

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200471102

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TEST REPORT

Application No.: SZCR2412004711ME

Applicant: Shenzhen Dongdixin Technology Co., Ltd.

Address of Applicant: Floor 1-2, No.3 Building, Fanshen Xusheng Industrial Estate Xilixiaobaimang

Nanshan District, Shenzhen China

Manufacturer: Shenzhen Dongdixin Technology Co., Ltd.

Address of Manufacturer: Floor 1-2, No.3 Building, Fanshen Xusheng Industrial Estate

Xilixiaobaimang, Nanshan District, 518108 Shenzhen, PEOPLE'S

REPUBLIC OF CHINA

Factory: Shenzhen Dongdixin Technology Co., Ltd.

Address of Factory: Floor 1-2, No.3 Building, Fanshen Xusheng Industrial Estate

Xilixiaobaimang, Nanshan District, 518108 Shenzhen, PEOPLE'S

REPUBLIC OF CHINA

Equipment Under Test (EUT):

EUT Name: Shockwave Therapy Device

Model No.: SW3200 Portable(SW3200P)

FCC ID: 2AKMI-SW3200P

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2024-12-13

Date of Test: 2024-12-19 to 2025-03-07

Date of Issue: 2025-03-07

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku

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of enals: CN.Decence (CM) signs. Com Mol. Workshop, Mr. M. Midde Section, Section & Tenning yink, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M−10株1号厂房 邮编: 518057 t (86–755) 26012053 f (86–755) 26710594 sgs.china@sgs.com

^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version Chapter Date Modifier R							
01		2025-03-07		Original			

Authorized for issue by:			
	Bolisonti		
	Edison Li/Project Engineer		
	Exic Fu		
	Eric Fu/Reviewer	-	



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Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Result						
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		



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4 **General Information**

Details of FIIT

7.1	Details of L.O.1.	
	Power supply:	Rechargeable Li-ion Battery which charged by Main Unit
		Model: SW3200 4ICP6/35/64
		Nominal Voltage: 14.8V
		Rated Capacity: 1000mAh/14.8Wh
		Charge Limited Voltage: 16.8V
	Operation Frequency:	2402MHz to 2480MHz
	Modulation Type:	GFSK
	Number of Channels:	78
	Channel Spacing:	1MHz
	Antenna Type:	PCB Antenna
	Antenna Gain:	0dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Main Unit	Provided by client	SW3200	/
RF Cable	SGS	N/A(Cable loss:0.8dB)	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions Above 1GHz	± 4.6dB (1GHz-18GHz);± 4.8dB (18MHz-40GHz)
20dB Bandwidth	± 3%

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due Date						
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2025-01-8	2026-01-7	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02	

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14



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Radiated Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05	

Radiated Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17	



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

I imit

Frequency of	Conducted limit(dBμV)				
emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30 60 50					
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

7.1.1 E.U.T. Operation

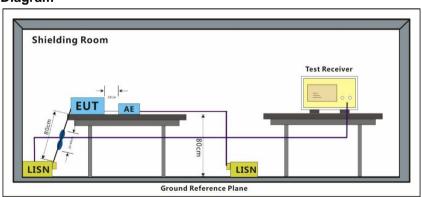
Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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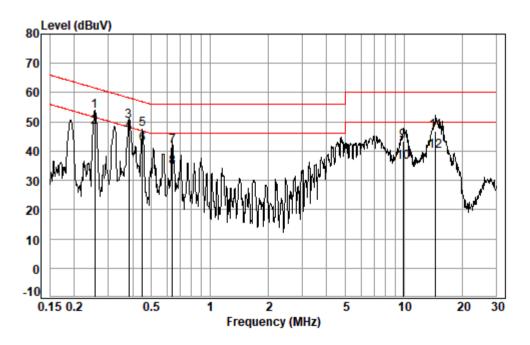


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Test Mode: 02; Line: Live line



