

TEST REPORT

Applicant: Quanzhou SKYDROID Technology Co., Ltd.

Address of Applicant: 2nd Floor, Building A, Yucheng Base, Fengze District,
Quanzhou City, Fujian Province, China

Manufacturer: Quanzhou SKYDROID Technology Co., Ltd.

Address of Manufacturer: 2nd Floor, Building A, Yucheng Base, Fengze District,
Quanzhou City, Fujian Province, China

Factory: Quanzhou SKYDROID Technology Co., Ltd.

Address of Factory: 2nd Floor, Building A, Yucheng Base, Fengze District,
Quanzhou City, Fujian Province, China

Equipment Under Test (EUT)

Product Name: Remote control

Model No.: G12, G12Pro, G12/G12Pro, G12-RX

Trade Mark: SKYDROID

FCC ID: 2ATGZQZYSG12

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 01/15/2025

Date of Test: 01/15/2025~02/18/2025

Date of report issued: 02/20/2025

Test Result : PASS *

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

Authorized Signature:

Robinson Luo

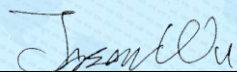
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	02/20/2025	Original

Prepared By:



Project Engineer

Date:

02/20/2025

Check By:



Reviewer

Date:

02/20/2025

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4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

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

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	4.93dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Remote control
Test Model No.:	G12
Family model:	G12Pro, G12/G12Pro, G12-RX
SN:	2024G12A0001
Test sample(s) ID:	GTSL2025020052-2
Sample(s) Status:	Normal sample
Power Supply:	AC Adapter(100~240VAC)

Remark:

The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

5.2 Test mode and Test voltage

Test mode:	
Line in mode	Keep the EUT in line in mode.
Test voltage	
AC 120V 60Hz	

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC—Registration No.: 381383 Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. ● ISED—Registration No.: 9079A CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
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5.7 Test Location

The test was performed at:
Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

6 Test Instruments list

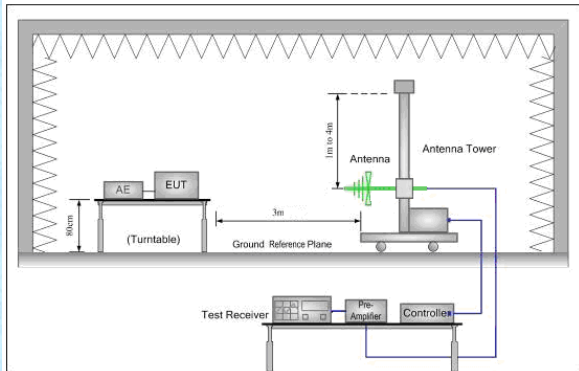
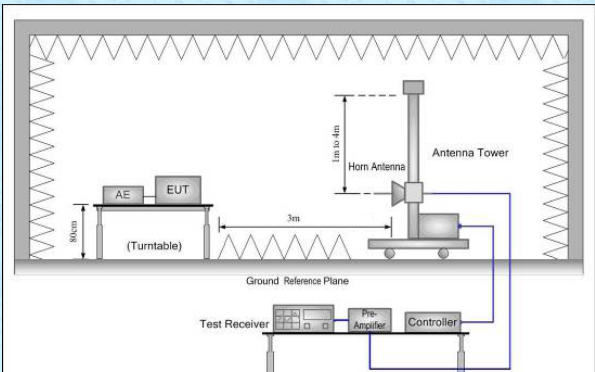
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Jun. 22, 2024	Jun. 21, 2027
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 11, 2024	Apr. 10, 2025
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Mar. 19, 2023	Mar. 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 17, 2023	Apr. 16, 2025
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Apr. 11, 2024	Apr. 10, 2025
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.12, 2024	Nov.11, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2024	Apr. 10, 2025
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2024	Apr. 10, 2025
10	Horn Antenna (15GH-40GHz)	SCHWARZBECK	01296	GTS691	Mar. 07, 2024	Mar. 06, 2025
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 12, 2024	Mar. 11, 2025
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2024	Apr. 10, 2025
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 07, 2024	Nov. 06, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2024	Apr. 10, 2025
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 18, 2024	Apr. 17, 2025
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2024	Jul. 01, 2025
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2024	Jul. 01, 2025
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2024	Jul. 01, 2025
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2024	Jul. 01, 2025
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2024	Jul. 01, 2025
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2024	Jul. 01, 2025
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2024	Jul. 04, 2025
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2024	Jul. 04, 2025
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2024	Apr. 10, 2025
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2024	Apr. 10, 2025
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 18, 2024	Apr. 17, 2025
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 11, 2024	Apr. 10, 2025
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2024	Apr. 10, 2025
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2024	Apr. 10, 2025
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2024	Apr. 10, 2025
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2024	Apr. 17, 2025

