

TEST REPORT

FCC ID: 2AMSOCAD-6057

Product: WIRELESS FM TRANSMITTER AND CAR CHARGER

Model No.: CAD-6057

Additional Model No.: N/A

Trade Mark: CAR DRIVER CAR DRIVER

Report No.: TCT210108E007 Issued Date: Jan. 26, 2021

Issued for:

Summit Electronics LLC

1 Rewe Street, Brooklyn, New York 11211, United States

Issued By:

Shenzhen Tongce Testing Lab.

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TABLE OF CONTENTS

1.	Test Certification		3
2.	Test Result Summary		4
3.	EUT Description		5
4.	General Information		6
	4.1. Test Environment and Mode		
	4.2. Description of Support Units	(<u>ci)</u>	6
5.	Facilities and Accreditations		
	5.1. Facilities	<u></u>	7
	5.2. Location		
	5.3. Measurement Uncertainty		7
6.	Test Results and Measurement Data		8
	6.1. Antenna Requirement		8
	6.2. Conducted Emission		
	6.3. Radiated Emission Measurement		10
	6.4. Occupied Bandwidth		21
Аp	pendix A: Photographs of Test Setup		
Ap	pendix B: Photographs of EUT		
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1. Test Certification

Report No.: TCT210108E007

Product:	WIRELESS FM TRANSMITTER AND CAR CHARGER			
Model No.:	CAD-6057			
Additional Model No.:	N/A			
Trade Mark:	CAR DRIVER CAR DRIVER			
Applicant:	Summit Electronics LLC			
Address:	1 Rewe Street, Brooklyn, New York 11211, United States			
Manufacturer:	Summit Electronics LLC			
Address:	1 Rewe Street, Brooklyn, New York 11211, United States			
Date of Test:	Jan. 11, 2021 – Jan. 25, 2021			
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.239			

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Brave Zeng

Date: Jan. 25, 2021

Brave Zeng

Reviewed By: Date: Jan. 26, 2021

Approved By: Jan. 26, 2021

Beryl Zhao

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section IC Paragraph	Result	
Antenna requirement	§15.203	PASS	
AC Power Line Conducted Emission	§15.207	N/A	
Field strength of the fundamental signal	§15.239 (b)	PASS	
Spurious emissions	§15.239 (b) (c)/ §15.209	PASS	
Occupied Bandwidth	§15.215 (c)	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.

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4. The test result judgment is decided by the limit of test standard.



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3. EUT Description

Report	No.:	TCT210108E007
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Product:	WIRELESS FM TRANSMITTER AND CAR CHARGER
Model No.:	CAD-6057
Additional Model No.:	N/A
Trade Mark:	CAR DRIVER CAR DRIVER
Operation Frequency:	88.1MHz – 107.9MHz
Channel Separation:	200 kHz
Number of Channel:	100CH
Modulation Technology:	FSK
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Power Supply:	DC 12V/24V

Operation Frequency Each of Channel

-								
\	Channel	Frequency	Channel	Frequency	Channel	Frequency		
/	1	88.1 MHz	49	97.7 MHz	98	107.5 MHz		
	2	88.3 MHz	50	97.9 MHz	99	107.7 MHz		
	3	88.5 MHz	51	98.1 MHz	100	107.9 MHz		
	(.C		(<u> </u>		(.c.)		

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, and the selected channel see below:

Channel	Frequency		
The lowest channel	88.1 MHz		
The middle channel	98.1 MHz		
The Highest channel	107.9 MHz		



4. General Information

4.1. Test Environment and Mode

Operating Environment:						
Temperature:	24.0 °C					
Humidity:	54 % RH					
Atmospheric Pressure:	1010 mbar					
Test Mode:						
Operation mode:	Keep the EUT in continuous transmitting with modulation					

The sample was placed (0.8m below 1GHz, 1.5m 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 are shown in Test Results of the following pages.

4.2. 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.		Serial No.	FCC ID/DOC	Trade Name
	1	1		

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.

Page 6 of 24



5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber 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

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

Tel: 86-755-27673339

5.3. Measurement Uncertainty

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

	Allee of approximately 50 701	
No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

Report No.: TCT210108E007



6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

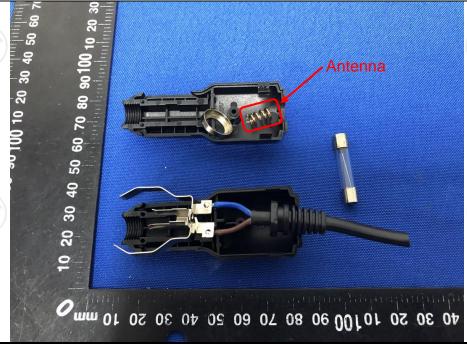
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 FM antenna is internal antenna which permanently attached, and the best case gain of the antenna is 0dBi.



