

RF Test Report

For

Applicant name: UNNECTO HOLDING LIMITED
Address: 13/F HARBOUR COMMERCIAL BUILDING 122-124 CONNAUGHT ROAD CENTRAL SHEUNG WAN HK
EUT name: Mobile Phone
Brand name: unnecto™
Model Name: Eco 10
Series model number: Refer to section 2
FCC ID: 2ADR3UE010

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF251107R00107
Test standards: FCC CFR Title 47 Part 15 Subpart C (§15.225)
Test conclusion: Pass
Date of sample receipt: 2025-11-07
Test date: 2025-11-07 to 2025-11-20
Date of issue: 2025-11-20
Test by: Sean He
Sean He / Tester

Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by: 
Olic Huang / EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue date	Revisions content
R_V0	2025-12-11	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company name:	UNNECTO HOLDING LIMITED
Address:	13/F HARBOUR COMMERCIAL BUILDING 122-124 CONNAUGHT ROAD CENTRAL SHEUNG WAN HK

2.2 Manufacturer Information

Company name:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 503 5/F SILVERCORD TOWER 2 30 CANTON ROAD TSIMSHATSUI KL HONG KONG

2.3 Factory Information

Company name:	Sichuan koobee communication equipment Co., Ltd.
Address:	Building 2, No.69, West of gangyuan Road, Lingang economic and technological development zone, Yibin City, Sichuan Province, P.R.China

2.4 General Description of Equipment under Test (EUT)

EUT name	Mobile Phone
Under test model name	Eco 10
Series model name	N/A
Description of model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Rating:	Li-ion polymer Battery DC 3.87V 4900mAh 18.963Wh Input: 5.0V $\Rightarrow$ 2.0A 10.0W
Adapter:	Power Adapter: Model: UT-681A-5200MY Input: 100-240V~50/60Hz, 0.35A Output: 5.0V $\Rightarrow$ 2.0A 10.0W

2.5 Technical Information

Operation frequency:	13.56MHz
Channel Numbers:	1
Modulation technology:	ASK
Antenna type:	Loop Coil Antenna

3 Test Information

3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart C (§15.225)	Operation within the band 13.110-14.010 MHz.
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Summary of Test

Clauses	Test Items	Result
§ 15.203	Antenna Requirement	Pass
§ 15.207	AC Power Line Conducted Emission	Pass
§ 15.215(c)	20dB Bandwidth	Pass
§ 15.225(a)	Field Strength of Fundamental	Pass
§ 15.209 § 15.225(d)	Field Strength of Spurious Emissions	Pass
§ 15.225(e)	Frequency Tolerance	Pass
Remark: 1. Pass: met the requirements. 2. N/A: not applicable.		

3.3 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (9kHz ~ 30MHz)	±2.20 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.4 Additions to, deviations, or exclusions from the method

None

3.5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
/	/	/	/	/	/

3.6 Test Equipment List

Radiated Emission Test

Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025/10/17	2026/10/16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025/10/17	2026/10/16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025/10/18	2026/10/17
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2025/5/26	2026/5/25
BELOW-Cable	REBES Talent	9K1G	21101576	2025/8/23	2026/8/22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025/10/18	2026/10/17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025/5/26	2026/5/25
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2025/5/26	2026/5/25
ABOVE-Cable	REBES Talent	1~18G	21101558	2025/8/23	2026/8/22
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025/10/18	2026/10/17
Low Noise Pre- amplifier	Sket	LNPA_1840G-50	SK2022032902	2025/10/17	2026/10/16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2025/8/23	2026/8/22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025/8/23	2026/8/22
Test Software	Frad	EZ EMC	Version: FA-03A2 RE+		

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025/10/17	2026/10/16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025/8/23	2026/8/22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2025/8/23	2026/8/22
Test Software	Frad	EZ EMC	Version: EMC-CON 3A1.1+		

Conducted test method					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Cell Site Test Set	HP	8921A	US35010158	2025/10/17	2026/10/16
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025/10/17	2026/10/16
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025/10/17	2026/10/16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025/10/17	2026/10/16
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025/10/17	2026/10/16
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025/10/17	2026/10/16

DC Power Supply	Tongmen	etm-6050c	20211026123	2025/10/17	2026/10/16
RF Control Unit	Techy	TR1029-1	/	2025/10/17	2026/10/16
RF Sensor Unit	Techy	TR1029-2	/	2025/10/17	2026/10/16
RF shielding box	Yinuoxin Electronics	50*50*50 cm	N/A	2025/5/26	2026/5/25
Test Software	TST Pass	/	Version: 2.0		

4 Test Configuration

4.1 Environment Condition

Selected Values During Tests		
Temperature	Relative Humidity	Ambient Pressure
Normal: +15°C to +35°C Extreme: -30°C to +50°C	20% to 75%	86 kPa to 106 kPa

4.2 Test mode

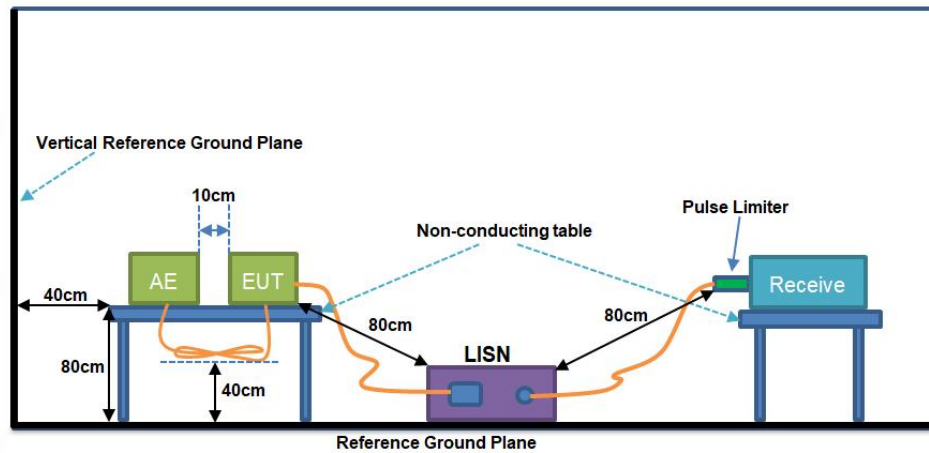
Transmitting mode:	Keep the EUT in continuously transmitting mode with modulation
Remark: Per-scan all kind of data rate, and report only reflects the test data of worst data rate mode.	