: Shielding Room

Condition: Line Job No. : 04711ME

Test mode: 02

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.2562	0.07	9.96	43.74	53.77	61.56	-7.79	QP
2		0.2562	0.07	9.96	38.24	48.27	51.56	-3.29	Average
3		0.3832	0.07	9.70	40.45	50.22	58.21	-7.99	QP
4	*	0.3832	0.07	9.70	36.83	46.60	48.21	-1.61	Average
5		0.4492	0.08	9.61	37.73	47.42	56.89	-9.47	QP
6		0.4492	0.08	9.61	32.64	42.33	46.89	-4.56	Average
7		0.6406	0.08	9.62	32.08	41.78	56.00	-14.22	QP
8		0.6406	0.08	9.62	24.87	34.57	46.00	-11.43	Average
9		9.9130	0.20	9.69	33.45	43.34	60.00	-16.66	QP
10		9.9130	0.20	9.69	26.40	36.29	50.00	-13.71	Average
11		14.5942	0.26	9.90	36.59	46.75	60.00	-13.25	QP
12		14.5942	0.26	9.90	29.68	39.84	50.00	-10.16	Average



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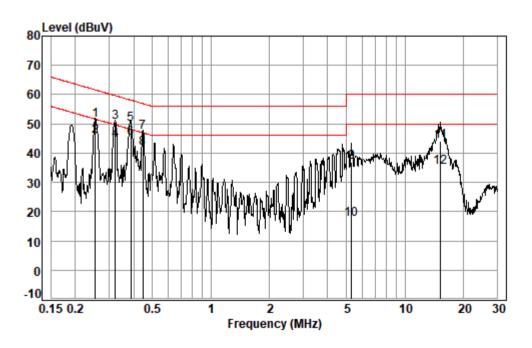


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Test Mode: 02; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04711ME

Test mode: 02

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	_	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.2535	0.07	9.90	41.30	51.27	61.64	-10.37	QP
2		0.2535	0.07	9.90	35.89	45.86	51.64	-5.78	Average
3		0.3217	0.07	9.76	40.82	50.65	59.66	-9.01	QP
4		0.3217	0.07	9.76	34.47	44.30	49.66	-5.36	Average
5	*	0.3872	0.07	9.74	40.23	50.04	58.12	-8.08	QP
6	*	0.3872	0.07	9.74	35.38	45.19	48.12	-2.93	Average
7		0.4468	0.08	9.72	37.30	47.10	56.93	-9.83	QP
8		0.4468	0.08	9.72	31.99	41.79	46.93	-5.14	Average
9		5.3050	0.13	9.58	27.03	36.74	60.00	-23.26	QP
10		5.3050	0.13	9.58	7.70	17.41	50.00	-32.59	Average
11		15.3070	0.26	9.87	33.83	43.96	60.00	-16.04	QP
12		15.3070	0.26	9.87	25.15	35.28	50.00	-14.72	Average



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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a) Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.2.1 E.U.T. Operation

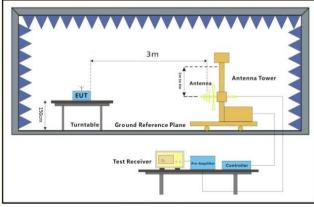
Operating Environment:

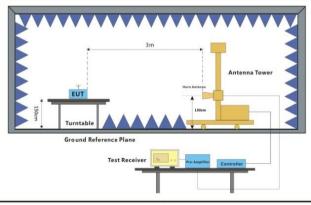
Temperature: Atmospheric Pressure: 1020 mbar 23.5 °C Humidity: 56.3 % RH

7.2.2 Test Mode Description

·				
Pre-scan / Final test	Mode Code	Description		
Pre-scan	01	TX mode_Keep the EUT in transmitting with modulation mode.		
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.		

7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c.The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g.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.
- h.Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i.The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j.Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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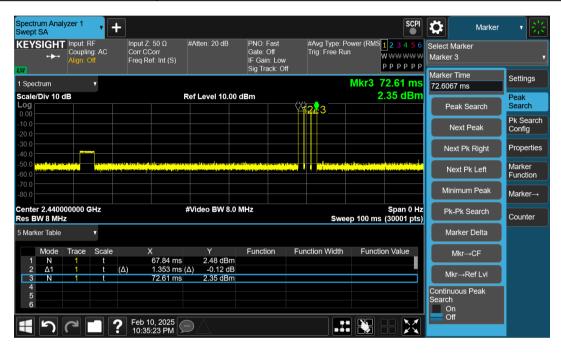
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Average value:

	Average value=Peak value + PDCF		
Calculate Formula:	PDCF=20 log(Duty cycle)		
	Duty cycle= T on time / T period		
	Ton time =1.353*3ms=4.059ms		
Toot data:	T period =100ms		
Test data:	Duty cycle=4.059%		
	PDCF value= -27.82dB		





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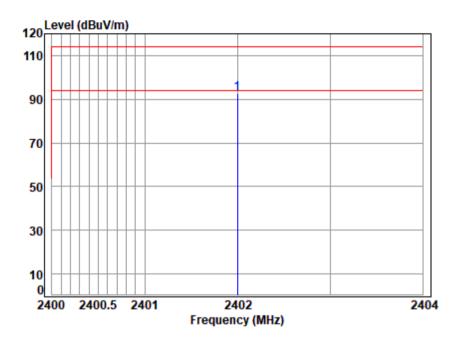


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

: 04711ME

Mode : 2402 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Frea Level Level Line Limit Remark

MHz dB dB/m dBuV dBuV/m dBuV/m

1 p 2402.000 15.82 29.09 32.77 80.63 92.77 114.00 -21.23 Peak



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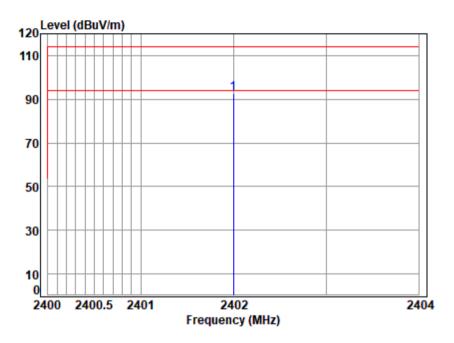


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2402 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Frea Level Level Line Limit Remark

MHz dB dB/m dBuV dBuV/m dBuV/m

1 p 2402.000 15.82 29.09 32.77 80.53 92.67 114.00 -21.33 Peak



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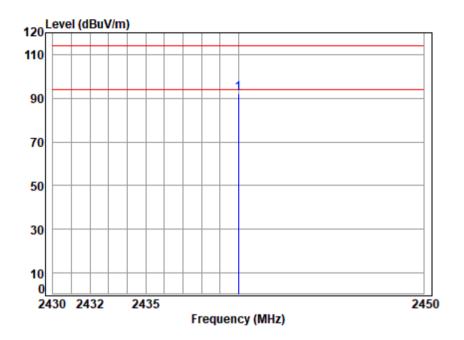


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



: chamber Site

Condition: 3m HORIZONTAL

: 04711ME

Mode : 2440 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Frea Level Level Line Limit Remark

dB dB/m dBuV dBuV/m dBuV/m

1 p 2440.000 15.84 28.94 32.75 80.31 92.34 114.00 -21.66 Peak



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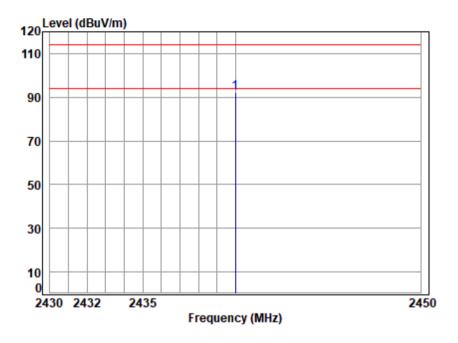


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



: chamber Site Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2440 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Frea Level Level Line Limit Remark

dB dB/m dBuV dBuV/m dBuV/m

1 p 2440.000 15.84 28.94 32.75 80.33 92.36 114.00 -21.64 Peak



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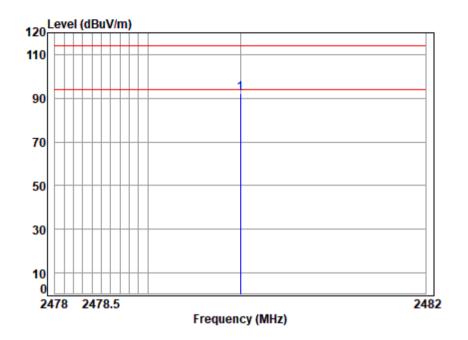


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 04711ME

Mode : 2480 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Frea Level Level Line Limit Remark

