





EMC TEST REPORT

following standards: ☐ FCC Part 15, Subpart B, Class A ☐ FCC Part 15, Subpart B, Class B ☐ ANSI C63.4:2014				
Supplier: Address: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Composition Product: Smart Phone FCC ID: APYHRO00336 Date of tests: March.20, 2025~ April. 28, 2025 The submitted sample of the above equipment has been tested for accordillowing standards: FCC Part 15, Subpart B, Class A FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Japan			
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FCC Part 15, Subpart B, Class B ANSI C63.4:2014	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 B			
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the	CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement			
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Lu Hannen	Simpei bo			
Date: April. 28, 2025 This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at	1			

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at the port at http://www.bureauveritas.com/home/about-us/our-ubsiness/ogs-about-us/eur-ms-conditions and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2504150110EM01	Original release	April. 28, 2025



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone		
NOMINAL VOLTAGE	DC 4V		
	WLAN	2.412GHz~2.462GHz/5.15-5.25GHz/ 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)	
OPERATING FREQUENCY	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	NSA: DC_66A_n5A DC_66A_n41A DC_13A_n66A	
HW VERSION	DVT	
SW VERSION	A3040	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
ACCESSORY DEVICES	Refer to note as below	

NOTE

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the

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authenticity, integrity and results of the data and information and/or the validity of the conclusion.

- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. 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 Model Number type		ATL	
		UBATIA319AFN2	
		Li-Lon	

AE (Auxiliary Equipment) 3#: Charger

Manufacturer		DVE	
	Model Number	DSA-10PF06-05 FUS	

AE (Auxiliary Equipment) 4#: cable

	Manufacturer	Kingpower	
ſ	Model Number	K201-05130-00	

multi-vender as follow

	(UFS-256GB / DDR:12GB)		(UFS:512GB / DDR:12GB)	
	Combination A Combination B 256GB Model 256GB Model 2nd Source		Combination C	Combination D
			512 GB Model 1st Source	512 GB Model 2nd Source
UFS	SAMSUNG	KIOXIA	SAM:	SUNG
OF3	KLUEG4RHHF-F0G1	THGJFMT1E45BATV	KLUFG8RHHD-B0G1	
DDR	SAMSUNG	MICRON	SAMSUNG	MICRON
- DIK	K3KL4L40FM-BGCV	MT62F1536M64D8CL-023 WT:B	K3KL4L40FM-BGCV	MT62F1536M64D8CL-023 WT:B

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 perfrmed when the EUT2 Working with AE1、AE2、AE3 and AE4. Note2: AE4 was selected by testing laboratory and was only cooperated with this test, not for sale.

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,	Conducted Test	Compliance	
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance	
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance	

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

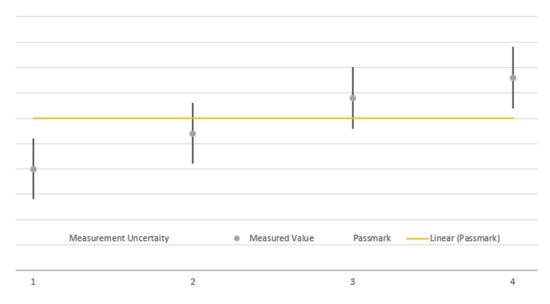


1.3 MEASUREMENT UNCERTAINTY

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:

TIC VCIGICIS III	this test report are given accor	ang 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.

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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



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 0.5 ~ 5 5 ~ 30	66 to 56 56 60	56 to 46 46 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.



2.1.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mSe mi-AnechoicChamber	FRANKONIA		2028.09.05	2023.09.05
2	ESW EMI test receiver	R&S	101574	2026.03.06	2025.03.06
3	ESR3 EMI test receiver	R&S	102361	2026.03.06	2025.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA		2027.03.25	2022.03.25
5	VULB 9163 Ultra log test antenna	schwarzbeck	727	2025.05.28	2023.05.28
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2025.07.20	2023.07.20
7	SAS-574 Horn Antenna	schwarzbeck	535	2025.05.12	2023.05.12
8	ENV216 AMN	R&S	101881	2025.06.21	2024.06.21
9	EMC32EMI test software	R&S	V10		

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



2.1.3 TEST PROCEDURES

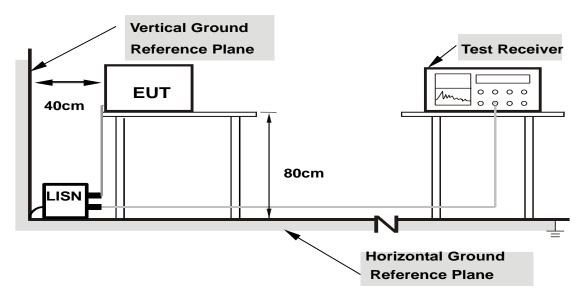
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. 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

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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.

