

age: 1 of 25

TEST REPORT

Application No.: BTEK240509010AE

Applicant: Shenzhen Litime Technology Co., Ltd

Address of Applicant: Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong

Street, Shenzhen, China.

Manufacturer: Shenzhen Litime Technology Co., Ltd

Address of Manufacturer: Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong

Street, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Litime 12.8V 50Ah Smart TM LiFePO4 Battery

Test Model.: 12.8V 50Ah Smart TM

Adding Model(s): 12.8V 50Ah,12.8V 50Ah TM,12.8V 50Ah Plus,12.8V 50Ah Pro,12.8V 50Ah

Smart,12.8V 50Ah Mini, 12.8V 50Ah Max,12.8V 50Ah LTCP,12.8V 50Ah H190,12.8V 50Ah Group 24,12.8V 50Ah Group 31,12.8V 50Ah,Group

22NF, 12.8V 50Ah Smart Group 31,12.8V 50Ah GC Smart

Trade Mark: Litime

FCC ID: 2BDSV1250

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2024-05-14

Date of Test: 2024-05-22 to 2024-06-10

Date of Issue: 2024-06-14

Test Result: Pass*

Lion Cai/ Approved & Authorized EMC Laboratory Manager

ShenZhen BANTEK Testing Co.,Ltd.

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



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Revision Record					
/ersion	Chapter	Date	Modifier	Remark	
V0		2024-06-14		Original	
			0		

Authorized for issue by		
TEX. 15	Zora. Huang	
8,00	Zora Huang/Project Engineer	
0	David Throng	
	David Zhuang/Reviewer	- 0 0

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2 Test Summary

Radio Spectrum Technical Requirement						
Standard	Item	Method	Requirement	Result		
Antenna Requirement	3 47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Item	Standard	Method	Requirement	Result	
	Conducted Emissions at AC Power Line (150kHz-30MHz)	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A*	
	Conducted Peak Output Power	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
	Minimum 6dB Bandwidth	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
47 CFR Part 15,	Power Spectrum Density	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Subpart C 15.247	Conducted Band Edges Measurement	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
	Conducted Spurious Emissions	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
	Radiated Emissions which fall in the restricted bands	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
	Radiated Spurious Emissions	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A*:Not Application.

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4 General Information

4.1 Details of E.U.T.

Power supply:	12.8V Battery	
Frequency Range:	2402MHz to 2480MHz	0
Bluetooth Version:	V5.0 BLE	
Modulation Type:	GFSK	
Number of Channels:	40	0 0
Antenna Type:	PCB Antenna	0 0
Antenna Gain:	1.2dBi	
Sample No.:	BTEK240509010AE-01	
111		

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

4.2 Description of Support Units

Test Mode	Description	Remark			
1	Low/mid/High Channel	2402MHz/2440MHz/2480MHz			
Remark:1.only show the worst case in the test report.					

Test Conditions					
Temperature:	22~25 °C				
Relative Humidity:	45~55 %				
ATM Pressure:	1010 mbar				

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB		
Conducted Peak Output Power	± 0.75dB		
Minimum 6dB Bandwidth	± 3%		
Power Spectrum Density	± 2.84dB		
Conducted Band Edges Measurement	± 0.75dB		
Conducted Spurious Emissions	± 0.75dB		
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)		
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		

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4.4 Test Location

All tests were performed at:

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Shenzhen, Guangdong, China 518104

Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200

FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

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Equipment List

Conducted Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	
Shielding Room	YIHENG ENECTRONIC	9*5*3.3	YH-BT-220304-04	2022-03-03	2025-03-02	
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2023-06-12	2024-06-11	
Measurement Software	Fara 🔵	EZ_EMC Ver. FA-03A2	N/A	N/A	N/A	
LISN	Rohde&Schwarz	ENV216	101472	2023-06-12	2024-06-11	
LISN	Schwarzbeck	NSLK 8128	05127	2023-06-12	2024-06-11	

