

TEST REPORT

Product : Thermal printer
Trade mark : N/A
Model/Type reference : FT204, AT204, BT204, CT204, DT204, ET204, FT204, GT204, HT204, IT204, JT204, KT204, LT204, MT204, NT204, OT204, PT204, QT204, RT204, ST204, TT204, UT204, VT204, WT204, XT204, YT204, ZT204
Serial Number : N/A
Report Number : EED32S817771
FCC ID : 2A6FW-FT204
Date of Issue : Aug. 20, 2026
Test Standards : 47 CFR Part 15, Subpart C
Test result : PASS

Prepared for:

Xiamen Print Future Technology Co.,Ltd.
Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen
City, Fujian Province, China

Prepared by:

Centre Testing International Group Co., Ltd.
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Aug. 20, 2026

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2 Test Summary

Test Item	FCC Test Requirement	Test Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 2020	Pass
Conducted Emission (150KHz to 30MHz)	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2020	Pass
Electric Field Strength of Fundamental and Outside the Allocated bands	47 CFR Part 15, Subpart C Section 15.225(a)/(b)/(c)	ANSI C63.10 2020	Pass
Radiated Emission	47 CFR Part 15, Subpart C Section 15.225(d)/15.209	ANSI C63.10 2020	Pass
Frequency Tolerance	47 CFR Part 15, Subpart C Section 15.225(e)	ANSI C63.10 2020	Pass
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215	ANSI C63.10 2020	Pass

3 General Information

3.1 Client Information

Applicant:	Xiamen Print Future Technology Co.,Ltd.
Address of Applicant:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Manufacturer:	Xiamen Print Future Technology Co.,Ltd.
Address of Manufacturer:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Factory:	Xiamen Print Future Technology Co.,Ltd.
Address of Factory:	Rooms 501, 601, 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China

3.2 General Description of E.U.T.

Product Name:	Thermal printer	
Model No.:	FT204, AT204, BT204, CT204, DT204, ET204, FT204, GT204, HT204, IT204, JT204, KT204, LT204, MT204, NT204, OT204, PT204, QT204, RT204, ST204, TT204, UT204, VT204, WT204, XT204, YT204, ZT204	
Test Model No.:	FT204	
Model difference:	They have the same electrical circuit design, layout, components used and internal wiring, with difference being color of appearance and model name.	
Trade mark:	N/A	
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location	
Hardware Version:	fcc_test_tool.exe	
Software Version:	Default	
Operation Frequency:	13.56MHz	
Modulation Type:	ASK	
Antenna Type:	Coil Antenna	
Antenna Gain:	0 dBi	
Power Supply:	Battery:	DC 3.7V
Test voltage:	DC 3.7V	
Sample Received Date:	Aug. 07, 2026	
Sample tested Date:	Aug. 07, 2026 to Aug. 14, 2026	

3.3 Test Environment & Test Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	20.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	23°C
Humidity:	52% RH
Atmospheric Pressure:	1010mbar
Test Mode:	
Test mode:	Keep EUT working in continuous transmitting mode with 100% duty cycle.

3.4 Description of Support Units

The EUT has been tested independently.

3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

IC-Registration No.: 7408A, CAB identifier number: CN0037

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 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-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
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%

3.10 Equipment List

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	04-07-2026	04-06-2027
Temperature/ Humidity Indicator	Defu	TH128	/	03-24-2026	03-23-2027
LISN	R&S	ENV216	100098	09-13-2025	09-12-2026
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-07-2025	06-06-2026
				06-10-2026	06-09-2027
ISN	TESEQ	ISN T800	30297	11-24-2025	11-23-2026

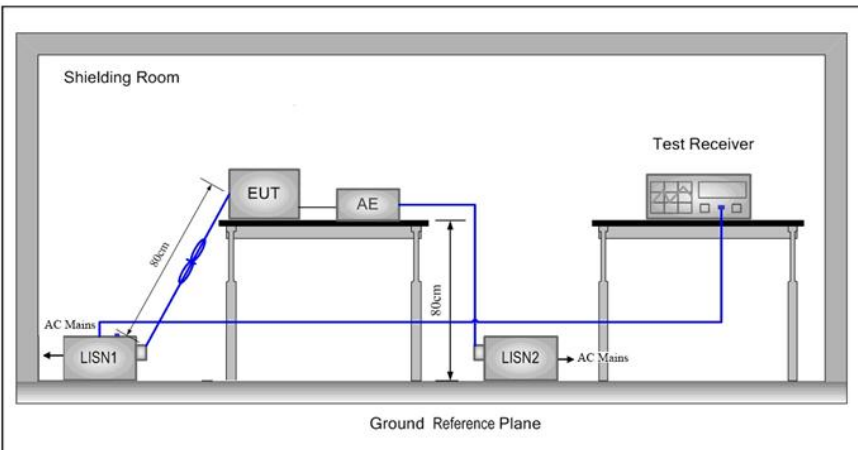
3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESCI7	100938-003	09/03/2025	09/02/2026
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/11/2026	05/10/2027
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	03/29/2026	03/28/2027
Microwave Preamplifier	Tonscend	EMC051845SE	980380	11/25/2025	11/24/2026
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023 05-16-2026	07/01/2026 05-15-2027
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	03/31/2026	03/30/2027
Preamplifier	Agilent	11909A	12-1	02/06/2026	02/05/2027
Preamplifier	CD	PAP-1840-60	6041.6042	05/16/2026	05/15/2027
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
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

4 Test Result and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part15 C Section 15.203
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.
EUT Antenna:	
The antenna is Coil antenna.	

