

EMC TEST REPORT

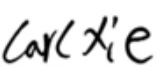
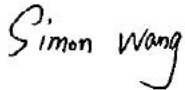
Applicant:	SHARP CORPORATION
Address:	2-1-25, Kyutaromachi, Chuo-ku, Osaka city, Osaka 541-8522, JAPAN

Manufacturer or Supplier:	SHARP CORPORATION
Address:	2-1-25, Kyutaromachi, Chuo-ku, Osaka city, Osaka 541-8522, JAPAN
Product:	Smart Phone
FCC ID:	APYHRO00341
Date of tests:	March.20, 2026~ April. 27, 2026

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- ☐ FCC Part 15, Subpart B, Class A
☒ FCC Part 15, Subpart B, Class B
☒ ANSI C63.4:2014

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: April. 27, 2026	Date: April. 27, 2026

boomwave est (henzhen) o., td. tested the above equipment in accordance with the requirements set forth in the above standards. he test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. he results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. it is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. If sample tested were in good operating condition throughout the entire test program. easurement ncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of boomwave est (henzhen) o., td., the test report shall not be reproduced except in full.

TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1 GENERAL INFORMATION	4
1.1 GENERAL DESCRIPTION OF EUT.....	4
1.2 SUMMARY OF TEST RESULTS	6
1.3 MEASUREMENT UNCERTAINTY	7
1.4 DESCRIPTION OF TEST MODES.....	8
1.5 DESCRIPTION OF SUPPORT UNITS.....	9
2 EMISSION TEST	10
2.1 CONDUCTED EMISSION MEASUREMENT.....	10
2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	10
2.1.2 TEST INSTRUMENTS.....	11
2.1.3 TEST PROCEDURES	12
2.1.4 DEVIATION FROM TEST STANDARD	12
2.1.5 TEST SETUP.....	12
2.1.6 EUT OPERATING CONDITIONS	13
2.1.7 TEST RESULTS	14
2.2 RADIATED EMISSION MEASUREMENT.....	17
2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
2.2.2 TEST INSTRUMENTS.....	18
2.2.3 TEST PROCEDURE.....	19
2.2.4 DEVIATION FROM TEST STANDARD	20
2.2.5 TEST SETUP.....	21
2.2.6 EUT OPERATING CONDITIONS	21
2.2.7 TEST RESULTS	22
3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	26



Test Report No.: EMC260330B001

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
EMC260330B001	Original release	April. 27, 2026

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone	
NOMINAL VOLTAGE	DC 4V	
OPERATING FREQUENCY	WLAN	2.412GHz~2.462GHz/5.15-5.25GHz/5.25G-5.35G/5.4G-5.725G/5.725GHz-5.85GHz
	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	NFC	13.56 MHz
	GPS/GALILEO/GLO NASS/BDS	1559MHz ~ 1610MHz
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)
	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 1712.4MHz ~ 1752.6MHz(FOR WCDMA Band 4) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13) 706.5MHz ~ 713.5MHz (FOR LTE Band17) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38) 2498.5MHz ~2687.5MHz (FOR LTE Band41) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66)
OPERATING FREQUENCY	5G NR	NSA: DC_66A_n5A DC_66A_n41A DC_13A_n66A
HW VERSION	DVT	
SW VERSION	A3100	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
ACCESSORY DEVICES	Refer to note as below	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

Test Report No.: EMC260330B001

2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

AE (Auxiliary Equipment) 1#: Laptop

Manufacturer	Lenovo
Model Number	E470c
S/N	PF10VBX6

AE (Auxiliary Equipment) 2#: battery

Manufacturer	EVE ENERGY CO., LTD
Model Number	UBATIA330AFN2
type	Li-Lon

AE (Auxiliary Equipment) 3#: Charger

Manufacturer	DVE
Model Number	DSA-10PF06-05 FUS

AE (Auxiliary Equipment) 4#: cable

Manufacturer	Kingpower
Model Number	K201-05130-00

multi-vender as follow

	(UFS:256GB / DDR:12GB)		(UFS:256GB+512GB / DDR:12GB)	
	Combination A	Combination B	Combination C	Combination D
UFS	SAMSUNG	KIOXIA	SAMSUNG	
	KLJEG4RHKF-F0H1	THGJFRT1E45BATV	KLJFG8RHKF-F0H1	
DDR	SAMSUNG	SK Hynix	SAMSUNG	SK Hynix
	K3KL4L40FM-BGCV	H58GG6AV9HX094	K3KL4L40FM-BGCV	H58GG6AV9HX094
Vibrator	Bluecomm	Partron	Partron	Bluecomm
	BVW0832H-N100	LV0832SI	LV0832SI	BVW0832H-N100

NOTE1:Sharp Corporation declares that this equipment is different on the supplier of the part above in the table. The relevant tests have been performed in order to verify in which combination case the EUT would have the worst features. The test shown in the report are performed when the EUT1 Working with AE1、AE2、AE3 and AE4.

