

FCC CERTIFICATION TEST REPORT

For
FCC ID:IKQFMT6A
IC:6955A-FMT6A

Report Reference No. : 21EFSS08109 07931
Date Sample(s) Received : 2021-8-27
Date Tested : From 2021-8-27 to 2021-10-14
Date of issue : 2021-10-14
Testing Laboratory : DongGuan ShuoXin Electronic Technology Co., Ltd.
Address : Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

Applicant's name..... : Scosche Industries Inc.
Address : 1550 Pacific Ave, Oxnard, CA 93033 USA
Manufacturer : Scosche Industries Inc.

Test specification:
Test item description : FM Transmitter

Trade Mark : --
Model/Type reference : FMT4, FMT4-1, FMT6,FMT6-1,FMT7,
FMT4-2, FMT6-2,FMT7-1
Ratings : IP:DC 3V

Responsible Engineer :


Smile Wang

Approved by:


King Wang

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TEST REPORT DECLARE

Applicant	:	Scosche Industries Inc.
Address	:	1550 Pacific Ave, Oxnard, CA 93033 USA
Equipment under Test	:	FM Transmitter
Model No	:	FMT4, FMT4-1, FMT6,FMT6-1,FMT7, FMT4-2, FMT6-2,FMT7-1
Trade Mark	:	--
Manufacturer	:	Scosche Industries Inc.
Address	:	1550 Pacific Ave, Oxnard, CA 93033 USA

Test Standard Used: FCC:FCC Rules and Regulations Part 15 Subpart C (15.239)

IC: RSS-Gen Issue 5, April 2018. RSS-210 Issue 9, August 2016

Test procedure used: ANSI C63.4: 2014, ANSI C63.10:2013

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd. is assumed of full re

1. Summary of test Standards and results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Results
20dB Bandwidth	FCC Part 15: 15.239/ RSS-210:B.9	PASS
Field Strength of Fundamental Emissions	FCC Part 15. 239/ RSS-210:B.9	PASS
Radiated Emission	FCC Part 15.209/ RSS-210:B.9	PASS
Frequency Stability	RSS-Gen § 6.11	PASS

2. General test information

2.1 Description of EUT

EUT* Name	:	FM Transmitter
Model Number	:	FMT4, FMT4-1, FMT6,FMT6-1,FMT7, FMT4-2, FMT6-2,FMT7-1
Trade Mark	:	--
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 3V
Operation frequency	:	88.1-107.9MHz
Modulation	:	FM
Antenna Type	:	built-in FPC antenna, maximum PK gain:0dBi
Date of Receipt	:	2021/8/27
Sample Type	:	Signle production

Channel List

Channels	Frequency (MHz)	Channels	Frequency (MHz)	Channels	Frequency (MHz)
1	88.1	9	90.7	17	107.3
2	88.3	10	90.9	18	107.5
3	88.5	11	106.1	19	107.7
4	88.7	12	106.3	20	107.9
5	88.9	13	106.5		
6	90.1	14	106.7		
7	90.3	15	106.9		
8	90.5	16	107.1		

2.2 Accessories of EUT

Description of Accessories	Manufacturer	Model number or Type	Other
/	/	/	/

2.3 Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number or Type	EMC Compliance	SN
/	/	/	/	/

2.4 Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25°C
Humidity range:	40-75%
Pressure range:	86-106kPa

2.5 Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048\text{kHz}$
Uncertainty for conducted RF Power	$\pm 0.32\text{dB}$

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3. 20dB Bandwidth

3.1 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	Calibrated Date
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28	2021/05/29
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A	N/A
4	Signal Generator	Levear	VP-8194D	0530228LA	N/A	N/A

3.2 Block diagram of test setup



3.3 Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.239, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

