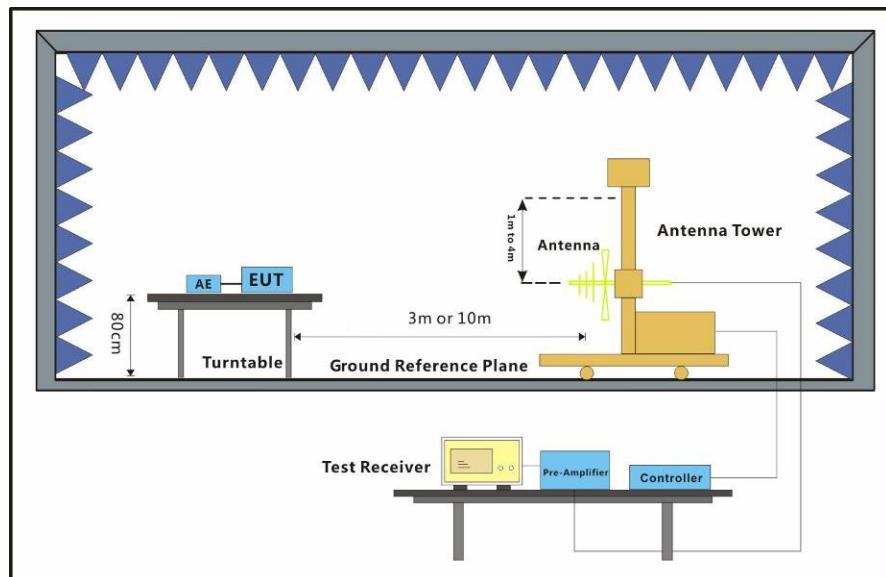
Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:  
c: Charging mode(from Type C port)  
d: Charging mode(from Micro USB port)

The worst case for final test:  
c: Charging mode(from Type C port)

### 2.2.2 Test Setup Diagram



### 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.



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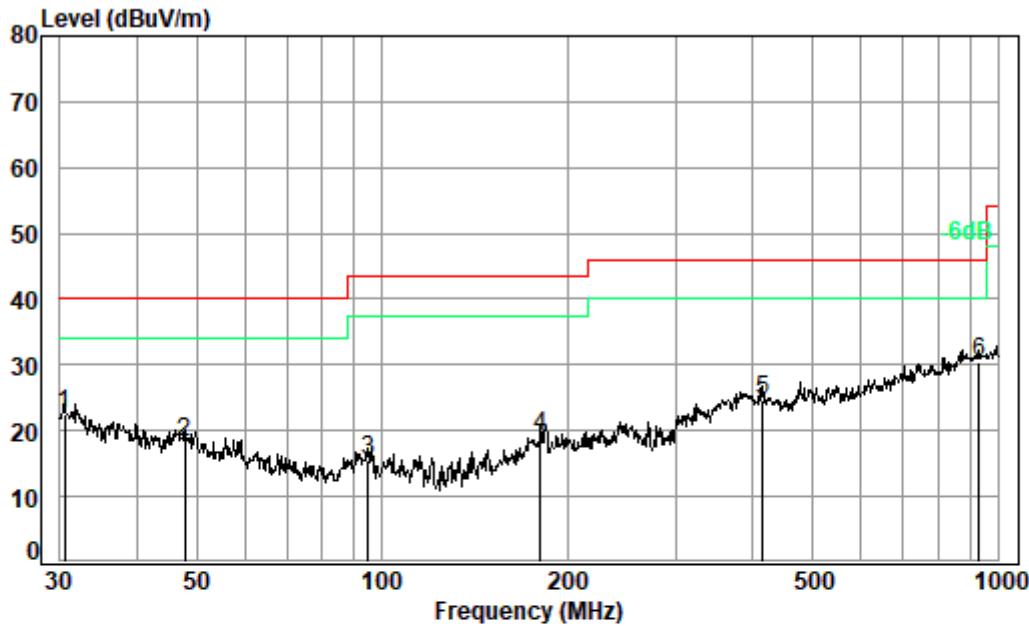
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 06118CR

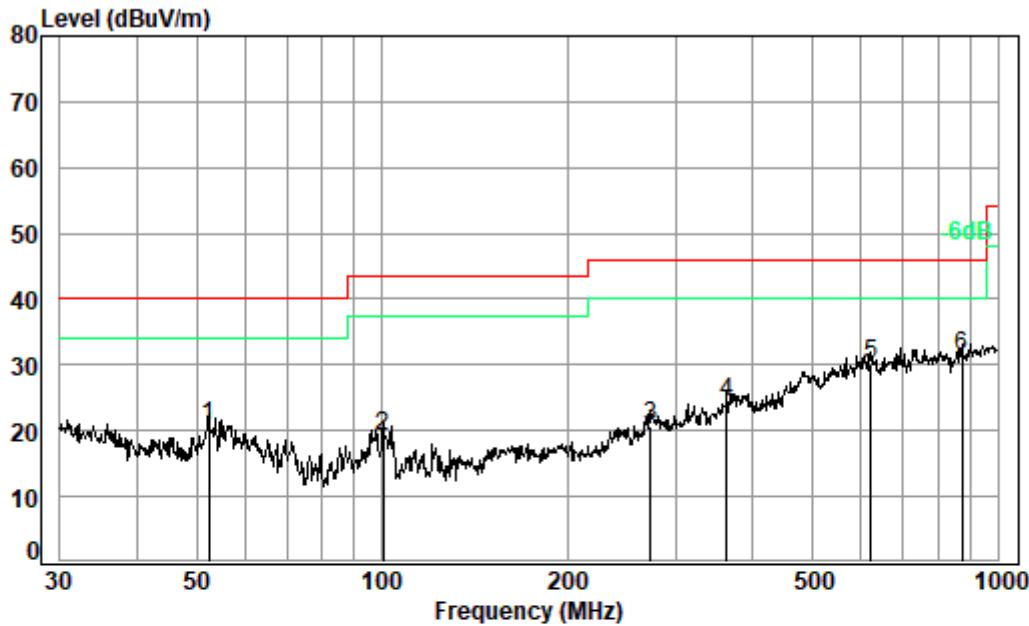
Test Mode: c

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.53	0.61	22.59	27.73	27.07	22.54	40.00	-17.46 QP
2	47.83	0.70	14.69	27.69	30.41	18.11	40.00	-21.89 QP
3	95.09	1.20	13.66	27.62	28.19	15.43	43.50	-28.07 QP
4	180.65	1.19	15.41	27.21	29.65	19.04	43.50	-24.46 QP
5	414.72	2.33	21.79	27.46	27.99	24.65	46.00	-21.35 QP
6 pp	932.27	3.53	29.20	27.00	24.57	30.30	46.00	-15.70 QP

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Mode:c; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 06118CR

Test Mode: c

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	52.39	0.73	13.50	27.68	34.08	20.63	40.00 -19.37 QP
2	100.58	1.10	13.98	27.61	31.82	19.29	43.50 -24.21 QP
3	273.23	1.82	18.53	26.93	27.37	20.79	46.00 -25.21 QP
4	362.98	2.20	21.85	27.22	27.48	24.31	46.00 -21.69 QP
5	622.89	2.75	26.64	28.08	28.75	30.06	46.00 -15.94 QP
6 pp	875.25	3.45	28.94	27.30	26.13	31.22	46.00 -14.78 QP

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## 3 Photographs

### 3.1 Test Setup

Please refer to setup photo.

### 3.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -



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