4.3 Test procedure

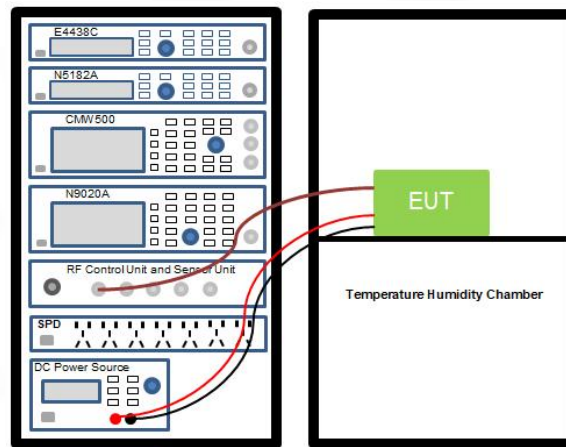
AC Power Line Conducted Emission
The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.
Radiated test method
1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method
1. The antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

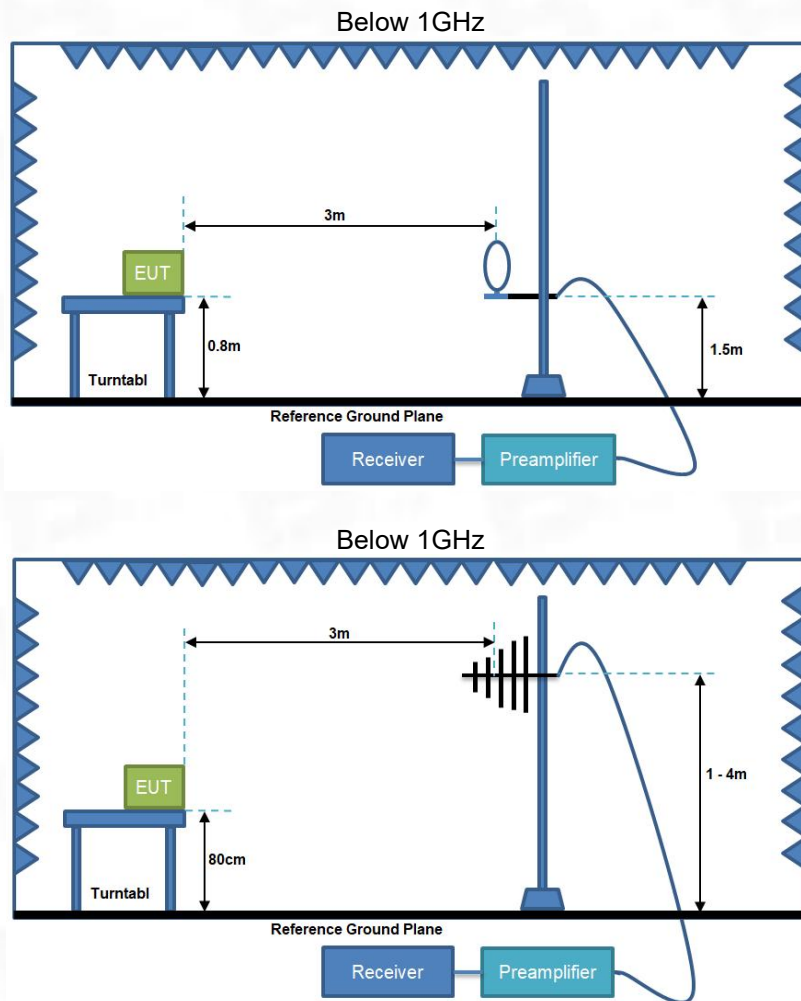
4.4 Test Setup Block

1) Conducted emission measurement:



2) Conducted test method:



3) Radiated test method:

5 Technical requirements specification

5.1 Summary of Test Result

Test Items	Limit	Test data	Verdict
Antenna Requirement	Please refer to §15.203	See Section 5.2	Pass
AC Power Line Conducted Emission	Please refer to §15.207	See Section 5.3	Pass
20dB Bandwidth	Please refer to § 15.215(c)	See Section 5.4	Pass
Field Strength of Fundamental	Please refer to §15.225(a)	See Section 5.5	Pass
Field Strength of Spurious Emissions	Please refer to §15.209 and §15.225(d)	See Section 5.6	Pass
Frequency Tolerance	Please refer to §15.225(e)	See Section 5.7	Pass