Note2: AE4 was selected by testing laboratory and was only cooperated with this test, not for sale.



Test Report No.: EMC260330B001

1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B		
Standard Section	Test Item	Result
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test	Compliance
	Radiated Emission Test (30MHz ~ 1GHz)	Compliance
	Radiated Emission Test (Above 1GHz)	Compliance

*Test Lab Information Reference

Lab A:

Boomwave Test (Shenzhen) Co., Ltd.

Lab Address:

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

Accredited Test Lab Cert 7607.01

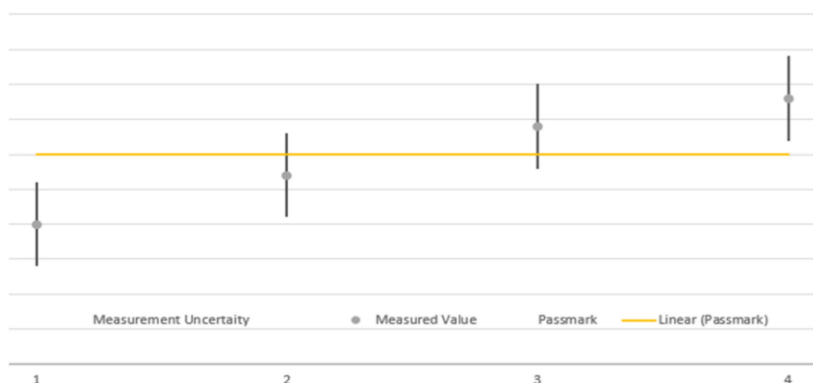
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
Radiated emissions	30MHz~1GHz	±4.98dB
	1GHz ~6GHz	±4.70dB
	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition
Radiated emission test	
1	Rear camera on + GSM/WCDMA/LTE/NR/BT/WLAN/NFC/GNSS receiver
2	Front camera on + GSM/WCDMA/LTE/NR/BT/WLAN/ NFC/GNSS receiver
3	USB copy(EUT with PC)
4	Mp4 + GSM/WCDMA/LTE/ NR/BT/WLAN/ NFC/GNSS receiver
5	Mp3 + GSM/WCDMA/LTE/ NR/BT/WLAN/ NFC/GNSS receiver

Conducted emission test	
1	Rear camera on + GSM/WCDMA/LTE/NR/BT/WLAN/NFC/GNSS receiver
2	Front camera on + GSM/WCDMA/LTE/NR/BT/WLAN/ NFC/GNSS receiver
3	USB copy(EUT with PC)
4	Mp4 + GSM/WCDMA/LTE/ NR/BT/WLAN/ NFC/GNSS receiver
5	Mp3 + GSM/WCDMA/LTE/ NR/BT/WLAN/ NFC/GNSS receiver

NOTE:

1. For conducted emission test, Pre-scan all mode, mode 1 and 3 was the worst case and only this mode was presented in this report.
2. For radiated emission test, Pre-scan all mode, test mode 1 and 3 was the worst case and only this mode was presented in this report



Test Report No.: EMC260330B001

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR ALL TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	---	---	---	---	---

2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 A CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 B CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



Test Report No.: EMC260330B001

2.1.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	2028.09.05	2023.09.06
2	ESW44 EMI test receiver	R&S	101574	2027.03.05	2026.03.06
3	ESR3 EMI test receiver	R&S	102361	2027.03.05	2026.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	2027.03.25	2022.03.26
5	VULB 9163 Ultra log test antenna	VULB9163	01793	2027.03.21	2025.03.22
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2027.09.01	2025.09.02
7	SAS-574 Horn Antenna	schwarzbeck	535	2027.06.20	2025.06.21
8	ENV216 AMN	R&S	101881	2026.06.19	2025.06.20
9	EMC32EMI test software	R&S	V10	-----	-----

NOTE: 1. The test was performed in CE shielded room.

