

TEST REPORT

Product : Wio-LR1121
Trade mark : seed studio
Model/Type reference : Wio-LR1121, Wio-LR1121-N
Serial Number : N/A
Report Number : EED32R81228402
FCC ID : Z4T-WIOLR1121
Date of Issue : Apr. 07, 2026
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

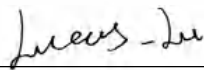
Prepared for:

Seed Technology Co., Ltd.**9F, G3 Building, TCL International E City, Zhongshanyuan Road,
Nanshan District, Shenzhen, Guangdong Province, P.R.C**

Prepared by:

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Compiled by:



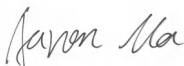
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Date:

Apr. 07, 2026

Check No.: 7831180725



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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	PASS
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
DTS Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	PASS
20dB Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Band Edge Measurements	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS

Remark:

Model No.: Wio-LR1121, Wio-LR1121-N

Model Wio-LR1121, Wio-LR1121-N was tested, The electrical circuit design, layout, components used, and internal wiring are identical, Except for the presence of an IPEX4 connector and antenna output path configuration via an internal 0 Ω resistor.

Feature	Wio-LR1121	Wio-LR1121-N
IPEX4 Connector	Present	Not Present
Antenna Output Path	Routed to IPEX4 Connector	Routed to Module Pad
Configuration Method	0 Ω resistor bypasses pad	0 Ω resistor connects to pad
RF Performance	Identical	Identical
Functionality	Identical	Identical
Other Components	Identical	Identical

3 General Information

3.1 Client Information

Applicant:	Seeed Technology Co., Ltd.
Address of Applicant:	9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C
Manufacturer:	Seeed Technology Co., Ltd.
Address of Manufacturer:	9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C
Factory:	Shenzhen Xinxian Technology Co., Limited
Address of Factory:	F5, Building B17, Hengfeng Industrial City, No. 739 Zhoushi Rd, Baoan District, Shenzhen, Guangdong, P.R.C.

3.2 General Description of EUT

Product Name:	Wio-LR1121
Model No.:	Wio-LR1121, Wio-LR1121-N
Test model No.:	Wio-LR1121, Wio-LR1121-N
Trade Mark:	seeed studio
Operation Frequency:	LoRa(DTS) 500KHz bandwidth: 903MHz~914.2MHz LoRa(FHSS) 125KHz bandwidth: 902.3MHz~914.9MHz LR-FHSS 1.523MHz bandwidth: 903MHz~914.2MHz
Modulation Technique:	LoRa/LR-FHSS
Number of Channel:	LoRa(DTS): 8 LoRa(FHSS): 64 LR-FHSS: 8
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type & Gain:	FPC Antenna: -2.1dBi Spring Antenna: 1.61dBi Fiberglass Antenna: 9.28dBi
Power Supply:	DC 5V
Test Voltage:	DC 5V
Sample Received Date:	Jul.17, 2025
Sample tested Date:	Jul.17, 2025 to Feb. 08, 2026

Operation Frequency of each channel

LoRa(DTS):

Channel Number	Freq. (MHz)	Bandwidth
65	903	500KHz
66	904.6	500KHz
67	906.2	500KHz
68	907.8	500KHz
69	909.4	500KHz
70	911	500KHz
71	912.6	500KHz
72	914.2	500KHz

LoRa(FHSS):

Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)
0	902.3	21	906.5	42	910.7	63	914.9
1	902.5	22	906.7	43	910.9		
2	902.7	23	906.9	44	911.1		
3	902.9	24	907.1	45	911.3		
4	903.1	25	907.3	46	911.5		
5	903.3	26	907.5	47	911.7		
6	903.5	27	907.7	48	911.9		
7	903.7	28	907.9	49	912.1		
8	903.9	29	908.1	50	912.3		
9	904.1	30	908.3	51	912.5		
10	904.3	31	908.5	52	912.7		
11	904.5	32	908.7	53	912.9		
12	904.7	33	908.9	54	913.1		
13	904.9	34	909.1	55	913.3		
14	905.1	35	909.3	56	913.5		
15	905.3	36	909.5	57	913.7		
16	905.5	37	909.7	58	913.9		
17	905.7	38	909.9	59	914.1		
18	905.9	39	910.1	60	914.3		
19	906.1	40	910.3	61	914.5		
20	906.3	41	910.5	62	914.7		

LR-FHSS:

Channel Number	Freq. (MHz)	Bandwidth
65	903	1.523MHz
66	904.6	1.523MHz
67	906.2	1.523MHz
68	907.8	1.523MHz
69	909.4	1.523MHz
70	911	1.523MHz
71	912.6	1.523MHz
72	914.2	1.523MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test.

3.3 Test Configuration

EUT Test Software Settings:			
Software:		sscom5.13.1.exe	
EUT Power Grade:		Default (Power level is built-in set parameters and cannot be changed and selected)	
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.			
Mode	Modulation	Channel	Frequency(MHz)
a	LoRa(DTS)	CH65	903
b		CH69	909.4
c		CH72	914.2
d	LoRa(FHSS)	CH0	902.3
e		CH31	908.5
f		CH63	914.9
g	LR-FHSS	CH65	903
h		CH69	909.4
i		CH72	914.2

3.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-0D8GXYQ2X10	FCC&CE	CTI

3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

3.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

3.8 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024 11-25-2025	12-04-2025 11-24-2026
Spectrum Analyzer	R&S	FSW43	102978	08-12-2024 08-11-2025	08-11-2025 08-10-2026
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024 02-14-2025	11-29-2025 02-13-2026
DC Power	Keysight	E3642A	MY56376072	11-30-2024 11-13-2025	11-29-2025 11-12-2026
Communication test set	R&S	CMW500	169004	03-03-2025 02-06-2026	03-02-2026 02-05-2027
RF control unit(power unit)	JS Tonscend	JS0806-2	22G8060592	07-22-2024 07-21-2025	07-21-2025 07-20-2026
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	2206200002	05-12-2025	05-11-2026
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024 11-13-2025	11-29-2025 11-12-2026
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-25-2026
BT&Wi-Fi Automatic test software	JS Tonscend	JS1120-3	V3.3.20	N/A	N/A

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-16-2025	06-15-2026
Signal Generator	R&S	SMBV100A	262454	09-02-2024 08-11-2025	09-01-2025 08-10-2026
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024 08-11-2025	07-17-2025 08-10-2026
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-16-2025	06-15-2026
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024 11-13-2025	11-29-2025 11-12-2026
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-15-2026
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	N/A	N/A

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-08-2025	04-07-2026
Temperature/ Humidity Indicator	Defu	TH128	/	03-31-2025	03-30-2026
LISN	R&S	ENV216	100098	09-19-2024 09-13-2025	09-18-2025 09-12-2026
Barometer	changchun	DYM3	1188	05-14-2025	05-13-2026
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	N/A	N/A
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-07-2025	06-06-2026
ISN	TESEQ	ISN T800	30297	12-05-2024 11-24-2025	12-04-2025 11-23-2026

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESC17	100938-003	09/07/2024 09/03/2025	09/06/2025 09/02/2026
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024 08/11/2025	07/17/2025 08/10/2026
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/14/2025	05/13/2026
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/07/2025	04/06/2026
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024 11/25/2025	12/04/2025 11/24/2026
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/07/2025	04/06/2026
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	05/26/2025	05/25/2026
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	N/A	N/A
Cable line	Fulai(7M)	SF106	5219/6A	01/13/2024	01/12/2027
Cable line	Fulai(6M)	SF106	5220/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5216/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5217/6A	01/13/2024	01/12/2027

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025 12-22-2025	01-03-2026 12-21-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025 12-22-2025	01-13-2026 12-21-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025 12-22-2025	01-13-2026 12-21-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-12-2025	04-11-2026
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-12-2025	04-11-2026
Horn Antenna	ETS-LINDGREN	3117	57407	06-29-2025	06-28-2026
Preamplifier	EMCI	EMC001330	980563	03-03-2025 02-06-2026	03-02-2026 02-07-2027
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-07-2025	07-06-2026
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024 11-25-2025	12-04-2025 11-24-2026
Communication test set	R&S	CMW500	102898	01-04-2025 12-22-2025	01-03-2026 12-21-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-31-2025	03-30-2026
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	N/A	N/A
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027

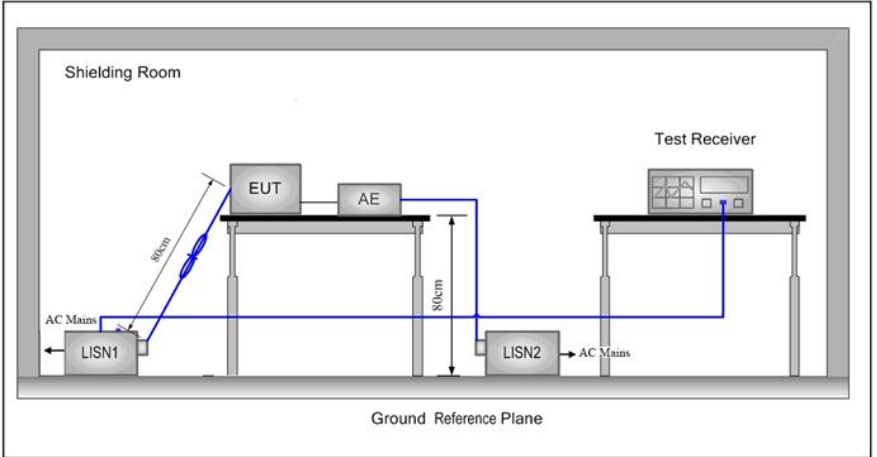
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	Please see Internal photos
The best case gain of the FPC antenna is -2.1dBi. The best case gain of the Spring antenna is 1.61dBi. The best case gain of the Fiberglass antenna is 9.28dBi.	

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10 2020		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to		

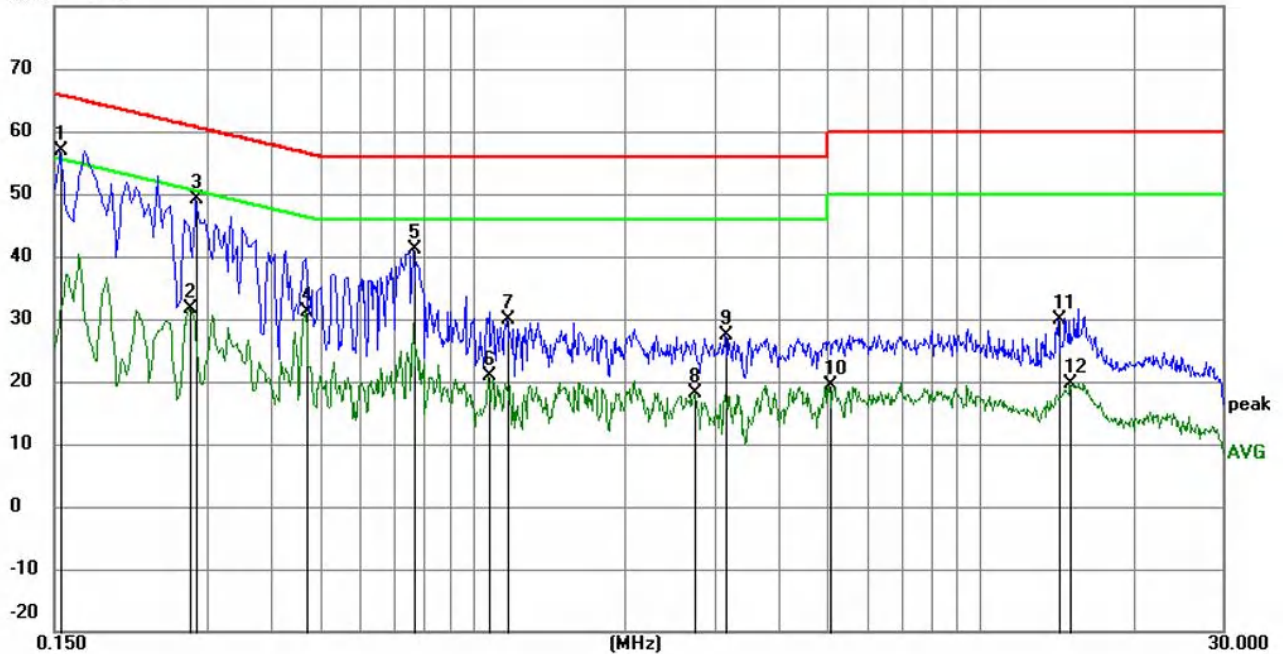
	ANSI C63.10 2020 on conducted measurement.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	All modes were tested, only the worst case mode d was recorded in the report. Only the worst case is recorded in the report.
Test Results:	Pass

FPC Antenna:

Measurement Data

Live line:

80.0 dBuV



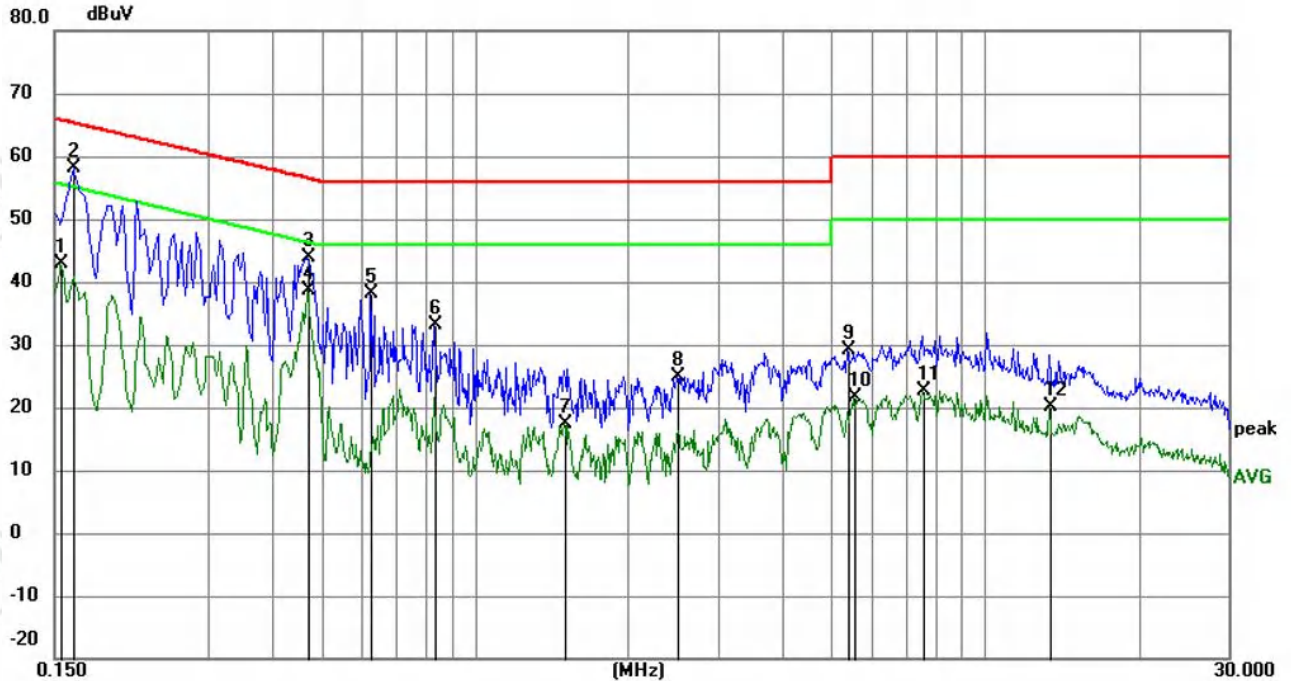
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1545	46.72	10.28	57.00	65.75	-8.75	QP	
2		0.2760	21.55	10.15	31.70	50.94	-19.24	AVG	
3		0.2850	39.06	10.14	49.20	60.67	-11.47	QP	
4		0.4695	21.10	10.08	31.18	46.52	-15.34	AVG	
5		0.7665	30.94	10.16	41.10	56.00	-14.90	QP	
6		1.0725	10.77	10.18	20.95	46.00	-25.05	AVG	
7		1.1670	19.77	10.18	29.95	56.00	-26.05	QP	
8		2.7465	8.03	10.14	18.17	46.00	-27.83	AVG	
9		3.1470	17.23	10.13	27.36	56.00	-28.64	QP	
10		5.0370	9.27	10.06	19.33	50.00	-30.67	AVG	
11		14.2755	20.11	9.87	29.98	60.00	-30.02	QP	
12		15.0540	9.80	9.86	19.66	50.00	-30.34	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

FPC Antenna:

Neutral line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	32.70	10.28	42.98	55.75	-12.77	AVG	
2	*	0.1635	47.85	10.26	58.11	65.28	-7.17	QP	
3		0.4695	33.71	10.08	43.79	56.52	-12.73	QP	
4		0.4695	28.51	10.08	38.59	46.52	-7.93	AVG	
5		0.6270	27.97	10.11	38.08	56.00	-17.92	QP	
6		0.8340	22.90	10.18	33.08	56.00	-22.92	QP	
7		1.5000	7.19	10.17	17.36	46.00	-28.64	AVG	
8		2.4900	14.67	10.15	24.82	56.00	-31.18	QP	
9		5.3745	19.17	10.05	29.22	60.00	-30.78	QP	
10		5.5590	11.70	10.05	21.75	50.00	-28.25	AVG	
11		7.5390	12.73	10.02	22.75	50.00	-27.25	AVG	
12		13.3800	10.13	9.89	20.02	50.00	-29.98	AVG	

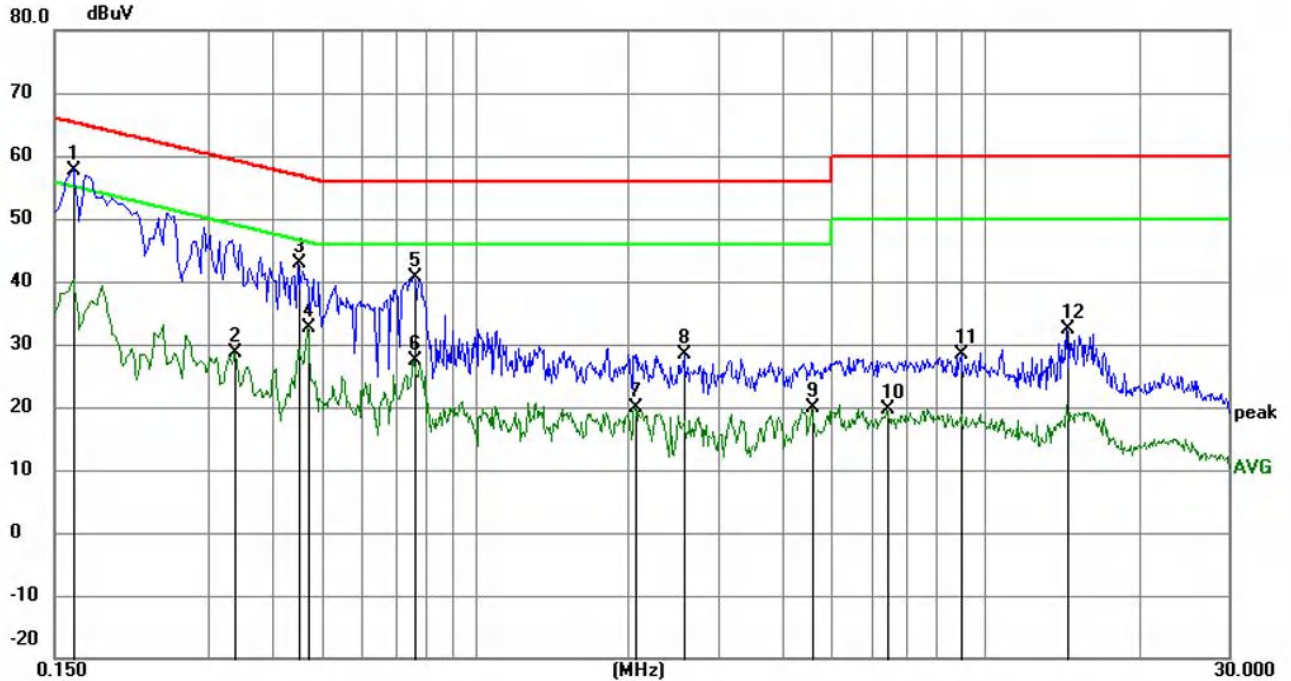
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Spring Antenna:

Measurement Data

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1635	47.49	10.26	57.75	65.28	-7.53	QP	
2		0.3390	18.55	10.11	28.66	49.23	-20.57	AVG	
3		0.4515	32.91	10.08	42.99	56.85	-13.86	QP	
4		0.4695	22.60	10.08	32.68	46.52	-13.84	AVG	
5		0.7620	30.40	10.16	40.56	56.00	-15.44	QP	
6		0.7620	17.13	10.16	27.29	46.00	-18.71	AVG	
7		2.0579	9.69	10.17	19.86	46.00	-26.14	AVG	
8		2.5710	18.11	10.15	28.26	56.00	-27.74	QP	
9		4.5870	9.71	10.08	19.79	46.00	-26.21	AVG	
10		6.4410	9.56	10.04	19.60	50.00	-30.40	AVG	
11		9.0105	18.45	9.98	28.43	60.00	-31.57	QP	
12		14.4645	22.57	9.87	32.44	60.00	-27.56	QP	

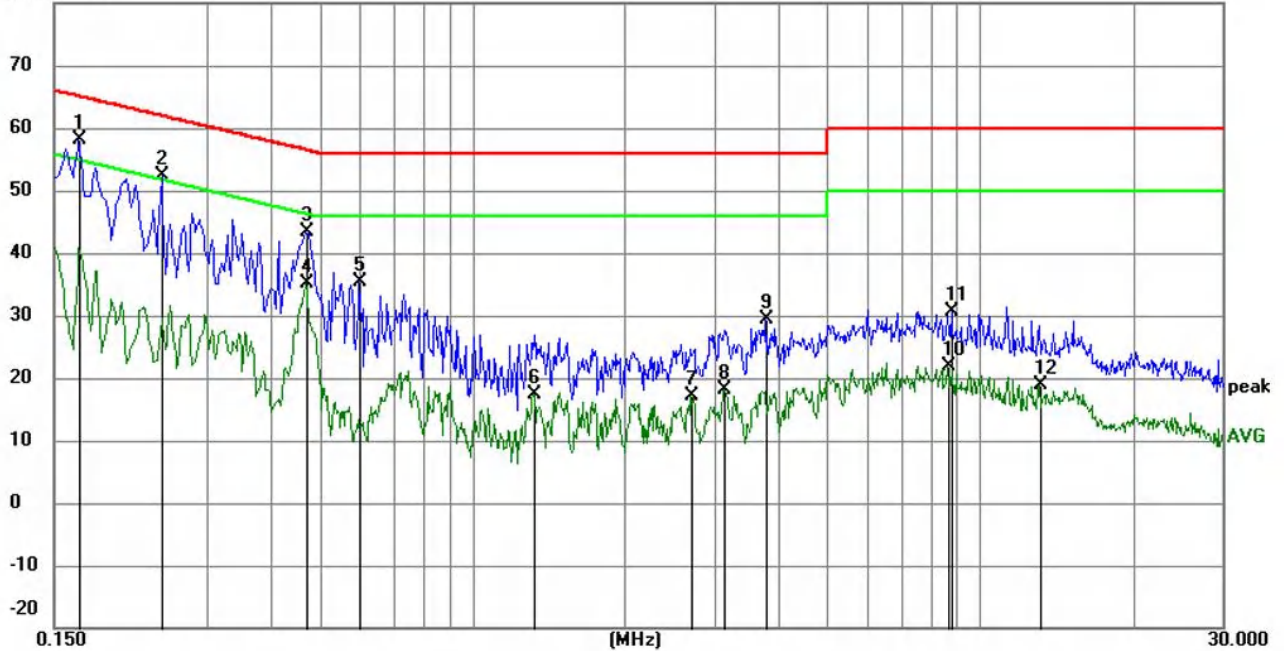
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Spring Antenna

Neutral line:

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	47.87	10.26	58.13	65.06	-6.93	QP	
2		0.2445	42.13	10.17	52.30	61.94	-9.64	QP	
3		0.4695	33.24	10.08	43.32	56.52	-13.20	QP	
4		0.4695	25.13	10.08	35.21	46.52	-11.31	AVG	
5		0.6000	25.19	10.10	35.29	56.00	-20.71	QP	
6		1.3200	7.31	10.18	17.49	46.00	-28.51	AVG	
7		2.7015	7.04	10.14	17.18	46.00	-28.82	AVG	
8		3.1380	8.01	10.13	18.14	46.00	-27.86	AVG	
9		3.7815	19.35	10.10	29.45	56.00	-26.55	QP	
10		8.6459	11.91	9.99	21.90	50.00	-28.10	AVG	
11		8.7944	20.64	9.98	30.62	60.00	-29.38	QP	
12		13.0740	8.96	9.89	18.85	50.00	-31.15	AVG	

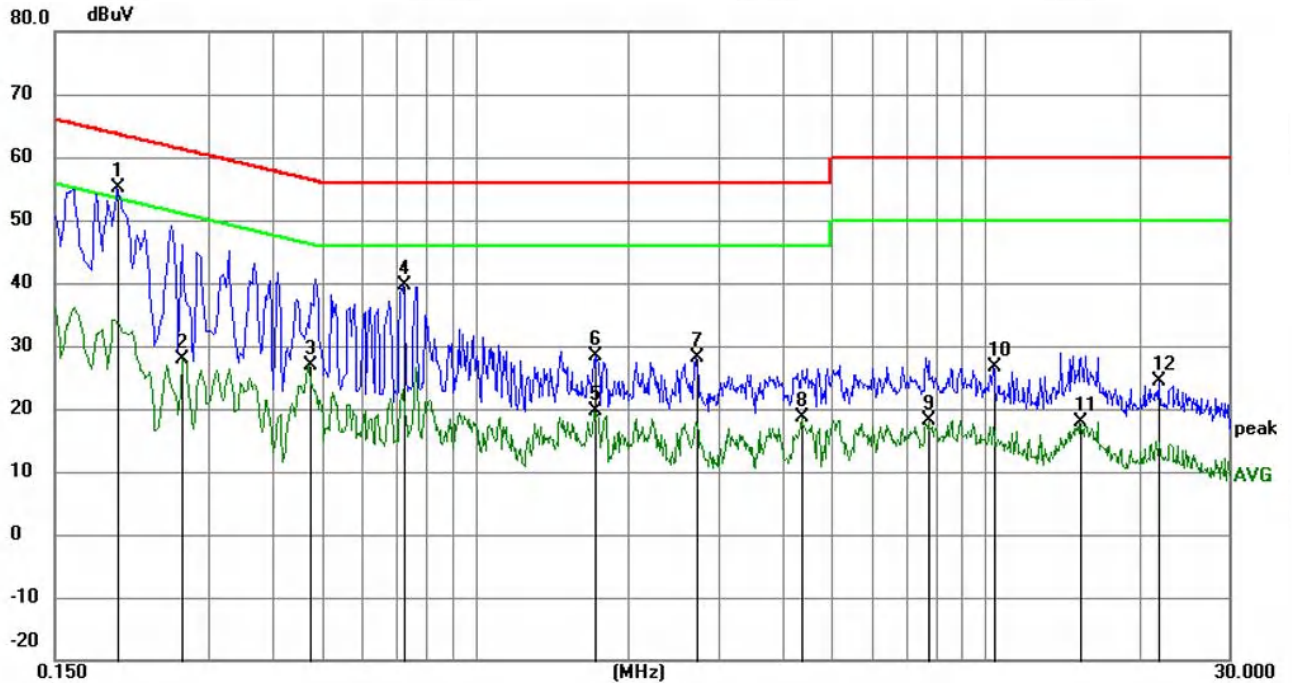
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Fiberglass Antenna:

Measurement Data

Live line:



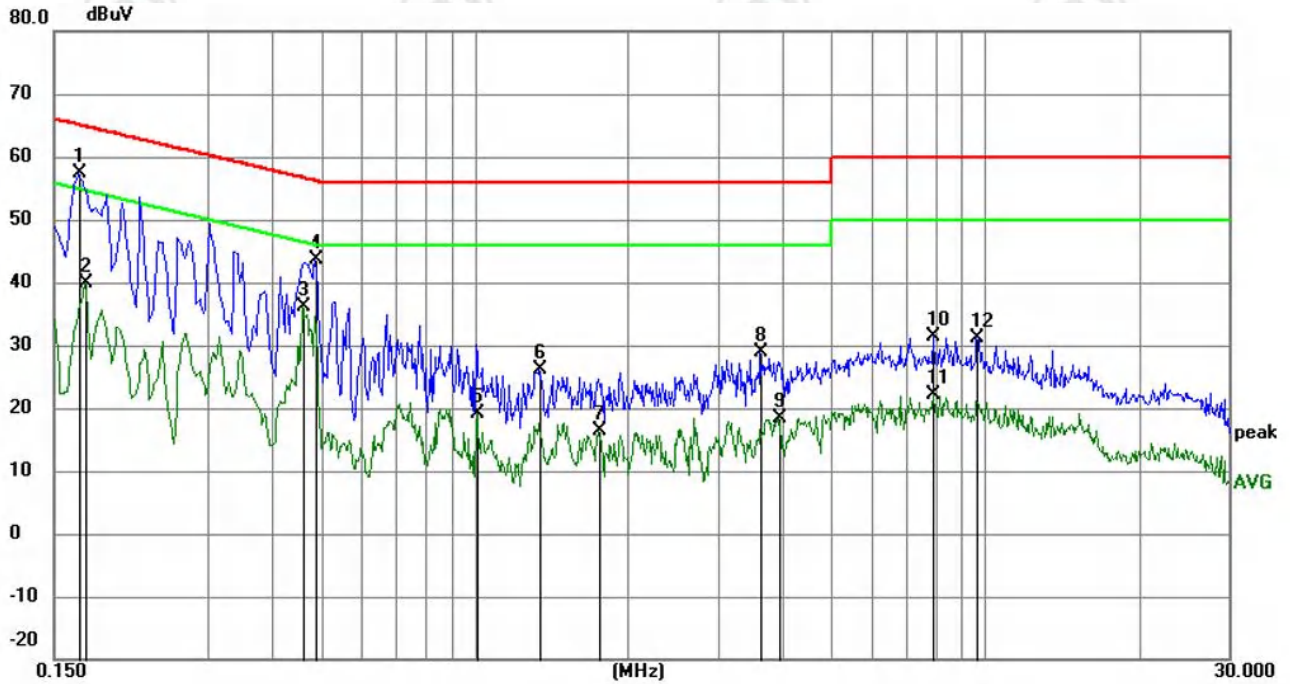
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1995	44.80	10.21	55.01	63.63	-8.62	peak	
2		0.2670	17.68	10.16	27.84	51.21	-23.37	AVG	
3		0.4740	16.87	10.08	26.95	46.44	-19.49	AVG	
4		0.7260	29.57	10.14	39.71	56.00	-16.29	peak	
5		1.7160	9.47	10.17	19.64	46.00	-26.36	AVG	
6		1.7205	18.13	10.17	28.30	56.00	-27.70	peak	
7		2.7105	18.11	10.14	28.25	56.00	-27.75	peak	
8		4.3800	8.54	10.08	18.62	46.00	-27.38	AVG	
9		7.7550	8.14	10.01	18.15	50.00	-31.85	AVG	
10		10.3830	16.65	9.94	26.59	60.00	-33.41	peak	
11		15.3735	7.93	9.86	17.79	50.00	-32.21	AVG	
12		21.8715	14.65	9.80	24.45	60.00	-35.55	peak	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Fiberglass Antenna:

Neutral line:

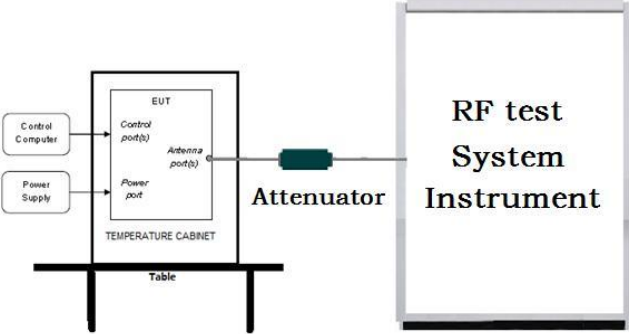


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	47.02	10.26	57.28	65.06	-7.78	QP	
2		0.1725	29.63	10.25	39.88	54.84	-14.96	AVG	
3		0.4605	25.98	10.08	36.06	46.68	-10.62	AVG	
4		0.4875	33.51	10.08	43.59	56.21	-12.62	QP	
5		1.0140	8.93	10.18	19.11	46.00	-26.89	AVG	
6		1.3380	15.92	10.18	26.10	56.00	-29.90	QP	
7		1.7475	6.31	10.17	16.48	46.00	-29.52	AVG	
8		3.6240	18.85	10.11	28.96	56.00	-27.04	QP	
9		3.9435	8.33	10.10	18.43	46.00	-27.57	AVG	
10		7.9350	21.30	10.00	31.30	60.00	-28.70	QP	
11		7.9350	12.18	10.00	22.18	50.00	-27.82	AVG	
12		9.6360	21.20	9.96	31.16	60.00	-28.84	QP	

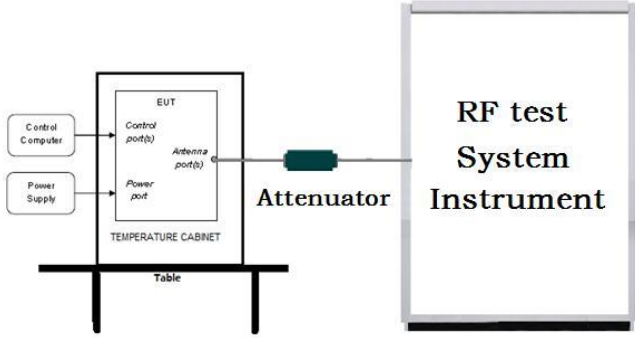
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

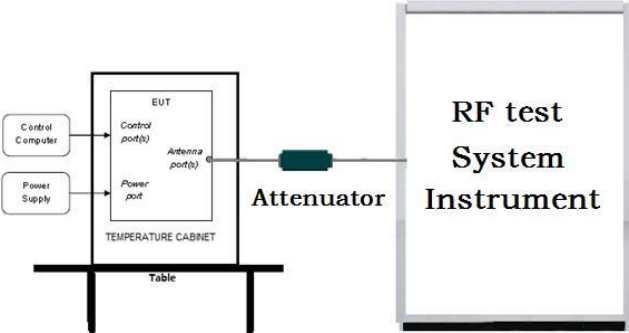
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set the RBW $\geq$ DTS bandwidth. b) Set VBW $\geq 3 \times$ RBW. c) Set span $\geq 3 \times$ RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Limit:	30dBm
Test Results:	Refer to Appendix A

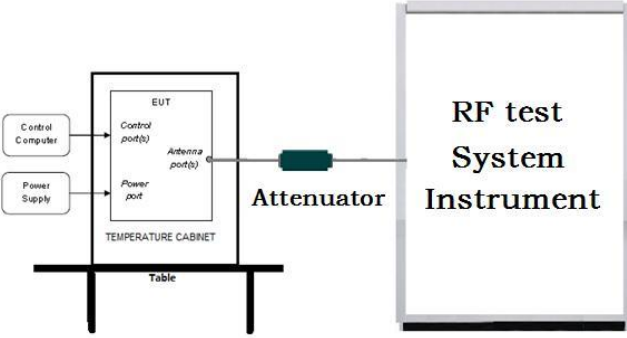
4.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. d) Set the VBW $\geq [3 \times \text{RBW}]$. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	$\leq 8.00 \text{ dBm}/3 \text{ kHz}$
Test Mode:	Refer to clause 3.3
Test Results:	Refer to Appendix A

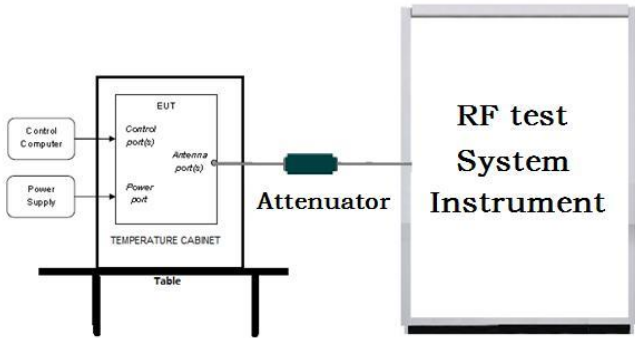
4.5 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247(a)(2)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. Set RBW = 100 kHz. 2. Set the VBW $\geq [3 \times \text{RBW}]$. 3. Detector = peak. 4. Trace mode = max hold. 5. Sweep = auto couple. 6. Allow the trace to stabilize. 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	$\geq 500 \text{ kHz}$
Test Results:	Refer to Appendix A

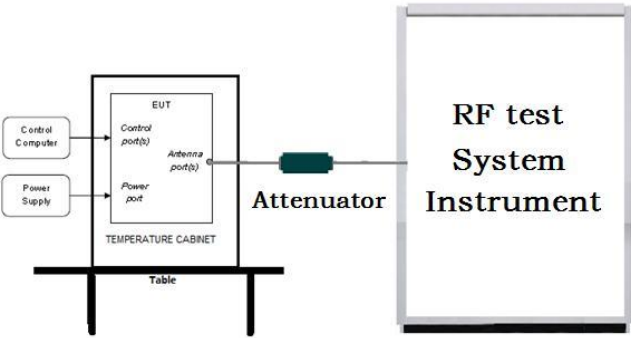
4.6 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247(a)(1)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Limit:	Frequency hopping systems in the 902-928 MHz band: ① If Number of Hopping Channel ≥ 50, 20dB Emission Bandwidth $< 250\text{kHz}$; ② If Number of Hopping Channel ≥ 25, 20dB Emission Bandwidth $\geq 250\text{kHz}$;
Test Results:	Refer to Appendix A

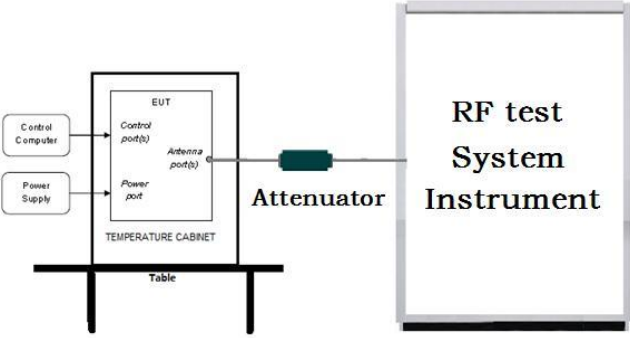
4.7 Carrier Frequency Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Enable the EUT hopping function. 4. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 5. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Test Results:	Refer to Appendix A

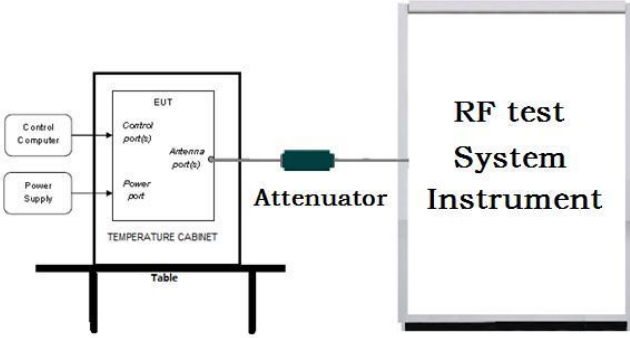
4.8 Number of Hopping Channel

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Enable the EUT hopping function. 4. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW$\geq$RBW; Sweep= auto; Detector function = peak; Trace = max hold. 5. The number of hopping frequency used is defined as the number of total channel. 6. Record the measurement data in report.
Limit:	Frequency hopping systems in the 902-928 MHz band: ① If 20dB Emission Bandwidth < 250kHz, Number of Hopping Channel $\geq$ 50; ② If 20dB Emission Bandwidth $\geq$ 250kHz, Number of Hopping Channel $\geq$ 25;
Test Mode:	Hopping transmitting with all kind of modulation
Test Results:	Refer to Appendix A