7 Test Results and Measurement Data

7.1 Radiated Emission

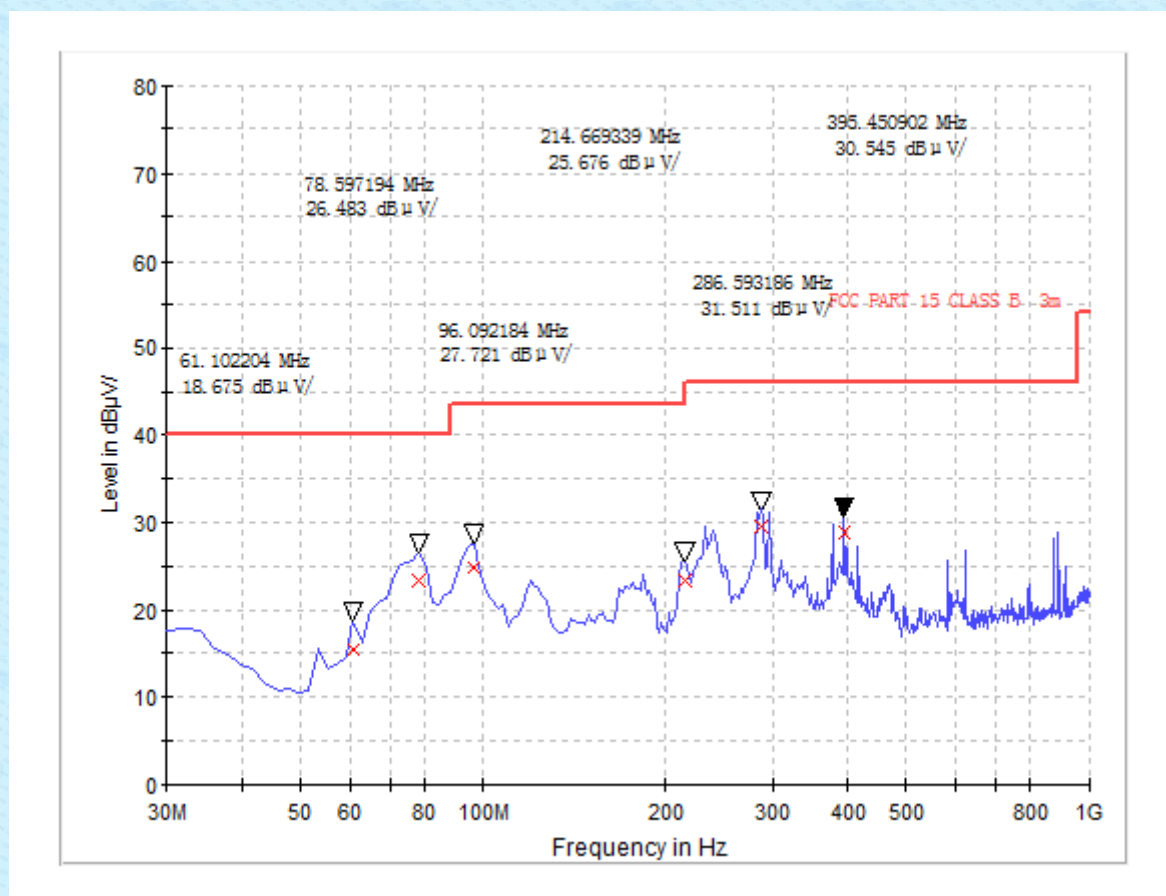
Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Test setup:	For radiated emissions from 30MHz to1GHz				
					