Page 8 of 24





6.2. Conducted Emission

6.2.1. 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:	Frequency range Limit (dBuV) (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50			
	Ref	erence Plane		
Test Setup:	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m			
Test Mode:	Refer to section 4.1 for details			
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 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:	The EUT is powered by	car's power, So	not applicable.	



TESTING CENTRE TECHNOLOGY Report No.: TCT210108E007

6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Frequency Range:	9 kHz to 1 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical			
	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peal	(200Hz	1kHz	Quasi-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peal		30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peal		300KHz	Quasi-peak Value
	Frequer	псу	Limit (dB @3n		Remark
	88-108M	1Hz	48		Average Value
Limit(Field strength of the			68 	. (4. 4.	Peak Value ny emissions within
fundamental signal):	microvoli paragrap employin	ts/meter at hh is bas ng an avera	3 meters. ed on me	The emi easuremer r. The pro	not exceed 250 ssion limit in this at instrumentation ovisions in Section
	Frequer		Limit (dBuV/		Remark
Limit/Carriero Emissiens).	30MHz-88		40.0		Quasi-peak Value
Limit(Spurious Emissions):	88MHz-216 216MHz-96	1 1	43.5 46.0		Quasi-peak Value Quasi-peak Value
					Quasi-peak Value
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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 				

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TESTING CENTRE TECHNOLOGY	Report No.: TCT210108E00)7
	 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 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. 	
	For radiated emissions below 30MHz Distance = 3m Computer Pre -Amplifier Receiver	
	30MHz to 1GHz	
Test setup:	Antenna Tower Search Antenna Tum Table 0.8m Table A A A A A	
Test Mode: Test results:	Refer to section 4.1 for details PASS	
- OSC FOOGICO	17.00	





6.3.2. Test Instruments

	Radiated Em	ission 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	тст	RE-high-04	N/A	Sep. 02, 2021
Line-8	тст	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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26.81 (PK)

6.3.3. Test Data

88.1

Field Strength of Fundamental

/						
	Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)	
	88.1	25.66 (AV)	Н	48	-22.34	
	88.1	28.17 (PK)	Н	68	-39.83	
	88.1	24.12 (AV)	V	48	-23.88	

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68

	Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)		
	98.1	29.66 (AV)	Н	48	-18.34		
	98.1	31.98 (PK)	Н	68	-36.02		
	98.1	25.15 (AV)	V	48	-22.85		
)	98.1	27.02 (PK)	V	68	-40.98		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
107.9	29.22 (AV)	Н	48	-18.78
107.9	31.10 (PK)	Н	68	-36.90
107.9	27.35 (AV)	V	48	-20.65
107.9	29.87 (PK)	V	68	-38.13

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
	1			
	1			
(3)		(S)		
(8)	<u> </u>	(0)		

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Page 13 of 24

Report No.: TCT210108E007

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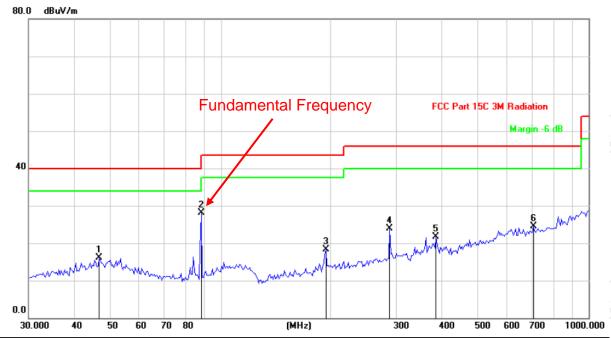


Frequency Range (30MHz-1GHz)

Report No.: TCT210108E007

Horizontal:

88.1 MHz



Site Polarization: Horizontal Temperature: 25

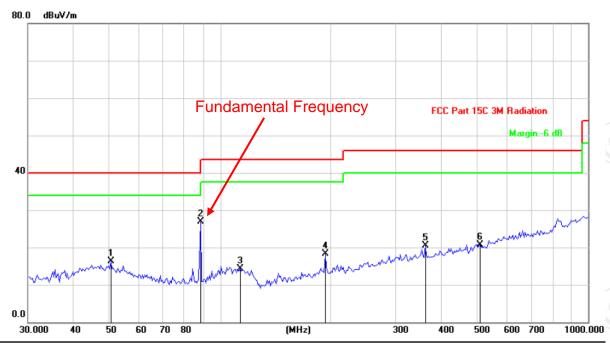
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

