

TEST REPORT

FCC ID	2AUCLLD-1000-1	
Test Report No	TCT210706E051	
Date of issue	Jul. 16, 2021	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name	FX Technology Limited	
Address	2 Stone Buildings, Lincoln's Inn, London WC2A 3TH, United Kingdom	
Manufacturer's name ...	Shenzhen Eternity Technology Co., Ltd	
Address	Building A2, YingZhan Industrial Park, LongTian Street, PingShan, ShenZhen, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	
Test item description	Router	
Trade Mark	Linxdot	
Model/Type reference	LD-1000	
Rating(s)	Adapter Information: Model: TPQ-233A120100UW01 Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 12.0V, 1.0A	
Date of receipt of test item	Jul. 06, 2021	
Date (s) of performance of test	See dates for each test case	
Tested by (+signature) ...	Brave Zeng	<i>Brave Zeng</i>
Check by (+signature)	Beryl Zhao	<i>Beryl Zhao</i>
Approved by (+signature) :	Tomsin	<i>Tomsin</i>

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	3
1.3. Operation Frequency	3
2. Test Result Summary	4
3. General Information.....	5
3.1. Test environment and mode.....	5
3.2. Description of Support Units.....	5
4. Facilities and Accreditations	6
4.1. Facilities	6
4.2. Location	6
4.3. Measurement Uncertainty.....	6
5. Test Results and Measurement Data	7
5.1. Antenna requirement	7
5.2. Conducted Emission.....	8
5.3. Conducted Output Power	12
5.4. Emission Bandwidth	15
5.5. Power Spectral Density.....	18
5.6. Conducted Band Edge and Spurious Emission Measurement	21
5.7. Radiated Spurious Emission Measurement.....	24
Appendix A: Photographs of Test Setup	
Appendix B: Photographs of EUT	

1. General Product Information

1.1. EUT description

Test item description	Router
Model/Type reference.....	LD-1000
Sample Number.....	TCT210706E034-0101
Operation Frequency	500KHz: 923.3MHz~927.5MHz
Number of Channel	8 for DTS
Modulation Type	LoRa
Modulation Technology	Hybrid system
Antenna Type.....	External Antenna
Antenna Gain.....	3dBi
Rating(s).....	Adapter Information: Model: TPQ-233A120100UW01 Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 12.0V, 1.0A
Remark.....	/

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Operation Frequency

500KHz for DTS

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	923.3MHz	2	924.5MHz	4	925.7MHz	6	926.9MHz
1	923.9MHz	3	925.1MHz	5	926.3MHz	7	927.5MHz

Remark: Channel 0&7 have been tested

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. After pre-testing the two earphones, the two earphones are left and right ears respectively; we found that the left earphone is the worst case, so the results are recorded in this report.

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25.0 °C	25.0 °C
Humidity:	55 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations	
<p>The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.</p>		

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098
SHENZHEN TONGCE TESTING LAB
Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1
SHENZHEN TONGCE TESTING LAB
CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park, Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

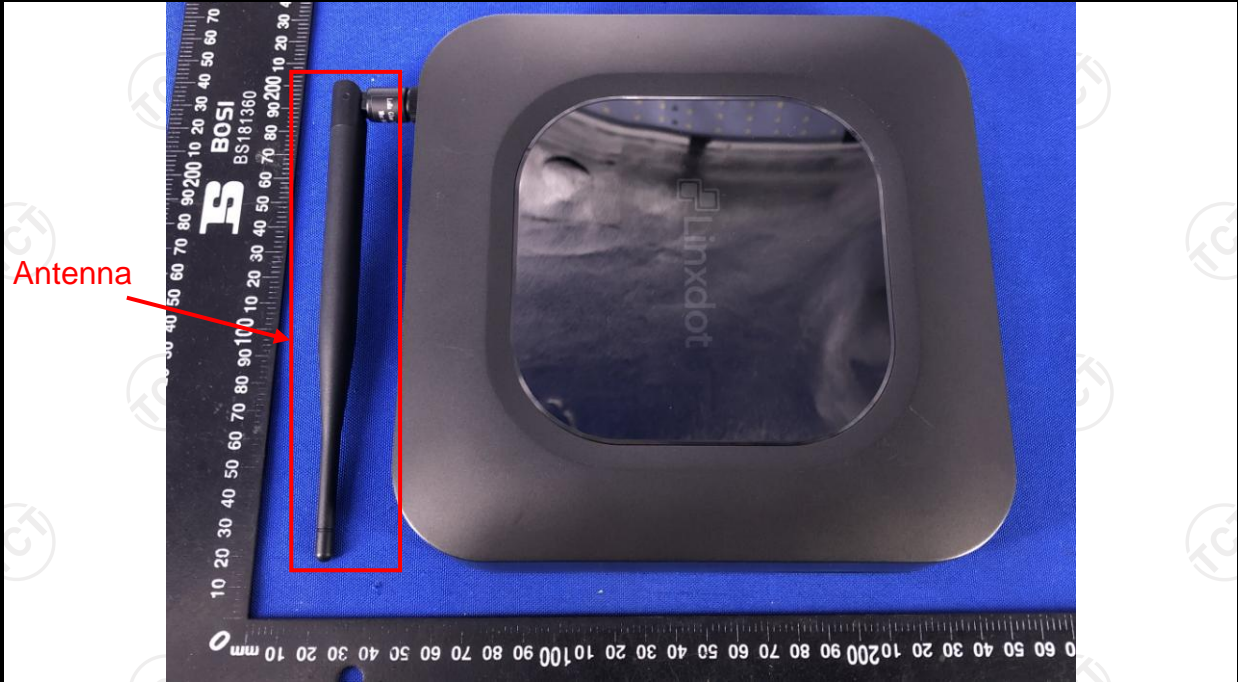
No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. Antenna requirement