5.2 Antenna Requirement

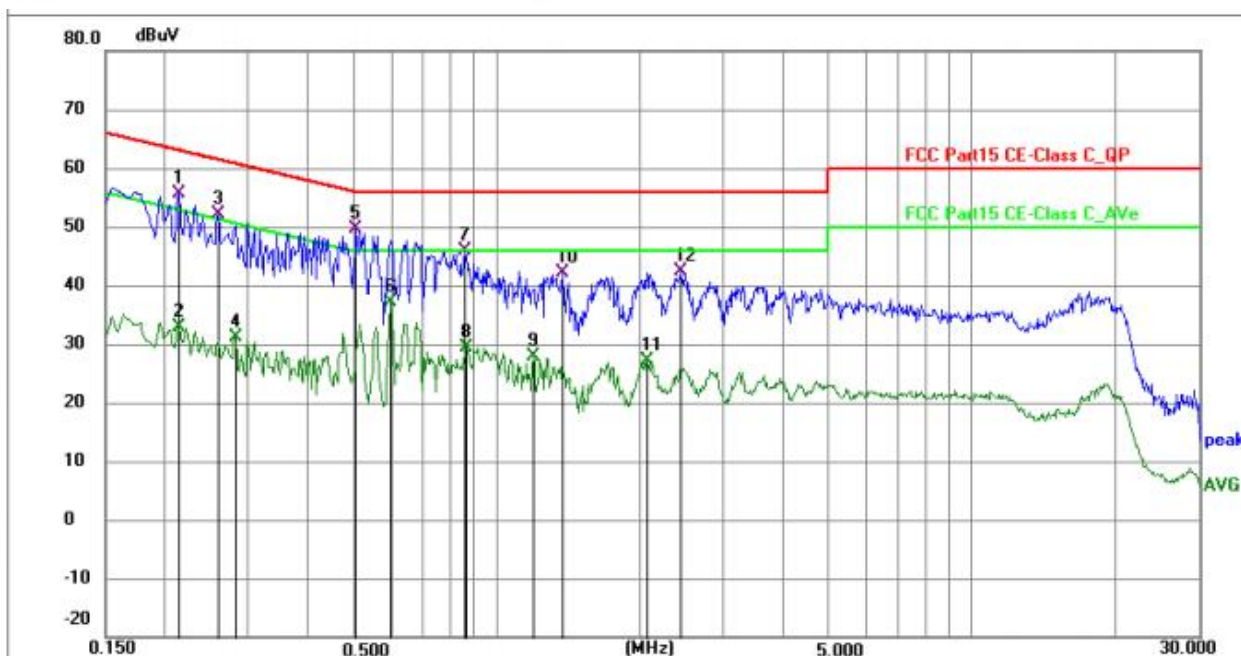
§15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.3 AC Power Line Conducted Emission

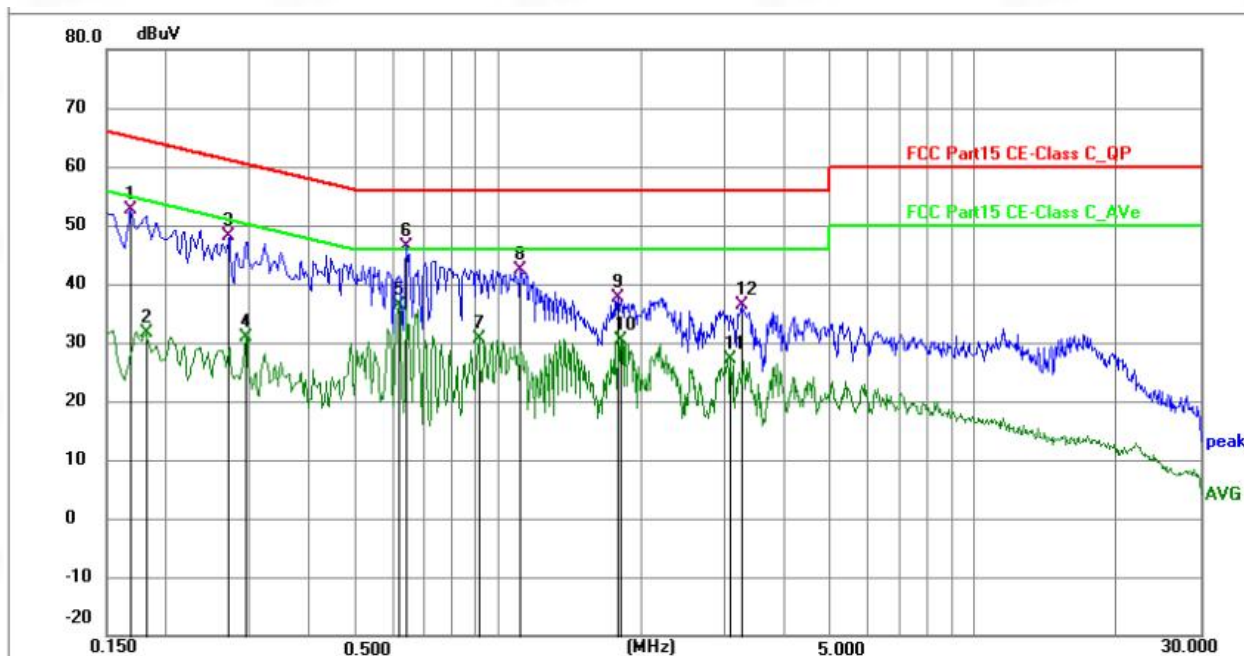
Temperature	22.5°C	Humidity	56%
Test voltage	AC 120V	Test Engineer	Sean He

Test phase: L phase



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2130	45.53	10.12	55.65	63.09	-7.44	QP	P	
2	0.2130	22.87	10.12	32.99	53.09	-20.10	AVG	P	
3	0.2580	42.13	10.07	52.20	61.50	-9.30	QP	P	
4	0.2805	21.13	10.10	31.23	50.80	-19.57	AVG	P	
5 *	0.5051	39.55	10.12	49.67	56.00	-6.33	QP	P	
6	0.5955	27.11	10.13	37.24	46.00	-8.76	AVG	P	
7	0.8565	35.68	10.11	45.79	56.00	-10.21	QP	P	
8	0.8655	19.21	10.11	29.32	46.00	-16.68	AVG	P	
9	1.1940	17.70	10.15	27.85	46.00	-18.15	AVG	P	
10	1.3740	31.91	10.21	42.12	56.00	-13.88	QP	P	
11	2.0760	16.92	10.26	27.18	46.00	-18.82	AVG	P	
12	2.4360	32.07	10.23	42.30	56.00	-13.70	QP	P	