4.2 Conducted Emissions

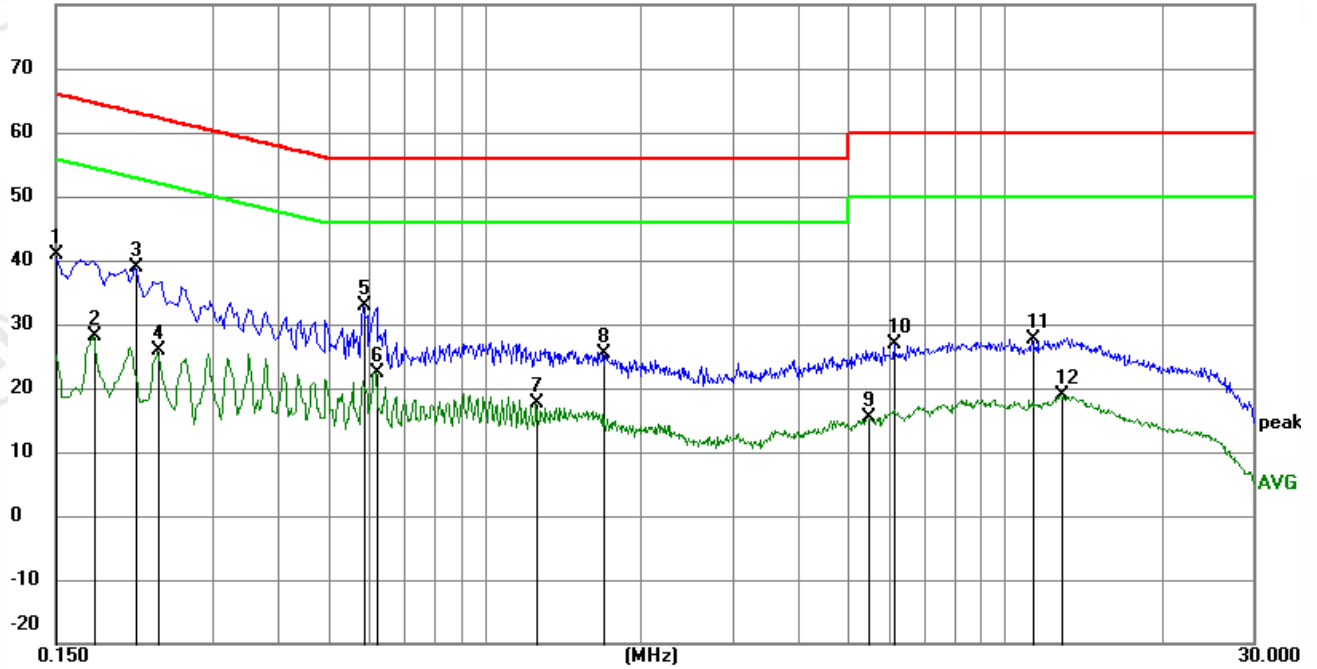
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	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 $50\Omega/50\mu\text{H} + 5\Omega$ 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.		
Test Setup:			

Test Mode:	Transmitting with ASK modulation.
Test Results:	Pass

Measurement Data

Mode a:

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		0.1500	30.62	10.29	40.91	66.00	-25.09	QP	
2		0.1770	17.76	10.28	28.04	54.63	-26.59	AVG	
3		0.2130	28.63	10.24	38.87	63.09	-24.22	QP	
4		0.2355	15.69	10.19	25.88	52.25	-26.37	AVG	
5	*	0.5865	22.87	10.09	32.96	56.00	-23.04	QP	
6		0.6180	12.34	10.12	22.46	46.00	-23.54	AVG	
7		1.2570	7.49	10.21	17.70	46.00	-28.30	AVG	
8		1.6980	15.14	10.17	25.31	56.00	-30.69	QP	
9		5.4645	5.45	9.95	15.40	50.00	-34.60	AVG	
10		6.1530	17.03	9.91	26.94	60.00	-33.06	QP	
11		11.2830	17.79	9.78	27.57	60.00	-32.43	QP	
12		12.8490	9.15	9.71	18.86	50.00	-31.14	AVG	

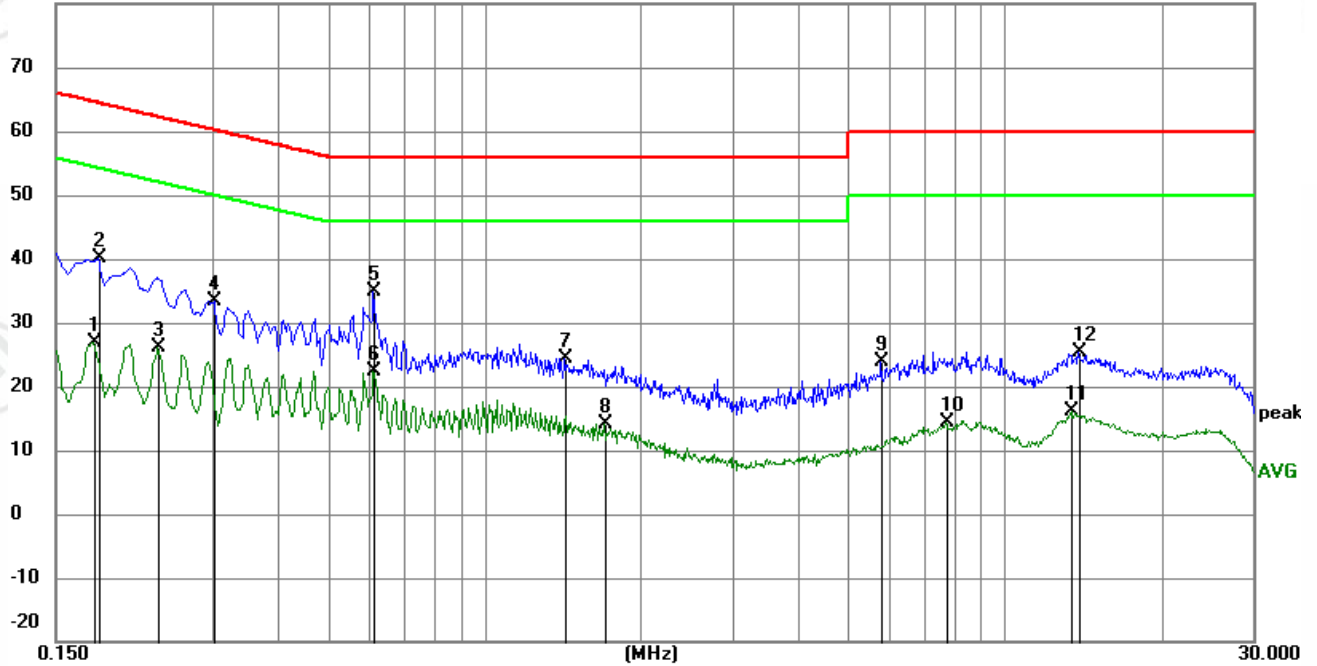
Remark:

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.

Mode a:

Neutral line:

80.0 dBuV

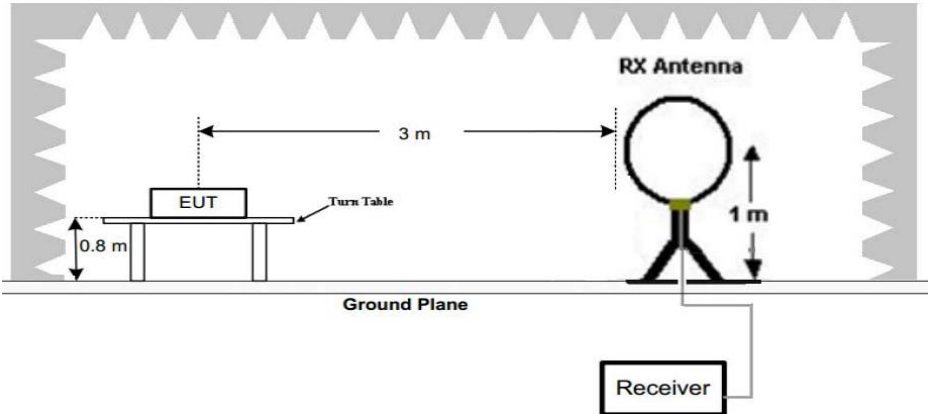


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1770	16.70	10.28	26.98	54.63	-27.65	AVG	
2		0.1815	29.83	10.28	40.11	64.42	-24.31	QP	
3		0.2355	15.86	10.19	26.05	52.25	-26.20	AVG	
4		0.3030	23.37	10.05	33.42	60.16	-26.74	QP	
5	*	0.6134	24.83	10.12	34.95	56.00	-21.05	QP	
6		0.6134	12.33	10.12	22.45	46.00	-23.55	AVG	
7		1.4325	14.07	10.19	24.26	56.00	-31.74	QP	
8		1.7025	4.02	10.17	14.19	46.00	-31.81	AVG	
9		5.7975	13.98	9.93	23.91	60.00	-36.09	QP	
10		7.6920	4.55	9.86	14.41	50.00	-35.59	AVG	
11		13.4295	6.41	9.69	16.10	50.00	-33.90	AVG	
12		13.8570	15.77	9.67	25.44	60.00	-34.56	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.

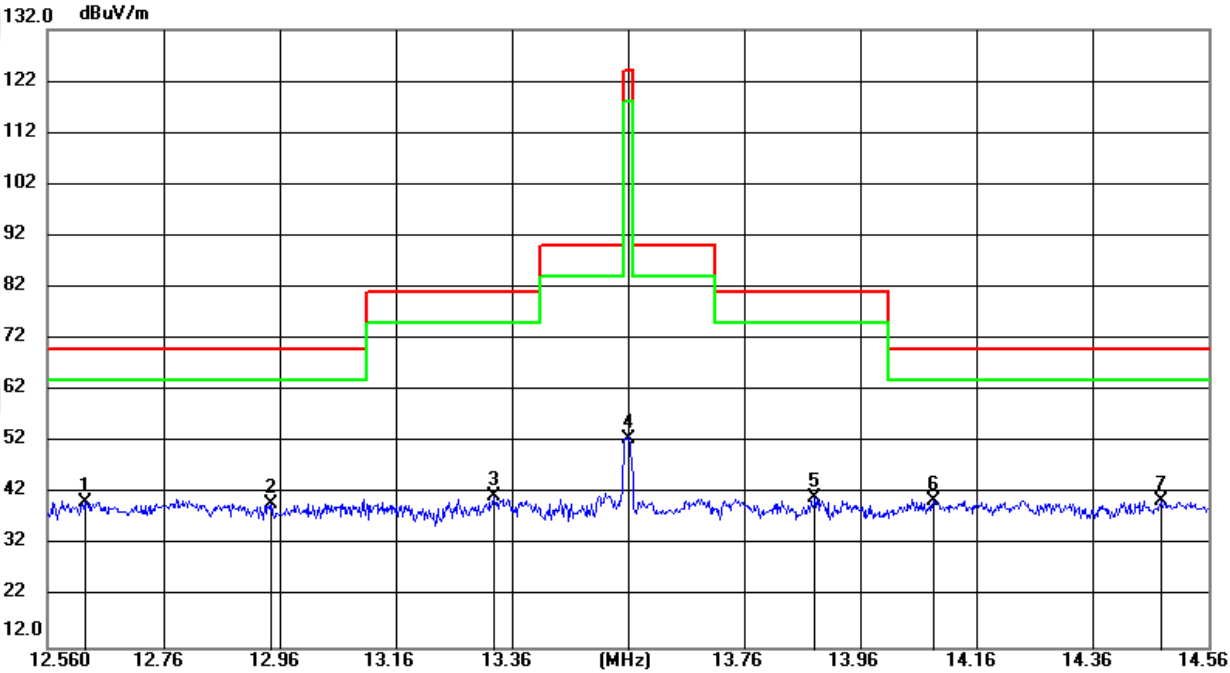
4.3 Electric Field Strength of Fundamental and Outside the Allocated bands

Test Requirement:	47 CFR Part 15, Subpart C Section 15.225(a)/(b)/(c)				
Test Method:	ANSI C63.10: 2020				
Test Site:	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
Limit:	Frequency Range(MHz)	E-field Strength Limit @ 30 m (μV/m)	E-field Strength Limit @ 3 m (dBμV/m)		
	13.560 ± 0.007	15848	124		
	13.410 to 13.553 13.567 to 13.710	334	90		
	13.110 to 13.410 13.710 to 14.010	106	81		
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation(dB)=40log ₁₀ (Measurement Distance/Specification Distance)					
Test Setup:	 Figure 1. Below 30MHz				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Mode:	Transmitting with ASK modulation.
Test Result:	Pass

Measurement Data

X axis positioning



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

4.4 Radiated Emissions

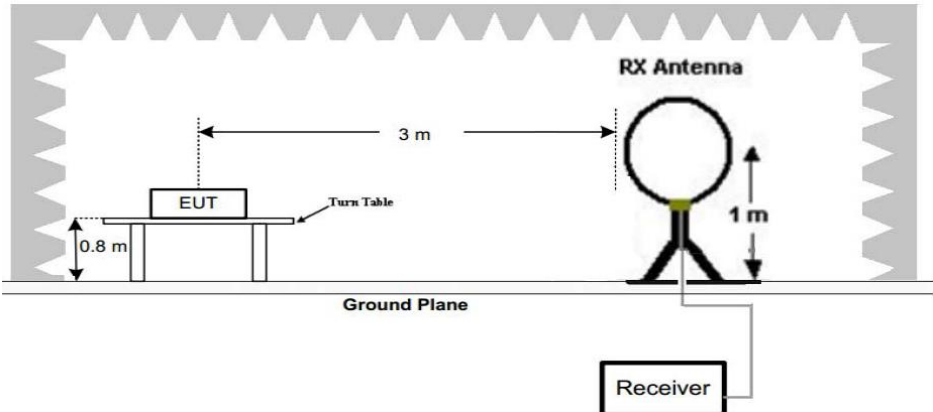
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.225(d),				
Test Method:	ANSI C63.10: 2020				
Test Site:	3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	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
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m) @ 3 m	Remark	
	0.009MHz-0.490MHz	2400/F(kHz) @300m	128.5-93.8	Quasi-peak	
	0.490MHz-1.705MHz	24000/F(kHz) @30m	73.8-63	Quasi-peak	
	1.705MHz-30MHz	30 @30m	70	Quasi-peak	
	30MHz-88MHz	100 @3m	40.0	Quasi-peak	
	88MHz-216MHz	150 @3m	43.5	Quasi-peak	
	216MHz-960MHz	200 @3m	46.0	Quasi-peak	
	960MHz-1GHz	500 @3m	54.0	Quasi-peak	
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation(dB)=40log ₁₀ (Measurement Distance/Specification Distance)					
Test Setup:					