	For radiated emissions above 1GHz				
					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.: 1 012mbar

Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details, only show the worst case.
Test results:	Pass

Measurement Data

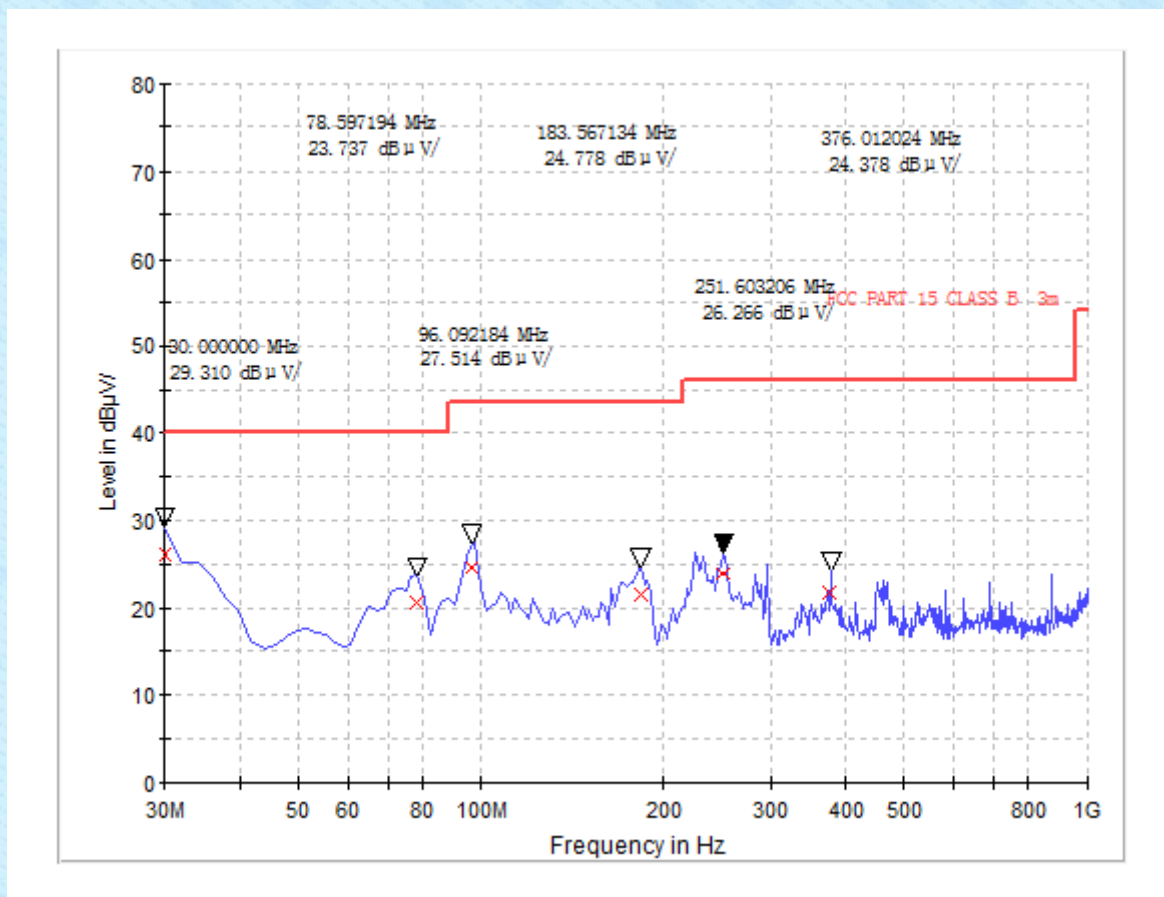
Below 1GHz

Test mode:	Line in mode	Antenna Polarity:	Horizontal
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Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
61.120000	15.43	120.000	100.0	H	5.6	24.57	40.0
78.600000	23.18	120.000	100.0	H	7.7	16.82	40.0
96.080000	24.85	120.000	100.0	H	9.7	18.65	43.5