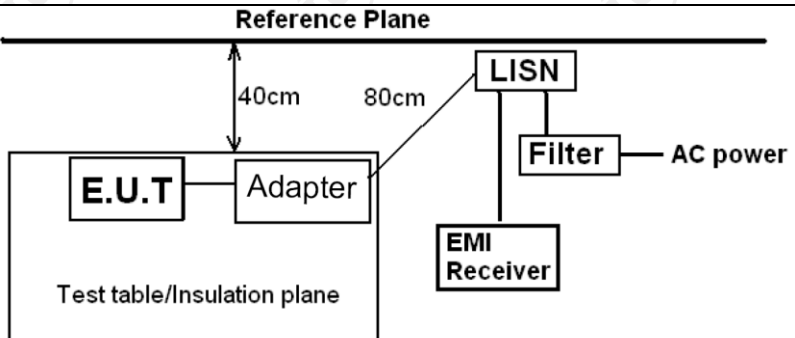
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	

E.U.T Antenna:
The Bluetooth antenna is external antenna which permanently attached, and the best case gain of the antenna is 3dBi.



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	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
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													
Test Setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. 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: 2013 on conducted measurement. 														
Test Result:	PASS														

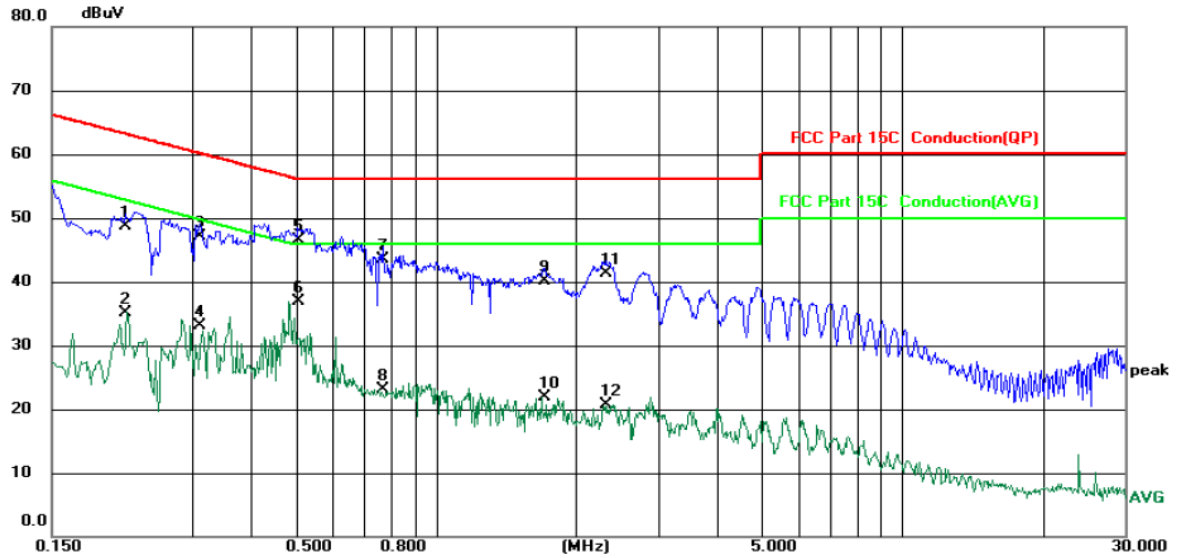
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021
Line-5	TCT	CE-05	N/A	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



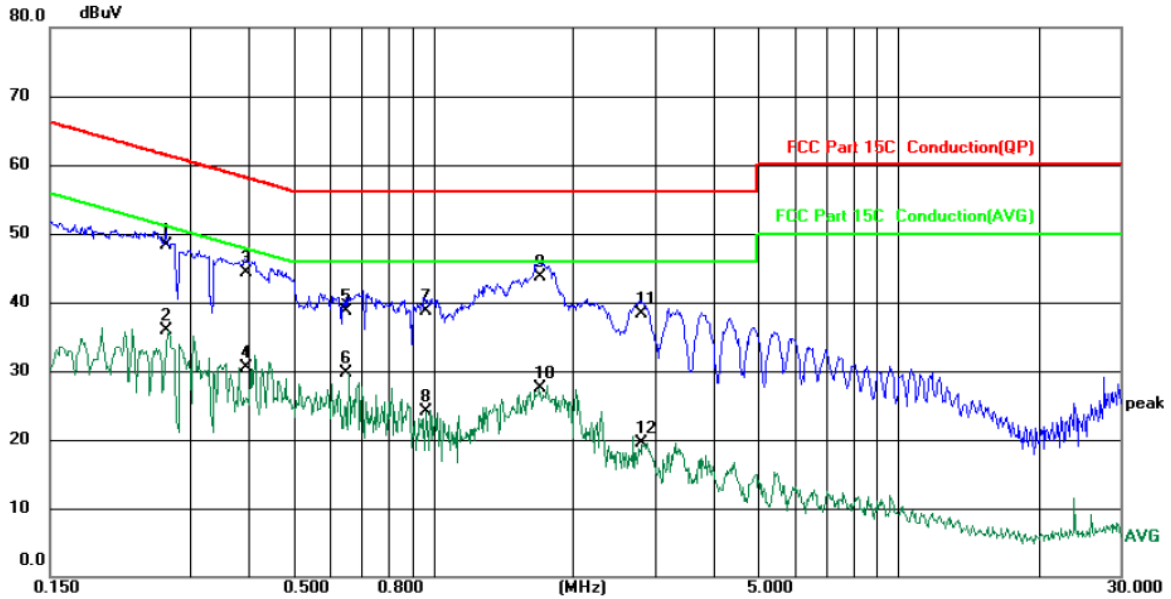
Site Phase: **L1** Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Humidity: 55 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2149	39.22	9.39	48.61	63.01	-14.40	QP	
2		0.2149	25.81	9.39	35.20	53.01	-17.81	AVG	
3		0.3113	37.84	9.34	47.18	59.94	-12.76	QP	
4		0.3113	23.68	9.34	33.02	49.94	-16.92	AVG	
5		0.5060	37.28	9.25	46.53	56.00	-9.47	QP	
6	*	0.5060	27.65	9.25	36.90	46.00	-9.10	AVG	
7		0.7700	34.13	9.28	43.41	56.00	-12.59	QP	
8		0.7700	13.91	9.28	23.19	46.00	-22.81	AVG	
9		1.7016	30.64	9.47	40.11	56.00	-15.89	QP	
10		1.7016	12.48	9.47	21.95	46.00	-24.05	AVG	
11		2.3179	31.74	9.52	41.26	56.00	-14.74	QP	
12		2.3179	11.23	9.52	20.75	46.00	-25.25	AVG	

