

# **RF TEST REPORT**

Product Name: Children's binoculars

Model Name: Bino01

## FCC ID: 2BA4ZBINO01

Issued For : Singapore Zoological Gardens

80 Mandai Lake Road, Singapore

Issued By : Shenzhen LGT Test Service Co., Ltd. Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

Report Number:	LGT23D063RF01
Sample Received Date:	Apr. 18, 2023
Date of Test:	Apr. 18, 2023 – Apr. 24, 2023
Date of Issue:	Apr. 24, 2023

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# **TEST REPORT CERTIFICATION**

Applicant:	Singapore Zoological Gardens
Address:	80 Mandai Lake Road, Singapore
Manufacturer:	Yimo Interactive (Beijing) Technology Co., LTD
Address:	C207, Floor 2, Building 8, Yard 1, Jiuxianqiao East Road, Chaoyang District, Beijing
Factory:	Yimo Interactive (Beijing) Technology Co., LTD
Address:	C207, Floor 2, Building 8, Yard 1, Jiuxianqiao East Road, Chaoyang District, Beijing
Product Name:	Children's binoculars
Trademark:	N/A
Model Name:	Bino01
Sample Status:	Normal

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS			

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Zane Shan Engineer

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## **Table of Contents**

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	10
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.5 EQUIPMENTS LIST	12
3. EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.2 TEST PROCEDURE	14
3.3 TEST SETUP	14
3.4 EUT OPERATING CONDITIONS	14
3.5 TEST RESULTS	15
4. RADIATED EMISSION MEASUREMENT	17
4.1 RADIATED EMISSION LIMITS	17
4.2 TEST PROCEDURE	19
4.3 TEST SETUP	20
4.4 EUT OPERATING CONDITIONS	20
4.5 FIELD STRENGTH CALCULATION	21
4.7 RADIATED BAND EDGE	27
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	29
5.1 LIMIT	29
5.2 TEST PROCEDURE	29
5.3 TEST SETUP	29
5.4 EUT OPERATION CONDITIONS	29
5.5 TEST RESULTS	29
6. POWER SPECTRAL DENSITY TEST	30
6.1 LIMIT	30
6.2 TEST PROCEDURE	30
6.3 TEST SETUP	30
6.4 EUT OPERATION CONDITIONS	30



## **Table of Contents**

6.5 TEST RESULTS	30
7. BANDWIDTH TEST	31
7.1 LIMIT	31
7.2 TEST PROCEDURE	31
7.3 TEST SETUP	31
7.4 EUT OPERATION CONDITIONS	31
7.5 TEST RESULTS	31
8. PEAK OUTPUT POWER TEST	32
8.1 LIMIT	32
8.2 TEST PROCEDURE	32
8.3 TEST SETUP	32
8.4 EUT OPERATION CONDITIONS	32
8.5 TEST RESULTS	32
9. ANTENNA REQUIREMENT	33
9.1 STANDARD REQUIREMENT	33
9.2 EUT ANTENNA	33
APPENDIX I - TEST RESULTS	34
DUTY CYCLE	34
MAXIMUM AVERAGE CONDUCTED OUTPUT POWER	36
MAXIMUM PEAK CONDUCTED OUTPUT POWER	38
-6DB BANDWIDTH	40
OCCUPIED CHANNEL BANDWIDTH	42
MAXIMUM POWER SPECTRAL DENSITY LEVEL	44
BAND EDGE	46
CONDUCTED RF SPURIOUS EMISSION	49
APPENDIX - TEST SETUP PHOTOS	52



## **Revision History**

Rev.	Issue Date	Contents
00	Apr. 24, 2023	Initial Issue



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C						
Standard Section	Lest Item					
15.207	Conducted Emission	N/A				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	Output Power	PASS				
15.209	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	Restricted Band Edge Emission	PASS				
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.	
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China	
Accreditation Certificate	A2LA Certificate No.: 6727.01	
	FCC Registration No.: 746540	
	CAB ID: CN0136	

#### 1.2 MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Occupied Channel Bandwidth	±3.2 %
RF Output Power, Conducted	±0.71dB
Power Spectral Density, Conducted	±1.57 dB
Unwanted Emission, Conducted	±0.63dB
Conducted emission	±2.80dB
All Emissions, Radiated (0.009-30MHz)	±2.16dB
All Emissions, Radiated (30MHz-1GHz)	±4.40dB
All Emissions, Radiated (1GHz-18GHz)	±5.49dB
Temperature	±0.5°C
Humidity	±2%
Duty Cycle	±2.3%



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Children's binoculars				
Trademark:	N/A	N/A			
Model Name:	Bino01				
Series Model:	N/A				
Model Difference:	N/A				
	The EUT is a Children's bi	noculars			
	Operation Frequency:	2402~2480 MHz			
	Modulation Type:	GFSK			
	Radio Technology:	BLE			
Product Description:	Bluetooth Configuration:	BLE (1M PHY)			
	Number Of Channel:	40			
	Antenna Designation:	Please refer to the Note 3.			
	Antenna Gain (dBi)	3.76dBi			
Channel List:	Please refer to the Note 2.				
Rating:	Input: DC 5V				
Battery:	Capacity: 3000mAh Rated Voltage: 3.7V				
Hardware Version:	V4.1				
Software Version:	N/A				
Connecting I/O Port(s):	Please refer to the Note 1.				