Test phase: N phase

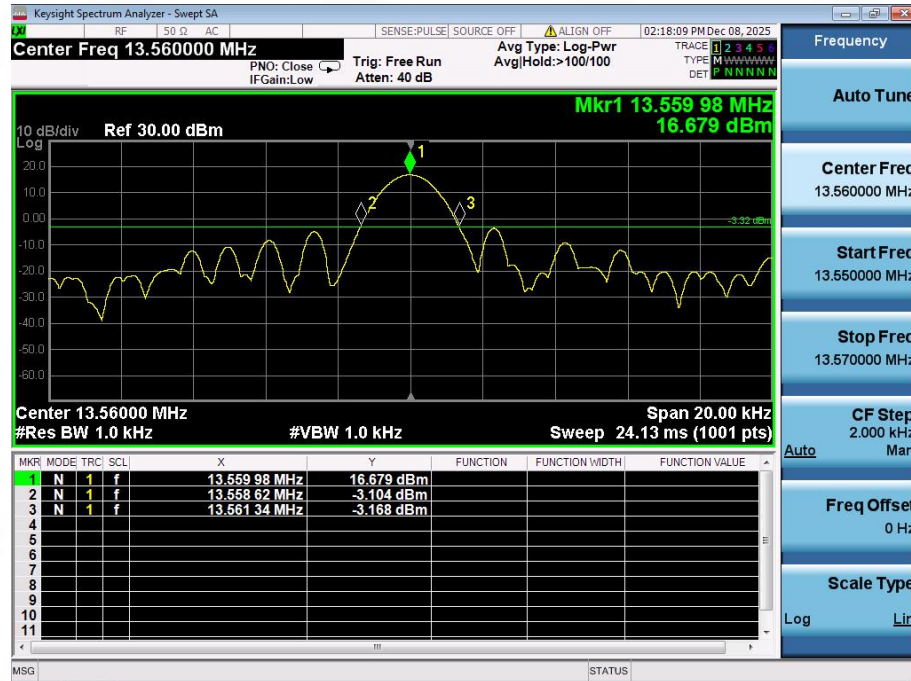


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	42.62	10.11	52.73	65.06	-12.33	QP	P	
2	0.1814	21.56	10.11	31.67	54.42	-22.75	AVG	P	
3	0.2714	37.96	10.12	48.08	61.07	-12.99	QP	P	
4	0.2940	20.66	10.12	30.78	50.41	-19.63	AVG	P	
5 *	0.6180	26.30	10.15	36.45	46.00	-9.55	AVG	P	
6	0.6402	36.20	10.15	46.35	56.00	-9.65	QP	P	
7	0.9102	20.53	10.17	30.70	46.00	-15.30	AVG	P	
8	1.1130	32.32	10.17	42.49	56.00	-13.51	QP	P	
9	1.7880	27.38	10.21	37.59	56.00	-18.41	QP	P	
10	1.8104	20.10	10.21	30.31	46.00	-15.69	AVG	P	
11	3.0840	16.81	10.26	27.07	46.00	-18.93	AVG	P	
12	3.2505	26.09	10.26	36.35	56.00	-19.65	QP	P	

5.4 20dB Bandwidth

Test Frequency (MHz)	20dB Bandwidth (kHz)	Limits (kHz)
13.56	2.72	11.20
Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.		

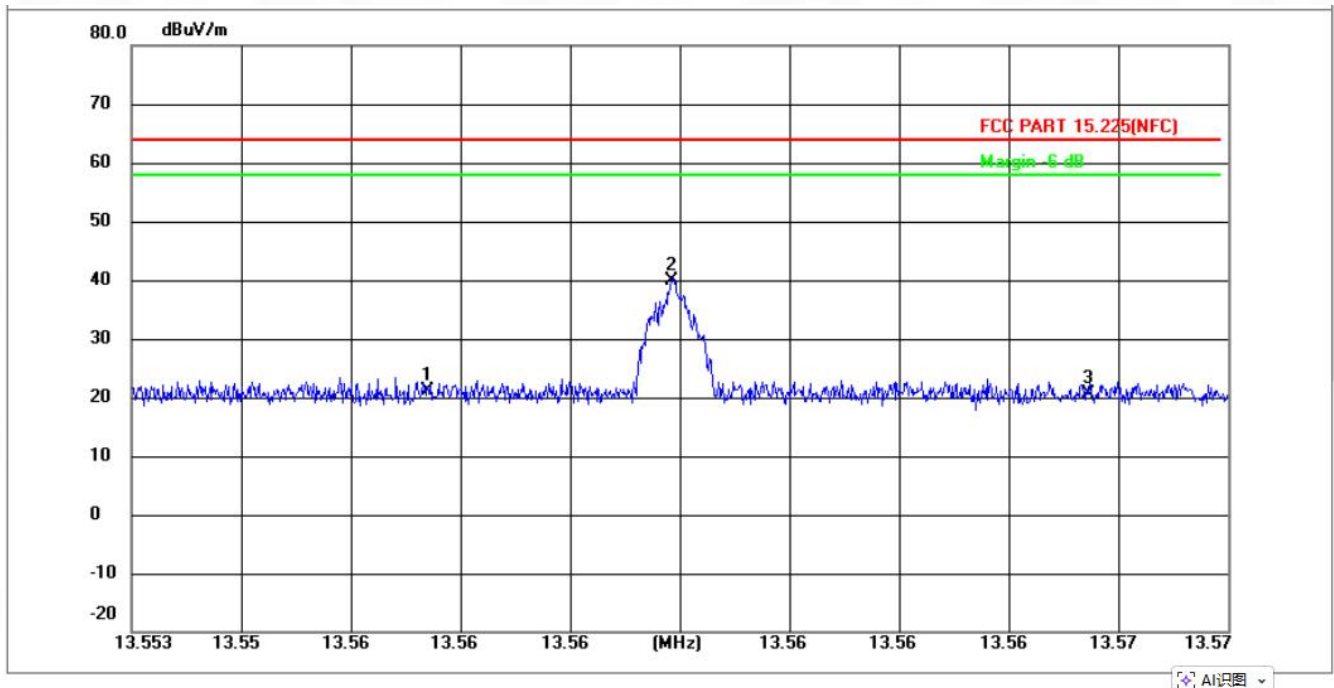
Test Plot as Follows:



5.5 Field Strength of Fundamental

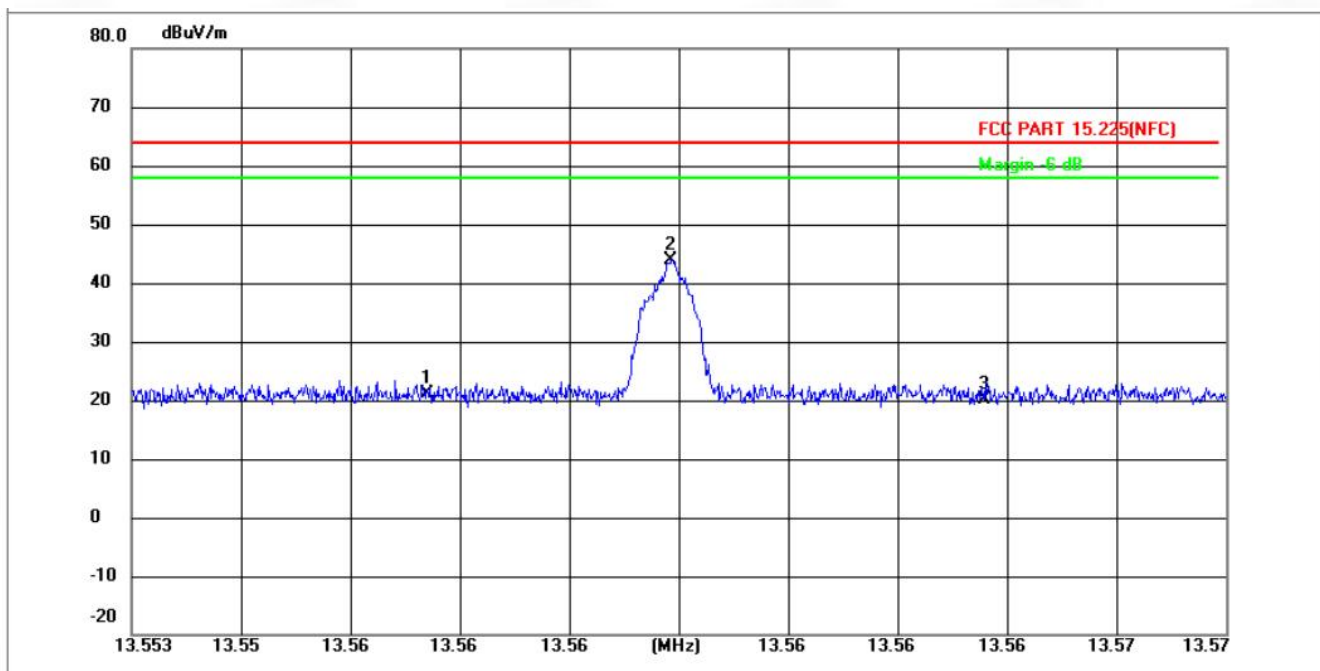
Temperature	22.5°C	Humidity	56%
Test voltage	DC 3.87 From Battery	Test Engineer	Sean He

Polarization: Coplanar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	13.5565	51.31	-30.20	21.11	64.00	-42.89	peak	P
2 *	13.5600	70.09	-30.20	39.89	64.00	-24.11	peak	P
3	13.5652	50.84	-30.20	20.64	64.00	-43.36	peak	P

Polarization: Coaxial

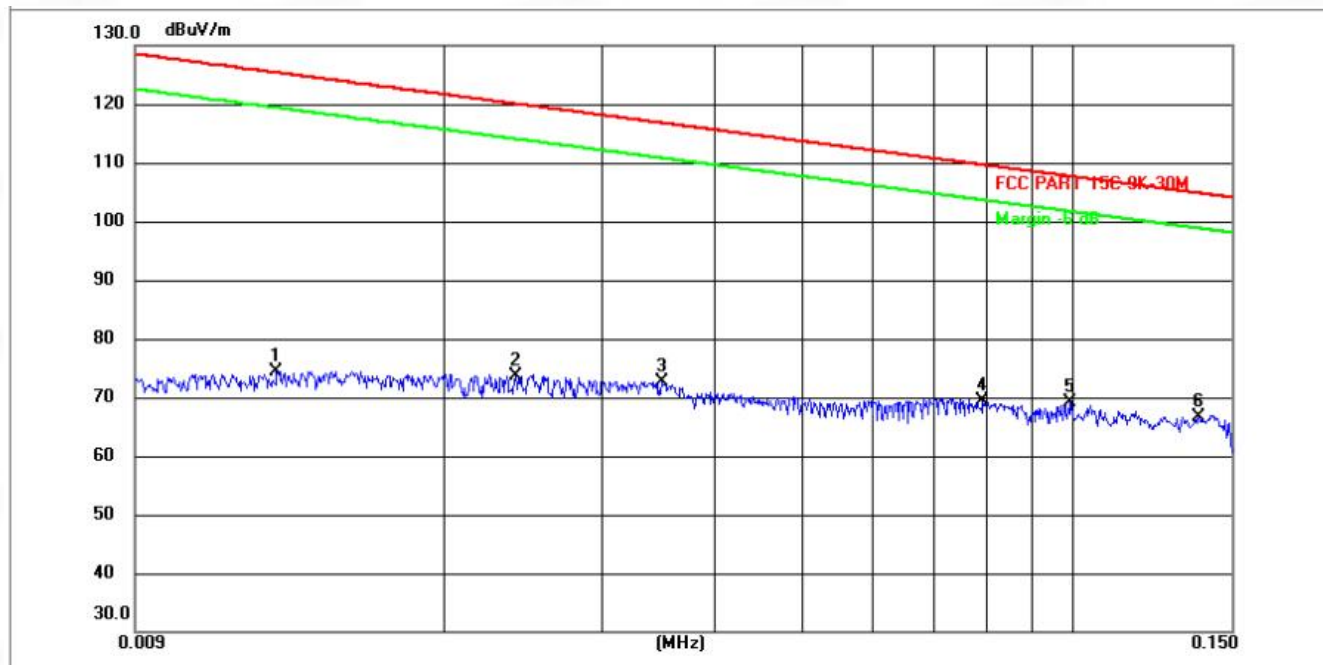


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	13.5565	51.31	-30.20	21.11	64.00	-42.89	peak	P
2 *	13.5600	74.09	-30.20	43.89	64.00	-20.11	peak	P
3	13.5640	50.33	-30.20	20.13	64.00	-43.87	peak	P