MHz dB dB/m dBuV dBuV/m dBuV/m

1 p 2480.000 15.86 28.90 32.73 79.99 92.02 114.00 -21.98 Peak



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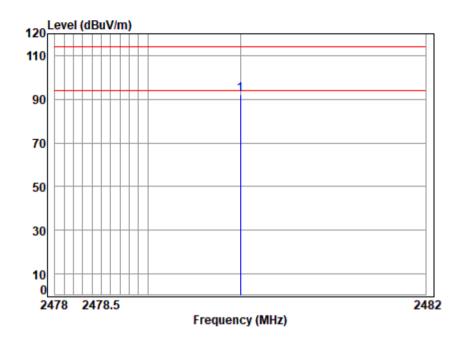


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2480 Field strength

> Cable Ant Preamp Limit 0ver Read

Loss Factor Factor Level Frea Line Limit Remark Level

MHz dB dB/m dBuV dBuV/m dBuV/m

1 p 2480.000 15.86 28.90 32.73 80.08 92.11 114.00 -21.89 Peak



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission 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.

7.3.1 E.U.T. Operation

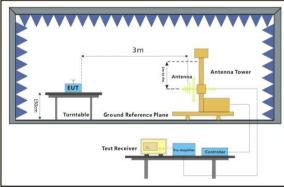
Operating Environment:

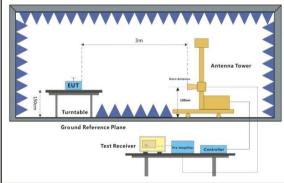
Temperature: Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar 23.5 °C

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.3.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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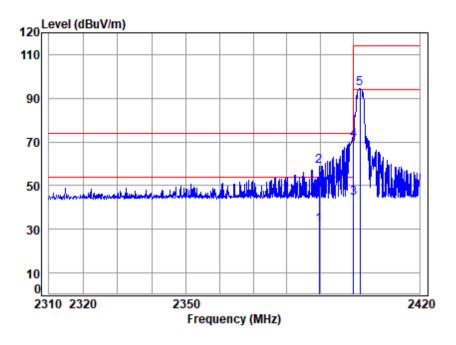


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04711ME

Mode : 2402 Band edge

		Frea			Preamp Factor					Remark
	-	MHz			dB					
				-			-	-		
1		2389.683	15.81	29.10	32.78	19.87	32.00	54.00	-22.00	Average
2		2389.683	15.81	29.10	32.78	46.57	58.70	74.00	-15.30	Peak
3	q	2400.000	15.82	29.10	32.78	31.90	44.04	54.00	-9.96	Average
4	p	2400.000	15.82	29.10	32.78	58.60	70.74	74.00	-3.26	peak
5		2402.000	15.82	29.09	32.77	82.30	94.44	114.00	-19.56	peak



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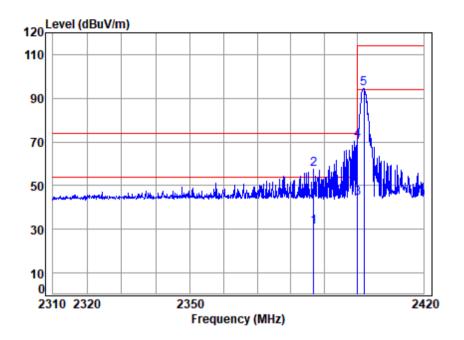


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 04711ME

Mode : 2402 Band edge

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Frea Line Limit Remark Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 2386.905 15.81 29.10 32.78 18.78 30.91 54.00 -23.09 Average 2386.905 15.81 29.10 32.78 45.48 57.61 74.00 -16.39 Peak 3 q 2400.000 15.82 29.10 32.78 31.91 44.05 54.00 -9.95 Average 4 p 2400.000 15.82 29.10 32.78 58.61 70.75 74.00 -3.25 peak 2402,000 15.82 29.09 32.77 82.49 94.63 114.00 -19.37 peak



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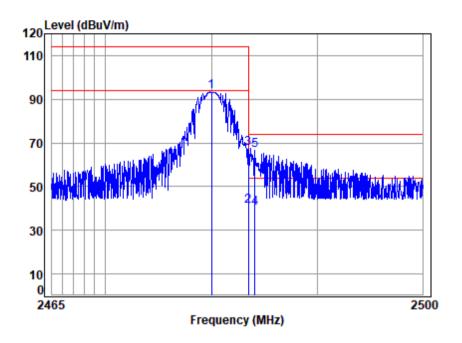