Figure 1. Below 30MHz

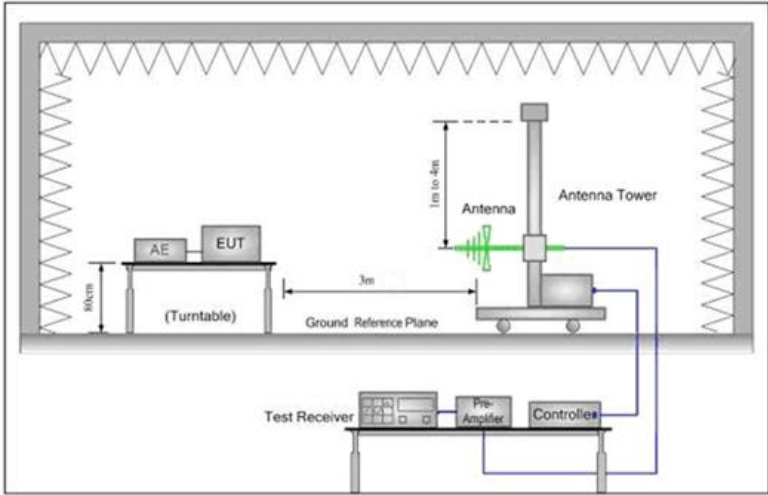


Figure 2. 30MHz to 1GHz

Test Procedure:

- 5. 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.
- 6. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 7. 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.
- 8. 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.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. 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.
- 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Test Mode:

Transmitting with ASK modulation.

Test Result:

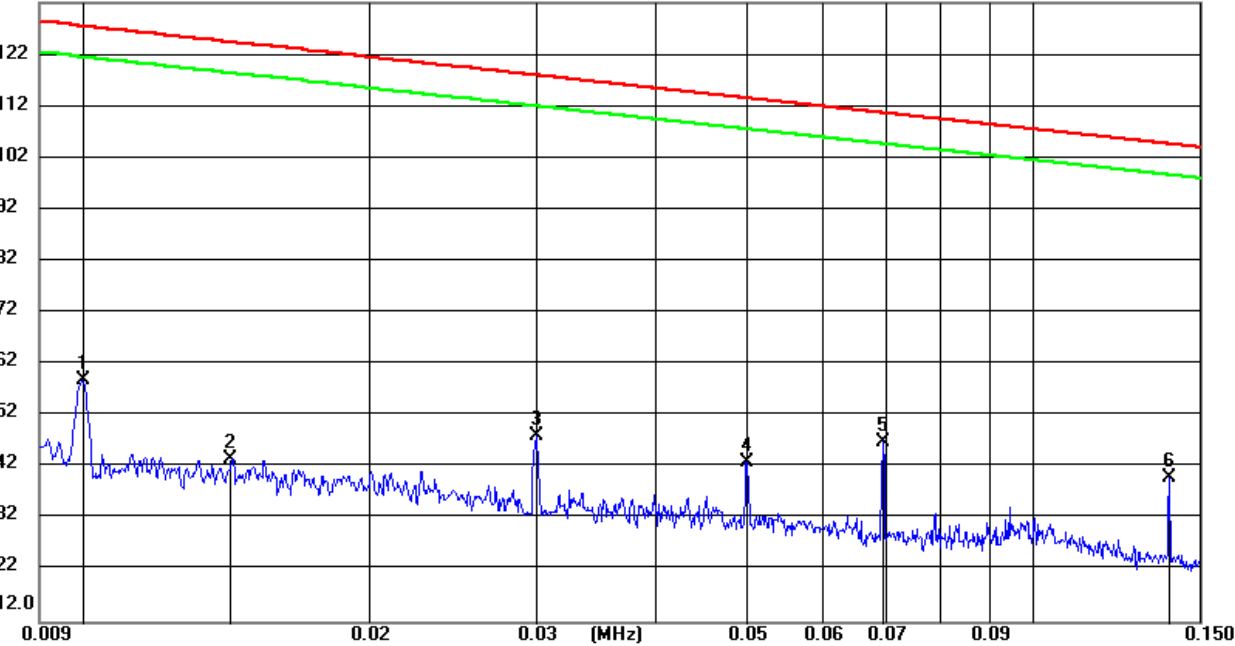
Pass

Measurement Data

X axis positioning

9kHz – 150KHz:

132.0 dBuV/m



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		0.0100	37.62	21.30	58.92	127.40	-68.48	QP		
2		0.0143	22.55	21.10	43.65	124.31	-80.66	QP		
3		0.0300	27.25	20.92	48.17	117.91	-69.74	QP		
4		0.0500	22.27	20.90	43.17	113.50	-70.33	QP		
5	*	0.0694	26.15	20.83	46.98	110.67	-63.69	QP		
6		0.1392	19.23	20.91	40.14	104.66	-64.52	QP		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

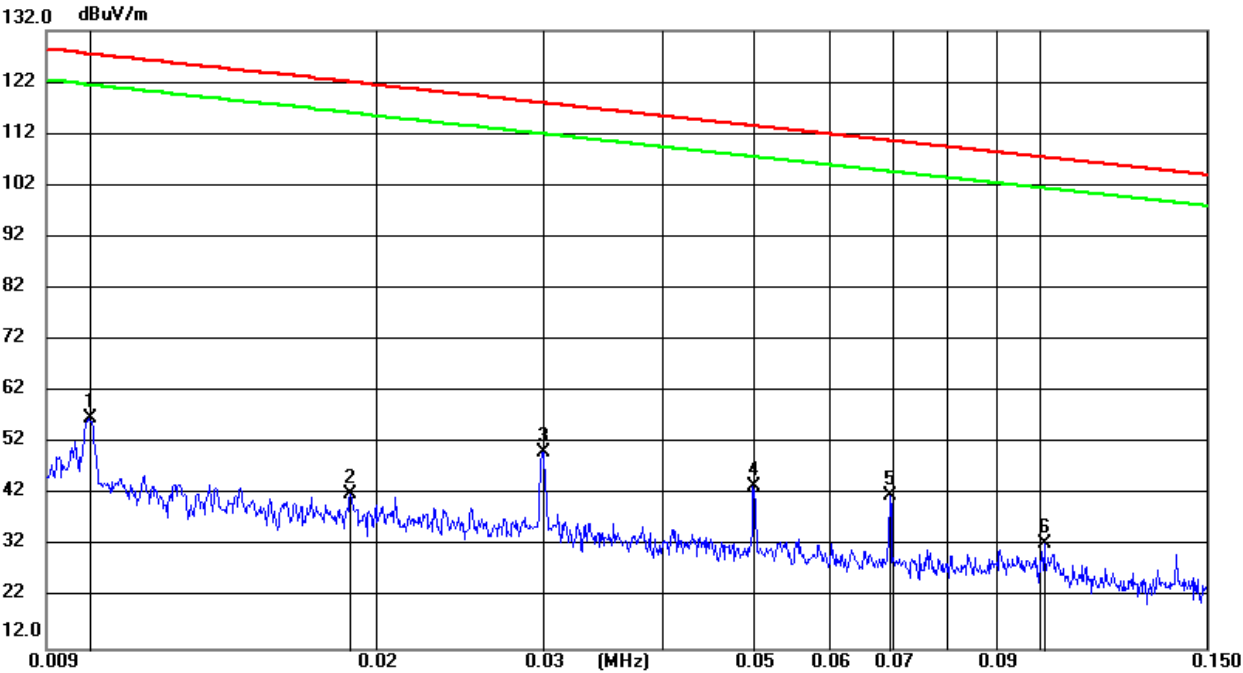
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Y axis positioning