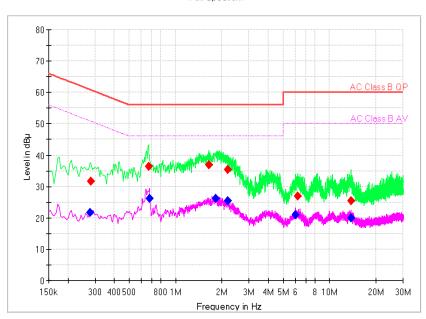


2.1.7 TEST RESULTS

Mode1:

TEST VOLTAGE	ST VOLTAGE Input 120 Vac, 60 Hz		Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.8deg. C, 41.1%RH	TESTED BY	Hanwen Xu

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)
0.27793		21.79	50.88	29.09	N	29.60	#VALUE!	-7.81
0.28219	31.60		60.75	29.16	N	29.60	2.00	#VALUE!
0.66598	36.41		56.00	19.59	N	29.60	6.81	#VALUE!
0.67451		26.21	46.00	19.79	N	29.60	#VALUE!	-3.39
1.63824	37.01		56.00	18.99	L1	29.60	7.41	#VALUE!
1.83013		26.06	46.00	19.94	L1	29.60	#VALUE!	-3.54
2.17980	35.38		56.00	20.62	L1	29.60	5.78	#VALUE!
2.18833		25.35	46.00	20.65	L1	29.60	#VALUE!	-4.25
5.99634		20.87	50.00	29.13	L1	29.70	#VALUE!	-8.83
6.18823	27.02		60.00	32.98	L1	29.70	-2.68	#VALUE!
13.77439		19.95	50.00	30.05	L1	29.90	#VALUE!	-9.95
13.78292	25.30		60.00	34.70	N	29.90	-4.60	#VALUE!

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.

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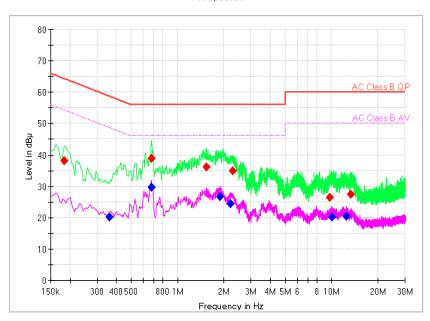
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4. Presult=Pmea+ Corr.(dB).Sample calculation: $(21.79 \text{ dB}\mu\text{V}) = (-7.81 \text{ dB}\mu\text{V}) + (29.6 \text{ dB})$, the corresponding frequency is 0.27793MHz.

TEST VOLTAGE	Innut 240 \/ac 50 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.8deg. C, 41.1%RH	TESTED BY	Hanwen Xu

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)
0.18411	38.05		64.30	26.25	N	29.60	8.45	#VALUE!
0.35895		20.21	48.75	28.55	N	29.60	#VALUE!	-9.39
0.67451		29.58	46.00	16.42	N	29.60	#VALUE!	-0.02
0.67877	38.94		56.00	17.06	N	29.60	9.34	#VALUE!
1.54016	36.12		56.00	19.88	N	29.60	6.52	#VALUE!
1.88130		26.58	46.00	19.42	N	29.60	#VALUE!	-3.02
2.20539		24.43	46.00	21.57	N	29.60	#VALUE!	-5.17
2.29067	35.01		56.00	20.99	N	29.60	5.41	#VALUE!
9.71906	26.48		60.00	33.52	N	29.80	-3.32	#VALUE!
10.02609		20.17	50.00	29.83	N	29.80	#VALUE!	-9.63
12.54201		20.32	50.00	29.68	N	29.90	#VALUE!	-9.58
13.28400	27.41		60.00	32.59	L1	29.90	-2.49	#VALUE!

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).