Note:

- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = LISN factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak
- AVG =average
- * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site: _____ Phase: **N** Temperature: 25 (C)
 Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Humidity: 55 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2671	38.92	9.37	48.29	61.21	-12.92	QP	
2		0.2671	26.46	9.37	35.83	51.21	-15.38	AVG	
3		0.3940	34.91	9.30	44.21	57.98	-13.77	QP	
4		0.3940	21.15	9.30	30.45	47.98	-17.53	AVG	
5		0.6500	29.51	9.26	38.77	56.00	-17.23	QP	
6		0.6500	20.52	9.26	29.78	46.00	-16.22	AVG	
7		0.9616	29.39	9.38	38.77	56.00	-17.23	QP	
8		0.9616	14.64	9.38	24.02	46.00	-21.98	AVG	
9	*	1.6900	34.31	9.43	43.74	56.00	-12.26	QP	
10		1.6900	18.01	9.43	27.44	46.00	-18.56	AVG	
11		2.7860	28.75	9.47	38.22	56.00	-17.78	QP	
12		2.7860	10.04	9.47	19.51	46.00	-26.49	AVG	

Note1:


- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = LISN factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak AVG =average
- * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Note2:

Measurements were conducted in all three channels (high, middle, low) and the worst case Mode (Lowest channel) was submitted only.

5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Refer to item 3.1
Test Procedure:	<p>Set spectrum analyzer as following:</p> <ol style="list-style-type: none"> 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.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

5.3.3. Test Data

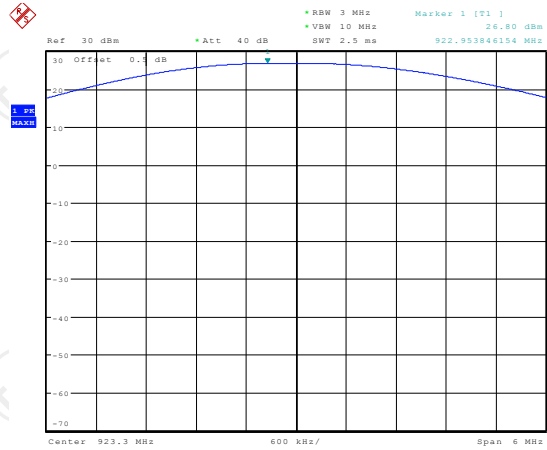
For DTS

500KHz			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	26.80	30.00	PASS
Highest	26.79	30.00	PASS

Test plots as follows:

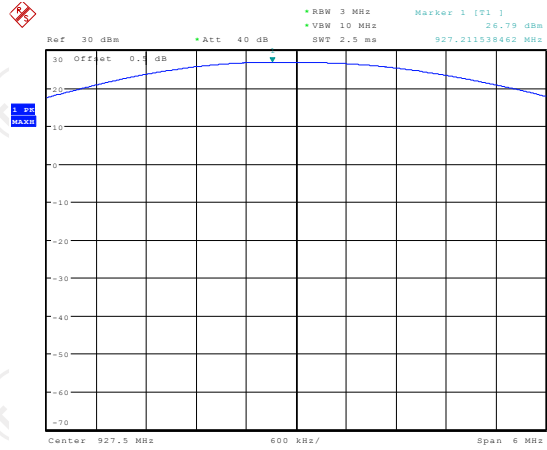


Lowest channel



Date: 15.JUL.2021 11:58:13


Highest channel



Date: 9.JUL.2021 22:11:31

5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	For digital modulation techniques may operate in the 902-928 MHz: The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Refer to item 3.1
Test Procedure:	<ol style="list-style-type: none"> 1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 3. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

5.4.3. Test data

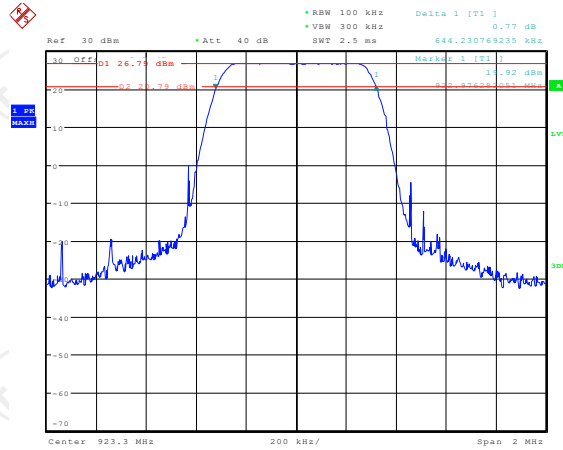
For DTS:

Test channel	6dB Emission Bandwidth (kHz)		
	500KHz	Limit	Result
Lowest	644.23	>500k	PASS
Highest	679.49	>500k	

Test plots as follows:

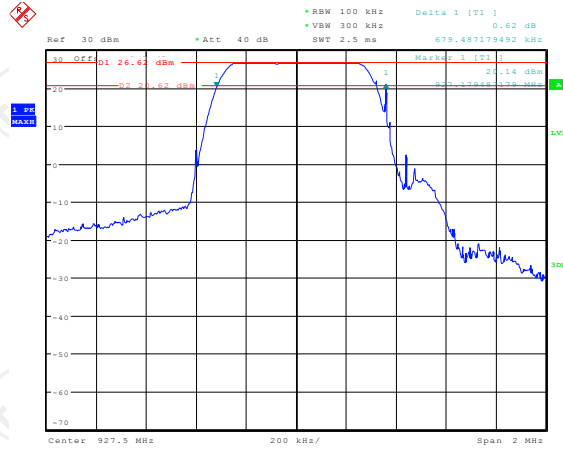


Lowest channel



Date: 15.JUL.2021 12:01:10

Highest channel



Date: 9.JUL.2021 22:12:48

5.5.3. Test data

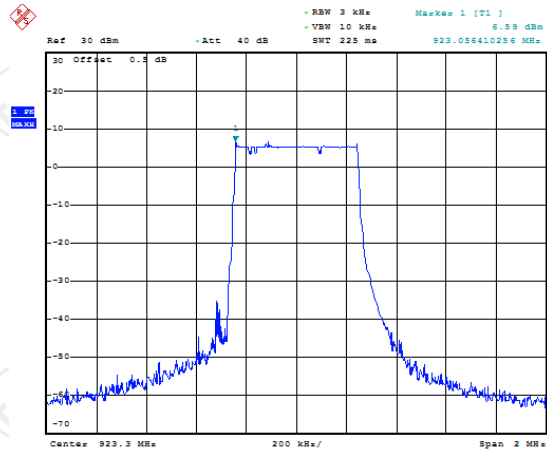
For DTS:

Test channel	Power Spectral Density (dBm/3kHz)		
	500KHz	Limit	Result
Lowest	6.59	8 dBm/3kHz	PASS
Highest	6.86	8 dBm/3kHz	

Test plots as follows:

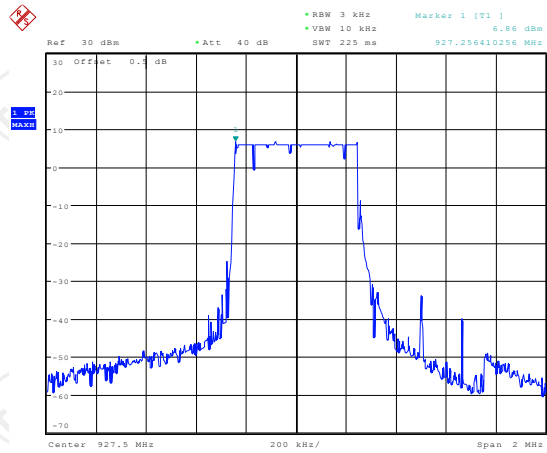


Lowest channel



Date: 9.JUL.2021 22:33:37

Highest channel



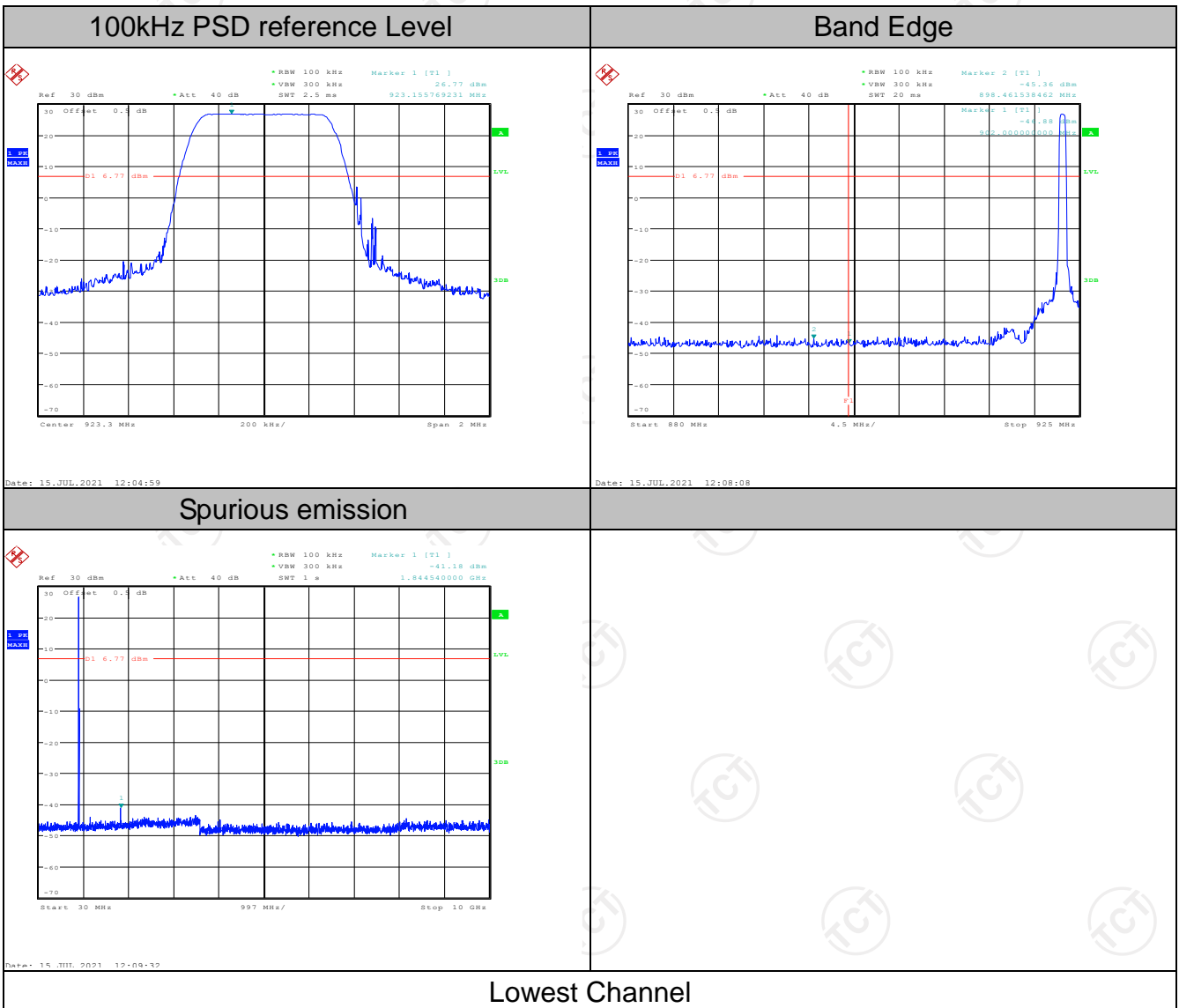
Date: 9.JUL.2021 22:34:46

5.6.2. Test Instruments

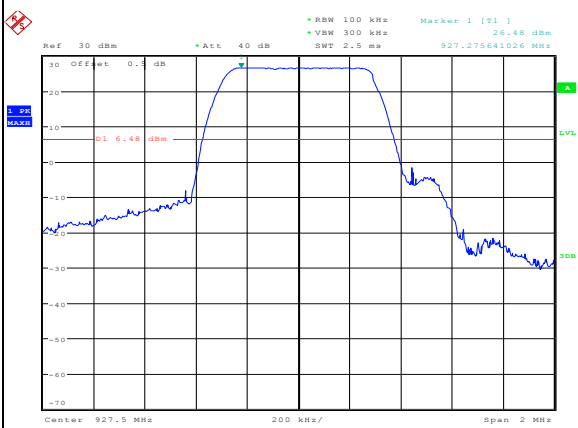
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
Spectrum Analyzer	ROHDE&SCHWARZ	FSQ40	200061	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

5.6.3. Test Data

500KHz

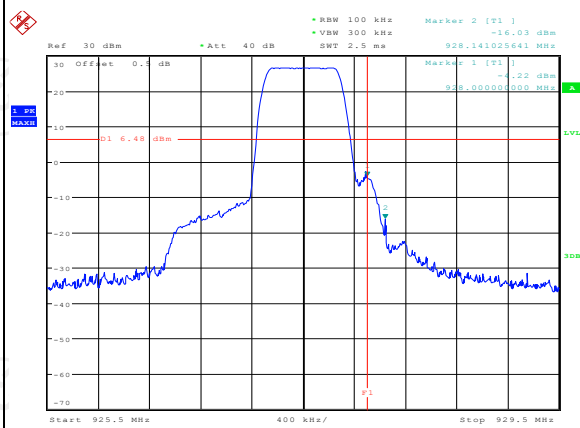


100kHz PSD reference Level



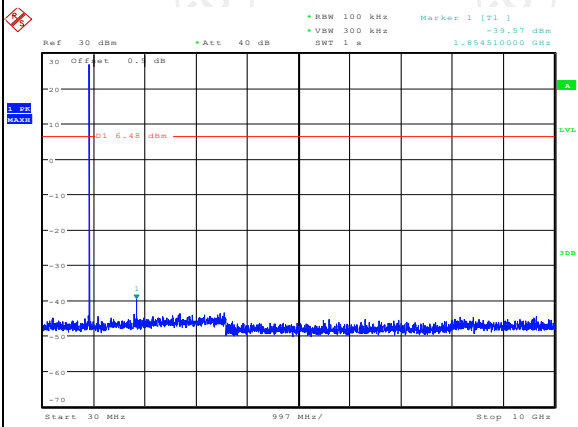
Date: 9.JUL.2021 22:17:26

Band Edge



Date: 9.JUL.2021 22:22:50

Spurious emission



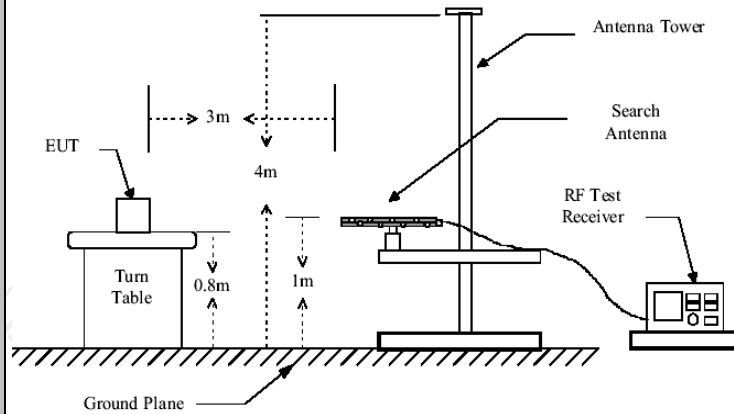
Date: 9.JUL.2021 22:26:45

Highest Channel

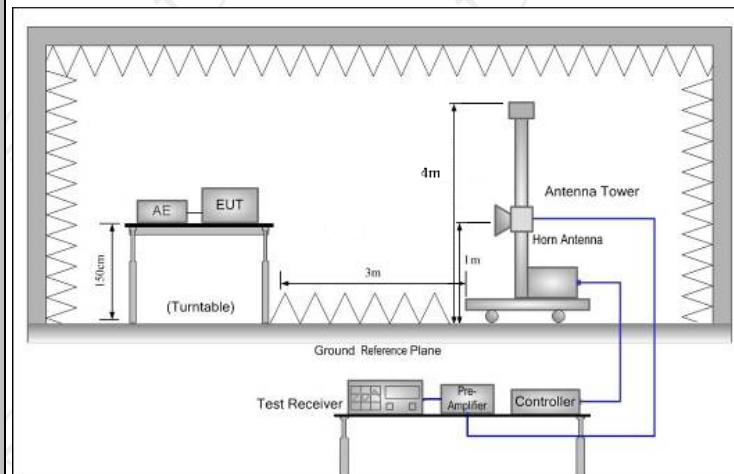
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10: 2013					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & Vertical					
Operation mode:	Refer to item 3.1					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Value	
Limit:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)			
	0.009-0.490	2400/F(KHz)	300			
	0.490-1.705	24000/F(KHz)	30			
	1.705-30	30	30			
	30-88	100	3			
	88-216	150	3			
	216-960	200	3			
	Above 960	500	3			
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector		
	Above 1GHz	500	3	Average		
	5000	3	Peak			
Test setup:	For radiated emissions below 30MHz					
	<p>30MHz to 1GHz</p>					