9kHz – 150KHz:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0100	35.56	21.30	56.86	127.40	-70.54	QP		
2		0.0188	21.17	20.93	42.10	121.95	-79.85	QP		
3	*	0.0300	29.41	20.92	50.33	117.91	-67.58	QP		
4		0.0500	22.81	20.90	43.71	113.50	-69.79	QP		
5		0.0694	21.13	20.83	41.96	110.67	-68.71	QP		
6		0.1010	11.62	20.81	32.43	107.43	-75.00	QP		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

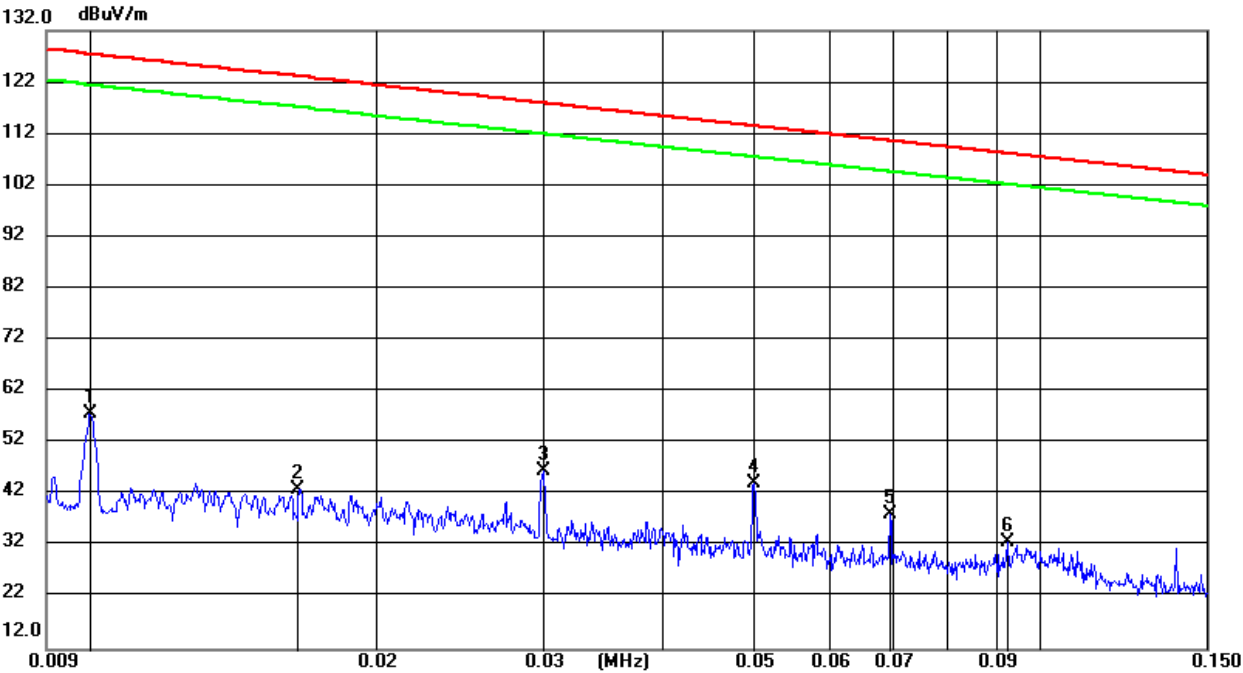
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Z axis positioning

9kHz – 150KHz:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0100	36.51	21.30	57.81	127.40	-69.59	QP		
2		0.0165	22.14	20.99	43.13	123.07	-79.94	QP		
3		0.0300	25.83	20.92	46.75	117.91	-71.16	QP		
4	*	0.0500	23.37	20.90	44.27	113.50	-69.23	QP		
5		0.0694	17.50	20.83	38.33	110.67	-72.34	QP		
6		0.0922	11.90	20.84	32.74	108.22	-75.48	QP		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

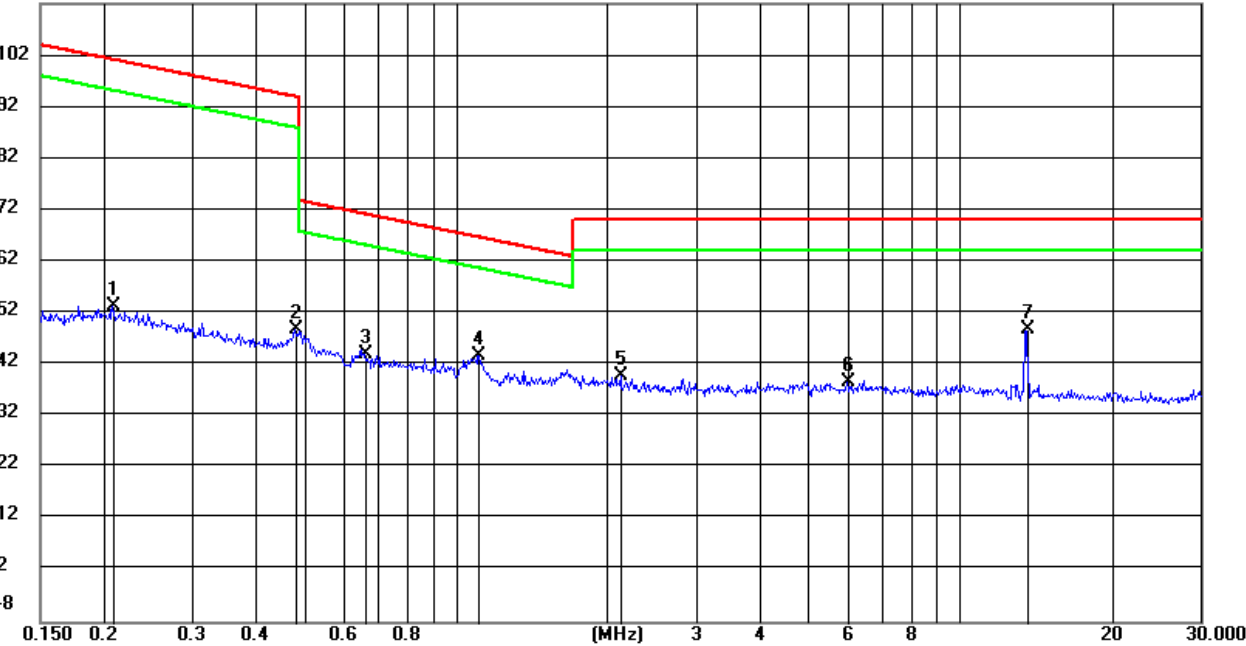
Level = Read Level + Factor,

Over Limit=Level-Limit Line.

