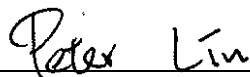


CE EMC Test Report

Equipment : 802.11ax Wi-Fi 6E + BT5.4 Module
Model No. : Veda IF913
Brand Name : Ezurio
Applicant : Ezurio LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : EN 301 489-1 V2.2.3 (2019-11)
EN 301 489-3 V2.3.2 (2023-01)
EN 301 489-17 V3.3.1 (2024-09)
Received Date : Jan. 12, 2026
Tested Date : Jan. 16 ~ Feb. 10, 2026

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Peter Lin / Assistant Manager


JN Chen / Supervisor

Approved by:

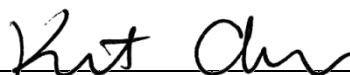

Kent Chen / Manager

Table of Contents

1	GENERAL DESCRIPTION	6
1.1	Information.....	6
1.2	Test Equipment and Calibration Data	9
1.3	Testing Applied Standards	10
1.4	Deviation from Test Standard and Measurement Procedure.....	10
1.5	Measurement Uncertainty	11
2	TEST CONFIGURATION.....	12
2.1	Testing Facility	12
2.2	The Worst Case Measurement Configuration.....	13
2.3	Local Support Equipment List	16
2.4	Test Setup Chart	17
2.5	Test Software and Operating Condition	19
3	EMISSION TEST RESULTS.....	20
3.1	Conducted Emissions from the AC mains power ports.....	20
3.2	Radiated Emissions.....	22
4	IMMUNITY TESTS	26
4.1	General Description.....	26
4.2	Performance Criteria Description	26
4.3	Special Conditions for EMC Measurements	28
4.4	Electrostatic Discharge (ESD).....	29
4.5	Radio Frequency Electromagnetic Field (RS).....	33
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	41
6	TEST LABORATORY INFORMATION	42

Appendix A. Conducted Emissions from the AC mains power ports

Appendix B. Radiated Emissions below 1GHz

Appendix C. Radiated Emissions above 1GHz

Appendix D. Photographs of the Test Configuration

Release Record

Report No.	Version	Description	Issued Date
EH611202	Rev. 01	Initial issue	Aug. 18, 2026
EH611202	Rev. 02	Added EN 301 489-3 standard.	Sep. 18, 2026

Summary of Test Results

EN 301 489-1 Emission Tests				
Ref. Std. Clause	Test Standard	Test Items	Measured	Result
8.3/8.4	EN 55032:2015/A1:2020, Class B	Conducted Emissions from the AC mains power ports	Under limit 16.39dB @ 156.109kHz.	Pass
8.7	EN 55032:2015/A1:2020, Class B	Asymmetric Mode Conducted Emissions	Note ¹	N/A
8.2	EN 55032:2015/A1:2020, Class B	Radiated Emissions	Under limit 3.28dB @ 224.8MHz.	Pass
8.5	EN IEC 61000-3-2:2019/A1:2021, Class A EN IEC 61000-3-2:2019/A2:2024, Class A	Harmonic Current Emissions	Note ²	N/A
8.6	EN 61000-3-3:2013/A1:2019 EN 61000-3-3:2013/A2:2021	Voltage Fluctuations and Flicker	Note ²	N/A
N/A means Not Applicable. Note¹: The EUT w/o telecom port. Note²: The EUT consumes DC power, so the test is not required.				

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

EN 301 489-1 Immunity Tests					
Ref. Std. Clause	Test Standard	Description of Test		Pass Criterion	Result
9.3	EN 61000-4-2:2009	Electrostatic Discharge (ESD)		A	Pass
9.2	EN IEC 61000-4-3:2020	Radio Frequency Electromagnetic Field (RS)		A	Pass
9.4	EN 61000-4-4:2012	Electrical Fast Transient/Burst (EFT)		Note ¹	N/A
9.8	EN 61000-4-5:2014+A1:2017	Surge		Note ²	N/A
9.5	EN IEC 61000-4-6:2023	Conducted Disturbances (CS)		Note ¹	N/A
9.7	EN IEC 61000-4-11:2020	Voltage Dips	0% residual for 0.5 cycle	Note ²	N/A
			0% residual for 1 cycle	Note ²	N/A
			70% residual for 25 cycle	Note ²	N/A
		Voltage Interruption	0% residual for 250 cycle	Note ²	N/A
N/A means Not Applicable. Note ¹ : The EUT consumes DC power, and it is not intended to be used with cables longer than 3m. So this test is not carried out. Note ² : The EUT consumes DC power, so the test is not required.					

Comments and Explanations:
None.

1 General Description

1.1 Information

1.1.1 Product Details

Model Name	Part No.	Product Name	Description
Veda IF913	453-00400	802.11ax Wi-Fi 6E + BT5.4 Module	Module, Veda IF913, SIP, Tri Band, No Embedded Memory, RF Trace Pin
	453-00401		Module, Veda IF913, SIP, Tri Band, Embedded Ext. Memory, 8M PSRAM, 8M Flash, RF Trace Pin

1.1.2 Specification of the Equipment under Test (EUT)

S/W Version	IFX_Ezurio-H1CP-04022026-2
WLAN	
Operating Frequency	802.11b/g/n/ax: 2412 MHz ~ 2472 MHz 802.11a/n/ac/ax: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5725 MHz ~ 5850 MHz (For UK only); 5925 MHz ~ 6425 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac/ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024 QAM)
BT	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulation Type	Bluetooth LE: GFSK

1.1.3 Antenna Details

External Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Ezurio / FlexMIMO 6E	EFD2471A3S-10MH4L	PIFA	MHF4L	2.2	3.8	3.8	3.8	3.8
Ezurio / FlexPIFA 6E	EFB2471A3S-10MH4L	PIFA	MHF4L	2.2	3.9	3.9	3.9	3.9
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	4.4	4.4	4.4
Joymax Electronics / Dipole 6E	TWX-100BR S3B	Dipole	RP-SMA	2	4	4	4	4
Ezurio / FlexPIFA Dual Band	001-0021	PIFA	IPEX MHF4L	2.5	3	3	3	3
Ezurio / FlexPIFA Dual Band	EFB2455A3S-15MH4L	PIFA	MHF1	2.5	3	3	3	3

Brand / Model	Part Number	Type	Connector	Antenna Gain (dBi)
				5925~6425
Ezurio / FlexMIMO 6E	EFD2471A3S-10MH4L	PIFA	MHF4L	3.3
Ezurio / FlexPIFA 6E	EFB2471A3S-10MH4L	PIFA	MHF4L	3.8
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3S-10MH4L	PCB Dipole	MHF4L	5.2
Joymax Electronics / Dipole 6E	TWX-100BRS3B	Dipole	RP-SMA	4

Integrated Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Yageo / Chip Antenna	ANT1608LL14R2460A	Chip	NA	2.3	0.1	0.1	1.8	2.5

Brand / Model	Part Number	Type	Connector	Antenna Gain (dBi)
				5925~6425
Yageo / Chip Antenna	ANT1608LL14R2460A	Chip	NA	2.7

1.1.4 Power Supply Type of the Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
--------------------------	------------------

1.1.5 Accessories

N/A.

1.2 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Jan. 16, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 25, 2025	Feb. 24, 2026
LISN	R&S	ENV216	101579	May. 07, 2025	May. 06, 2026
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	150821	Oct. 07, 2025	Oct. 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
50 ohm terminal (Support Unit)	NA	50	01	Jun. 17, 2025	Jun. 16, 2026
Measurement Software	Sporton	SENSE-EMI	V5.11.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Jan. 20, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	Agilent	N9038A	MY53290044	Sep. 15, 2025	Sep. 14, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2025	Sep. 04, 2026
Preamplifier	EMC	EMC02325	980194	Oct. 01, 2025	Sep. 30, 2026
LF cable 1M	EMC	EMCCFD400-NM-NM -1000	160501	Sep. 29, 2025	Sep. 28, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Sep. 29, 2025	Sep. 28, 2026
LF cable 10M	EMC	CFD400-E	CFD400-001	Sep. 29, 2025	Sep. 28, 2026
Measurement Software	Sporton	SENSE-EMI	V5.11.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Jan. 20, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Dec. 16, 2025	Dec. 15, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 03, 2025	Sep. 02, 2026
Preamplifier	Agilent	83017A	MY39501309	Aug. 20, 2025	Aug. 19, 2026
RF Cable	EMC	EMC105-SM-SM-8000	180512	Sep. 29, 2025	Sep. 28, 2026
RF Cable	HUBER+SUHNER	EMC-104-35M-3000	MY210921	Sep. 29, 2025	Sep. 28, 2026
Measurement Software	Sporton	SENSE-EMI	V5.11.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	ESD				
Test Site	ESD room 1 / (ES01-WS)				
Tested Date	Feb. 10, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
ESD Generator	TESEQ	NSG437	P2321276435	Jun. 13, 2025	Jun. 12, 2026
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Immunity (80 MHz - 6 GHz)				
Test Site	RS room 1 / (RS01-WS)				
Tested Date	Feb. 03 ~ Feb. 04, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Signal Generator	R&S	SMB100A	103924HA	Oct. 09, 2025	Oct. 08, 2026
Power Sensor	R&S	NRP-Z91	101094	Sep. 23, 2025	Sep. 22, 2026
Power Sensor	R&S	NRP-Z91	101095	Sep. 23, 2025	Sep. 22, 2026
Power Amplifier	BONN	BLWA 0810-250	2213941A	N/A	N/A
Power Amplifier	BONN	BLMA 1060-150W	2213941B	N/A	N/A
Antenna	SCHWARZBECK MESS-ELEKTRONIK	STLP 9149	9149-073	N/A	N/A
Antenna	R&S	HL046E	100076-Cd	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

EN 301 489-1 V2.2.3 (2019-11)
 EN 301 489-3 V2.3.2 (2023-01)
 EN 301 489-17 V3.3.1 (2024-09)

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty		
Test Item	Frequency	Uncertainty
Conducted Emissions from the AC mains power ports	150kHz ~ 30MHz	± 2.92 dB
Radiated Emissions	30MHz ~ 1GHz	± 4.32 dB
	Above 1GHz	± 4.57 dB

Note: The results of measurements of emissions shall reference the measurement uncertainty considerations contained in CISPR 16-4-2.

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH02-WS, RS01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	ES01-WS
Address of Test Site	No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

2.2 The Worst Case Measurement Configuration

Radiation Pretested Mode	
Pretest Mode	Operating Description
1	EUT(SC Type with 8Mb RAM): X-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
2	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
3	EUT(SC Type with 8Mb RAM): Z-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
4	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 5G AX, BT link, with laptop 230V/50Hz
5	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 2.4G AX, BT link, with laptop 230V/50Hz
6	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: EFD2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
7	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: EFB2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
8	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: EMF2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
9	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: 001-0021, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
10	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: EFB2455A3S-15MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
11	EUT(SC Type without 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
12	EUT(ST Type with 8Mb RAM): Y-axis + Ant.: ANT1608LL14R2460A, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
13	EUT(ST Type without 8Mb RAM): Y-axis + Ant.: ANT1608LL14R2460A, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
14	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 110V/60Hz
15	EUT(SC Type with 8Mb RAM): Y-axis, Ant.: TWX-100BRS3B, Standby mode with laptop 230V/50Hz -EW
Pretest Mode 2 was the worst case, and only its data was recorded in this test report.	

The Worst Test Configurations	
Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	EUT(SC Type with 8Mb RAM): X-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
2	EUT(SC Type with 8Mb RAM): X-axis + Ant.: EFD2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
3	EUT(SC Type with 8Mb RAM): X-axis + Ant.: EFB2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
4	EUT(SC Type with 8Mb RAM): X-axis + Ant.: EMF2471A3S-10MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
5	EUT(SC Type with 8Mb RAM): X-axis + Ant.: 001-0021, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
6	EUT(SC Type with 8Mb RAM): X-axis + Ant.: EFB2455A3S-15MH4L, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
7	EUT(SC Type without 8Mb RAM): X-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
8	EUT(ST Type with 8Mb RAM): X-axis + Ant.: ANT1608LL14R2460A, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
9	EUT(ST Type without 8Mb RAM): X-axis + Ant.: ANT1608LL14R2460A, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
10	EUT(SC Type with 8Mb RAM): X-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 110V/60Hz
Radiated Emissions	
Test Mode ≤1GHz	Operating Description
1	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz
Test Mode >1GHz	Operating Description
1	EUT(SC Type with 8Mb RAM): Y-axis + Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link, with laptop 230V/50Hz

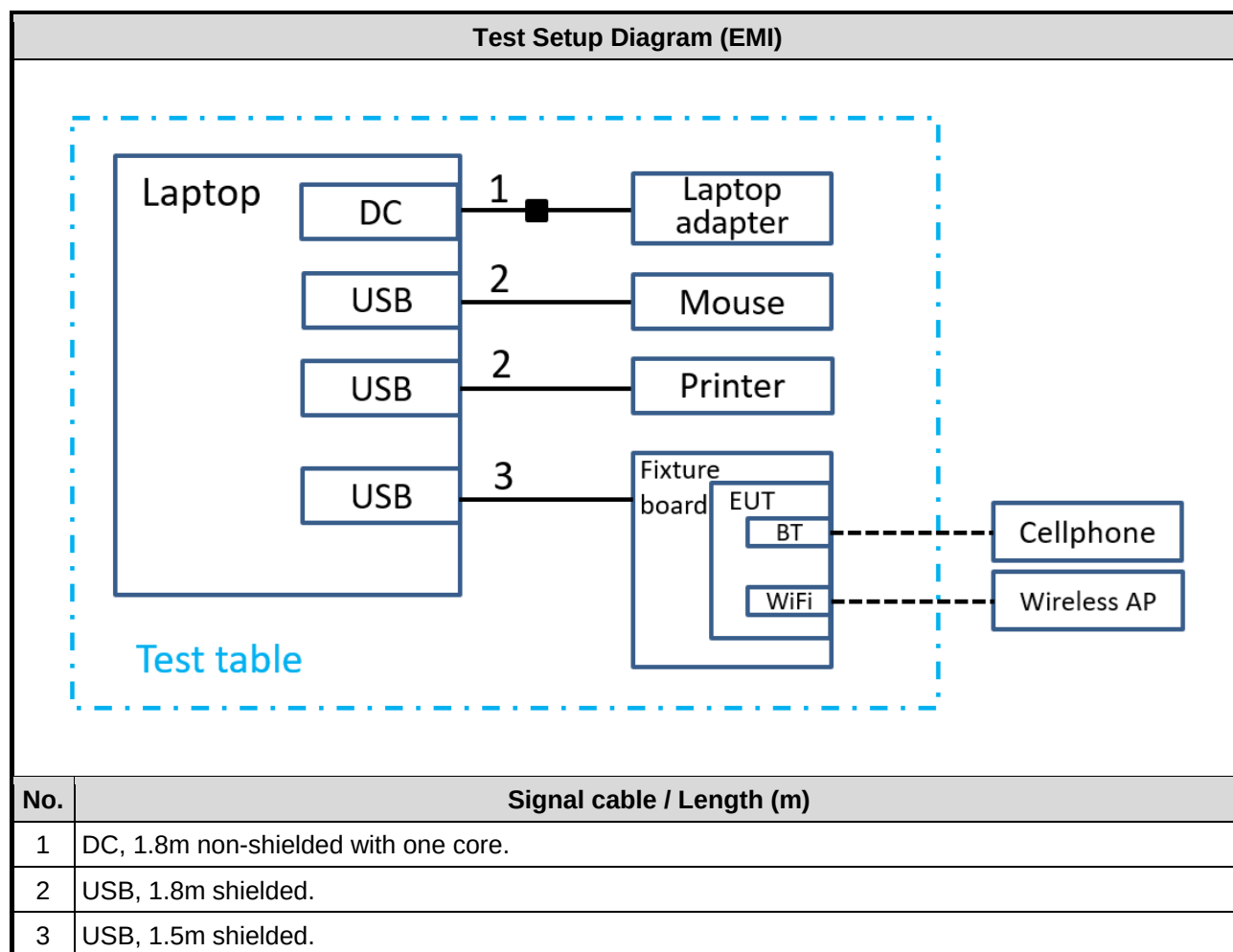
ESD & RS Tests (mode 10 is for RS only)	
Test Mode	Operating Description
1	EUT(SC Type with 8Mb RAM) Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link.
2	EUT(SC Type with 8Mb RAM) Ant.: EFD2471A3S-10MH4L, Ping WiFi 2.4G AX, BT link.
3	EUT(SC Type with 8Mb RAM) Ant.: EFB2471A3S-10MH4L, Ping WiFi 5G AX, BT link.
4	EUT(SC Type with 8Mb RAM) Ant.: EMF2471A3S-10MH4L, Ping WiFi 6G AX, BT link.
5	EUT(SC Type with 8Mb RAM) Ant.: 001-0021, Ping WiFi 2.4G AX, BT link.
6	EUT(SC Type with 8Mb RAM) Ant.: EFB2455A3S-15MH4L, Ping WiFi 5G AX, BT link.
7	EUT(ST Type with 8Mb RAM) Ant.: ANT1608LL14R2460A, Ping WiFi 6G AX, BT link.
8	EUT(SC Type without 8Mb RAM) Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link
9	EUT(ST Type without 8Mb RAM) Ant.: TWX-100BRS3B, Ping WiFi 6G AX, BT link
10	EUT(SC Type with 8Mb RAM) Ant.: TWX-100BRS3B, PER Mode

2.3 Local Support Equipment List

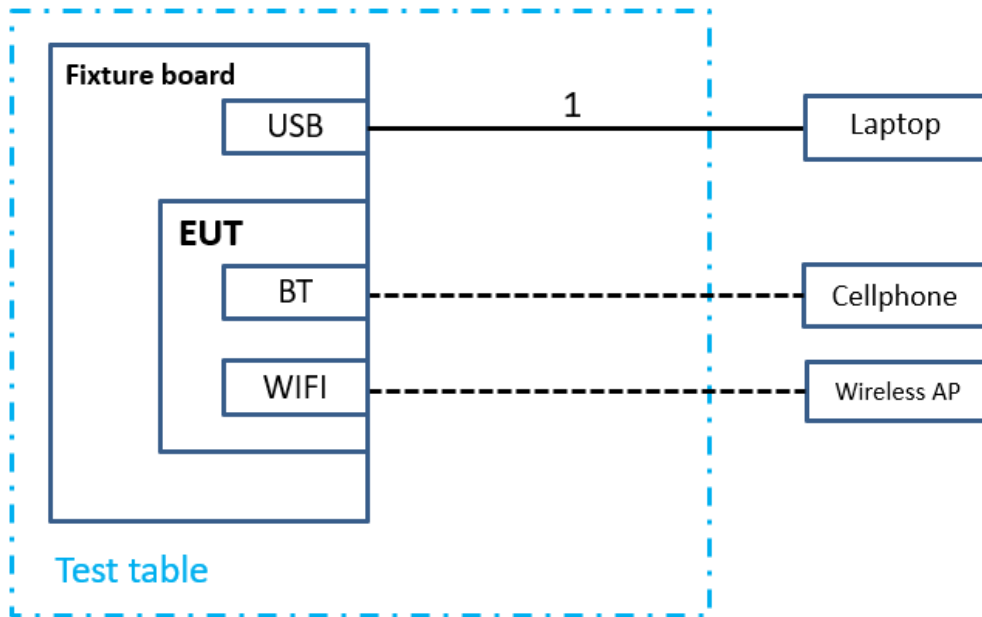
Support Equipment List (EMI)					
No.	Equipment	Brand	Model	S/N	Remarks
1	Laptop	DELL	Latitude 5400	CZYCM33	---
2	Printer	EPSON	XP-30	QSDK002410	---
3	Mouse	DELL	MS111-L	2C3-00N9	---
4	AP	ELECOM	WRC-XE5400G S-G	---	---
5	Cellphone	Apple	A3090	M4461GKQVR	---
6	Fixture board	---	---	---	Provided by applicant.

Support Equipment List (EMS)					
No.	Equipment	Brand	Model	S/N	Remarks
1	Wireless connectivity tester	R&S	CMW270	100856	For BT PER test only.
2	Laptop	DELL	Latitude 3400	DKZLWZ2	---
3	Wireless AP	ELECOM	WRC-XE5400G S-G	---	---
4	Fixture board	---	---	---	Provided by applicant.
5	Cellphone	Apple	A3090	M4461GKQVR	---

2.4 Test Setup Chart

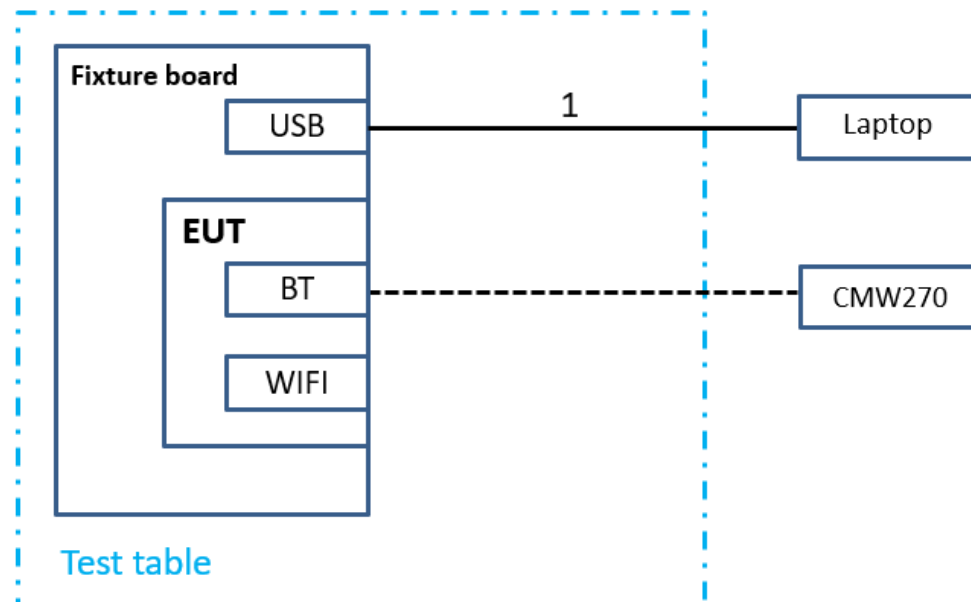


Test Setup Diagram (EMS)



No.	Signal cable / Length (m)
1	USB-C, 1m shielded.

Test Setup Diagram (EMS – for RS mode 10 only)



No.	Signal cable / Length (m)
1	USB-C, 1m shielded.

2.5 Test Software and Operating Condition

- a. To enable all function of test system.
- b. The support laptop executes "WinEMC.exe" for the printer to print.
- c. The support laptop executes "KM player.exe" to play colorbar video.
- d. The support cellphone launch "AIROC Bluetooth Connect" application for EUT linking to WiFi AP.
- e. The support cellphone launch "AIROC Bluetooth Connect" application for EUT linking to BT.
- f. The support laptop executes ping command to monitor the WLAN packet error rate below 10%.
- g. The EUT links with CMW270 to observe BT packet error rate below 10%.

3 Emission Test Results

3.1 Conducted Emissions from the AC mains power ports

3.1.1 Limits of Conducted Emissions from the AC mains power ports

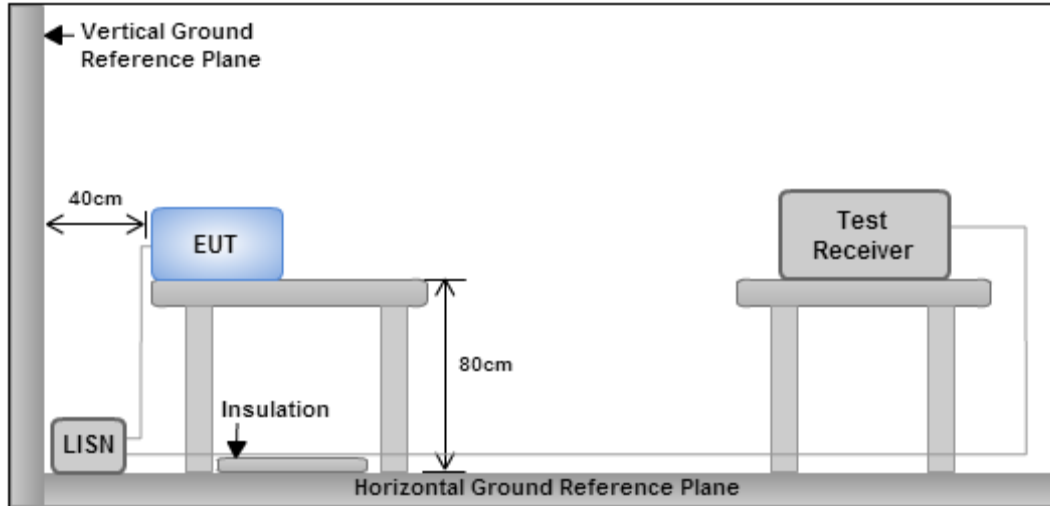
Frequency Range	Limits values (dBμV)			
	Class A		Class B	
	Quasi-Peak	Average	Quasi-Peak	Average
0,15 MHz to 0,5 MHz	79	66	66 to 56 *	56 to 46 *
> 0,5 MHz to 5 MHz	73	60	56	46
> 5 MHz to 30 MHz	73	60	60	50

Note 1: "*" Decreasing linearly with the logarithm of the frequency.
 Note 2: If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 Note 3: The higher value measured with and without the outer conductor screen of the antenna terminal connected to earth is considered.

