

RF TEST REPORT

Product Name: Multifunctional Tablet

Model Name: P100S

FCC ID: 2AC6AP100S

Issued For : Shenzhen Chainway Information Technology Co., Ltd

9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT24F082RF17
Sample Received Date:	Aug. 23, 2024
Date of Test:	Aug. 23, 2024 ~ Dec. 06, 2024
Date of Issue:	Dec. 06, 2024

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TEST REPORT CERTIFICATION

Applicant:	Shenzhen Chainway Information Technology Co., Ltd		
Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China		
Manufacturer:	Shenzhen Chainway Information Technology Co., Ltd		
Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China		
Product Name:	Multifunctional Tablet		
Trademark:	CHAINWAY		
Model Name:	P100S		
Sample Status:	Normal		

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC Part 15.225, Subpart C ANSI C63.10-2013	PASS		

Prepared by:

Zane Shan

Zane Shan Engineer

Approved by:

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Vita Li Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Dec. 06, 2024	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.225, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.209 15.225(a)(b)(c)(d)	Radiated Emission	PASS	
15.225(e)	Frequency Tolerance	PASS	
15.203	Antenna Requirement	PASS	
15.215	20dB Bandwidth	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.		
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China		
Approximation Contificate	FCC Registration No.: 746540		
Accreditation Certificate	A2LA Certificate No.: 6727.01		

1.2 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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Multifunctional Tablet			
Trademark:	CHAINWAY			
Model Name:	P100S			
Series Model:	N/A			
Model Difference:	N/A			
Product Description:	Operation Frequency:13.56MHzModulation Type:ASKAntenna Designation:Please see Note 2.			
Channel List:	Please refer to the Note 2	2.		
Adapter:	Input: 100-240V 50/60Hz 0.8A Output: (PD)5V 3A 15W or 9V 3A 27W or 12V 2.5A 30W or 15V 2A 30W or 20V 1.5A 30W (PPS)3.3V-11V 3A(33W MAX)			
Battery:	Battery1: Capacity: 10000mAh Rated Voltage: 3.85V Battery2: Capacity: 78mAh Rated Voltage: 3.8V			
Hardware Version:	P100S_Hardware_version			
Software Version:	P100S_Software_version			
Connecting I/O Port(s):	Please refer to the Note 1.			

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description
Mode 1	TX Mode

Note:

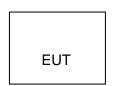
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and Frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

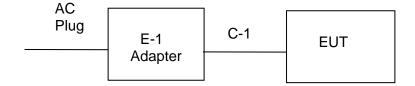
(3) The battery is fully-charged during the radited and RF conducted test.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Shen Zhen Huajin Electronics Co.,Ltd	HJ-C6-33-EU	N/A	Input: 100-240V 50/60Hz 0.8A Output: (PD)5V 3A 15W or 9V 3A 27W or 12V 2.5A 30W or 15V 2A 30W or 20V 1.5A 30W (PPS)3.3V-11V 3A(33W MAX)
USB-A to USB-C Cable	N/A	N/A	N/A	0.8m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^r Length ^a column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment Cal. Until Equipment Manufacturer Model No. Serial No. Cal. Date **EMI Test Receiver** ESU8 100372 2024.03.09 2025.03.08 R&S Active loop Antenna ETS 6502 00049544 2023.10.13 2025.10.12 Spectrum Analyzer N9010B MY60242508 2024.08.05 2025.08.04 Keysight Bilog Antenna(30M-1G) SCHWARZBECK **VULB 9168** 2705 2022.12.12 2025.12.11 Horn Antenna(1-18G) SCHWARZBECK 3115 10SL0060 2022.06.02 2025.06.01 LB-180400-KF Horn Antenna(18-40G) A-INFO J211060273 2022.06.08 2025.06.07 Pre-amplifier(30M-1G) EMtrace RP01A 02019 2024.03.09 2025.03.08 Pre-amplifier(1-26.5G) Agilent 8449B 3008A4722 2024.03.09 2025.03.08 Pre-amplifier(18-40G) com-mw LNPA_18-40-01 18050003 2024.03.09 2025.03.08 Wireless Communications **CMW 500** 2025.03.08 R&S 137737 2024.03.09 Test Set Temperature & Humidity JINGCHUANG BT-3 N.A 2024.03.11 2025.03.10 **Testing Software** EMC-I_V1.4.0.3_SKET