X axis positioning

150KHz-30MHz:

112.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment					
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		0.2088	32.93	20.55	53.48	101.16	-47.68	QP		
2		0.4801	28.24	20.50	48.74	93.98	-45.24	QP		
3		0.6582	23.62	20.44	44.06	71.24	-27.18	QP		
4		1.1108	23.51	20.30	43.81	66.71	-22.90	QP		
5		2.1223	19.66	20.30	39.96	70.00	-30.04	QP		
6		5.9813	18.29	20.44	38.73	70.00	-31.27	QP		
7	*	13.5600	28.50	20.46	48.96	70.00	-21.04	peak		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

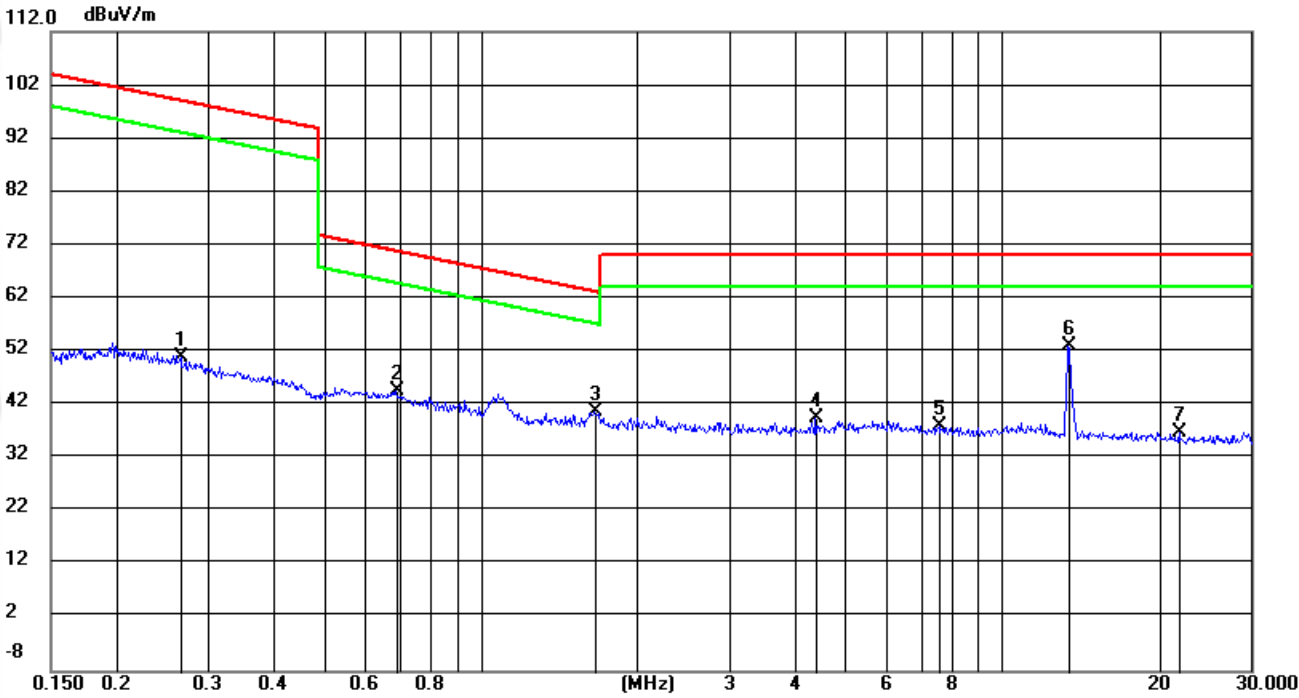
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Y axis positioning

150KHz-30MHz:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			
1		0.2666	30.39	20.50	50.89	99.05	-48.16	QP		
2		0.6882	24.14	20.42	44.56	70.86	-26.30	QP		
3		1.6611	20.54	20.30	40.84	63.23	-22.39	QP		
4		4.3859	19.16	20.37	39.53	70.00	-30.47	QP		
5		7.5697	17.43	20.50	37.93	70.00	-32.07	QP		
6	*	13.5600	32.61	20.46	53.08	70.00	-16.92	peak		
7		21.8414	16.35	20.44	36.79	70.00	-33.21	QP		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

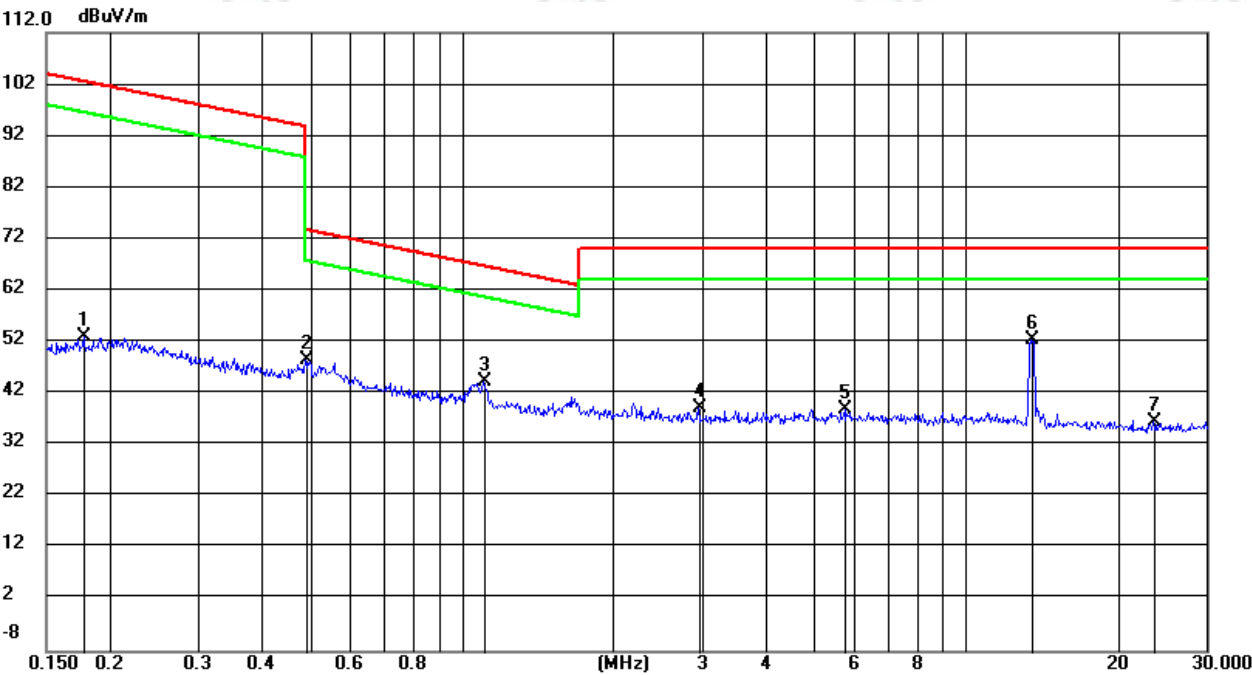
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Z axis positioning