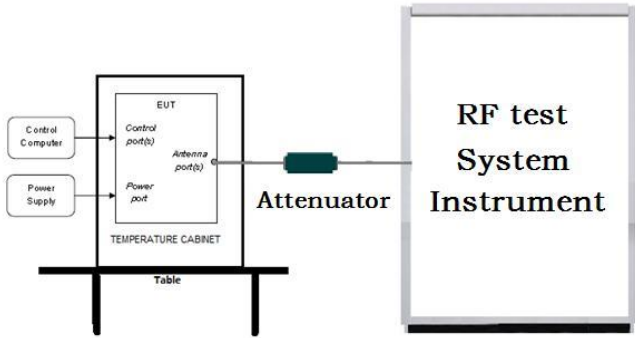
4.9 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Enable the EUT hopping function. 4. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. 5. Measure and record the results in the test report.
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Test Results:	Refer to Appendix A

4.10 Band edge Measurements

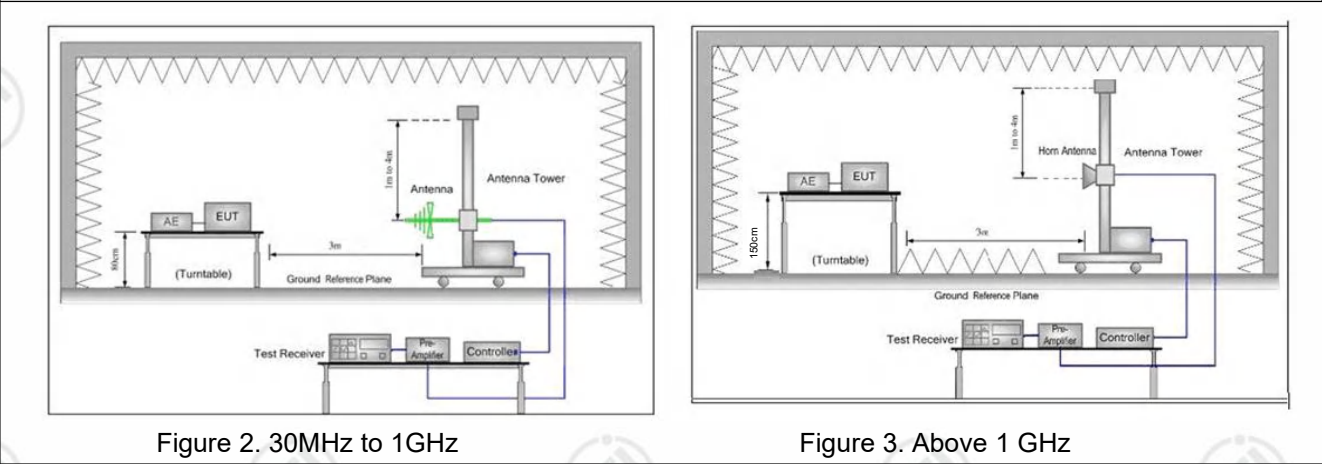
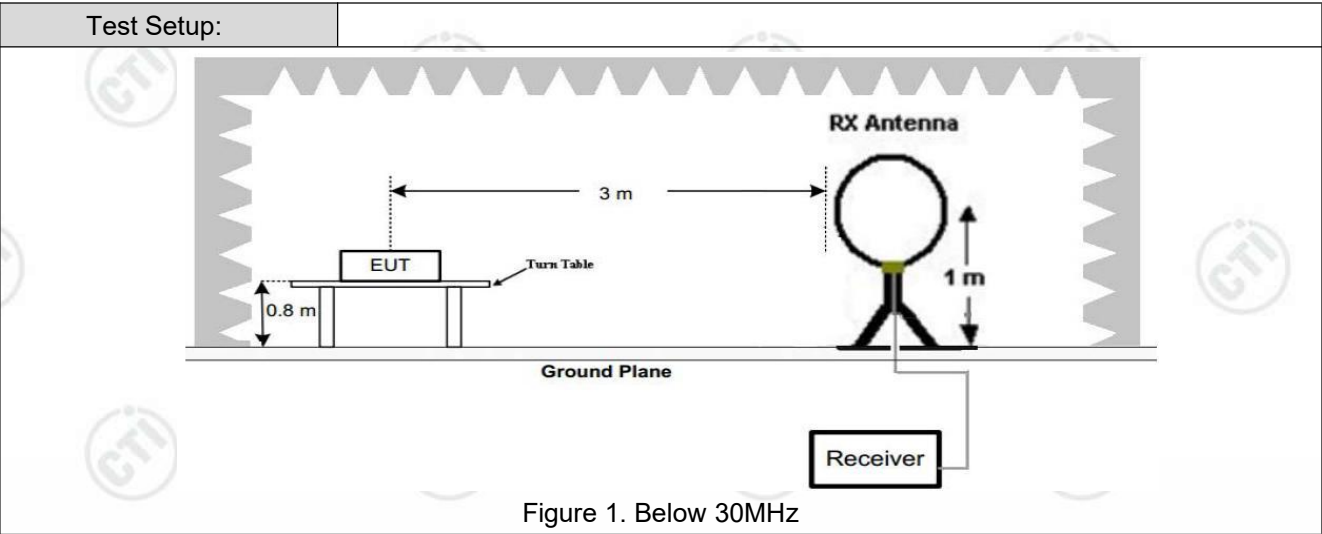
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Set RBW = 100 kHz, VBW = 300 kHz ($\geq$RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 3. Enable hopping function of the EUT and then repeat step 2 and 3. 4. Measure and record the results in the test report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Test Results:	Refer to Appendix A

4.11 Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2020
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Test Results:	Refer to Appendix A

4.12 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2020				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Peak	100 kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



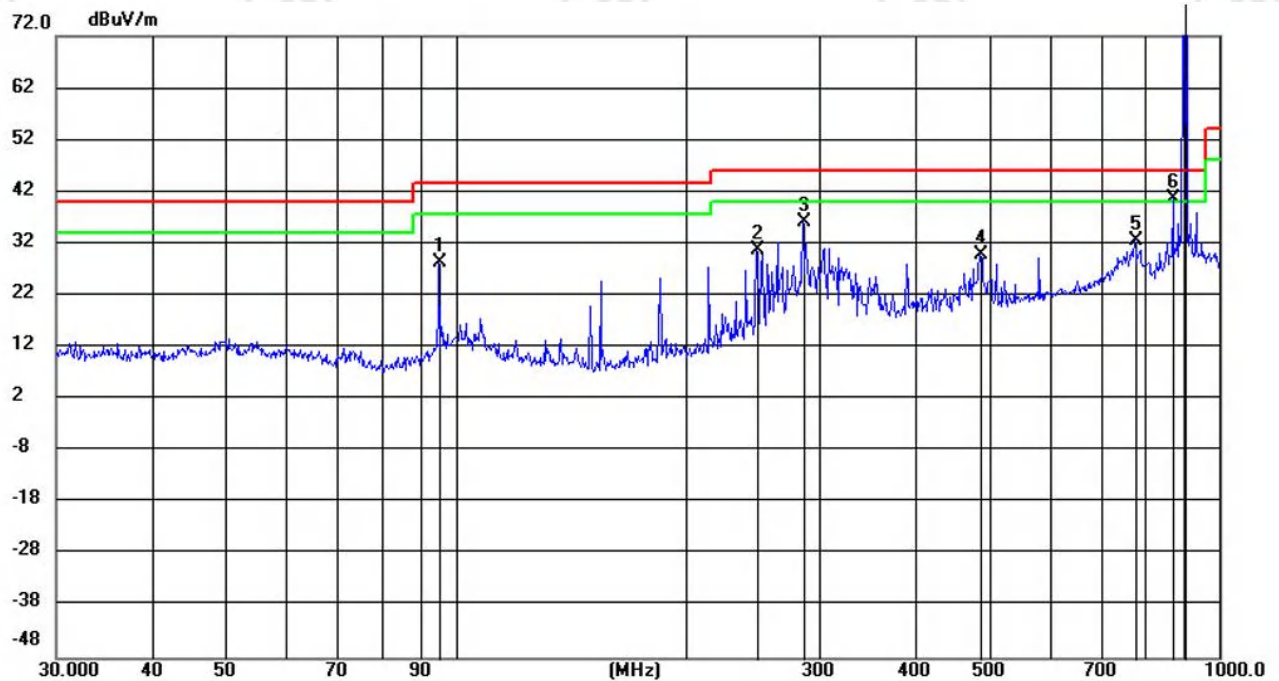
Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode d was recorded in the report.

FPC Antenna:

Horizontal:



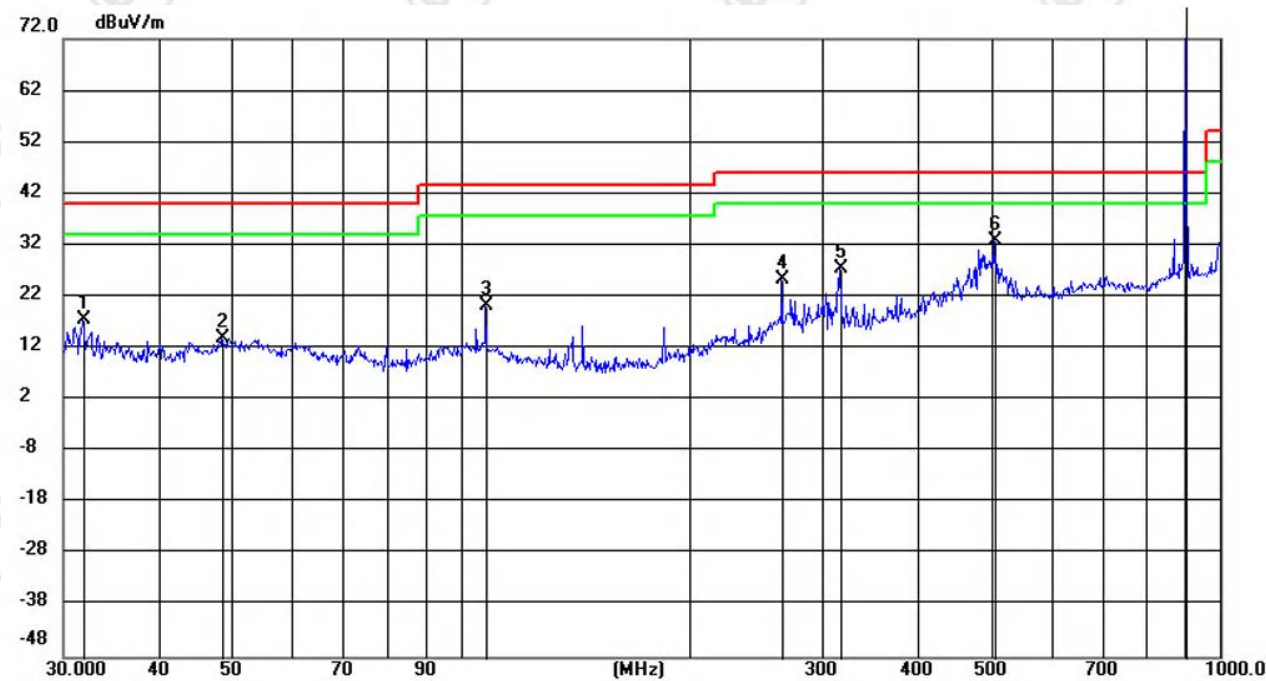
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Detector	Comment
1		95.1930	15.86	12.59	28.45	43.50	-15.05	100	353	QP	
2		248.5519	16.35	14.50	30.85	46.00	-15.15	100	236	QP	
3		285.6770	20.56	15.74	36.30	46.00	-9.70	100	68	QP	
4		486.4614	9.57	20.38	29.95	46.00	-16.05	100	93	QP	
5		774.2940	7.91	24.53	32.44	46.00	-13.56	100	127	QP	
6	!	870.3501	14.37	26.26	40.63	46.00	-5.37	100	337	QP	
7	*	902.5178	78.89	26.98	105.87	46.00	59.87	100	93	peak	

Remark:

1. Margin=Measurement(Level)-Limit.
2. Measurement(Level)=Reading Level+Correct Factor.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

FPC Antenna:

Vertical:

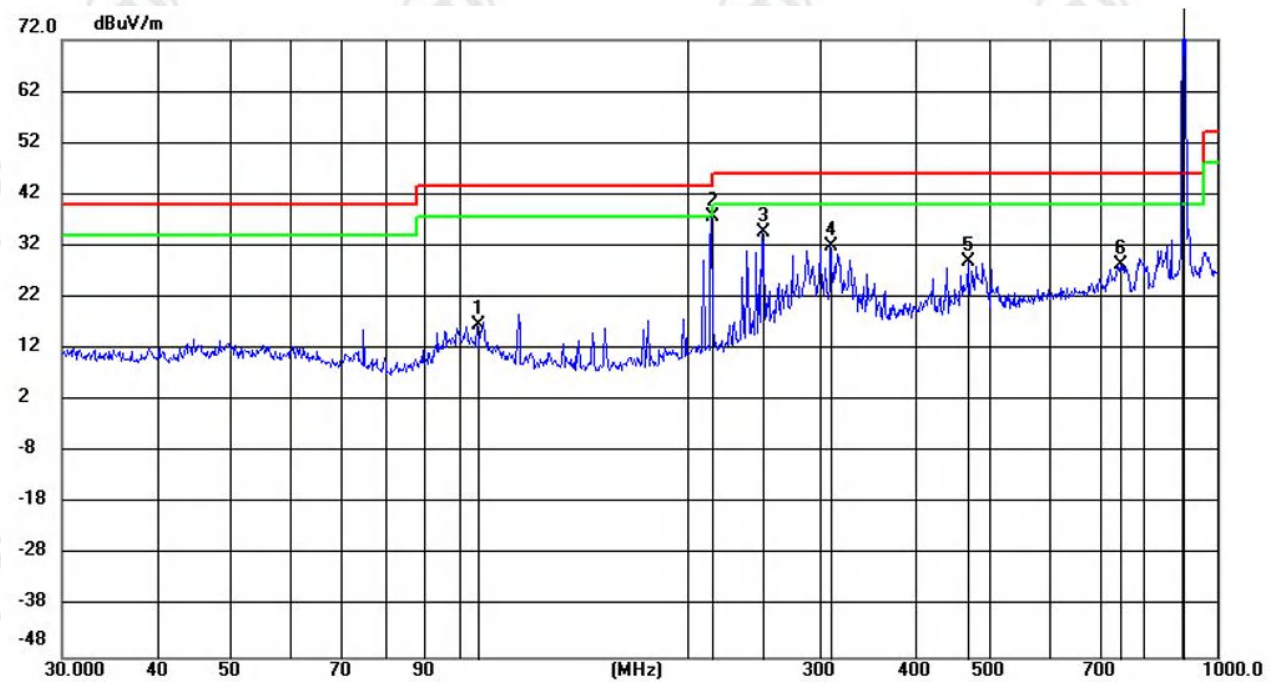


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.9378	4.82	12.61	17.43	40.00	-22.57	100	181	
2		48.6463	-0.61	14.45	13.84	40.00	-26.16	100	89	
3		108.0013	6.31	13.98	20.29	43.50	-23.21	100	348	
4		265.5826	10.14	15.16	25.30	46.00	-20.70	100	256	
5		315.7575	10.65	16.84	27.49	46.00	-18.51	100	239	
6		504.9717	12.26	20.69	32.95	46.00	-13.05	100	105	
7	*	902.3596	76.53	26.98	103.51	46.00	57.51	peak	164	

Remark:

1. $\text{Margin} = \text{Measurement (Level)} - \text{Limit}$.
2. $\text{Measurement (Level)} = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Spring Antenna:
Horizontal:

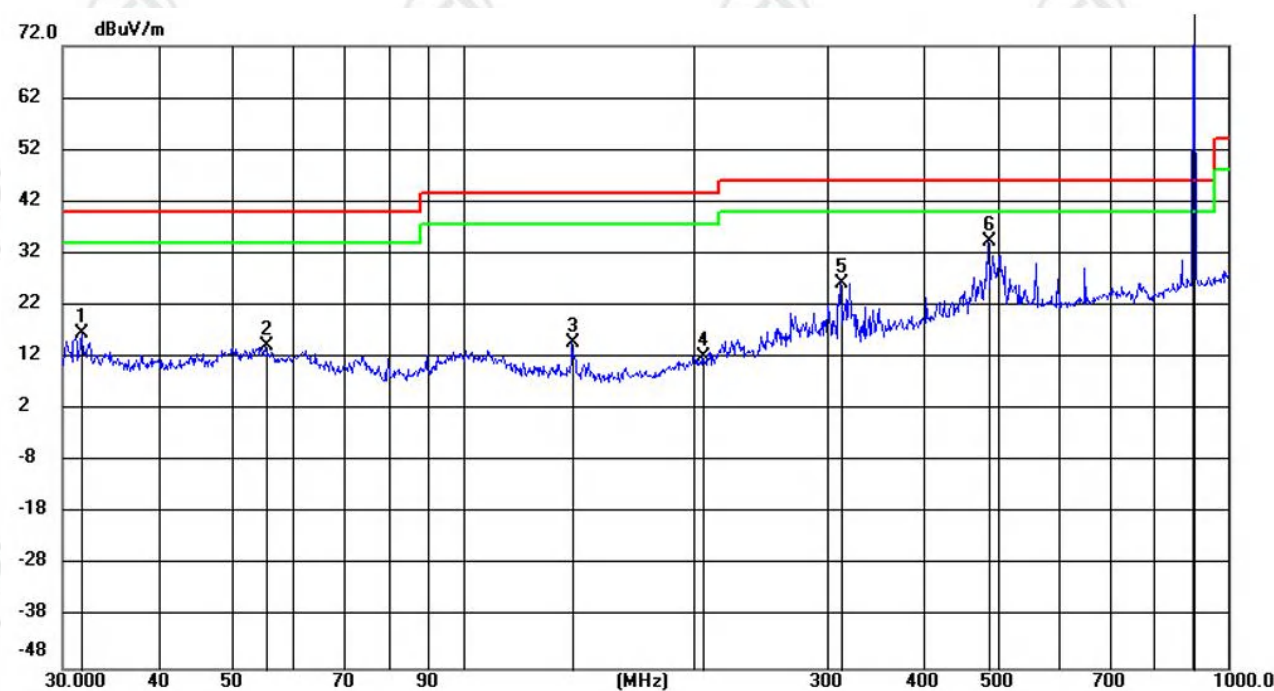


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		105.6600	2.80	13.82	16.62	43.50	-26.88	QP	100	354	
2	!	215.4566	24.71	13.07	37.78	43.50	-5.72	QP	100	228	
3		251.9743	19.87	14.66	34.53	46.00	-11.47	QP	100	237	
4		309.7803	15.45	16.64	32.09	46.00	-13.91	QP	100	262	
5		469.1228	8.73	20.27	29.00	46.00	-17.00	QP	100	127	
6		746.4348	3.98	24.34	28.32	46.00	-17.68	QP	100	67	
7	*	903.3093	78.89	26.99	105.88	46.00	59.88	peak	100	270	

Remark:

1. $\text{Margin} = \text{Measurement}(\text{Level}) - \text{Limit}$.
2. $\text{Measurement}(\text{Level}) = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Spring Antenna:
Vertical:

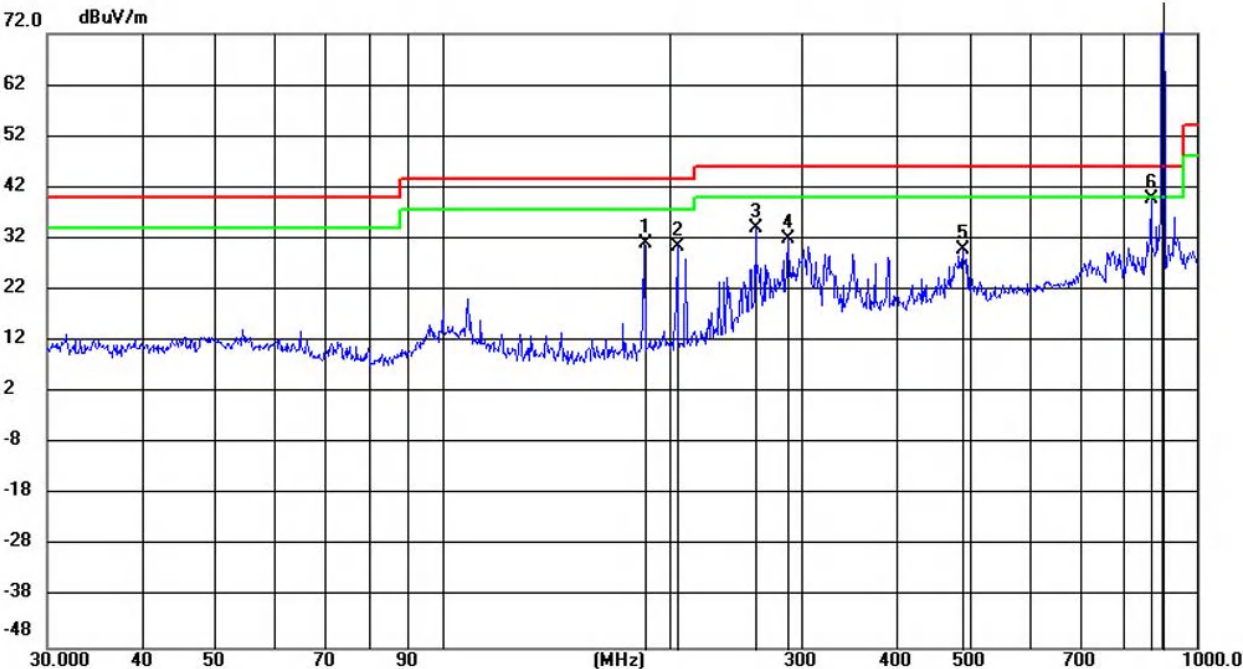


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	
1		31.7981	4.08	12.60	16.68	40.00	-23.32	QP	100	313
2		55.3953	0.18	14.03	14.21	40.00	-25.79	QP	100	39
3		139.2392	4.31	10.41	14.72	43.50	-28.78	QP	100	96
4		205.6751	-0.50	12.78	12.28	43.50	-31.22	QP	100	138
5		311.5779	9.55	16.70	26.25	46.00	-19.75	QP	100	5
6		487.0588	13.85	20.38	34.23	46.00	-11.77	QP	100	39
7	*	903.1510	71.40	26.99	98.39	46.00	52.39	peak	100	55

Remark:

1. $\text{Margin} = \text{Measurement}(\text{Level}) - \text{Limit}$.
2. $\text{Measurement}(\text{Level}) = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Fiberglass Antenna:
Horizontal:



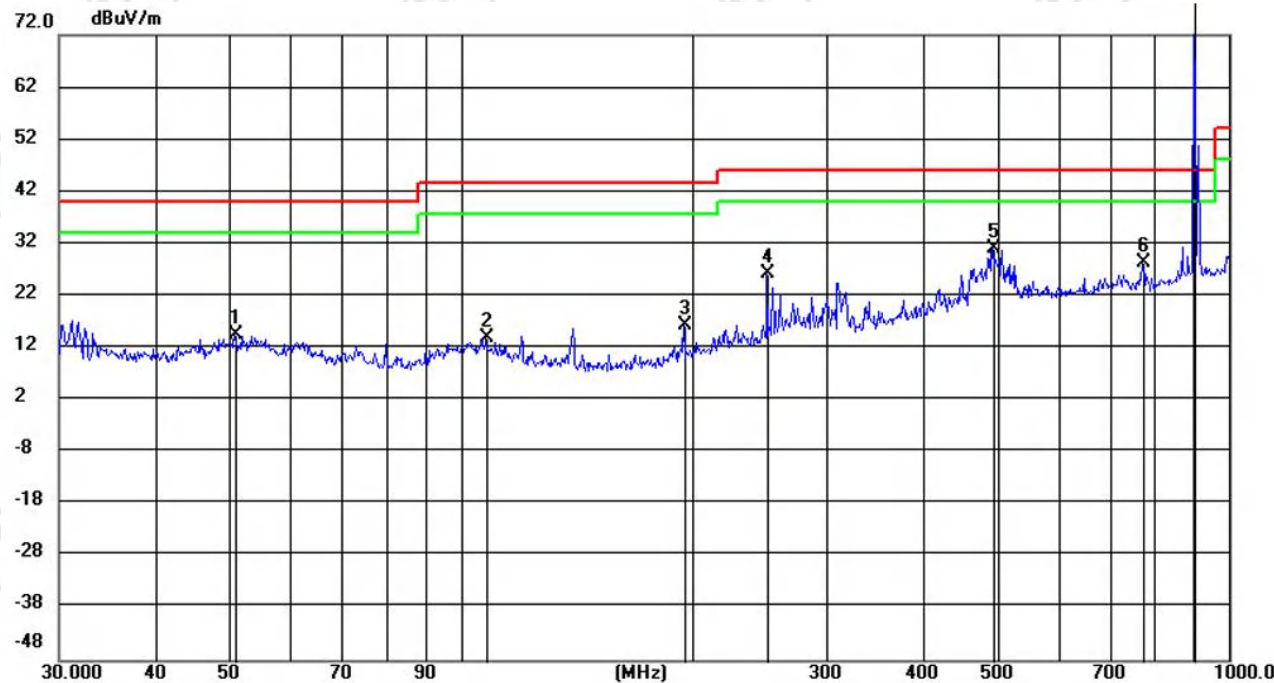
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1		185.3327	19.14	11.82	30.96	43.50	-12.54	QP	100	203
2		205.3146	17.80	12.77	30.57	43.50	-12.93	QP	100	36
3		260.8752	18.92	15.05	33.97	46.00	-12.03	QP	100	228
4		287.9904	16.27	15.82	32.09	46.00	-13.91	QP	100	228
5		490.6586	9.33	20.44	29.77	46.00	-16.23	QP	100	87
6		870.9607	13.58	26.27	39.85	46.00	-6.15	QP	100	287
7	*	903.1510	78.89	26.99	105.88	46.00	59.88	peak	100	78

Remark:

1. $\text{Margin} = \text{Measurement}(\text{Level}) - \text{Limit}$.
2. $\text{Measurement}(\text{Level}) = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Fiberglass Antenna:

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		50.8706	-0.02	14.56	14.54	40.00	-25.46	100	39	
2		108.0581	0.00	13.98	13.98	43.50	-29.52	100	240	
3		195.2734	3.76	12.58	16.34	43.50	-27.16	100	197	
4		250.5646	11.72	14.59	26.31	46.00	-19.69	100	47	
5		492.9004	10.57	20.48	31.05	46.00	-14.95	100	47	
6		772.1251	3.83	24.51	28.34	46.00	-17.66	100	214	
7	*	903.1510	60.79	26.99	87.78	46.00	41.78	peak	14	

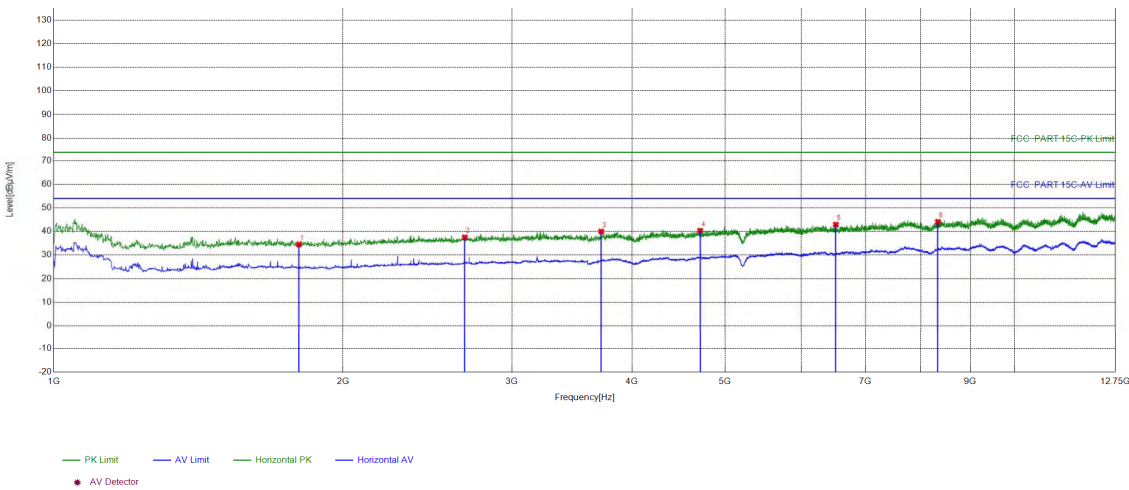
Remark:

1. $\text{Margin} = \text{Measurement (Level)} - \text{Limit}$.
2. $\text{Measurement (Level)} = \text{Reading Level} + \text{Correct Factor}$.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

Radiated Spurious Emission above 1GHz:

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

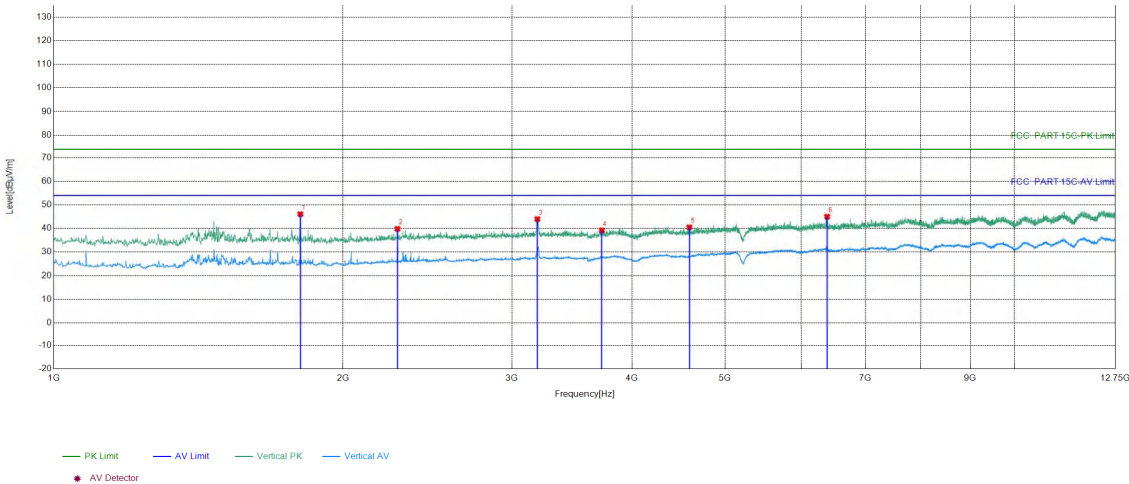
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1800	-20.12	54.61	34.49	74.00	39.51	PASS	Horizontal	PK
2	2679.2429	-16.65	54.14	37.49	74.00	36.51	PASS	Horizontal	PK
3	3715.6966	-13.11	53.08	39.97	74.00	34.03	PASS	Horizontal	PK
4	4711.0211	-9.08	49.40	40.32	74.00	33.68	PASS	Horizontal	PK
5	6521.8772	-4.53	47.46	42.93	74.00	31.07	PASS	Horizontal	PK
6	8330.383	-1.22	45.32	44.10	74.00	29.90	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

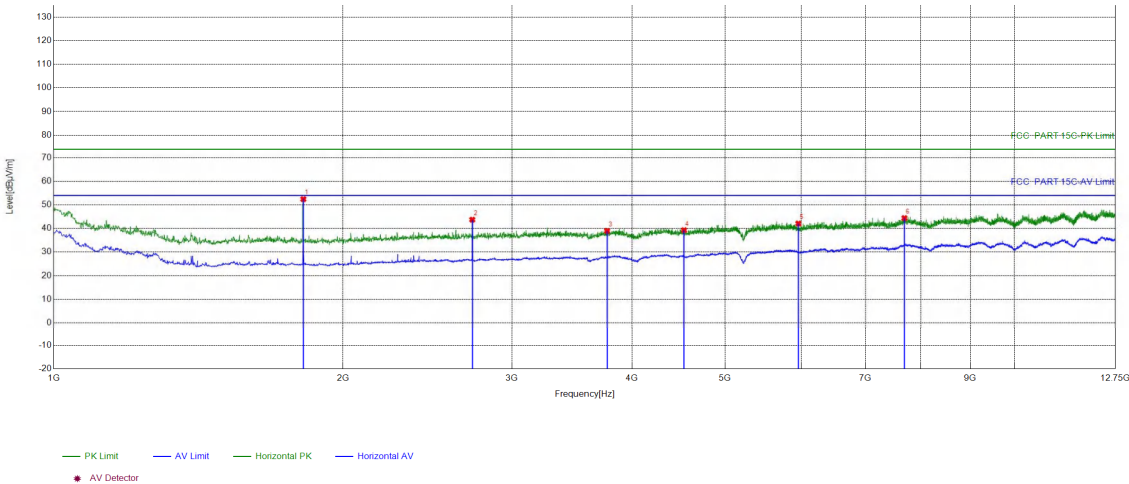
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1806.1306	-20.11	66.19	46.08	74.00	27.92	PASS	Vertical	PK
2	2279.703	-18.29	58.11	39.82	74.00	34.18	PASS	Vertical	PK
3	3188.0688	-14.85	58.83	43.98	74.00	30.02	PASS	Vertical	PK
4	3721.5722	-13.11	52.30	39.19	74.00	34.81	PASS	Vertical	PK
5	4589.984	-9.55	50.06	40.51	74.00	33.49	PASS	Vertical	PK
6	6386.7387	-4.65	49.65	45.00	74.00	29.00	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

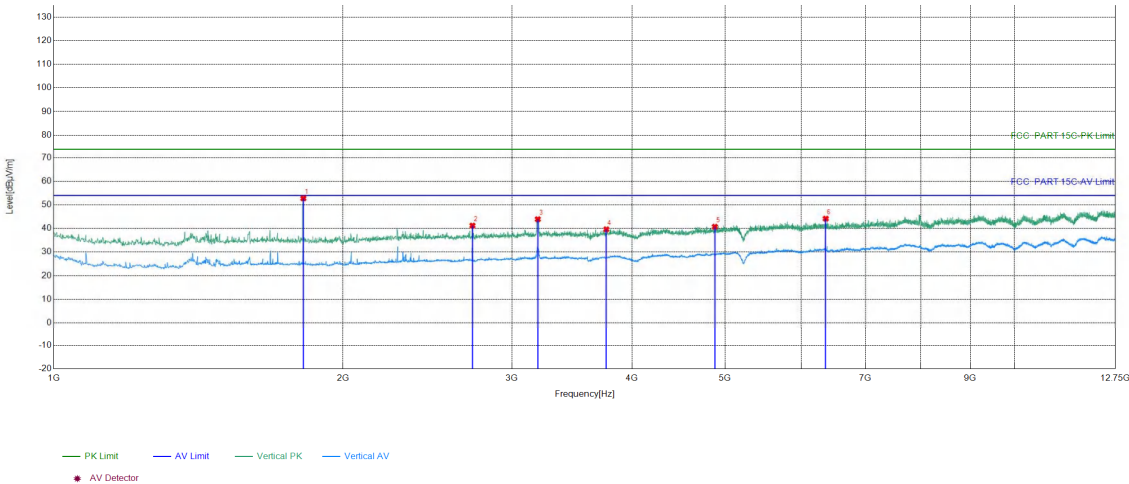
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1819.0569	-20.09	72.52	52.43	74.00	21.57	PASS	Horizontal	PK
2	2727.4227	-16.44	60.15	43.71	74.00	30.29	PASS	Horizontal	PK
3	3768.5769	-13.01	51.95	38.94	74.00	35.06	PASS	Horizontal	PK
4	4532.4032	-9.76	49.05	39.29	74.00	34.71	PASS	Horizontal	PK
5	5961.3461	-5.64	47.73	42.09	74.00	31.91	PASS	Horizontal	PK
6	7687.5938	-1.89	46.27	44.38	74.00	29.62	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

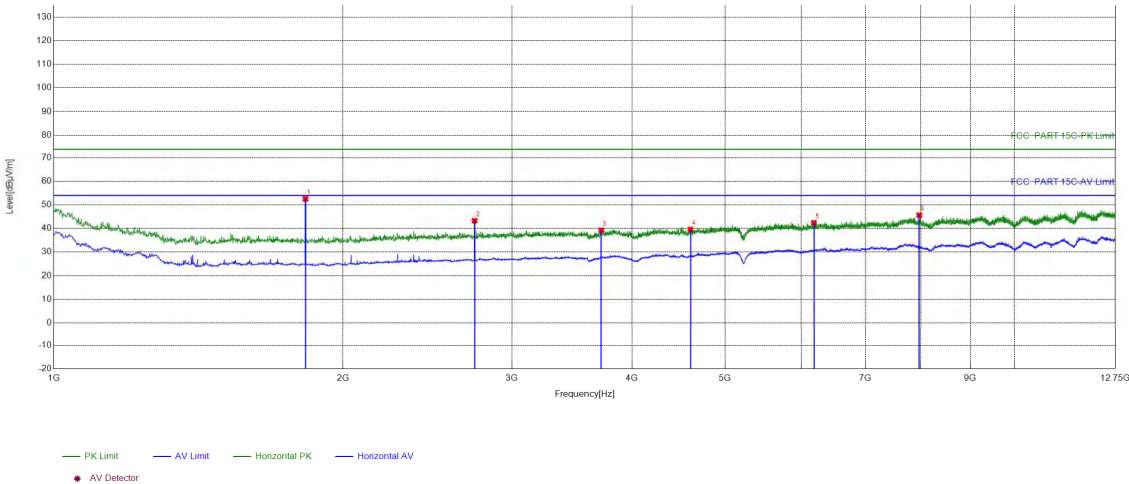
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1819.0569	-20.09	72.85	52.76	74.00	21.24	PASS	Vertical	PK
2	2728.5979	-16.43	57.63	41.20	74.00	32.80	PASS	Vertical	PK
3	3191.5942	-14.82	58.74	43.92	74.00	30.08	PASS	Vertical	PK
4	3761.5262	-13.06	52.69	39.63	74.00	34.37	PASS	Vertical	PK
5	4879.0629	-8.58	49.31	40.73	74.00	33.27	PASS	Vertical	PK
6	6365.5866	-4.68	48.83	44.15	74.00	29.85	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

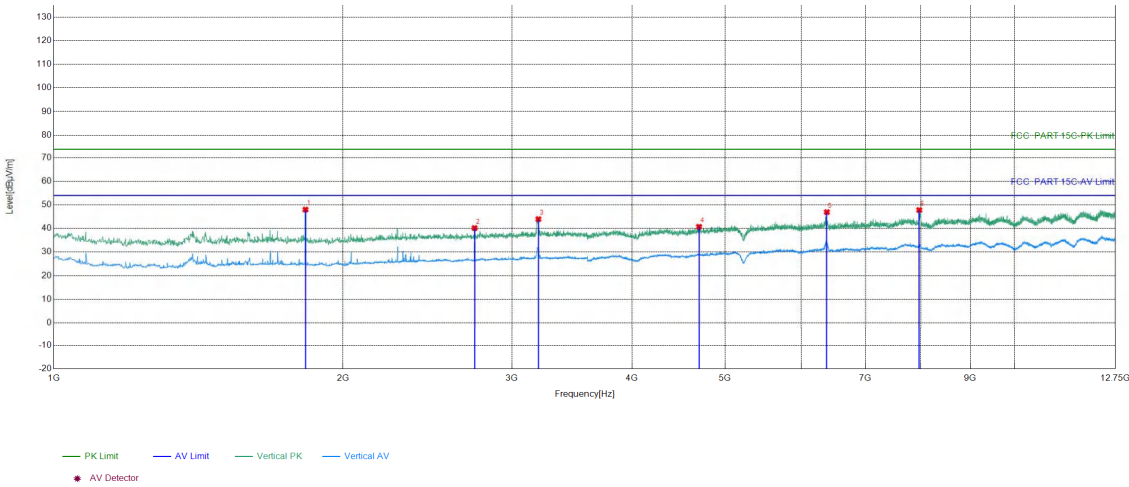
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1828.4578	-20.07	72.62	52.55	74.00	21.45	PASS	Horizontal	PK
2	2742.6993	-16.36	59.65	43.29	74.00	30.71	PASS	Horizontal	PK
3	3716.8717	-13.11	52.32	39.21	74.00	34.79	PASS	Horizontal	PK
4	4602.9103	-9.51	49.10	39.59	74.00	34.41	PASS	Horizontal	PK
5	6188.1438	-4.94	47.34	42.40	74.00	31.60	PASS	Horizontal	PK
6	7967.2717	-1.45	47.10	45.65	74.00	28.35	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