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04711ME

Mode : 2480 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	15.86	28.90	32.73	81.28	93.31	114.00	-20.69	peak
2 q	2483.500	15.86	28.90	32.73	28.99	41.02	54.00	-12.98	Average
3 p	2483.500	15.86	28.90	32.73	55.69	67.72	74.00	-6.28	peak
4	2484.119	15.86	28.90	32.73	28.01	40.04	54.00	-13.96	Average
5	2484.119	15.86	28.90	32.73	54.71	66.74	74.00	-7.26	Peak



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7.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
960-1000	500	3		

7.4.1 E.U.T. Operation

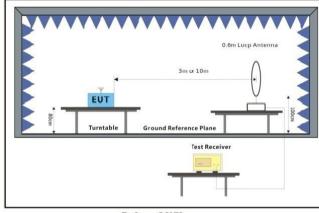
Operating Environment:

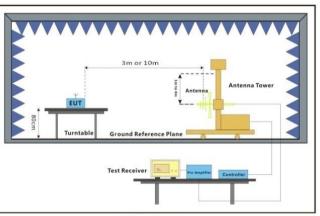
Humidity: 46.3 % RH Temperature: 18.6 °C Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

THE TOOLINGUO DOCTION										
Pre-scan / Final test	Mode Code	Description								
Pre-scan	01	TX mode_Keep the EUT in transmitting with modulation mode.								
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.								

7.4.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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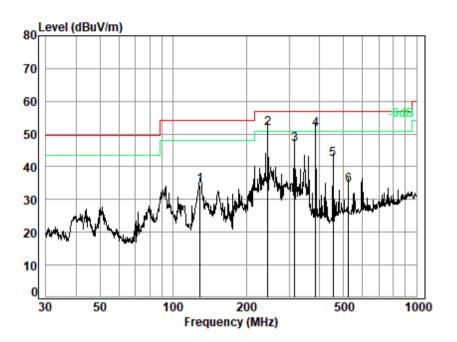


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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04711ME

Test Mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	129.015	10.99	1.42	27.47	49.43	34.37	54.00	-19.63	QP
2 q	245.090	17.10	1.98	26.98	59.57	51.67	56.90	-5.23	QP
3	315.481	18.41	2.27	26.81	52.83	46.70	56.90	-10.20	QP
4	385.281	20.89	2.53	27.10	55.17	51.49	56.90	-5.41	QP
5	454.310	21.21	2.77	27.38	45.64	42.24	56.90	-14.66	QP
6	524.554	23.24	3.00	27.66	35.90	34.48	56.90	-22.42	OP



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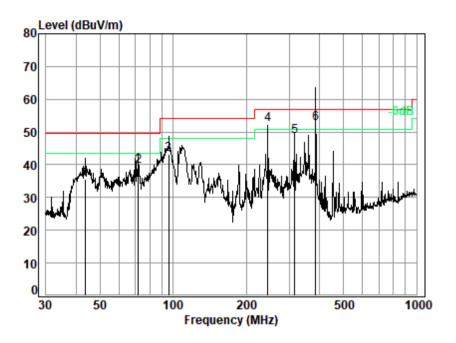


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Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04711ME

Test Mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	43.506	14.74	0.81	27.75	47.72	35.52	49.50	-13.98	QP
2	72.084	10.48	1.04	27.67	55.59	39.44	49.50	-10.06	QP
3	96.099	12.17	1.20	27.60	57.48	43.25	54.00	-10.75	QP
4	245.090	17.10	1.98	26.98	60.17	52.27	56.90	-4.63	QP
5	315.481	18.41	2.27	26.81	54.66	48.53	56.90	-8.37	QP
6 a	385.281	20.89	2.53	27.10	56.41	52.73	56.90	-4.17	OP



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7.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.5.1 E.U.T. Operation