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



•									
	Channel List								
ChannelFrequency (MHz)ChannelFrequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)									
00	2402	10	2422	20	2442	30	2462		
01	2404	11	2424	21	2444	31	2464		
02	2406	12	2426	22	2446	32	2466		
03	2408	13	2428	23	2448	33	2468		
04	2410	14	2430	24	2450	34	2470		
05	2412	15	2432	25	2452	35	2472		
06	2414	16	2434	26	2454	36	2474		
07	2416	17	2436	27	2456	37	2476		
08	2418	18	2438	28	2458	38	2478		
09	2420	19	2440	29	2460	39	2480		

3.

## Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	TA Technology (Shanghai) Co., Ltd.	ESP ANT B	PCB antenna	N/A	3.76	BLE ANT

Note: The antenna information provide by manufacturer, applicable only to the tested sample identified in the report.



#### 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

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

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter; the worst data was reported.(2) We have been tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz

and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

#### For AC Conducted Emission

Test Case			
AC Conducted Emission	Mode 4: Keeping BT TX		

#### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: BLE		
	Mode Or Modulation type	power setting	
EspRFTestTool_v2.8_Manual	1M	5	



#### 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

#### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

#### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	HUAWEI	HKF-16	N/A	N/A
Adapter	Tenpao	S005CAU05001 00	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 1A
USB-A to USB-C Cable	UGREEN	US287	N/A	0.5m, shielded, without ferrite core

#### Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>[]</sup> Length <sup>\_</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



## 2.5 EQUIPMENTS LIST

Conducted Emission						
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2023.04.10	2024.04.09	
LISN	COM-POWER	LI-115	02032	2023.04.10	2024.04.09	
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18	
ISN	FCC	T4-02	91317	2022.06.08	2023.06.07	
ISN	SCHWARZBECK	NTFM 8158	00303	2022.08.19	2023.08.18	
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18	
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04	
Testing Software		EMC-I_V1.4.0.3_SKET				

Radiated Test equipment							
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until		
EMI Test Receiver	R&S	ESU8	100372	2023.04.10	2024.04.09		
Active loop Antenna	ETS	6502	00049544	2022.06.02	2024.06.01		
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28		
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2024.06.04		
Horn Antenna	SCHWARZBE CK	3115	10SL0060	2022.06.02	2024.06.01		
Horn Antenna (18-40GHz)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2024.06.07		
Pre-amplifier(9kHz-1GHz )	EMtrace	RP01A	02017	2023.04.10	2024.04.09		
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.10	2024.04.09		
Pre-mplifier(18G-40G)	com-mw	KA_LNA18-40 G-1	18050001	2022.10.23.	2023.10.22		
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04		
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04		
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28		
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04		
Testing Software	EMC-I_V1.4.0.3_SKET						

Conducted Test equipment								
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until			
Signal Analyzer	keysight	N9010B	MY60242508	2022.04.29	2023.04.28			
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28			
MXG Vector Signal Generator	keysight	N5182B	MY59100717	2022.06.02	2023.06.01			
RF Automatic Test system	MW	MW100-RF CB	MW220324LG-33	2022.04.29	2023.04.28			
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04			
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09			
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28			
Testing Software	MTS8200_ V2.0.0.0_MW							



## 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

	Conducted Emission limit (dBuV)			
FREQUENCY (MHz)	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

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

#### The following table is the setting of the receiver

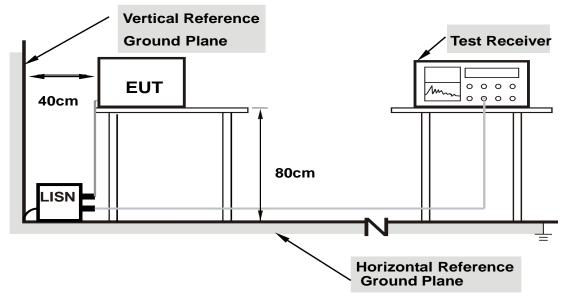
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 3.2 TEST PROCEDURE

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

#### 3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

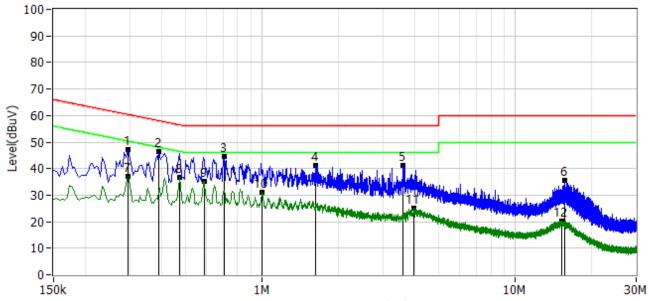
#### 3.4 EUT OPERATING CONDITIONS

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



## 3.5 TEST RESULTS

Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 25.5°C
M/N: Bino01	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-04-20
Test Mode: BLE TX	
Note:	