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is 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

	<p>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.</p> <p>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>4. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=120 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement.</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test mode:	Refer to section 4.1 for details
Test results:	PASS

5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	TCT	RE-high-04	N/A	Sep. 02, 2021
Line-8	TCT	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.7.3. Test Data

Please refer to following diagram for individual
Below 1GHz

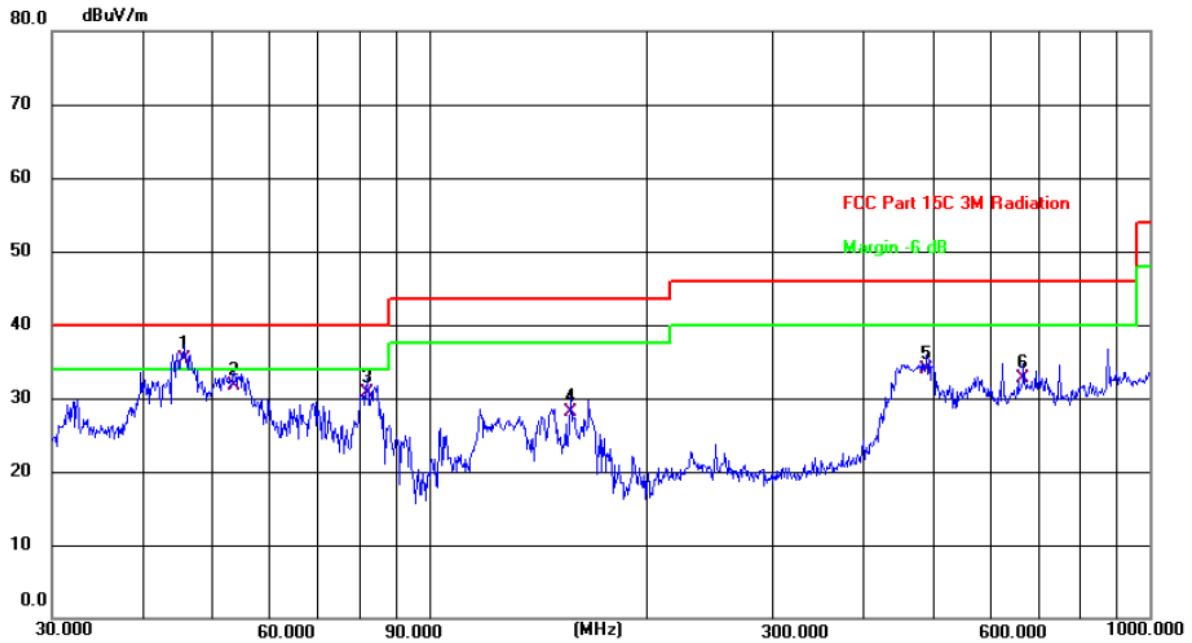
Horizontal:



Site: Polarization: **Horizontal** Temperature: 24.3(C)
Limit: FCC Part 15C 3M Radiation Power: AC 120 V/60 Hz Humidity: 50 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	125.8863	10.03	12.43	22.46	43.50	-21.04	QP	P	
2	191.0738	10.07	11.22	21.29	43.50	-22.21	QP	P	
3	250.3009	14.68	12.79	27.47	46.00	-18.53	QP	P	
4 *	449.5557	19.49	17.79	37.28	46.00	-8.72	QP	P	
5	568.6126	11.65	20.65	32.30	46.00	-13.70	QP	P	
6	875.2468	11.10	25.32	36.42	46.00	-9.58	QP	P	

Vertical:



Site: Polarization: **Vertical** Temperature: 24.3(C)
 Limit: FCC Part 15C 3M Radiation Power: AC 120 V/60 Hz Humidity: 50 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	45.6946	21.39	13.86	35.25	40.00	-4.75	QP	P	
2	53.6931	18.33	13.31	31.64	40.00	-8.36	QP	P	
3	82.0704	21.43	9.22	30.65	40.00	-9.35	QP	P	
4	157.5586	14.24	13.80	28.04	43.50	-15.46	QP	P	
5	490.7445	15.01	18.80	33.81	46.00	-12.19	QP	P	
6	668.1422	10.58	22.11	32.69	46.00	-13.31	QP	P	

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.