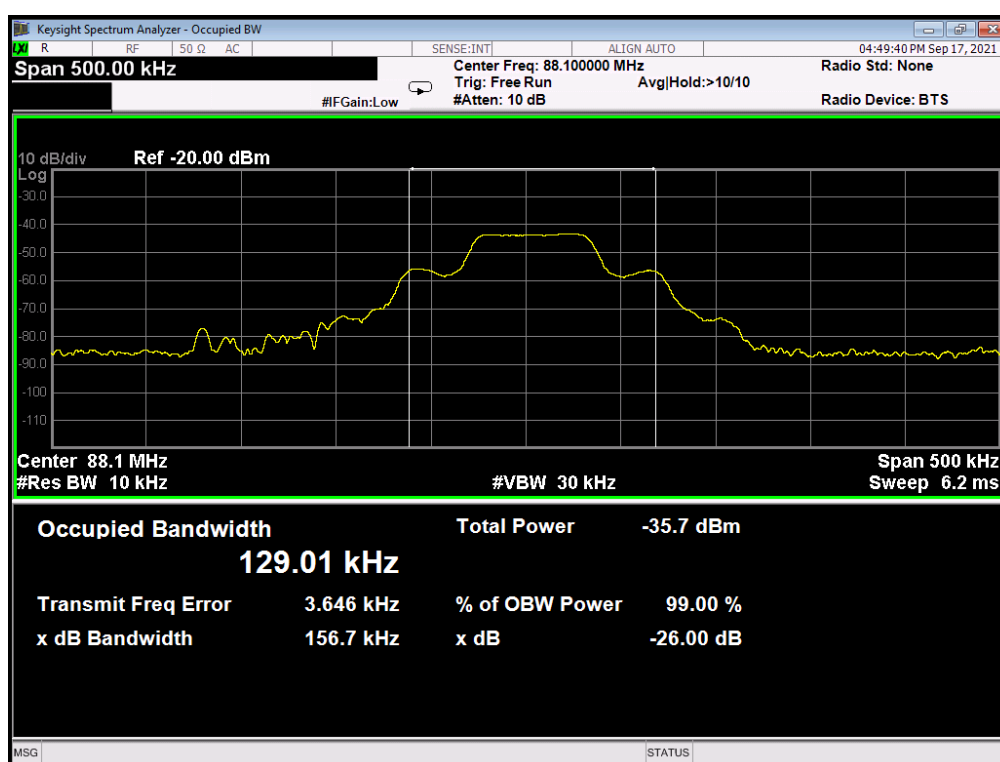
3.4 Test Procedure

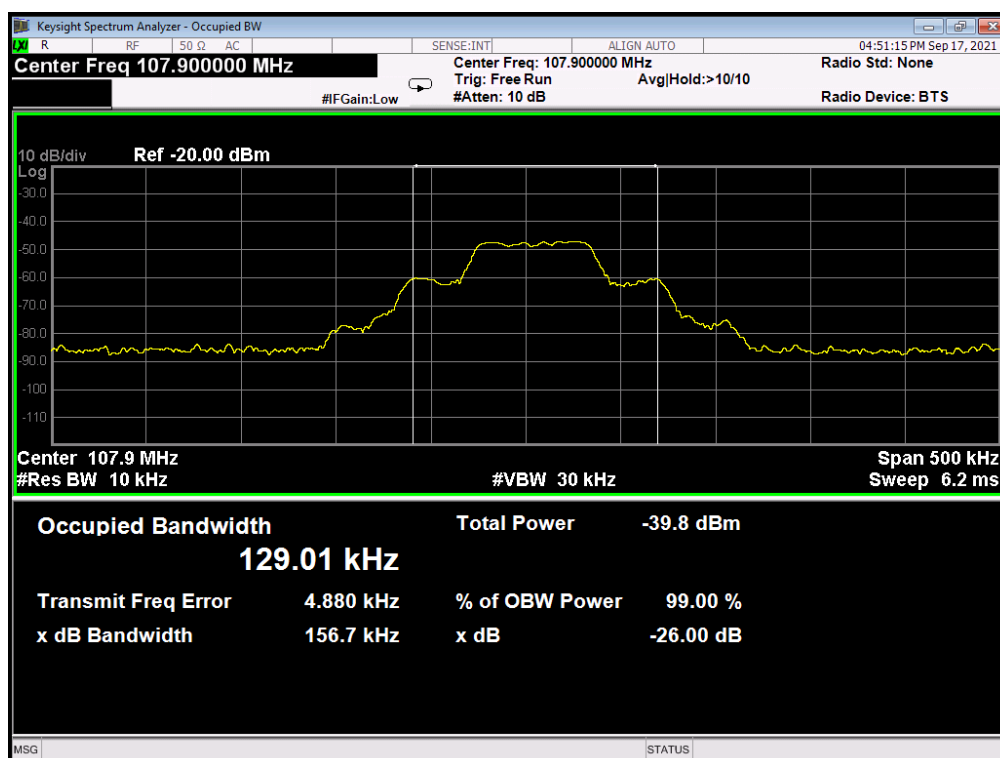
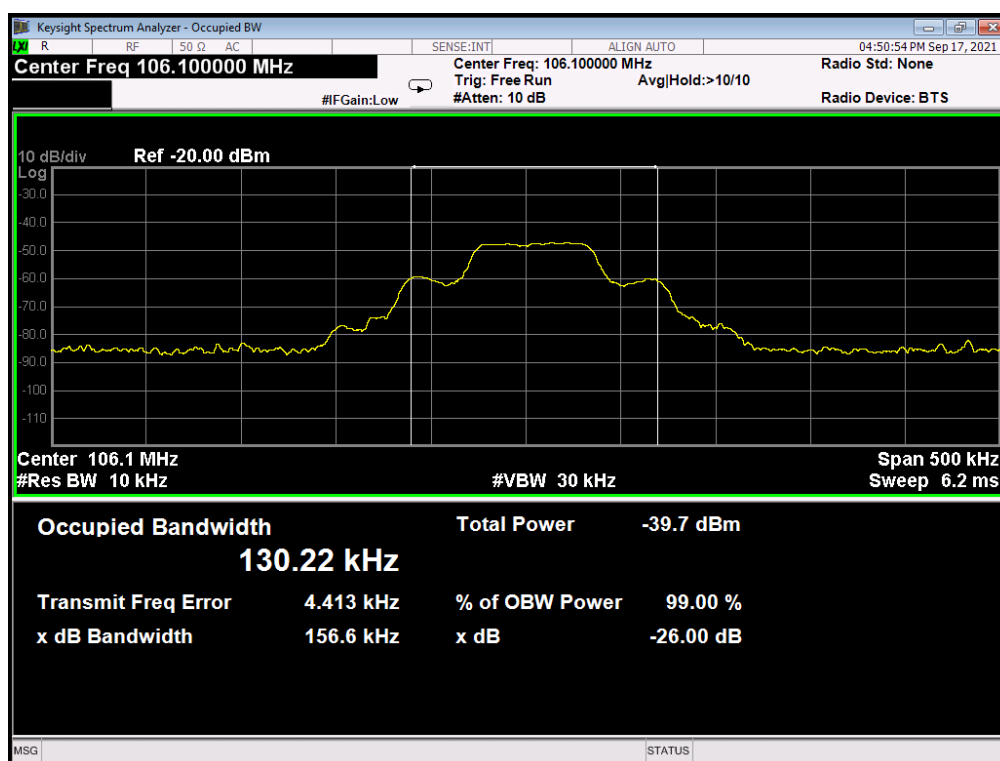
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20dB bandwidth and 99% bandwidth from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

3.5 Test Result

EUT: FM Transmitter		M/N: FMT4	
Mode	Freq (MHz)	20dB bandwidth (KHz)	Conclusion
Tx	88.1	129.01	PASS
	106.1	130.22	PASS
	107.9	129.01	PASS