5.6 Field Strength of Spurious Emissions

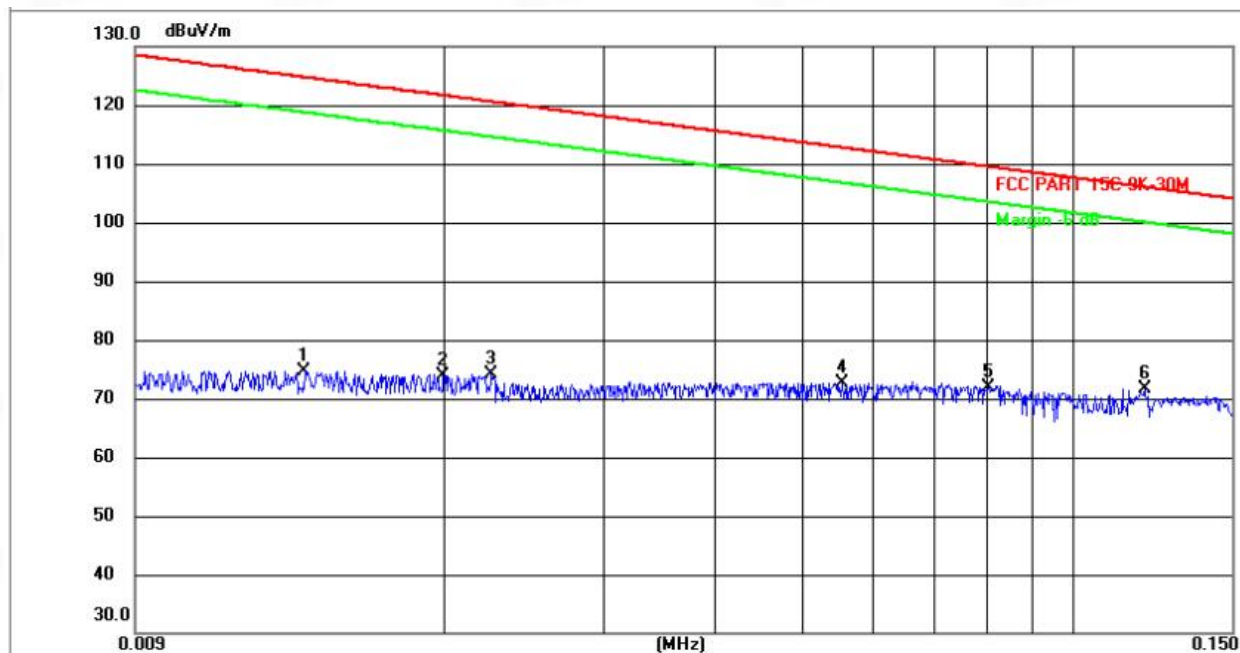
Temperature	22.5°C	Humidity	56%
Test voltage	DC 3.87 From Battery	Test Engineer	Sean He

Test Frequency: 9 kHz to 0.15 MHz, Coplanar



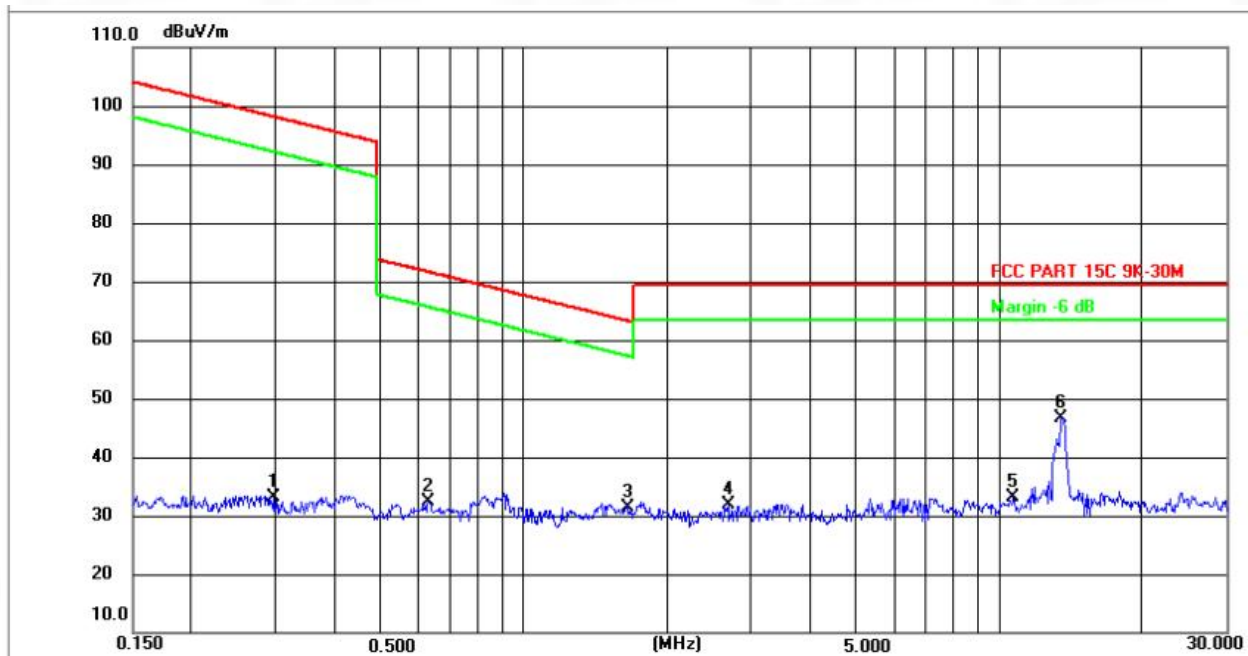
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0130	105.79	-31.44	74.35	125.31	-50.96	peak	P
2	0.0240	105.13	-31.43	73.70	119.99	-46.29	peak	P
3	0.0348	104.16	-31.42	72.74	116.76	-44.02	peak	P
4	0.0793	100.62	-31.21	69.41	109.61	-40.20	peak	P
5	0.0995	100.25	-31.14	69.11	107.64	-38.53	peak	P
6 *	0.1381	97.71	-31.05	66.66	104.79	-38.13	peak	P