214.680000	23.17	120.000	100.0	H	12.3	20.33	43.5
286.600000	29.45	120.000	100.0	H	14.6	16.55	46.0
395.440000	28.81	120.000	100.0	H	16.8	17.19	46.0

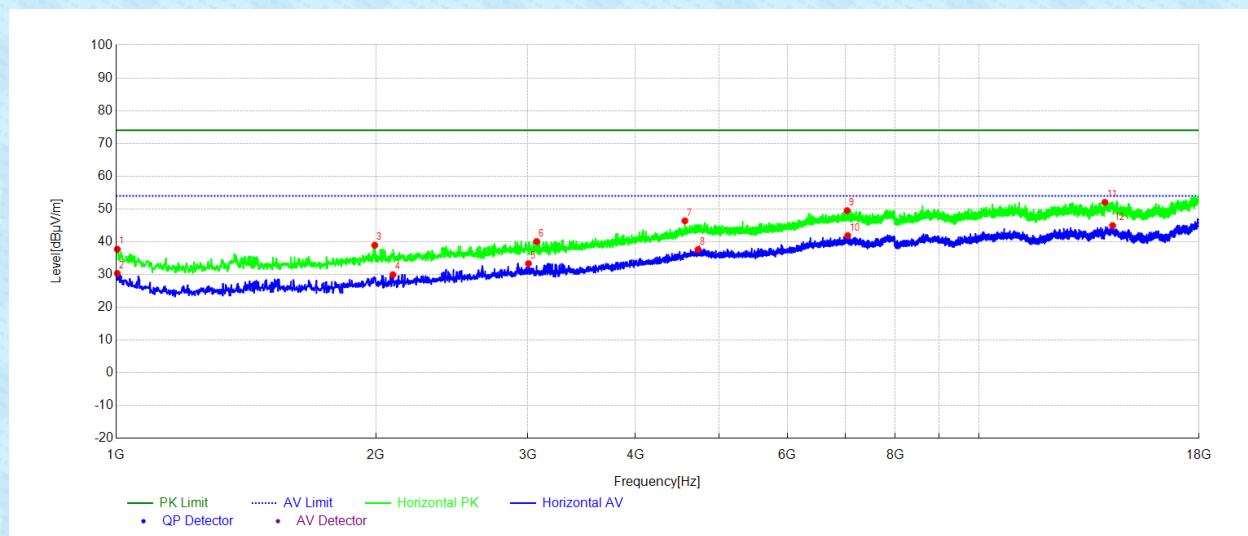
Test mode:	Line in mode	Antenna Polarity:	Vertical
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Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
30.000000	26.17	120.000	100.0	V	19.4	13.83	40.0
78.600000	20.61	120.000	100.0	V	7.7	19.39	40.0
96.080000	24.66	120.000	100.0	V	9.7	18.84	43.5
183.560000	21.51	120.000	100.0	V	11.8	21.99	43.5
251.600000	23.89	120.000	100.0	V	13.6	22.11	46.0
376.000000	21.64	120.000	100.0	V	16.5	24.36	46.0