3.6 Original test data





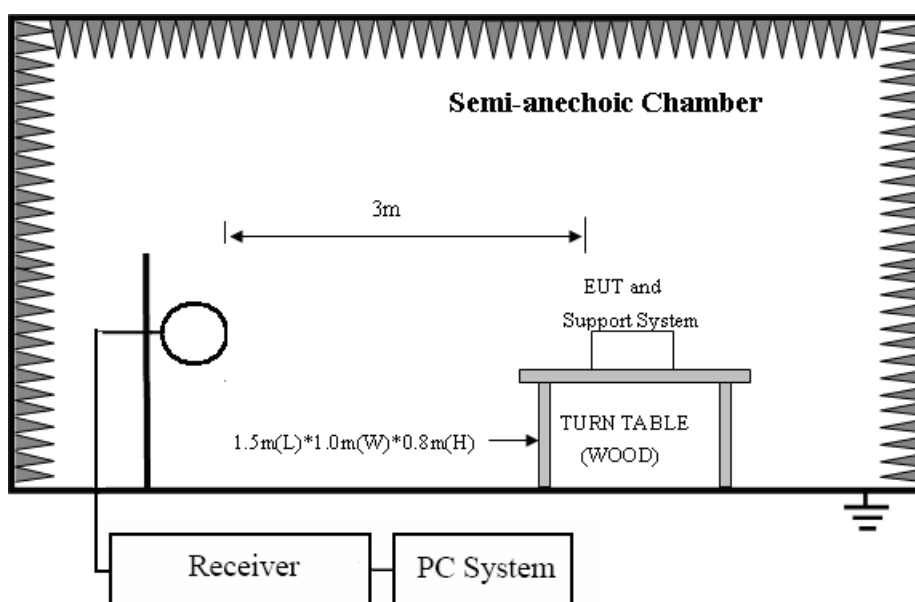
5. RADIATED EMISSION

5.1 Test equipment

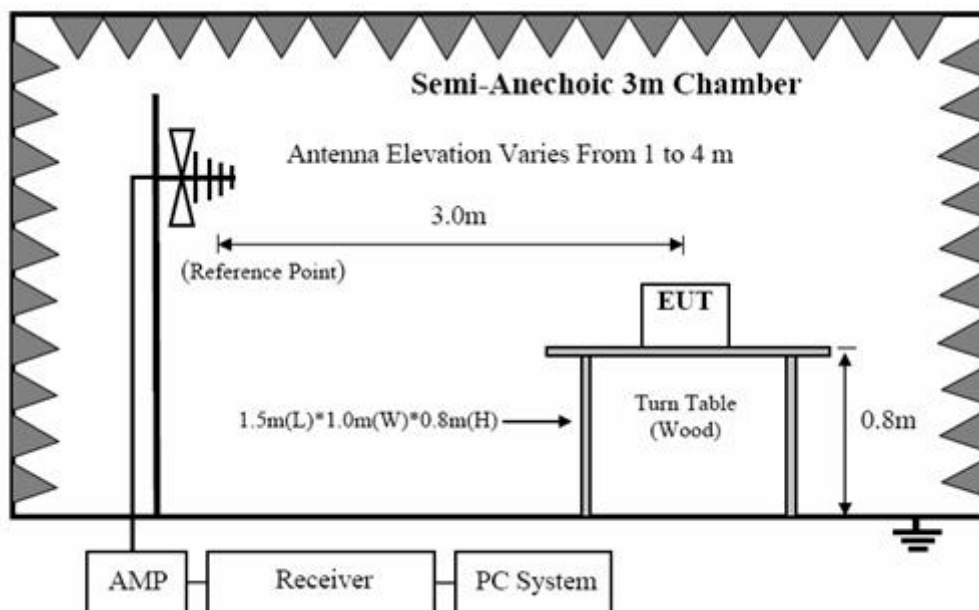
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/12/2021
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2021
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	12/14/2021
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/06/2021
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/21/2022
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/11/2021
7	PRE-AMPLIFIER	CY	EMC011830	980136	12/11/2021
8	RF Cable	R&S	Test Cable 4	4	12/11/2021
9	RF Cable	R&S	Test Cable 5	5	12/11/2021
10	RF Cable	R&S	Test Cable 9	9	04/21/2022
11	RF Cable	R&S	Test Cable 10	10	12/11/2021
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.2 Block diagram of test setup

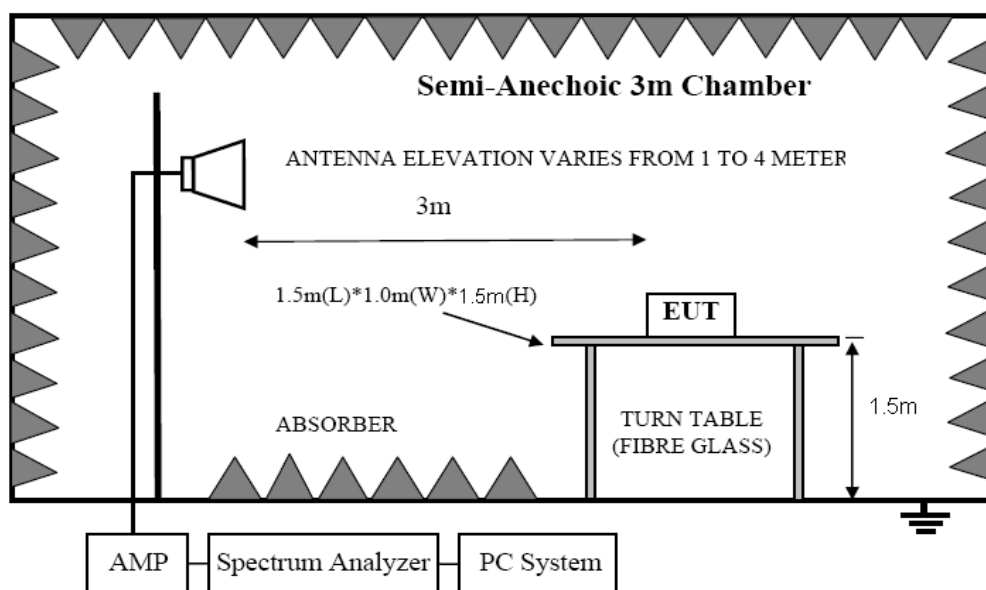
In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

5.3 Limit

FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$ at 3 m
0.009 ~ 0.49	300	$2400/F(\text{kHz})$	65.0
0.49 ~ 1.705	30	$2400/F(\text{kHz})$	45.0
1.705 ~ 30	30	30	69.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

5.3.4 Limit for this EUT

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4:2014. The specification used was the FCC 15.209.

5.4 Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Change power supply range from 85% to 115% of the rated supply voltage
 - (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so below final test was performed with frequency range from 30MHz to 18GHz.
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) For emissions from 30MHz to 1GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 KHz.

5.5 Test result

PASS. (See below detailed test result)

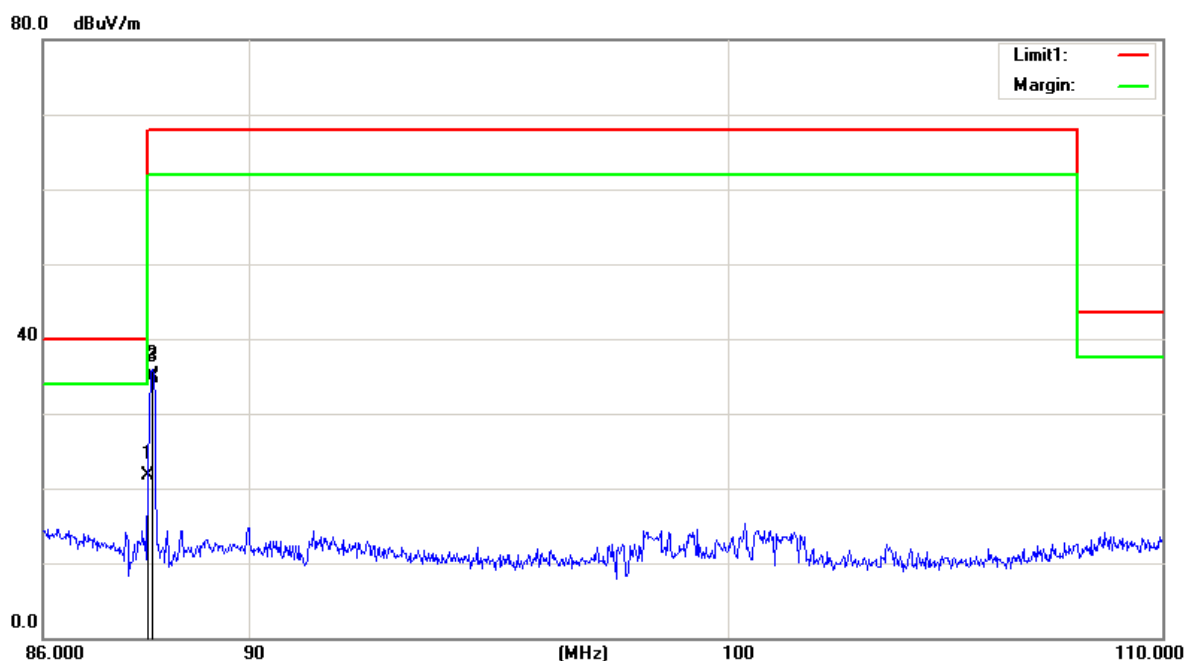
According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C and section 15.205, 15.209 and 15.239, Vertical and Horizontal mode all have been tested, Horizontal mode is the worse case(new battery is used during all test) .with the worst margin reading of:

Radiated Emission Test Result

Test Site	: 3m Chamber		
EUT	: FM Transmitter	Model No.:	: FMT7-1
Power Supply	: DC 3V	Test Mode	: Keeping TX
Condition	: Temp:24.5'C,Humi:55%	Antenna/Distance	: 3m