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Class B	Standard		
FREQUENCY (MHz)	Quasi-peak	Average	Stanuaru	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	56.00	46.00	FCC	
5.0 -30.0	60.00	50.00	FCC	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

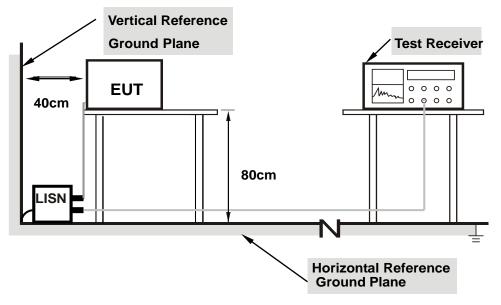
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- 3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support.

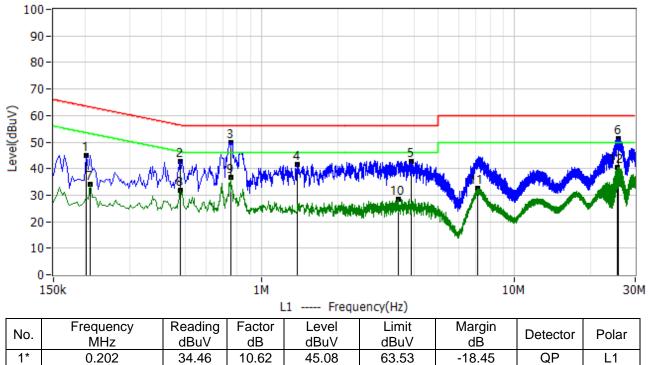
3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

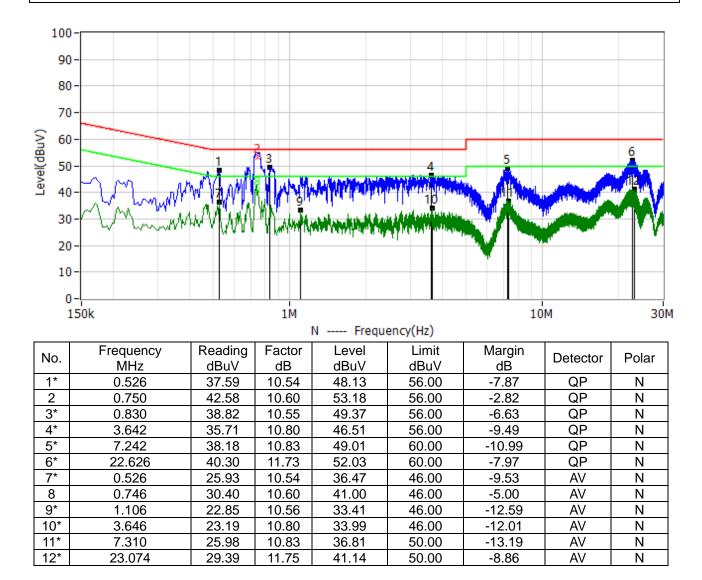
Project: LGT24F082	Test Engineer: LiuH
EUT: Multifunctional Tablet	Temperature: 28.2°C
M/N: P100S	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-10-12
Test Mode: NFC	
Note:	



NO.	MHz	dBuV	dB	dBuV	dBuV	dB	Delector	i olai
1*	0.202	34.46	10.62	45.08	63.53	-18.45	QP	L1
2*	0.478	32.29	10.57	42.86	56.37	-13.52	QP	L1
3*	0.754	39.39	10.59	49.98	56.00	-6.02	QP	L1
4*	1.378	30.64	10.80	41.44	56.00	-14.56	QP	L1
5*	3.902	31.66	11.14	42.80	56.00	-13.20	QP	L1
6*	25.790	39.28	11.86	51.14	60.00	-8.86	QP	L1
7*	0.210	23.42	10.62	34.04	53.21	-19.17	AV	L1
8*	0.478	21.26	10.57	31.83	46.37	-14.55	AV	L1
9*	0.754	26.06	10.59	36.65	46.00	-9.35	AV	L1
10*	3.470	17.30	11.17	28.47	46.00	-17.53	AV	L1
11*	7.130	21.53	10.99	32.52	50.00	-17.48	AV	L1
12*	25.610	28.61	11.86	40.47	50.00	-9.53	AV	L1



