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FCC ID: 2AFF6-4GLC

Report No.: LCSA041323069EA

FCC TEST REPORT

FOR

Adam Hall GmbH

Track lighting

Test Model: CLG4FC

Additional Model No.: CLG4TW

: Adam Hall GmbH

Prepared for Address

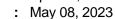
Prepared by

Address

Tel Fax Web Mail

Date of receipt of test sample Number of tested samples Sample No. Sample number Date of Test Date of Report

Adam-Hall-Str.1, 61267 Neu-Anspach, Germany • : Shenzhen LCS Compliance Testing Laboratory Ltd 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China (+86)755-82591330 (+86)755-82591332 3 www.LCS-cert.com 14 webmaster@LCS-cert.com • : April 21, 2023 : 2 A041323069-1, A041323069-2 : : Prototype : April 21, 2023 ~ May 08, 2023





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	FCC TEST REPORT FCC CFR 47 PART 15 C (15.249)	
Report Reference No.		100 100
Date of Issue		
Testing Laboratory Name	: Shenzhen LCS Compliance Testing L	aboratory Ltd.
Address		strial Park Yabianxueziwei, n, 518000, China
Testing Location/ Procedure	Full application of Harmonised standards Partial application of Harmonised standard Other standard testing method □	
Applicant's Name	: Adam Hall GmbH	Test room
Address	: Adam-Hall-Str.1, 61267 Neu-Anspach, C	Germany
Test Specification		
Standard	: FCC CFR 47 PART 15 C(15.249) / ANS	I C63.10: 2013
Test Report Form No	: LCSEMC-1.0	
TRF Originator	: Shenzhen LCS Compliance Testing Lab	oratory Ltd.
Master TRF	: Dated 2011-03	
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Test Item Description	: Track lighting	
Trade Mark	: Cameo	
Test Model	: CLG4FC	
Ratings	: Input: AC 100-240V, 50/60Hz, Max 40W	立 其 訳 the Wing Lab
Result	: Positive	LCS 10
Compiled by:	Supervised by:	Approved by:
1	(and) and	
KayHu		Hains Tiang
ドロノHル Kay Hu/ Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager
KayHU Kay Hu/ Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager





FCC ID: 2AFF6-4GLC

Report No.: LCSA041323069EA

May 08, 2023





Test Report No. :	LCSA041323069EA	Date of issue
Test Model	: CLG4FC	
EUT	: Track lighting	
Applicant	: Adam Hall GmbH	
Address	Adam-Hall-Str.1, 61267 Neu-A	nspach, Germany
Telephone	: /	
Fax	: /	
Manufacturer	: CKC Lighting Co., Ltd	an th
Address	: Guan Keng Gongye Yuan, Bui Guangzhou 510300, China	Iding#A, 2nd Floor, Dashi, Panyu,
Telephone	: /	
Fax	: /	
Factory	: CKC Lighting Co., Ltd	
Address	Guan Keng Gongye Yuan, Bui [:] Guangzhou 510300, China	Iding#A, 2nd Floor, Dashi, Panyu,
Telephone	: /	
Fax	: /	

Test Result	Positive
-------------	----------

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Report No.: LCSA041323069EA

	Revisi	on History	
Report Version	Issue Date	Revision Content	Revised By
000	May 08, 2023	Initial Issue	





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1.2. Support Equipment List

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Tw	Manufacturer	Description	Model	Serial Number	Certificate
100					The Part

1.3. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Testing		9KHz~30MHz	±3.10dB	(1)
LC3		30MHz~200MHz	±2.96dB	··· (1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



1.7. Description of Test Modes

Operates in the unlicensed ISM Band at 2.4GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case;

AC conducted emission pre-test at power adapter modes, recorded worst case;

	Mode of Operations	Frequency Ran (MHz)	ge Data Rate (Mbps)	
GFSK		2402		- 10 - 7
		2442		Hur at
	STess	2479		5 V 35
	F	For Conducted Emis	sion	
	Test Mode		TX Mode	
		For Radiated Emiss	ion	
	Test Mode		TX Mode	

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX.

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)	Channel	Frequency (MHz)
LCP Tesu	2402	21 05	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460		市市检测
20	2421	40	2441	60	2461		ST LOSTES



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2. TEST METHODOLOGY

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All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013



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3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the batter. When press the "up" button, it'll move to the next channel. Repeat press "up" button, it'll transmitting at each of the channel used.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC	Part 15 Subpart C §15.249	
FCC Rules	Description Of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Power Line Conducted Emissions	Compliant
§15.205(a), §15.209(a), §15.249(a), §15.249(c)	Radiated Emissions Measurement	Compliant
§15.249 (d)	Band Edges Measurement	Compliant
§15.215(c)	20 dB Bandwidth	Compliant







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5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203 and RSS-Gen, 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 shall be considered sufficient to comply with the provisions of this section. 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.