2.1.3 TEST PROCEDURES

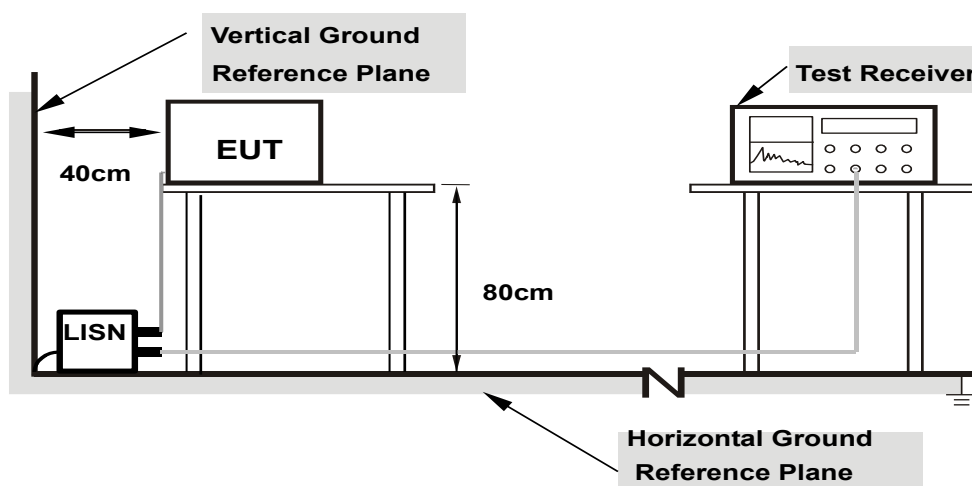
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



Test Report No.: EMC260330B001

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

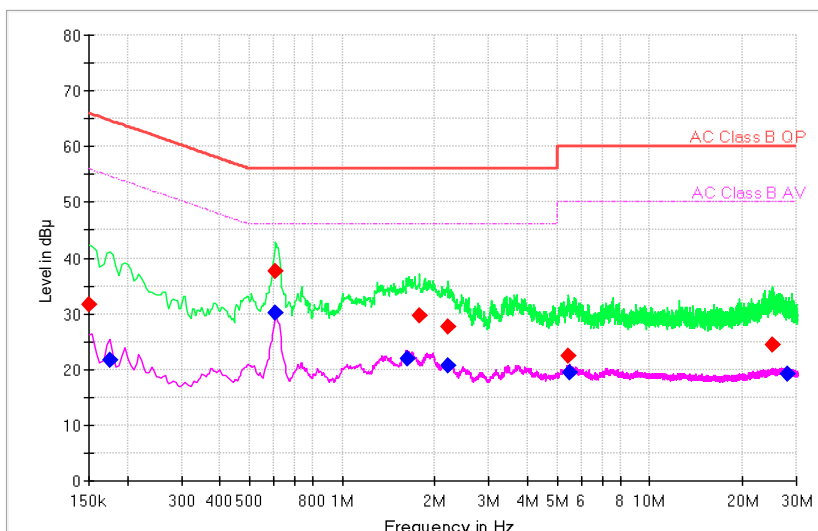
Test Report No.: EMC260330B001

2.1.7 TEST RESULTS

Mode1:

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.5deg. C, 40.3%RH	TESTED BY	Carl Xie

Full Spectrum



Pic1 Conducted emission L&N Line

Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.	Pmea QuasiPeak	Pmea Average
(MHz)	(dBμV)	(dBμV)	(dBμV)	(dB)		(dB)	(dBμV)	(dBμV)
0.15000	31.54	---	66.00	34.46	L1	29.90	1.64	---
0.17559	---	21.74	54.69	32.96	N	29.60	---	-7.86
0.60628	---	30.09	46.00	15.91	N	29.60	---	0.49
0.60628	37.67	---	56.00	18.33	L1	29.80	7.87	---
1.62971	---	21.89	46.00	24.11	N	29.60	---	-7.71
1.78749	29.55	---	56.00	26.45	L1	29.80	-0.25	---
2.19686	---	20.71	46.00	25.29	N	29.60	---	-8.89
2.21818	27.62	---	56.00	28.38	L1	29.80	-2.18	---
5.45477	22.44	---	60.00	37.56	N	29.70	-7.26	---
5.46756	---	19.54	50.00	30.46	L1	29.90	---	-10.36
25.12592	24.39	---	60.00	35.61	N	30.30	-5.91	---
27.88918	---	19.25	50.00	30.75	L1	30.60	---	-11.35

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Presult=Pmea+ Corr.(dB).Sample calculation: (31.54 dBμV) = (1.64 dBμV) + (29.9 dB), the corresponding frequency is 0.15MHz.