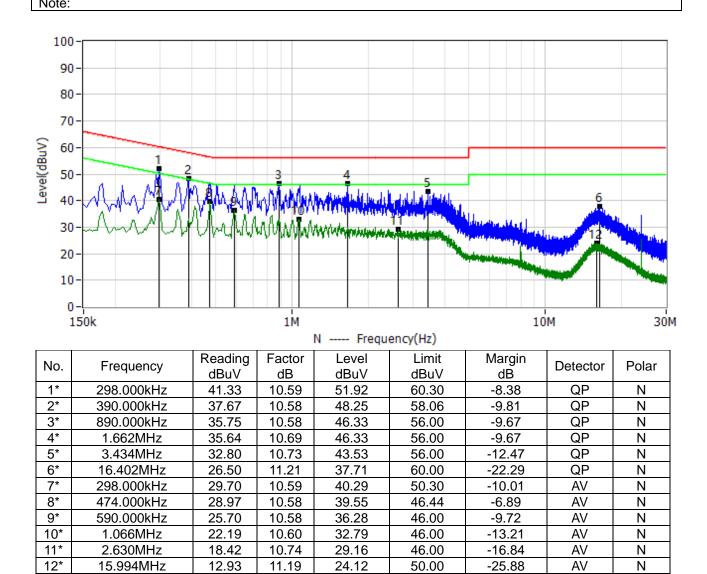


L1 ----- Frequency(Hz)

No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	294.000kHz	36.61	10.59	47.20	60.41	-13.21	QP	L1
2*	390.000kHz	35.98	10.58	46.56	58.06	-11.50	QP	L1
3*	710.000kHz	34.12	10.58	44.70	56.00	-11.30	QP	L1
4*	1.622MHz	30.62	10.69	41.31	56.00	-14.69	QP	L1
5*	3.610MHz	30.38	10.72	41.10	56.00	-14.90	QP	L1
6*	15.702MHz	24.35	11.12	35.47	60.00	-24.53	QP	L1
7*	294.000kHz	26.56	10.59	37.15	50.41	-13.26	AV	L1
8*	474.000kHz	25.99	10.58	36.57	46.44	-9.88	AV	L1
9*	590.000kHz	24.51	10.58	35.09	46.00	-10.91	AV	L1
10*	998.000kHz	20.32	10.59	30.91	46.00	-15.09	AV	L1
11*	3.966MHz	14.33	10.72	25.05	46.00	-20.95	AV	L1
12*	15.234MHz	9.05	11.10	20.15	50.00	-29.85	AV	L1



Project: LGT23D063	Test Engineer: Dylan.shi	
EUT: Children's binoculars	Temperature: 25.5℃	
M/N: Bino01	Humidity: 55%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2023-04-20	
Test Mode: BLE TX		
Note:		





## 4. RADIATED EMISSION MEASUREMENT

#### **4.1 RADIATED EMISSION LIMITS**

In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)				
Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(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		

#### ......

#### LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

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

#### LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	CY (MHz) FREQUENCY (MHz) FREQUENCY (MHz)		FREQUENCY (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	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	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	Above 38.6	
13.36-13.41				



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz);
	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz (Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz (Peak/AV)
Stop Frequency	10th carrier hamonic (Peak/AV)
	1 MHz / 3 MHz(Peak)
RB / VB (emission in restricted band)	1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz
	Upper Band Edge: 2475 to 2500 MHz
	1 MHz / 3 MHz(Peak)
RB / VB	1 MHz/1/T MHz(AVG)



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

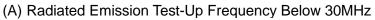
#### 4.2 TEST PROCEDURE

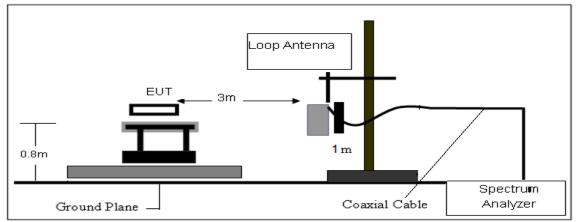
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