3.1.2 Test Procedures

- The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- A thickness of $\leq 0.15\text{m}$ insulation should be placed between local AE and associated cabling and the RGP.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The CISPR states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.1.3 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 cm from other units and other metal planes

3.1.4 Measurement Formula and Calculation

$\text{Level (dBuV)} = \text{Raw (Read level)} + \text{LISN (LISN factor)} + \text{CL (Cable loss)} + \text{AT (Attenuator)}$
 $\text{Margin (dB)} = \text{Level (dBuV)} - \text{Limit (dBuV)}$

3.1.5 Test Results

Refer to Appendix A.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

Frequency Range (MHz)	Class A		Class B	
	10m	3m	10m	3m
	Quasi-peak limits (dB μ V/m)			
30 to 230	40	50	30	40
230 to 1000	47	57	37	47

Note 1: The lower limit shall apply at the transition frequency.
Note 2: Additional provisions may be required for cases where interference occurs.

Frequency range (GHz)	Class A (3m)		Class B (3m)	
	Average limit (dB μ V/m)	Peak limit (dB μ V/m)	Average limit (dB μ V/m)	Peak limit (dB μ V/m)
1 to 6	60	80	54	74

Note: Additional provisions may be required for cases where interference occurs.

For an unintentional radiator is shown in the table below.

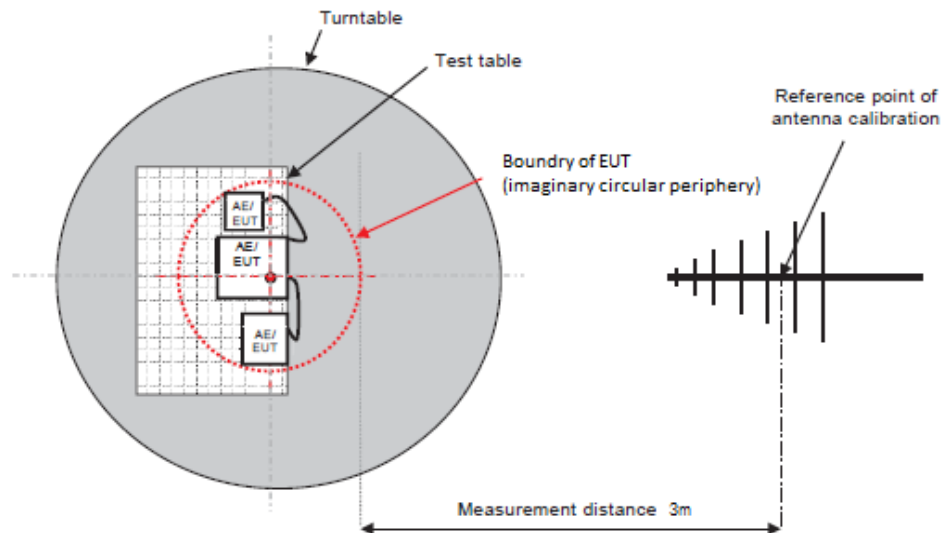
The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.	Upper frequency of measurement range
Below 108 MHz	1 GHz
108 MHz to 500 MHz	2 GHz
500 MHz to 1 GHz	5 GHz
Above 1 GHz	5 times the highest frequency or 6 GHz, whichever is less.

3.2.2 Test Procedures

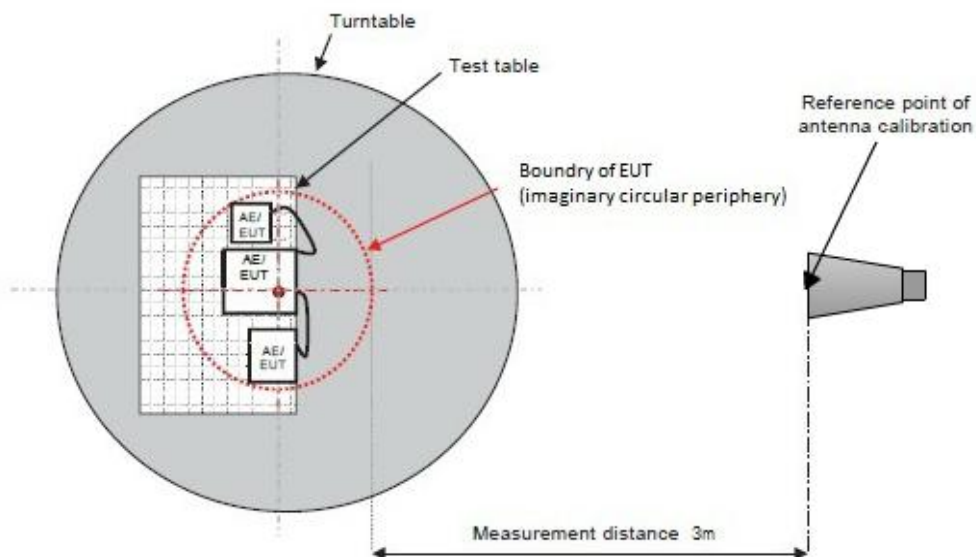
- a. The EUT was placed on a rotatable table top with a height of 0.8 meters which is placed on the ground plane.
- b. A thickness of $\leq 0.15\text{m}$ insulation should be placed between local AE and associated cabling and the RGP.
- c. The EUT received DC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- d. The EUT and local AE shall be arranged in the most compact practical arrangement within the test volume. The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and calibration point of the antenna.
- e. The table was rotated 360 degrees to determine the position of the highest radiation.
- f. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- g. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 to 4 meters) and turn table (from 0 to 360 degrees) to find the maximum reading.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 2 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 2 dB margin will be repeated one by one using the quasi-peak method and reported.

3.2.3 Test Setup

Radiated Emissions below 1GHz



Radiated Emissions above 1GHz



3.2.4 Measurement Formula and Calculation

Level (dBuV/m) = Raw (Read level) + AF (Antenna factor) + CL (Cable loss) – PA (Preamplifier factor)

Margin (dB) = Level (dBuV/m) – Limit (dBuV/m)

3.2.5 Test Results (Below 1GHz)

Refer to Appendix B.

3.2.6 Test Results (Above 1GHz)

Refer to Appendix C.

4 Immunity Tests

4.1 General Description

Product Standard: EN 301 489-1 , EN 301 489-3 , EN 301 489-17		
Basic Standard	Spec. Requirement	Performance Criteria
EN 61000-4-2 (ESD)	Contact Discharge: ± 4 kV Air Discharge: ± 8 kV	TT/TR (B)
EN 61000-4-3 (RS)	80 MHz to 6000 MHz 3 V/m, 1 kHz Sine Wave 80%, AM Modulation	CT/CR (A)

4.2 Performance Criteria Description

EN 301 489-3 Performance Criteria
Performance Criteria For Continuous Phenomena
During the test, the equipment shall: - continue to operate as intended; - not unintentionally transmit; - not unintentionally change its operating state; - not unintentionally change critical stored data.
Performance Criteria For Transient Phenomena
For all ports and transient phenomena with the exception described below, the following applies: - The application of the transient phenomena shall not result in a change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data. - After application of the transient phenomena, the equipment shall operate as intended. For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies: - For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost. - For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
Continuous and Non-Continuous Operation
Latency is the time delay between the initiation and the completion of operation of the EUT. Correct functioning requires completing the relevant operation within the maximum latency time. Where the maximum latency is specified in the applicable harmonised radio standard (in the wanted performance criterion, or an acknowledge requirement), that value shall be used. Where this is not the case, then the maximum latency is that required by the intended use of the EUT.
Operating Mode
Where the EUT has more than one mode of operation, an unplanned transition from one mode to another is considered as an unintentional response. The EUT shall be tested in all modes to confirm there are no such unintentional responses.

EN 301 489-17 Performance Criteria		
Criteria	During test	After test (i.e. as a result of the application of the test)
A	Shall operate as intended. (see note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.
Note: Operate as intended during the test shall be considered as: - For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10%. - For equipment that does not support a PER or FER, (e.g. audio equipment and equipment transmitting sporadic messages) the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.		

4.3 Special Conditions for EMC Measurements

4.3.1 Special Conditions for Emission Measurements

EN 301 489-3

Reference to clauses in EN 301 489-1	Special product-related conditions, additional to or modifying the test conditions in EN 301 489-1, clause 8
8.3 DC power input/output ports	The requirements of ETSI EN 301 489-1, clause 8.3 shall be applied where the cable length exceeds 3 m or is connected to a vehicle power supply.

EN 301 489-17

No special conditions.

4.3.2 Special Conditions for Immunity Measurements

EN 301 489-3

Reference to clauses in EN 301 489-1	Special product-related conditions, additional to or modifying the test conditions in EN 301 489-1, clause 9
9.2.2: Test method; Radio frequency electromagnetic field	Where the EUT is subject to EMC Immunity testing under a Harmonised Standard of a Directive other than the Directive 2014/53/EU then the modulating signal frequency specified in that Harmonised Standard may be used. If this alternative modulating frequency is used, then the applicable Directive, Harmonised Standard & modulating frequency shall be noted in the test report.
9.4: Fast transients common mode	The requirements of ETSI EN 301 489-1, clauses 9.4.1 and 9.4.2 shall be applied with the exception of clause 7.4 of EN 61000-4-4.
9.5.2: Test method; Radio frequency, common mode	Where the EUT is subject to EMC Immunity testing under a Harmonised Standard of a Directive other than the Directive 2014/53/EU then the modulating signal frequency specified in that Harmonised Standard may be used. If this alternative modulating frequency is used, then the applicable Directive, Harmonised Standard & modulating frequency shall be noted in the test report.

EN 301 489-17

No special conditions.

4.4 Electrostatic Discharge (ESD)

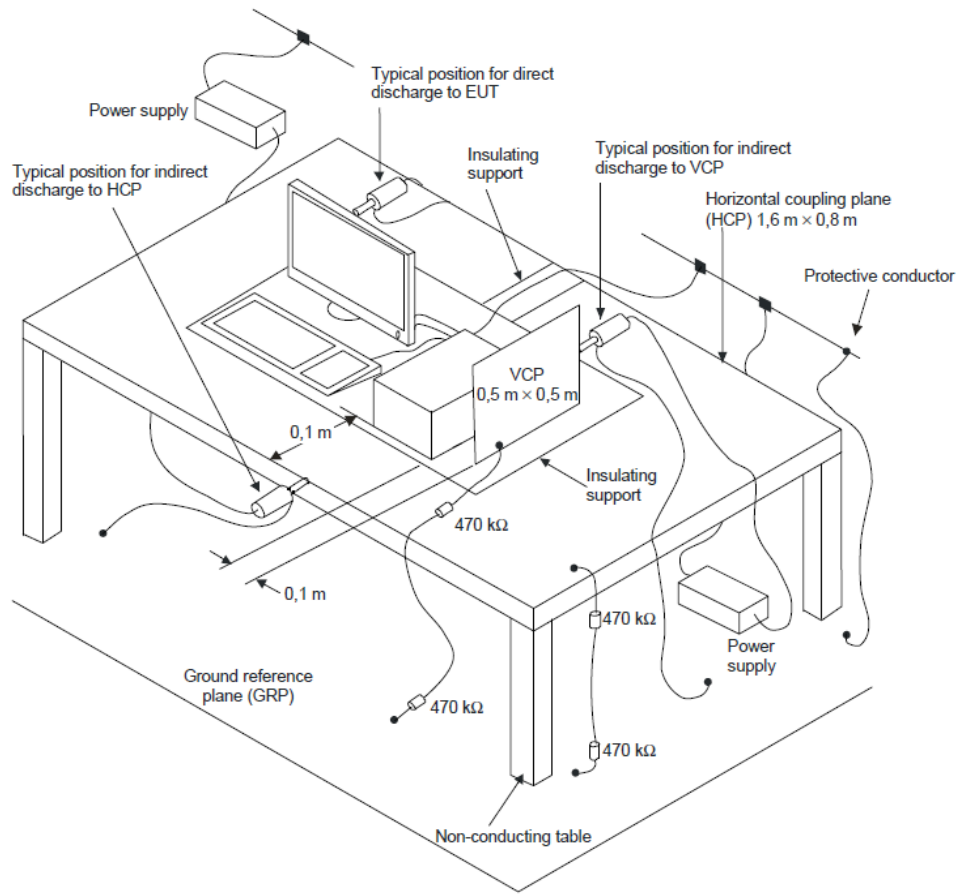
4.4.1 Test Specification of Electrostatic Discharge (ESD)

Basic Standard	EN 61000-4-2
Discharge Voltage	Contact Discharge: ± 2 kV / ± 4 kV Air Discharge: ± 2 kV / ± 4 kV / ± 8 kV
Discharge Impedance	330 ohm / 150 pF
Number of Discharge	Air Discharge: minimum 20 times at each test point Contact Discharge: minimum 20 times at each test point
Discharge Mode	Single Discharge
Discharge Period	1 second minimum

4.4.2 Test Procedures

- a. In the case of air discharge testing the climatic conditions shall be within the following ranges:
 - ambient temperature: 15°C to 35°C;
 - relative humidity : 30% to 60%;
 - atmospheric pressure : 86 kPa (860 mbar) to 106 kPa (1060 mbar).
- b. Test programs and software shall be chosen so as to exercise all normal modes of operation of the EUT. The use of special exercising software is encouraged, but permitted only where it can be shown that the EUT is being comprehensively exercised.
- c. The test voltage shall be increased from the minimum to the selected test severity level, in order to determine any threshold of failure. The final severity level should not exceed the product specification value in order to avoid damage to the equipment.
- d. The test shall be performed with both air discharge and contact discharge. On preselected points at least 10 single discharges (in the most sensitive polarity) shall be applied on air discharge. On preselected points at least 10 single discharges (in the most sensitive polarity) shall be applied on contact discharge.
- e. For the time interval between successive single discharges an initial value of one second is recommended. Longer intervals may be determined whether a system failure has occurred.
- f. In the case of contact discharges, the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.
- g. In the case of painted surface covering a conducting substrate, the following procedure shall be adopted:
 - If the coating is not declared to be an insulating coating by the equipment manufacturer, then the pointed tip of the generator shall penetrate the coating so as to make contact with the conducting substrate.
 - Coating declared as insulating by the manufacturer shall only be submitted to the air discharge.
 - The contact discharge test shall not be applied to such surfaces.
- h. In the case of air discharges, the round discharge tip of the discharge electrode shall be approached as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator (discharge electrode) shall be removed from the EUT. The generator is then retriggered for a new single discharge. This procedure shall be repeated until the discharges are completed. In the case of an air discharge test, the discharge switch, which is used for contact discharge, shall be closed.

4.4.3 Test Setup



The test setup shall consist of a non-conductive table, (0.8 ± 0.08) m high, standing on the ground reference plane.

A horizontal coupling plane (HCP), (1.6 ± 0.02) m $\times$ (0.8 ± 0.02) m, shall be placed on the table. The EUT and its cables shall be isolated from the coupling plane by an insulating support (0.5 ± 0.05) mm in thickness.

4.4.4 Test Result of Electrostatic Discharge (ESD)

Test Site	ES01-WS	Ambient Condition	20°C/54%/100kPa
Tested By	Jim Hong		

Test Mode	1, 8, 9				
Direct Application					
Test Voltage (kV)	Polarity	Test Point	Contact Discharge	Air Discharge	Performance Criteria
2, 4, 8	+/-	1	N/A	Note	CT/CR (A)
Indirect Application					
Test Voltage (kV)	Polarity	Test Point	Horizontal Coupling Plane (HCP)	Vertical Coupling Plane (VCP)	Performance Criteria
2, 4	+/-	At front, rear, left and right side	Note	Note	CT/CR (A)

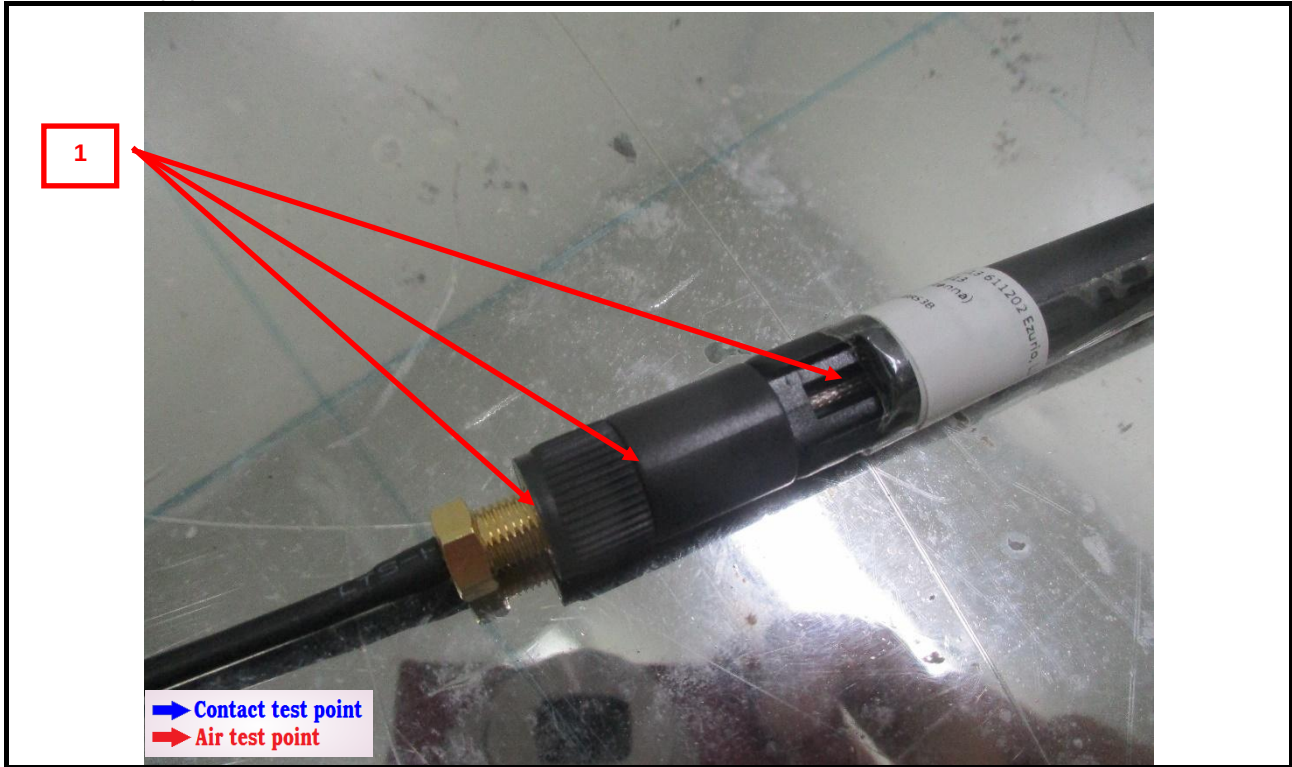
Note: There was no abnormal situation during the test compared with initial operation.

Test Mode	2 ~ 7				
Indirect Application					
Test Voltage (kV)	Polarity	Test Point	Horizontal Coupling Plane (HCP)	Vertical Coupling Plane (VCP)	Performance Criteria
2, 4	+/-	At front, rear, left and right side	Note	Note	CT/CR (A)

Note: There was no abnormal situation during the test compared with initial operation.

4.4.5 Test Point Photo

Test mode 1, 8, 9



4.5 Radio Frequency Electromagnetic Field (RS)

4.5.1 Test Specification of Radio Frequency Electromagnetic Field (RS)

Basic Standard	EN 61000-4-3
Frequency Range	80 MHz ~ 6000 MHz
Field Strength	3 V/m
Modulation	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step	1 % of preceding frequency value
Polarity of Antenna	Horizontal and Vertical
Antenna Height	1.5 m
Antenna Distance	80 MHz ~ 1000 MHz: 3 m 1000 MHz ~ 6000 MHz: 1 m
Dwell Time	3 seconds

4.5.2 Test Procedures

- The test level shall be 3 V/m (measured unmodulated). The test signal shall be amplitude modulated to a depth of 80 % by a sinusoidal audio signal of 1000 Hz. If the wanted signal is modulated at 1000 Hz, then an audio signal of 400 Hz shall be used.
- For radiated immunity, the level of the wanted signal at the input of the receiver or the enclosure port of the EUT, shall be 20 dB (± 3 dB) above the P_{min} for the EUT.
- The test shall be performed over the frequency range 80 MHz to 6000 MHz with the exception of the exclusion band for transmitters, receivers and duplex transceivers, as appropriate.
- For receivers and transmitters the stepped frequency increments shall be 1 % frequency increment of the momentary used frequency, unless specified otherwise in the part of EN 301 489 series dealing with the relevant type of radio equipment.
- Further product related spot frequency tests may be specified in the relevant part of EN 301 489 series dealing with the particular type of radio equipment.
- Responses on receivers occurring at discrete frequencies, which are narrow band responses, shall be disregarded from the test.
- The frequencies selected and used during the test shall be recorded in the test report.
- When testing at frequencies above 1 GHz, the test distance shall be 1 m when using the independent windows method. Compliance with the field uniformity requirement shall be verified for the selected test distance.
- The alternative method for frequencies above 1 GHz divides the calibration area into a suitable array of 0,5 m $\times$ 0,5 m windows such that the whole area to be occupied by the face of the EUT is covered. The field uniformity shall be independently calibrated over each window.
- During the test, at each frequency the forward power shall be applied to the field-generating antenna. The test shall be repeated with the field-generating antenna repositioned to illuminate each of the required windows in turn.

4.5.3 Exclusion bands

EN 301 489-3

- Transmitters

Where the applicable harmonised radio standard specifies an Operating Channel and an Out of Band domain, then these together shall form the exclusion band.

Where this is not so specified the exclusion bands shall be as below:

For transmitters operating, or intended to operate, in a channelized frequency band, the exclusion band is five times (i.e. $\pm 250\%$) the maximum operating channel width (OCW) allowed for that service, centred around the operating frequency.

For all other transmitters, the exclusion band is twice the intended operating frequency band centred around the centre frequency of the intended operating frequency band.

The exclusion band shall only apply when the EUT is in transmit mode of operation.

- Receivers

The exclusion band is based on the lower edge (FOClow) and the upper edge (FOChigh) and the centre (f0) of the Operating Channel (OC).

Where the OC is defined in the applicable harmonised radio standard, the values for that shall be used and f0 shall be the centre of the OC. In all other cases, f0 shall be the receiver operating frequency and the OC shall be $\pm 0,05\%$ around f0.

Lower limit of exclusion band

Lower edge of OC, FOClow	Lower limit of exclusion band
< 3 MHz	0
3 MHz to < 30 MHz	FOClow - 3 MHz
30 MHz to < 42 MHz	27 MHz
42 MHz to < 1 GHz	FOClow - 15 MHz, or FOClow - $0,05 \times f_0$, whichever is lower
1 GHz to < 1.05 GHz	950 MHz
1.05 GHz to < 6 GHz	FOClow - 100 MHz
6 GHz to < 6.3 GHz	5,9 GHz
≥ 6.3 GHz	FOClow - $0,05 \times f_0$

Upper limit of exclusion band

Upper edge of OC, FOChigh	Upper limit of exclusion band
< 300 kHz	FOChigh + 300 kHz
300 kHz to < 30 MHz	FOChigh + 3 MHz
30 MHz to < 42 MHz	FOChigh + 5 MHz
42 MHz to < 1 GHz	FOChigh + 15 MHz, or FOChigh + $0,05 \times f_0$, whichever is higher
1 GHz to < 6 GHz	FOChigh + 100 MHz
≥ 6 GHz	FOChigh + $0.05\% \times f_0$

- Duplex and multi-mode equipment

In the case of EUT tested with a simultaneous transmit and receive mode, the exclusion band used shall be the combination of the exclusion band for the transmitter and the exclusion band for the receiver. I.e. both exclusion bands shall be applied.

In the case of transmitters capable of operating on more than one frequency band, testing shall be carried out on each band separately.

