



FCC Part 15B Test Report

FCC ID: 2A9UKPOESW811DIN

Applicant: Shenzhen Rongpu Electronic Technology Co., Ltd

Address: 402 Building 1 Factory Building 1 Baolu Industrial Zone Songbai Road Longteng Community Shiyan Street Bao'an District Shenzhen City Guangdong, China

Manufacturer: Shenzhen Rongpu Electronic Technology Co., Ltd

Address: 402 Building 1 Factory Building 1 Baolu Industrial Zone Songbai Road Longteng Community Shiyan Street Bao'an District Shenzhen City Guangdong, China

Product Name: PoE Switch

Trade Mark: N/A

Model Number: PoE-SW811G-DIN, PoE-SW802-DIN, PoE-SW803G-DIN, PoE-XXXXXXX(X=A~Z, 0~9)

Date of Receipt: May 19, 2026

Test Date: May 19, 2026 – June 10, 2026

Date of Report: June 10, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC Part 15 Subpart B
ANSI C63.4-2014

Test Result: Pass

Report Number: DLE-260610002R

Prepared by(Engineer): Ken Tan

Reviewer(Supervisor): Jack Bu

Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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**** Issued History ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	June 10, 2026	Jason Zhou



1. Test Summary

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	Standard Section	Limit	Judgment	Remark
FCC Part 15 Subpart B ANSI C63.4-2014	AC Conducted Emission	15.107	Class B	PASS	
	Radiated Emission	15.109	Class B	PASS	

NOTE:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.



1.1 Information of the Test Laboratory

Shenzhen DL Testing Technology Co., Ltd.

Add.: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

1.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Uncertainty(150KHz-30MHz)	$\pm 2.56\text{dB}$
2	Radiated Emission Uncertainty ($<1\text{GHz}$)	$\pm 3.65\text{dB}$
3	Radiated Emission Uncertainty ($>1\text{GHz}$)	$\pm 4.89\text{dB}$



2. General Information

2.1 General Description of EUT

Product Name	PoE Switch				
Product Model	PoE-SW811G-DIN				
Series Model(s)	PoE-SW802-DIN, PoE-SW803G-DIN, PoE-XXXXXXX(X=A~Z, 0~9)				
Model Difference	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: PoE-SW811G-DIN.				
Product Description	The EUT is a PoE Switch. <table><tr><td>Operating frequency:</td><td>N/A</td></tr><tr><td>Connecting I/O port:</td><td>N/A</td></tr></table> Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	Operating frequency:	N/A	Connecting I/O port:	N/A
Operating frequency:	N/A				
Connecting I/O port:	N/A				
Power Source	AC Voltage				
Power Rating	DC53.5V, 2.2A from Adapter with AC100-240V, 50/60Hz, 2.5A				



2.2 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Running

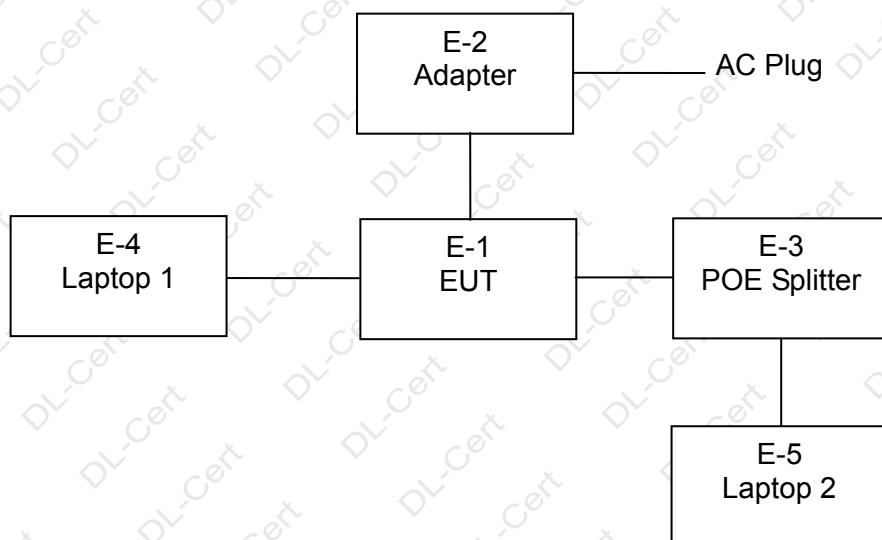
For AC Conducted Test	
Final Test Mode	Description
Mode 1	Running