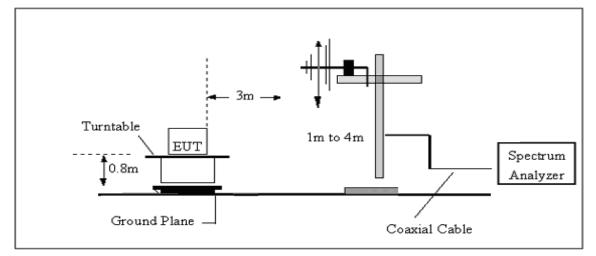


## 4.3 TEST SETUP

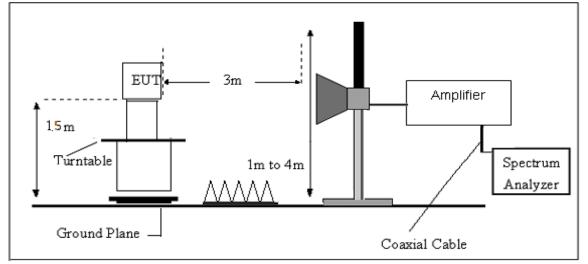




## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



#### (C) Radiated Emission Test-Up Frequency Above 1GHz



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



#### 4.5 FIELD STRENGTH CALCULATION

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

For example,

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

Factor=AF+CL-AG



#### 4.6 TEST RESULTS

#### Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

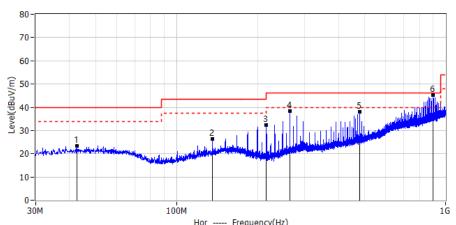
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

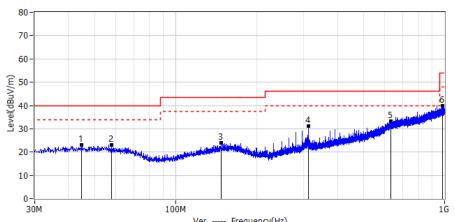


#### Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 27.4°C
M/N: Bino01	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-04-21
Test Mode: BLE TX	
Note:	



				Hor Frequency	(12)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	Периспсу	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	i olai
1*	42.610MHz	4.12	19.30	23.42	40.00	-16.58	PK	Hor
2*	135.973MHz	7.49	18.83	26.32	43.50	-17.18	PK	Hor
3*	215.998MHz	15.55	16.94	32.49	43.50	-11.01	PK	Hor
4*	264.013MHz	19.41	18.90	38.31	46.00	-7.69	PK	Hor
5*	480.080MHz	13.48	24.55	38.03	46.00	-7.97	PK	Hor
6*	896.089MHz	12.02	33.18	45.20	46.00	-0.80	PK	Hor

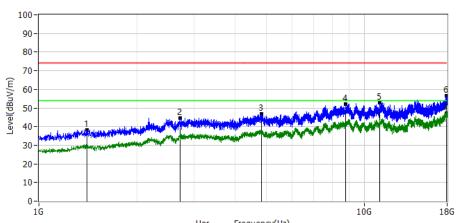


				ver Frequency	y(H2)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
						-		
1*	44.793MHz	3.97	19.23	23.20	40.00	-16.80	PK	Ver
2*	57.766MHz	4.32	18.80	23.12	40.00	-16.88	PK	Ver
3*	148.098MHz	4.15	19.81	23.96	43.50	-19.54	PK	Ver
4*	312.028MHz	10.79	20.29	31.08	46.00	-14.92	PK	Ver
5*	629.945MHz	4.39	28.72	33.11	46.00	-12.89	PK	Ver
6*	980.843MHz	5.34	34.48	39.82	54.00	-14.18	PK	Ver

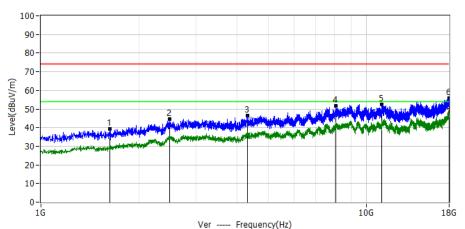


#### Results of Radiated Emissions (Above 1000MHz)

Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 26.1°C
M/N: Bino01	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2023-04-20
Test Mode: BLE 2402	
Note:	



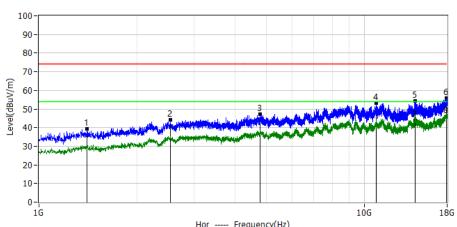
				Hor Frequence	y(HZ)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4037GHz	59.71	-21.36	38.35	74.00	-35.65	PK	Hor
2*	2.7106GHz	54.47	-9.87	44.60	74.00	-29.40	PK	Hor
3*	4.8335GHz	52.90	-6.01	46.89	74.00	-27.11	PK	Hor
4*	8.7584GHz	54.08	-1.85	52.23	74.00	-21.77	PK	Hor
5*	11.1702GHz	51.11	1.73	52.84	74.00	-21.16	PK	Hor
6*	17.9171GHz	48.16	8.46	56.62	74.00	-17.38	PK	Hor
7*	17.9171GHz	38.64	8.46	47.10	54.00	-6.90	AV	Hor