•	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
X			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
ر	1		46.7077	28.16	-12.06	16.10	40.00	-23.90	peak
•	2	*	88.5336	43.91	-15.74	28.17	43.50	-15.33	peak
	3		193.1366	32.03	-13.71	18.32	43.50	-25.18	peak
	4		288.2840	34.58	-10.68	23.90	46.00	-22.10	peak
_	5		384.5447	30.88	-9.21	21.67	46.00	-24.33	peak
<u></u>	6		708.6941	29.48	-5.02	24.46	46.00	-21.54	peak



Vertical:

88.1 MHz



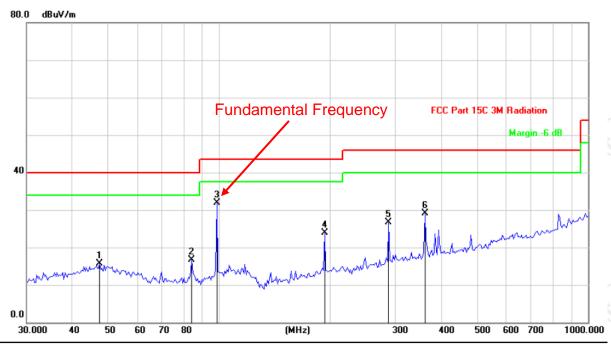
Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

•	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
X			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
ر	1		50.4613	28.45	-12.05	16.40	40.00	-23.60	peak
	2	*	88.5336	42.55	-15.74	26.81	43.50	-16.69	peak
	3		113.2200	27.67	-13.35	14.32	43.50	-29.18	peak
•	4		193.1365	32.06	-13.71	18.35	43.50	-25.15	peak
	5	,	360.9775	29.88	-9.32	20.56	46.00	-25.44	peak
	6		509.3559	28.23	-7.46	20.77	46.00	-25.23	peak



Horizontal:

98.1 MHz



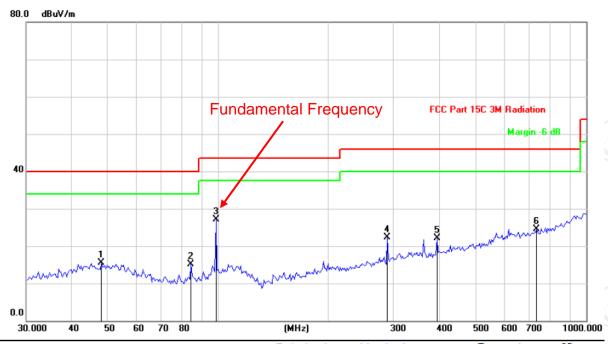
Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.3688	27.69	-12.04	15.65	40.00	-24.35	peak
2		84.2839	32.60	-15.83	16.77	40.00	-23.23	peak
3	*	98.3752	45.77	-13.79	31.98	43.50	-11.52	peak
4		193.1366	37.71	-13.71	24.00	43.50	-19.50	peak
5		288.2840	37.44	-10.68	26.76	46.00	-19.24	peak
6	;	360.9775	38.38	-9.32	29.06	46.00	-16.94	peak



Vertical:

98.1 MHz



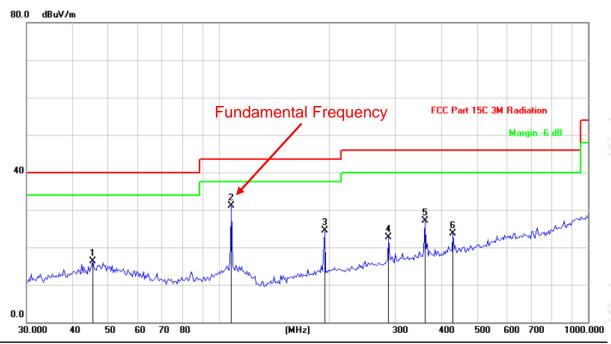
Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
X			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
ر	1		48.0392	27.45	-12.01	15.44	40.00	-24.56	peak
	2		84.2839	31.03	-15.83	15.20	40.00	-24.80	peak
•	3	*	98.3752	40.81	-13.79	27.02	43.50	-16.48	peak
•	4	2	288.2840	32.99	-10.68	22.31	46.00	-23.69	peak
	5	,	392.7376	31.16	-9.11	22.05	46.00	-23.95	peak
	6		734.0373	29.13	-4.63	24.50	46.00	-21.50	peak



Horizontal:

107.9 MHz



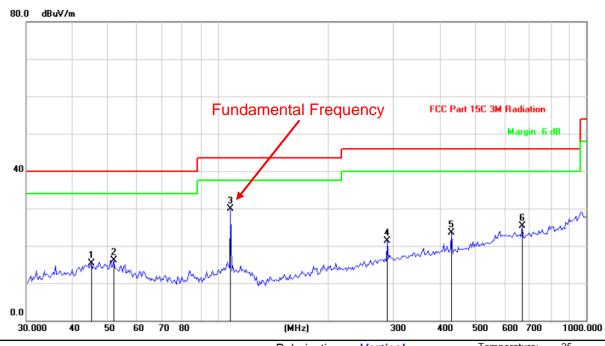
Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.4130	28.34	-12.10	16.24	40.00	-23.76	peak
2	*	107.7853	44.23	-13.13	31.10	43.50	-12.40	peak
3		193.1365	38.17	-13.71	24.46	43.50	-19.04	peak
4		288.2839	33.33	-10.68	22.65	46.00	-23.35	peak
5		360.9775	36.48	-9.32	27.16	46.00	-18.84	peak
6		430.3052	32.33	-8.59	23.74	46.00	-22.26	peak



Vertical:

107.9 MHz



Site	Polarization: Vertical	Temperature: 25
Limit: FCC Part 15C 3M Radiation	Power: DC 12V	Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.0951	27.37	-12.13	15.24	40.00	-24.76	peak
2		51.8998	28.51	-12.36	16.15	40.00	-23.85	peak
3	*	107.7853	43.00	-13.13	29.87	43.50	-13.63	peak
4		288.2840	31.90	-10.68	21.22	46.00	-24.78	peak
5		430.3053	32.03	-8.59	23.44	46.00	-22.56	peak
6		669.9523	30.50	-5.11	25.39	46.00	-20.61	peak

Note: 1) QP= Quasi-peak

2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

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



Above 1GHz

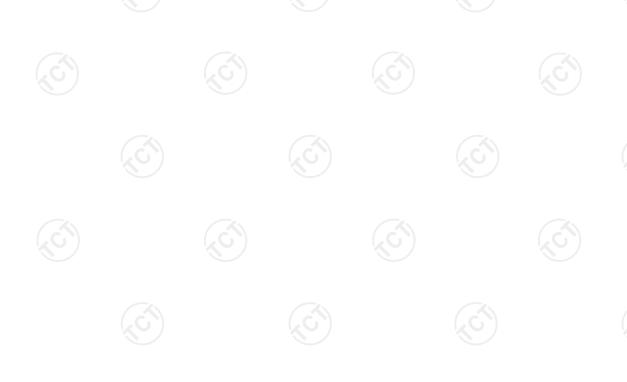
Low channel: 88.1 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	l AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
1057.2	Н	31.89		-4.2	27.69		74	54	-26.31
1057.2	V	30.57	772	-4.2	26.37		74	54	-27.63
								(, c	

Middle channel: 98.1 MHz										
	Croquene.	Ant Dol	Peak	AV	Correction	Emissio	n Level	Dook limit	AV limit	Margin (dB)
.\	Frequency (MHz)	H/V	reading	reading	Factor	Peak	// //	(dBµV/m)		
			(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)		(ubµ v/III)	(ub)
	1078.0	Н	34.28		-3.98	30.30		74	54	-23.70
	1078.0	V	30.95		-3.98	26.97		74	54	-27.03

	High channel: 107.9 MHz									
	Frequency (MHz)	Ant Pol	Peak		Correction	Emissio	n Level	Peak	AV limit	Margin
		H/V	' reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	limit (dBµV/m)	(dDu\//m)	(dB)
	1079.0	Η	34.78		-3.98	30.80		74	54	-23.20
	1079.0	V	32.55		-3.98	28.57	-	74	54	-25.43
			, C)		(, ((``ر		- - -C))	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 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.





6.4. Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	200kHz
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Refer to section 4.1 for details
Test results:	PASS (C)

6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 21 of 24



6.4.3. Test data

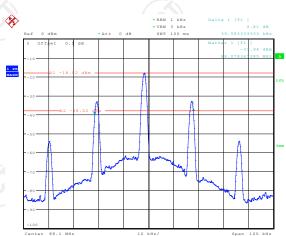
Test Channel	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	39.58	200	PASS
Middle	39.58	200	PASS
Highest	39.42	200	PASS

Test plots as follows:

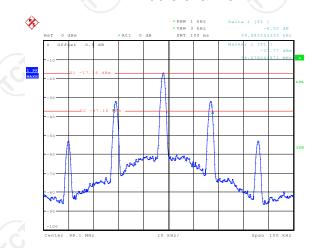




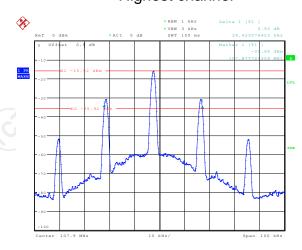
Lowest channel



Middle channel



Highest channel





Appendix A: Photographs of Test Setup

Refer to the test report No. TCT210108E005

Appendix B: Photographs of EUT

Refer to the test report No. TCT210108E005



Page 24 of 24