In the case of receivers operating on more than one frequency, the exclusion band used shall be the combination of the exclusion bands for each frequency, i.e. an exclusion band for each frequency shall be applied.

NOTE: Where the frequencies are in the same operational frequency band, the result will usually be an enlarged single exclusion band. Where the frequencies are widely spaced, e.g. in different bands, the result will be to create multiple separate exclusion bands.

EN 301 489-17

The frequencies on which the transmitter part of the EUT is intended to operate shall be excluded from radiated emission measurements when performed in transmit mode of operation.

There shall be no frequency exclusion band applied to emission measurements of the receiver part of transceivers or the stand alone receiver under test, and/or associated ancillary equipment.

The exclusion band for immunity testing of equipment operating in the 2,4 GHz band shall be:

- lower limit of exclusion band = lowest allocated band edge frequency -120 MHz, i.e. 2 280 MHz;
- upper limit of exclusion band = highest allocated band edge frequency +120 MHz, i.e. 2 603,5MHz.

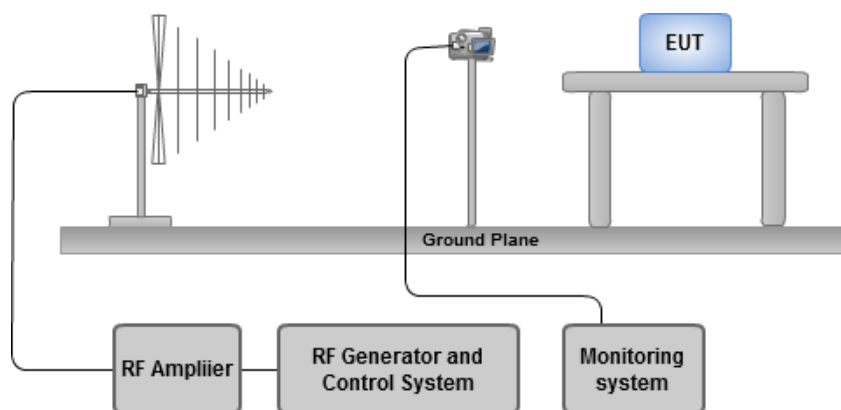
The exclusion band for immunity testing of equipment operating in the 5 GHz Wi-Fi band shall be:

- lower limit of exclusion band = lowest allocated band edge frequency -320 MHz, i.e. 4 830 MHz;
- as the immunity requirements have an upper frequency range of 6 GHz and any upper edge exclusion band would be greater than this for both the 5 470 MHz - 5 725 MHz and 5 725 MHz - 5 850 MHz bands. Therefore the test stops at the lower limit of exclusion band (i.e. 4 830 MHz).

The exclusion band for immunity testing of equipment operating in the 5,8 GHz band shall be:

- lower limit of exclusion band = lowest allocated band edge frequency -440 MHz, i.e. 5 285 MHz;
- as the immunity requirements have an upper frequency range of 6 GHz and any upper edge exclusion band would be greater than this for the 5,8 GHz band. The above frequency shall also be regarded as the upper end of the test range.

4.5.4 Test Setup



Note: The procedure defined in this part requires the generation of electromagnetic fields within which the test sample is placed and its operation observed. To generate fields that are useful for simulation of actual (field) conditions may require significant antenna drive power and the resultant high field strength levels. To comply with local regulations and to prevent biological hazards to the testing personnel, it is recommended that these tests be carried out in a shielded enclosure or semi-anechoic chamber.

4.5.5 Test Result of Radio Frequency Electromagnetic Field (RS)

Test Site	RS01-WS	Ambient Condition	19°C/63%/101kPa 20°C/64%/99kPa
Tested By	Jim Hong		

Test Mode	1 ~ 9				
Frequency Range (MHz)	Azimuth	Polarity	Test Field Strength (V/m)	Observation	Performance Criteria
80 - 6000	0	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	90	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	180	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	270	V&H	3	Note 1, 2	CT/CR (A)

Note:

- 1) There was no abnormal situation during the test compared with initial operation.
- 2) The WiFi PER shall be less than or equal to 10%.

Test Mode	10				
Frequency Range (MHz)	Azimuth	Polarity	Test Field Strength (V/m)	Observation	Performance Criteria
80 - 6000	0	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	90	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	180	V&H	3	Note 1, 2	CT/CR (A)
80 - 6000	270	V&H	3	Note 1, 2	CT/CR (A)

Note:

- 1) There was no abnormal situation during the test compared with initial operation.
- 2) The BT PER shall be less than or equal to 10%.

Test Mode

BT PER mode

X

Clear Log



Show Log File



Collapse Logs

Enter filter text

```

02/04/26 19:52:00.480 com13@115200 <c LE_Test_End
    HCI Command Complete Event
    com13@115200
    [OE 06 ]: 01 1F 20 00 A8 0B
    event = 0x0E (14, "Command Complete")
    Num_HCI_Command_Packets = 0x1 (1)
    Command_Opcode = 0x201F (8223, "LE_Test_End")
    Status = 0x0 (0, "Success")
    Num_Of_Packets_Received = 0xBA8 (2984)

```

PER (%)=	100*(1-Packets Received number / Packets Sent number)
Packet Sent Numbers	3000
Packet Received Numbers	2984
PER (%)=	0.533%

5 Photographs of the Test Configuration

Refer to Appendix D.

6 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <https://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe
District, New Taipei City 235045,
Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

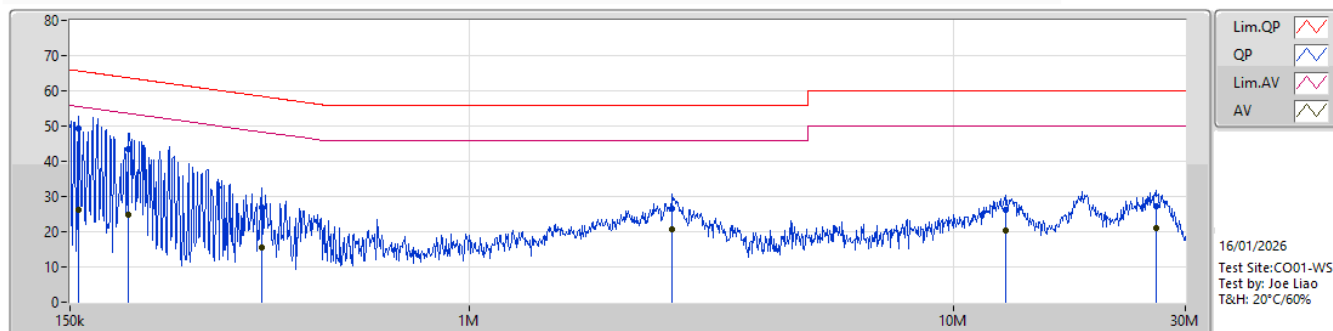
==END==

Summary

Mode	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	QP	156.109k	49.28	65.67	-16.39	9.68	Line
Mode 2	QP	159.256k	48.81	65.50	-16.69	9.68	Line
Mode 3	QP	152.414k	47.06	65.87	-18.81	9.68	Line
Mode 4	QP	154.251k	45.72	65.77	-20.05	9.68	Line
Mode 5	QP	150k	46.05	66.00	-19.95	9.67	Neutral
Mode 6	QP	152.414k	45.41	65.87	-20.46	9.68	Line
Mode 7	QP	157.361k	45.70	65.60	-19.90	9.67	Neutral
Mode 8	QP	150.6k	45.59	65.96	-20.37	9.67	Neutral
Mode 9	QP	151.202k	45.82	65.92	-20.10	9.67	Neutral
Mode 10	QP	150.6k	47.84	65.96	-18.12	9.68	Line



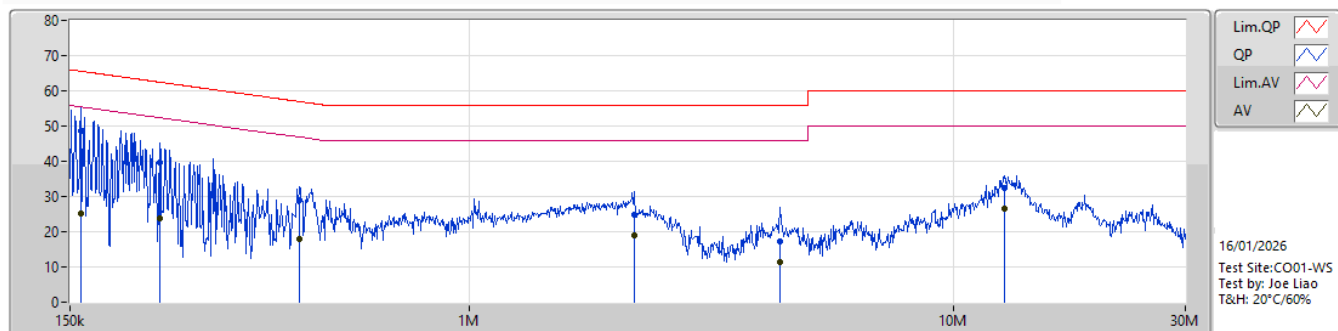
Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	156.109k	49.28	65.67	-16.39	9.68	Line	"Worst"	39.60	9.65	0.03	-						
AV	156.109k	26.16	55.67	-29.51	9.68	Line	-	16.48	9.65	0.03	-						
QP	198.359k	43.48	63.69	-20.21	9.68	Line	-	33.80	9.64	0.04	-						
AV	198.359k	24.94	53.69	-28.75	9.68	Line	-	15.26	9.64	0.04	-						
QP	372.716k	26.78	58.45	-31.67	9.68	Line	-	17.10	9.64	0.04	-						
AV	372.716k	15.50	48.45	-32.95	9.68	Line	-	5.82	9.64	0.04	-						
QP	2.625M	26.59	56.00	-29.41	9.77	Line	-	16.82	9.66	0.11	-						
AV	2.625M	20.76	46.00	-25.24	9.77	Line	"Worst"	10.99	9.66	0.11	-						
QP	12.756M	26.12	60.00	-33.88	9.96	Line	-	16.16	9.71	0.25	-						
AV	12.756M	20.51	50.00	-29.49	9.96	Line	-	10.55	9.71	0.25	-						
QP	26.064M	27.12	60.00	-32.88	9.97	Line	-	17.15	9.66	0.31	-						
AV	26.064M	21.17	50.00	-28.83	9.97	Line	-	11.20	9.66	0.31	-						



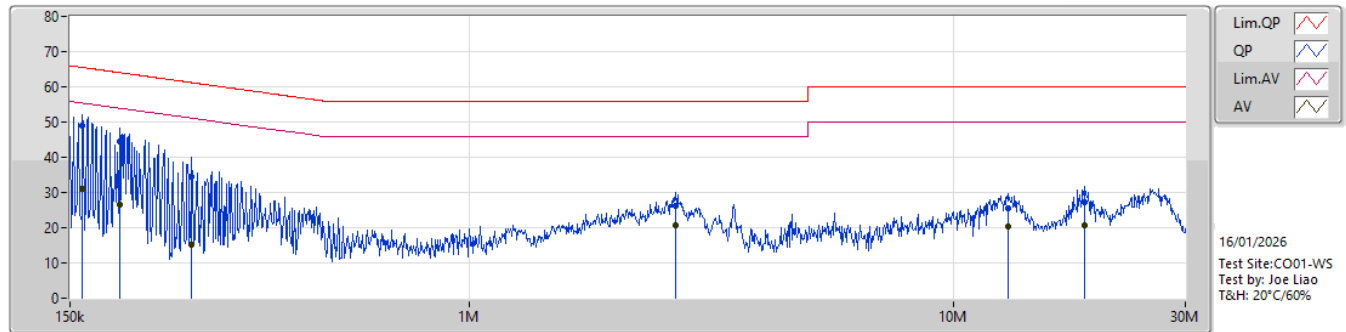
Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.99k	48.47	65.56	-17.09	9.67	Neutral	"Worst"	38.80	9.64	0.03	-						
AV	157.99k	25.26	55.56	-30.30	9.67	Neutral	-	15.59	9.64	0.03	-						
QP	229.932k	39.66	62.44	-22.78	9.68	Neutral	-	29.98	9.64	0.04	-						
AV	229.932k	23.63	52.44	-28.81	9.68	Neutral	-	13.95	9.64	0.04	-						
QP	446.062k	29.06	56.96	-27.90	9.67	Neutral	-	19.39	9.63	0.04	-						
AV	446.062k	17.93	46.96	-29.03	9.67	Neutral	-	8.26	9.63	0.04	-						
QP	2.185M	24.99	56.00	-31.01	9.75	Neutral	-	15.24	9.65	0.10	-						
AV	2.185M	19.02	46.00	-26.98	9.75	Neutral	-	9.27	9.65	0.10	-						
QP	4.376M	17.29	56.00	-38.71	9.83	Neutral	-	7.46	9.67	0.16	-						
AV	4.376M	11.48	46.00	-34.52	9.83	Neutral	-	1.65	9.67	0.16	-						
QP	12.705M	32.41	60.00	-27.59	9.99	Neutral	-	22.42	9.74	0.25	-						
AV	12.705M	26.51	50.00	-23.49	9.99	Neutral	"Worst"	16.52	9.74	0.25	-						



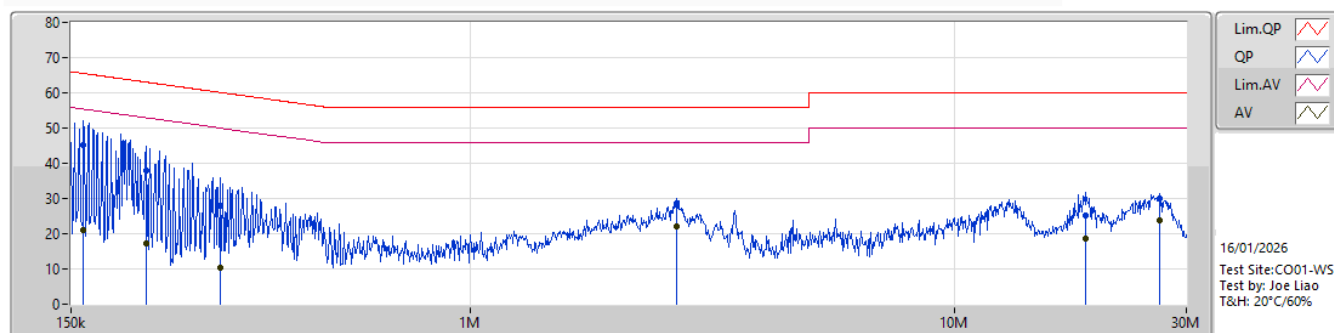
Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159.256k	48.81	65.50	-16.69	9.68	Line	"Worst"	39.13	9.65	0.03	-						
AV	159.256k	30.90	55.50	-24.60	9.68	Line	"Worst"	21.22	9.65	0.03	-						
QP	189.837k	44.34	64.05	-19.71	9.68	Line	-	34.66	9.64	0.04	-						
AV	189.837k	26.72	54.05	-27.33	9.68	Line	-	17.04	9.64	0.04	-						
QP	267.596k	34.62	61.20	-26.58	9.68	Line	-	24.94	9.64	0.04	-						
AV	267.596k	15.26	51.20	-35.94	9.68	Line	-	5.58	9.64	0.04	-						
QP	2.657M	26.35	56.00	-29.65	9.77	Line	-	16.58	9.66	0.11	-						
AV	2.657M	20.60	46.00	-25.40	9.77	Line	-	10.83	9.66	0.11	-						
QP	12.91M	25.68	60.00	-34.32	9.96	Line	-	15.72	9.71	0.25	-						
AV	12.91M	20.19	50.00	-29.81	9.96	Line	-	10.23	9.71	0.25	-						
QP	18.639M	27.09	60.00	-32.91	9.99	Line	-	17.10	9.69	0.30	-						
AV	18.639M	20.72	50.00	-29.28	9.99	Line	-	10.73	9.69	0.30	-						



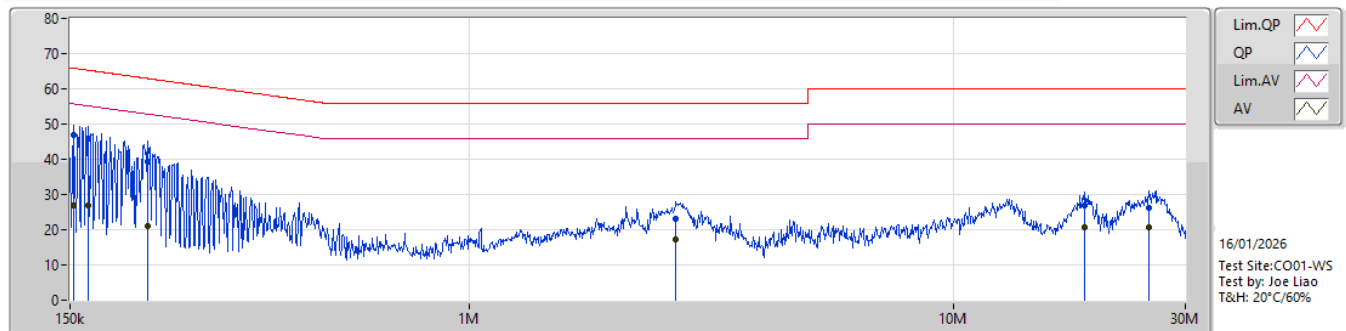
Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159.256k	45.03	65.50	-20.47	9.67	Neutral	"Worst"	35.36	9.64	0.03	-						
AV	159.256k	20.94	55.50	-34.56	9.67	Neutral	-	11.27	9.64	0.03	-						
QP	214.845k	37.84	63.02	-25.18	9.68	Neutral	-	28.16	9.64	0.04	-						
AV	214.845k	17.38	53.02	-35.64	9.68	Neutral	-	7.70	9.64	0.04	-						
QP	305.276k	28.05	60.09	-32.04	9.67	Neutral	-	18.38	9.63	0.04	-						
AV	305.276k	10.24	50.09	-39.85	9.67	Neutral	-	0.57	9.63	0.04	-						
QP	2.657M	28.59	56.00	-27.41	9.76	Neutral	-	18.83	9.65	0.11	-						
AV	2.657M	22.04	46.00	-23.96	9.76	Neutral	"Worst"	12.28	9.65	0.11	-						
QP	18.639M	25.02	60.00	-34.98	10.08	Neutral	-	14.94	9.78	0.30	-						
AV	18.639M	18.48	50.00	-31.52	10.08	Neutral	-	8.40	9.78	0.30	-						
QP	26.484M	30.06	60.00	-29.94	10.11	Neutral	-	19.95	9.79	0.32	-						
AV	26.484M	23.89	50.00	-26.11	10.11	Neutral	-	13.78	9.79	0.32	-						



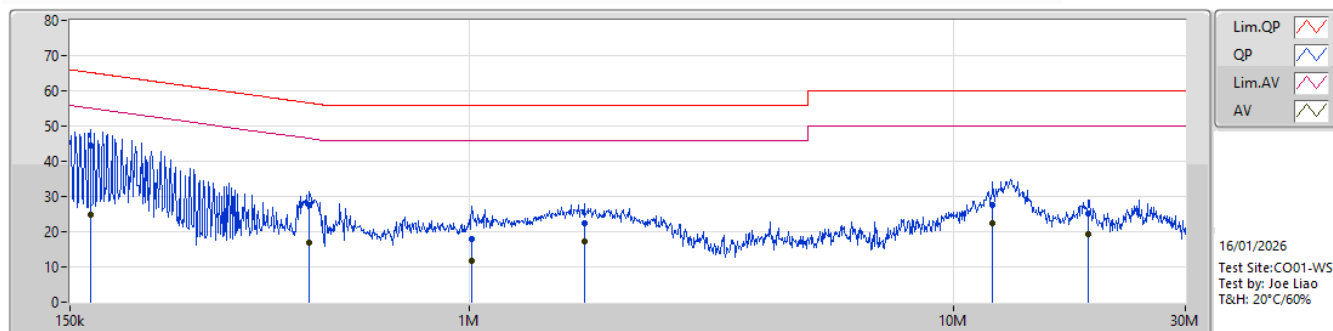
Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	152.414k	47.06	65.87	-18.81	9.68	Line	"Worst"	37.38	9.65	0.03	-						
AV	152.414k	26.87	55.87	-29.00	9.68	Line	-	17.19	9.65	0.03	-						
QP	163.117k	46.00	65.31	-19.31	9.68	Line	-	36.32	9.65	0.03	-						
AV	163.117k	26.78	55.31	-28.53	9.68	Line	"Worst"	17.10	9.65	0.03	-						
QP	217.434k	39.15	62.92	-23.77	9.68	Line	-	29.47	9.64	0.04	-						
AV	217.434k	21.03	52.92	-31.89	9.68	Line	-	11.35	9.64	0.04	-						
QP	2.667M	23.14	56.00	-32.86	9.77	Line	-	13.37	9.66	0.11	-						
AV	2.667M	17.32	46.00	-28.68	9.77	Line	-	7.55	9.66	0.11	-						
QP	18.639M	26.76	60.00	-33.24	9.99	Line	-	16.77	9.69	0.30	-						
AV	18.639M	20.54	50.00	-29.46	9.99	Line	-	10.55	9.69	0.30	-						
QP	25.245M	26.22	60.00	-33.78	9.96	Line	-	16.26	9.66	0.30	-						
AV	25.245M	20.55	50.00	-29.45	9.96	Line	-	10.59	9.66	0.30	-						



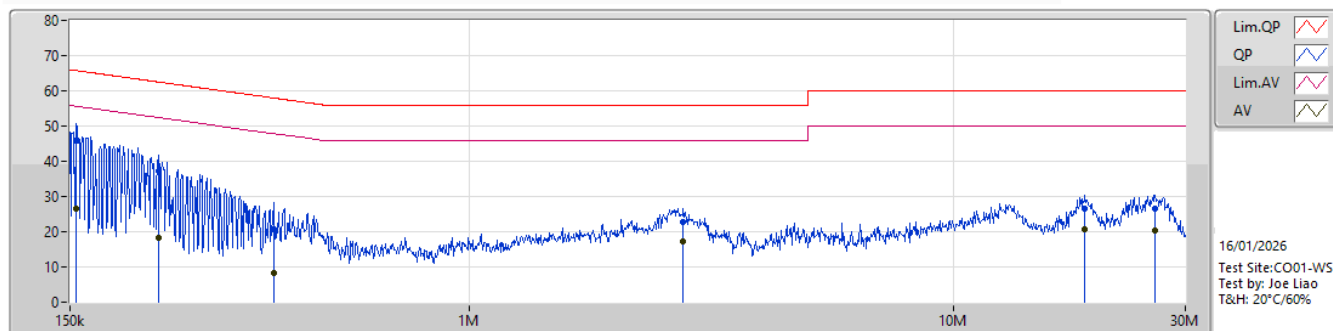
Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	165.082k	44.51	65.20	-20.69	9.67	Neutral	"Worst"	34.84	9.64	0.03	-						
AV	165.082k	24.96	55.20	-30.24	9.67	Neutral	-	15.29	9.64	0.03	-						
QP	467.95k	27.47	56.55	-29.08	9.67	Neutral	-	17.80	9.63	0.04	-						
AV	467.95k	17.03	46.55	-29.52	9.67	Neutral	-	7.36	9.63	0.04	-						
QP	1.011M	17.86	56.00	-38.14	9.70	Neutral	-	8.16	9.64	0.06	-						
AV	1.011M	11.80	46.00	-34.20	9.70	Neutral	-	2.10	9.64	0.06	-						
QP	1.726M	22.56	56.00	-33.44	9.73	Neutral	-	12.83	9.65	0.08	-						
AV	1.726M	17.09	46.00	-28.91	9.73	Neutral	-	7.36	9.65	0.08	-						
QP	12.015M	27.66	60.00	-32.34	9.98	Neutral	-	17.68	9.74	0.24	-						
AV	12.015M	22.31	50.00	-27.69	9.98	Neutral	"Worst"	12.33	9.74	0.24	-						
QP	18.939M	25.10	60.00	-34.90	10.08	Neutral	-	15.02	9.78	0.30	-						
AV	18.939M	19.21	50.00	-30.79	10.08	Neutral	-	9.13	9.78	0.30	-						