For Radiated Test	
Final Test Mode	Description
Mode 1	Running



2.3 Description of Test Setup

Mode 1:





2.4 Description Test Peripheral and EUT Peripheral

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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
E-1	PoE Switch	N/A	PoE-SW811G-DIN	DC54V, 1.21A	EUT
E-2	Adapter	N/A	FY1205352200	Input: AC100-240V, 50/60Hz, 2.5A Output: DC53.5V, 2.2A	
E-3	POE Splitter	N/A	PS5712T	Input: DC44-57V Output: 12V/2A	
E-4	Laptop 1	N/A	ThinkPad L480	DC20V, 2.25/3.25A	
E-5	Laptop 2	N/A	ThinkPad E14 Gen 5	DC20V, 3.25A	

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.5 Measurement Instruments List

For Conducted Emission Test (843 Shielded Room)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
Clamp	COM-POWER	CLA-050	431071	Oct. 27, 2025	Oct. 26, 2026
3-Loop Antenna	DAZE	ZN30401	13021	Oct. 27, 2025	Oct. 26, 2026
ISN T8	Schwarzbeck	NTFM 8158	101135	Oct. 25, 2025	Oct. 24, 2026
ISN T5	Schwarzbeck	NTFM 8158	101136	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	002	Oct. 25, 2025	Oct. 24, 2026

For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Spectrum Analyzer	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
EMI Receiver	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
Amplifier	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
Amplifier	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Oct. 26, 2025	Oct. 25, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Oct. 26, 2025	Oct. 25, 2026
Loop Antenna	ZHINAN	ZN30900A	/	Oct. 26, 2025	Oct. 25, 2026
966 Cable 1#	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
966 Cable 2#	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026



3. EMC Emission Test

3.1 AC Conducted Emission Measurement

3.1.1 Power Line Conducted Emission (Frequency Range 150KHz-30MHz)

Frequency(MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

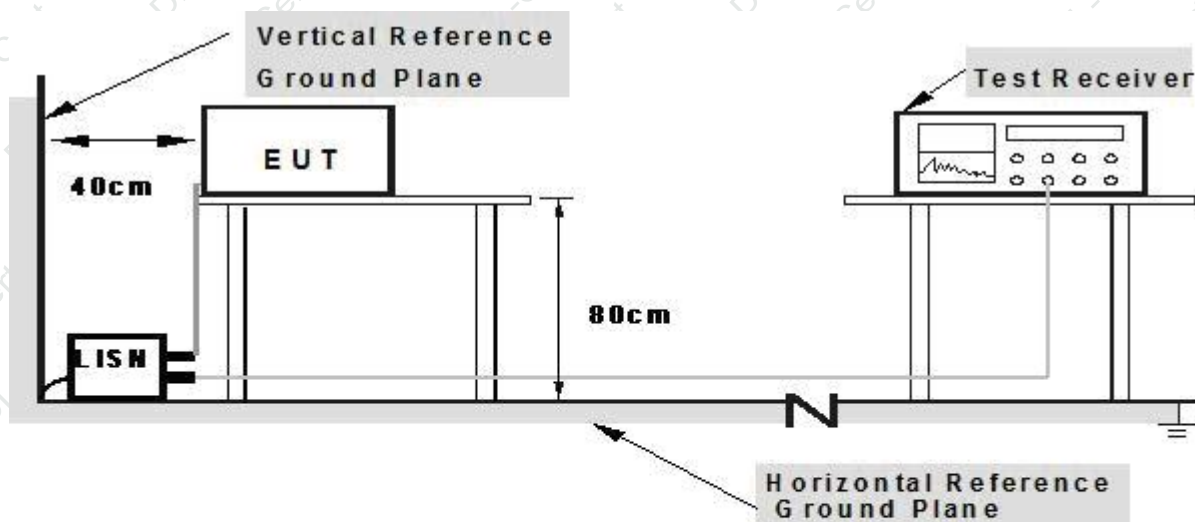
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 Test Procedure