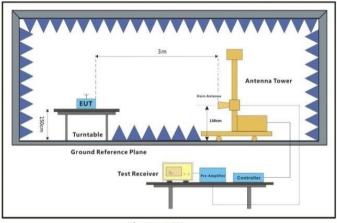
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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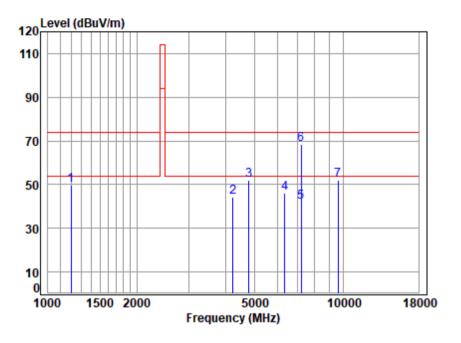


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04711ME

Mode : 2402 TX RSE

ad Limit Over el Level Line Limit Remark
el Level Line Limit Remark
uV dBuV/m dBuV/m dB
25 49.53 74.00 -24.47 peak
42 44.18 74.00 -29.82 peak
82 51.92 74.00 -22.08 peak
10 46.14 74.00 -27.86 peak
12 41.96 54.00 -12.04 Average
82 68.66 74.00 -5.34 peak
56 52.04 74.00 -21.96 peak
82 68.66 74.00 -5.34 p



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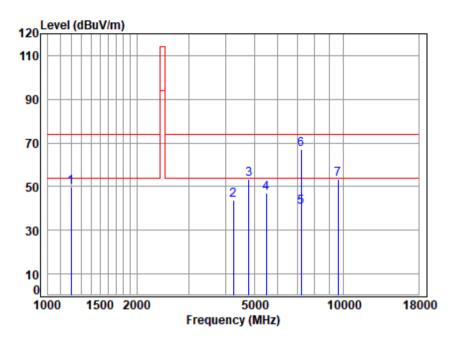


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2402 TX RSE

		_			Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1199.726	4.56	24.40	54.68	75.62	49.90	74.00	-24.10	peak
2		4254.921	8.19	33.82	54.27	56.16	43.90	74.00	-30.10	peak
3		4804.000	8.00	34.32	54.22	65.11	53.21	74.00	-20.79	peak
4		5487.260	9.27	34.55	53.64	56.74	46.92	74.00	-27.08	peak
5	q	7206.000	9.32	35.70	53.18	48.69	40.53	54.00	-13.47	Average
6	p	7206.000	9.32	35.70	53.18	75.39	67.23	74.00	-6.77	peak
7		9608.000	11.41	37.42	53.35	57.75	53.23	74.00	-20.77	peak



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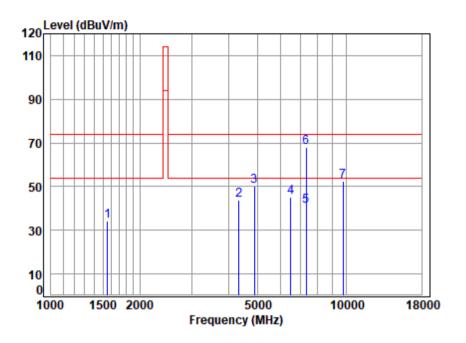


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04711ME

Mode : 2440 TX RSE

		_			Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1551.677	4.68	26.99	54.79	57.22	34.10	74.00	-39.90	peak
2		4329.354	8.09	34.23	54.26	55.87	43.93	74.00	-30.07	peak
3		4880.000	8.03	34.62	54.21	61.74	50.18	74.00	-23.82	peak
4		6488.754	9.15	35.58	53.15	53.66	45.24	74.00	-28.76	peak
5	q	7320.000	9.21	35.70	53.17	49.42	41.16	54.00	-12.84	Average
6	р	7320.000	9.21	35.70	53.17	76.12	67.86	74.00	-6.14	peak
7		9760.000	11.32	37.38	53.29	57.00	52.41	74.00	-21.59	peak



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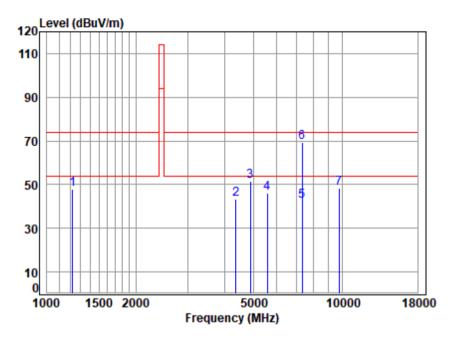


