

RADIO TEST REPORT FCC ID: 2ABYN027

Product: RGB Tube Light	
Trade Mark:	Godox
Model No.:	TL30
Family Model:	N/A
Report No.:	S21040102209001
Issue Date:	Apr 19. 2021

Prepared for

GODOX PHOTO EQUIPMENT CO.LTD

1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China

Prepared by

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TABLE OF CONTENTS

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Certificate #4298.01

1 TE	ST RESULT CERTIFICATION	3
2 SU	MMARY OF TEST RESULTS	4
3 FA	CILITIES AND ACCREDITATIONS	5
3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5
4 GE	INERAL DESCRIPTION OF EUT	6
5 DE	SCRIPTION OF TEST MODES	8
6 SE	TUP OF EQUIPMENT UNDER TEST	9
6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	
7 TE	ST REQUIREMENTS	
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION 6DB BANDWIDTH. DUTY CYCLE. PEAK OUTPUT POWER. POWER SPECTRAL DENSITY CONDUCTED BAND EDGE MEASUREMENT. SPURIOUS RF CONDUCTED EMISSIONS. ANTENNA APPLICATION	16 25 26 28 29 31 32 33
8 TE	ST RESULTS	
8.1 8.2 8.3 8.4 8.5	MAXIMUM CONDUCTED OUTPUT POWER OCCUPIED CHANNEL BANDWIDTH Maximum Power Spectral Density Level Band Edge Conducted RF Spurious Emission	



1 TEST RESULT CERTIFICATION

Applicant's name	GODOX PHOTO EQUIPMENT CO.LTD
Address	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei
	Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Manufacturer's Name	GODOX PHOTO EQUIPMENT CO.LTD
Address	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Product description	
Product name	RGB Tube Light
Model and/or type reference	TL30
Family Model	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS		
APPLICABLE STANDARD/ TEST PROCEDURE TEST RESU		
FCC 47 CFR Part 2, Subpart J	Complied	
FCC 47 CFR Part 15, Subpart C		
ANSI C63.10-2013 Complied		
KDB 558074 D01 15.247 Meas Guidance v05r02		

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	: Apr 01. 2021 ~ Apr 19. 2021
Testing Engineer	hang. Hu
	(Mary Hu)
Authorized Signatory	Galle
	(Alex Li)



FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

 "N/A" denotes test is not applicable in this Test Report.
All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
C C	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	RGB Tube Light	
Trade Mark	Godox	
FCC ID	2ABYN027	
Model No.	TL30	
Family Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK	
Number of Channels	40 Channels	
Antenna Type	PCB Antenna	
Antenna Gain	0.54dBi	
Deveroupply	DC supply: DC 3.7V from battery or DC 5V from Type-C port	
Power supply	Adapter supply: N/A	
Battery	DC 3.7V, 2900mAh, 10.73Wh	
HW Version	20201029S10	
SW Version	V1.0	

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Certificate #4298.01

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



Revision History				
Report No.	Version	Description	Issued Date	
S21040102209001	Rev.01	Initial issue of report	Apr 19. 2021	
Version 1.3			Page 7 of 47	

ACCREDITED

Certificate #4298.01

Version.1.3



5 DESCRIPTION OF TEST MODES

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To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

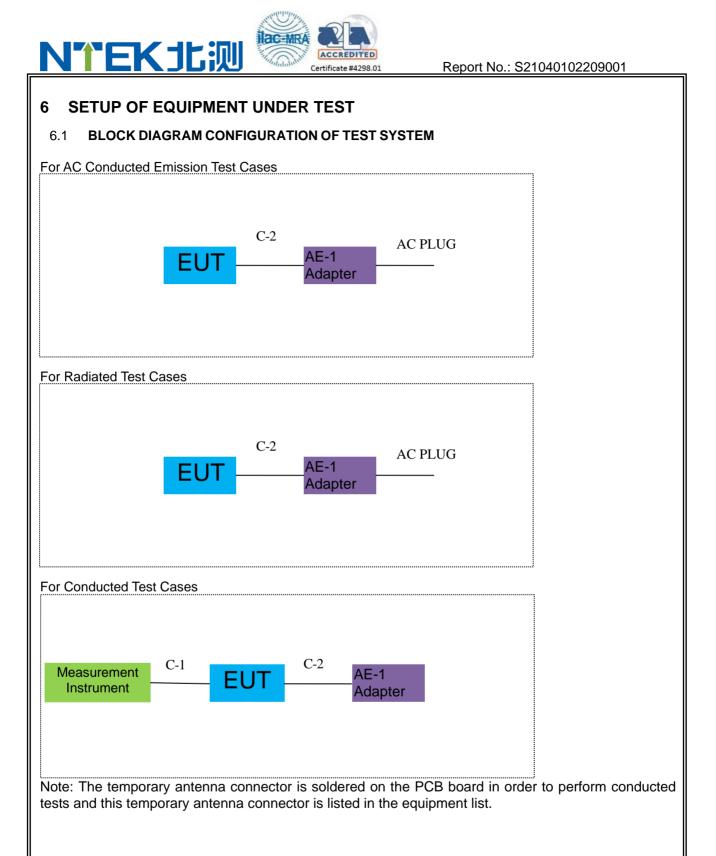
The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases	
Test Item	Data Rate/ Modulation	
Test item	GFSK	
AC Conducted Emission	Mode 1: normal link mode	
	Mode 1: normal link mode	
Radiated Test	Mode 2: Tx Ch00_2402MHz_1Mbps	
Cases	Mode 3: Tx Ch19_2440MHz_1Mbps	
	Mode 4: Tx Ch39_2480MHz_1Mbps	
Conducted Test	Mode 2: Tx Ch00_2402MHz_1Mbps	
Conducted Test Cases	Mode 3: Tx Ch19_2440MHz_1Mbps	
Cases	Mode 4: Tx Ch39_2480MHz_1Mbps	

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

2. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.