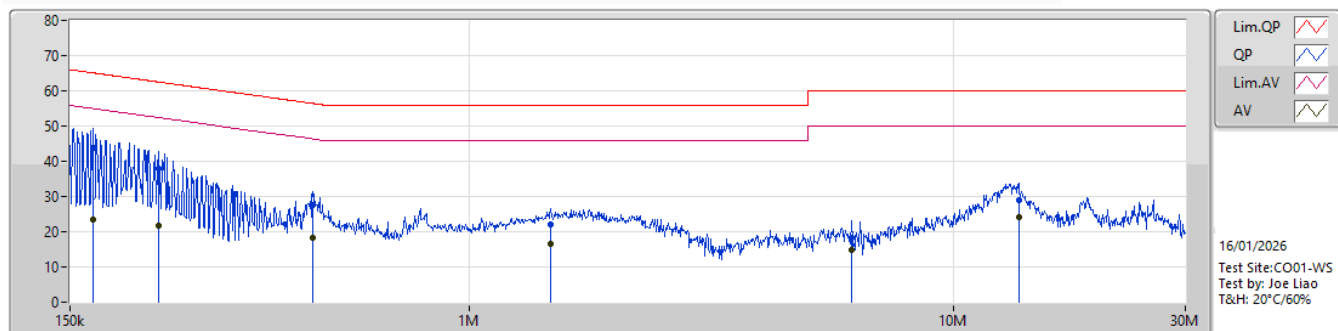


Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.251k	45.72	65.77	-20.05	9.68	Line	"Worst"	36.04	9.65	0.03	-						
AV	154.251k	26.45	55.77	-29.32	9.68	Line	-	16.77	9.65	0.03	-						
QP	228.103k	37.27	62.52	-25.25	9.68	Line	-	27.59	9.64	0.04	-						
AV	228.103k	18.44	52.52	-34.08	9.68	Line	-	8.76	9.64	0.04	-						
QP	394.139k	20.79	57.97	-37.18	9.68	Line	-	11.11	9.64	0.04	-						
AV	394.139k	8.12	47.97	-39.85	9.68	Line	-	-1.56	9.64	0.04	-						
QP	2.765M	22.59	56.00	-33.41	9.78	Line	-	12.81	9.66	0.12	-						
AV	2.765M	17.19	46.00	-28.81	9.78	Line	"Worst"	7.41	9.66	0.12	-						
QP	18.639M	26.52	60.00	-33.48	9.99	Line	-	16.53	9.69	0.30	-						
AV	18.639M	20.61	50.00	-29.39	9.99	Line	-	10.62	9.69	0.30	-						
QP	25.961M	26.41	60.00	-33.59	9.97	Line	-	16.44	9.66	0.31	-						
AV	25.961M	20.49	50.00	-29.51	9.97	Line	-	10.52	9.66	0.31	-						

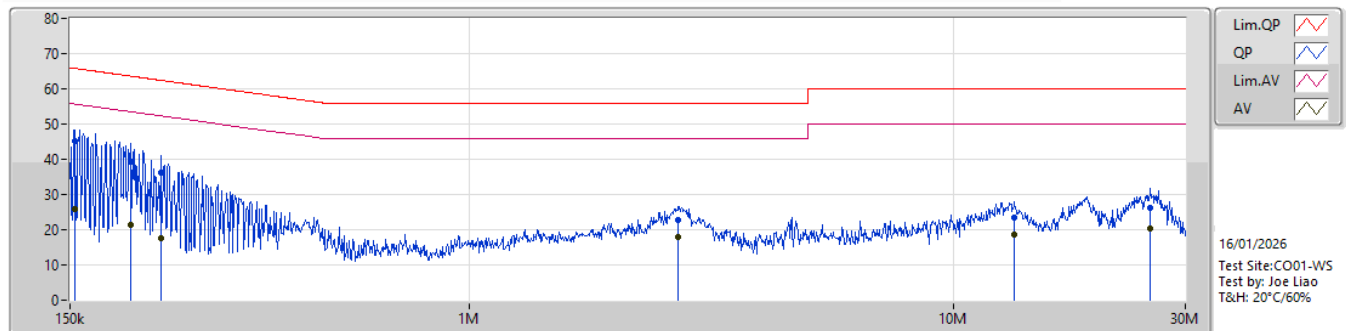
Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	167.071k	43.90	65.10	-21.20	9.67	Neutral	"Worst"	34.23	9.64	0.03	-						
AV	167.071k	23.34	55.10	-31.76	9.67	Neutral	-	13.67	9.64	0.03	-						
QP	228.103k	38.07	62.52	-24.45	9.68	Neutral	-	28.39	9.64	0.04	-						
AV	228.103k	21.57	52.52	-30.95	9.68	Neutral	-	11.89	9.64	0.04	-						
QP	475.482k	27.45	56.42	-28.97	9.67	Neutral	-	17.78	9.63	0.04	-						
AV	475.482k	18.17	46.42	-28.25	9.67	Neutral	-	8.50	9.63	0.04	-						
QP	1.472M	22.19	56.00	-33.81	9.73	Neutral	-	12.46	9.65	0.08	-						
AV	1.472M	16.52	46.00	-29.48	9.73	Neutral	-	6.79	9.65	0.08	-						
QP	6.144M	18.22	60.00	-41.78	9.88	Neutral	-	8.34	9.69	0.19	-						
AV	6.144M	14.84	50.00	-35.16	9.88	Neutral	-	4.96	9.69	0.19	-						
QP	13.597M	28.82	60.00	-31.18	10.00	Neutral	-	18.82	9.75	0.25	-						
AV	13.597M	24.14	50.00	-25.86	10.00	Neutral	"Worst"	14.14	9.75	0.25	-						



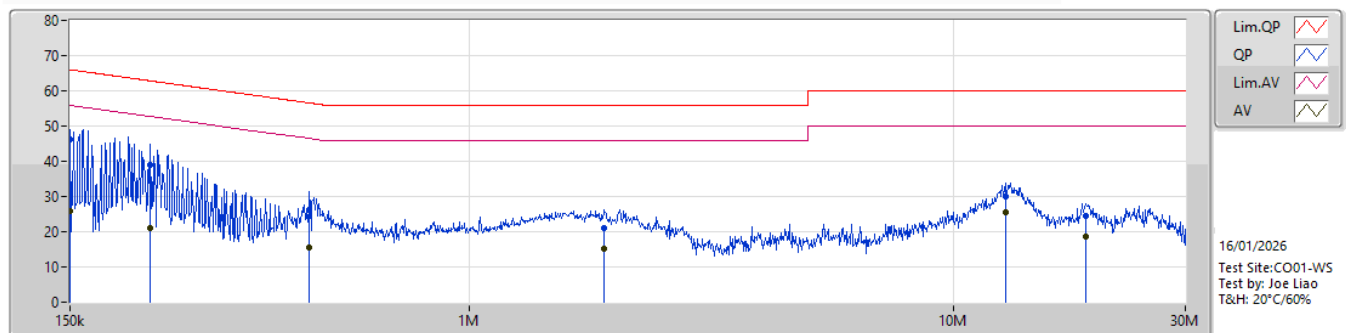
Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	153.636k	45.14	65.81	-20.67	9.68	Line	"Worst"	35.46	9.65	0.03	-						
AV	153.636k	25.71	55.81	-30.10	9.68	Line	-	16.03	9.65	0.03	-						
QP	199.949k	39.19	63.61	-24.42	9.68	Line	-	29.51	9.64	0.04	-						
AV	199.949k	21.52	53.61	-32.09	9.68	Line	-	11.84	9.64	0.04	-						
QP	230.851k	36.31	62.42	-26.11	9.68	Line	-	26.63	9.64	0.04	-						
AV	230.851k	17.50	52.42	-34.92	9.68	Line	-	7.82	9.64	0.04	-						
QP	2.7M	22.66	56.00	-33.34	9.78	Line	-	12.88	9.66	0.12	-						
AV	2.7M	18.05	46.00	-27.95	9.78	Line	"Worst"	8.27	9.66	0.12	-						
QP	13.329M	23.45	60.00	-36.55	9.96	Line	-	13.49	9.71	0.25	-						
AV	13.329M	18.69	50.00	-31.31	9.96	Line	-	8.73	9.71	0.25	-						
QP	25.448M	26.29	60.00	-33.71	9.97	Line	-	16.32	9.66	0.31	-						
AV	25.448M	20.42	50.00	-29.58	9.97	Line	-	10.45	9.66	0.31	-						



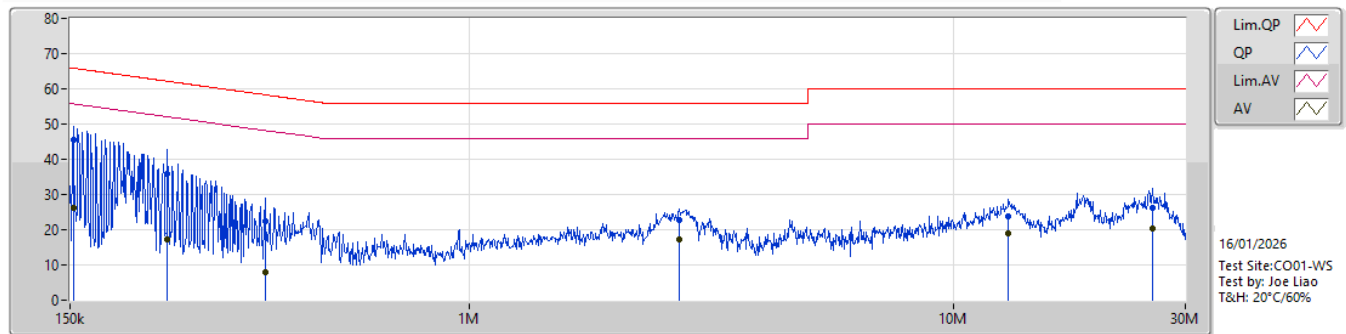
Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	46.05	66.00	-19.95	9.67	Neutral	"Worst"	36.38	9.64	0.03	-						
AV	150k	26.02	56.00	-29.98	9.67	Neutral	-	16.35	9.64	0.03	-						
QP	220.053k	38.87	62.81	-23.94	9.68	Neutral	-	29.19	9.64	0.04	-						
AV	220.053k	21.03	52.81	-31.78	9.68	Neutral	-	11.35	9.64	0.04	-						
QP	467.95k	26.09	56.55	-30.46	9.67	Neutral	-	16.42	9.63	0.04	-						
AV	467.95k	15.67	46.55	-30.88	9.67	Neutral	-	6.00	9.63	0.04	-						
QP	1.9M	21.01	56.00	-34.99	9.74	Neutral	-	11.27	9.65	0.09	-						
AV	1.9M	15.21	46.00	-30.79	9.74	Neutral	-	5.47	9.65	0.09	-						
QP	12.756M	29.83	60.00	-30.17	9.99	Neutral	-	19.84	9.74	0.25	-						
AV	12.756M	25.50	50.00	-24.50	9.99	Neutral	"Worst"	15.51	9.74	0.25	-						
QP	18.713M	24.54	60.00	-35.46	10.08	Neutral	-	14.46	9.78	0.30	-						
AV	18.713M	18.57	50.00	-31.43	10.08	Neutral	-	8.49	9.78	0.30	-						



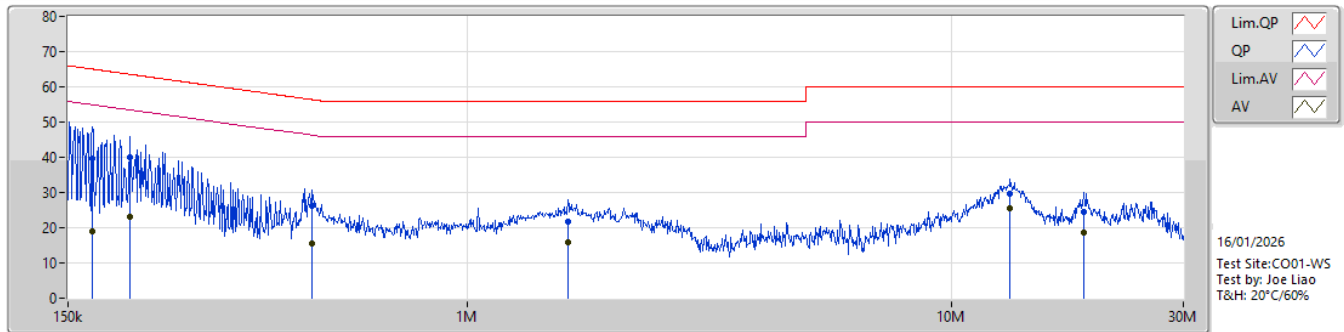
Mode 6



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	152.414k	45.41	65.87	-20.46	9.68	Line	"Worst"	35.73	9.65	0.03	-						
AV	152.414k	26.07	55.87	-29.80	9.68	Line	-	16.39	9.65	0.03	-						
QP	238.343k	35.70	62.16	-26.46	9.68	Line	-	26.02	9.64	0.04	-						
AV	238.343k	17.31	52.16	-34.85	9.68	Line	-	7.63	9.64	0.04	-						
QP	378.715k	22.40	58.31	-35.91	9.68	Line	-	12.72	9.64	0.04	-						
AV	378.715k	8.05	48.31	-40.26	9.68	Line	-	-1.63	9.64	0.04	-						
QP	2.71M	22.62	56.00	-33.38	9.78	Line	-	12.84	9.66	0.12	-						
AV	2.71M	17.36	46.00	-28.64	9.78	Line	"Worst"	7.58	9.66	0.12	-						
QP	12.961M	23.82	60.00	-36.18	9.96	Line	-	13.86	9.71	0.25	-						
AV	12.961M	19.13	50.00	-30.87	9.96	Line	-	9.17	9.71	0.25	-						
QP	25.652M	26.20	60.00	-33.80	9.97	Line	-	16.23	9.66	0.31	-						
AV	25.652M	20.32	50.00	-29.68	9.97	Line	-	10.35	9.66	0.31	-						



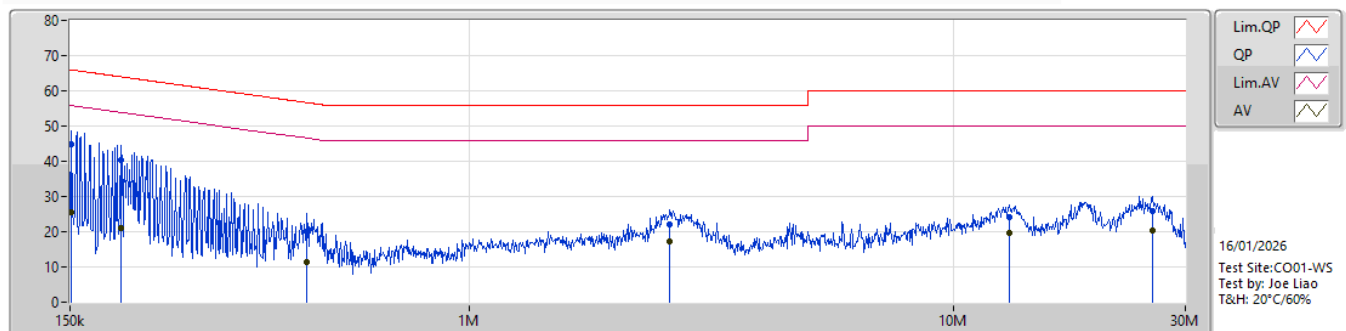
Mode 6



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	168.41k	39.55	65.04	-25.49	9.67	Neutral	-	29.88	9.64	0.03	-						
AV	168.41k	18.98	55.04	-36.06	9.67	Neutral	-	9.31	9.64	0.03	-						
QP	200.748k	40.09	63.57	-23.48	9.68	Neutral	"Worst"	30.41	9.64	0.04	-						
AV	200.748k	23.18	53.57	-30.39	9.68	Neutral	-	13.50	9.64	0.04	-						
QP	479.294k	26.25	56.34	-30.09	9.67	Neutral	-	16.58	9.63	0.04	-						
AV	479.294k	15.56	46.34	-30.78	9.67	Neutral	-	5.89	9.63	0.04	-						
QP	1.613M	21.59	56.00	-34.41	9.73	Neutral	-	11.86	9.65	0.08	-						
AV	1.613M	16.02	46.00	-29.98	9.73	Neutral	-	6.29	9.65	0.08	-						
QP	13.17M	29.75	60.00	-30.25	10.00	Neutral	-	19.75	9.75	0.25	-						
AV	13.17M	25.51	50.00	-24.49	10.00	Neutral	"Worst"	15.51	9.75	0.25	-						
QP	18.713M	24.33	60.00	-35.67	10.08	Neutral	-	14.25	9.78	0.30	-						
AV	18.713M	18.60	50.00	-31.40	10.08	Neutral	-	8.52	9.78	0.30	-						



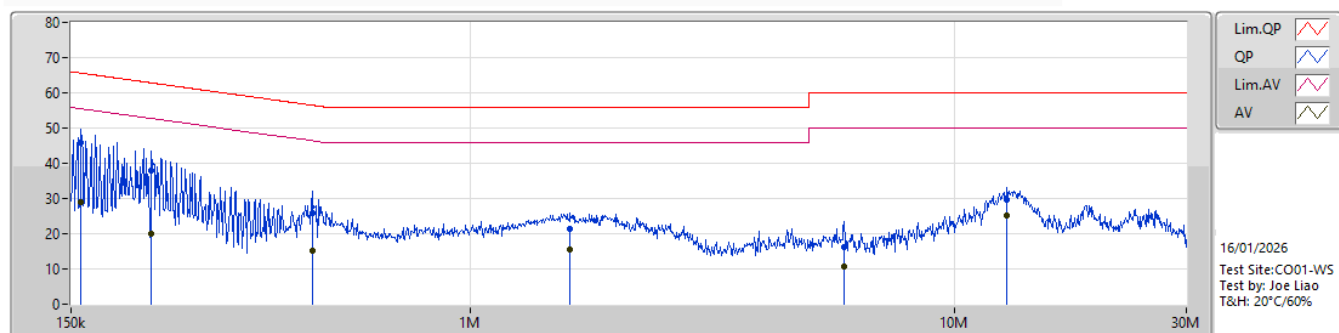
Mode 7



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.202k	44.98	65.92	-20.94	9.68	Line	"Worst"	35.30	9.65	0.03	-						
AV	151.202k	25.43	55.92	-30.49	9.68	Line	-	15.75	9.65	0.03	-						
QP	190.596k	40.49	64.01	-23.52	9.68	Line	-	30.81	9.64	0.04	-						
AV	190.596k	21.00	54.01	-33.01	9.68	Line	-	11.32	9.64	0.04	-						
QP	462.379k	19.92	56.65	-36.73	9.68	Line	-	10.24	9.64	0.04	-						
AV	462.379k	11.23	46.65	-35.42	9.68	Line	-	1.55	9.64	0.04	-						
QP	2.594M	21.99	56.00	-34.01	9.77	Line	-	12.22	9.66	0.11	-						
AV	2.594M	17.08	46.00	-28.92	9.77	Line	"Worst"	7.31	9.66	0.11	-						
QP	13.013M	24.07	60.00	-35.93	9.96	Line	-	14.11	9.71	0.25	-						
AV	13.013M	19.53	50.00	-30.47	9.96	Line	-	9.57	9.71	0.25	-						
QP	25.652M	25.85	60.00	-34.15	9.97	Line	-	15.88	9.66	0.31	-						
AV	25.652M	20.18	50.00	-29.82	9.97	Line	-	10.21	9.66	0.31	-						



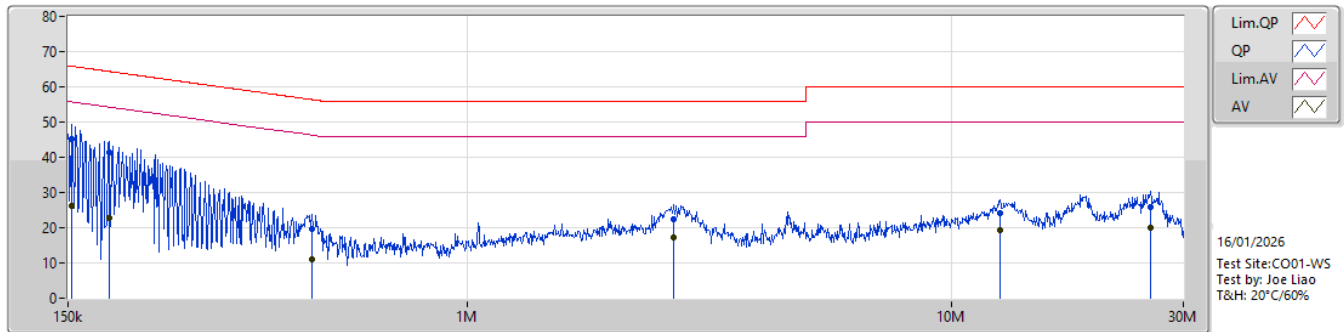
Mode 7



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.361k	45.70	65.60	-19.90	9.67	Neutral	"Worst"	36.03	9.64	0.03	-						
AV	157.361k	29.12	55.60	-26.48	9.67	Neutral	-	19.45	9.64	0.03	-						
QP	220.053k	37.87	62.81	-24.94	9.68	Neutral	-	28.19	9.64	0.04	-						
AV	220.053k	19.95	52.81	-32.86	9.68	Neutral	-	10.27	9.64	0.04	-						
QP	471.701k	25.88	56.48	-30.60	9.67	Neutral	-	16.21	9.63	0.04	-						
AV	471.701k	15.05	46.48	-31.43	9.67	Neutral	-	5.38	9.63	0.04	-						
QP	1.607M	21.52	56.00	-34.48	9.73	Neutral	-	11.79	9.65	0.08	-						
AV	1.607M	15.42	46.00	-30.58	9.73	Neutral	-	5.69	9.65	0.08	-						
QP	5.903M	16.25	60.00	-43.75	9.87	Neutral	-	6.38	9.69	0.18	-						
AV	5.903M	10.57	50.00	-39.43	9.87	Neutral	-	0.70	9.69	0.18	-						
QP	12.807M	29.52	60.00	-30.48	9.99	Neutral	-	19.53	9.74	0.25	-						
AV	12.807M	25.16	50.00	-24.84	9.99	Neutral	"Worst"	15.17	9.74	0.25	-						



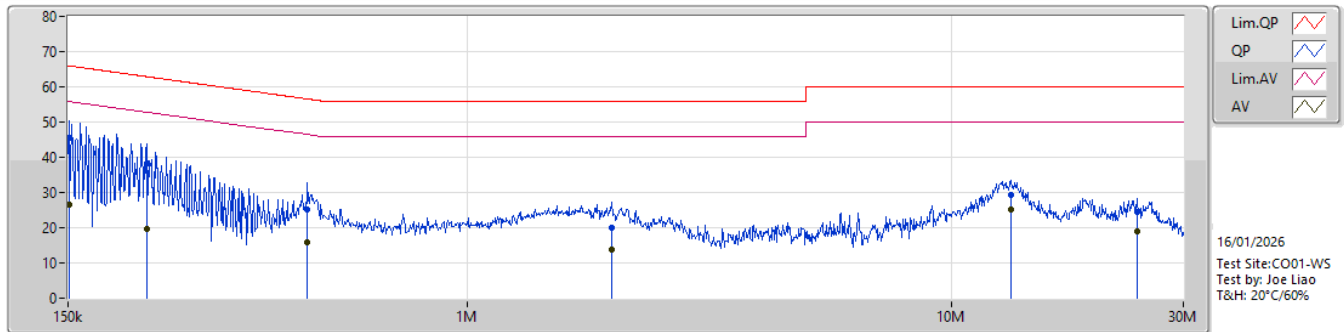
Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	153.024k	45.10	65.83	-20.73	9.68	Line	"Worst"	35.42	9.65	0.03	-						
AV	153.024k	26.32	55.83	-29.51	9.68	Line	-	16.64	9.65	0.03	-						
QP	182.408k	41.51	64.37	-22.86	9.68	Line	-	31.83	9.64	0.04	-						
AV	182.408k	22.68	54.37	-31.69	9.68	Line	-	13.00	9.64	0.04	-						
QP	477.384k	19.61	56.38	-36.77	9.68	Line	-	9.93	9.64	0.04	-						
AV	477.384k	11.06	46.38	-35.32	9.68	Line	-	1.38	9.64	0.04	-						
QP	2.667M	22.25	56.00	-33.75	9.77	Line	-	12.48	9.66	0.11	-						
AV	2.667M	17.18	46.00	-28.82	9.77	Line	"Worst"	7.41	9.66	0.11	-						
QP	12.554M	24.09	60.00	-35.91	9.96	Line	-	14.13	9.71	0.25	-						
AV	12.554M	19.36	50.00	-30.64	9.96	Line	-	9.40	9.71	0.25	-						
QP	25.652M	25.72	60.00	-34.28	9.97	Line	-	15.75	9.66	0.31	-						
AV	25.652M	19.94	50.00	-30.06	9.97	Line	-	9.97	9.66	0.31	-						