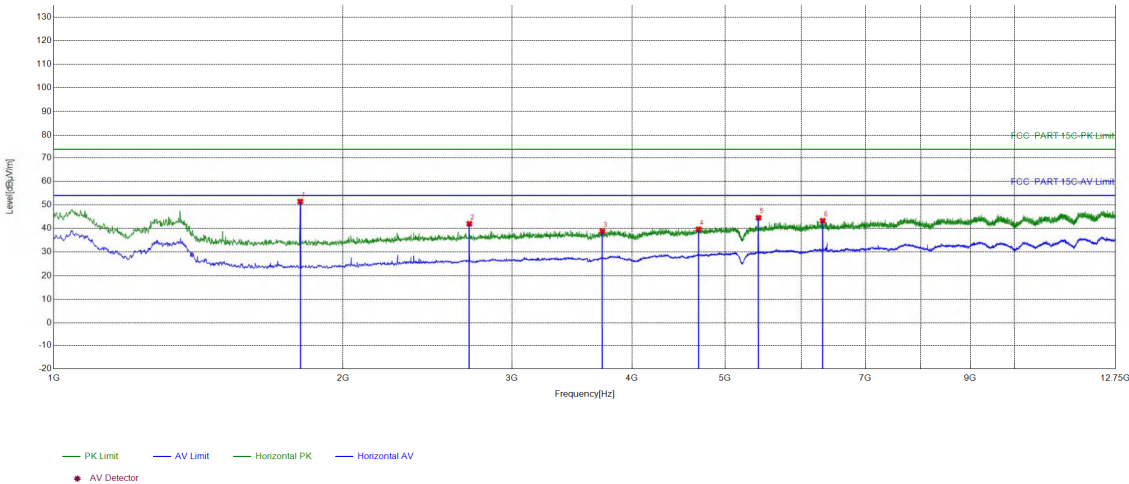
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1828.4578	-20.07	68.07	48.00	74.00	26.00	PASS	Vertical	PK
2	2742.6993	-16.36	56.52	40.16	74.00	33.84	PASS	Vertical	PK
3	3196.2946	-14.78	58.74	43.96	74.00	30.04	PASS	Vertical	PK
4	4698.0948	-9.14	49.85	40.71	74.00	33.29	PASS	Vertical	PK
5	6382.0382	-4.66	51.58	46.92	74.00	27.08	PASS	Vertical	PK
6	7966.0966	-1.45	49.27	47.82	74.00	26.18	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

Test Graph

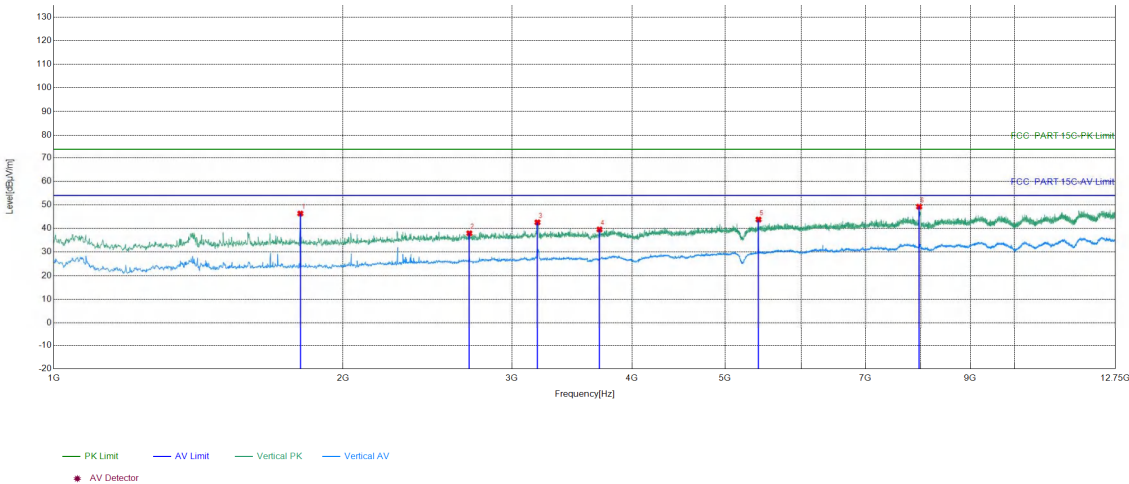


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1806.1306	-20.11	71.56	51.45	74.00	22.55	PASS	Horizontal	PK
2	2708.6209	-16.53	58.51	41.98	74.00	32.02	PASS	Horizontal	PK
3	3726.2726	-13.12	51.88	38.76	74.00	35.24	PASS	Horizontal	PK
4	4691.0441	-9.18	48.81	39.63	74.00	34.37	PASS	Horizontal	PK
5	5418.4418	-6.39	50.93	44.54	74.00	29.46	PASS	Horizontal	PK
6	6319.757	-4.98	48.24	43.26	74.00	30.74	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

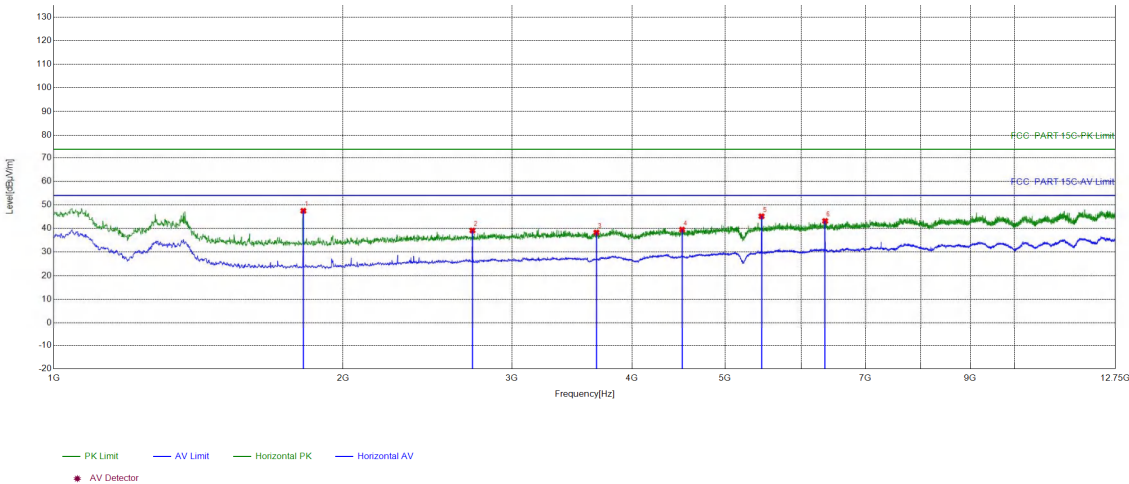
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1806.1306	-20.11	66.44	46.33	74.00	27.67	PASS	Vertical	PK
2	2708.6209	-16.53	54.48	37.95	74.00	36.05	PASS	Vertical	PK
3	3189.2439	-14.84	57.43	42.59	74.00	31.41	PASS	Vertical	PK
4	3700.42	-13.09	52.66	39.57	74.00	34.43	PASS	Vertical	PK
5	5418.4418	-6.39	50.17	43.78	74.00	30.22	PASS	Vertical	PK
6	7963.7464	-1.46	50.68	49.22	74.00	24.78	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

Test Graph

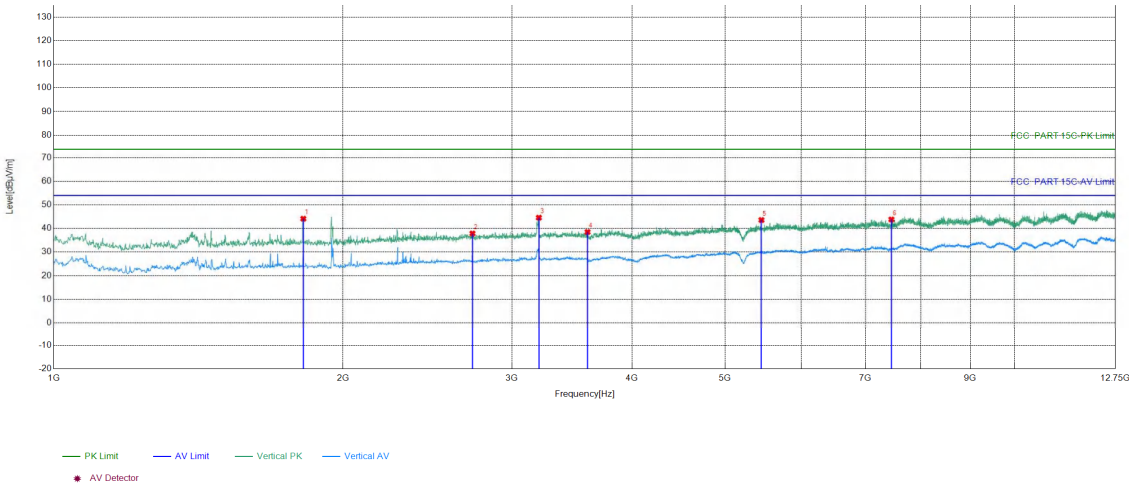


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1819.0569	-20.09	67.57	47.48	74.00	26.52	PASS	Horizontal	PK
2	2728.5979	-16.43	55.56	39.13	74.00	34.87	PASS	Horizontal	PK
3	3673.3923	-13.26	51.53	38.27	74.00	35.73	PASS	Horizontal	PK
4	4511.2511	-9.79	49.30	39.51	74.00	34.49	PASS	Horizontal	PK
5	5457.2207	-6.18	51.35	45.17	74.00	28.83	PASS	Horizontal	PK
6	6357.3607	-4.68	47.84	43.16	74.00	30.84	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

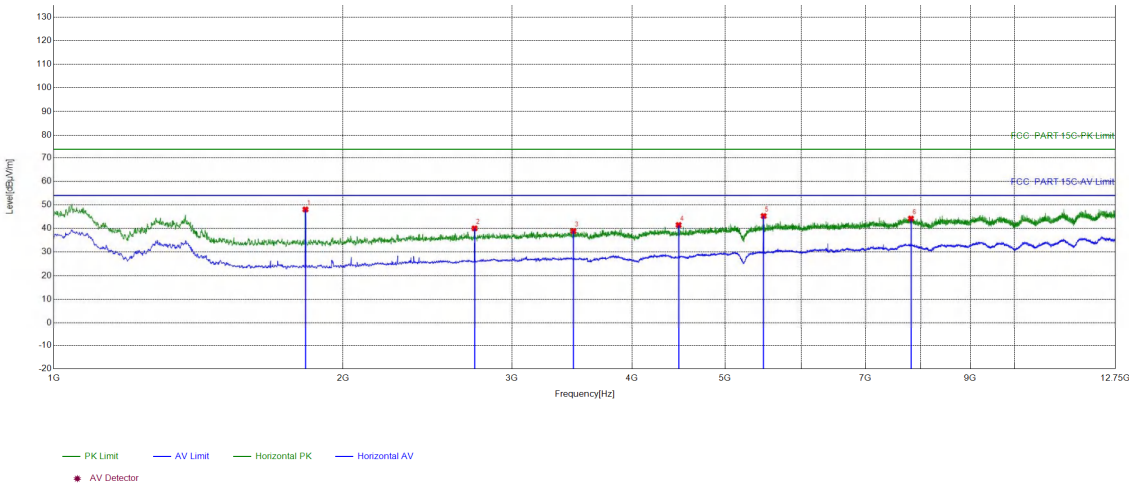
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1819.0569	-20.09	64.21	44.12	74.00	29.88	PASS	Vertical	PK
2	2728.5979	-16.43	54.29	37.86	74.00	36.14	PASS	Vertical	PK
3	3199.82	-14.76	59.33	44.57	74.00	29.43	PASS	Vertical	PK
4	3595.8346	-13.65	52.14	38.49	74.00	35.51	PASS	Vertical	PK
5	5456.0456	-6.16	49.74	43.58	74.00	30.42	PASS	Vertical	PK
6	7451.3951	-2.62	46.42	43.80	74.00	30.20	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

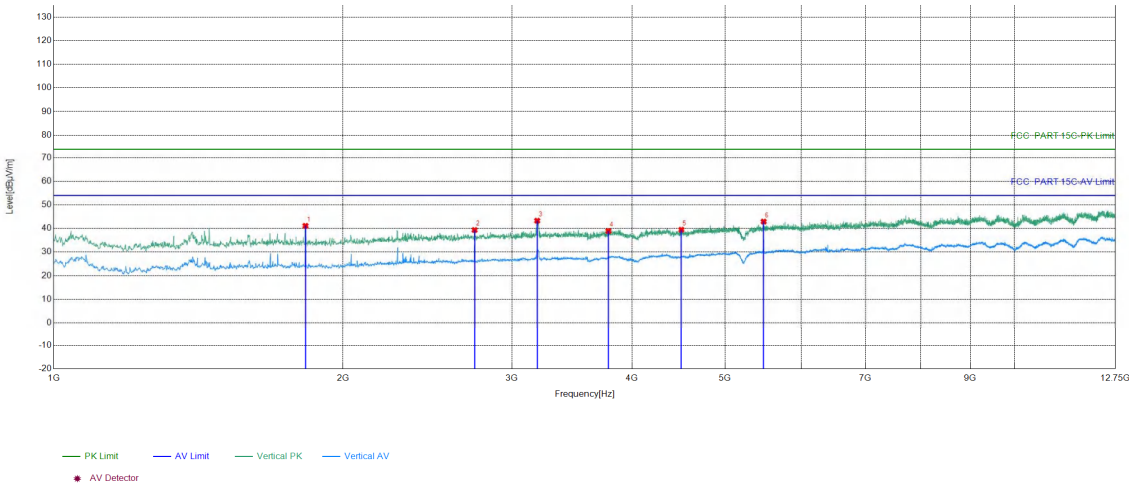
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1828.4578	-20.07	68.13	48.06	74.00	25.94	PASS	Horizontal	PK
2	2742.6993	-16.36	56.41	40.05	74.00	33.95	PASS	Horizontal	PK
3	3475.9726	-14.26	53.14	38.88	74.00	35.12	PASS	Horizontal	PK
4	4473.6474	-10.00	51.48	41.48	74.00	32.52	PASS	Horizontal	PK
5	5485.4235	-6.41	51.71	45.30	74.00	28.70	PASS	Horizontal	PK
6	7808.6309	-2.23	46.43	44.20	74.00	29.80	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	FPC Antenna		

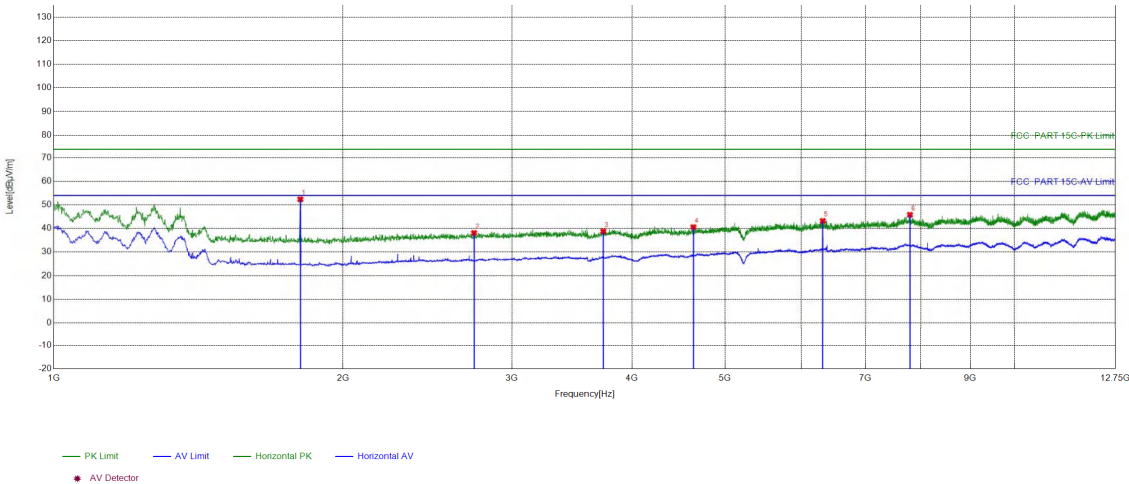
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1828.4578	-20.07	61.16	41.09	74.00	32.91	PASS	Vertical	PK
2	2742.6993	-16.36	55.71	39.35	74.00	34.65	PASS	Vertical	PK
3	3186.8937	-14.85	58.12	43.27	74.00	30.73	PASS	Vertical	PK
4	3780.328	-12.92	51.83	38.91	74.00	35.09	PASS	Vertical	PK
5	4503.0253	-9.81	49.28	39.47	74.00	34.53	PASS	Vertical	PK
6	5485.4235	-6.41	49.32	42.91	74.00	31.09	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

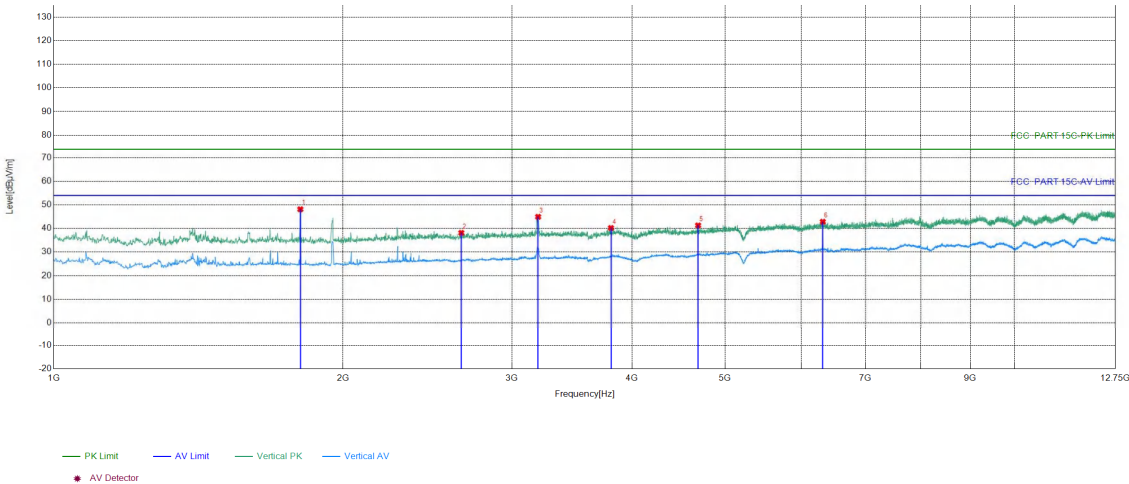
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1806.1306	-20.11	72.47	52.36	74.00	21.64	PASS	Horizontal	PK
2	2739.1739	-16.38	54.47	38.09	74.00	35.91	PASS	Horizontal	PK
3	3734.4984	-13.13	51.93	38.80	74.00	35.20	PASS	Horizontal	PK
4	4634.6385	-9.43	50.01	40.58	74.00	33.42	PASS	Horizontal	PK
5	6320.9321	-4.97	48.18	43.21	74.00	30.79	PASS	Horizontal	PK
6	7789.829	-2.22	48.02	45.80	74.00	28.20	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	903Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