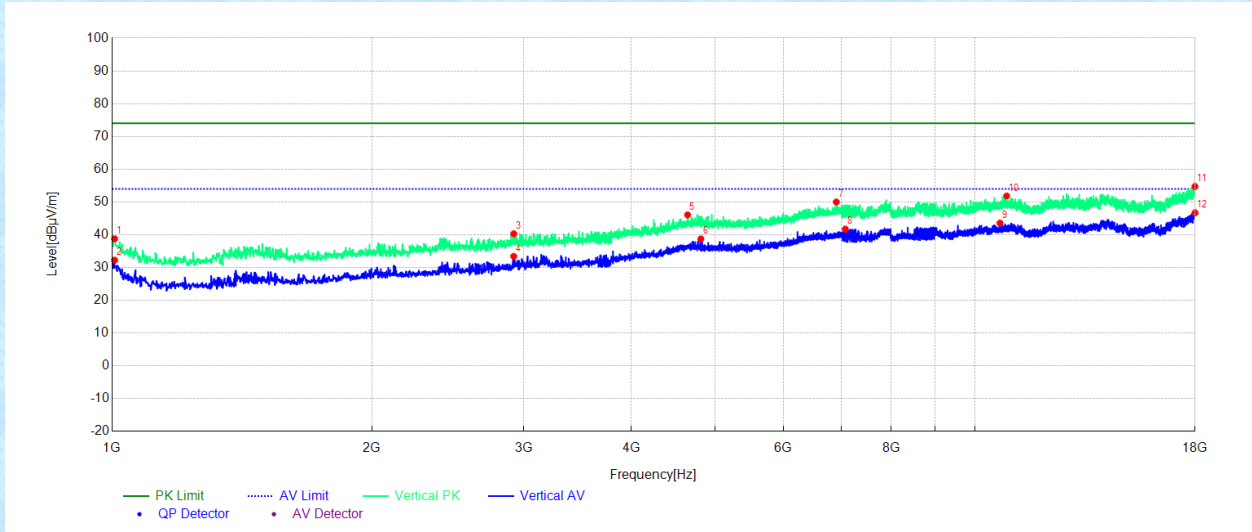
Above 1GHz

Test mode:	Line in mode	Antenna Polarity:	Horizontal
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin[dB μV/m]	Trace	Height [cm]	Angle [°]	Polarity
1	1003.40	37.72	-15.36	74.00	36.28	PK	104	161	Horizontal
2	1003.40	30.35	-15.36	54.00	23.65	AV	103	116	Horizontal
3	1994.60	38.95	-11.91	74.00	35.05	PK	108	293	Horizontal
4	2093.21	29.95	-11.64	54.00	24.05	AV	102	315	Horizontal
5	3006.20	33.35	-8.59	54.00	20.65	AV	106	242	Horizontal
6	3072.51	40.08	-8.37	74.00	33.92	PK	101	187	Horizontal
7	4563.56	46.39	-1.80	74.00	27.61	PK	105	54	Horizontal
8	4725.07	37.62	-1.02	54.00	16.38	AV	107	218	Horizontal
9	7035.60	49.50	3.37	74.00	24.50	PK	106	174	Horizontal
10	7047.50	41.89	3.38	54.00	12.11	AV	104	86	Horizontal
11	13997.80	52.05	9.43	74.00	21.95	PK	103	32	Horizontal
12	14290.23	44.93	9.85	54.00	9.07	AV	104	345	Horizontal

Test mode:	Line in mode	Antenna Polarity:	Vertical
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin[dB μV/m]	Trace	Height [cm]	Angle [°]	Polarity
1	1006.80	38.78	-15.37	74.00	35.22	PK	103	151	Vertical
2	1006.80	32.27	-15.37	54.00	21.73	AV	108	148	Vertical
3	2921.19	40.30	-8.78	74.00	33.70	PK	101	306	Vertical
4	2921.19	33.41	-8.78	54.00	20.59	AV	103	307	Vertical
5	4645.16	46.08	-1.33	74.00	27.92	PK	105	22	Vertical
6	4813.48	38.75	-0.92	54.00	15.25	AV	109	153	Vertical
7	6909.79	50.01	3.20	74.00	23.99	PK	104	214	Vertical
8	7076.41	41.73	3.41	54.00	12.27	AV	102	288	Vertical
9	10694.37	43.57	6.34	54.00	10.43	AV	106	313	Vertical
10	10886.49	51.83	6.57	74.00	22.17	PK	105	274	Vertical
11	17993.20	54.72	14.85	74.00	19.28	PK	103	161	Vertical
12	17998.30	46.71	14.86	54.00	7.29	AV	105	262	Vertical