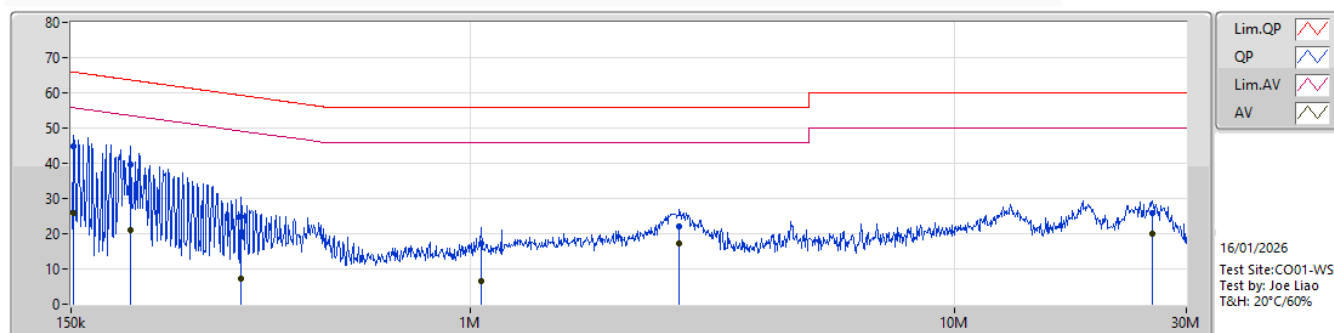
Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150.6k	45.59	65.96	-20.37	9.67	Neutral	"Worst"	35.92	9.64	0.03	-						
AV	150.6k	26.54	55.96	-29.42	9.67	Neutral	-	16.87	9.64	0.03	-						
QP	218.303k	38.18	62.88	-24.70	9.68	Neutral	-	28.50	9.64	0.04	-						
AV	218.303k	19.75	52.88	-33.13	9.68	Neutral	-	10.07	9.64	0.04	-						
QP	467.95k	25.01	56.55	-31.54	9.67	Neutral	-	15.34	9.63	0.04	-						
AV	467.95k	15.79	46.55	-30.76	9.67	Neutral	-	6.12	9.63	0.04	-						
QP	1.985M	19.85	56.00	-36.15	9.74	Neutral	-	10.11	9.65	0.09	-						
AV	1.985M	13.74	46.00	-32.26	9.74	Neutral	-	4.00	9.65	0.09	-						
QP	13.223M	29.36	60.00	-30.64	10.00	Neutral	-	19.36	9.75	0.25	-						
AV	13.223M	25.29	50.00	-24.71	10.00	Neutral	"Worst"	15.29	9.75	0.25	-						
QP	24.064M	24.59	60.00	-35.41	10.09	Neutral	-	14.50	9.79	0.30	-						
AV	24.064M	19.02	50.00	-30.98	10.09	Neutral	-	8.93	9.79	0.30	-						



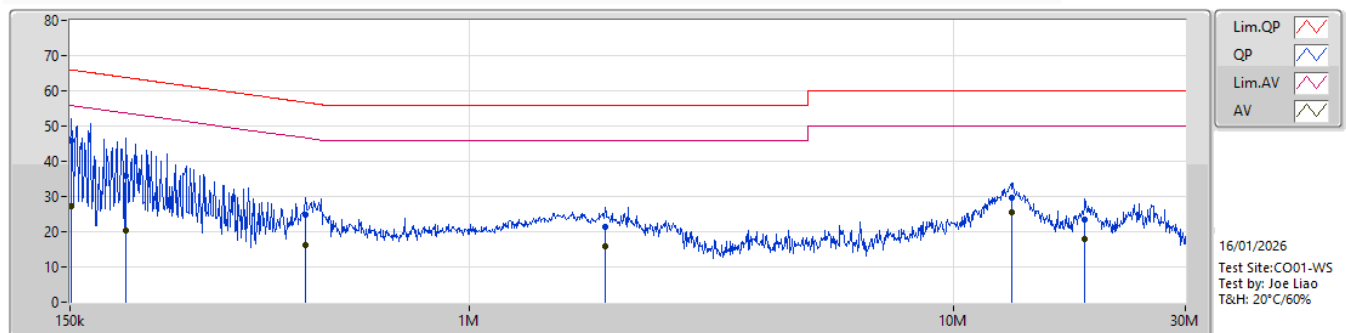
Mode 9



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.807k	44.80	65.90	-21.10	9.68	Line	"Worst"	35.12	9.65	0.03	-						
AV	151.807k	25.70	55.90	-30.20	9.68	Line	-	16.02	9.65	0.03	-						
QP	199.152k	39.66	63.65	-23.99	9.68	Line	-	29.98	9.64	0.04	-						
AV	199.152k	21.15	53.65	-32.50	9.68	Line	-	11.47	9.64	0.04	-						
QP	335.971k	24.99	59.31	-34.32	9.68	Line	-	15.31	9.64	0.04	-						
AV	335.971k	7.15	49.31	-42.16	9.68	Line	-	-2.53	9.64	0.04	-						
QP	1.052M	17.07	56.00	-38.93	9.71	Line	-	7.36	9.65	0.06	-						
AV	1.052M	6.72	46.00	-39.28	9.71	Line	-	-2.99	9.65	0.06	-						
QP	2.7M	22.08	56.00	-33.92	9.78	Line	-	12.30	9.66	0.12	-						
AV	2.7M	17.39	46.00	-28.61	9.78	Line	"Worst"	7.61	9.66	0.12	-						
QP	25.549M	25.84	60.00	-34.16	9.97	Line	-	15.87	9.66	0.31	-						
AV	25.549M	19.89	50.00	-30.11	9.97	Line	-	9.92	9.66	0.31	-						



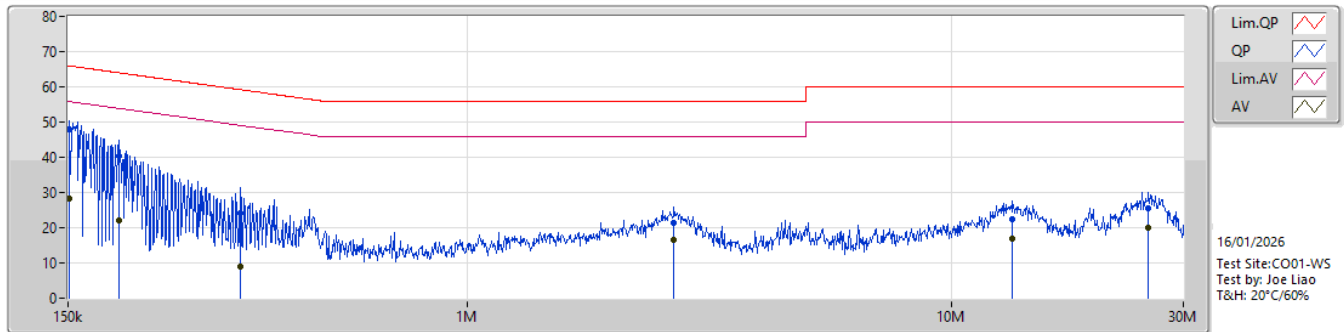
Mode 9



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.202k	45.82	65.92	-20.10	9.67	Neutral	"Worst"	36.15	9.64	0.03	-						
AV	151.202k	27.24	55.92	-28.68	9.67	Neutral	-	17.57	9.64	0.03	-						
QP	195.216k	35.96	63.80	-27.84	9.68	Neutral	-	26.28	9.64	0.04	-						
AV	195.216k	20.28	53.80	-33.52	9.68	Neutral	-	10.60	9.64	0.04	-						
QP	458.702k	24.68	56.71	-32.03	9.67	Neutral	-	15.01	9.63	0.04	-						
AV	458.702k	16.16	46.71	-30.55	9.67	Neutral	-	6.49	9.63	0.04	-						
QP	1.908M	21.39	56.00	-34.61	9.74	Neutral	-	11.65	9.65	0.09	-						
AV	1.908M	15.76	46.00	-30.24	9.74	Neutral	-	6.02	9.65	0.09	-						
QP	13.117M	29.70	60.00	-30.30	10.00	Neutral	-	19.70	9.75	0.25	-						
AV	13.117M	25.43	50.00	-24.57	10.00	Neutral	"Worst"	15.43	9.75	0.25	-						
QP	18.639M	23.50	60.00	-36.50	10.08	Neutral	-	13.42	9.78	0.30	-						
AV	18.639M	17.78	50.00	-32.22	10.08	Neutral	-	7.70	9.78	0.30	-						



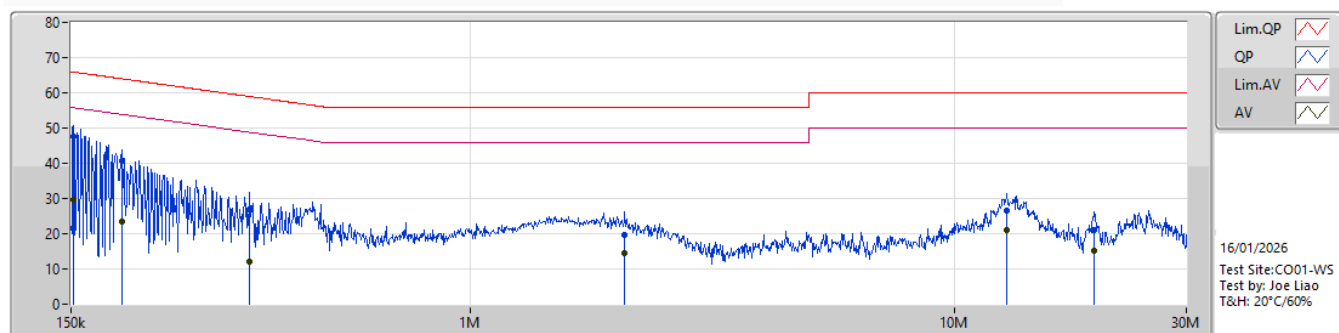
Mode 10



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150.6k	47.84	65.96	-18.12	9.68	Line	"Worst"	38.16	9.65	0.03	-						
AV	150.6k	28.32	55.96	-27.64	9.68	Line	"Worst"	18.64	9.65	0.03	-						
QP	190.596k	40.46	64.01	-23.55	9.68	Line	-	30.78	9.64	0.04	-						
AV	190.596k	22.22	54.01	-31.79	9.68	Line	-	12.54	9.64	0.04	-						
QP	340.018k	23.98	59.19	-35.21	9.68	Line	-	14.30	9.64	0.04	-						
AV	340.018k	8.84	49.19	-40.35	9.68	Line	-	-0.84	9.64	0.04	-						
QP	2.667M	21.25	56.00	-34.75	9.77	Line	-	11.48	9.66	0.11	-						
AV	2.667M	16.55	46.00	-29.45	9.77	Line	-	6.78	9.66	0.11	-						
QP	13.329M	22.49	60.00	-37.51	9.96	Line	-	12.53	9.71	0.25	-						
AV	13.329M	16.75	50.00	-33.25	9.96	Line	-	6.79	9.71	0.25	-						
QP	25.448M	25.49	60.00	-34.51	9.97	Line	-	15.52	9.66	0.31	-						
AV	25.448M	19.99	50.00	-30.01	9.97	Line	-	10.02	9.66	0.31	-						



Mode 10



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.807k	47.42	65.90	-18.48	9.67	Neutral	"Worst"	37.75	9.64	0.03	-						
AV	151.807k	29.53	55.90	-26.37	9.67	Neutral	"Worst"	19.86	9.64	0.03	-						
QP	190.596k	40.56	64.01	-23.45	9.68	Neutral	-	30.88	9.64	0.04	-						
AV	190.596k	23.33	54.01	-30.68	9.68	Neutral	-	13.65	9.64	0.04	-						
QP	351.053k	26.97	58.94	-31.97	9.67	Neutral	-	17.30	9.63	0.04	-						
AV	351.053k	11.93	48.94	-37.01	9.67	Neutral	-	2.26	9.63	0.04	-						
QP	2.083M	19.60	56.00	-36.40	9.74	Neutral	-	9.86	9.65	0.09	-						
AV	2.083M	14.44	46.00	-31.56	9.74	Neutral	-	4.70	9.65	0.09	-						
QP	12.807M	26.47	60.00	-33.53	9.99	Neutral	-	16.48	9.74	0.25	-						
AV	12.807M	21.14	50.00	-28.86	9.99	Neutral	-	11.15	9.74	0.25	-						
QP	19.398M	21.05	60.00	-38.95	10.09	Neutral	-	10.96	9.79	0.30	-						
AV	19.398M	15.22	50.00	-34.78	10.09	Neutral	-	5.13	9.79	0.30	-						

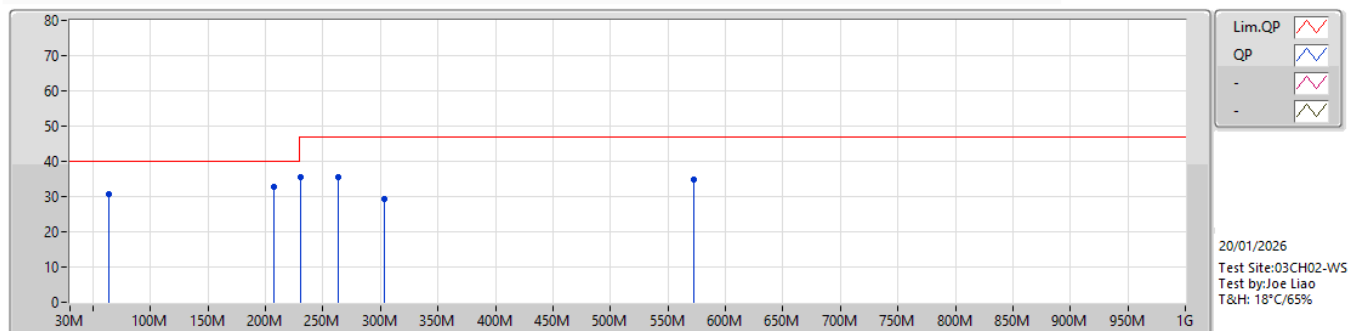


Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Condition	Azimuth (°)	Height (m)
Mode 1	PK	224.8M	36.72	40.00	-3.28	-11.47	Horizontal	-	-



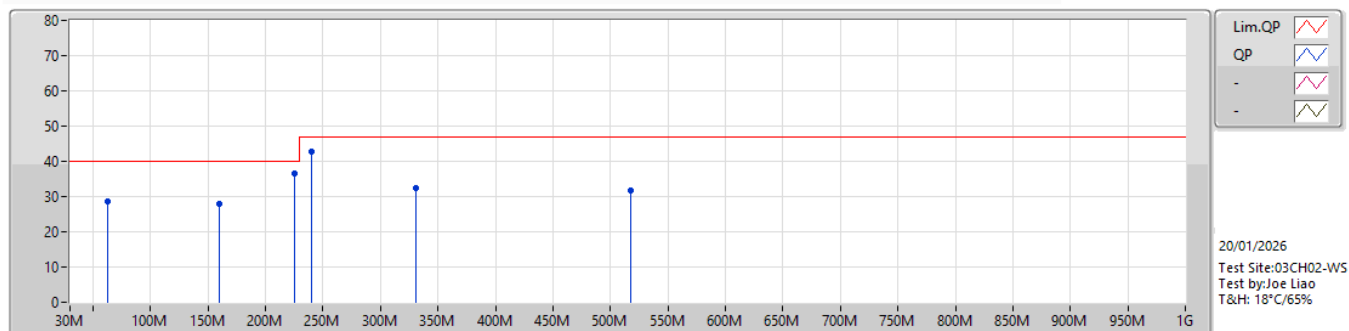
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	63.37M	30.74	40.00	-9.26	-9.22	3	Vertical	-	-	-	39.96	17.76	1.19	28.17		
PK	207.33M	32.85	40.00	-7.15	-11.37	3	Vertical	-	-	"Worst"	44.22	15.05	1.74	28.16		
PK	230.71M	35.59	47.00	-11.41	-10.96	3	Vertical	-	-	-	46.55	15.40	1.79	28.15		
PK	263.79M	35.36	47.00	-11.64	-8.91	3	Vertical	-	-	-	44.27	17.35	1.87	28.13		
PK	303.57M	29.30	47.00	-17.70	-7.39	3	Vertical	-	-	-	36.69	18.74	1.99	28.12		
PK	572.96M	34.67	47.00	-12.33	-1.08	3	Vertical	-	-	-	35.75	24.22	2.70	28.00		



Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	63.08M	28.56	40.00	-11.44	-9.20	3	Horizontal	-	-	-	37.76	17.79	1.18	28.17		
PK	159.6M	28.01	40.00	-11.99	-8.10	3	Horizontal	-	-	-	36.11	18.44	1.60	28.14		
PK	224.8M	36.72	40.00	-3.28	-11.47	3	Horizontal	-	-	"Worst"	48.19	14.90	1.78	28.15		
PK	239.83M	42.70	47.00	-4.30	-9.86	3	Horizontal	-	-	-	52.56	16.48	1.80	28.14		
PK	330.54M	32.41	47.00	-14.59	-6.68	3	Horizontal	-	-	-	39.09	19.31	2.11	28.10		
PK	518.06M	31.83	47.00	-15.17	-2.17	3	Horizontal	-	-	-	34.00	23.26	2.59	28.02		

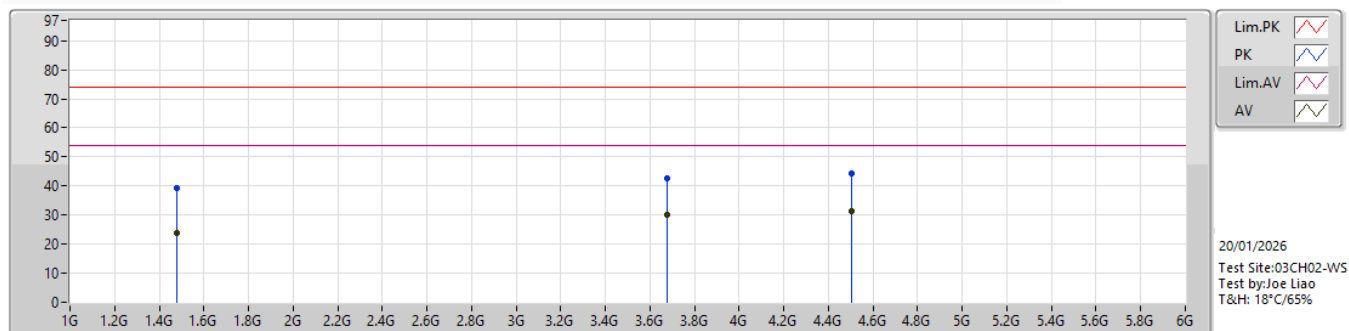


Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Condition	Azimuth (°)	Height (m)
Mode 1	AV	4.503G	31.28	54.00	-22.72	3.91	Vertical	184	1.00



Mode 1

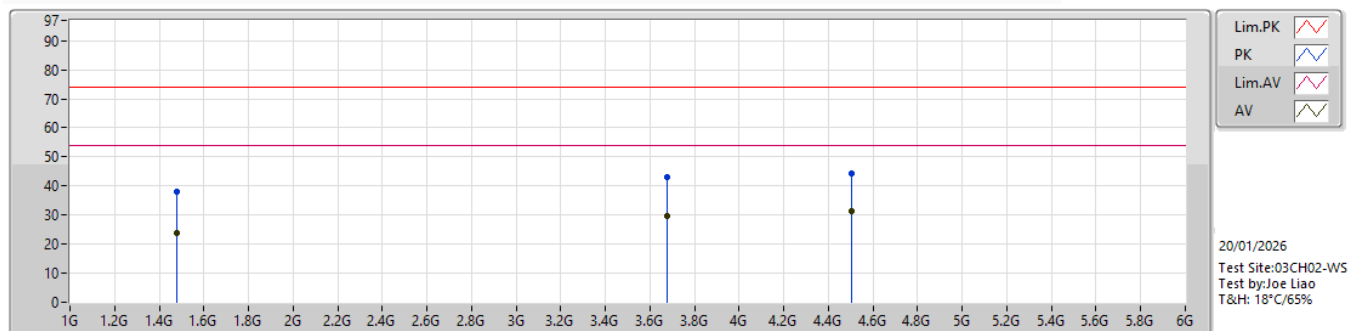


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.481G	39.41	74.00	-34.59	-7.47	3	Vertical	247	1.00	-	46.88	25.38	2.36	35.21		
AV	1.481G	23.76	54.00	-30.24	-7.47	3	Vertical	247	1.00	-	31.23	25.38	2.36	35.21		
PK	3.675G	42.81	74.00	-31.19	1.65	3	Vertical	58	1.00	-	41.16	30.85	3.92	33.12		
AV	3.675G	30.02	54.00	-23.98	1.65	3	Vertical	58	1.00	-	28.37	30.85	3.92	33.12		
PK	4.503G	44.13	74.00	-29.87	3.91	3	Vertical	184	1.00	"Worst"	40.22	32.01	4.48	32.58		
AV	4.503G	31.28	54.00	-22.72	3.91	3	Vertical	184	1.00	"Worst"	27.37	32.01	4.48	32.58		

Note: The emission levels of the other frequencies were significantly within the prescribed regulatory limits.