Field Strength of Fundamental Emissions

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	88.1MHz		

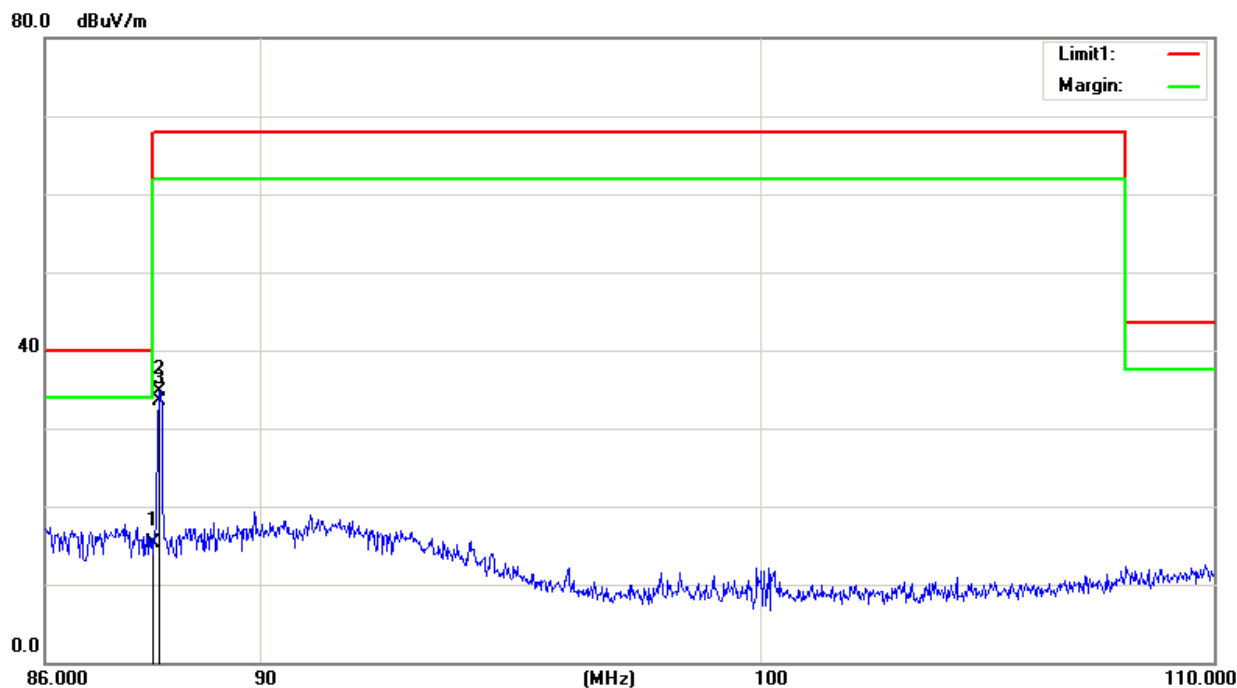


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	88.0000	36.84	-15.22	21.62	40.00	-18.38	QP
2	88.1120	50.35	-15.22	35.13	68.00	-32.87	peak
3	88.1120	49.87	-15.22	34.65	68.00	-33.35	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	88.1MHz		

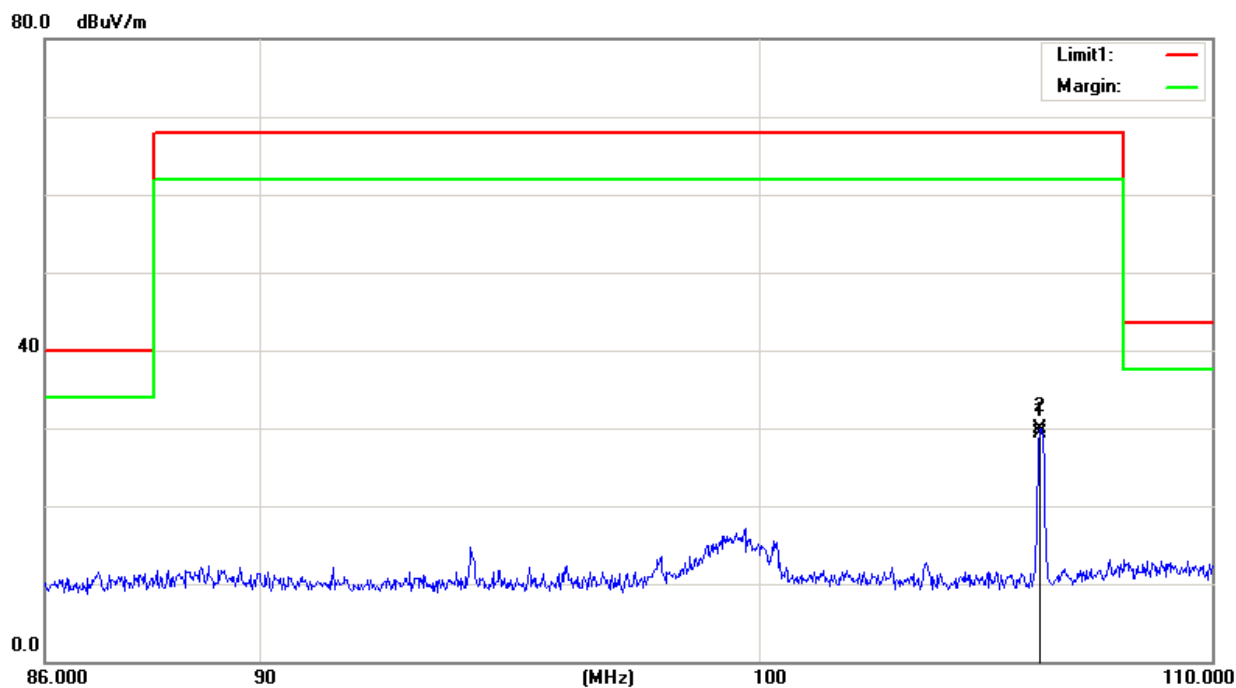


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	88.0000	32.55	-17.22	15.33	40.00	-24.67	QP
2	88.1120	51.88	-17.22	34.66	68.00	-33.34	peak
3	88.1120	50.80	-17.22	33.58	68.00	-34.42	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	106.1MHz		