Note:

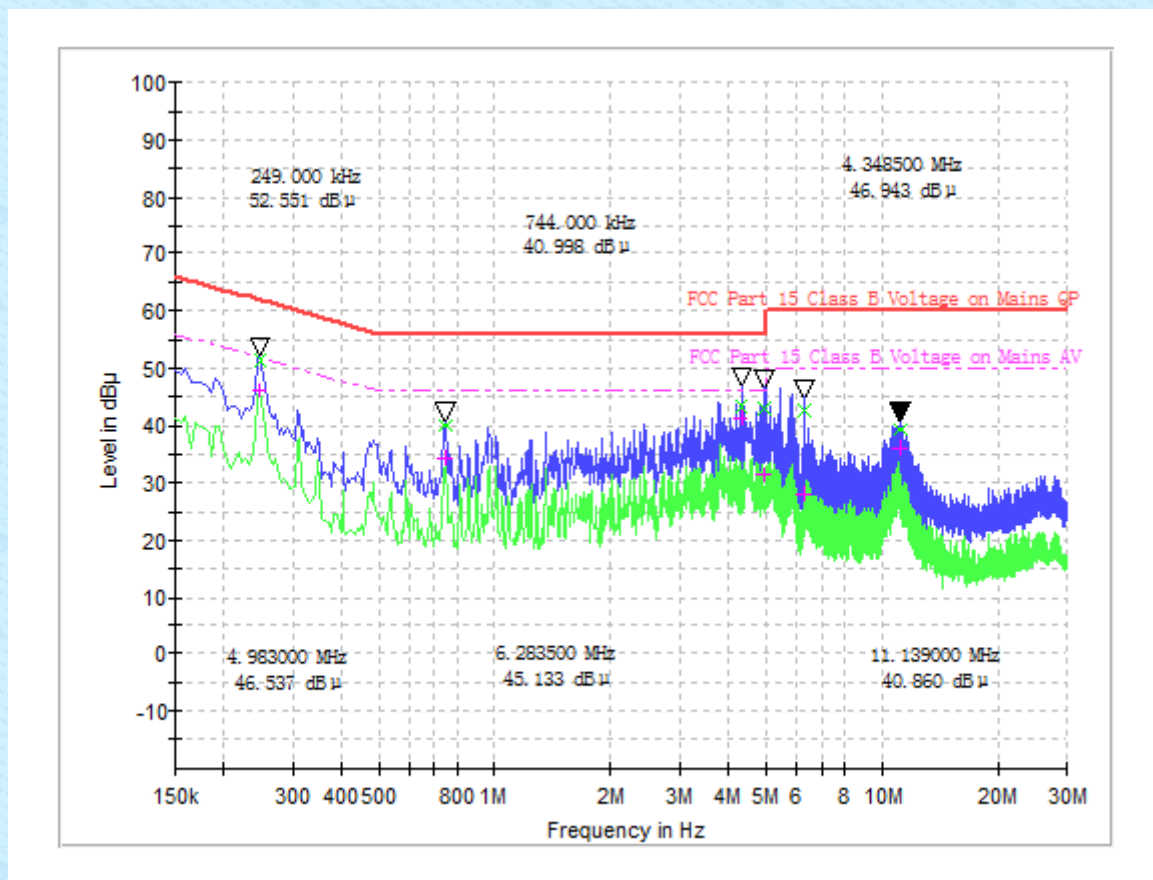
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.