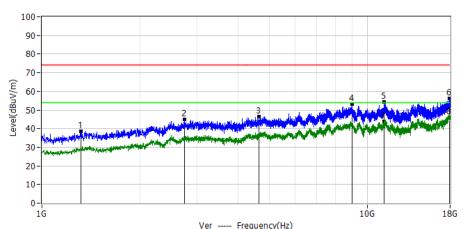
				ver riequerie				
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
		dBuV	dB/m	dBuV/m	dBuV/m	dB	20100101	
1*	1.6247GHz	59.27	-19.94	39.33	74.00	-34.67	PK	Ver
2*	2.4917GHz	55.56	-11.07	44.49	74.00	-29.51	PK	Ver
3*	4.3065GHz	52.94	-6.57	46.37	74.00	-27.63	PK	Ver
4*	8.0784GHz	55.50	-3.78	51.72	74.00	-22.28	PK	Ver
5*	11.1575GHz	50.87	1.72	52.59	74.00	-21.41	PK	Ver
6*	17.9872GHz	47.45	8.51	55.96	74.00	-18.04	PK	Ver
7*	17.9872GHz	36.99	8.51	45.50	54.00	-8.50	AV	Ver



Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 26.1°C
M/N: Bino01	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2023-04-20
Test Mode: BLE 2440	
Note:	



				Hor Frequence	y(HZ)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4037GHz	60.70	-21.36	39.34	74.00	-34.66	PK	Hor
2*	2.5364GHz	54.84	-10.79	44.05	74.00	-29.95	PK	Hor
3*	4.7761GHz	53.32	-5.97	47.35	74.00	-26.65	PK	Hor
4*	10.9174GHz	51.83	1.40	53.23	74.00	-20.77	PK	Hor
5*	14.3216GHz	48.46	5.90	54.36	74.00	-19.64	PK	Hor
6*	17.9001GHz	47.28	8.45	55.73	74.00	-18.27	PK	Hor
7*	14.3216GHz	38.00	5.90	43.90	54.00	-10.10	AV	Hor
8*	17.9001GHz	37.55	8.45	46.00	54.00	-8.00	AV	Hor

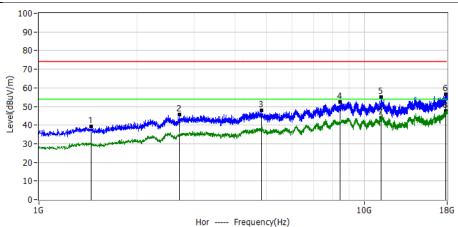


				ver Frequenc	y(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
140.	Периспеу	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	i olai
1*	1.3145GHz	60.71	-22.06	38.65	74.00	-35.35	PK	Ver
2*	2.7425GHz	54.64	-9.70	44.94	74.00	-29.06	PK	Ver
3*	4.6529GHz	52.42	-5.87	46.55	74.00	-27.45	PK	Ver
4*	8.9942GHz	54.22	-1.19	53.03	74.00	-20.97	PK	Ver
5*	11.2722GHz	52.64	1.79	54.43	74.00	-19.57	PK	Ver
6*	17.9086GHz	47.77	8.46	56.23	74.00	-17.77	PK	Ver
7*	11.2722GHz	42.01	1.79	43.80	54.00	-10.20	AV	Ver
8*	17.9086GHz	37.64	8.46	46.10	54.00	-7.90	AV	Ver

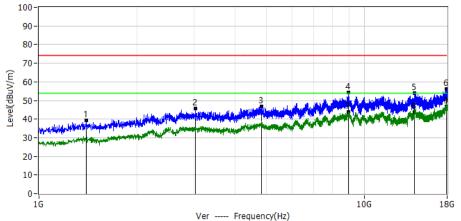


Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 26.1°C
M/N: Bino01	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2023-04-20
Test Mode: BLE 2480	

Note:



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*						-	51/	
1*	1.4484GHz	60.40	-21.12	39.28	74.00	-34.72	PK	Hor
2*	2.7021GHz	55.62	-9.92	45.70	74.00	-28.30	PK	Hor
3*	4.8335GHz	53.78	-6.01	47.77	74.00	-26.23	PK	Hor
4*	8.4417GHz	55.05	-2.75	52.30	74.00	-21.70	PK	Hor
5*	11.2722GHz	53.21	1.79	55.00	74.00	-19.00	PK	Hor
6*	17.7854GHz	48.26	8.37	56.63	74.00	-17.37	PK	Hor
7*	11.2722GHz	42.01	1.79	43.80	54.00	-10.20	AV	Hor
8*	17.7854GHz	39.03	8.37	47.40	54.00	-6.60	AV	Hor



				ver Frequenc	y(nz)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
NO.	Frequency	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	1.3974GHz	60.75	-21.40	39.35	74.00	-34.65	PK	Ver
2*	3.0230GHz	54.03	-8.35	45.68	74.00	-28.32	PK	Ver
3*	4.8335GHz	52.80	-6.01	46.79	74.00	-27.21	PK	Ver
4*	8.9347GHz	55.51	-1.35	54.16	74.00	-19.84	PK	Ver
5*	14.2876GHz	48.12	5.90	54.02	74.00	-19.98	PK	Ver
6*	17.9511GHz	47.76	8.49	56.25	74.00	-17.75	PK	Ver
7*	8.9347GHz	45.15	-1.35	43.80	54.00	-10.20	AV	Ver
8*	14.2876GHz	37.90	5.90	43.80	54.00	-10.20	AV	Ver
9*	17.9511GHz	38.21	8.49	46.70	54.00	-7.30	AV	Ver