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2440 TX RSE

		Enga			Preamp Factor					Romank
		rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1220.714	4.56	24.69	54.69	73.23	47.79	74.00	-26.21	peak
2		4367.058	8.04	34.54	54.26	55.17	43.49	74.00	-30.51	peak
3		4880.000	8.03	34.62	54.21	63.33	51.77	74.00	-22.23	peak
4		5583.251	9.34	34.70	53.53	55.58	46.09	74.00	-27.91	peak
5	q	7320.000	9.21	35.70	53.17	50.84	42.58	54.00	-11.42	Average
6	р	7320.000	9.21	35.70	53.17	77.54	69.28	74.00	-4.72	peak
7		9760.000	11.32	37.38	53.29	53.10	48.51	74.00	-25.49	peak



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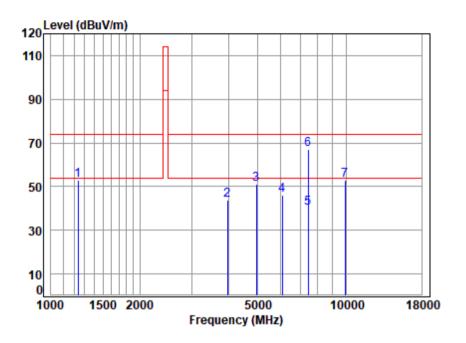


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04711ME

Mode : 2480 TX RSE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1238.483	4.56	24.94	54.69	78.30	53.11	74.00	-20.89	peak
2		3969.767	8.47	33.30	54.32	56.17	43.62	74.00	-30.38	peak
3		4960.000	8.06	34.56	54.20	62.78	51.20	74.00	-22.80	peak
4		6071.417	9.46	35.04	53.11	54.61	46.00	74.00	-28.00	peak
5	q	7440.000	9.09	35.96	53.15	48.41	40.31	54.00	-13.69	Average
6	p	7440.000								_
7		9920.000	11.23	37.30	53.23	57.48	52.78	74.00	-21.22	peak



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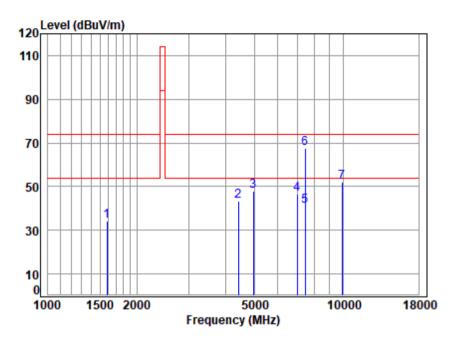


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04711ME

Mode : 2480 TX RSE

	Enoa			Preamp Factor					Romank
	rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	4.75	26.87	54.80	57.34	34.16	74.00	-39.84	peak
2	4417.841	7.97	34.59	54.26	55.10	43.40	74.00	-30.60	peak
3	4960.000	8.06	34.56	54.20	59.61	48.03	74.00	-25.97	peak
4	6995.172	9.53	35.71	53.20	54.59	46.63	74.00	-27.37	peak
5 q	7440.000	9.09	35.96	53.15	49.13	41.03	54.00	-12.97	Average
6 p	7440.000	9.09	35.96	53.15	75.83	67.73	74.00	-6.27	peak
7	9920.000	11.23	37.30	53.23	56.76	52.06	74.00	-21.94	peak



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7.6 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.6.1 E.U.T. Operation

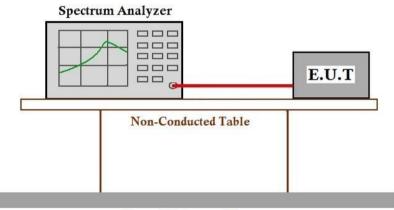
Operating Environment:

Temperature: 23.4 °C Atmospheric Pressure: 1020 mbar Humidity: 53.8 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	02	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results		
Lowest	4.473	Pass		
Middle	2.743	Pass		
Highest	0.7345	Pass		



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2402MHz



2440MHz





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2480MHz





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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2412004711ME

EUT Constructional Details (EUT Photos) 9

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2412004711ME - End of the Report -



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