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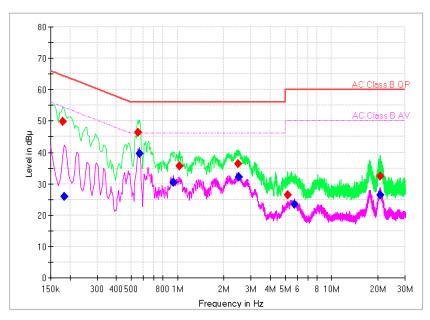
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Mode3:

TEST VOLTAGE	TEST VOLTAGE Input 240 Vac, 50Hz		Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.8deg. C, 41.1%RH	TESTED BY	Hanwen Xu

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)
0.17985	49.87		64.49	14.62	N	29.60	20.27	#VALUE!
0.18411		25.86	54.30	28.44	N	29.60	#VALUE!	-3.74
0.55511	46.48		56.00	9.52	N	29.60	16.88	#VALUE!
0.56364		39.62	46.00	6.38	L1	29.60	#VALUE!	10.02
0.94316		30.34	46.00	15.66	L1	29.60	#VALUE!	0.74
1.02418	35.75		56.00	20.25	L1	29.60	6.15	#VALUE!
2.45698	36.51		56.00	19.49	L1	29.60	6.91	#VALUE!
2.49536		32.16	46.00	13.84	L1	29.60	#VALUE!	2.56
5.17333	26.39		60.00	33.61	N	29.70	-3.31	#VALUE!
5.74048		23.48	50.00	26.52	N	29.70	#VALUE!	-6.22
20.59725		26.32	50.00	23.68	N	30.30	#VALUE!	-3.98
20.66548	32.35		60.00	27.65	N	30.30	2.05	#VALUE!

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: (49.87 dB μ V) = (20.27 dB μ V) + (29.6 dB), the corresponding frequency is 0.17985 MHz

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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 (dBµV/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 $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 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.



2.2.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mSe mi-AnechoicChamber	FRANKONIA		2028.09.05	2023.09.05
2	ESW EMI test receiver	R&S	101574	2026.03.06	2025.03.06
3	ESR3 EMI test receiver	R&S	102361	2026.03.06	2025.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA		2027.03.25	2022.03.25
5	VULB 9163 Ultra log test antenna	schwarzbeck	727	2025.05.28	2023.05.28
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2025.07.20	2023.07.20
7	SAS-574 Horn Antenna	schwarzbeck	535	2025.05.12	2023.05.12
8	ENV216 AMN	R&S	101881	2025.06.21	2024.06.21
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. Result= P_{mea} + A_{Rpl.}
- ARpl (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. ARpl (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 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.
- 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.
- . Result= Pmea + ARpl.
- . ARpl (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- ARpl (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)

2.2.4 DEVIATION FROM TEST STANDARD

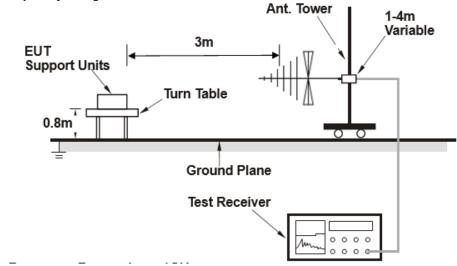
No deviation.

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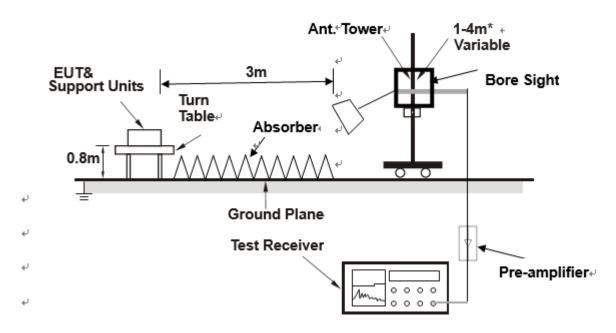


2.2.5 TEST SETUP

<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:

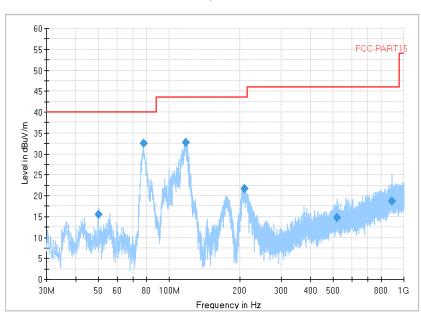
TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Hanwen Xu		