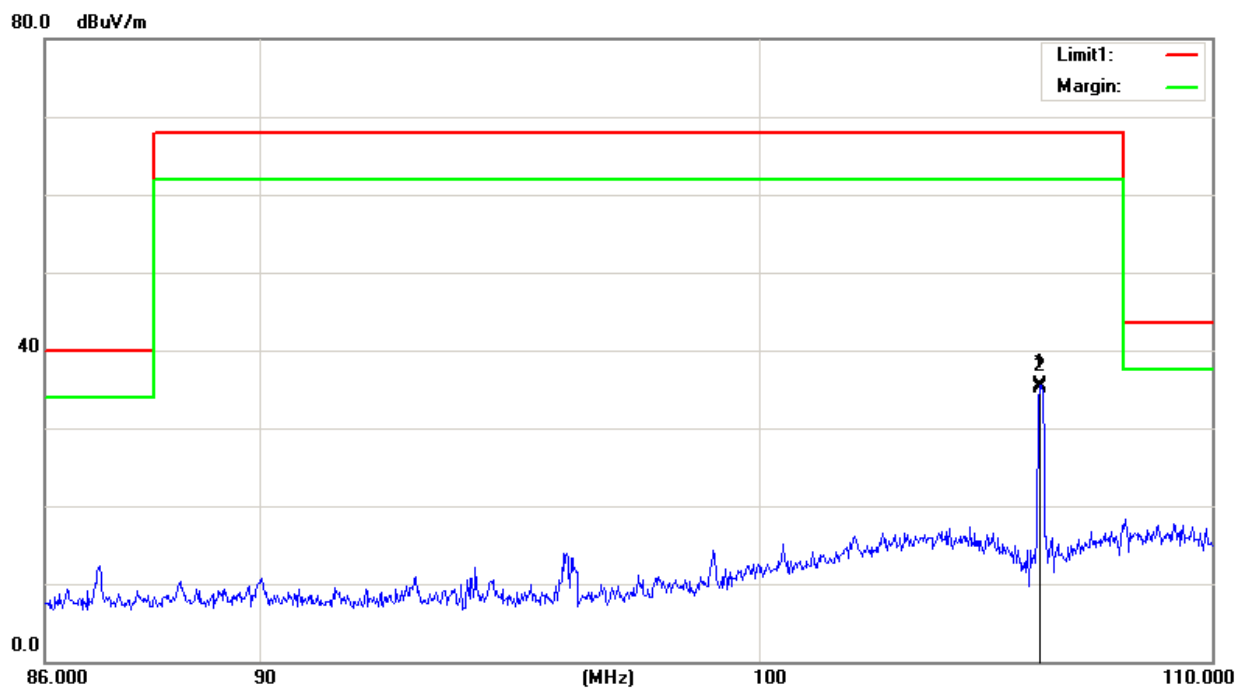


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	106.1020	43.90	-14.66	29.24	68.00	-38.76	AVG
2	106.1120	44.56	-14.66	29.90	68.00	-38.10	peak

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	106.1MHz		

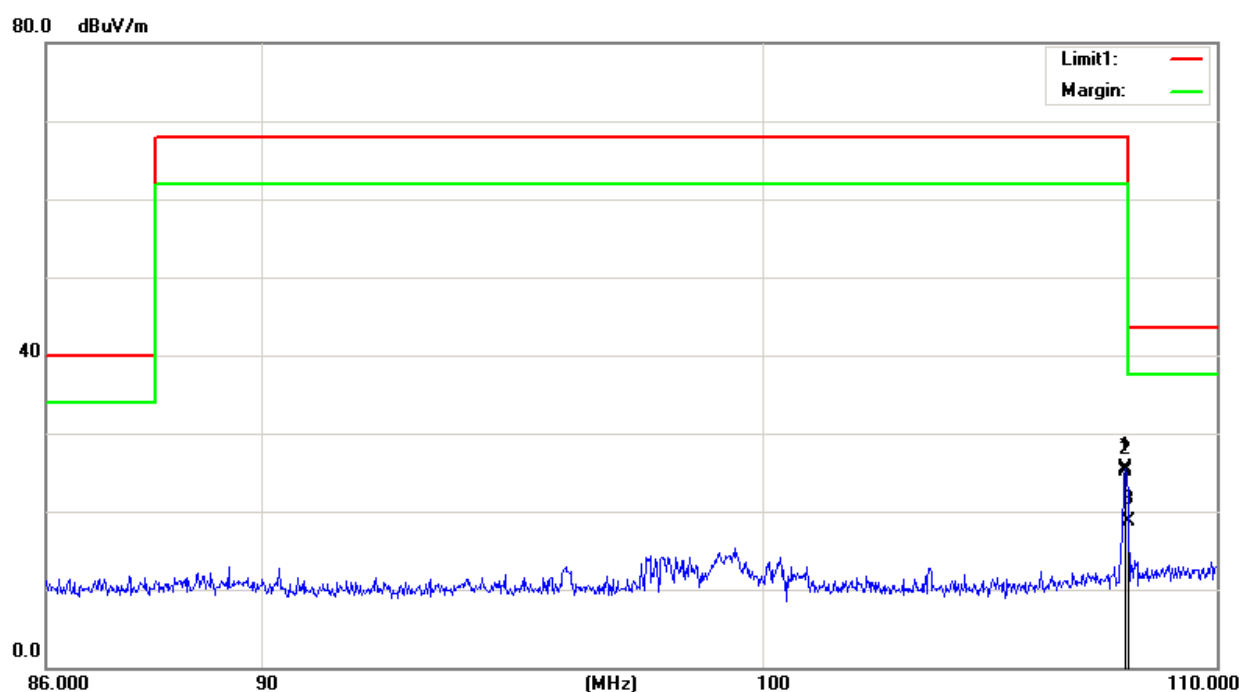


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	106.1120	51.00	-15.44	35.56	68.00	-32.44	peak
2	106.1120	50.47	-15.44	35.03	68.00	-32.97	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	107.9MHz		

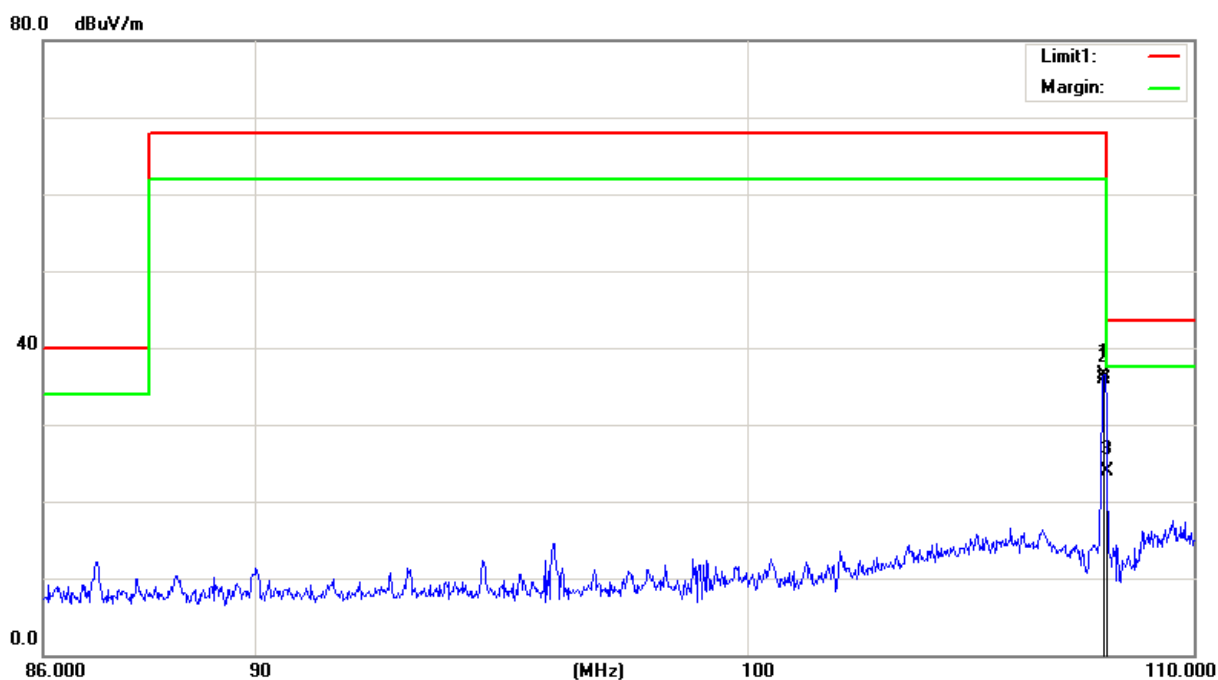


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	107.9120	39.83	-14.42	25.41	68.00	-42.59	peak
2	107.9120	39.45	-14.42	25.03	68.00	-42.97	AVG
3	108.0000	33.17	-14.41	18.76	43.50	-24.74	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2021-10-14	Test By:	
Standard:	(RE)FCC PART 15.239 30M-1G		
Test Mode:	TX		
Note:	107.9MHz		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	107.9120	51.42	-14.84	36.58	68.00	-31.42	peak
2	107.9120	50.67	-14.84	35.83	68.00	-32.17	AVG
3	108.0000	38.79	-14.81	23.98	43.50	-19.52	QP