Test Frequency: 9 kHz to 0.15 MHz, Coaxial



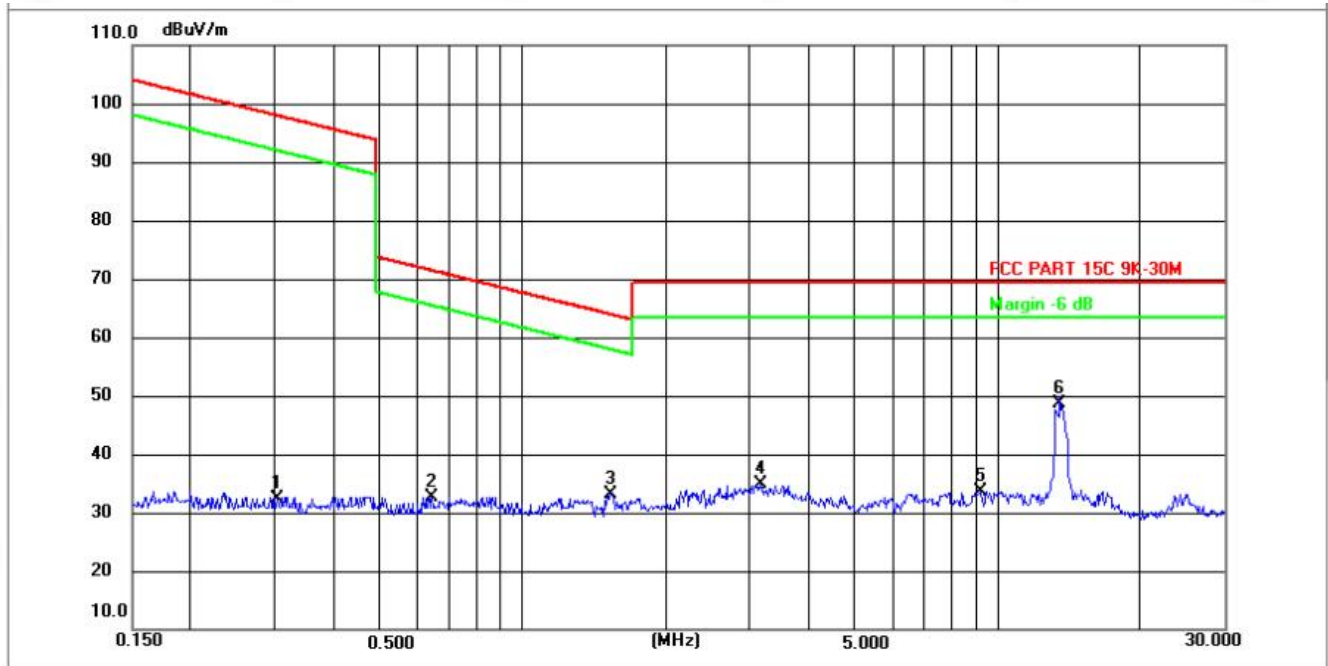
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0140	106.08	-31.44	74.64	124.66	-50.02	peak	P
2	0.0199	105.43	-31.43	74.00	121.61	-47.61	peak	P
3	0.0225	105.55	-31.43	74.12	120.55	-46.43	peak	P
4	0.0552	103.99	-31.40	72.59	112.75	-40.16	peak	P
5	0.0803	103.19	-31.21	71.98	109.50	-37.52	peak	P
6 *	0.1198	102.62	-31.10	71.52	106.03	-34.51	peak	P

Test Frequency: 0.15 MHz to 30 MHz, Coplanar



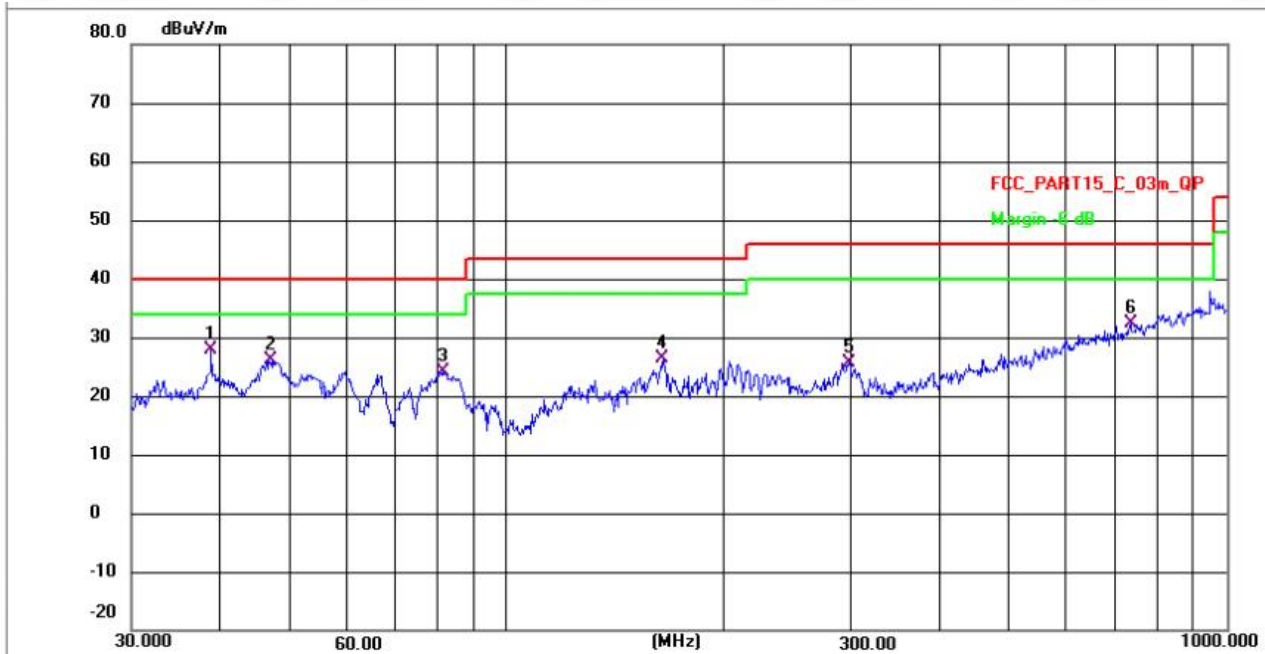
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.2963	63.94	-30.71	33.23	98.17	-64.94	peak	P
2	0.6288	62.39	-29.99	32.40	71.64	-39.24	peak	P
3	1.6493	59.07	-27.81	31.26	63.29	-32.03	peak	P
4	2.6853	57.61	-25.66	31.95	69.50	-37.55	peak	P
5	10.7046	63.54	-30.38	33.16	69.50	-36.34	peak	P
6 *	13.5600	76.84	-30.20	46.64	69.50	-22.86	peak	P