6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	Type-C cable	NO	NO	1.0m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Vaulatic	The Conducted	lest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13	2021.07.12	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.05.11	2021.05.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.05.11	2021.05.10	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.05.11	2021.05.10	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.05.11	2021.05.10	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.05.11	2021.05.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

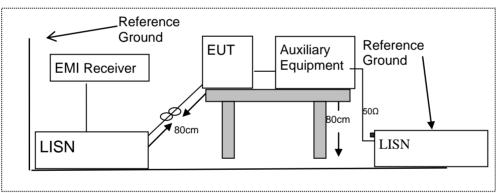
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



7.1.6 Test Results

EUT:	Ű		Model Name	Model Name : TL30				
Temperature:		22.6 °C	Relative Humidity:		nidity:	54%		
Pressure: 1010hPa			Phase :		L			
Fest Voltage		DC 5V fro AC 120V	om Adapter /60Hz	Test Mode:		Mode 1	1	
Frequency	Read	ding Level	Correct Factor	Measure-ment	Lim	its	Margin	Demen
(MHz)	(dBµV)	(dB)	(dBµV)	(dBj	۷L)	(dB)	Remarl
0.5940	:	22.19	9.54	31.73	46.	00	-14.27	AVG
0.5980	;	30.70	9.54	40.24	56.	00	-15.76	QP
0.9780		15.39	9.55	24.94	46.	00	-21.06	AVG
1.0700	:	25.21	9.55	34.76	56.	00	-21.24	QP
2.5380		14.04	9.58	23.62	46.	00	-22.38	AVG
3.6140		21.14	9.59	30.73	56.	00	-25.27	QP
. Factor = Inser			d Average values	3.			Limit: AVG:	
. Factor = Inser				5. 				
. Factor = Inser				5.				
. Factor = Inser								
. Factor = Inser 00.0 dBuV		oss + Cable		5.		MAN		
. Factor = Inser 00.0 dBuV 40		oss + Cable						↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓



EUT:	RGB Tube Light	Model Name :	TL30
Temperature:	22.6 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

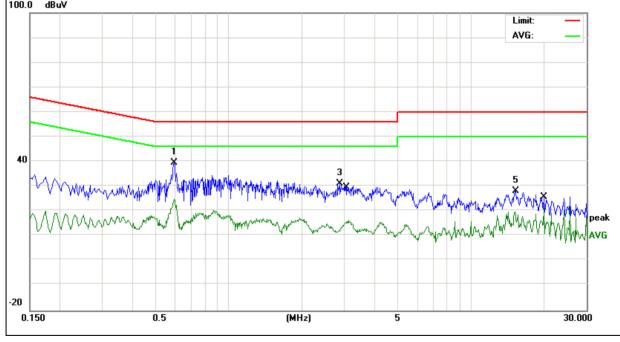
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5940	29.94	9.54	39.48	56.00	-16.52	QP
0.5940	15.19	9.54	24.73	46.00	-21.27	AVG
2.8620	21.54	9.59	31.13	56.00	-24.87	QP
3.1099	7.00	9.59	16.59	46.00	-29.41	AVG
15.2420	18.54	9.76	28.30	60.00	-31.70	QP
19.9660	11.46	9.92	21.38	50.00	-28.62	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

According to FCC Fait 15.205, Restricted bands					
MHz	MHz	MHz	GHz		
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15		
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46		
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75		
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5		
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2		
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5		
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7		
6.26775-6.26825	123-138	2200-2300	14.47-14.5		
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2		
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4		
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12		
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0		
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8		
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5		
12.57675-12.57725	322-335.4	3600-4400	(2)		
13.36-13.41					

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) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



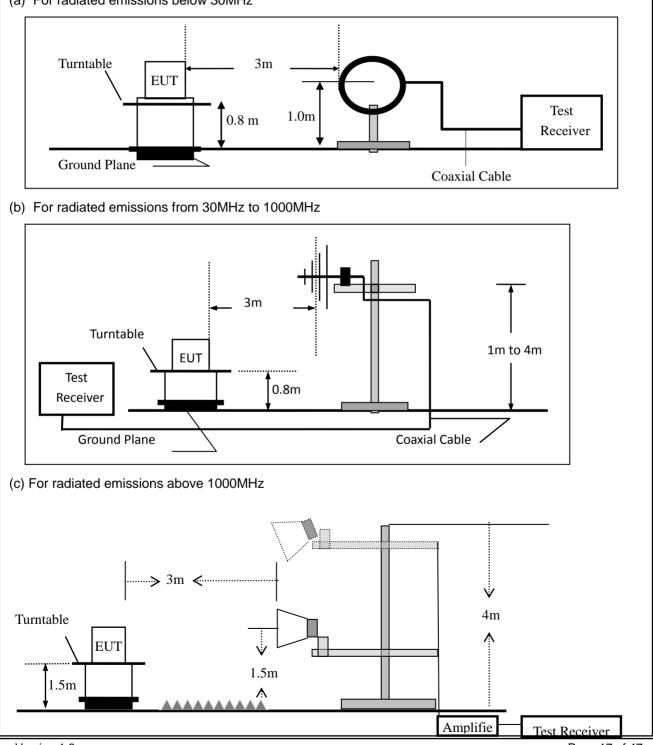
7.2.3 Measuring Instruments

N

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

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

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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