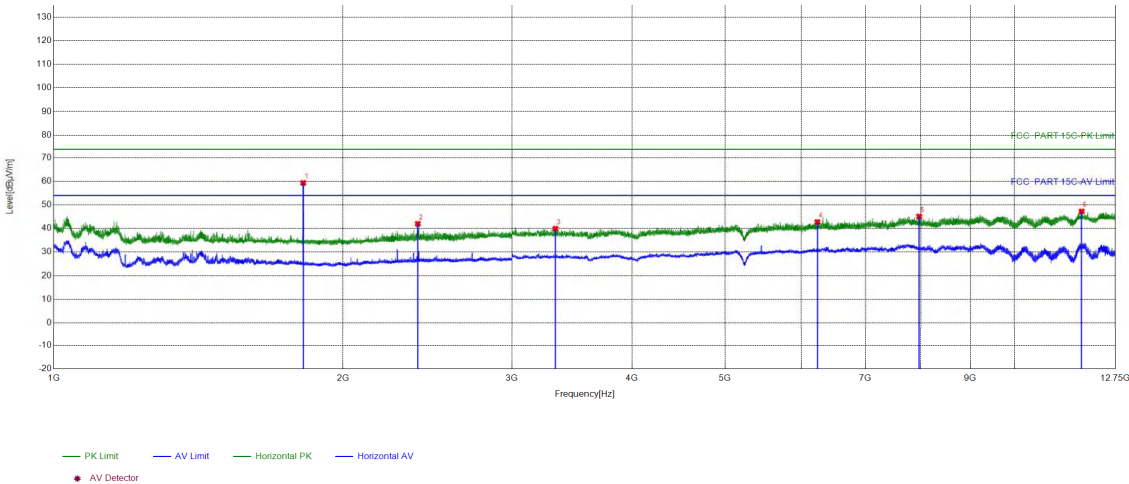
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1806.1306	-20.11	68.24	48.13	74.00	25.87	PASS	Vertical	PK
2	2656.9157	-16.74	54.89	38.15	74.00	35.85	PASS	Vertical	PK
3	3193.9444	-14.81	59.75	44.94	74.00	29.06	PASS	Vertical	PK
4	3803.8304	-12.74	52.93	40.19	74.00	33.81	PASS	Vertical	PK
5	4687.5188	-9.19	50.50	41.31	74.00	32.69	PASS	Vertical	PK
6	6320.9321	-4.97	47.83	42.86	74.00	31.14	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

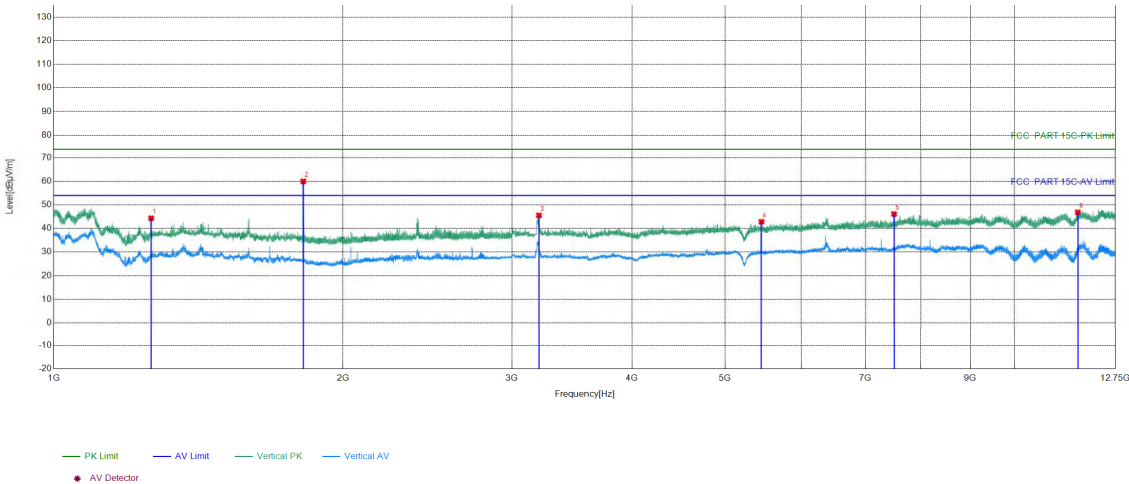
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1818.4546	-20.09	79.39	59.30	74.00	14.70	PASS	Horizontal	PK
2	2393.8263	-17.89	59.85	41.96	74.00	32.04	PASS	Horizontal	PK
3	3329.572	-14.04	53.94	39.90	74.00	34.10	PASS	Horizontal	PK
4	6239.816	-4.74	47.49	42.75	74.00	31.25	PASS	Horizontal	PK
5	7965.031	-1.38	46.48	45.10	74.00	28.90	PASS	Horizontal	PK
6	11758.6839	2.41	44.83	47.24	74.00	26.76	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	909.4Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

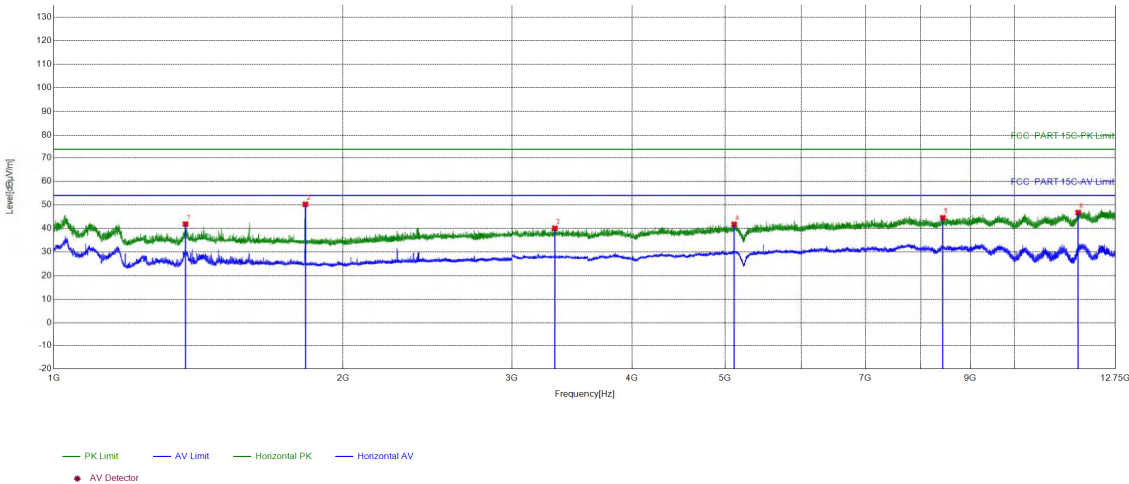
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1262.9509	-22.29	66.61	44.32	74.00	29.68	PASS	Vertical	PK
2	1818.5879	-20.09	80.06	59.97	74.00	14.03	PASS	Vertical	PK
3	3200.2133	-14.46	60.00	45.54	74.00	28.46	PASS	Vertical	PK
4	5456.5138	-6.44	49.26	42.82	74.00	31.18	PASS	Vertical	PK
5	7498.9499	-2.32	48.43	46.11	74.00	27.89	PASS	Vertical	PK
6	11652.0768	2.42	44.41	46.83	74.00	27.17	PASS	Vertical	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

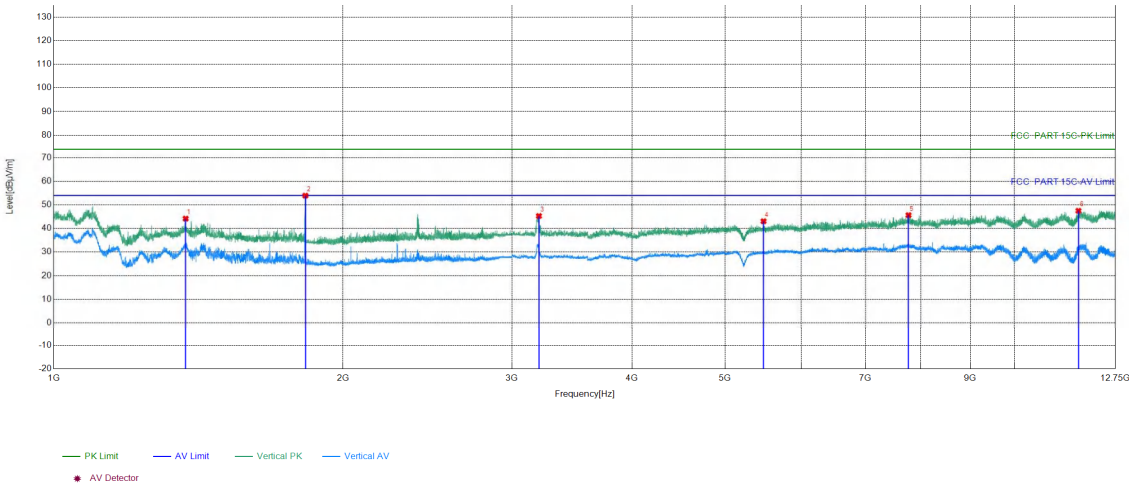
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1371.3581	-21.87	63.72	41.85	74.00	32.15	PASS	Horizontal	PK
2	1828.0552	-20.07	70.32	50.25	74.00	23.75	PASS	Horizontal	PK
3	3324.3716	-14.06	54.15	40.09	74.00	33.91	PASS	Horizontal	PK
4	5111.3408	-7.53	49.29	41.76	74.00	32.24	PASS	Horizontal	PK
5	8432.4122	-0.64	45.19	44.55	74.00	29.45	PASS	Horizontal	PK
6	11661.8275	2.47	44.28	46.75	74.00	27.25	PASS	Horizontal	PK

Test_Mode	LoRa(DTS)	Test_Frequency	914.2Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Fiberglass Antenna		

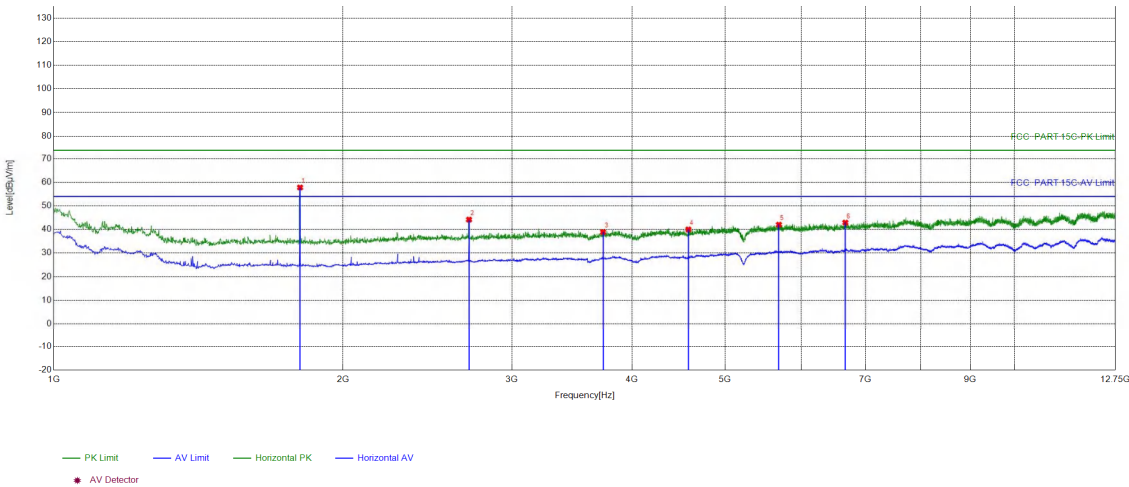
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1371.7581	-21.86	66.02	44.16	74.00	29.84	PASS	Vertical	PK
2	1828.0552	-20.07	73.99	53.92	74.00	20.08	PASS	Vertical	PK
3	3200.2133	-14.46	59.75	45.29	74.00	28.71	PASS	Vertical	PK
4	5483.8156	-6.48	49.54	43.06	74.00	30.94	PASS	Vertical	PK
5	7764.1676	-1.62	47.25	45.63	74.00	28.37	PASS	Vertical	PK
6	11668.9779	2.50	45.00	47.50	74.00	26.50	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

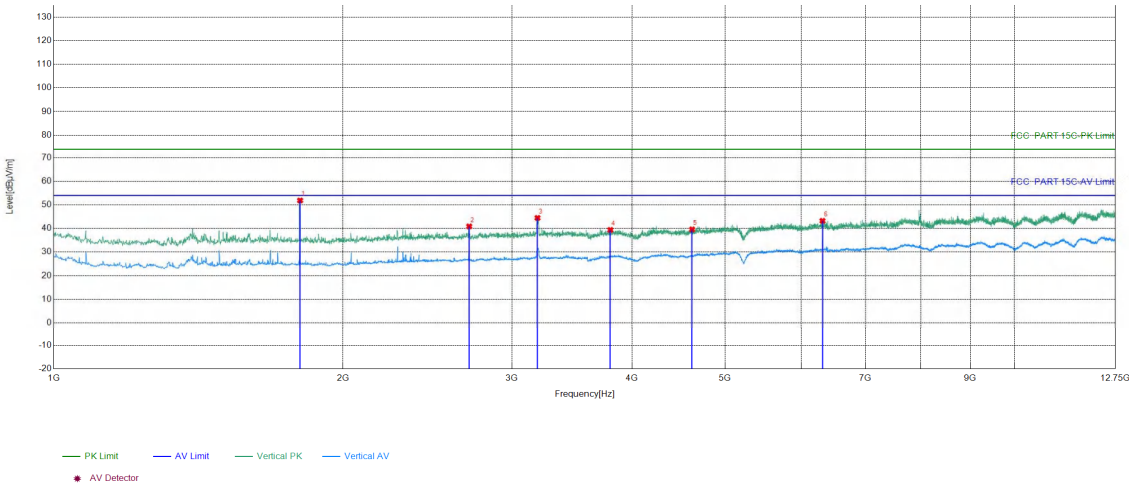
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1804.9555	-20.11	77.90	57.79	74.00	16.21	PASS	Horizontal	PK
2	2706.2706	-16.54	60.72	44.18	74.00	29.82	PASS	Horizontal	PK
3	3732.1482	-13.13	52.04	38.91	74.00	35.09	PASS	Horizontal	PK
4	4579.4079	-9.60	49.61	40.01	74.00	33.99	PASS	Horizontal	PK
5	5689.894	-6.12	48.14	42.02	74.00	31.98	PASS	Horizontal	PK
6	6672.2922	-3.86	46.75	42.89	74.00	31.11	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

Test Graph

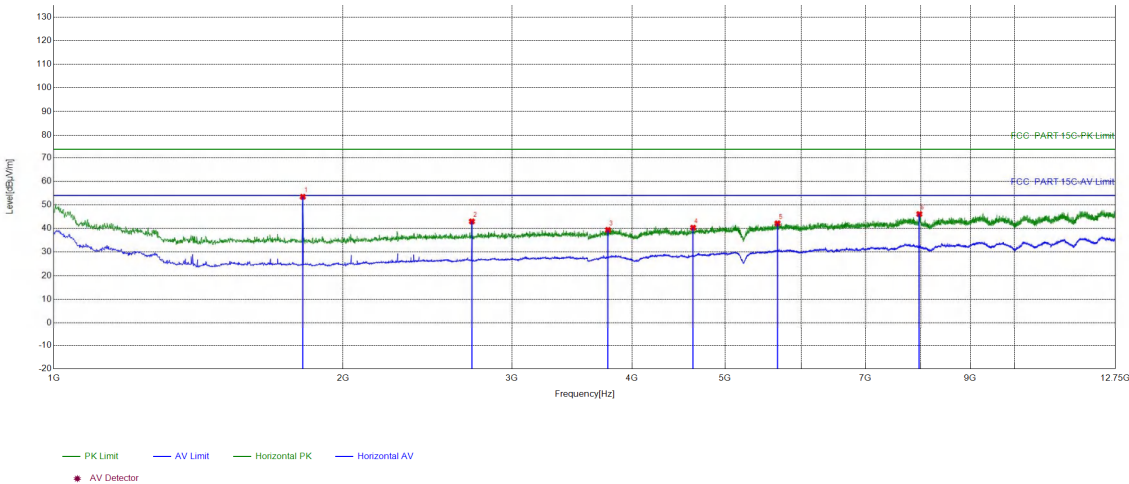


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1804.9555	-20.11	71.97	51.86	74.00	22.14	PASS	Vertical	PK
2	2707.4457	-16.54	57.41	40.87	74.00	33.13	PASS	Vertical	PK
3	3189.2439	-14.84	59.30	44.46	74.00	29.54	PASS	Vertical	PK
4	3797.9548	-12.78	52.16	39.38	74.00	34.62	PASS	Vertical	PK
5	4620.5371	-9.46	49.05	39.59	74.00	34.41	PASS	Vertical	PK
6	6316.2316	-5.02	48.24	43.22	74.00	30.78	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

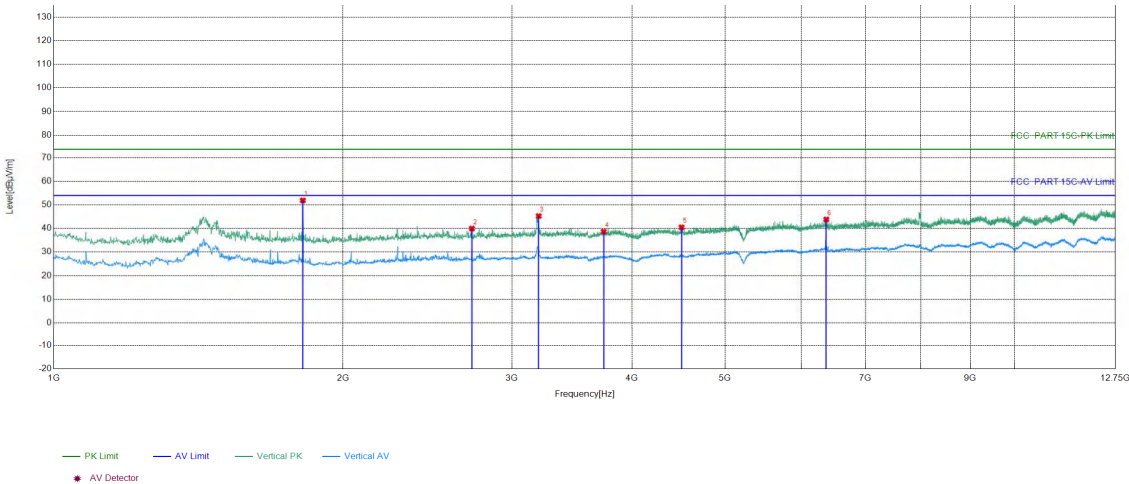
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1816.7067	-20.09	73.53	53.44	74.00	20.56	PASS	Horizontal	PK
2	2725.0725	-16.45	59.43	42.98	74.00	31.02	PASS	Horizontal	PK
3	3776.8027	-12.95	52.34	39.39	74.00	34.61	PASS	Horizontal	PK
4	4632.2882	-9.43	49.75	40.32	74.00	33.68	PASS	Horizontal	PK
5	5671.0921	-6.12	48.28	42.16	74.00	31.84	PASS	Horizontal	PK
6	7967.2717	-1.45	47.56	46.11	74.00	27.89	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

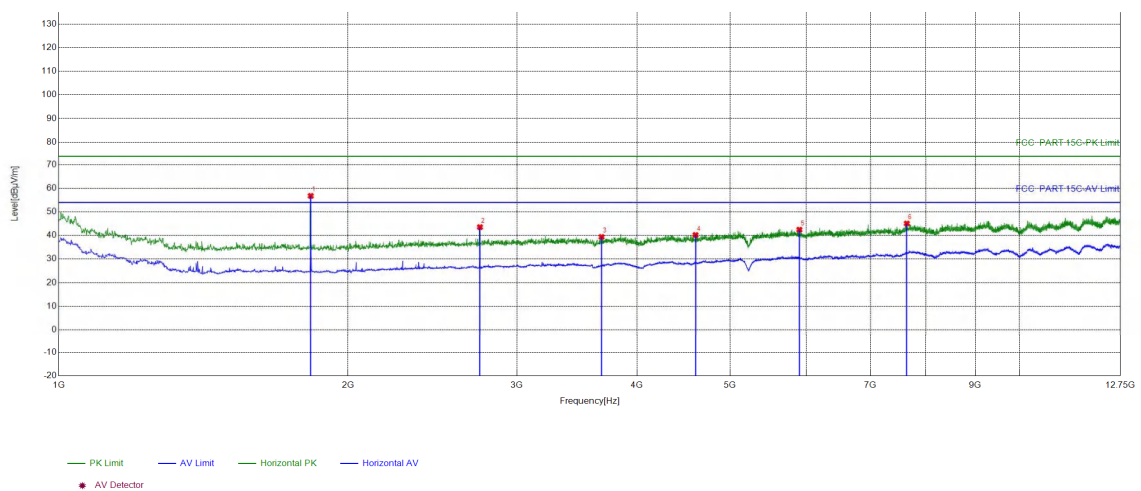
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1816.7067	-20.09	71.98	51.89	74.00	22.11	PASS	Vertical	PK
2	2725.0725	-16.45	56.40	39.95	74.00	34.05	PASS	Vertical	PK
3	3198.6449	-14.77	60.03	45.26	74.00	28.74	PASS	Vertical	PK
4	3738.0238	-13.14	51.78	38.64	74.00	35.36	PASS	Vertical	PK
5	4505.3755	-9.80	50.27	40.47	74.00	33.53	PASS	Vertical	PK
6	6373.8124	-4.67	48.49	43.82	74.00	30.18	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	914.9Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