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

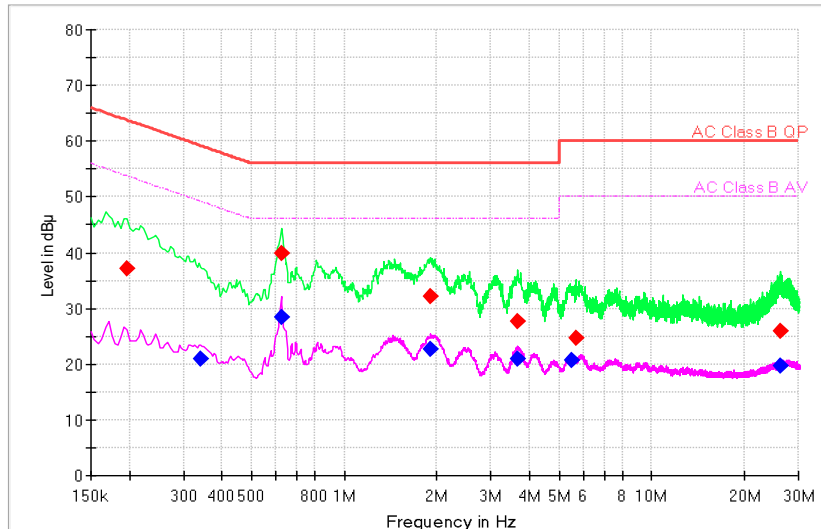
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th
Road, Chiwan Community, Zhaoshang Street, Nanshan
District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: EMC260330B001

TEST VOLTAGE	Input 240 Vac, 50 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.5deg. C, 40.3%RH	TESTED BY	Carl Xie

Full Spectrum



Pic2. Conducted emission L&N Line

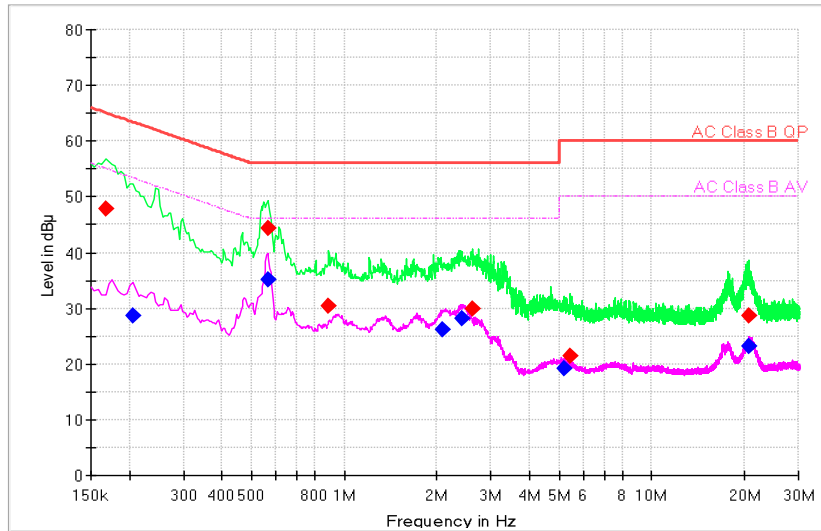
Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.	Pmea QuasiPeak	Pmea Average
(MHz)	(dBμV)	(dBμV)	(dBμV)	(dB)		(dB)	(dBμV)	(dBμV)
0.19691	37.03	---	63.74	26.71	L1	29.90	7.13	---
0.34189	---	20.96	49.16	28.20	N	29.60	---	-8.64
0.62334	---	28.36	46.00	17.64	N	29.60	---	-1.24
0.62760	39.90	---	56.00	16.10	N	29.60	10.30	---
1.90689	---	22.75	46.00	23.25	L1	29.80	---	-7.05
1.91115	32.03	---	56.00	23.97	L1	29.80	2.23	---
3.66804	---	20.99	46.00	25.01	N	29.60	---	-8.61
3.67230	27.60	---	56.00	28.40	L1	29.80	-2.20	---
5.48036	---	20.68	50.00	29.32	L1	29.90	---	-9.22
5.70210	24.64	---	60.00	35.36	N	29.70	-5.06	---
26.07686	25.85	---	60.00	34.15	N	30.30	-4.45	---
26.27728	---	19.71	50.00	30.29	L1	30.50	---	-10.79

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Presult=Pmea+ Corr.(dB).