7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107					
Test Method:	ANSI C63.4:2014					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)		Limit (dBμV)			
			Quasi-peak	Average		
	0.15-0.5		66 to 56*	56 to 46*		
	0.5-5		56	46		
	5-30		60	50		
Test setup:						
	Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details, only show the worst case.					
Test results:	Pass					

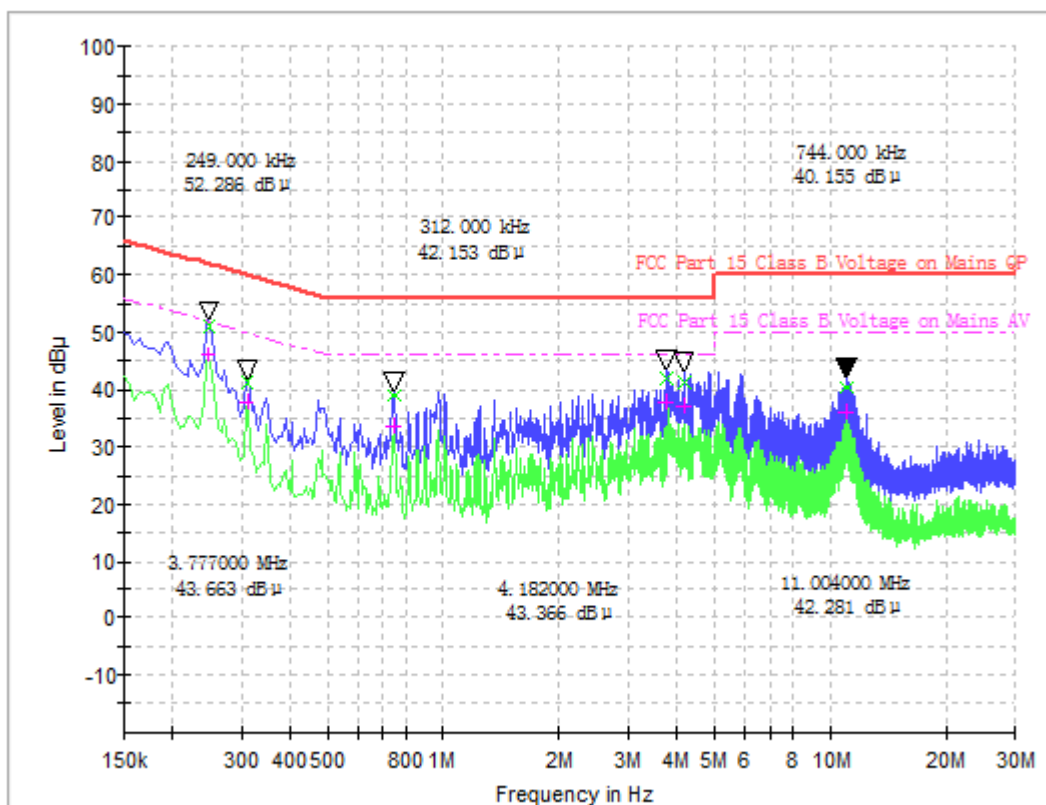
Measurement Data

Test mode:	Line in mode	Phase Polarity:	Line
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Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.249000	51.33	46.19	19.9	10.46	61.8	5.60	51.8
0.744000	39.90	34.17	20.0	16.10	56.0	11.83	46.0
4.348500	43.21	41.31	19.8	12.79	56.0	4.69	46.0
4.983000	43.02	31.27	19.8	12.98	56.0	14.73	46.0
6.283500	42.70	28.00	19.2	17.30	60.0	22.00	50.0
11.139000	39.37	35.90	20.0	20.63	60.0	14.10	50.0

Test mode:	Line in mode	Phase Polarity:	Neutral
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Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.249000	51.12	45.99	19.8	10.67	61.8	5.80	51.8
0.312000	41.25	37.68	19.8	18.67	59.9	12.23	49.9
0.744000	39.10	33.50	19.8	16.90	56.0	12.50	46.0
3.777000	42.02	37.74	19.8	13.98	56.0	8.26	46.0
4.182000	41.40	36.94	19.8	14.60	56.0	9.06	46.0
11.004000	40.48	36.08	19.9	19.52	60.0	13.92	50.0

Notes:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----