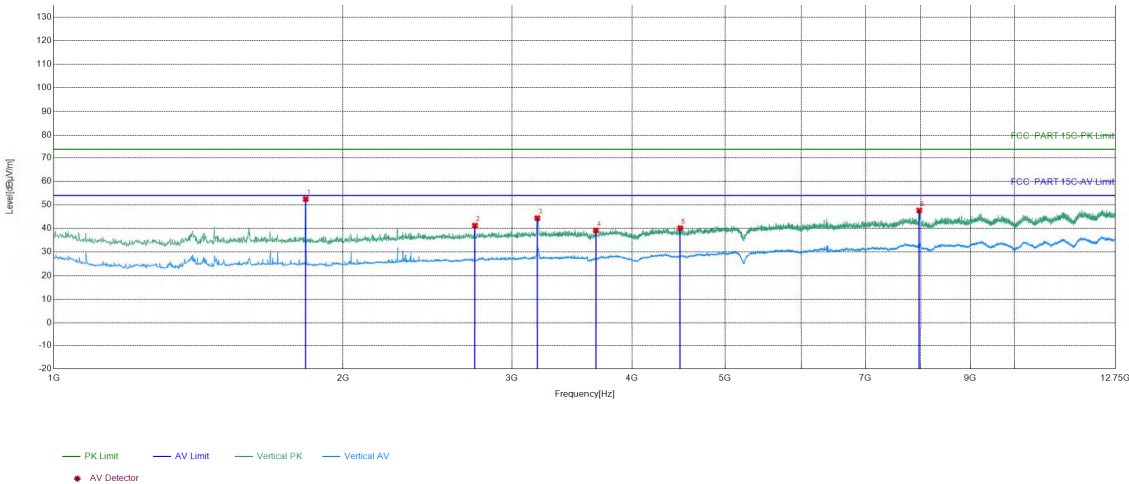
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1829.633	-20.07	76.84	56.77	74.00	17.23	PASS	Horizontal	PK
2	2745.0495	-16.36	59.90	43.54	74.00	30.46	PASS	Horizontal	PK
3	3674.5675	-13.26	52.64	39.38	74.00	34.62	PASS	Horizontal	PK
4	4602.9103	-9.51	49.70	40.19	74.00	33.81	PASS	Horizontal	PK
5	5904.9405	-5.78	48.22	42.44	74.00	31.56	PASS	Horizontal	PK
6	7639.4139	-2.34	47.40	45.06	74.00	28.94	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	914.9Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/03
Remark	Spring Antenna		

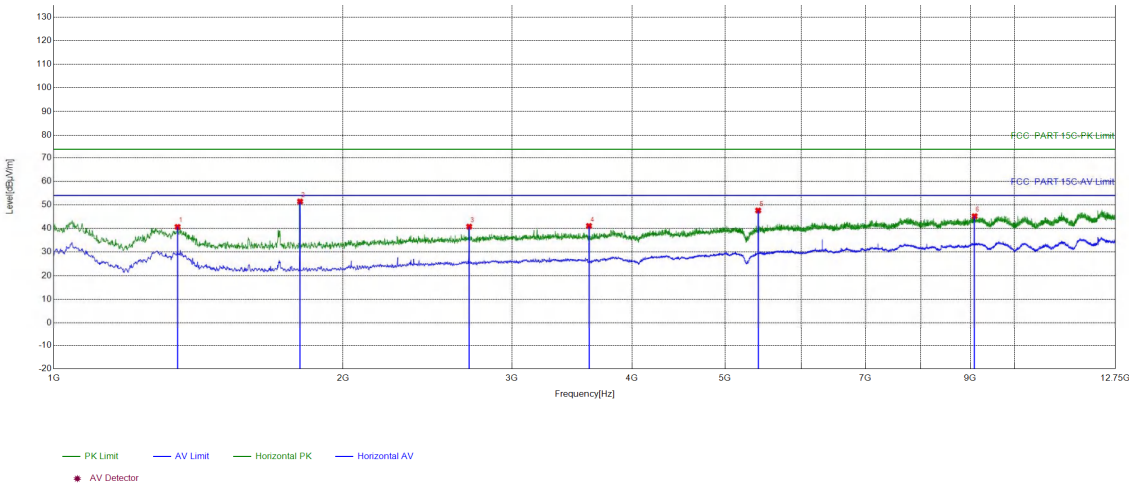
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1829.633	-20.07	72.55	52.48	74.00	21.52	PASS	Vertical	PK
2	2745.0495	-16.36	57.58	41.22	74.00	32.78	PASS	Vertical	PK
3	3188.0688	-14.85	59.22	44.37	74.00	29.63	PASS	Vertical	PK
4	3668.6919	-13.29	52.46	39.17	74.00	34.83	PASS	Vertical	PK
5	4491.2741	-9.87	50.00	40.13	74.00	33.87	PASS	Vertical	PK
6	7966.0966	-1.45	49.09	47.64	74.00	26.36	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	FPC Antenna		

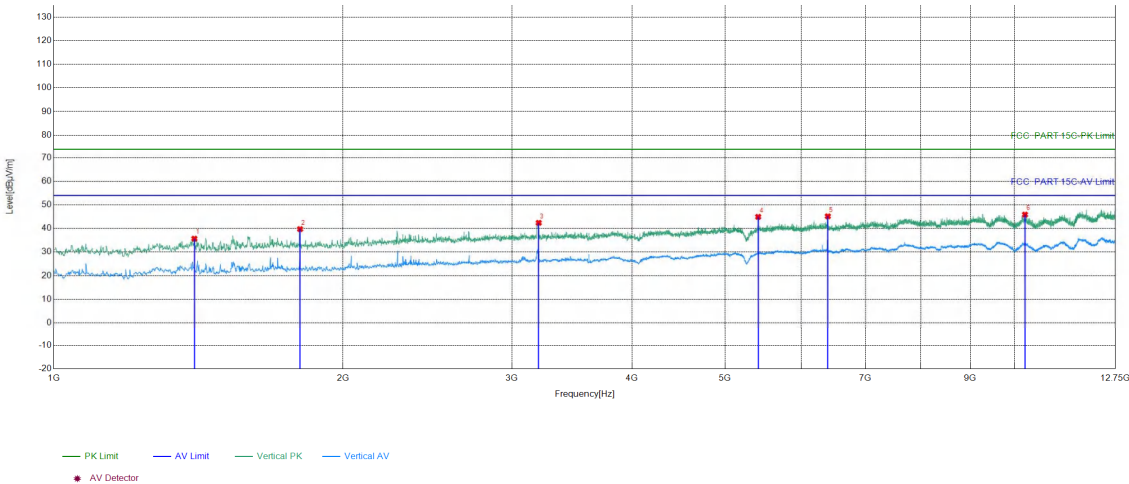
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1345.4845	-22.00	62.66	40.66	74.00	33.34	PASS	Horizontal	PK
2	1804.9555	-20.11	71.54	51.43	74.00	22.57	PASS	Horizontal	PK
3	2707.4457	-16.54	57.31	40.77	74.00	33.23	PASS	Horizontal	PK
4	3608.7609	-13.57	54.63	41.06	74.00	32.94	PASS	Horizontal	PK
5	5413.7414	-6.43	54.05	47.62	74.00	26.38	PASS	Horizontal	PK
6	9096.5597	0.00	45.21	45.21	74.00	28.79	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	FPC Antenna		

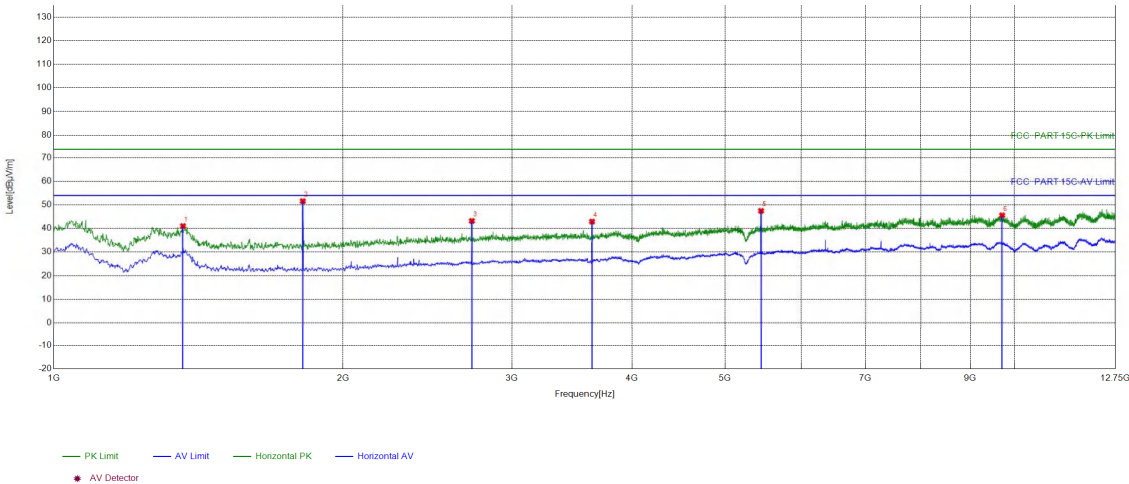
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1400.7151	-21.69	57.36	35.67	74.00	38.33	PASS	Vertical	PK
2	1804.9555	-20.11	59.84	39.73	74.00	34.27	PASS	Vertical	PK
3	3198.6449	-14.77	57.15	42.38	74.00	31.62	PASS	Vertical	PK
4	5413.7414	-6.43	51.36	44.93	74.00	29.07	PASS	Vertical	PK
5	6397.3147	-4.64	49.80	45.16	74.00	28.84	PASS	Vertical	PK
6	10264.6265	1.76	44.12	45.88	74.00	28.12	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	FPC Antenna		

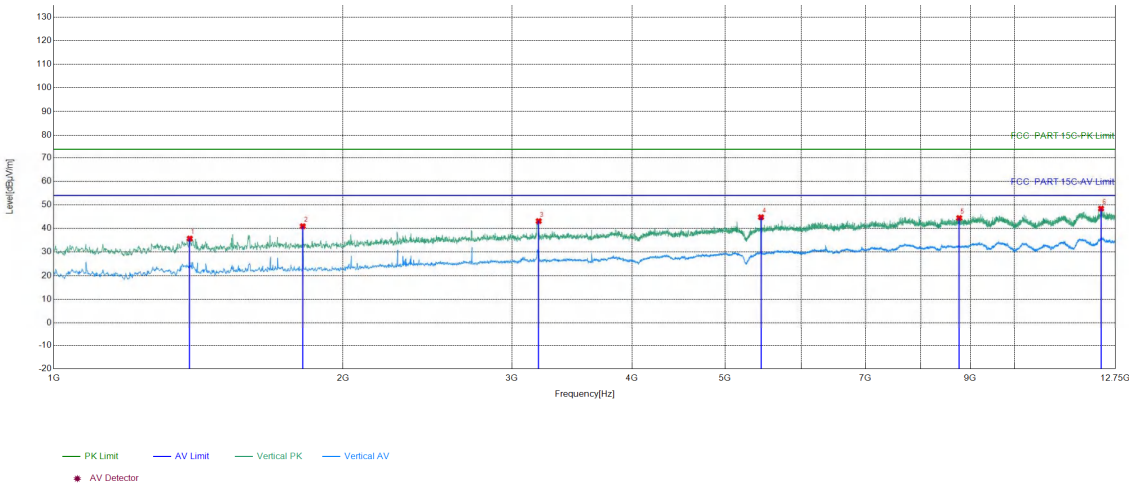
Test Graph



Suspected List									
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1	1363.1113	-21.92	62.92	41.00	74.00	33.00	PASS	Horizontal	PK
2	1816.7067	-20.09	71.65	51.56	74.00	22.44	PASS	Horizontal	PK
3	2725.0725	-16.45	59.62	43.17	74.00	30.83	PASS	Horizontal	PK
4	3634.6135	-13.47	56.39	42.92	74.00	31.08	PASS	Horizontal	PK
5	5451.3451	-6.12	53.57	47.45	74.00	26.55	PASS	Horizontal	PK
6	9717.0217	1.15	44.41	45.56	74.00	28.44	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	FPC Antenna		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1385.4385	-21.78	57.50	35.72	74.00	38.28	PASS	Vertical	PK
2	1816.7067	-20.09	61.03	40.94	74.00	33.06	PASS	Vertical	PK
3	3198.6449	-14.77	57.89	43.12	74.00	30.88	PASS	Vertical	PK
4	5451.3451	-6.12	50.89	44.77	74.00	29.23	PASS	Vertical	PK
5	8767.5268	-0.12	44.55	44.43	74.00	29.57	PASS	Vertical	PK
6	12318.7319	3.96	44.45	48.41	74.00	25.59	PASS	Vertical	PK

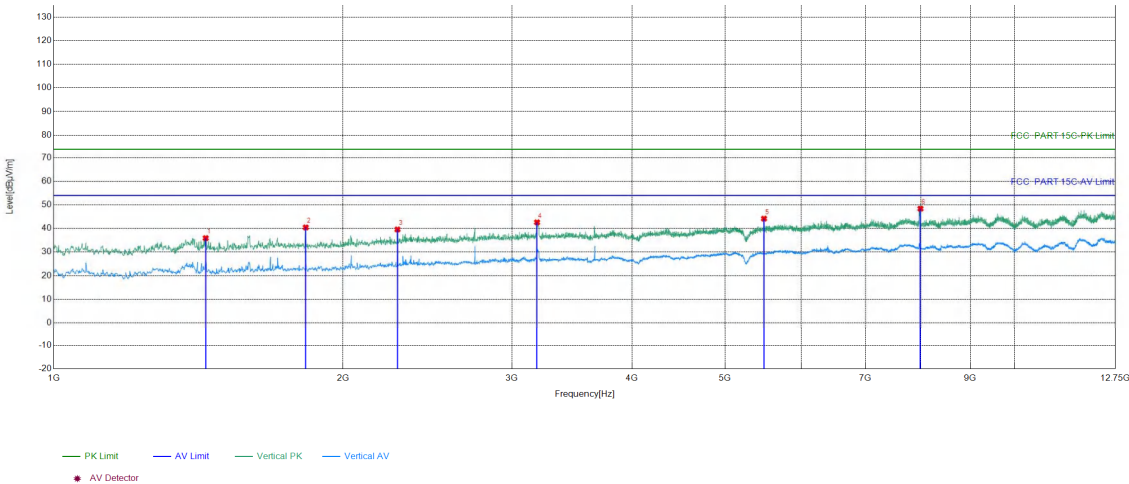
Test Graph



Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com

Test_Mode	LoRa(FHSS)	Test_Frequency	914.9Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	FPC Antenna		

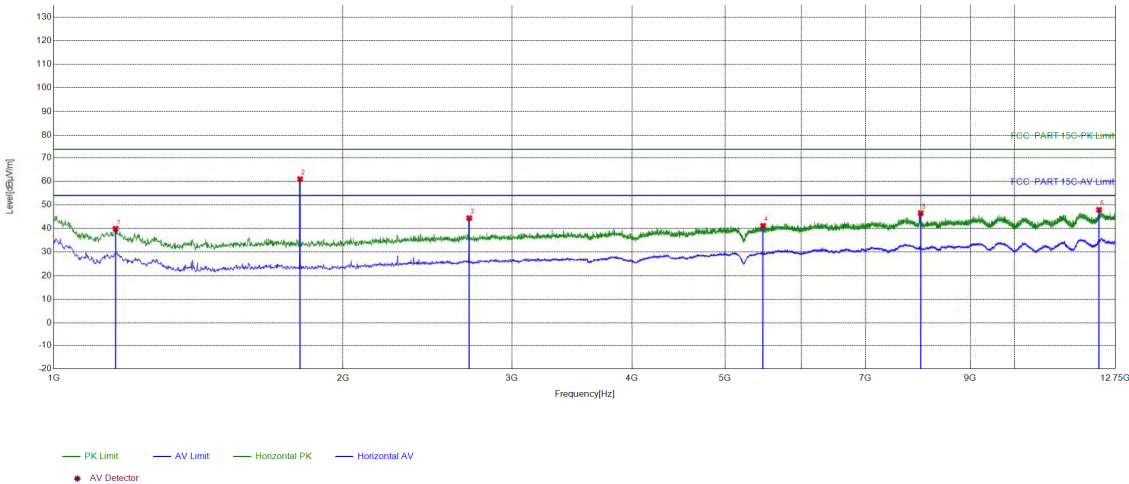
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1439.4939	-21.63	57.53	35.90	74.00	38.10	PASS	Vertical	PK
2	1829.633	-20.07	60.50	40.43	74.00	33.57	PASS	Vertical	PK
3	2279.703	-18.29	57.86	39.57	74.00	34.43	PASS	Vertical	PK
4	3185.7186	-14.86	57.47	42.61	74.00	31.39	PASS	Vertical	PK
5	5490.124	-6.45	50.61	44.16	74.00	29.84	PASS	Vertical	PK
6	7988.4238	-1.42	49.80	48.38	74.00	25.62	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

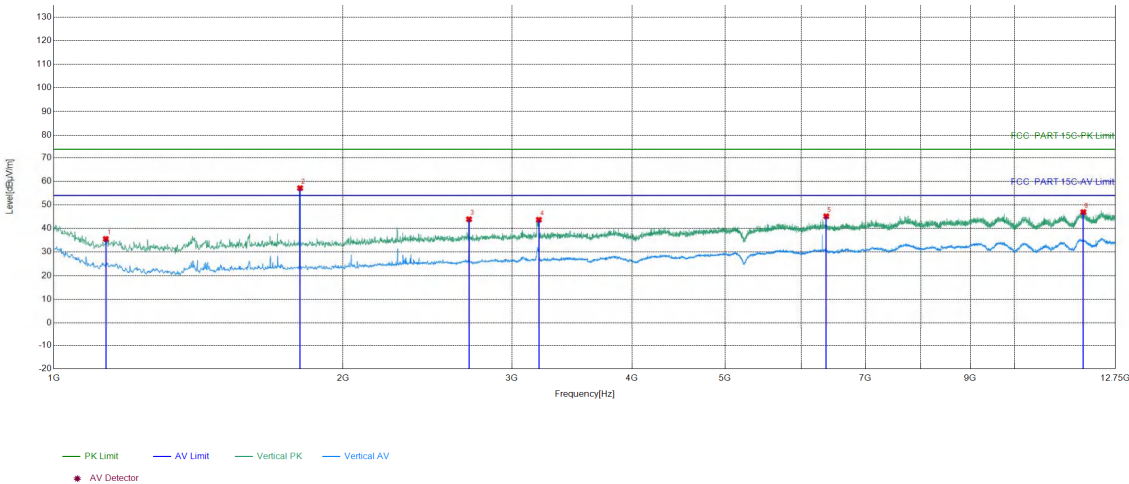
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1159.816	-22.71	62.57	39.86	74.00	34.14	PASS	Horizontal	PK
2	1804.9555	-20.11	81.03	60.92	74.00	13.08	PASS	Horizontal	PK
3	2707.4457	-16.54	60.95	44.41	74.00	29.59	PASS	Horizontal	PK
4	5478.3728	-6.35	47.49	41.14	74.00	32.86	PASS	Horizontal	PK
5	7993.1243	-1.42	47.86	46.44	74.00	27.56	PASS	Horizontal	PK
6	12259.976	3.53	44.38	47.91	74.00	26.09	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	902.3Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