Project: LGT24F082	Test Engineer: LiuH
EUT: Multifunctional Tablet	Temperature: 28.2°C
M/N: P100S	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-10-12
Test Mode: NFC	
Note:	





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

(Radiated Emission <30MHz (9KHz-30MHz, H-field)

According to FCC section 15.225, for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 30 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT) There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) = 20log(X)+40log(30/3)=20log(15,848)+40log(30/3)=124dBuV3 m Limit(dBuV/m) = 20log(X)+40log(30/3)=20log(134)+40log(30/3)=90.47dBuV3 m Limit(dBuV/m) = 20log(X)+40log(30/3)=20log(106)+40log(30/3)=69.506dBuV3 m Limit(dBuV/m) = 20log(X)+40log(30/3)=20log(30)+40log(30/3)=69.54dBuV2 m Limit(dBuV/m) = 20log(X)+40log(30/3)=20log(30)+40log(30/3)=69.54dBuV5 m Limit(dBuV/m) = 20log(X)+40log(30/3)=60.54dBuV5 m Limit(dBuV/m) = 20log(X)+40log(30/3)=60.54dBuV5 m Limit(dBuV/m) = 20log(X)+40log(30/3)=60.54dBuV5 m Limit(dBuV/m) = 20log(X)+60.54dBuV5 m Limit(dBuV/m) = 20log(X)+60.54dBuV5 m Limit(dBuV/m) = 20log(X)+60.54dBuV5 m Limit(dBuV/m) = 20log(X)+60.54dBuV5 m Limit(dBuV/m) = 20l

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequency range	Frequency (KHz)	Field Strength	@300m	Field Strength@3m
(KHz)	Frequency (KHz)	μV/m	dBµV/m	dBµV/m
	9	266.67	48.52	128.52
9 ~ 490	150	16.00	24.08	104.08
	490	4.90	13.80	93.80

Frequency range	Fraguanay (KHz)	Field Strength@30m		Field Strength@3m
(KHz)	Frequency (KHz)	μV/m	dBµV/m	dBµV/m
400 1705	490	48.98	33.80	73.80
490 ~ 1705	1705	14.08	22.97	62.97

Frequency range	Fraguanay (KHz)	Field Strength@30m		Field Strength@3m
(KHz)	Frequency (KHz)	μV/m	dBµV/m	dBµV/m
1705 ~ 30000	1705	30.00	29.54	69.54
1705 ~ 30000	30000	30.00	29.54	69.54



	Field Strength	@30m	Field Strength@3m
Frequency range (MHz)	μV/m	dBµV/m	dBµV/m
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124.0
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5

NOTE:

a) Field Strength (dB μ V/m) = 20*log[Field Strength (μ V/m)].

b) In the emission tables above, the tighter limit applies at the Band edge.
Radiated Emission >30MHz (30MHz-1GHz, E-field)
According to FCC section 15.205, the field strength of radiated emissions from intentiona radiators at a distance of 3 meters shall not exceed the following values:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP		
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		



4.2 TEST PROCEDURE

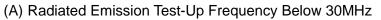
- a. The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. For the test Antenna
- b. In the frequency range of 9KHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- c. In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.
- f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- h. For the actual test configuration, please refer to the related Item -EUT Test Photos.

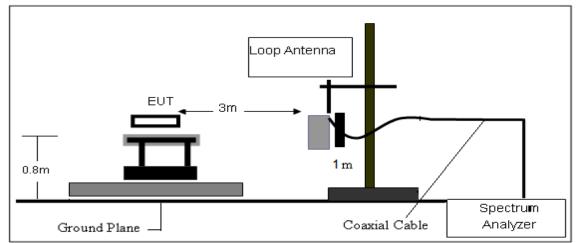
NOTE:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