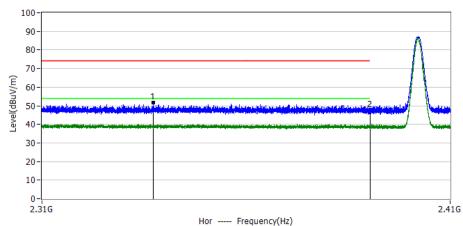
Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

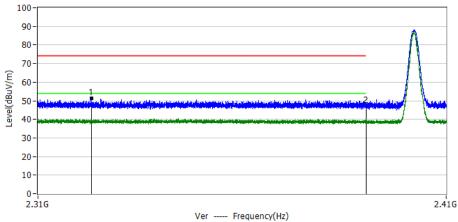


## 4.7 RADIATED BAND EDGE

Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 26.1°C
M/N: Bino01	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2023-04-20
Test Mode: BLE 2402	
Note:	



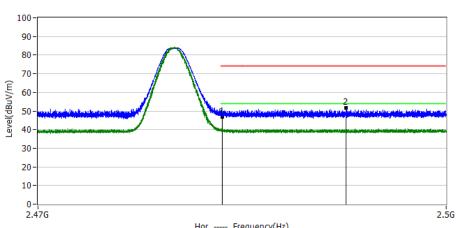
					10-1			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3369GHz	17.43	34.08	51.51	74.00	-22.49	PK	Hor
2*	2.3900GHz	13.65	33.95	47.60	74.00	-26.40	PK	Hor



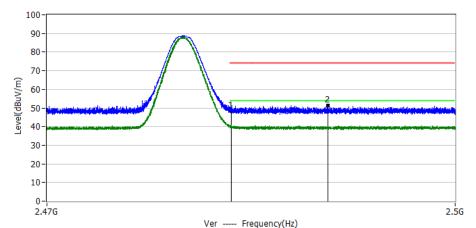
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3228GHz	17.29	34.11	51.40	74.00	-22.60	PK	Ver
2*	2.3900GHz	13.15	33.95	47.10	74.00	-26.90	PK	Ver



Project: LGT23D063	Test Engineer: Dylan.shi
EUT: Children's binoculars	Temperature: 26.1°C
M/N: Bino01	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2023-04-20
Test Mode: BLE 2480	
Note:	



	Hor Frequency(Hz)									
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar		
1*	2.4835GHz	12.57	34.13	46.70	74.00	-27.30	PK	Hor		
2*	2.4926GHz	17.65	34.15	51.80	74.00	-22.20	PK	Hor		



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar	
		dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi	
1*	2.4835GHz	14.17	34.13	48.30	74.00	-25.70	PK	Ver	
2*	2.4906GHz	17.16	34.14	51.30	74.00	-22.70	PK	Ver	



## 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### 5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

#### For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

#### 5.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

#### 5.5 TEST RESULTS

For the measurement records, refer to the appendix I.



## 6. POWER SPECTRAL DENSITY TEST

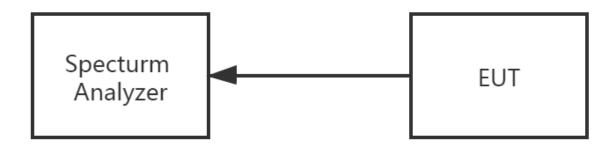
#### 6.1 LIMIT

FCC Part 15.247, Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result					
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS					

#### 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\ge$  RBW  $\ge$  3 kHz.
- 4. Set the VBW  $\ge$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

#### 6.5 TEST RESULTS

For the measurement records , refer to the appendix I.



## 7. BANDWIDTH TEST

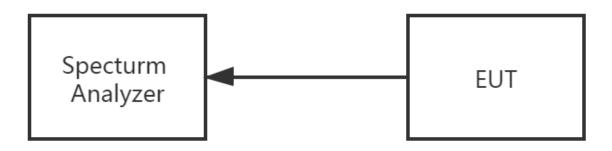
## 7.1 LIMIT

FCC Part 15.247, Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS			

## 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

## 7.3 TEST SETUP



#### 7.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

#### 7.5 TEST RESULTS

For the measurement records, refer to the appendix I.