			11 38838 . (1			
RF Conducted	· 37		11 11 17)))	11	
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date	
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2022-03-03	2025-03-02	
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2023-06-12	2024-06-11	
DC Power Supply	E3632A	E3642A	KR75304416	2023-06-12	2024-06-11	
Attenuator	RswTech	SMA-JK-6dB	N/A	2023-06-12	2024-06-11	
Attenuator	RswTech	SMA-JK-3dB	N/A	2023-06-12	2024-06-11	
RF Control Unit	Techy	TR1029-1	N/A	2023-06-12	2024-06-11	
RF Sensor Unit	Techy	TR1029-2	N/A	2023-06-12	2024-06-11	
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	141258	2023-06-12	2024-06-11	
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2023-06-12	2024-06-11	
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2023-06-12	2024-06-11	
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A	

RSE						
Equipment	Manufacturer	Model No	Model No Serial No		Cal Due Date	
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT- 220304-01	2022-05-06	2025-05-05	
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2023-06-12	2024-06-11	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2022-06-15	2025-06-14	
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2023-06-12	2024-06-11	
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	2023-06-12	2024-06-11	
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2023-06-12	2024-06-11	
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2022-06-15	2025-06-14	
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2023-06-12	2024-06-11	

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Horn Antenna	SCHWARZBECK	BBHA9170	1157	2022-06-15	2025-06-14
Low Noise Pre-amplifier	SKET	LNPA-1840G- 50	SK2022032902	2023-06-12	2024-06-11
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2023-06-12	2024-06-11
Loop Antenna	ETS	6502	00201177	2022-06-15	2025-06-14

General used equipment										
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date					
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2023-06-12	2024-06-11					
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2023-06-12	2024-06-11					

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

This product has an Integral antenna, fulfill the requirement of this section.

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Radio Spectrum Matter Test Results

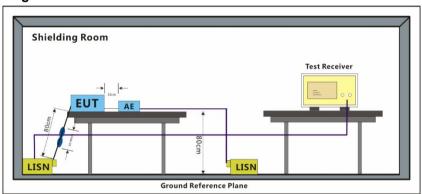
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

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

Limit:

Francisco (MIII)	Conducted	d limit(dBµV)
Frequency of 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 f	requency.	C - 374 111
Detector: Peak for pre-scan (9kHz res	colution bandwidth) 0.15M to 3	0MHz

7.1.1 Test Setup Diagram



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

Not Application.

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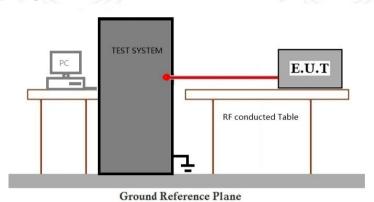
7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)			
	1 for ≥50 hopping channels			
902-928	0.25 for 25≤ hopping channels <50			
	1 for digital modulation			
<u> </u>	1 for ≥75 non-overlapping hopping channels			
2400-2483.5	0.125 for all other frequency hopping systems			
// Jak	1 for digital modulation			
5725-5850	1 for frequency hopping systems and digital modulation			

7.2.1 Test Setup Diagram



7.2.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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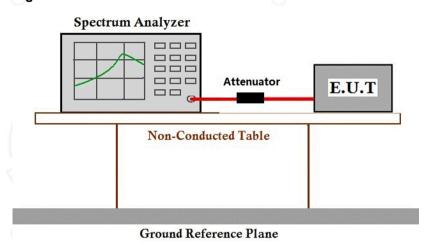
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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.3.1 Test Setup Diagram



7.3.2 Measurement Procedure and Data

cable loss=0.83dB

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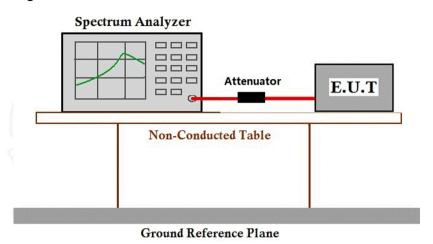
7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 Test Setup Diagram



7.4.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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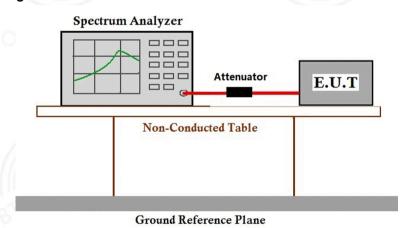
7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 Test Setup Diagram