3. Freq. = Emission frequency in MHz

Measurement (dBuV/m) = Reading level (dBuV) + Corr. Factor (dB)

Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

Limit (dBuV/m) = Limit stated in standard

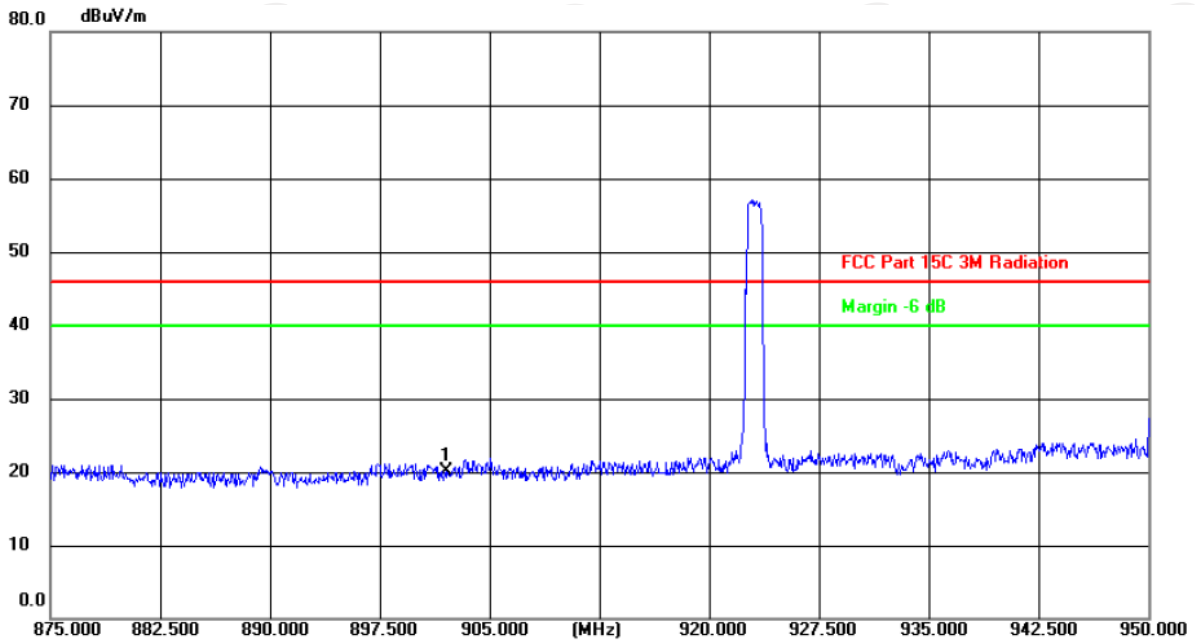
Margin (dB) = Measurement (dBuV/m) - Limits (dBuV/m)

* is meaning the worst frequency has been tested in the test frequency range

Test Result of Radiated Spurious at Band edges

Lowest channel 923.3:

Horizontal:

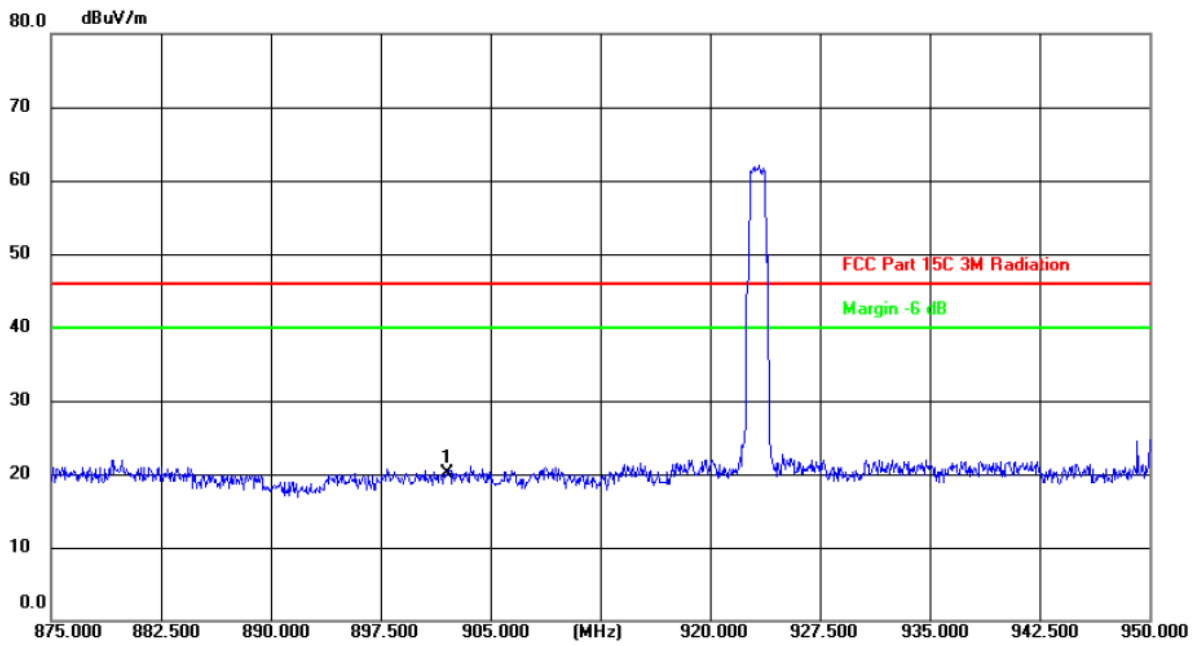


Site: Polarization: *Horizontal* Temperature: 23.6(C)
Limit: FCC Part 15C 3M Radiation Power: Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	902.0000	-5.61	25.70	20.09	46.00	-25.91	peak	P	



Vertical:



Site

Polarization: *Vertical*

Temperature: 23.6(C)