## 8. PEAK OUTPUT POWER TEST

#### 8.1 LIMIT

FCC Part 15.247, Subpart C							
Section Test Item		Limit	Frequency Range (MHz)	Result			
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS			

#### 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

 $RBW \ge DTS$  bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW  $\geq$  DTS bandwidth.

b) Set VBW  $\geq$  [3  $\times$  RBW].

c) Set span  $\geq$  [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW  $\geq$  [3  $\times$  RBW].

c) Set the span  $\geq$  [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP

EUT	Power
	Sensor

8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

#### 8.5 TEST RESULTS

For the measurement records , refer to the appendix I.



#### 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD 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.

#### 9.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

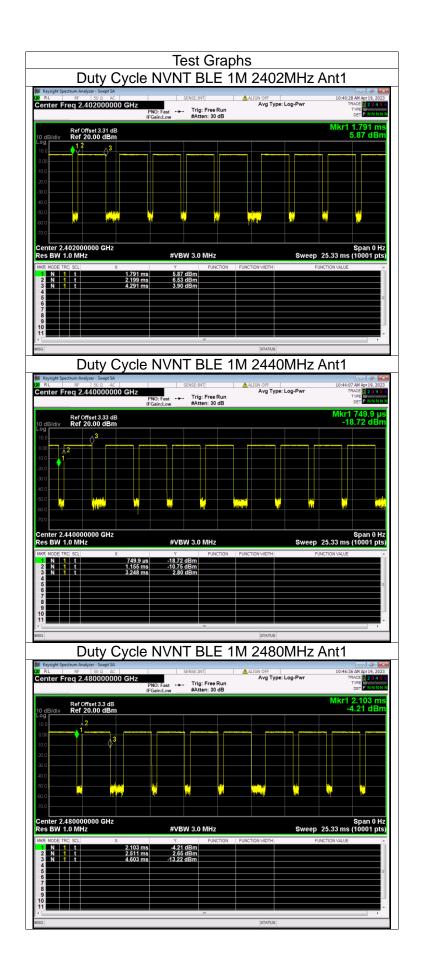


# **APPENDIX I - TEST RESULTS**

#### DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	83.69	0.77	0.48
NVNT	BLE 1M	2440	Ant1	83.77	0.77	0.48
NVNT	BLE 1M	2480	Ant1	83.69	0.77	0.48



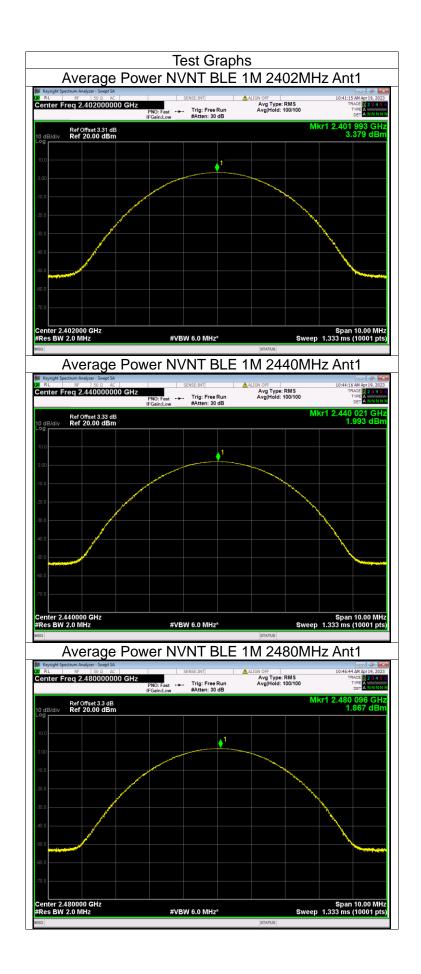




## MAXIMUM AVERAGE CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.38	0.77	4.15	30	Pass
NVNT	BLE 1M	2440	Ant1	1.99	0.77	2.76	30	Pass
NVNT	BLE 1M	2480	Ant1	1.87	0.77	2.64	30	Pass



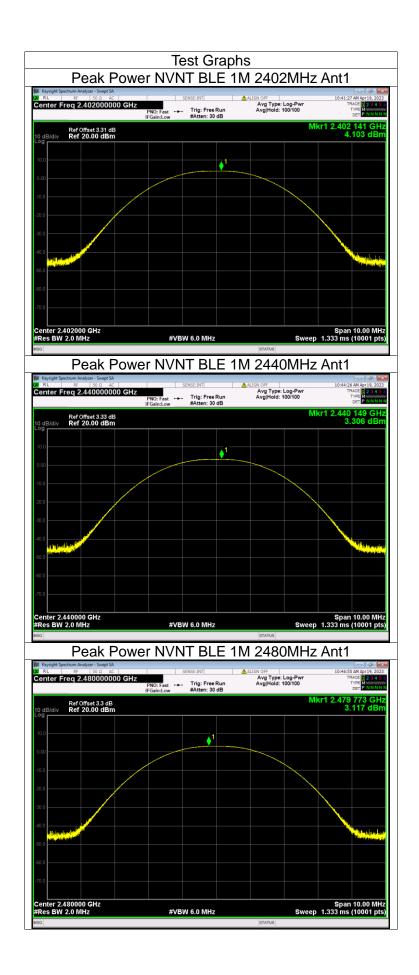




### MAXIMUM PEAK CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.1	30	Pass
NVNT	BLE 1M	2440	Ant1	3.31	30	Pass
NVNT	BLE 1M	2480	Ant1	3.12	30	Pass