7.5.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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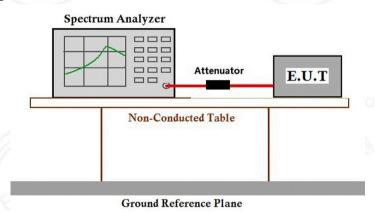
7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.6.1 Test Setup Diagram



7.6.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

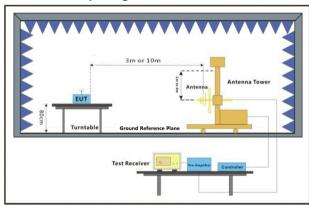
Test Method: ANSI C63.10 (2013) Section 6.10.5

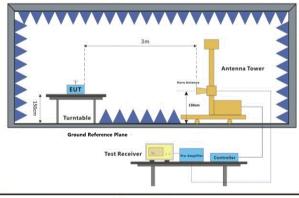
Limit:

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.7.1 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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7.7.2 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 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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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Polarity: Horizontal; Modulation:GFSK; ; Channel:Low

			,	•				
	Frequency	Reading	Factor	Level	Limit	Margin(dB	Detecto	20
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)		r	P/F
1	2310.000	67.67	-30.59	37.08	74.00	-36.92	peak	Р
2	2390.000	69.18	-30.49	38.69	74.00	-35.31	peak	P
3	2400.000	76.70	-30.48	46.22	74.00	-27.78	peak	Р

Vertical; Modulation:GFSK; ; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB	Detecto r	P/F
1	2310.000	67.87	-30.59	37.28	74.00	-36.72	peak	P ///
2	2390.000	68.48	-30.49	37.99	74.00	-36.01	peak	Р
3	2400.000	76.27	-30.48	45.79	74.00	-28.21	peak	P

Horizontal; Modulation:GFSK; ; Channel:High

	Frequency	Reading	Factor	Level	Limit (dBuv/m	Margin(dB	Detecto	0
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	`)) `	r	P/F
1	2483.500	78.79	-30.39	48.40	74.00	-25.60	peak	Р
2	2500.000	72.85	-30.37	42.48	74.00	-31.52	peak	Р

Vertical; Modulation:GFSK; ; Channel:High

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	Frequency	Reading	Factor	Level	Limit	Margin(dB	Detecto	1//		
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m))	r	P/F		
1	2483.500	78.66	-30.39	48.27	74.00	-25.73	peak	Р		
2	2500.000	71.53	-30.37	41.16	74.00	-32.84	peak	Р		

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7.8 Radiated Spurious Emissions

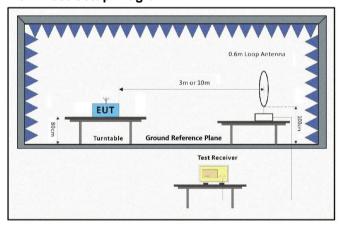
Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

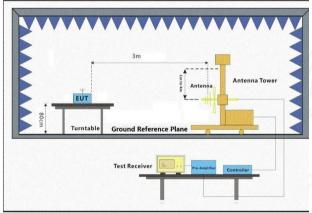
Limit:

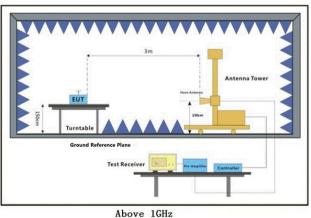
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.8.1 Test Setup Diagram







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7.8.2 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. 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 peak, quasi-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.
- 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 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
- 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, quasi-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.