Frequency(MHz)	Result(dB µ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB µ V/m)	Polarity
49.8365	15.49	40.0	-15.4	30.89	V
77.724	32.52	40.0	-22.0	54.52	V
117.64	32.66	43.5	-18.8	51.46	V
209.256	21.77	43.5	-17.2	38.97	V
519.899	14.77	46.0	-8.8	23.57	V
888.062	18.68	46.0	-2.4	21.08	V

REMARKS: 1. Result= P_{mea} + A_{Rpl.}

2.Sample calculation: (15.49dB μ V/m) = (30.89dB μ V/m) + (-15.4dB), the corresponding frequency is 49.8365MHz.

Full Spectrum

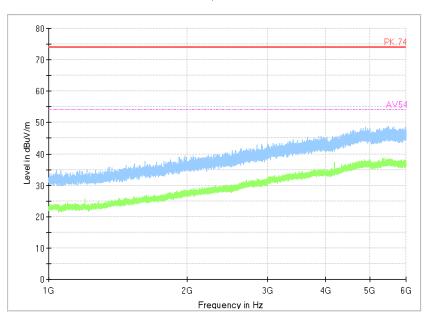


Note: The test data in the graph includes two polarizations: horizontal and vertical



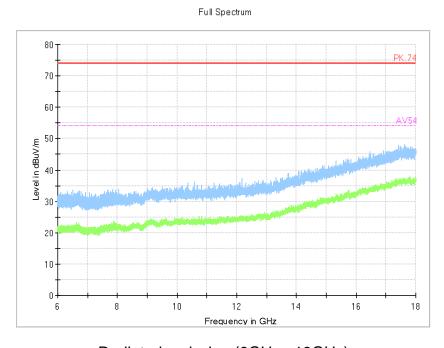
TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23.1deg. C, 41.4 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Jace Hu		

Full Spectrum



Radiated emission (1GHz -6GHz)

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



Radiated emission (6GHz -18GHz)

Huarui 7layers High Technology (Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

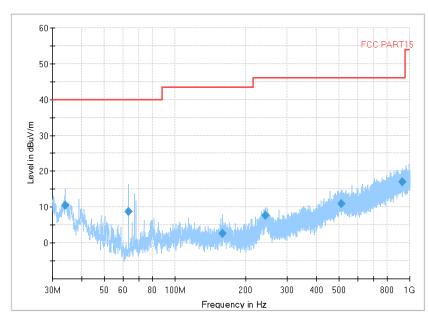


Note: The test data in the graph includes two polarizations: horizontal and vertical. Mode3:

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23.1deg. C, 41.4 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Hanwen Xu		

Frequency(MHz)	Result(dB µ V/m)	Limit (dB µ V/m)	ARpl (dB)	Pmea (dB µ V/m)	Polarity
33.977	10.60	40.0	-14.6	25.20	V
63.271	8.81	40.0	-26.1	34.91	V
159.447	2.66	43.5	-23.4	26.06	V
242.673	7.58	46.0	-20.5	28.08	V
510.15	10.95	46.0	-11.9	22.85	V
929.578	17.03	46.0	-4.3	21.33	V

Full Spectrum



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

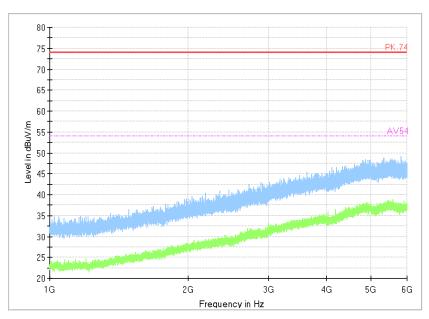
REMARKS: 1. Result= $P_{mea} + A_{Rpl.}$

2.Sample calculation: (10.60dB μ V/m) = (25.2dB μ V/m) + (-14.6dB), the corresponding frequency is 33.977MHz.



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	Jace Hu		

Full Spectrum



Radiated emission (1GHz -6GHz)

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

Full Spectrum

80
70
60
40
40
20
10
6
8
10
12
14
16
18
Frequency in GHz

Radiated emission (6GHz –18GHz)

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

Huarui 7layers High Technology (Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province



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.

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