During the radiated emission t	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:									
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth							
30 to 1000	QP	120 kHz	300 kHz							
Above 1000	Peak	1 MHz	1 MHz							
Above 1000	Average	1 MHz	1 MHz							

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

Spurious Em	ission below 30MHz (9KHz to 30MH	Z)	
FUT	RGB Tube Light	Model	No ·	г

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz)

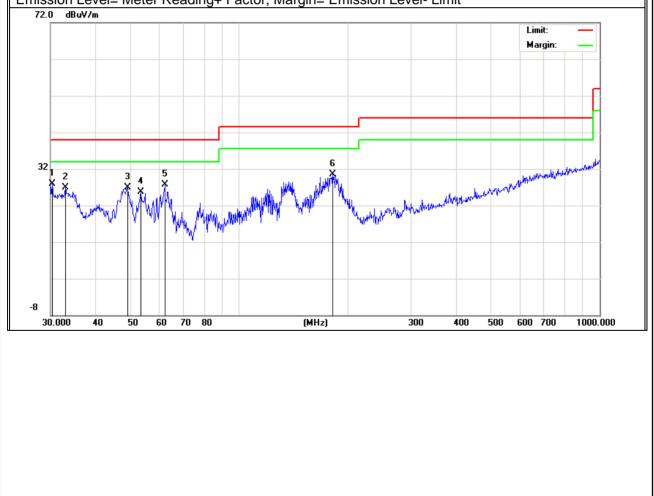
All the modulation modes have been tested, and the worst result was report as below:

EUT:	RGB Tube Light	Model Name :	TL30	
Temperature:	24.1 ℃	Relative Humidity:	53%	
Pressure:	1010hPa	Test Mode:	Mode 1	
Test Voltage :	DC 3.7V			

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
V	30.3172	8.89	19.10	27.99	40.00	-12.01	QP	
V	32.9791	10.16	16.76	26.92	40.00	-13.08	QP	
V	49.0144	17.65	9.34	26.99	40.00	-13.01	QP	
V	53.3179	18.30	7.44	25.74	40.00	-14.26	QP	
V	62.2128	22.09	5.66	27.75	40.00	-12.25	QP	
V	181.9201	20.00	10.44	30.44	43.50	-13.06	QP	

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtoman
Н	131.2965	18.28	12.33	30.61	43.50	-12.89	QP
Н	139.8507	17.12	13.20	30.32	43.50	-13.18	QP
Н	180.6487	14.17	10.51	24.68	43.50	-18.82	QP
Н	235.8163	16.12	12.36	28.48	46.00	-17.52	QP
Н	273.2341	15.58	14.37	29.95	46.00	-16.05	QP
Н	385.2805	10.33	17.70	28.03	46.00	-17.97	QP
32			1 2 X X	4 5 3 4 5	6 		
-8 30.000	40 50 60	70 80	(MI		300 400 5	00 600 700	1000.000
50.000	40 00 00	10 00	(12)		00 000 100	1000.000
30.000	40 50 60	70 80	ΙΜ)	<u>iz)</u>	<u>300 400 5</u>	<u>00 600 700</u>	1000.000



Spurious	Spurious Emission Above 1GHz (1GHz to 25GHz)											
EUT:	F	RGB Tube	ube Light Model No.:				TL:	30				
Temperature	e: 2	20 ℃		Relative Humidity:			48%					
Test Mode:	Ν	/lode2/Mo	de3/Mode4	4	Tes	st By:		Ма	Mary Hu			
					1							
Frequency	Read Level	Cable loss	Antenna Factor	Prea Fac		Emission Level	Limit	s	Margin	Remark	Comment	
(MHz)	(dBµV)) (dB)	dB/m	(dE	3)	(dBµV/m)	(dBµV/	/m)	(dB)			
			Low Ch	annel	(240	2 MHz)(GFS	K)Abo	ve 1	G			
4804	68.65	5.21	35.59	44.3	30	65.15	74.0	0	-8.85	Pk	Vertical	
4804	45.1	5.21	35.59	44.3	30	41.60	54.0	0	-12.40	AV	Vertical	
7206	70.52	6.48	36.27	44.6	60	68.67	74.0	0	-5.33	Pk	Vertical	
7206	50.65	6.48	36.27	44.6	60	48.80	54.0	0	-5.20	AV	Vertical	
4804	68.06	5.21	35.55	44.3	30	64.52	74.0	0	-9.48	Pk	Horizontal	
4804	49.45	5.21	35.55	44.3	30	45.91	54.0	0	-8.09	AV	Horizontal	
7206	69.09	6.48	36.27	44.5	52	67.32	74.00		-6.68	Pk	Horizontal	
7206	7206 45.96 6.48 36.27 44.52 44.19 5		54.0	0	-9.81	AV	Horizontal					
Mid Channel (2440 MHz)(GFSK)Above 1G												
4880	70.06	5.21	35.66	44.2	20	66.73	74.0	0	-7.27	Pk	Vertical	
4880	49.48	5.21	35.66	44.2	20	46.15	54.0	0	-7.85	AV	Vertical	
7320	68.06	7.10	36.50	44.4	13	67.23	74.0	0	-6.77	Pk	Vertical	
7320	46.84	7.10	36.50	44.4	13	46.01	54.0	0	-7.99	AV	Vertical	
4880	70.96	5.21	35.66	44.2	20	67.63	74.0	0	-6.37	Pk	Horizontal	
4880	50.11	5.21	35.66	44.2	20	46.78	54.0	0	-7.22	AV	Horizontal	
7320	69.01	7.10	36.50	44.4	13	68.18	74.0	0	-5.82	Pk	Horizontal	
7320	48.67	7.10	36.50	44.4	13	47.84	54.0	0	-6.16	AV	Horizontal	
		-	High Ch	annel	(248	0 MHz)(GFS	K) Abo	ove 1	IG			
4960	70.49	5.21	35.52	44.2	21	67.01	74.0	0	-6.99	Pk	Vertical	
4960	50.59	5.21	35.52	44.2	21	47.11	54.0	0	-6.89	AV	Vertical	
7440	68.9	7.10	36.53	44.6	60	67.93	74.0	0	-6.07	Pk	Vertical	
7440	47.17	7.10	36.53	44.6	60	46.20	54.0	0	-7.80	AV	Vertical	
4960	70.43	5.21	35.52	44.2	21	66.95	74.0	0	-7.05	Pk	Horizontal	
4960	48.27	5.21	35.52	44.2	21	44.79	54.0	0	-9.21	AV	Horizontal	
7440	69.61	7.10	36.53	44.6	60	68.64	74.0	0	-5.36	Pk	Horizontal	
7440	47.36	7.10	36.53	44.6	60	46.39	54.0	0	-7.61	AV	Horizontal	