Mode3:

TEST VOLTAGE	Input 240 Vac, 50Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.5deg. C, 40.3%RH	TESTED BY	Carl Xie

Full Spectrum



Pic1 Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.16706	47.93	---	65.11	17.17	L1	29.90	18.03	---
0.20544	---	28.56	53.39	24.83	L1	29.90	---	-1.34
0.56364	---	35.20	46.00	10.80	L1	29.80	---	5.40
0.56364	44.38	---	56.00	11.62	L1	29.80	14.58	---
0.89199	30.30	---	56.00	25.70	L1	29.80	0.50	---
2.09451	---	26.17	46.00	19.83	L1	29.80	---	-3.63
2.42286	---	28.24	46.00	17.76	L1	29.80	---	-1.56
2.61476	29.88	---	56.00	26.12	L1	29.80	0.08	---
5.21597	---	19.08	50.00	30.92	N	29.70	---	-10.62
5.40360	21.31	---	60.00	38.69	N	29.70	-8.39	---
20.66548	28.67	---	60.00	31.33	L1	30.30	-1.63	---
20.79341	---	23.27	50.00	26.73	L1	30.30	---	-7.03

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Presult=Pmea+ Corr.(dB).Sample calculation: (47.93 dBμV) = (18.03 dBμV) + (29.9dB), the corresponding frequency is 0.16706 MHz

2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dB μ V/m)		
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B
30-88	49	40
88-216	53.5	43.5
216-960	56	46
960-1000	59.5	54
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 4. QP detector shall be applied if not specified.



Test Report No.: EMC260330B001

2.2.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	2028.09.05	2023.09.06
2	ESW44 EMI test receiver	R&S	101574	2027.03.05	2026.03.06
3	ESR3 EMI test receiver	R&S	102361	2027.03.05	2026.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	2027.03.25	2022.03.26
5	VULB 9163 Ultra log test antenna	VULB9163	01793	2027.03.21	2025.03.22
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2027.09.01	2025.09.02
7	SAS-574 Horn Antenna	schwarzbeck	535	2027.06.20	2025.06.21
8	ENV216 AMN	R&S	101881	2026.06.19	2025.06.20
9	EMC32EMI test software	R&S	V10	-----	-----

NOTE: 1. The test was performed in 10m chamber.
2. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. $\text{Result} = P_{\text{mea}} + A_{\text{Rpl}}$.
3. $\text{ARpl (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$ (if the raw value not contains the amplifier);
4. $\text{ARpl (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$ (if the raw value contains the amplifier)

<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

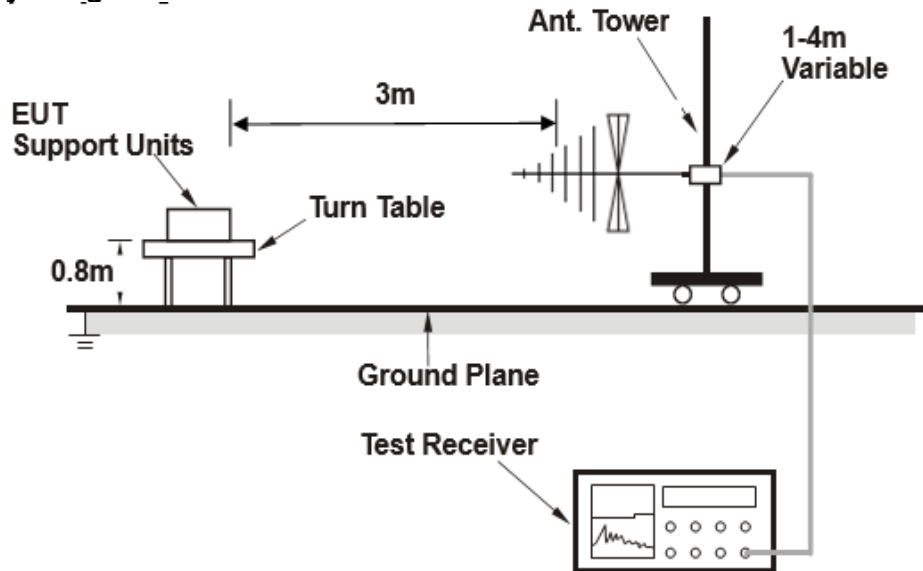
- . The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz.
- . For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- . $\text{Result} = P_{\text{mea}} + A_{\text{Rpl}}$.
- . $\text{ARpl (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$ (if the raw value not contains the amplifier);
- . $\text{ARpl (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$ (if the raw value contains the amplifier)