5.2. Antenna Connected Construction

The EUT use Internal Antenna and maximum antenna gain is 2.0dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance



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6. POWER LINE CONDUCTED EMISSIONS

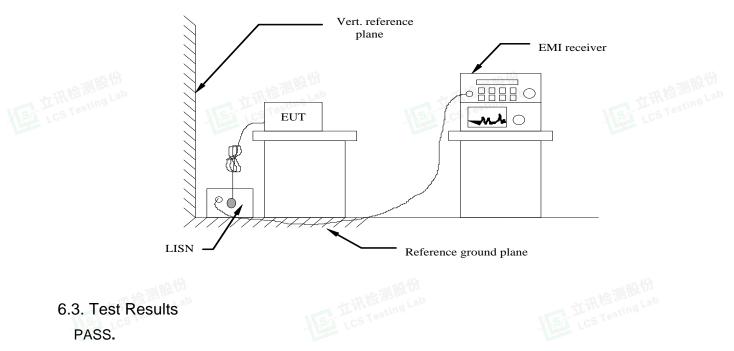
6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: For an intentional radiator which is designed to be connected to the public utility (AC) power line, 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

* Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup



The test data please refer to following page.

Temperature	23.5 ℃	Humidity	53.6%	
Test Engineer	Taylor Hu			



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Line								
80.0	dBuV	155 10	5.0	X	SI LOSTES		М	SA LOS IS
70								
60					F	CC PART 15C	Conduction(QP	1
ŀ	1				FI	CC PART 15C C	Conduction(AV	i)
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40				z	9	water at the make	Muni 11	
30	- VILlown W	man man harman	5	Window of the and the	10			My Luch
20	1 Martine 14	-	well walk work				Margare 1	peak
10								AVG
0								
-10								
-20								
0.1	150	0.500 0.8 Reading	Correct	(MHz) Measure	5.000			30.000
No.	Mk. Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.163	6 29.68	19.63	49.31	65.28	-15.97	QP	
2	* 0.163	6 27.09	19.63	46.72	55.28	-8.56	AVG	
3	0.343	6 13.13	19.63	32.76	59.12	-26.36	QP	
4	0.343	6 5.36	19.63	24.99	49.12	-24.13	AVG	
5	1.018	6 8.80	19.65	28.45	56.00	-27.55	QP	
6	1.018	6 -1.52	19.65	18.13	46.00	-27.87	AVG	
7	2.859	1 11.97	19.68	31.65	56.00	-24.35	QP	
8	2.859	1 1.85	19.68	21.53	46.00	-24.47	AVG	
9	4.069	6 13.40	19.70	33.10	56.00	-22.90	QP	
10	4.069	6 3.64	19.70	23.34	46.00	-22.66	AVG	
11	18.910	6 24.99	20.18	45.17	60.00	-14.83	QP	
12	18.910	6 9.81	20.18	29.99	50.00	-20.01	AVG	
	- 115		- 115			. 115		



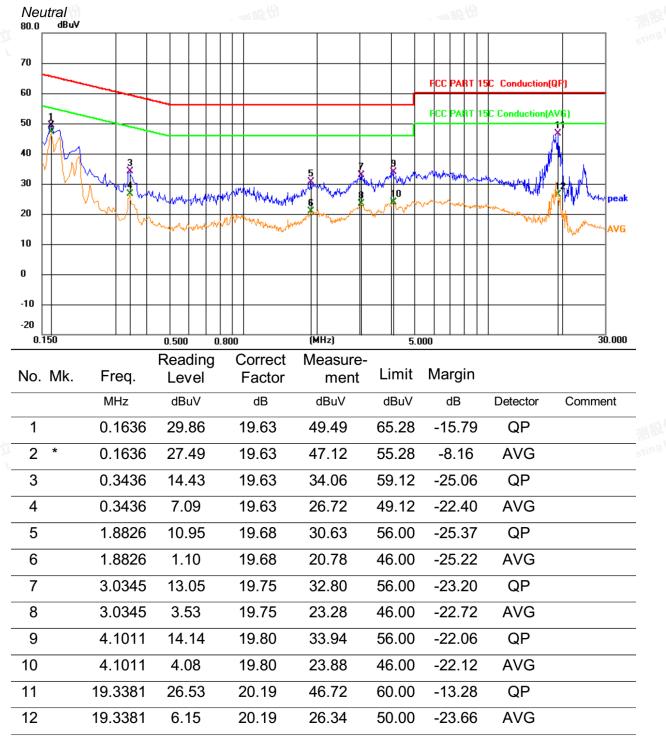
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***Note: Pre-scan all modes and recorded the worst case results in this report (GFSK (High Channel).