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 Test Setup



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

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

3.1.4 EUT Operating Conditions

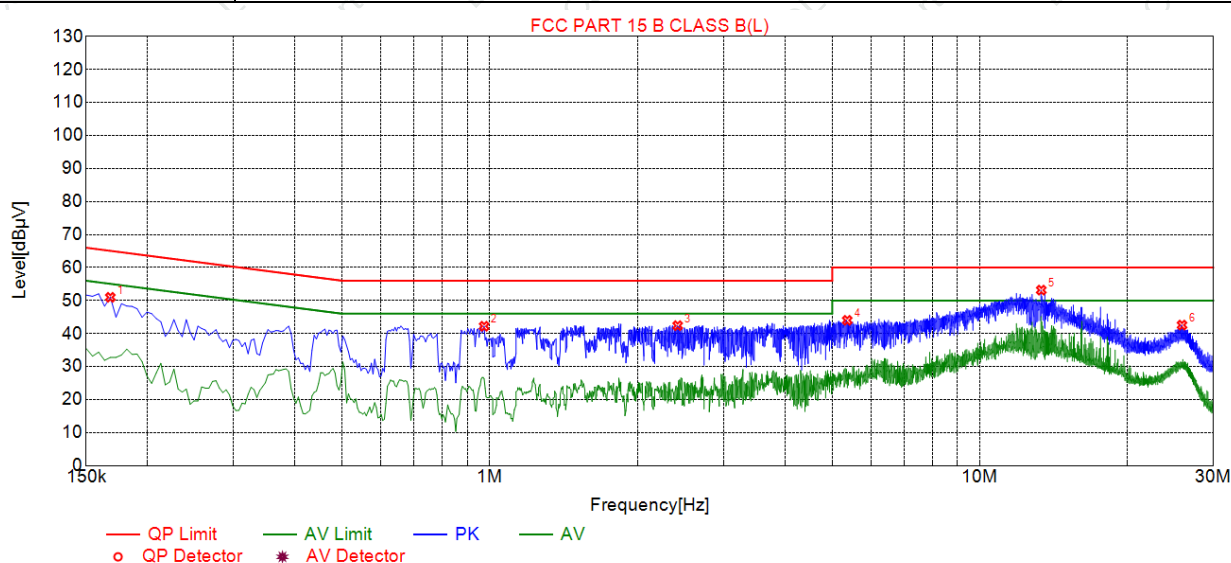
The EUT tested system was configured as the statements of 2.3 unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 Test Results

Note: All the test modes completed for test. Only the worst result of was reported.

EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-21
Test Mode:	Mode 1	Polarization:	L
Test Voltage :	AC120V/60Hz		



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1680	50.98	19.81	65.06	14.08	31.17	PK	L
2	0.9735	42.21	19.88	56.00	13.79	22.33	PK	L
3	2.4180	42.40	20.10	56.00	13.60	22.30	PK	L
4	5.3655	44.01	20.24	60.00	15.99	23.77	PK	L
5	13.3575	53.16	21.78	60.00	6.84	31.38	PK	L
6	25.8855	42.57	24.48	60.00	17.43	18.09	PK	L

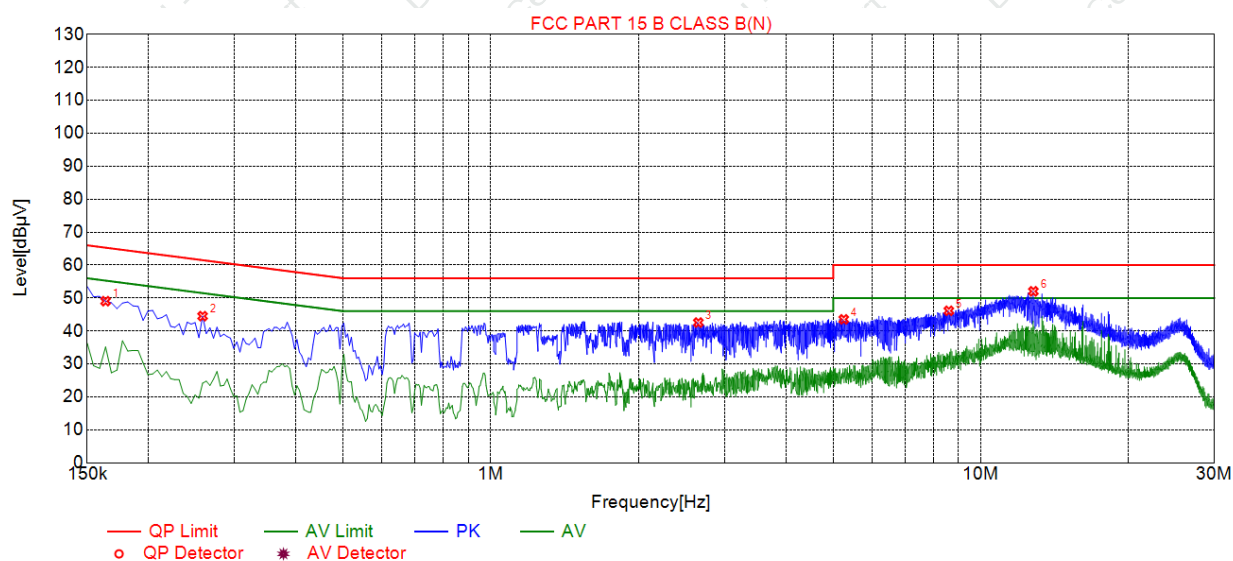
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-21
Test Mode:	Mode 1	Polarization:	N
Test Voltage:	AC120V/60Hz		