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



ΞL	JT:	RGB Tul	be Light		Mode	el No.:		TL30			
Ге	mperature:	20 ℃			Rela	tive Humidit	y:	48%			
Те	st Mode:	Mode2/	Mode4		Test	By:	-	Mary	Hu		
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
ĺ	1Mbps(GFSK)										
	2310.00	70.7	2.97	27.80	43.80	57.67	7	4	-16.33	Pk	Horizontal
ĺ	2310.00	48.62	2.97	27.80	43.80	35.59	5	4	-18.41	AV	Horizontal
ĺ	2310.00	70.65	2.97	27.80	43.80	57.62	7	4	-16.38	Pk	Vertical
	2310.00	49.23	2.97	27.80	43.80	36.20	5	4	-17.80	AV	Vertical
ĺ	2390.00	70.24	3.14	27.21	43.80	56.79	7	4	-17.21	Pk	Vertical
	2390.00	47.88	3.14	27.21	43.80	34.43	5	4	-19.57	AV	Vertical
	2390.00	69.78	3.14	27.21	43.80	56.33	7	4	-17.67	Pk	Horizontal
ĺ	2390.00	50.04	3.14	27.21	43.80	36.59	5	4	-17.41	AV	Horizontal
ĺ	2483.50	69.18	3.58	27.70	44.00	56.46	7	4	-17.54	Pk	Vertical
	2483.50	45.68	3.58	27.70	44.00	32.96	5	4	-21.04	AV	Vertical
ĺ	2483.50	68.41	3.58	27.70	44.00	55.69	7	4	-18.31	Pk	Horizontal
	2483.50	49.5	3.58	27.70	44.00	36.78	5	4	-17.22	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit. (2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



UT:	RGB T	ube Lig	ht	Mod	Model No.:		TL30			
emperature:	20 ℃			Rela	ative Humidit	y:	48%			
Fest Mode: Mode2/ Mode4			Tes	t By:		Mary	Hu			
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level			Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ'	V/m)	(dB)	Туре	
3260	69.81	4.04	29.57	44.70	58.72	74	4	-15.28	Pk	Vertical
3260	49.62	4.04	29.57	44.70	38.53	54	4	-15.47	AV	Vertical
3260	68.55	4.04	29.57	44.70	57.46	74	4	-16.54	Pk	Horizontal
3260	46.08	4.04	29.57	44.70	34.99	54	4	-19.01	AV	Horizontal
3332	68.03	4.26	29.87	44.40	57.76	74	4	-16.24	Pk	Vertical
3332	45.64	4.26	29.87	44.40	35.37	54	4	-18.63	AV	Vertical
3332	68.76	4.26	29.87	44.40	58.49	74	4	-15.51	Pk	Horizontal
3332	46.81	4.26	29.87	44.40	36.54	54	4	-17.46	AV	Horizontal
17797	54.36	10.99	43.95	43.50	65.80	74	4	-8.20	Pk	Vertical
17797	33.18	10.99	43.95	43.50	44.62	54	4	-9.38	AV	Vertical
17788	51.73	11.81	43.69	44.60	62.63	74	4	-11.37	Pk	Horizontal
17788	31.52	11.81	43.69	44.60	42.42	54	4	-11.58	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- \dot{g}) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance 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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	RGB Tube Light	Model No.:	TL30
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached PCB antenna (Gain: 0.54dBi). It comply with the standard requirement.