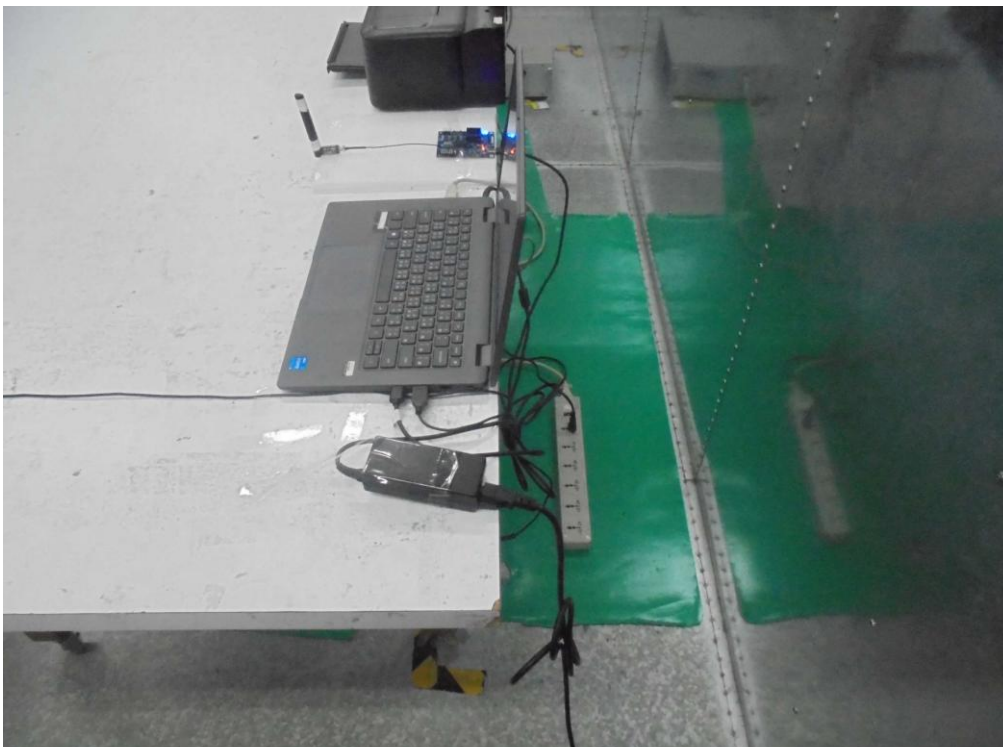
Mode 1



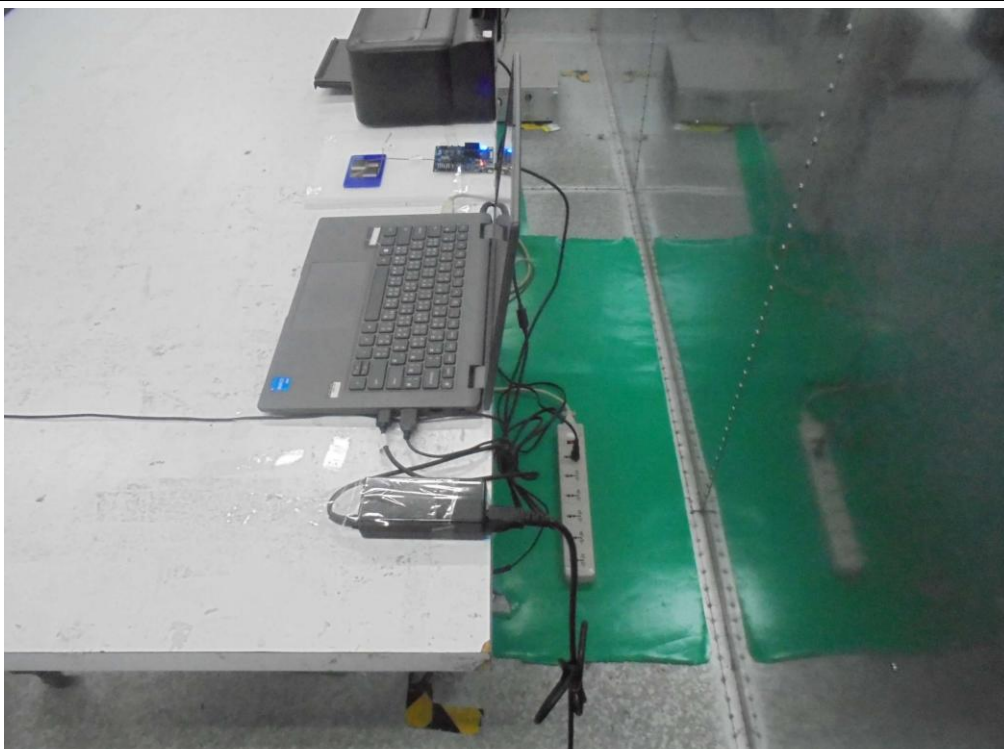
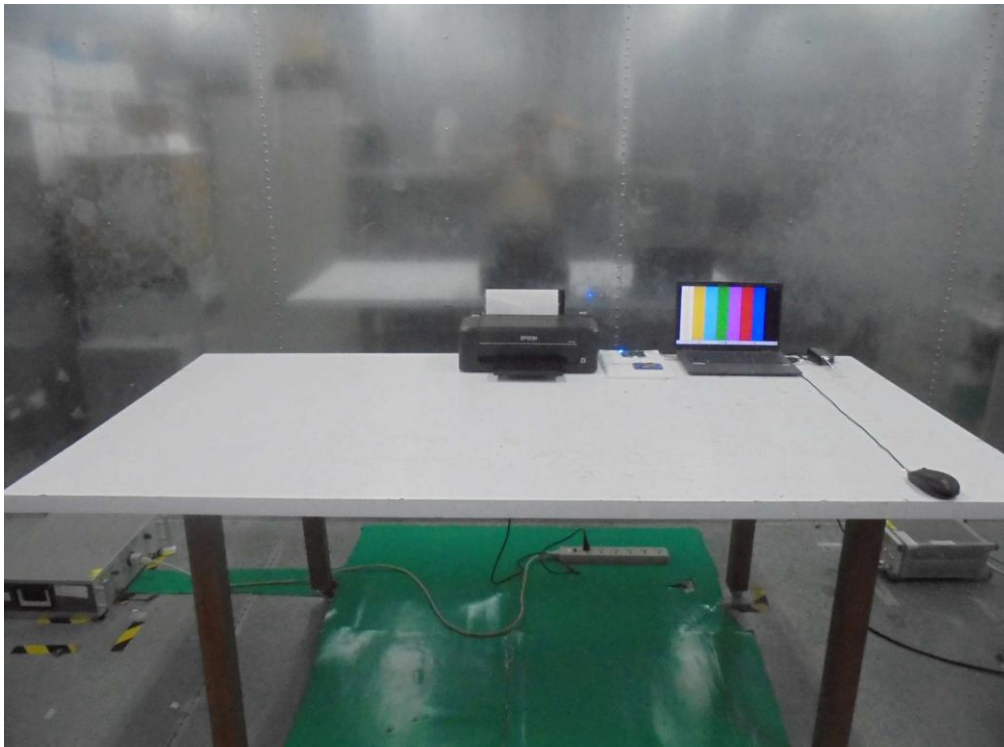
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.481G	38.10	74.00	-35.90	-7.47	3	Horizontal	273	1.00	-	45.57	25.38	2.36	35.21		
AV	1.481G	23.86	54.00	-30.14	-7.47	3	Horizontal	273	1.00	-	31.33	25.38	2.36	35.21		
PK	3.675G	43.21	74.00	-30.79	1.65	3	Horizontal	159	1.00	-	41.56	30.85	3.92	33.12		
AV	3.675G	29.84	54.00	-24.16	1.65	3	Horizontal	159	1.00	-	28.19	30.85	3.92	33.12		
PK	4.503G	44.12	74.00	-29.88	3.91	3	Horizontal	50	1.00	"Worst"	40.21	32.01	4.48	32.58		
AV	4.503G	31.23	54.00	-22.77	3.91	3	Horizontal	50	1.00	"Worst"	27.32	32.01	4.48	32.58		

Note: The emission levels of the other frequencies were significantly within the prescribed regulatory limits.

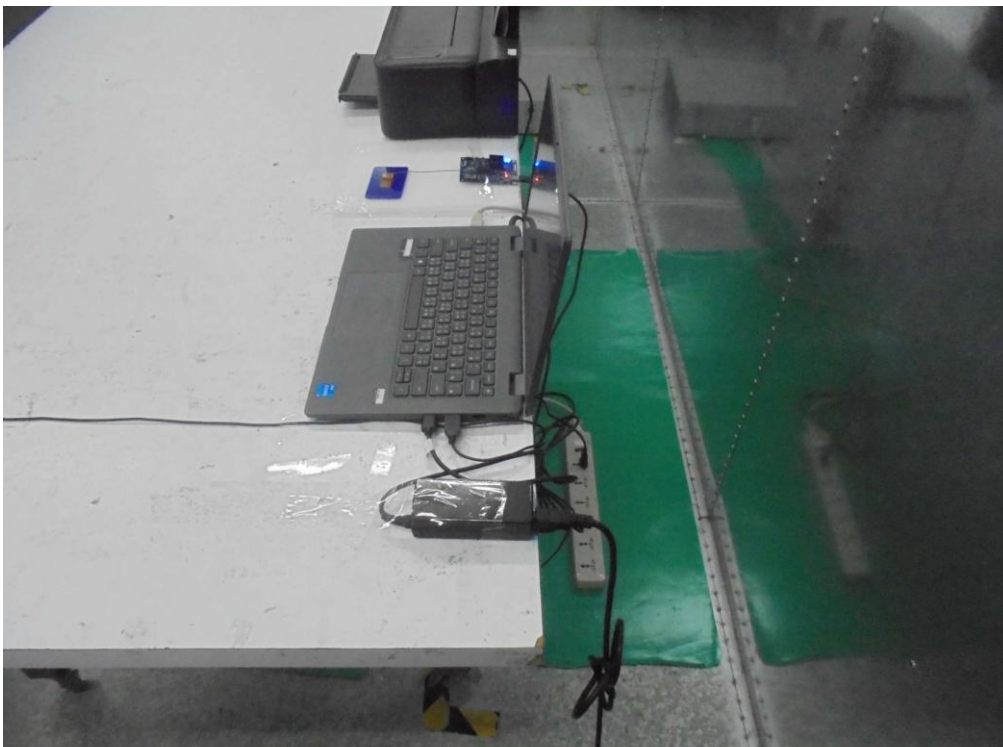
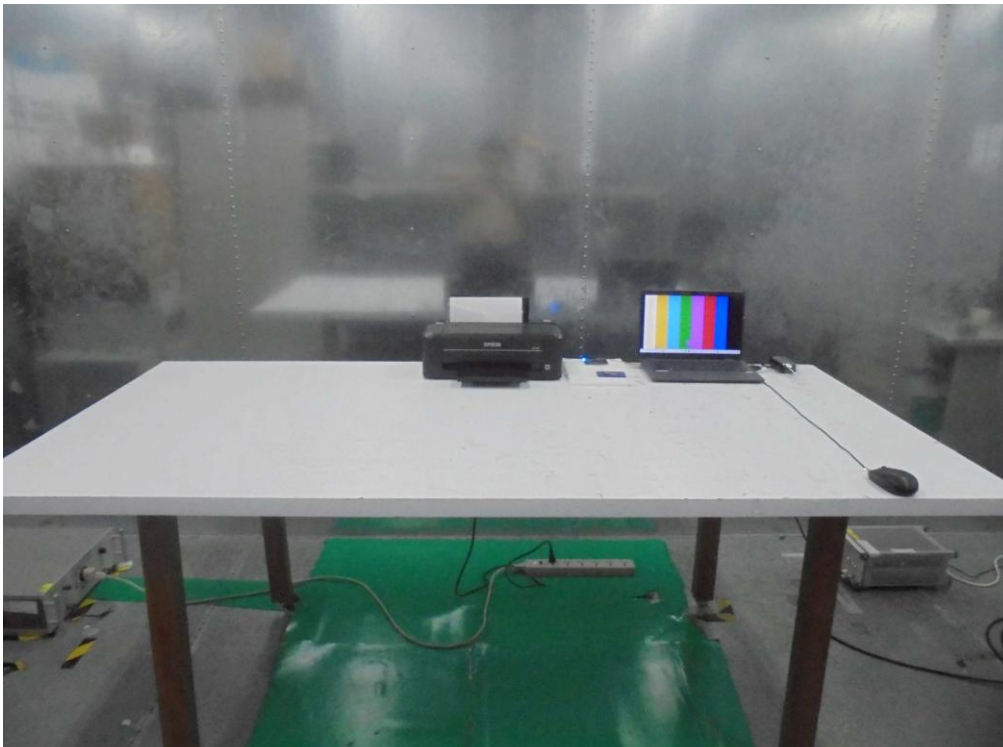
Conducted Emissions from the AC mains power ports (Ant.: TWX-100BRS3B)



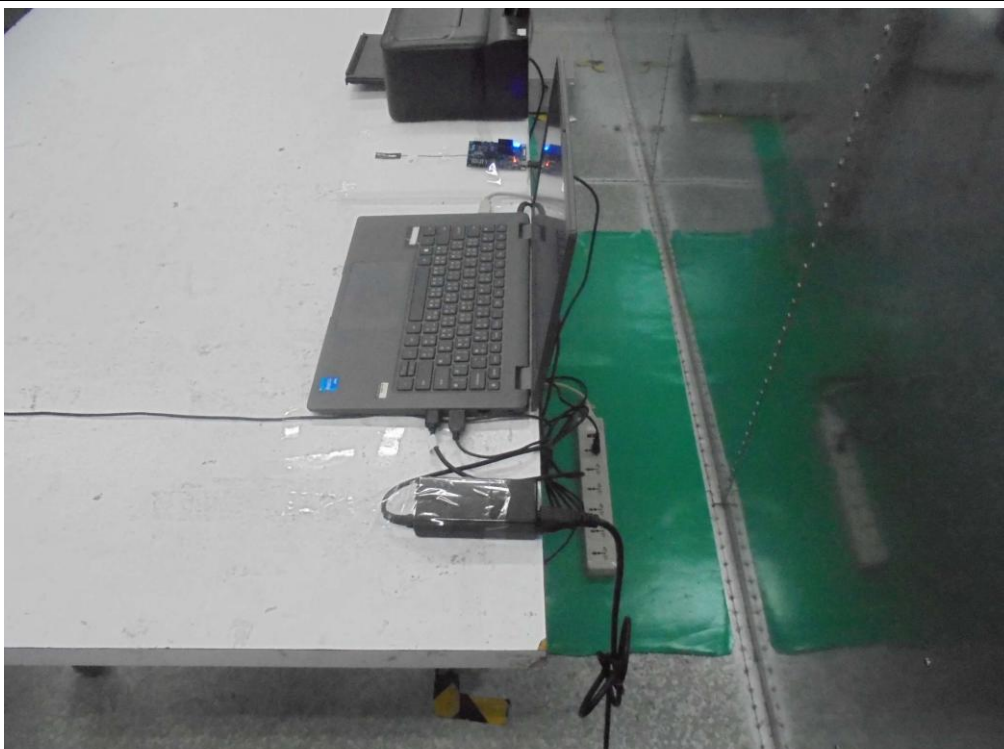
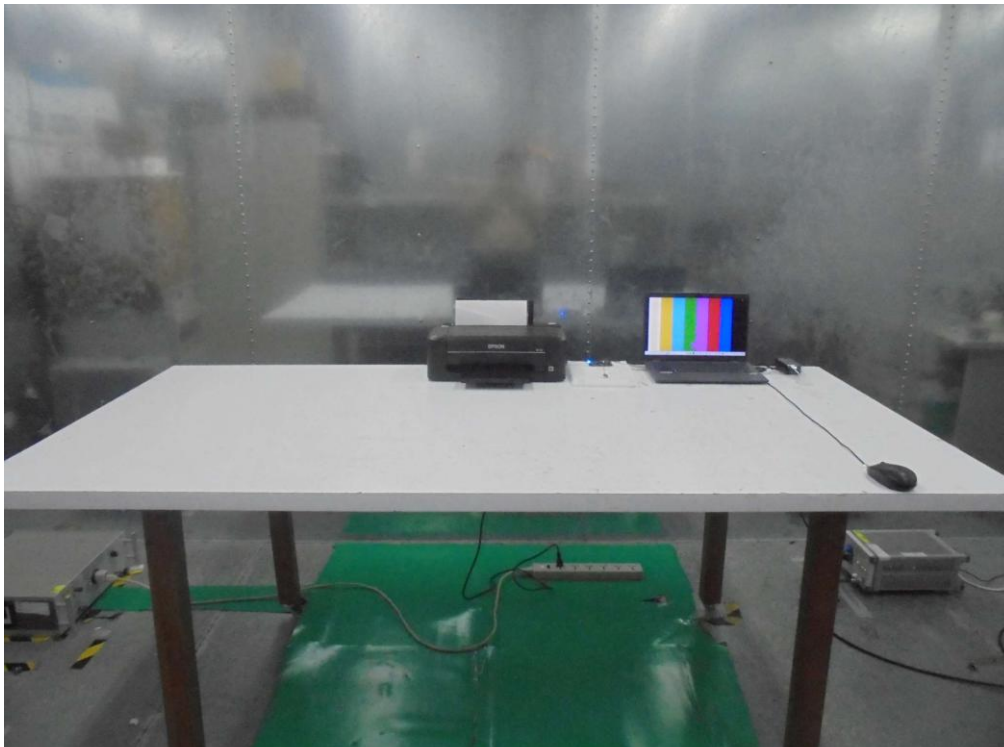
Conducted Emissions from the AC mains power ports (Ant.: EFD2471A3S-10MH4L)



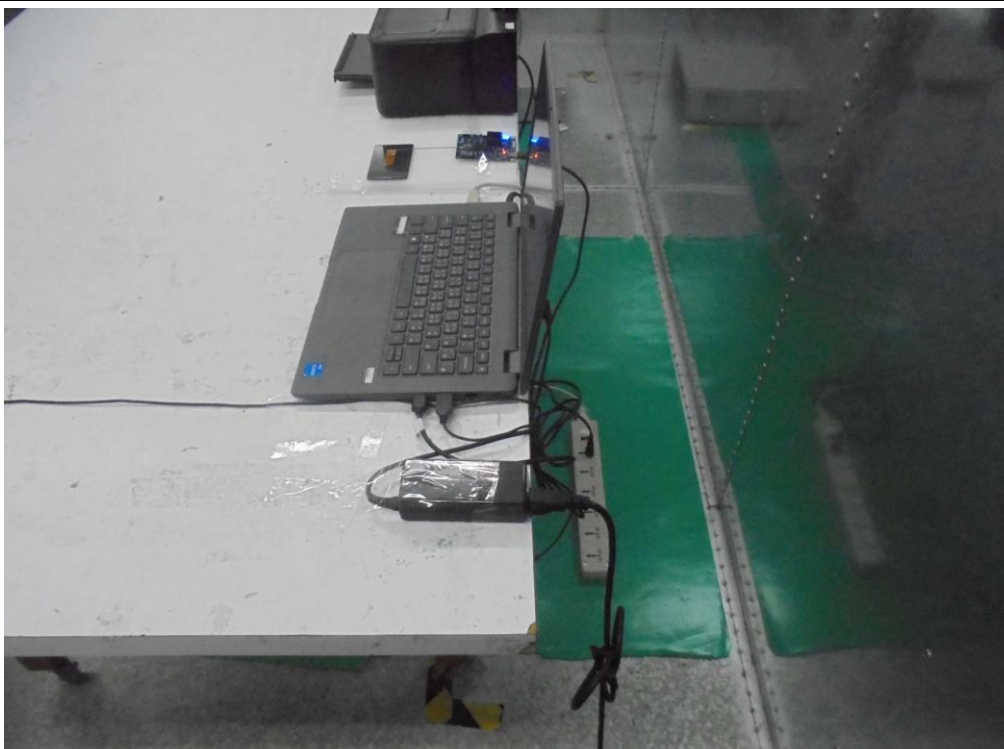
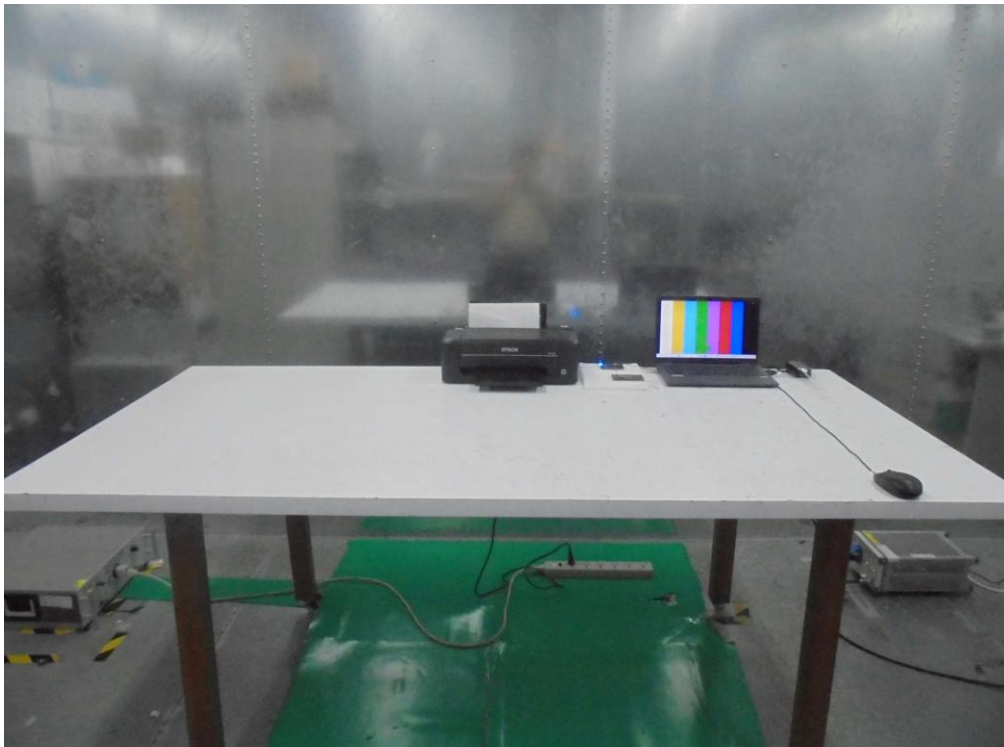
Conducted Emissions from the AC mains power ports (Ant.: EFB2471A3S-10MH4L)



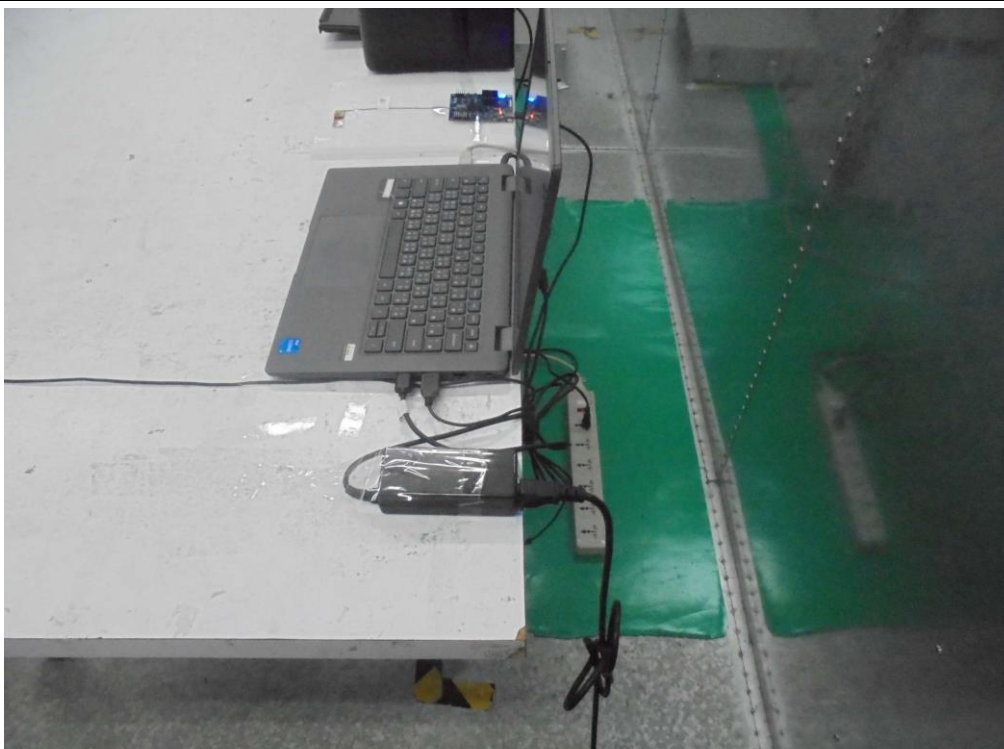
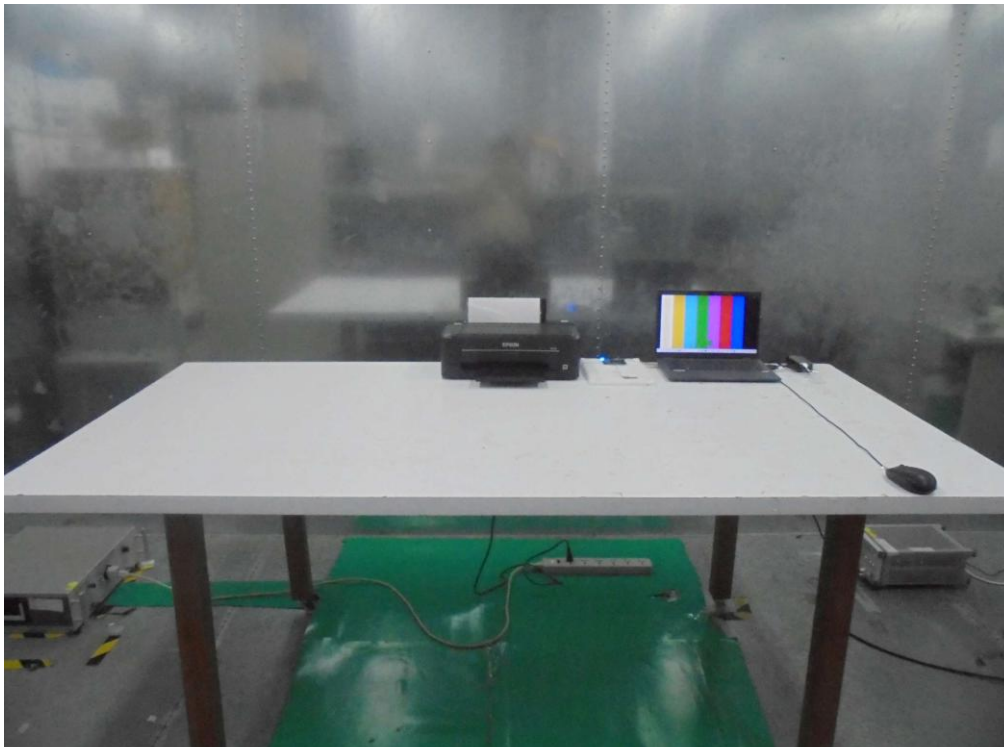
Conducted Emissions from the AC mains power ports (Ant.: EMF2471A3S-10MH4L)