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	49.05	19.90	65.28	16.23	29.15	PK	N
2	0.2580	44.50	19.79	61.50	17.00	24.71	PK	N
3	2.6520	42.55	20.18	56.00	13.45	22.37	PK	N
4	5.2530	43.53	20.41	60.00	16.47	23.12	PK	N
5	8.6100	46.13	20.88	60.00	13.87	25.25	PK	N
6	12.8085	52.04	21.55	60.00	7.96	30.49	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



3.2 Radiated Emission Measurement

3.2.1 Limits of Radiated Emission Measurement

Frequency(MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

(1) The tighter limit applies at the band edges.

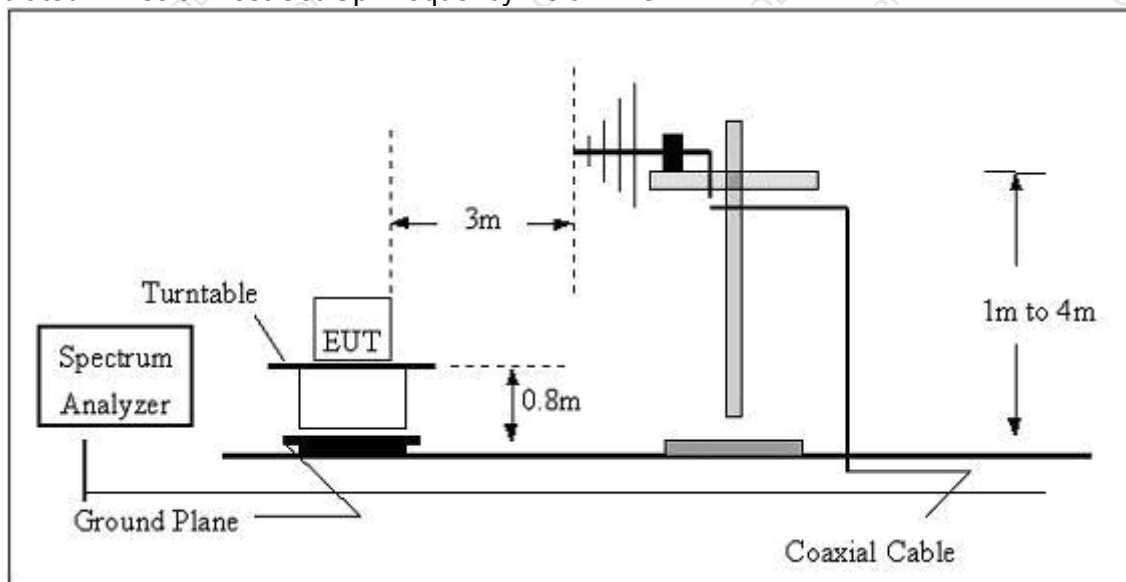
3.2.2 Test Procedure

- The measuring distance is 3 m.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