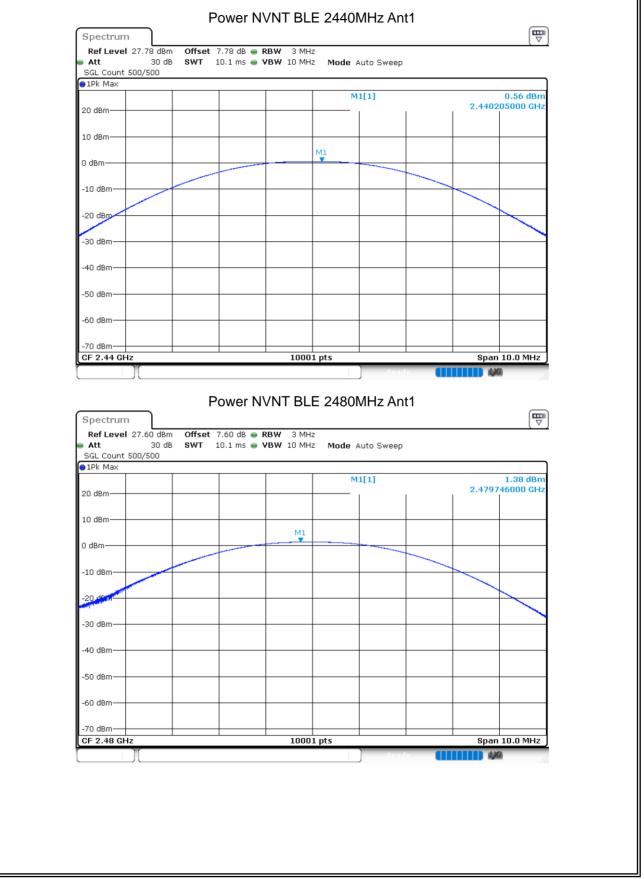
8 TEST RESULTS

8.1 MAXIMUM CONDUCTED OUTPUT POWER

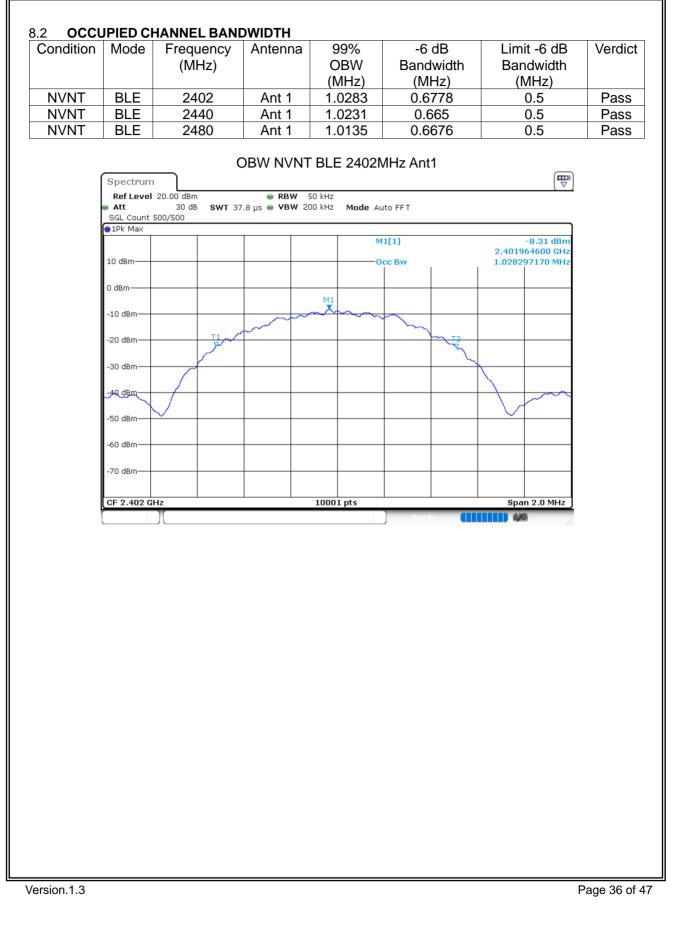
Condition	Mode	Frequency	Antenna	Conducted	Limit	Verdict
		(MHz)		Power	(dBm)	
				(dBm)	. ,	
NVNT	BLE	2402	Ant 1	0.939	30	Pass
NVNT	BLE	2440	Ant 1	0.557	30	Pass
NVNT	BLE	2480	Ant 1	1.377	30	Pass

Power NVNT BLE 2402MHz Ant1 Spectrum Offset 7.62 dB 🖷 RBW 3 MHz Ref Level 27.62 dBm SWT 10.1 ms 🖷 VBW 10 MHz Mode Auto Sweep 30 dB Att SGL Count 500/500 ●1Pk Max M1[1] 0.94 dBm 2.401704000 GHz 20 dBm· 10 dBm-M1 0 dBm--10 dBm--20 dBp -30 dBm--40 dBm -50 dBm -60 dBm· -70 dBm· Span 10.0 MHz CF 2.402 GHz 10001 pts LXI