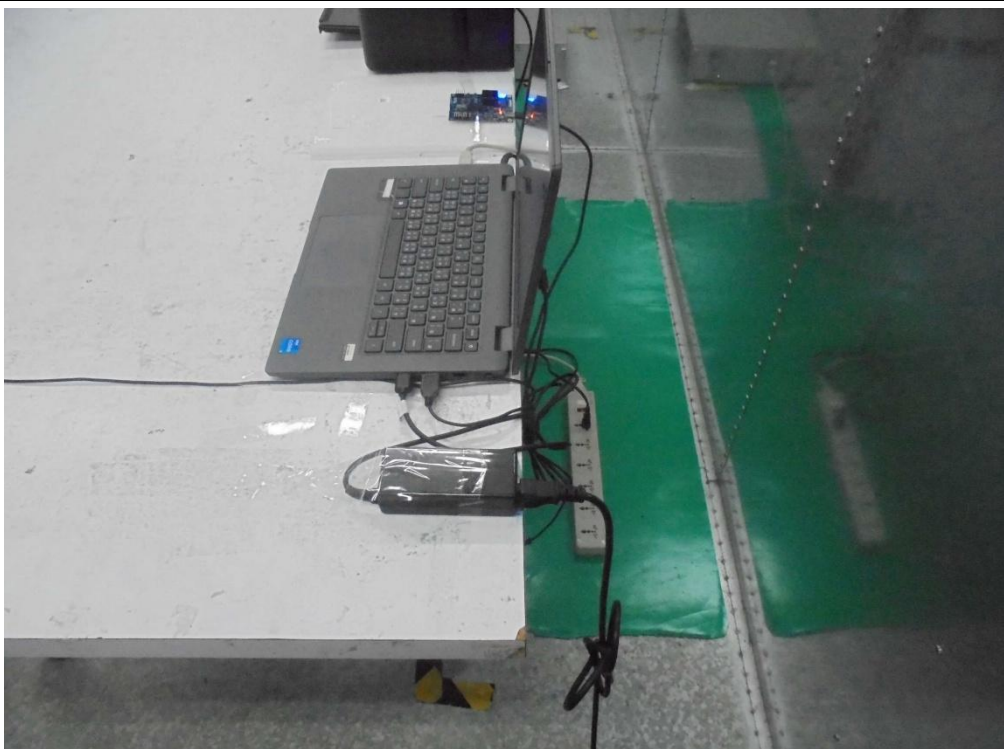
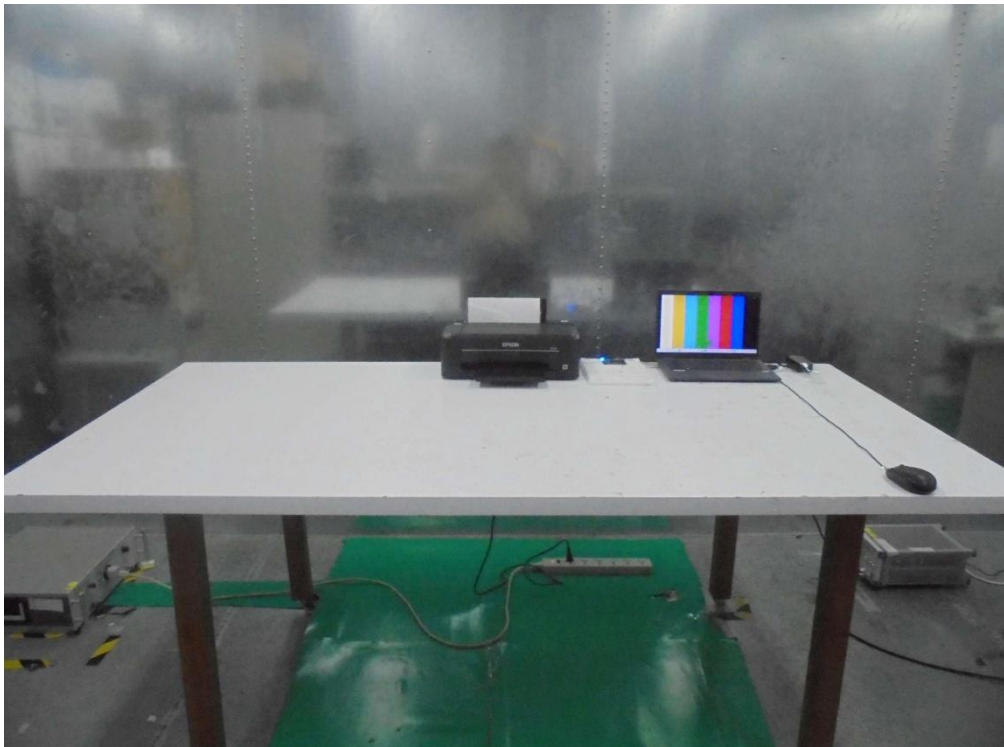
Conducted Emissions from the AC mains power ports (Ant.: 001-0021)



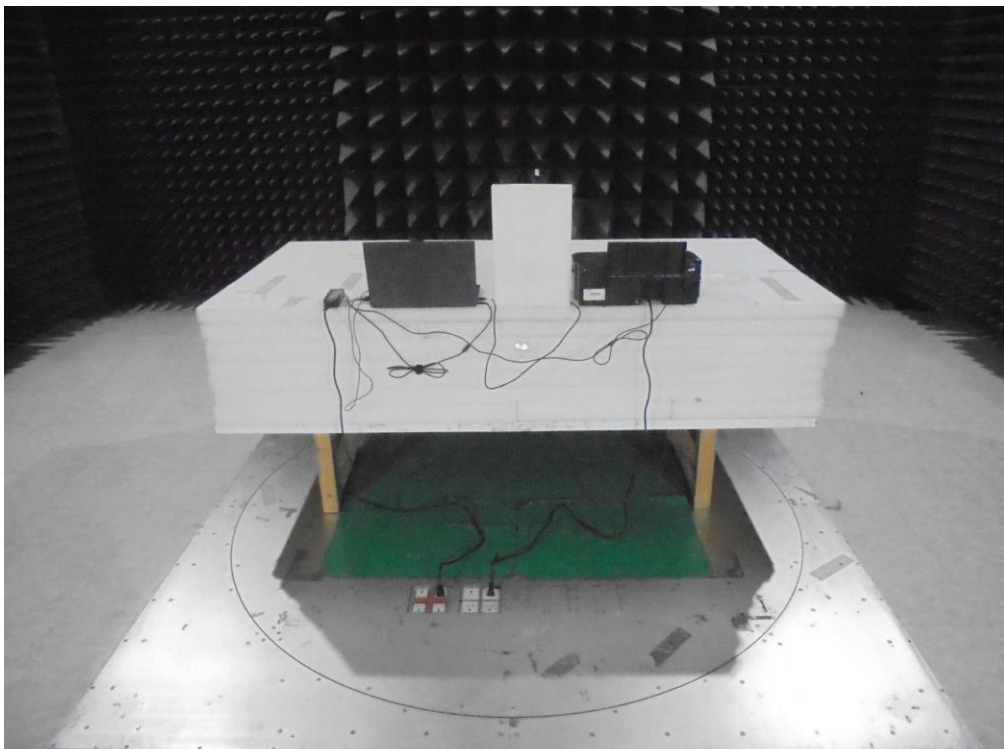
Conducted Emissions from the AC mains power ports (Ant.: EFB2455A3S-15MH4L)



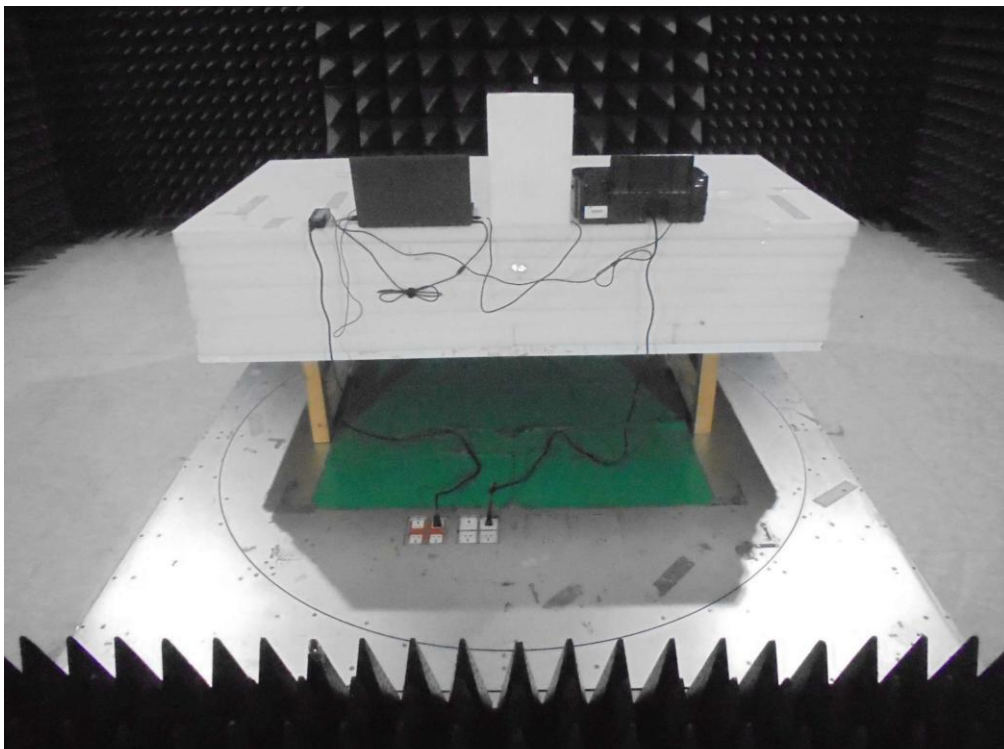
Conducted Emissions from the AC mains power ports (Ant.: ANT1608LL14R2460A)



Radiated Emission Below 1GHz Test



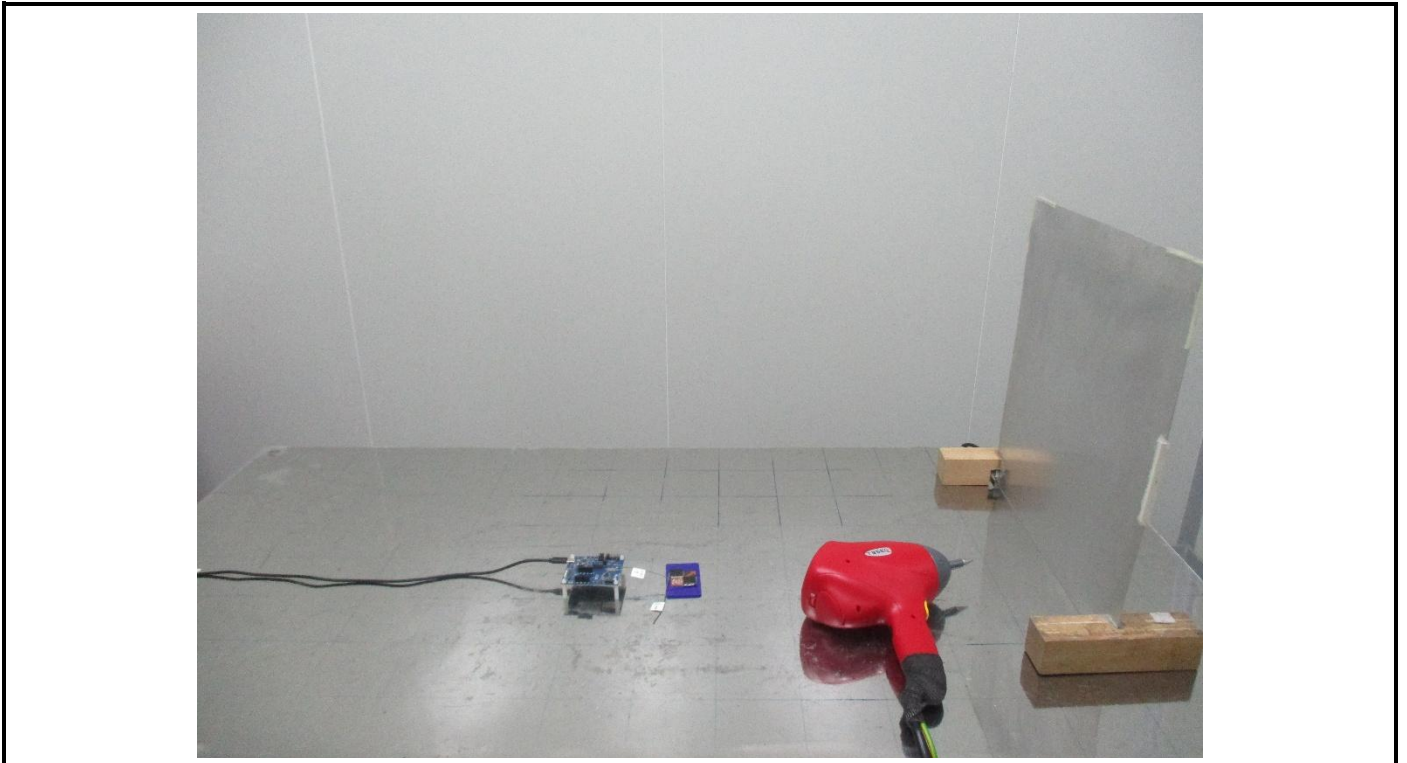
Radiated Emission Above 1GHz Test



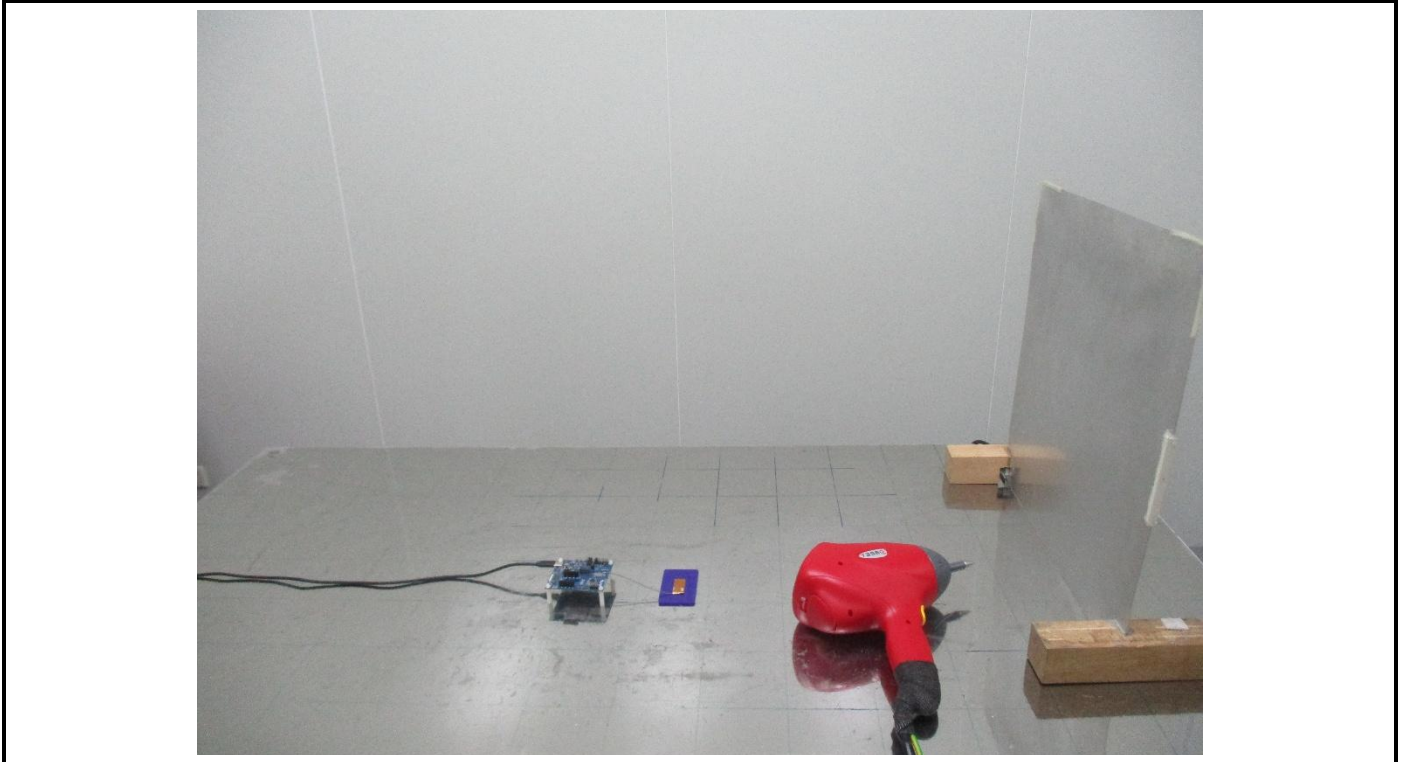
ESD Test (Test mode 1)



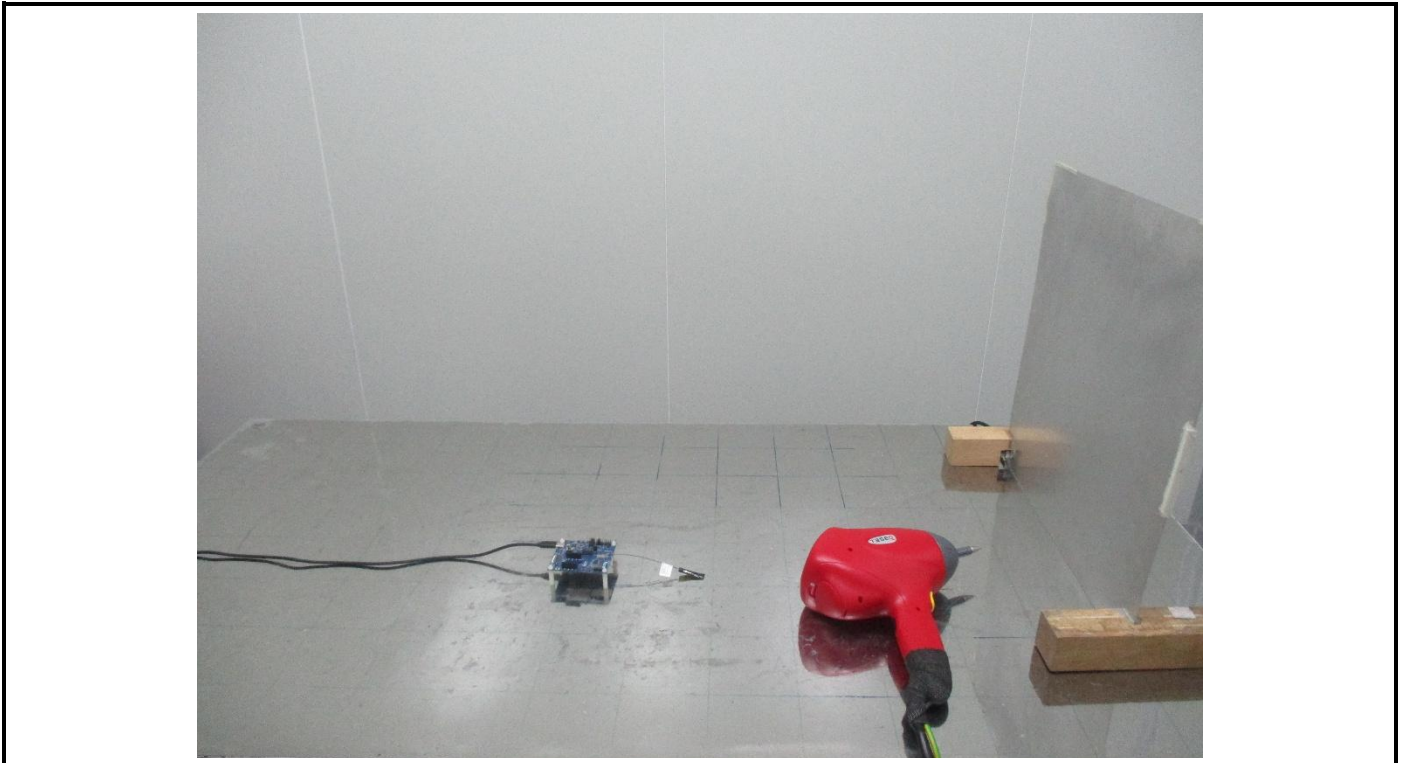
ESD Test (Test mode 2)



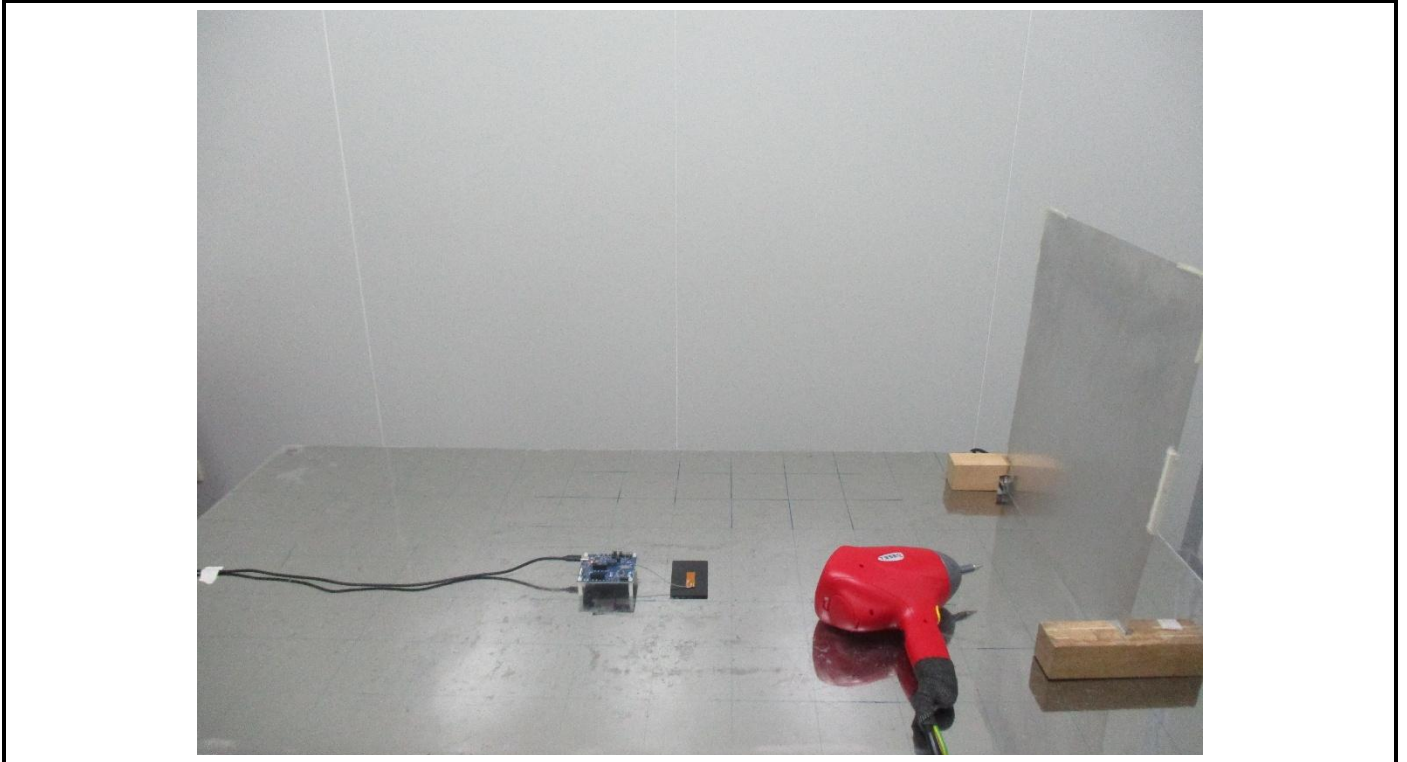
ESD Test (Test mode 3)



ESD Test (Test mode 4)