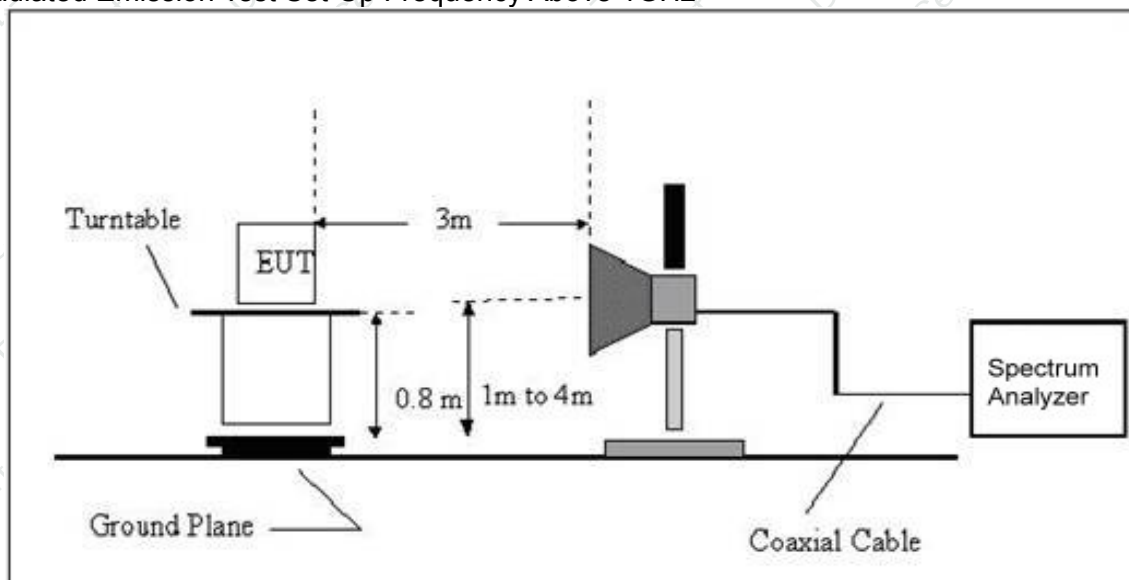


3.2.3 Test Setup

a) Radiated Emission Test Set-Up Frequency Below 1 GHz



b) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 2.3 unless otherwise a special operating condition is specified in the follows during the testing.

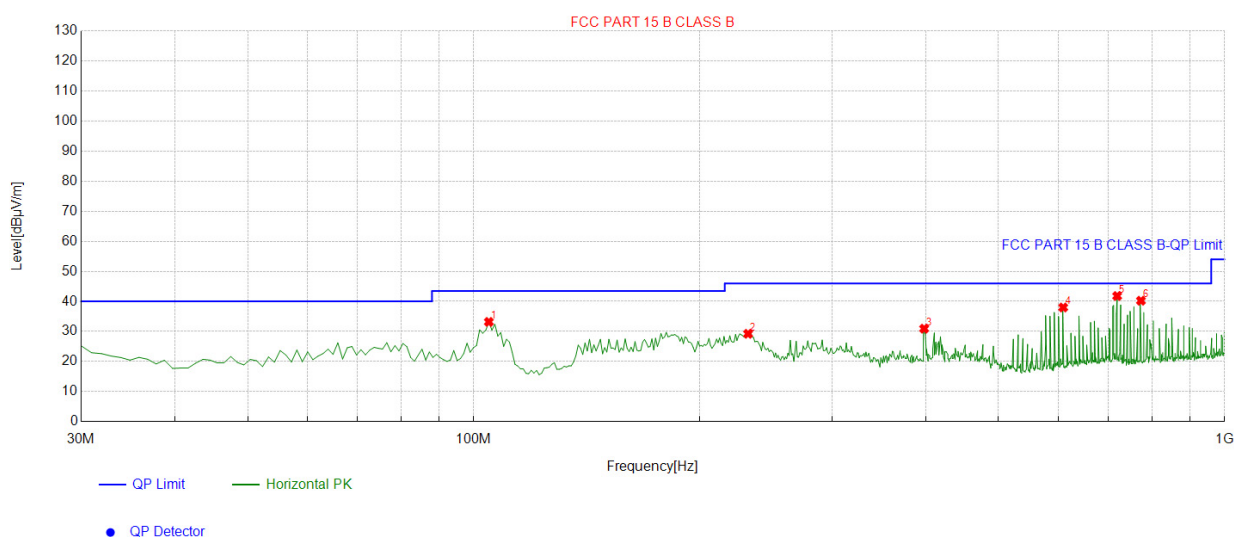


3.2.5 Test Results (30M-1000MHz)

Note:

All the test modes completed for test. Only the worst result of was reported.

EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-21
Test Mode:	Mode 1	Polarization:	Horizontal
Test Power:	AC120V/60Hz		

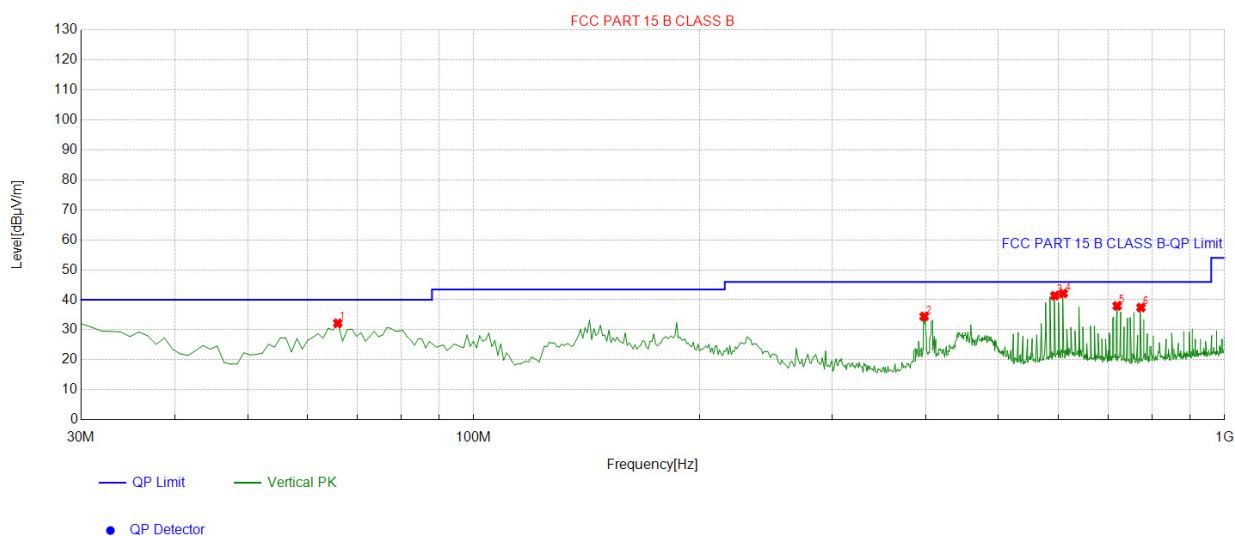


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	104.765	-14.61	47.80	33.19	43.50	10.31	100	306	Horizontal
2	231.962	-13.83	43.07	29.24	46.00	16.76	100	263	Horizontal
3	397.998	-9.86	40.80	30.94	46.00	15.06	100	124	Horizontal
4	609.670	-5.76	43.75	37.99	46.00	8.01	100	216	Horizontal
5	719.389	-4.32	46.12	41.80	46.00	4.20	100	138	Horizontal
6	773.764	-3.46	43.70	40.24	46.00	5.76	100	241	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-21
Test Mode:	Mode 1	Polarization:	Vertical
Test Power:	AC120V/60Hz		



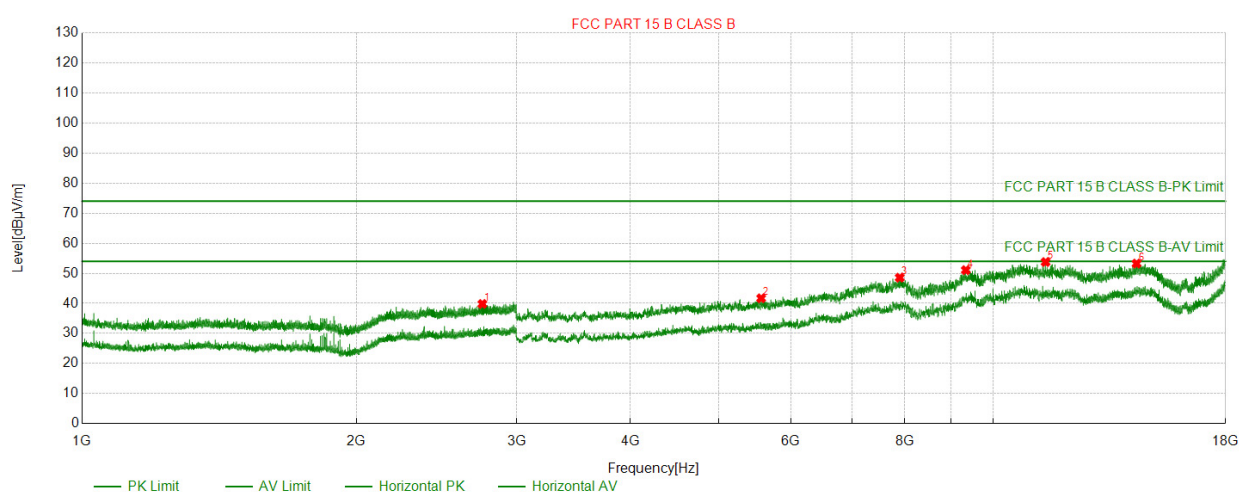
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	65.926	-14.48	46.69	32.21	40.00	7.79	100	236	Vertical
2	397.998	-9.86	44.33	34.47	46.00	11.53	100	164	Vertical
3	594.134	-6.03	47.43	41.40	46.00	4.60	100	200	Vertical
4	609.670	-5.76	47.88	42.12	46.00	3.88	100	330	Vertical
5	719.389	-4.32	42.30	37.98	46.00	8.02	100	211	Vertical
6	773.764	-3.46	40.91	37.45	46.00	8.55	100	207	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