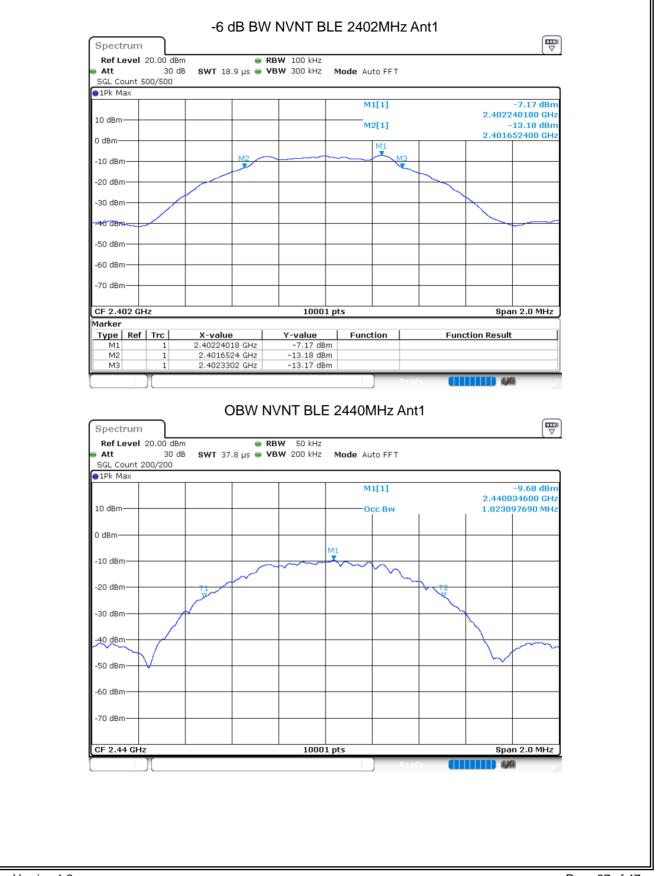




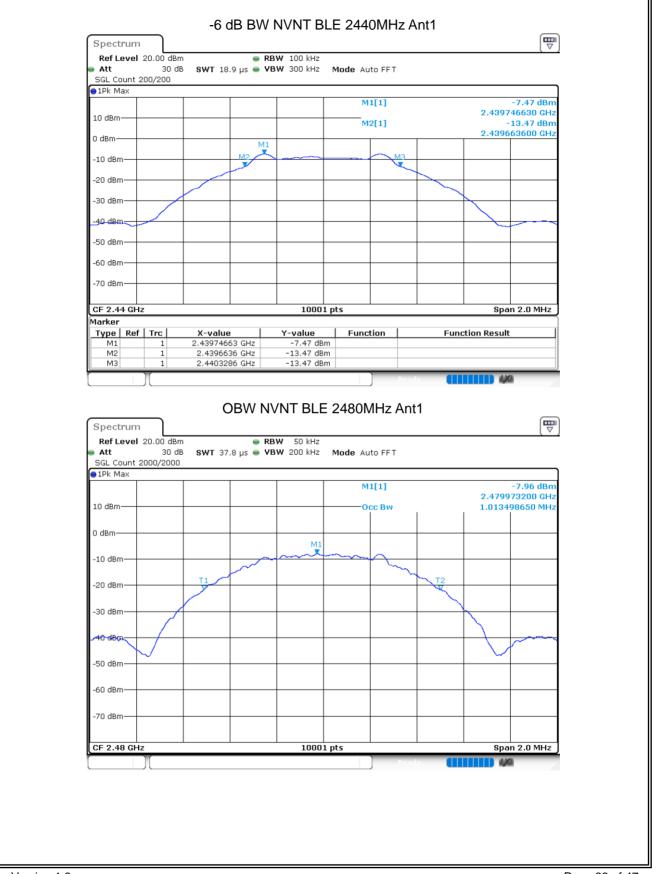




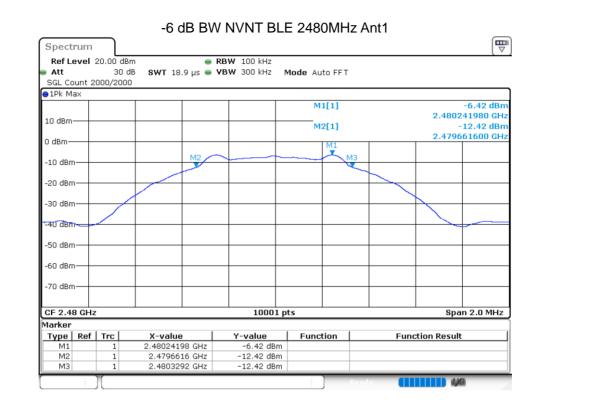












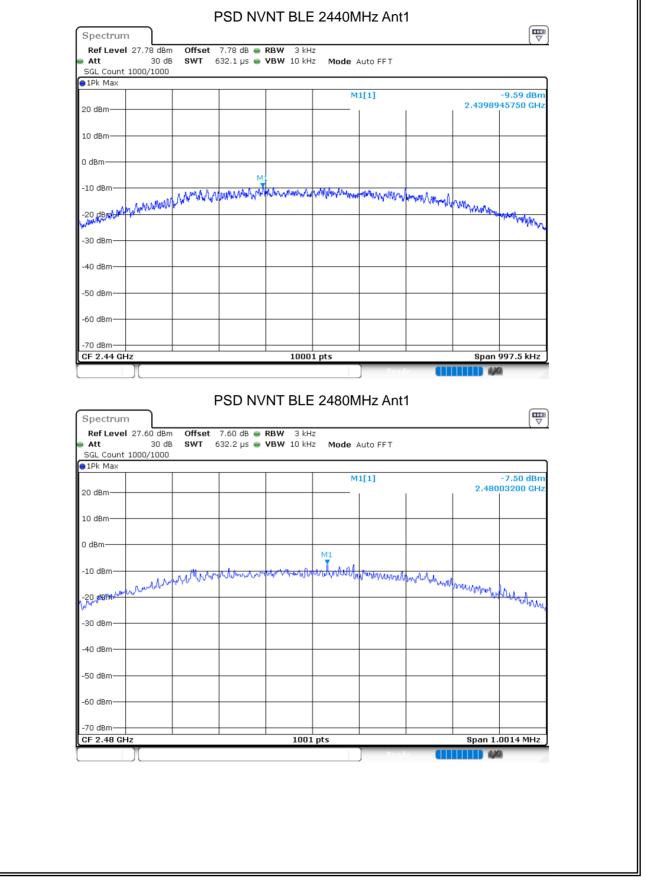


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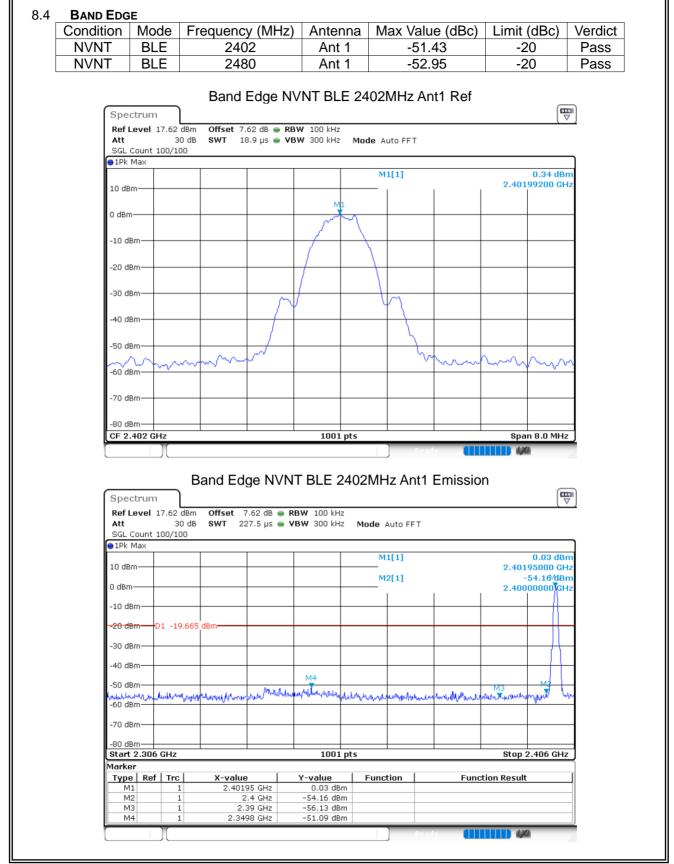
3.3 Maxi Condition	Mode	ER SPECTRAL DEN Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant 1	-7.844	8	Pass
NVNT	BLE	2440	Ant 1	-9.592	8	Pass
NVNT	BLE	2480	Ant 1	-7.501	8	Pass
	Spectrum Ref Level Att SGL Count 3 1Pk Max 20 dBm 10 dBm	27.62 dBm Offset 7.6 30 dB SWT 632	SD NVNT BLE 52 dB ● RBW 3 kHz .2 µs ● VBW 10 kHz	2402MHz Ant1 Mode Auto FFT	-7.84 dBm 2.402077160 GHz	
	0 dBm					
	10 dbes			MI Administration and the Million		
	-10 GBM	. when the whole when	Andrian and an and a star and a star	and and and the first part of the providence of	"Manageralises in	
	-20 dpm	(he// 1 -			and the second second second	
	-30 dBm					
	-40 dBm					
	-50 dBm					
	-60 dBm					
	-70 dBm					
	CF 2.402 GH	Hz	10001	pts	Span 1.0167 MHz	