Measurement= Reading + Correct Factor, Margin = Measurement – Limit. Correct Factor=Lisn Factor+Cable Factor



7. RADIATED EMISSION MEASUREMENT

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7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental Frequency	Field Strength of fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Frequencies (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	sting Lab 3		
Above 960	500	3		

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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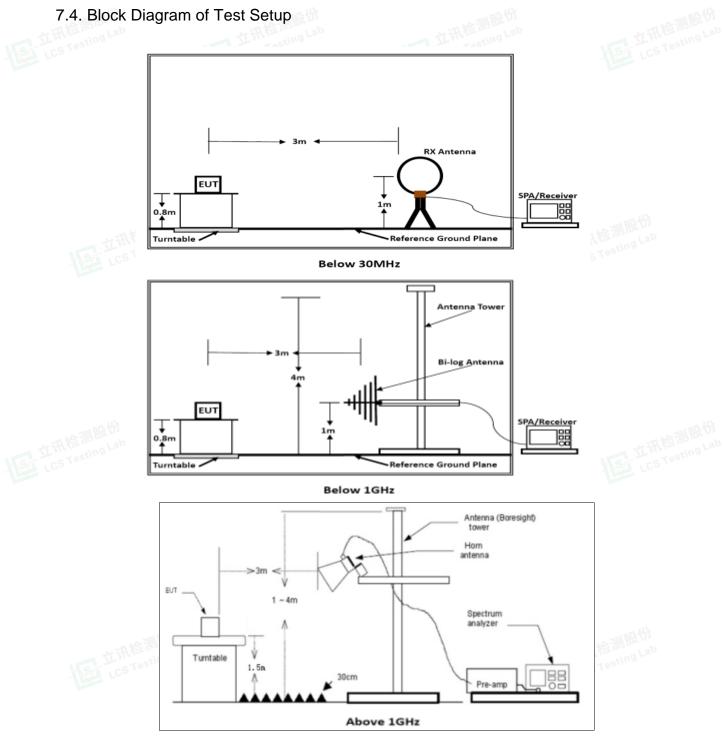
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Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.





7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

7.6. Test Results of R	adiated Emissions (9	KHz~30 MHz)		
Temperature	23.8 °C	Humidity	52.1%	
Test Engineer	Taylor Hu			

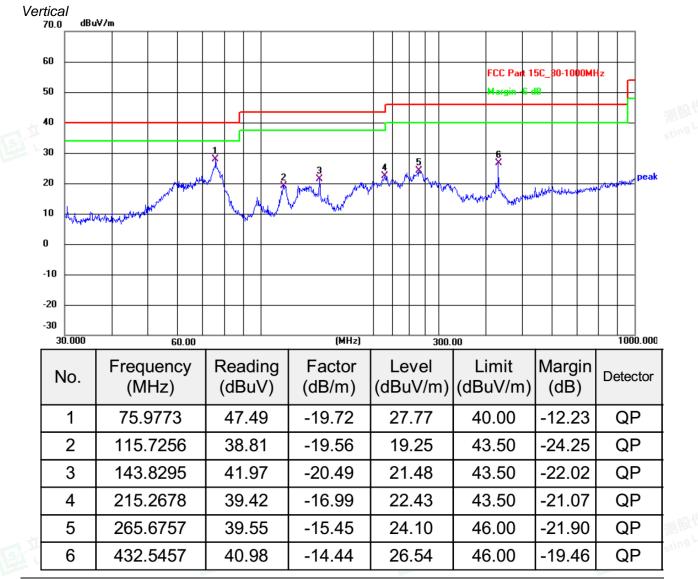
Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

7.7. Test Results of Radiated Emissions (30 MHz - 1000 MHz)

n	o need to be reported.			
7	.7. Test Results of Ra	adiated Emissions (30	0 MHz – 1000 MHz)	
	Temperature	23.8 ℃	Humidity	52.1%
	Test Engineer	Taylor Hu		