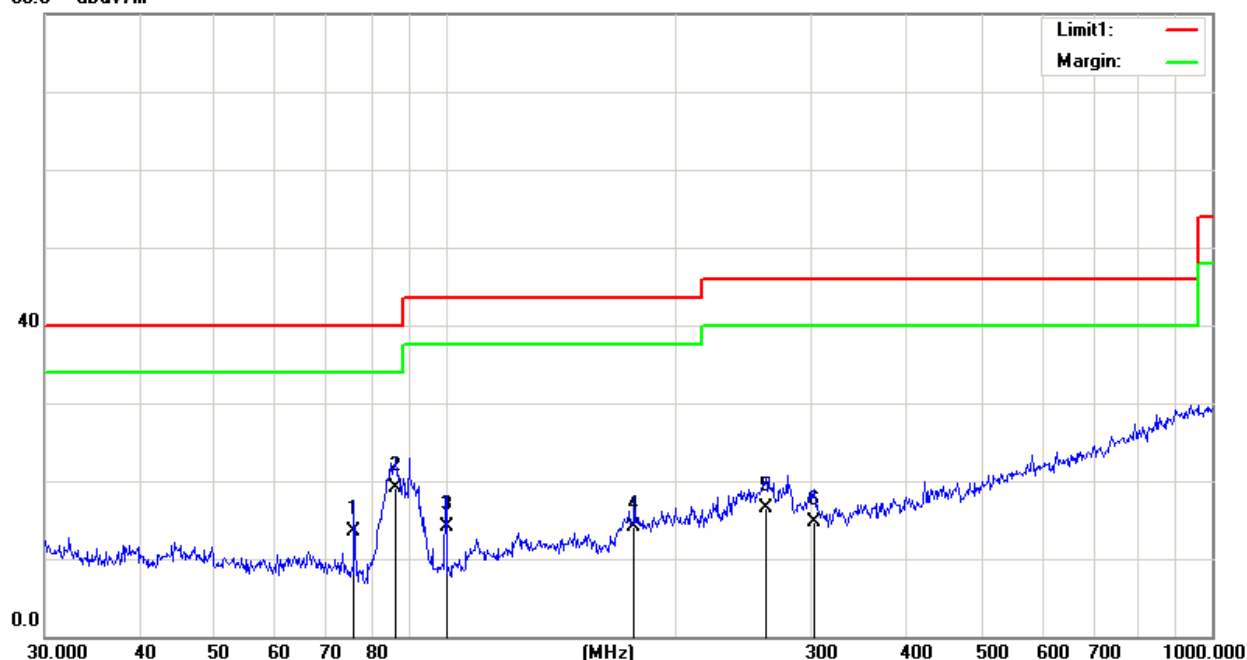
The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

30M-1G

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2019-1-17	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	88.1M		

80.0 dBuV/m

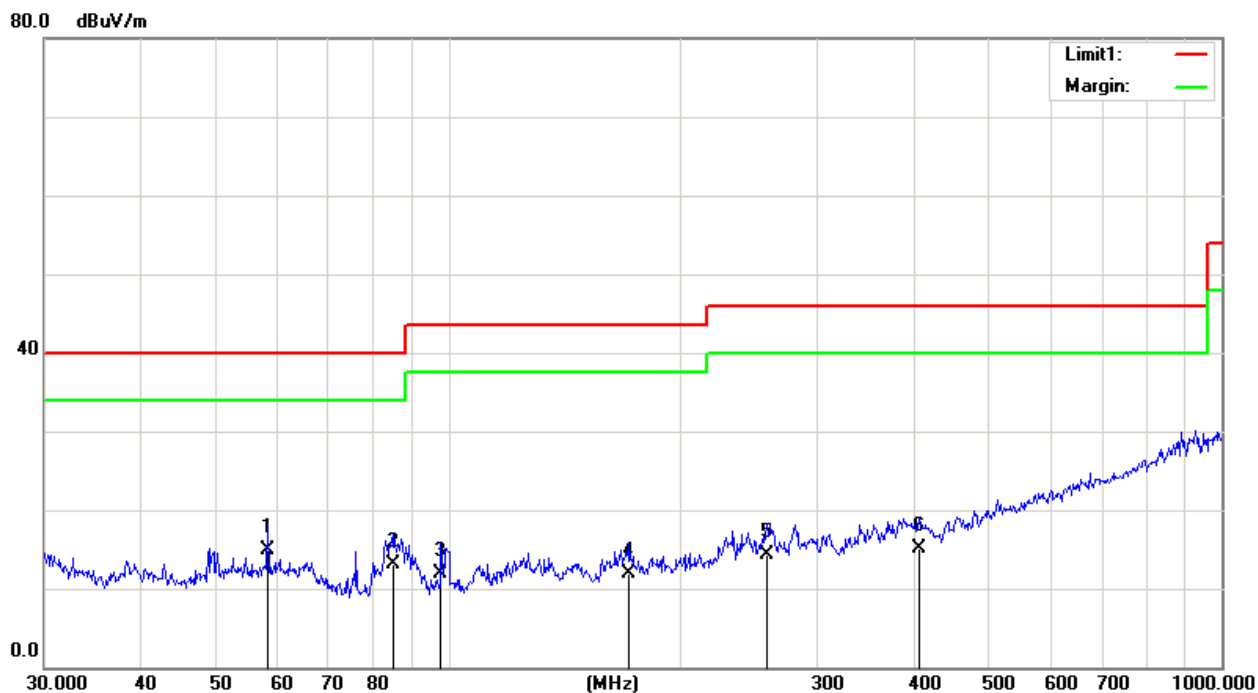


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	75.9771	30.45	-16.86	13.59	40.00	-26.41	QP
2	86.2001	36.31	-17.30	19.01	40.00	-20.99	QP
3	100.2286	30.55	-16.42	14.13	43.50	-29.37	QP
4	176.2684	23.63	-9.52	14.11	43.50	-29.39	QP
5	261.9753	21.33	-4.84	16.49	46.00	-29.51	QP
6	302.4812	21.52	-6.72	14.80	46.00	-31.20	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-9-8	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	88.1M		