Ľ

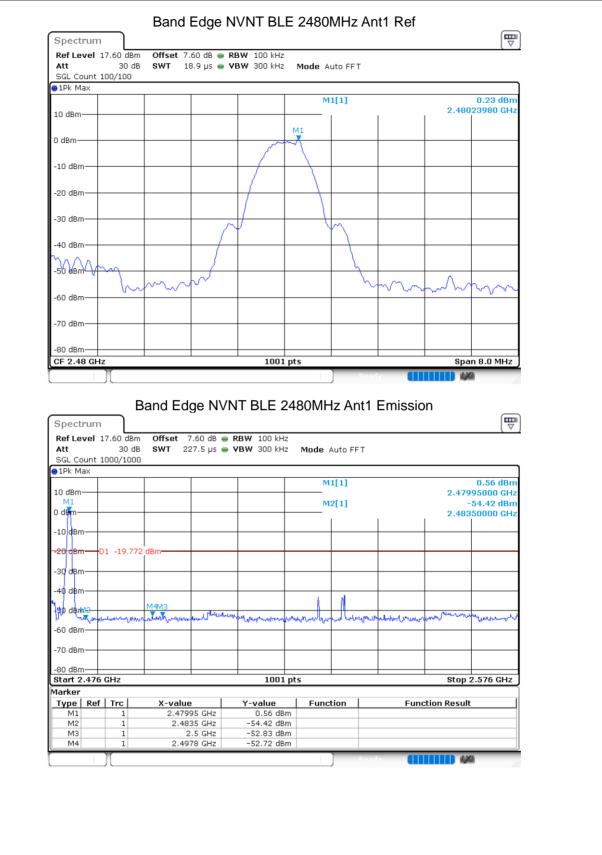






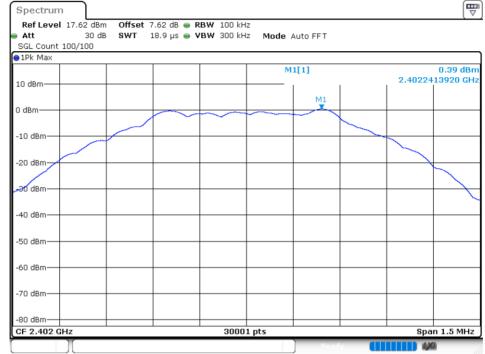




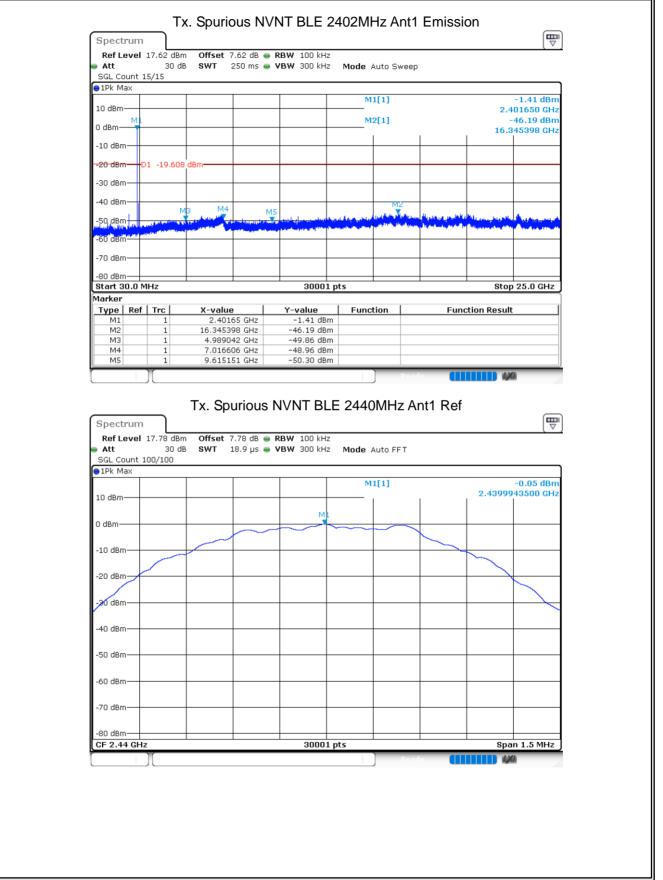




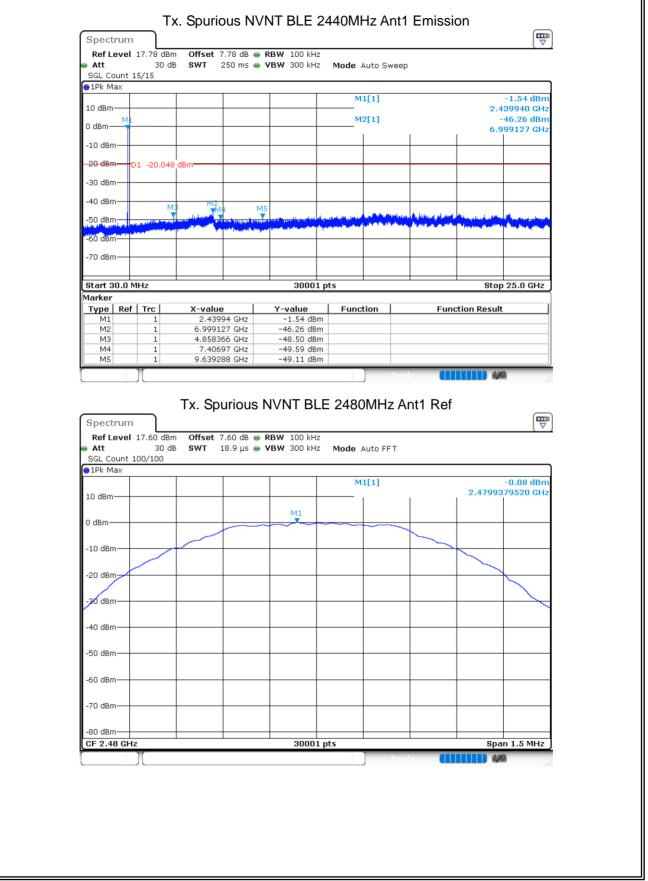
8.5 **CONDUCTED RF SPURIOUS EMISSION** Condition Mode Frequency (MHz) Antenna Max Value (dBc) Limit (dBc) Verdict NVNT BLE 2402 Ant 1 -46.58 -20 Pass -20 NVNT BLE 2440 -46.2 Pass Ant 1 NVNT BLE 2480 Ant 1 -45.9 -20 Pass Tx. Spurious NVNT BLE 2402MHz Ant1 Ref Spectrum













	rum	L						♥
Ref L	evel	17.60		🔵 RBW 100 kHz				
Att		-) dB SWT 250 ms	🔵 VBW 300 kHz	Mode Auto S	weep		
	ount 1	0/10						
1Pk M	lax							
o					M1[1]		-0.40	
0 dBm							2.479890	
dBm-	ML				M2[1]		-45.98 dB	
abiii						1	16.390344	GHZ
LO dBr	n							
20 dBr	n D	1 -20.	076 dBm					
0 dBr	_							
U UDI	"							
+0 dBr	n					12		
			M3 _ M4	M5				
0 dBr	n 🚽	- I Landon I Landon	and a set of the set of	and the second second second second	الأفاقية فيتناهم والمتلك	dia dia dalam pati	ومعيرية الإستانانية ويعدد والمتحد	, and gold
	h	-	Survey and the survey of the problem group	And the property of the second se	Change Blander		in the second	Index 100
u abr	n							
0 dBr	n							
0 401	"							
30 dBr	n —							
	30.0 M	IHz		30001 p	ts		Stop 25.0	GHz
tart (
	0.0	Trc	X-value	Y-value	Function	Fur	nction Result	1
arker	Ref	1	2.47989 GHz	-0.40 dBm				
arker	Ret	1		-45.98 dBm				
arker Fype	Ret	1	16.390344 GHz					
arker Type M1 M2 M3	Ret		5.075605 GHz	-49.60 dBm				
arker Type M1 M2	Ret	1		-49.60 dBm -49.97 dBm				

END OF REPORT