2.2.4 DEVIATION FROM TEST STANDARD

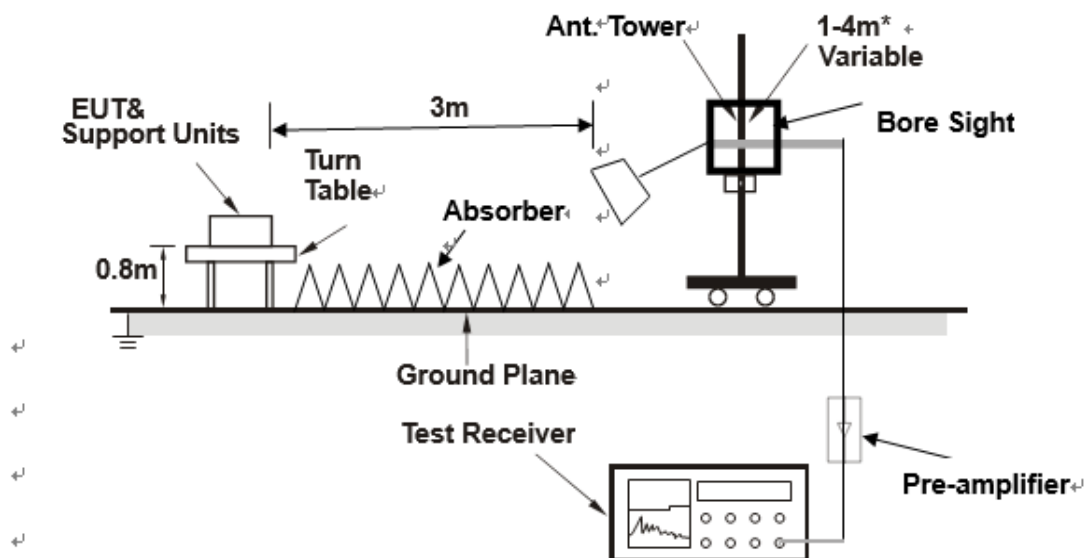
No deviation.

2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

2.2.7 TEST RESULTS

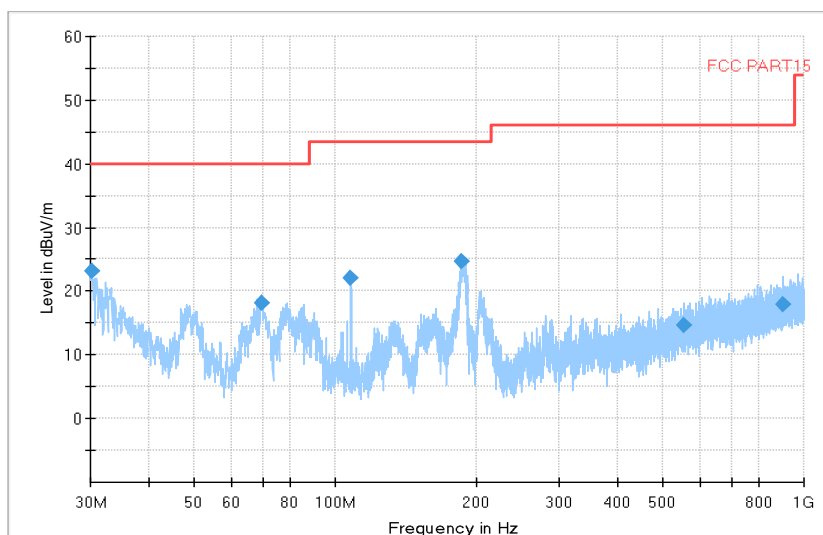
Note: For frequency above 18GHz, the emission was tested 20db below the limit so not recorded

mode1:

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	22.3deg. C, 40.6 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Carl Xie		

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
30.194	23.10	40.0	-19.2	42.30	V
69.6245	18.11	40.0	-19.6	37.71	V
107.843	22.07	43.5	-17.7	39.77	V
185.782	24.64	43.5	-18.2	42.84	V
552.83	14.62	46.0	-7.7	22.32	V
902.564	17.93	46.0	-2.2	20.13	V