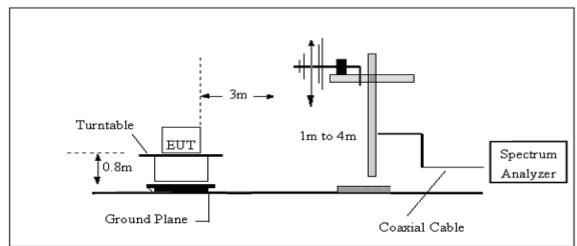


4.3 TEST SETUP





(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



4.4 EUT OPERATING CONDITIONS Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

For example

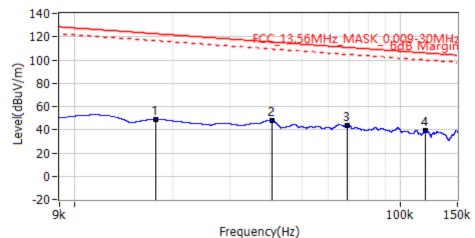
Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



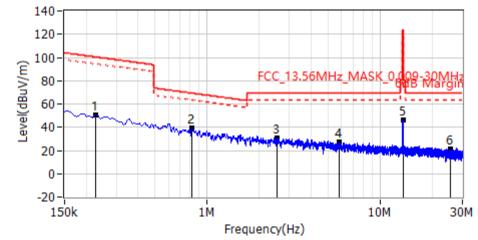
4.6 TEST RESULTS

(Radiated Emission<30MHz (9KHz-30MHz, H-field))



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	17.8301kHz	33.53	15.39	48.92	122.58	-73.66	PK
2*	40.3901kHz	34.94	12.72	47.66	115.48	-67.82	PK
3*	68.7135kHz	32.08	12.00	44.08	110.86	-66.78	PK
4*	119.6145kHz	27.02	12.00	39.02	106.05	-67.02	PK





No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	228.3562kHz	38.54	12.00	50.54	100.43	-49.89	PK
2*	817.8938kHz	27.17	12.00	39.17	69.35	-30.18	PK
3*	2.5268MHz	18.54	12.00	30.54	69.54	-39.00	PK
4*	5.8252MHz	15.07	12.00	27.07	69.54	-42.47	PK
5*	13.5601MHz	35.15	11.00	46.15	124.00	-77.85	PK
6*	25.5262MHz	11.69	9.50	21.19	69.54	-48.35	PK

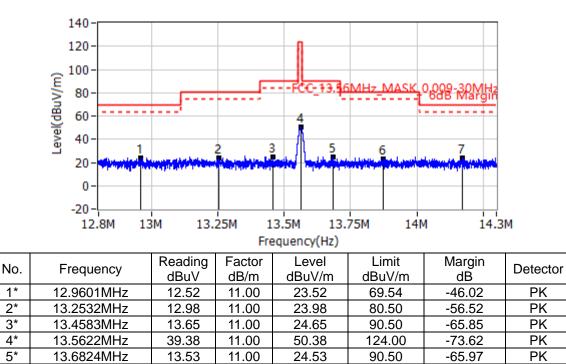


ΡK

ΡK

-57.84

-45.33



11.00

11.00

11.66

13.21

22.66

24.21

80.50

69.54

6*

7*

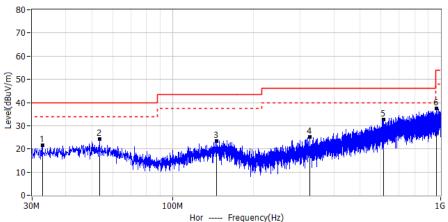
13.8742MHz

14.1733MHz

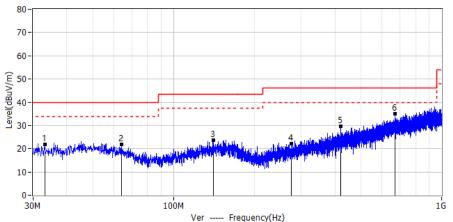


Between 30-1000MHz

Project: LGT24F082	Test Engineer: LiuH	
EUT: Multifunctional Tablet	Temperature: 25.7°C	
M/N: P100S	Humidity: 54%RH	
Test Voltage: Battery	Test Data: 2024-10-12	
Test Mode: NFC		
Note:		