Limit: FCC Part 15C 3M Radiation

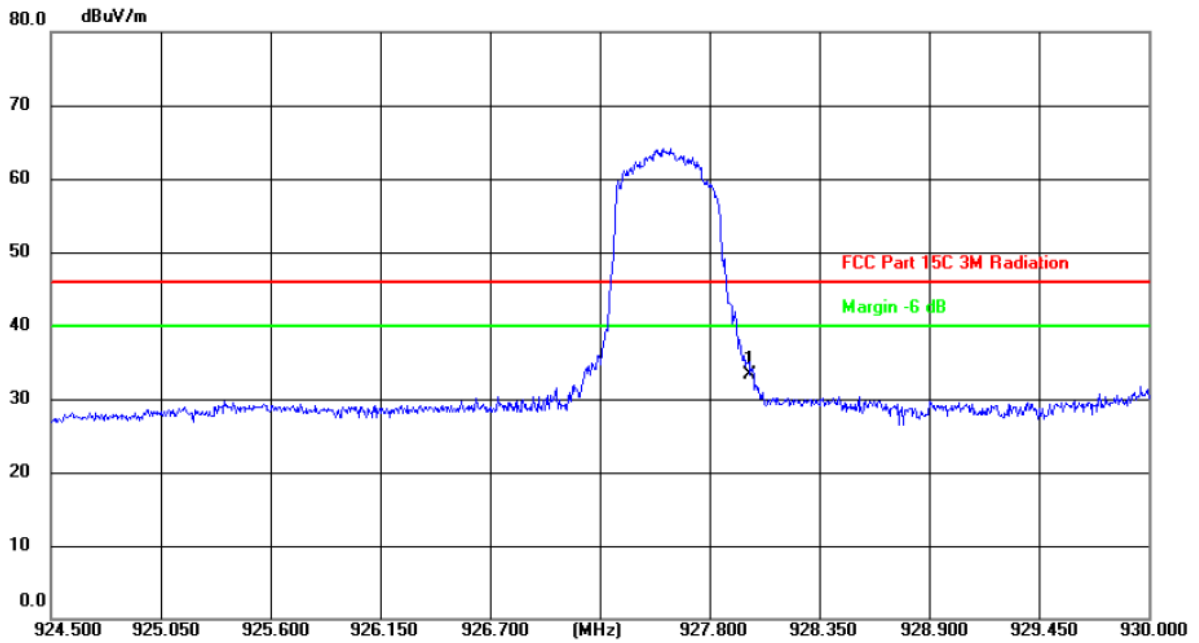
Power:

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	902.0000	-5.61	25.70	20.09	46.00	-25.91	peak	P	

Highest channel 927.5:

Horizontal:

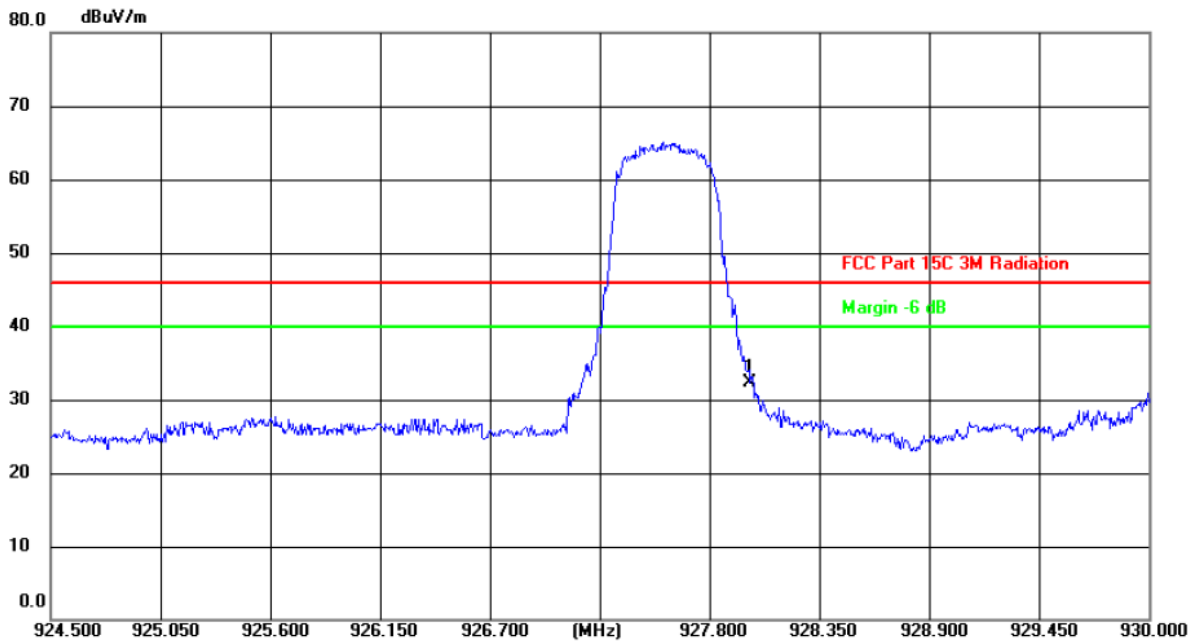


Site: Polarization: **Horizontal** Temperature: 23.6(C)
 Limit: FCC Part 15C 3M Radiation Power: Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	928.0000	7.24	25.97	33.21	46.00	-12.79	peak	P	



Vertical:



Site

Polarization: *Vertical*

Temperature: 23.6(C)

Limit: FCC Part 15C 3M Radiation

Power:

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	928.0000	6.24	25.97	32.21	46.00	-13.79	peak	P	

Above 1GHz

500KHz									
Low channel: 923.3 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
1846.6	H	48.37	---	0.66	49.03	---	74	54	-4.97
2769.9	H	38.88	---	9.50	48.38	---	74	54	-5.62
---	H	---	---	---	---	---	---	---	---
1846.6	V	48.35	---	0.66	49.01	---	74	54	-4.99
2769.9	V	38.59	---	9.50	48.09	---	74	54	-5.91
---	V	---	---	---	---	---	---	---	---

High channel: 927.5 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
1855.0	H	48.45	---	1.33	49.78	---	74	54	-4.22
2782.5	H	37.66	---	10.22	47.88	---	74	54	-6.12
---	H	---	---	---	---	---	---	---	---
1855.0	V	46.08	---	1.33	47.41	---	74	54	-6.59
2782.5	V	34.65	---	10.22	44.87	---	74	54	-9.13
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown "—" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Appendix A: Photographs of Test Setup

Refer to the test report No. TCT210706E034

Appendix B: Photographs of EUT

Refer to the test report No. TCT210706E034

*******END OF REPORT*******