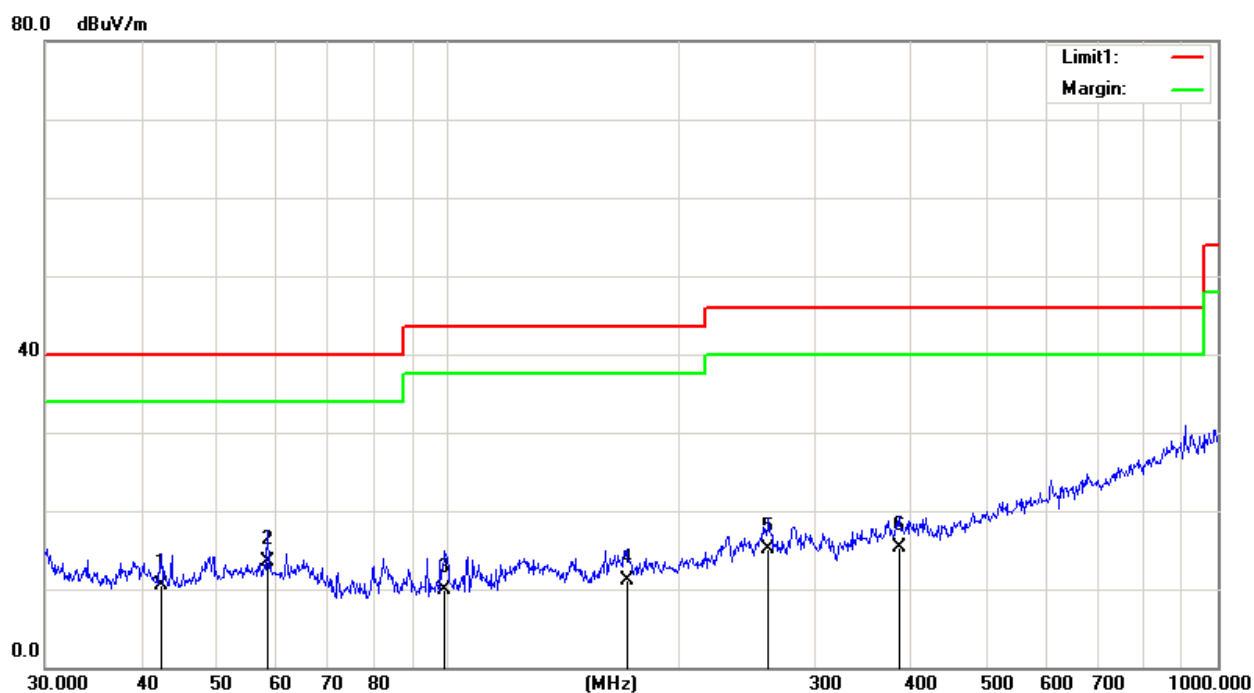


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	58.4074	27.82	-12.84	14.98	40.00	-25.02	QP
2	84.9993	28.48	-15.35	13.13	40.00	-26.87	QP
3	97.7980	26.52	-14.60	11.92	43.50	-31.58	QP
4	171.3925	22.40	-10.51	11.89	43.50	-31.61	QP
5	258.3263	20.84	-6.62	14.22	46.00	-31.78	QP
6	406.0880	21.59	-6.54	15.05	46.00	-30.95	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-9-8	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	106.1M		



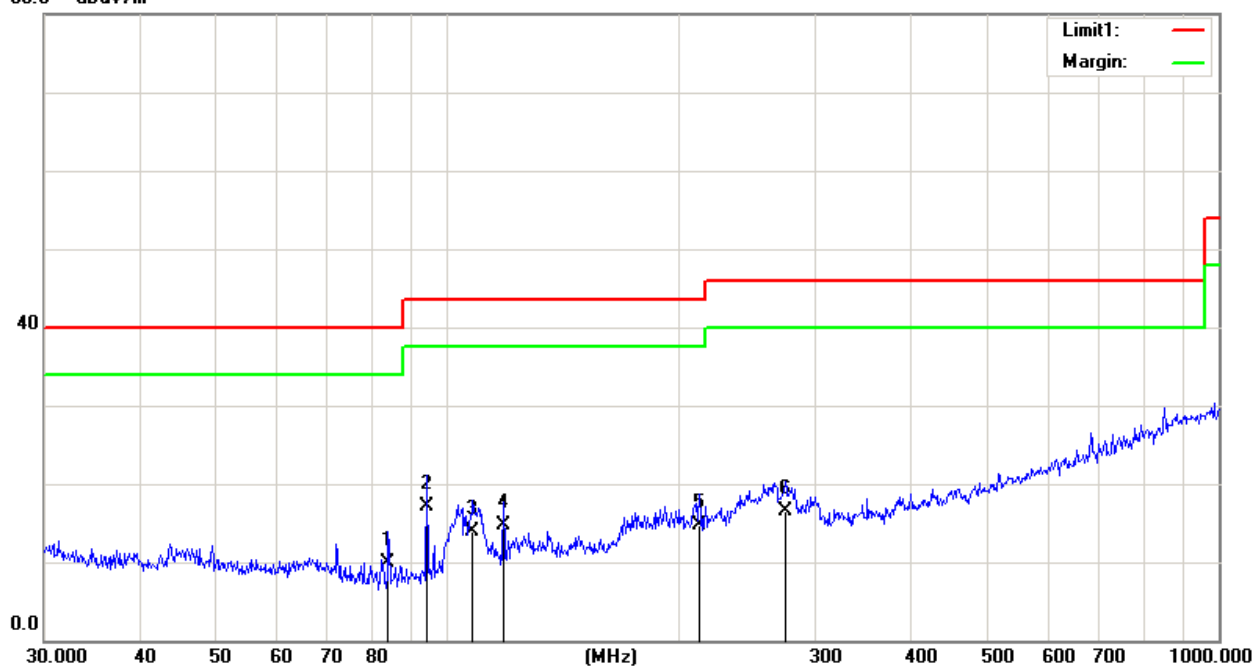
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	42.4508	23.93	-13.41	10.52	40.00	-29.48	QP
2	58.4074	26.34	-12.84	13.50	40.00	-26.50	QP
3	99.1796	24.43	-14.50	9.93	43.50	-33.57	QP
4	170.7925	21.46	-10.37	11.09	43.50	-32.41	QP
5	261.0582	21.65	-6.50	15.15	46.00	-30.85	QP
6	385.2805	21.32	-6.08	15.24	46.00	-30.76	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2021-9-8	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	106.1M		