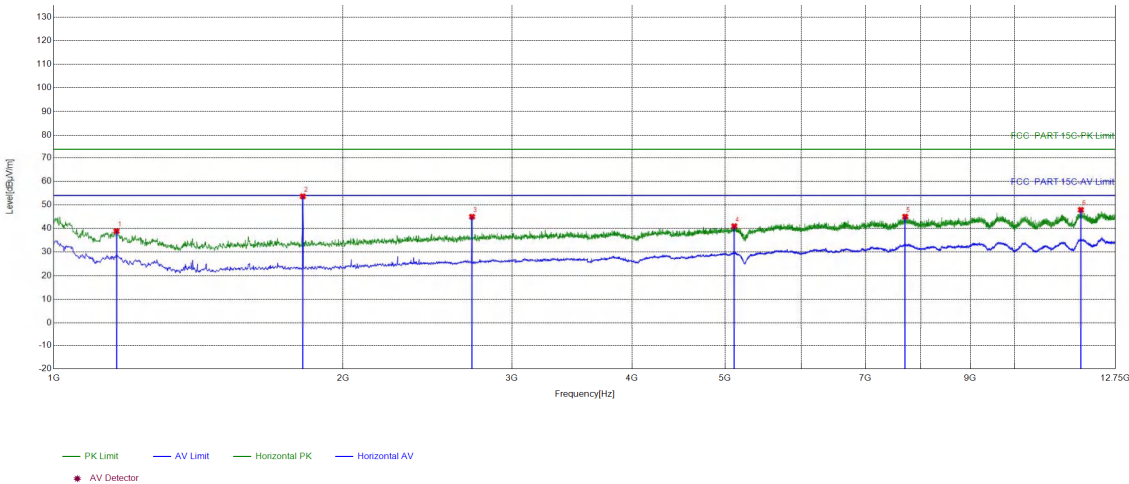
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1132.7883	-22.82	58.37	35.55	74.00	38.45	PASS	Vertical	PK
2	1804.9555	-20.11	77.21	57.10	74.00	16.90	PASS	Vertical	PK
3	2706.2706	-16.54	60.46	43.92	74.00	30.08	PASS	Vertical	PK
4	3199.82	-14.76	58.46	43.70	74.00	30.30	PASS	Vertical	PK
5	6373.8124	-4.67	49.83	45.16	74.00	28.84	PASS	Vertical	PK
6	11807.5558	2.12	44.82	46.94	74.00	27.06	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

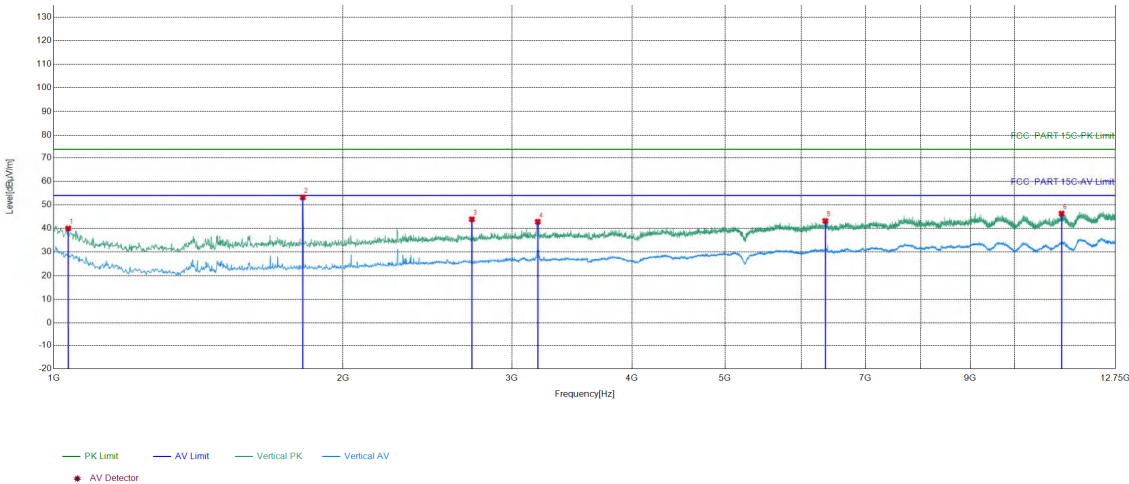
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1162.1662	-22.68	61.54	38.86	74.00	35.14	PASS	Horizontal	PK
2	1816.7067	-20.09	73.69	53.60	74.00	20.40	PASS	Horizontal	PK
3	2726.2476	-16.45	61.42	44.97	74.00	29.03	PASS	Horizontal	PK
4	5112.9113	-7.97	48.93	40.96	74.00	33.04	PASS	Horizontal	PK
5	7702.8703	-1.76	46.77	45.01	74.00	28.99	PASS	Horizontal	PK
6	11735.8736	2.32	45.58	47.90	74.00	26.10	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	908.5Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

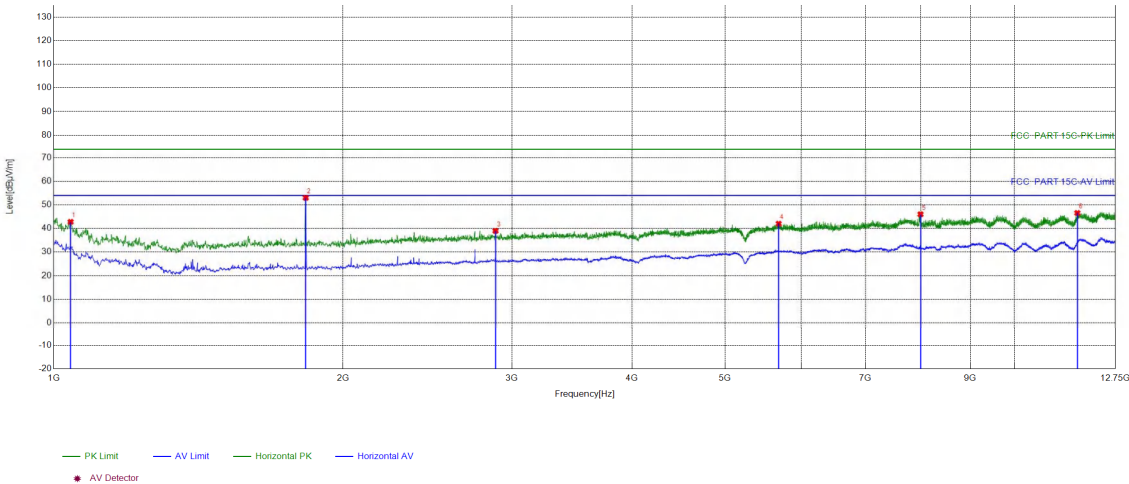
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1035.2535	-22.33	62.34	40.01	74.00	33.99	PASS	Vertical	PK
2	1816.7067	-20.09	73.27	53.18	74.00	20.82	PASS	Vertical	PK
3	2725.0725	-16.45	60.35	43.90	74.00	30.10	PASS	Vertical	PK
4	3191.5942	-14.82	57.67	42.85	74.00	31.15	PASS	Vertical	PK
5	6359.711	-4.68	47.87	43.19	74.00	30.81	PASS	Vertical	PK
6	11205.8956	2.08	44.24	46.32	74.00	27.68	PASS	Vertical	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	914.9Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

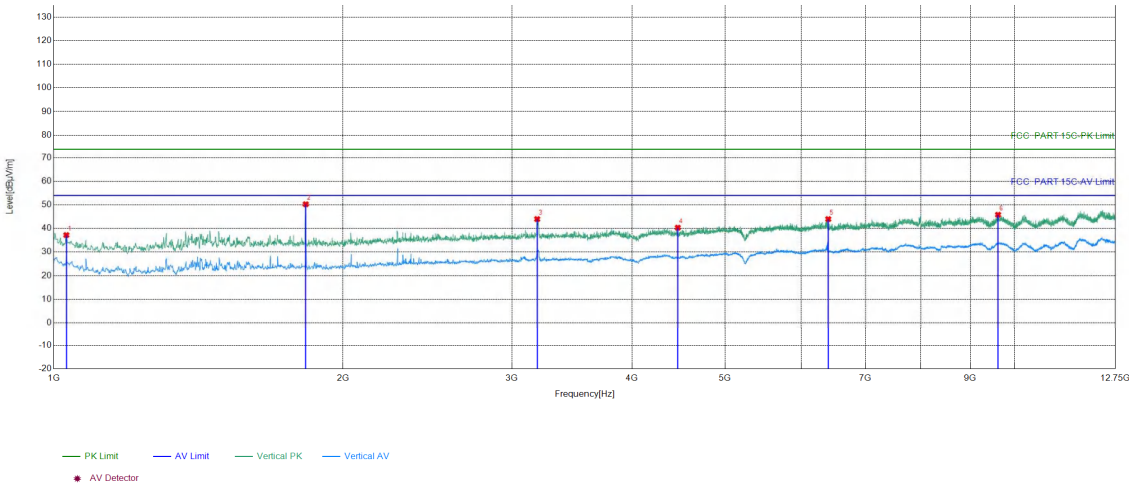
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1041.1291	-22.44	65.25	42.81	74.00	31.19	PASS	Horizontal	PK
2	1829.633	-20.07	73.07	53.00	74.00	21.00	PASS	Horizontal	PK
3	2883.7134	-15.93	54.91	38.98	74.00	35.02	PASS	Horizontal	PK
4	5686.3686	-6.11	48.13	42.02	74.00	31.98	PASS	Horizontal	PK
5	7989.599	-1.42	47.43	46.01	74.00	27.99	PASS	Horizontal	PK
6	11637.1637	2.31	44.24	46.55	74.00	27.45	PASS	Horizontal	PK

Test_Mode	LoRa(FHSS)	Test_Frequency	914.9Mhz
Tset_Engineer	chenjun	Test_Date	2025/09/06
Remark	Fiberglass Antenna		

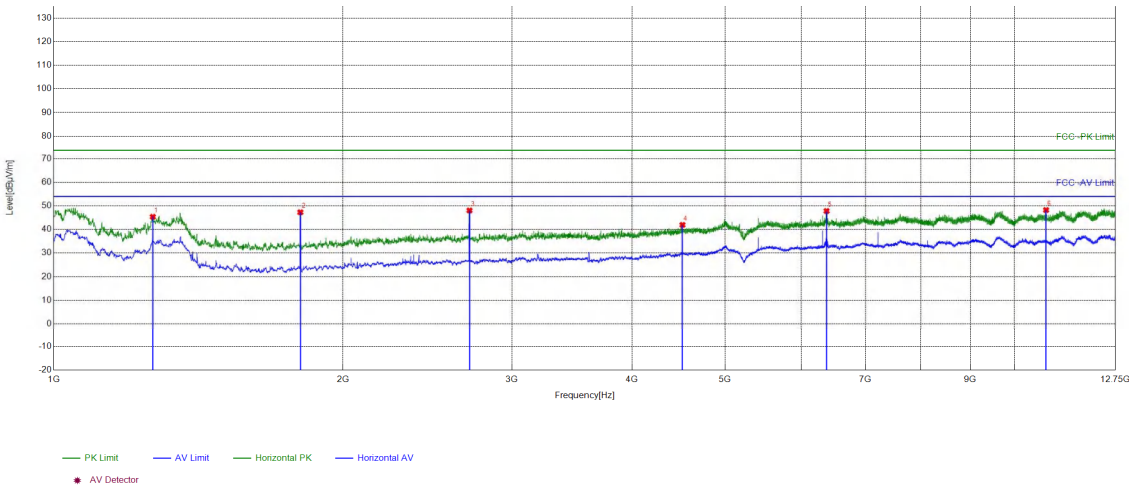
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1030.5531	-22.25	59.44	37.19	74.00	36.81	PASS	Vertical	PK
2	1829.633	-20.07	70.34	50.27	74.00	23.73	PASS	Vertical	PK
3	3186.8937	-14.85	58.83	43.98	74.00	30.02	PASS	Vertical	PK
4	4464.2464	-10.07	50.40	40.33	74.00	33.67	PASS	Vertical	PK
5	6404.3654	-4.62	48.59	43.97	74.00	30.03	PASS	Vertical	PK
6	9623.0123	1.33	44.48	45.81	74.00	28.19	PASS	Vertical	PK

Test_Mode	LR-FHSS	Test_Frequency	903Mhz
Tset_Engineer	Wangzhurun	Test_Date	2025/12/29
Remark	Spring Antenna		

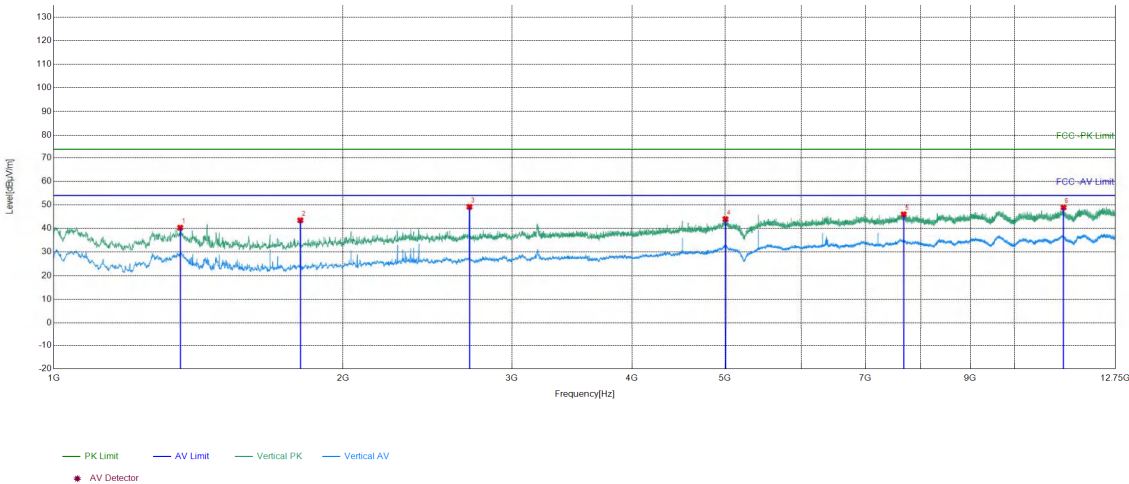
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1267.9179	-22.26	67.63	45.37	74.00	28.63	PASS	Horizontal	PK
2	1806.1037	-20.11	67.40	47.29	74.00	26.71	PASS	Horizontal	PK
3	2709.3473	-16.53	64.58	48.05	74.00	25.95	PASS	Horizontal	PK
4	4515.051	-9.78	51.71	41.93	74.00	32.07	PASS	Horizontal	PK
5	6377.9419	-4.66	52.49	47.83	74.00	26.17	PASS	Horizontal	PK
6	10797.0198	1.74	46.48	48.22	74.00	25.78	PASS	Horizontal	PK

Test_Mode	LR-FHSS	Test_Frequency	903Mhz
Tset_Engineer	Wangzhurun	Test_Date	2025/12/29
Remark	Spring Antenna		

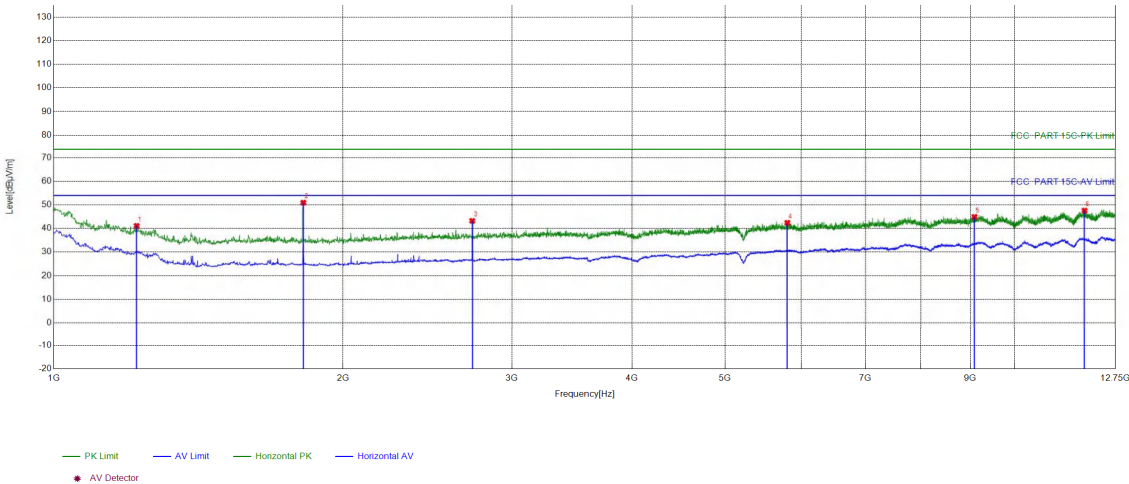
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1354.0903	-21.98	62.31	40.33	74.00	33.67	PASS	Vertical	PK
2	1806.1037	-20.11	63.59	43.48	74.00	30.52	PASS	Vertical	PK
3	2709.3473	-16.53	65.68	49.15	74.00	24.85	PASS	Vertical	PK
4	5005.4504	-8.27	52.24	43.97	74.00	30.03	PASS	Vertical	PK
5	7673.6616	-2.08	48.07	45.99	74.00	28.01	PASS	Vertical	PK
6	11257.6505	2.53	46.35	48.88	74.00	25.12	PASS	Vertical	PK

Test_Mode	LR-FHSS	Test_Frequency	909.4Mhz
Tset_Engineer	Wangzhurun	Test_Date	2025/12/29
Remark	Spring Antenna		

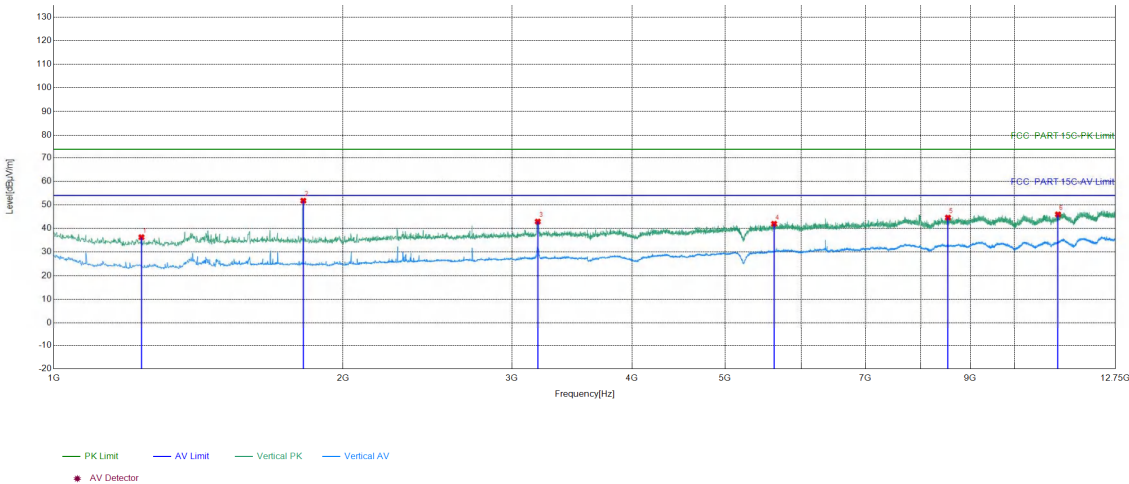
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1219.747	-22.32	63.40	41.08	74.00	32.92	PASS	Horizontal	PK
2	1819.0569	-20.09	71.02	50.93	74.00	23.07	PASS	Horizontal	PK
3	2727.4227	-16.44	59.65	43.21	74.00	30.79	PASS	Horizontal	PK
4	5806.2306	-5.58	47.96	42.38	74.00	31.62	PASS	Horizontal	PK
5	9094.2094	0.03	44.88	44.91	74.00	29.09	PASS	Horizontal	PK
6	11840.459	2.23	45.34	47.57	74.00	26.43	PASS	Horizontal	PK

Test_Mode	LR-FHSS	Test_Frequency	909.4Mhz
Tset_Engineer	Wangzhurun	Test_Date	2025/12/29
Remark	Spring Antenna		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1233.8484	-22.34	58.62	36.28	74.00	37.72	PASS	Vertical	PK
2	1819.0569	-20.09	71.85	51.76	74.00	22.24	PASS	Vertical	PK
3	3191.5942	-14.82	57.74	42.92	74.00	31.08	PASS	Vertical	PK
4	5624.0874	-6.07	48.04	41.97	74.00	32.03	PASS	Vertical	PK
5	8533.6784	-0.79	45.39	44.60	74.00	29.40	PASS	Vertical	PK
6	11109.536	2.18	43.77	45.95	74.00	28.05	PASS	Vertical	PK