				noi noquene	(C)=7			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INU.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	32.789	2.25	19.46	21.71	40.00	-18.29	QP	Hor
2*	53.401	3.80	20.53	24.33	40.00	-15.67	QP	Hor
3*	146.036	2.38	21.10	23.48	43.50	-20.02	QP	Hor
4*	324.516	3.14	22.13	25.27	46.00	-20.73	QP	Hor
5*	613.091	3.50	29.12	32.62	46.00	-13.38	QP	Hor
6*	967.505	3.77	33.57	37.34	54.00	-16.66	QP	Hor



				for frequency	((··)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	33.153	2.25	19.54	21.79	40.00	-18.21	QP	Ver
2*	64.071	2.98	18.96	21.94	40.00	-18.06	QP	Ver
3*	140.701	2.49	21.19	23.68	43.50	-19.82	QP	Ver
4*	275.653	1.75	20.32	22.07	46.00	-23.93	QP	Ver
5*	419.819	4.81	24.71	29.52	46.00	-16.48	QP	Ver
6*	668.988	5.27	29.69	34.96	46.00	-11.04	QP	Ver



5. FREQUENCY TOLERANCE

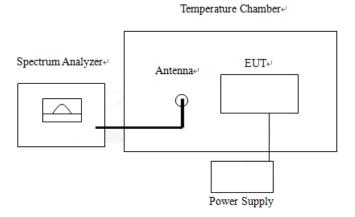
5.1 LIMIT

According to FCC section 15.225, the devices operating in the 13.553-13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20°C to +50°C using an environmental chamber. The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

5.2 TEST PROCEDURE

According to FCC section 15.225(e), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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.

5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading 5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



5.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.85V	Test Mode:	TX Mode

13.56MHz

	Tes		Frequency			
VOLTAGE(%)	Power (VDC)	Temperature (°C)	(Hz)	Deviation	Limit	Verdict
100		+20°C(Ref)	13558969	-0.00760%	±0.01%	
100		-20	13561210	0.00892%	±0.01%	
100		-10	13559457	-0.00400%	±0.01%	
100		0	13559157	-0.00622%	±0.01%	
100	3.85	10	13560179	0.00132%	±0.01%	
100		20	13560475	0.00350%	±0.01%	
100		25	13559818	-0.00134%	±0.01%	PASS
100		30	13559165	-0.00616%	±0.01%	
100		40	13560729	0.00538%	±0.01%	
100		50	13561436	0.01059%	±0.01%	
Battery End Point	3.5	20	13559387	-0.00452%	±0.01%	
115	4.35	20	13559456	-0.00401%	±0.01%	



6. 20DB BANDWIDTH

6.1 LIMIT

According to FCC section 15.215©, the 20dB bandwidth should be contained within the frequency band designated in the rule section under which the EUT is operated, it was measured with a spectrum analyzer connected the EUT while the EUT is operating in transmission mode.

6.2 TEST PROCEDURE

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §13.553-13.567 MHz and in subpart E of this part, 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. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated 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 a 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.

- 1. Set RBW = 1 kHz.
- 2. Set the video Multifunctional Tabletwidth (VBW) \geq 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7.Measure the maximum width of the emission that is constrained by the frequencies associated wi th the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB re lative to the maximum level measured in the fundamental emission.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

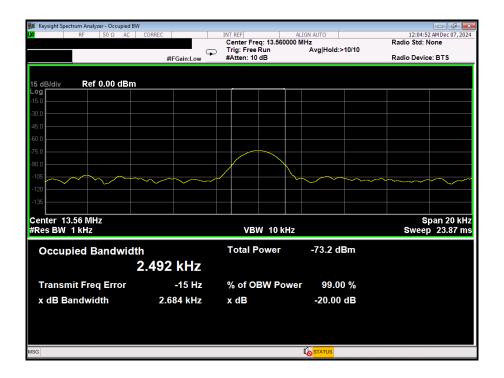
Please refer to section 3.4 of this report.



6.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity: 50%				
Test Voltage:	DC 3.85V	Test Mode: TX Mode				
13.56MHz						
Measurement						

Contro	MedSurement					
Centre Frequency	20dB Bandwidth	99% Bandwidth	Frequency Range			
	(KHz)	(KHz)	(MHz)			
13.56MHz	2.684	2.492	13.553-13.567			





7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

Part 15.203 requirement: For intentional device, according to 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.

7.2 EUT ANTENNA

The EUT antenna is coil Antenna. It comply with the standard requirement.

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