3.2.6 Test Results (Above 1GHz)

EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-22
Test Mode:	Mode 1	Polarization:	Horizontal
Test Power:	AC120V/60Hz		

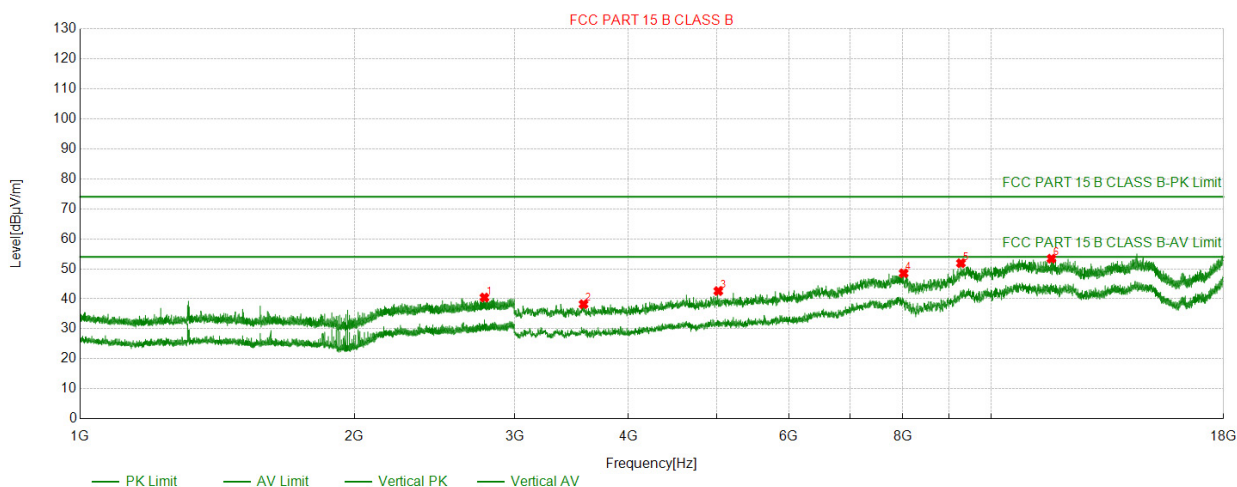


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2750.575	53.63	39.82	-13.81	74.00	34.18	100	240	Horizontal
2	5565.257	51.74	41.71	-10.03	74.00	32.29	100	80	Horizontal
3	7899.490	51.09	48.56	-2.53	74.00	25.44	100	170	Horizontal
4	9335.134	51.27	51.07	-0.20	74.00	22.93	100	240	Horizontal
5	11420.342	49.64	53.76	4.12	74.00	20.24	100	330	Horizontal
6	14374.137	47.83	53.25	5.42	74.00	20.75	100	220	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



EUT:	PoE Switch	Model Name:	PoE-SW811G-DIN
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-22
Test Mode:	Mode 1	Polarization:	Vertical
Test Power:	AC120V/60Hz		