Test Frequency: 0.15 MHz to 30 MHz, Coaxial



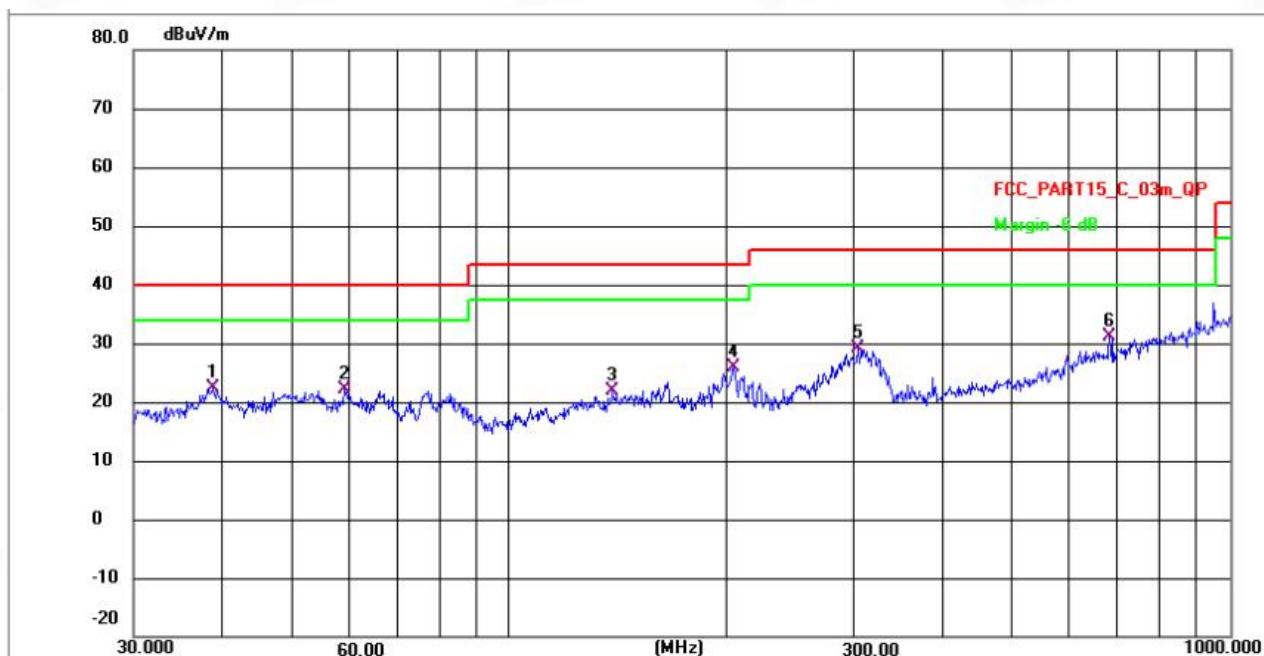
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.3034	63.14	-30.71	32.43	97.96	-65.53	peak	P
2	0.6422	62.50	-29.96	32.54	71.46	-38.92	peak	P
3	1.5394	61.10	-28.03	33.07	63.88	-30.81	peak	P
4	3.1563	59.45	-24.68	34.77	69.50	-34.73	peak	P
5	9.1800	64.04	-30.50	33.54	69.50	-35.96	peak	P
6 *	13.5600	78.94	-30.20	48.74	69.50	-20.76	peak	P

Test Frequency: 30 MHz to 1 GHz, Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	38.8196	37.94	-10.05	27.89	40.00	-12.11	QP	P
2	47.0770	35.79	-9.70	26.09	40.00	-13.91	QP	P
3	81.3542	33.66	-9.48	24.18	40.00	-15.82	QP	P
4	165.4866	53.42	-27.14	26.28	43.50	-17.22	QP	P
5	298.2681	51.43	-25.80	25.63	46.00	-20.37	QP	P
6	737.0711	54.58	-22.17	32.41	46.00	-13.59	QP	P

Test Frequency: 30 MHz to 1 GHz, Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	38.8196	32.55	-10.05	22.50	40.00	-17.50	QP	P
2	58.9217	31.63	-9.50	22.13	40.00	-17.87	QP	P
3	139.1170	49.42	-27.44	21.98	43.50	-21.52	QP	P
4	204.2375	52.50	-26.72	25.78	43.50	-17.72	QP	P
5	305.1444	54.83	-25.73	29.10	46.00	-16.90	QP	P
6 *	681.1530	53.69	-22.60	31.09	46.00	-14.91	QP	P

5.7 Frequency Tolerance

Frequency Stability V.S. Temperature Measurement:

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
3.87	-20	0.074	0.0055	±0.01	Pass
	-10	0.075	0.0055	±0.01	Pass
	0	-0.073	-0.0054	±0.01	Pass
	+10	0.079	0.0058	±0.01	Pass
	+20	-0.065	-0.0048	±0.01	Pass
	+30	0.074	0.0055	±0.01	Pass
	+40	0.078	0.0058	±0.01	Pass
	+50	-0.035	-0.0026	±0.01	Pass

Frequency Stability V.S. Voltage Measurement:

Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
25.0	3.48	-0.085	-0.0062	±0.01	Pass
	3.87	0.071	0.0052	±0.01	Pass
	4.26	0.093	0.0069	±0.01	Pass

6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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