150KHz-30MHz:



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		0.1784	32.42	20.60	53.02	102.52	-49.50	QP		
2		0.4900	28.15	20.50	48.65	73.80	-25.15	QP		
3		1.1068	23.96	20.30	44.26	66.74	-22.48	QP		
4		2.9571	18.90	20.30	39.20	70.00	-30.80	QP		
5		5.7544	18.59	20.43	39.02	70.00	-30.98	QP		
6	*	13.5600	32.09	20.46	52.55	70.00	-17.45	peak		
7		23.5168	16.10	20.47	36.57	70.00	-33.43	QP		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

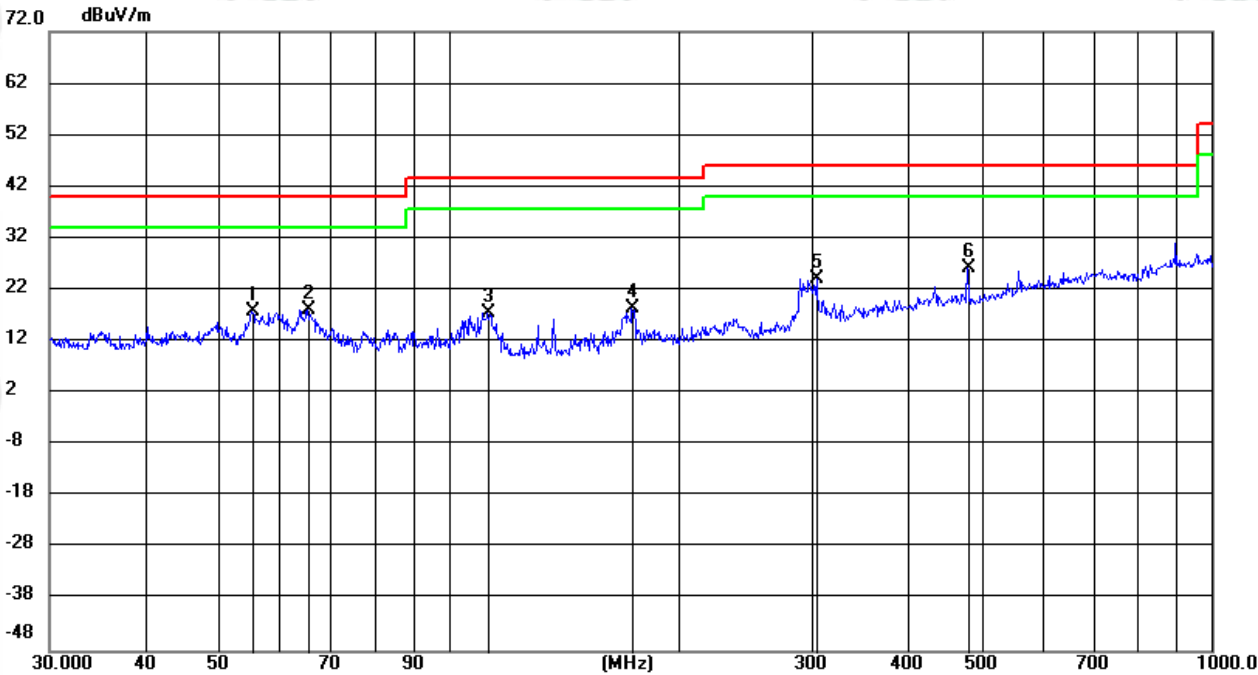
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

30MHz-1GHz

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	Comment
1		55.2982	3.75	14.04	17.79	40.00	-22.21	QP	100	68
2		65.3546	6.02	12.17	18.19	40.00	-21.81	QP	100	169
3		112.5638	4.24	13.45	17.69	43.50	-25.81	QP	100	236
4		173.9659	7.37	11.02	18.39	43.50	-25.11	QP	100	353
5		304.1830	7.67	16.46	24.13	46.00	-21.87	QP	100	270
6	*	480.0223	6.11	20.27	26.38	46.00	-19.62	QP	100	194

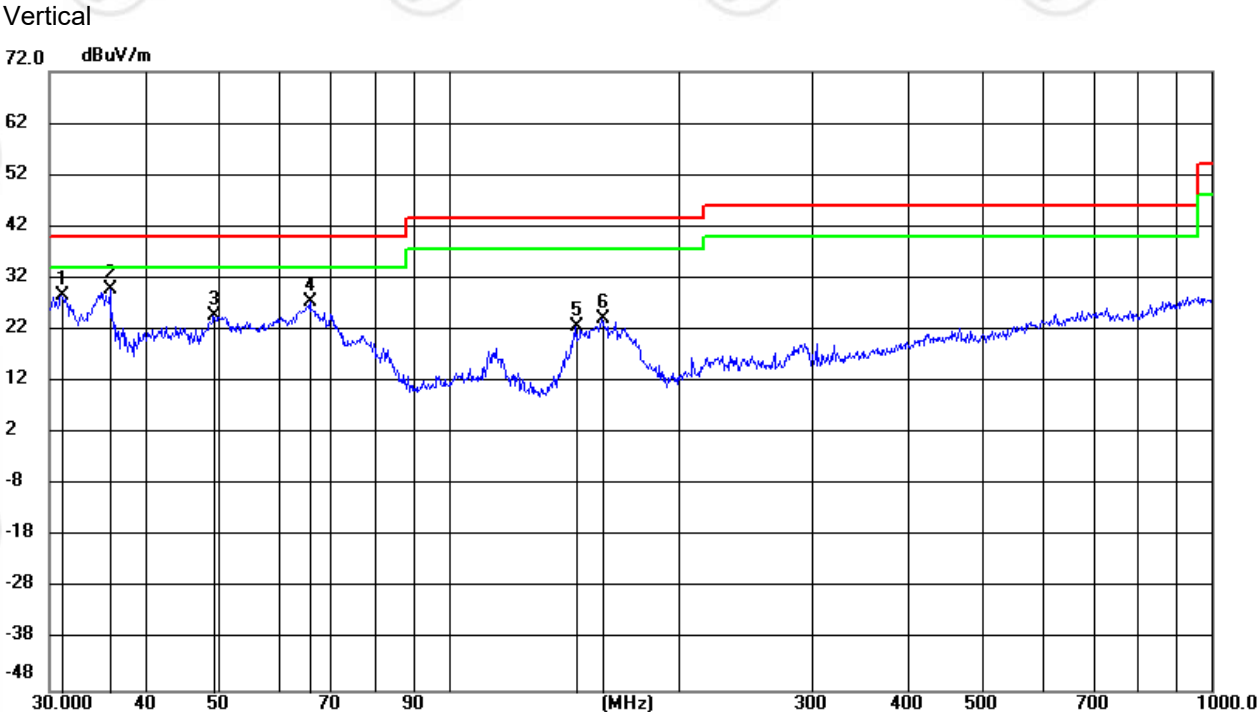
Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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		31.1033	16.09	12.55	28.64	40.00	-11.36	QP 100	108	
2	*	36.0764	16.93	12.90	29.83	40.00	-10.17	QP 100	48	
3		49.2557	10.29	14.54	24.83	40.00	-15.17	QP 200	6	
4		65.9763	15.42	12.02	27.44	40.00	-12.56	QP 100	125	
5		146.9907	12.48	10.29	22.77	43.50	-20.73	QP 100	48	
6		158.8347	13.68	10.54	24.22	43.50	-19.28	QP 100	360	