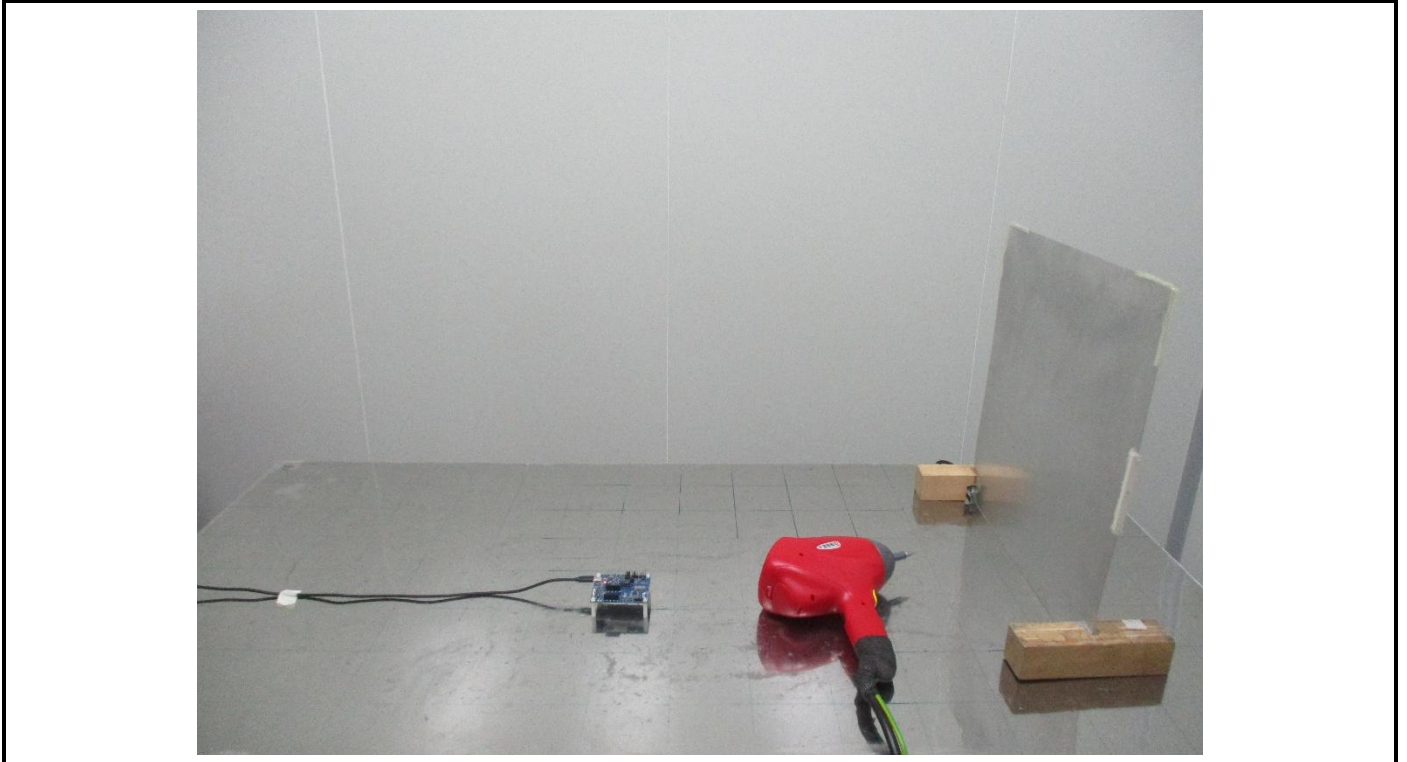
ESD Test (Test mode 5)



ESD Test (Test mode 6)



ESD Test (Test mode 7)



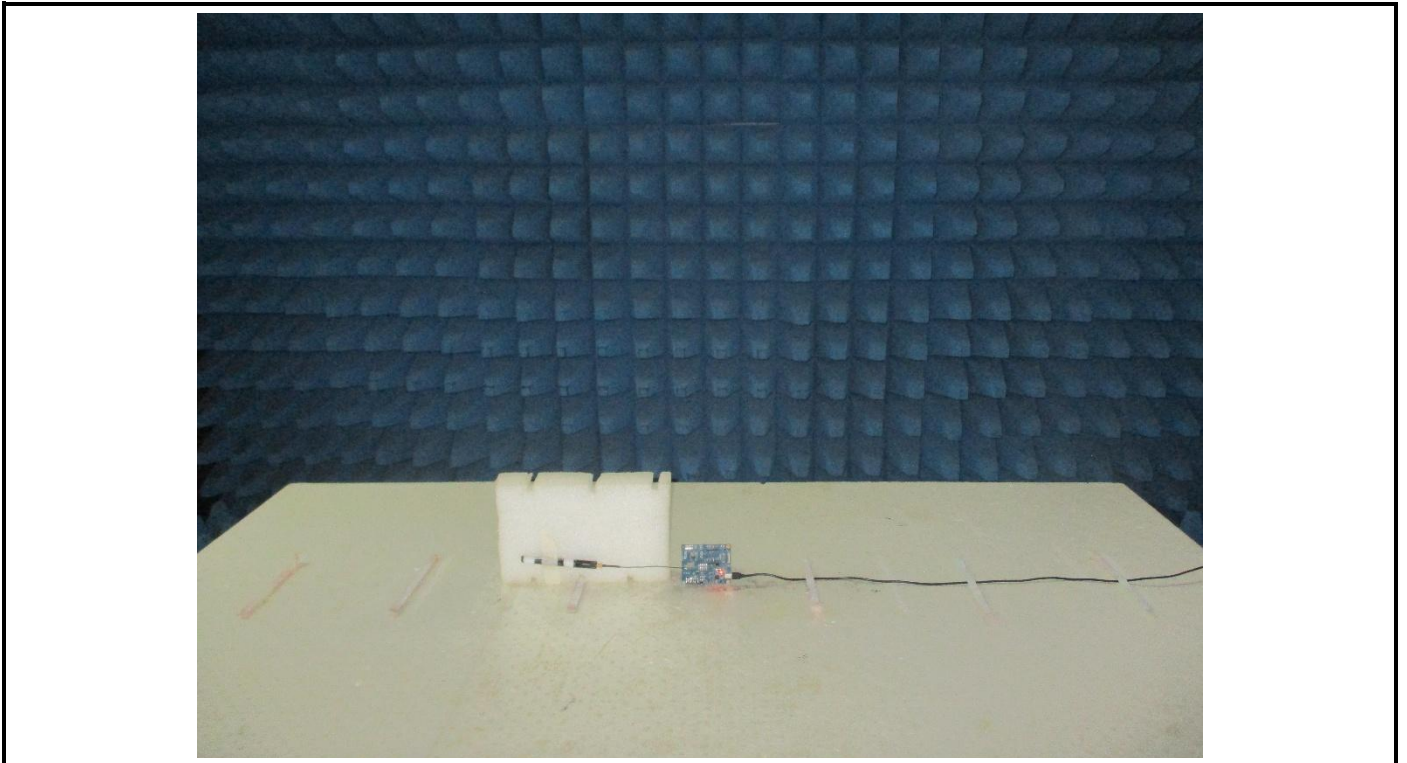
ESD Test (Test mode 8)



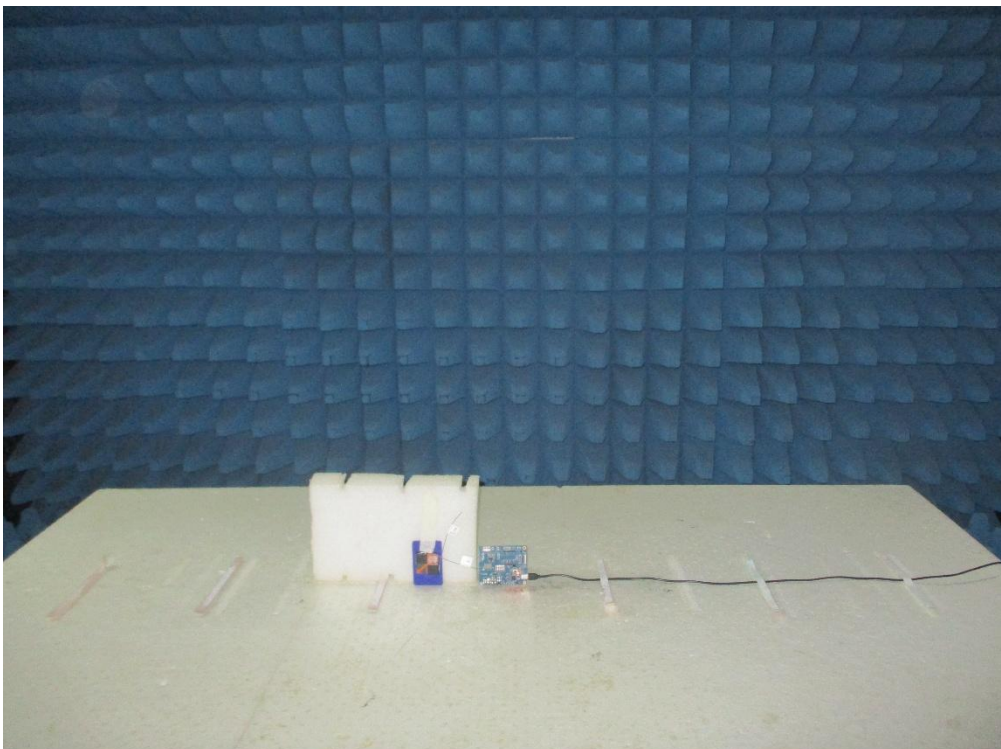
ESD Test (Test mode 9)



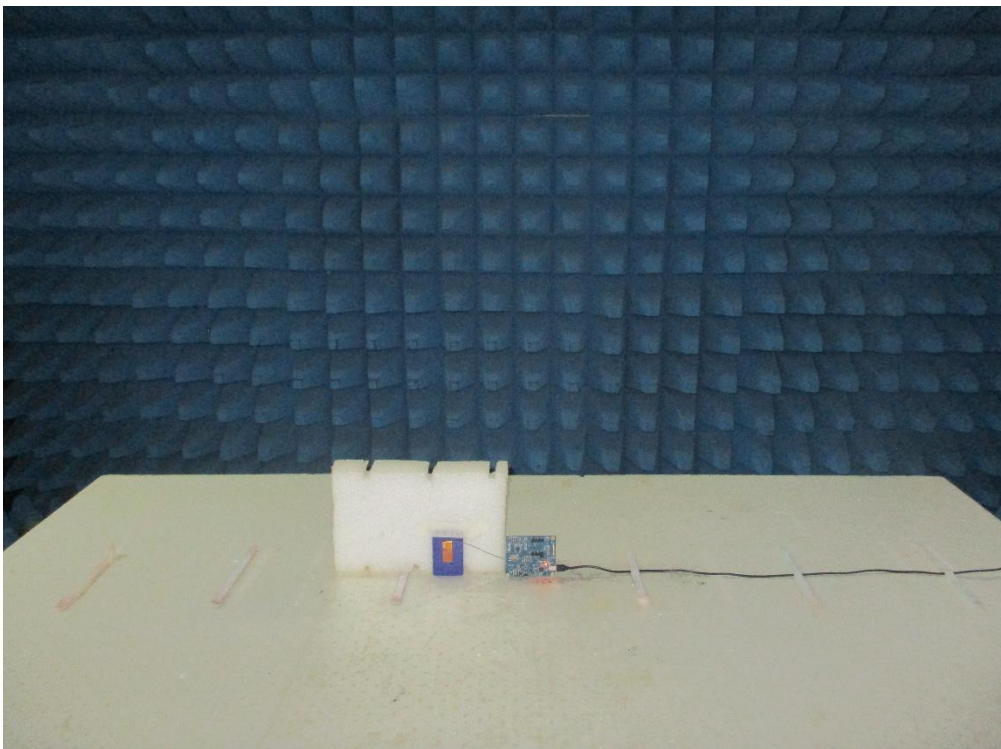
RS Test (Test mode 1)



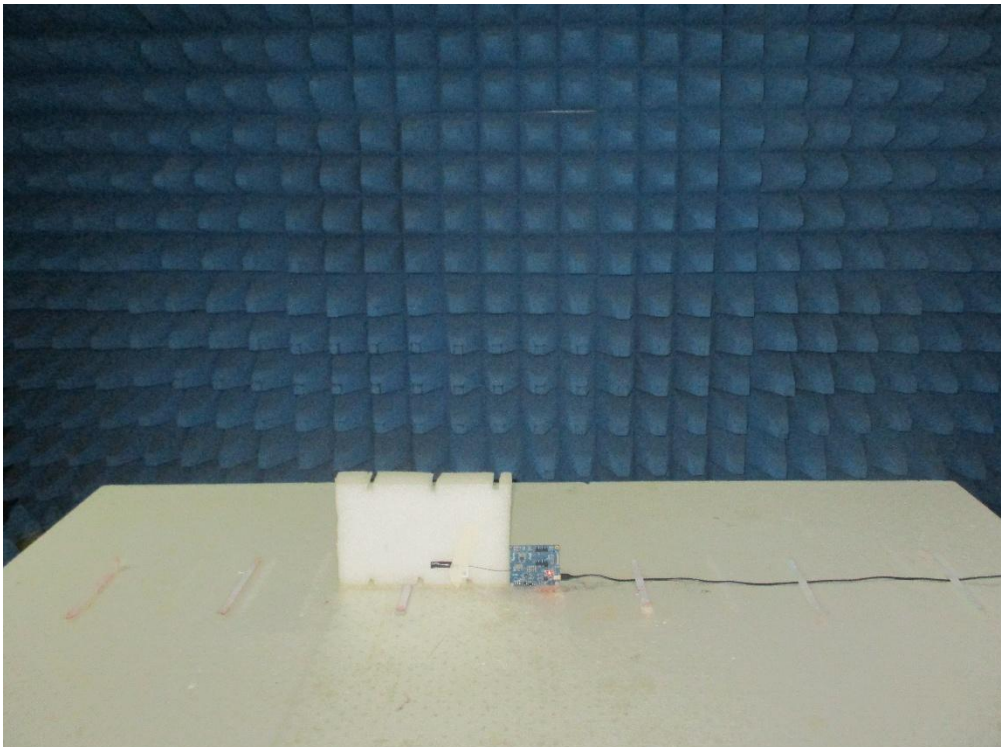
RS Test (Test mode 2)



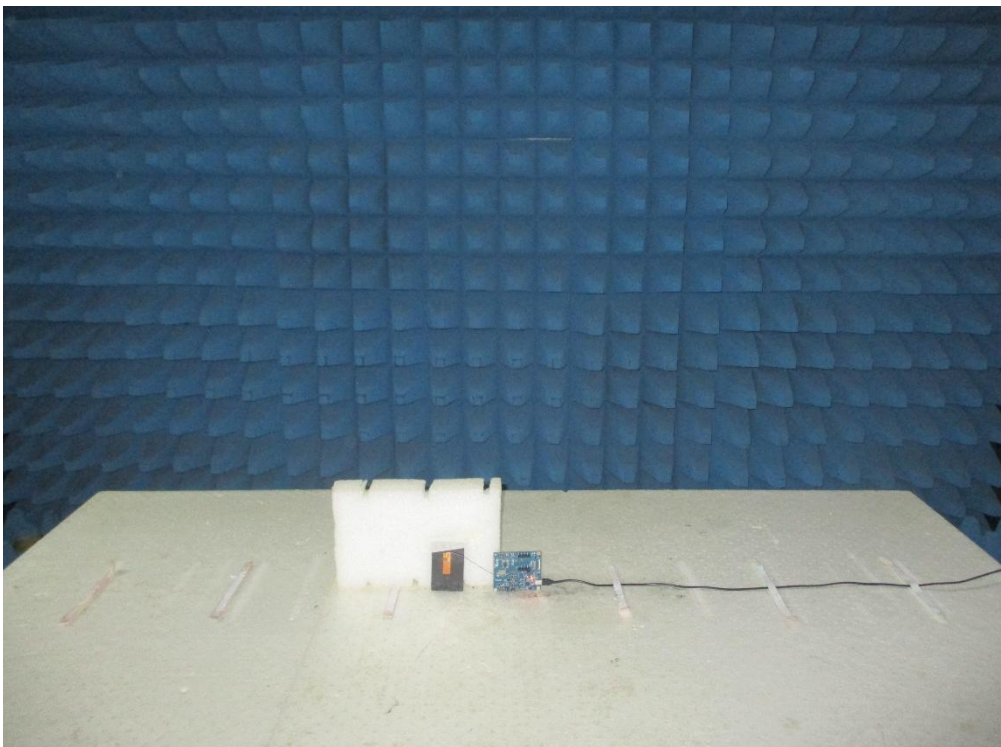
RS Test (Test mode 3)



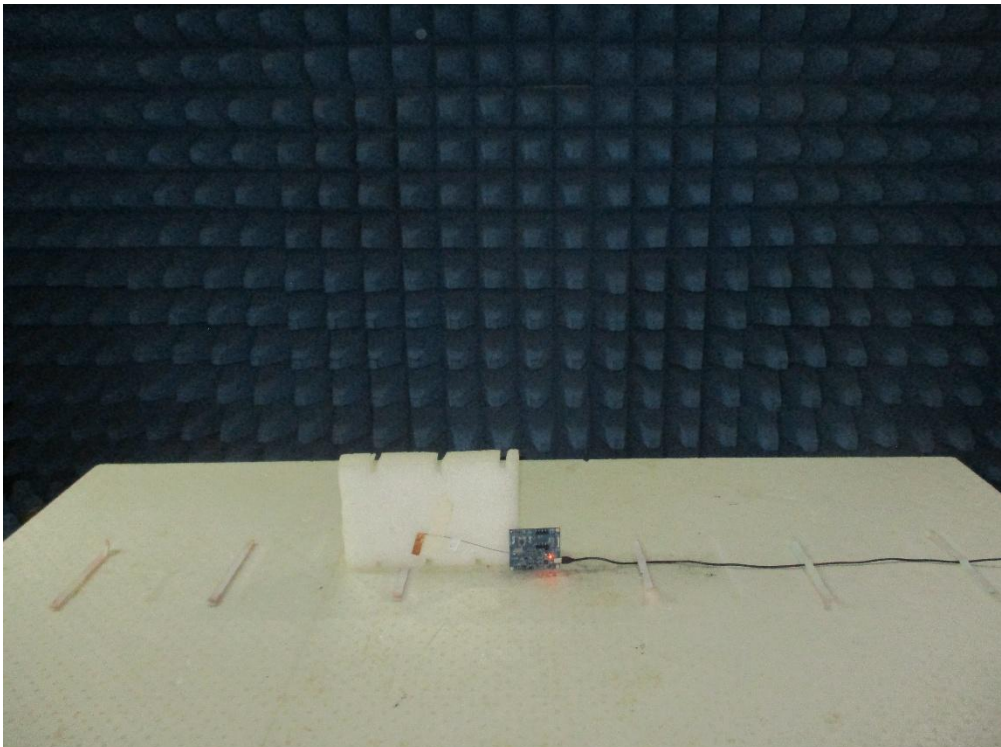
RS Test (Test mode 4)



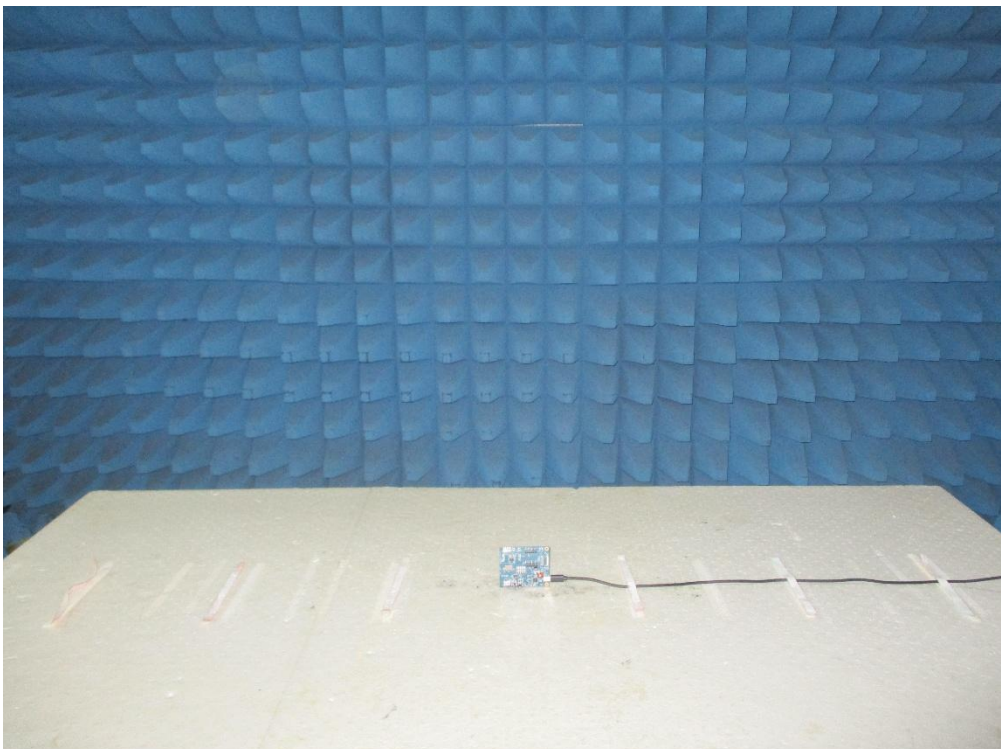
RS Test (Test mode 5)



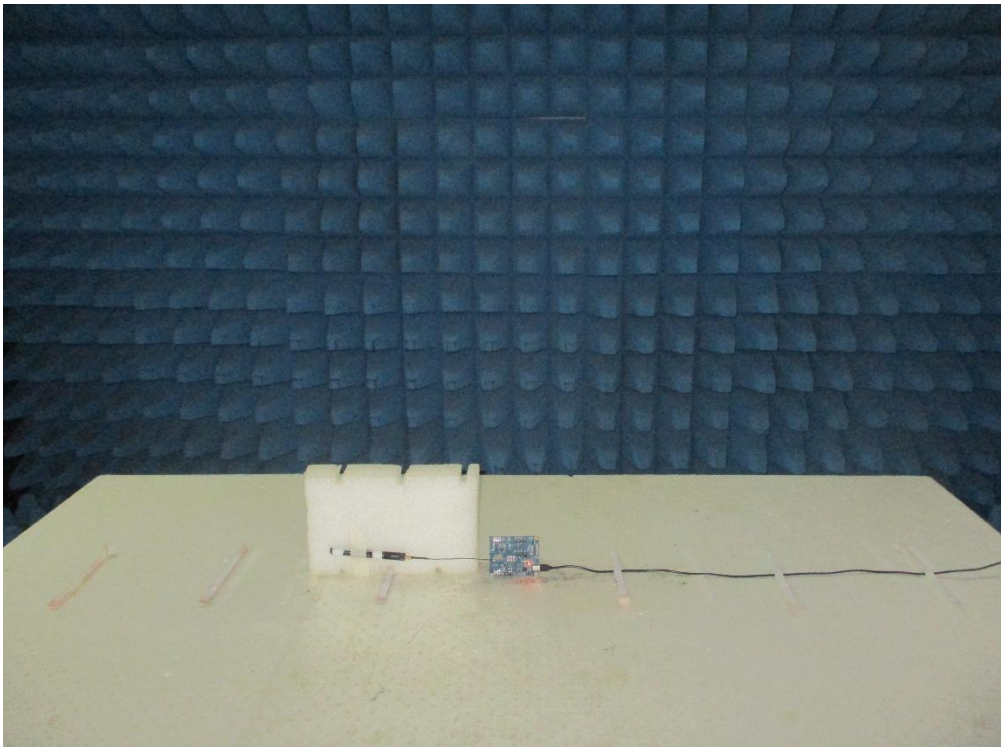
RS Test (Test mode 6)



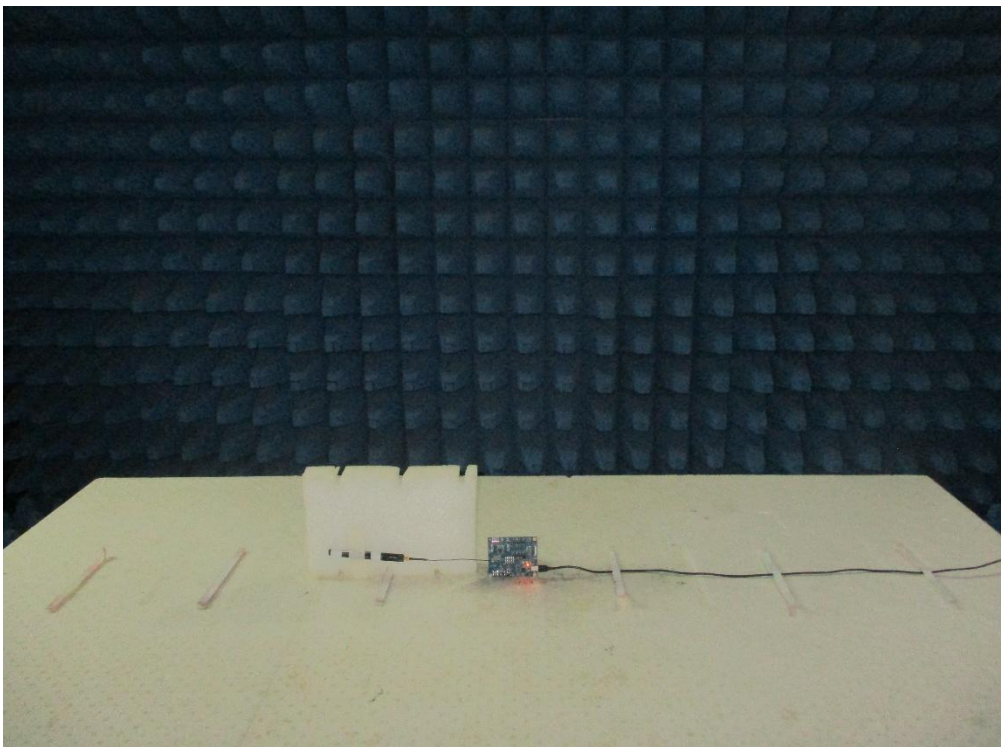
RS Test (Test mode 7)



RS Test (Test mode 8)



RS Test (Test mode 9)



RS Test (Test mode 10)