80.0 dBuV/m

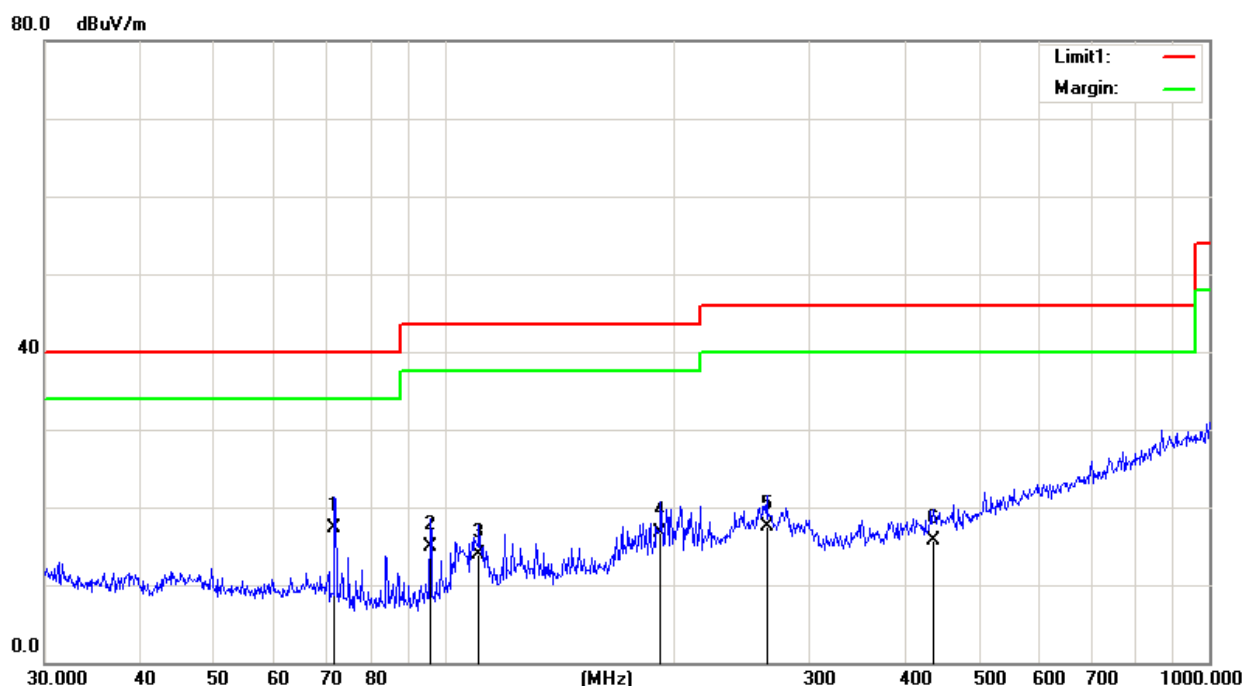


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	83.8156	27.30	-17.39	9.91	40.00	-30.09	QP
2	94.0978	33.89	-16.86	17.03	43.50	-26.47	QP
3	107.8876	28.68	-14.85	13.83	43.50	-29.67	QP
4	118.1860	28.88	-14.11	14.77	43.50	-28.73	QP
5	212.2693	23.90	-9.13	14.77	43.50	-28.73	QP
6	274.1938	22.06	-5.46	16.60	46.00	-29.40	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Horizontal	Test Result:	Pass
Test Time:	2021-9-8	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	107.9M		

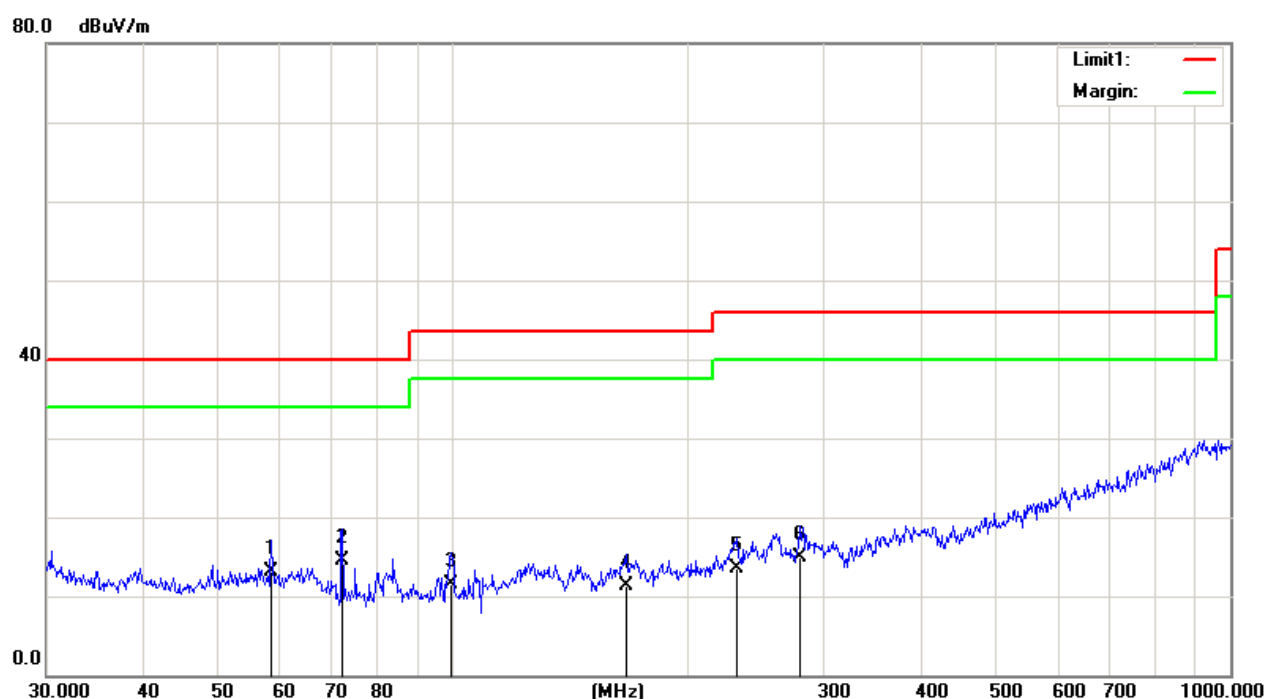


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	71.8319	33.37	-16.15	17.22	40.00	-22.78	QP
2	95.7622	31.69	-16.74	14.95	43.50	-28.55	QP
3	110.9570	28.09	-14.23	13.86	43.50	-29.64	QP
4	191.7450	26.26	-9.49	16.77	43.50	-26.73	QP
5	263.8190	22.35	-4.76	17.59	46.00	-28.41	QP
6	435.5898	22.39	-6.66	15.73	46.00	-30.27	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

EUT:	FM Transmitter	Model No.:	FMT7-1
Temperature:	24	Relative Humidity:	55%
Distance:	3m	Test Power:	DC 3V
Polarization:	Vertical	Test Result:	Pass
Test Time:	2021-9-8	Test By:	
Standard:	(RE)FCC PART 15 class B 3m		
Test Mode:	TX		
Note:	107.9M		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	58.4074	26.00	-12.84	13.16	40.00	-26.84	QP
2	72.0841	29.21	-14.77	14.44	40.00	-25.56	QP
3	99.5279	25.97	-14.49	11.48	43.50	-32.02	QP
4	167.2366	21.86	-10.55	11.31	43.50	-32.19	QP
5	231.7178	22.00	-8.41	13.59	46.00	-32.41	QP
6	279.0436	21.58	-6.66	14.92	46.00	-31.08	QP

The test result is calculated as the following:

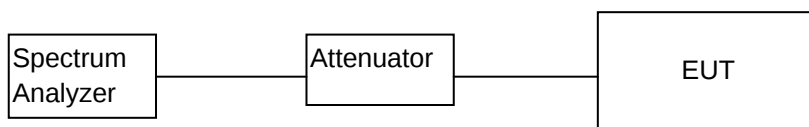
- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss-Amplifier Factor
- (3) Margin = Result - Limit

6 FREQUENCY STABILITY

6.1 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Due.	Cal. Interval
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	N/A	1 Year
4	Temperature conditioning	Guan Jian.HTH1000	-20-130℃	GJ1000-10D001	N/A	1.Year
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A	1.Year

6.2 Block diagram of test setup



6.3 Test Result

Voltage	Temperature vs. Frequency Stability	
	Temperature	Measurement Frequency (MHz)
3V	(°C)	88.1
	-20	88.105
	20	88.104
	50	88.104
2.6V	20	88.105
	Max. Deviation (MHz)	0.005
	Max. Deviation (ppm)	56.75

7. Antenna Requirements

7.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.2. Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.