Remark:

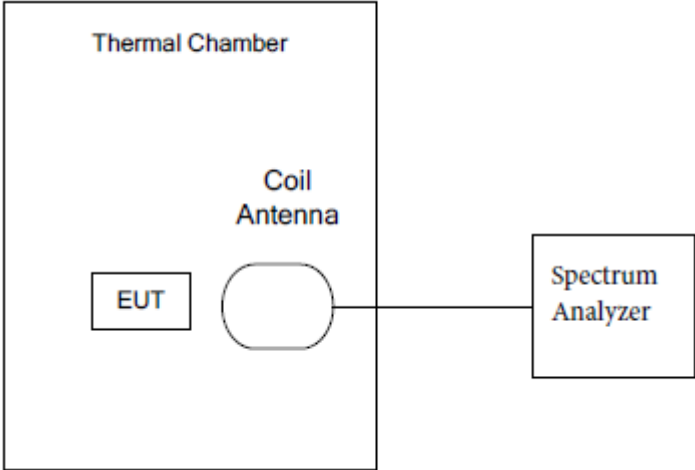
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

4.5 Frequency Stability

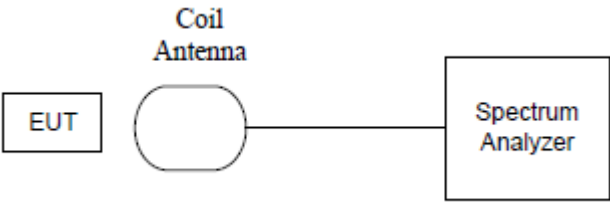
Test Requirement:	47 CFR Part 15 C Section 15.225(e)
Test Method:	ANSI C63.10: 2020
Test Setup:	 The diagram shows a Thermal Chamber containing an EUT (Equipment Under Test) and a Coil Antenna. The Coil Antenna is connected to a Spectrum Analyzer.
Frequency Range:	Operation within the band 13.110-14.010 MHz
Requirements:	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
Method of Measurement:	The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.
Test Result:	The unit does meet the FCC Part 15 C Section 15.225(e) requirements.

Test Frequency: 13.56MHz			Temperature:20°C	
Supply Voltage (V) DC	Test Result (MHz)	Deviation (kHz)	Limit ±0.01% (kHz)	Result
3.7	13.55953	-0.47	1.3560	Pass
3.3	13.55962	-0.38	1.3560	Pass
4.2	13.55964	-0.36	1.3560	Pass

Test Frequency: 13.56MHz			Normal Voltage:3.7Vdc	
Temperature (°C)	Test Result (MHz)	Deviation (kHz)	Limit ±0.01% (kHz)	Result
-20	13.55951	-0.49	1.3560	Pass
-10	13.55955	-0.45	1.3560	
0	13.55953	-0.47	1.3560	
10	13.55961	-0.39	1.3560	
20	13.55955	-0.45	1.3560	
30	13.55959	-0.41	1.3560	
40	13.55952	-0.48	1.3560	
50	13.55958	-0.42	1.3560	

Note: Deviation (kHz) = (Test Result-13.56MHz)*1000

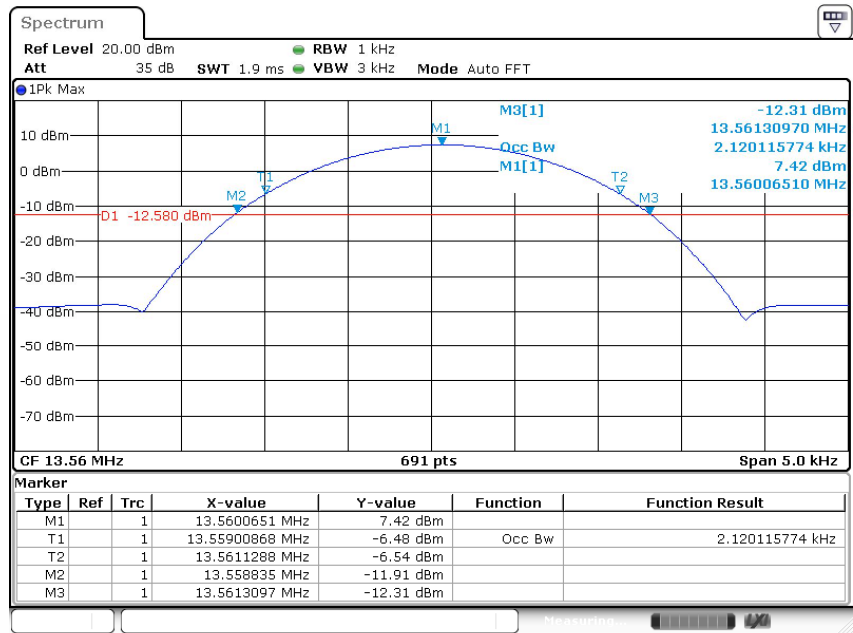
4.6 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15 C Section 15.215 (C)
Test Method:	ANSI C63.10: 2020
Test Setup:	
Frequency Range:	Operation within the band 13.110 – 14.010 MHz
Requirements:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through §15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Limit:	For 13.56 MHz the permitted frequency band is 14kHz, so the limit is 13.5488MHz to 13.5712MHz.

Test Data:

Antenna	20dB bandwidth (KHz)	Frequency Left (MHz)	Frequency Right (MHz)	Limit (MHz)	Result
1	2.4747	13.558835	13.5613097	13.5488- 13.5712	Pass

Test plot as follows:



Date: 14.AUG.2026 10:52:21

Note:
During the test, RBW has been set as close to 1% of OBW as possible.

5 PHOTOGRAPHS

Refer to Appendix Photographs of Report No. EED32S814728.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***