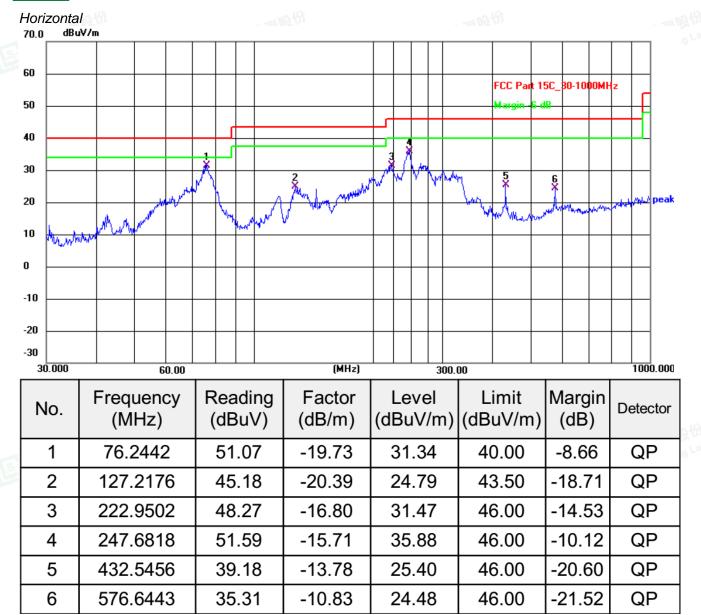




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Note:

1). Pre-scan all modes and recorded the worst case results in this report (GFSK (High Channel)).

2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

3). Level = Reading + Factor, Margin = Level – Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor



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7.8. Results for Radiated Emissions (1 – 26 GHz)

Lap	L SALE I AP				
Temperature	Temperature 23.8°C		52.1%		
Test Engineer	Taylor Hu	Configurations	TX		

Channel 1 / 2402 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4804.00	60.96	33.06	35.04	3.94	62.92	74.00	-11.08	Peak	Horizontal
4804.00	42.42	33.06	35.04	3.94	44.38	54.00	-9.62	Average	Horizontal
4804.00	59.69	33.06	35.04	3.94	61.65	74.00	-12.35	Peak	Vertical
4804.00	42.67	33.06	35.04	3.94	44.63	54.00	-9.37	Average	Vertical

Channel 41 / 2442 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4884.00	59.31	33.16	35.15	3.96	61.28	74.00	-12.72	Peak	Horizontal
4884.00	45.38	33.16	35.15	3.96	47.35	54.00	-6.65	Average	Horizontal
4884.00	57.94	33.16	35.15	3.96	59.91	74.00	-14.09	Peak	Vertical
4884.00	41.49	33.16	35.15	3.96	43.46	54.00	-10.54	Average	Vertical

Channel 78 / 2479 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4958.00	59.14	33.26	35.14	3.98	61.24	74.00	-12.76	Peak	Horizontal
4958.00	41.90	33.26	35.14	3.98	44.00	54.00	-10.00	Average	Horizontal
4958.00	54.98	33.26	35.14	3.98	57.08	74.00	-16.92	Peak	Vertical
4958.00	44.86	33.26	35.14	3.98	46.96	54.00	-7.04	Average	Vertical

Notes:

1). Measuring frequencies from 9 KHz - 10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.

2). Radiated emissions measured in frequency range from 9 KHz - 10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.

3). 18~25 GHz at least have 20dB margin. No recording in the test report.

4). Measured Level = Reading Level + Factor, Margin = Level - Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor



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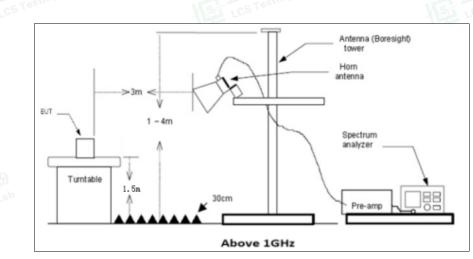
8. RESULTS FOR BAND EDGE TESTING

8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

8.2. Test Setup Layout



8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

8.4. Test Procedures

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.