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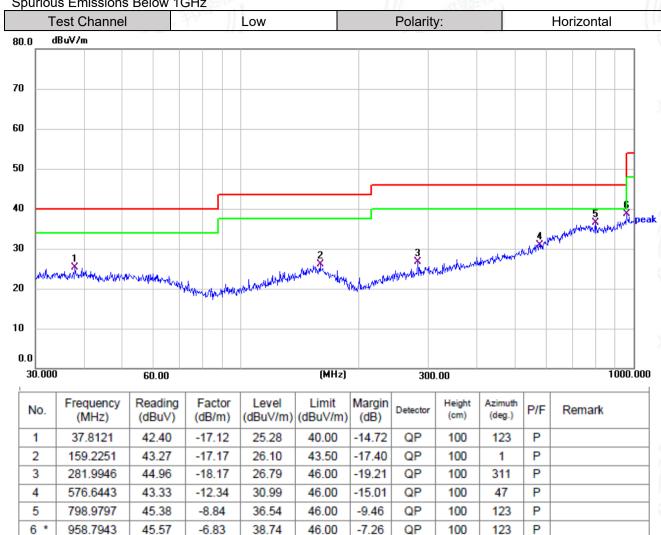
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Spurious Emissions Below 1GHz



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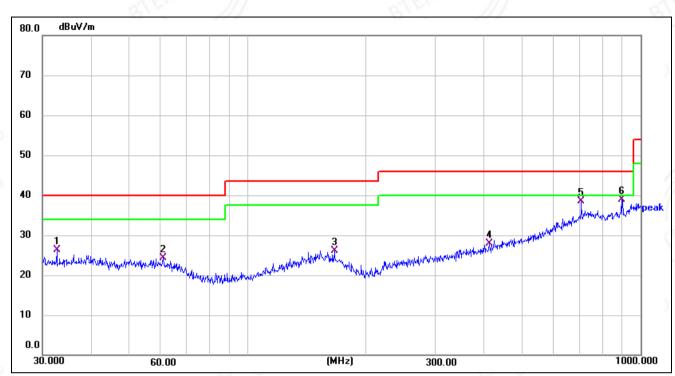
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Test Channel	Low	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.6340	44.13	-17.77	26.36	40.00	-13.64	QP	100	111	Р	
2	60.9176	42.58	-18.24	24.34	40.00	-15.66	QP	100	11	Р	
3	166.0680	44.01	-17.86	26.15	43.50	-17.35	QP	100	173	Р	
4	411.8240	43.02	-15.11	27.91	46.00	-18.09	QP	100	248	Р	
5	706.6999	48.03	-9.60	38.43	46.00	-7.57	QP	100	186	Р	
6 *	893.8567	46.87	-8.04	38.83	46.00	-7.17	QP	100	352	Р	

Remark:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor

3) Scan from 9kHz to 1 GHz, 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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Polarity: Horizontal; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
110.	(1411 12)	(abav)	(40/111)	(abaviii)	(abaviii)	Margin(ab)	Dotootoi	. /.
1	4802.405	70.38	-29.03	41.35	74.00	-32.65	peak	Р
2	7206.573	67.38	-25.70	41.68	74.00	-32.32	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:Low

	Frequency	Readin	Factor	Level	Limit	0 0		
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	4802.251	68.87	-28.32	40.55	74.00	-33.45	peak	P
2	7206.019	66.74	-24.85	41.89	74.00	-32.11	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4879.827	70.78	-27.59	43.19	74.00	-30.81	peak	Р
2	7319.827	68.99	-25.01	43.98	74.00	-30.02	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4879.016	70.14	-27.69	42.45	74.00	-31.55	peak	Р
2	7320.457	67.11	-24.21	42.90	74.00	-31.10	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4959.913	68.62	-27.94	40.68	74.00	-33.32	peak	Р
2	7439.715	68.72	-25.40	43.32	74.00	-30.68	peak	P

Polarity: Vertical; Modulation:GFSK; Channel:High

	0.77	Readin	99		B. T. C.	///		7.0
	Frequency	g	Factor	Level	Limit	27		100
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	4960.136	69.51	-27.97	41.54	74.00	-32.46	peak	P
2	7440.696	67.57	-24.53	43.04	74.00	-30.96	peak	Р

Remak:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor

2) Testing is carried out with frequency rang 1GHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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3) If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

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8 Test Setup Photo

Please refer to the Appendix Test Setup Photos

9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos

- End of the Report -

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