Full Spectrum



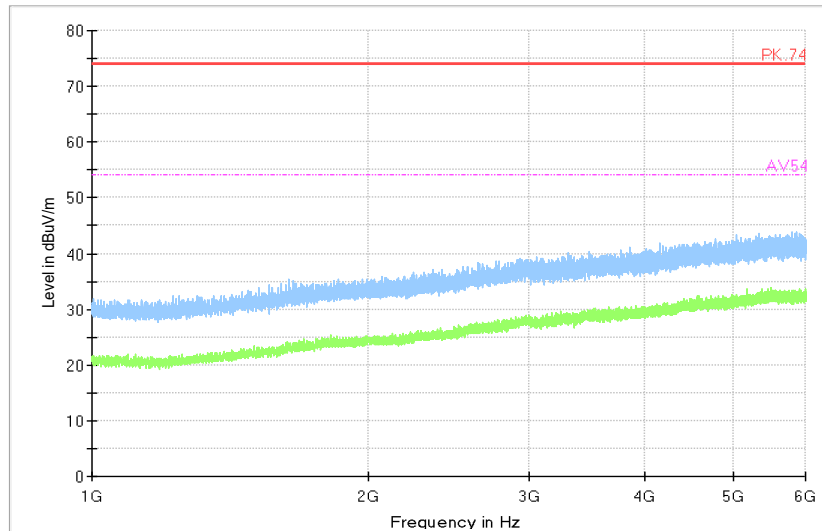
REMARKS: 1. Result= $P_{mea} + A_{Rpl}$.
 2. Sample calculation: $(23.1 \text{ dB } \mu \text{ V/m}) = (42.3 \text{ dB } \mu \text{ V/m}) + (-19.1 \text{ dB})$, the corresponding frequency is 30.194MHz.

Note: The test data in the graph includes two polarizations: horizontal and vertical

Test Report No.: EMC260330B001

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	22.3deg. C, 40.6 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Carl Xie		

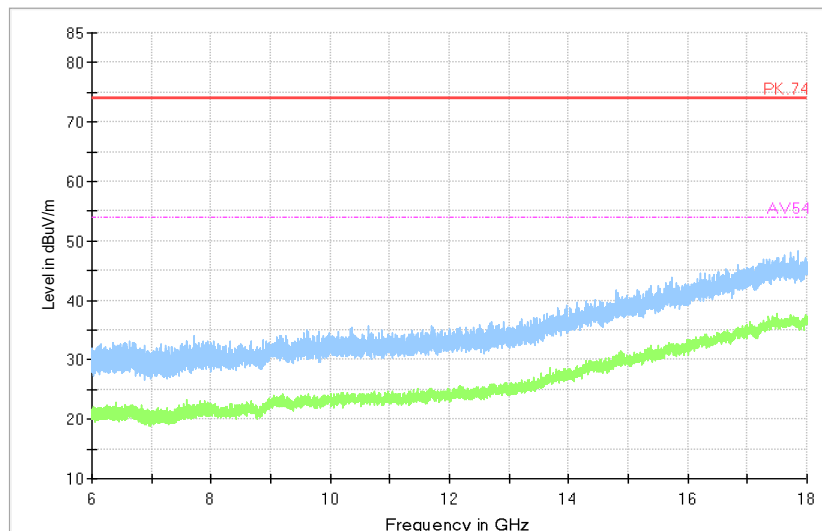
Full Spectrum



Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

Full Spectrum



Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

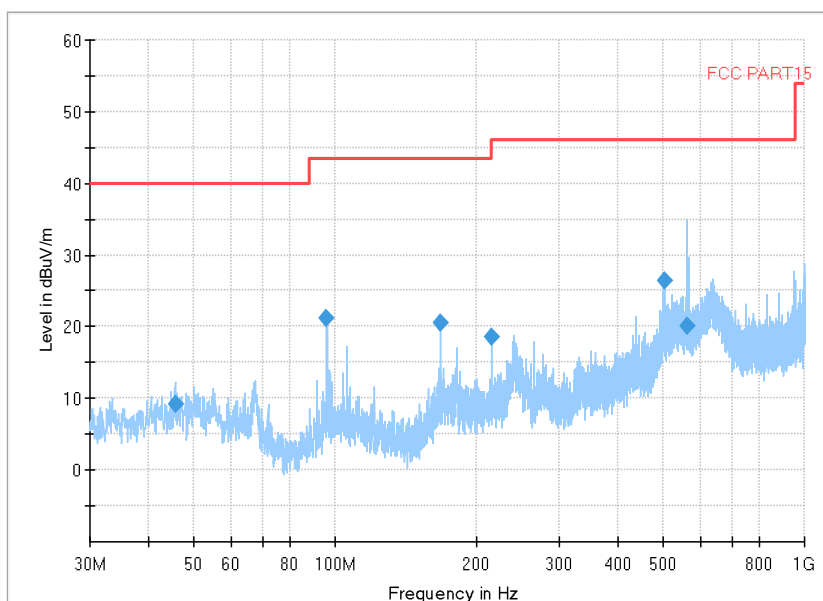
Test Report No.: EMC260330B001

Mode3:

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	22.3deg. C, 40.6 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Carl Xie		

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
45.5685	9.11	40.0	-16.1	25.21	V
95.9115	21.27	43.5	-18.0	39.27	V
167.983	20.44	43.5	-19.7	40.14	V
215.998	18.48	43.5	-16.7	35.18	V
503.991	26.37	46.0	-8.9	35.27	V
562.918	19.99	46.0	-7.5	27.49	V

Full Spectrum



Note: The test data in the graph includes two polarizations: horizontal and vertical

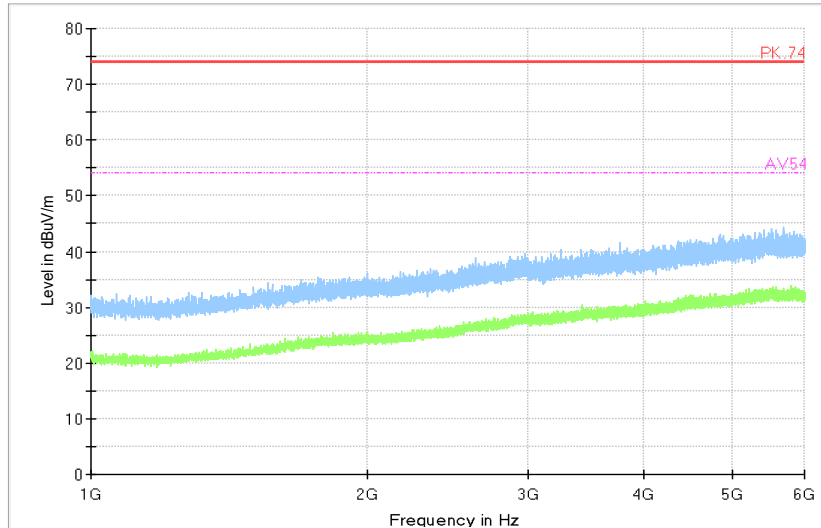
REMARKS: 1. Result= P_{mea} + A_{Rpl}.
2. Sample calculation: (9.11dB μ V/m) = (25.2dB μ V/m) + (-16.1dB), the corresponding frequency is 45.5685MHz.



Test Report No.: EMC260330B001

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23.1deg. C, 41.4 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Carl Xie		

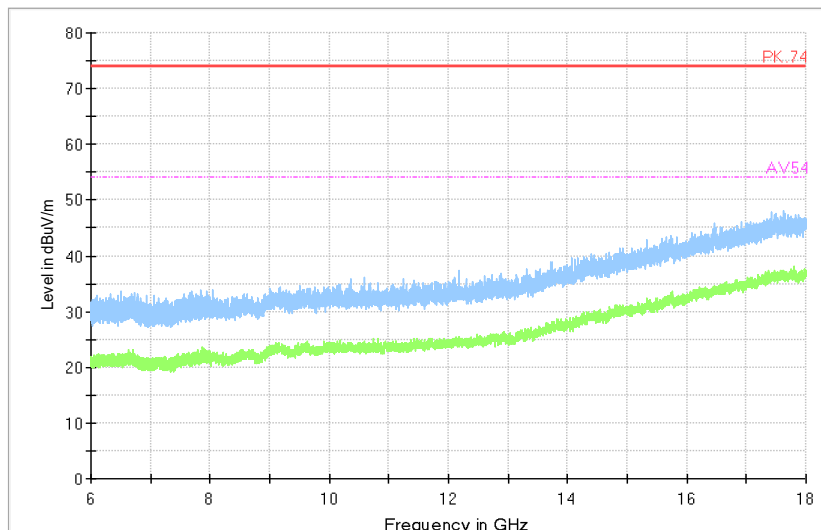
Full Spectrum



Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

Full Spectrum



Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th
Road, Chiwan Community, Zhaoshang Street, Nanshan
District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Test Report No.: EMC260330B001

3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---