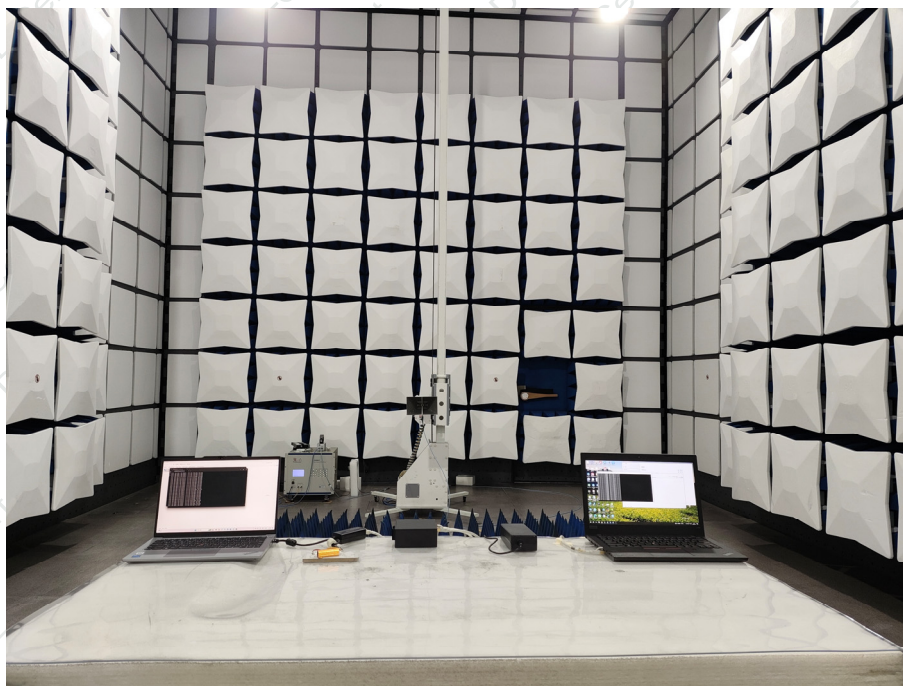
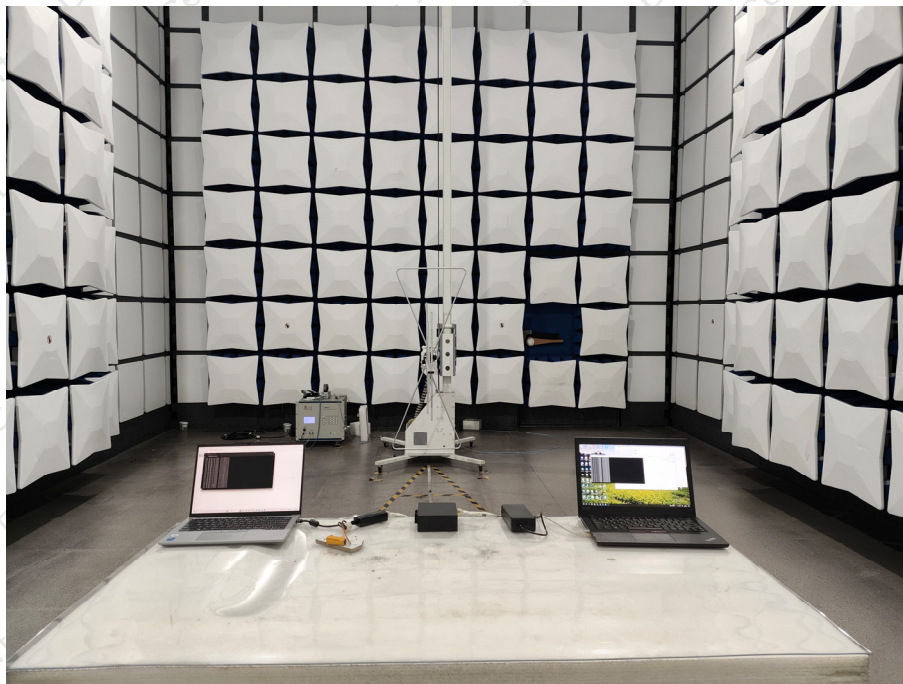
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2778.978	54.13	40.45	-13.68	74.00	33.55	100	240	Vertical
2	3570.057	52.73	38.23	-14.50	74.00	35.77	100	120	Vertical
3	5019.202	52.76	42.60	-10.16	74.00	31.40	100	30	Vertical
4	8018.002	50.71	48.52	-2.19	74.00	25.48	100	150	Vertical
5	9267.627	52.33	51.89	-0.44	74.00	22.11	100	0	Vertical
6	11649.865	48.78	53.39	4.61	74.00	20.61	100	150	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



4. EUT Test Photos

Radiated Emission





AC Conducted Emission





5. Photographs of EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

----- End of test report -----