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--- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^{\circ}$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

8.5. Measuring Instruments and Setting

Temperature	23.5 ℃	Humidity	52.1%
Test Engineer	Taylor Hu		

PASS

Remark:

- 1. The other emission levels were very low against the limit.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.
- 3. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak;
- 4. Please refer to following test plots;



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	3	2	369	.360)	5	3.85	-11	.80	42	2.05	74.0	0	-3	1.9	95	pea	ak	
	4	2	390	.000)	5	5.28	-11	.73	43	3.55	74.0	0	-3	0.4	.5	pea	ak	
	5	2	400	.000)	5	7.72	-11	1.70	46	6.02	74.0	0	-2	7.9	8	pea	ak	
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4	2490.19	90	49	9.86	-1	1.3	7	38	8.49	74.0	00	-35.	51	peal	k
5	2493.40	00	4	8.47	-1	1.3	7	37	7.10	74.0	00	-36.	90	peal	k
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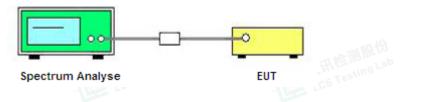
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9. 20 DB BANDWIDTH MEASUREMENT

9.1. Standard Applicable

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 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.

9.2. Block Diagram of Test Setup



9.3. Test Procedure

Use the following spectrum analyzer settings:

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Span = 5kHz

RBW = 510 Hz

VBW = 1.5 KHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).





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9.4. Test Results

9	Temperature	23.5 ℃	Humidity	52.2%	10-
	Test Engineer	Taylor Hu			

	Test Result	Test Result of 20dB Bandwidth Measurement									
Test Frequency	99% Bandwidth	20dB Bandwidth	Limit								
(MHz)	(KHz)	(KHz)	(MHz)								
2402	972.47	1129	Non-Specified								
2442	994.56	1101	Non-Specified								
2479	992.83	1101	Non-Specified								

Remark:

1. Test results including cable loss;

2. Please refer following test plots;

	20dB Bandwidth
GFSK	GFSK
Active Spectrum Analyzer State S	Center Freq 2.442000000 GHz Center Freq 2.442000000 GHz Radio Std: None Trig: Free Run Avg Hold>10/10
10 deldav Ref 10.00 dBm	to dB/div Ref 10.00 dBm Log
000 Center 2.402 GHz \$Paat Res BW 100 kHz \$VBW 300 kHz \$vee	a00 n 3 MHz p 1 ms Bres BW 100 kHz \$PBW 300 kHz \$Pep 1 ms
Occupied Bandwidth Total Power -1.69 dBm 972.47 KHz Transmit Freq Error 6.994 kHz OBW Power 99.00 % x dB Bandwidth 1.129 MHz x dB -20.00 dB	Occupied Bandwidth Total Power -3.85 dBm 994.56 kHz Transmit Freq Error 23.066 kHz OBW Power 99.00 % x dB Bandwidth 1.101 MHz x dB -20.00 dB
Alford Spectrum Analyzer - Occupied IW	2442MHz
Center Freq 2.479000000 GHz entroffee 2.9700000 GHz fifGainLow entroffee 2.9700000 GHz fifGainLow fifGainLow	
10 dBd/w Ref 10.00 dBm	n3 Miz
#Res BW 100 kHz #VBW 300 kHz Swee	n 3 MHz pp 1 ms
Occupied Bandwidth Total Power -3.03 dBm 992.83 kHz	
Transmit Freq Error -29.157 kHz OBW Power 99.00 % x dB Bandwidth 1.101 MHz x dB -20.00 dB	



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10. LIST OF MEASURING EQUIPMENT

ltem	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022-10-2 9	2023-10-2 8
2	DC Power Supply	Agilent	E3642A	N/A	2022-10-2 9	2023-10-2 8
3	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-0 6	2023-10-0 5
4	EMI Test Software	AUDIX	E3	/	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-1 6	2023-06-1 5
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-2 9	2024-08-2 8
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-1 2	2024-09-1 1
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-0 5	2024-09-0 4
10	EMI Test Receiver	R&S	ESR 7	101181	2022-06-1 6	2023-06-1 5
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-2 9	2023-10-2 8
12	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-1 6	2023-06-1 5
13	EMI Test Receiver	R&S	ESPI	101940	2022-08-1 8	2023-08-1 7
14	Artificial Mains	R&S	ENV216	101288	2022-06-1 6	2023-06-1 5
15	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2022-06-1 6	2023-06-1 5
16	EMI Test Software	Farad	EZ	/	N/A	N/A
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-2 9	2024-08-2 8
18	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2022-06-1 6	2023-06-1 5









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Report No.: LCSA041323069EA

11. TEST SETUP PHOTOGRAPHS OF THE EUT

Please refer to separated files for Test Setup Photos of the EUT.

12. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

13. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.



Scan code to check authenticity

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