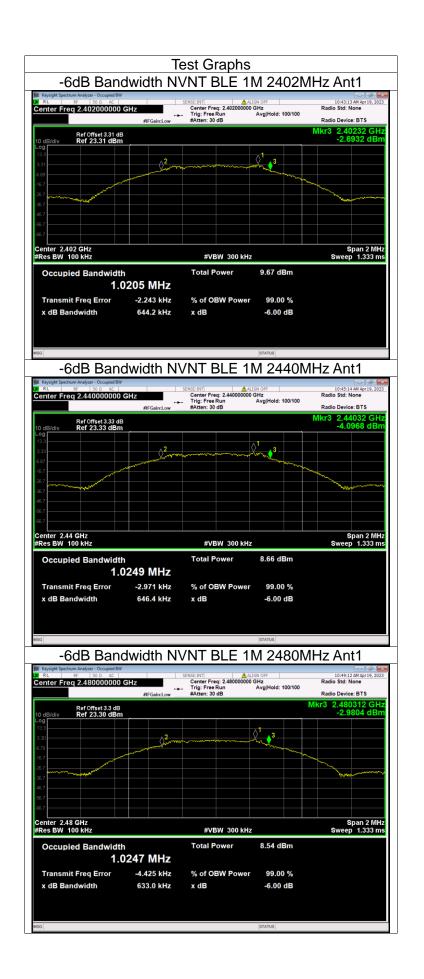




#### -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.644	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.646	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.633	0.5	Pass



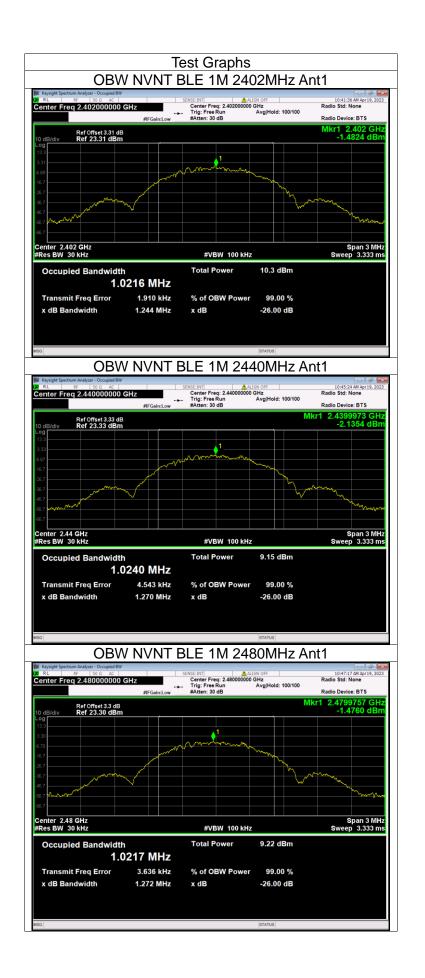




#### OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.022
NVNT	BLE 1M	2440	Ant1	1.024
NVNT	BLE 1M	2480	Ant1	1.022



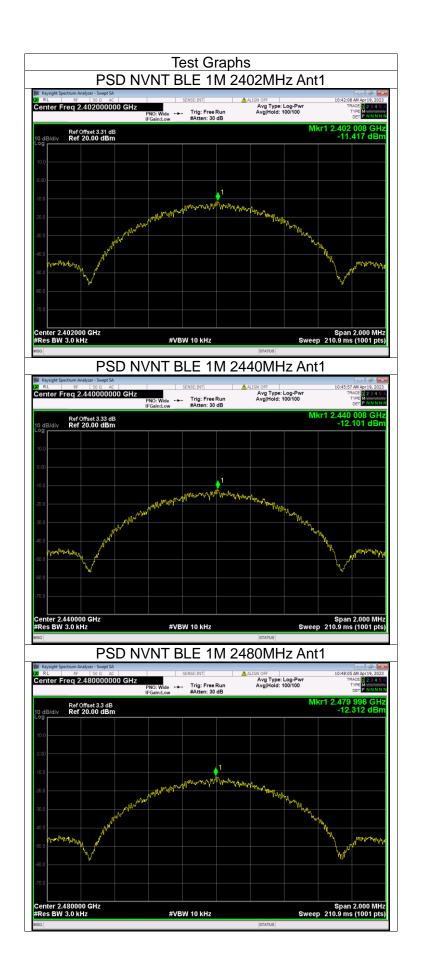




### MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-11.42	8	Pass
NVNT	BLE 1M	2440	Ant1	-12.1	8	Pass
NVNT	BLE 1M	2480	Ant1	-12.31	8	Pass



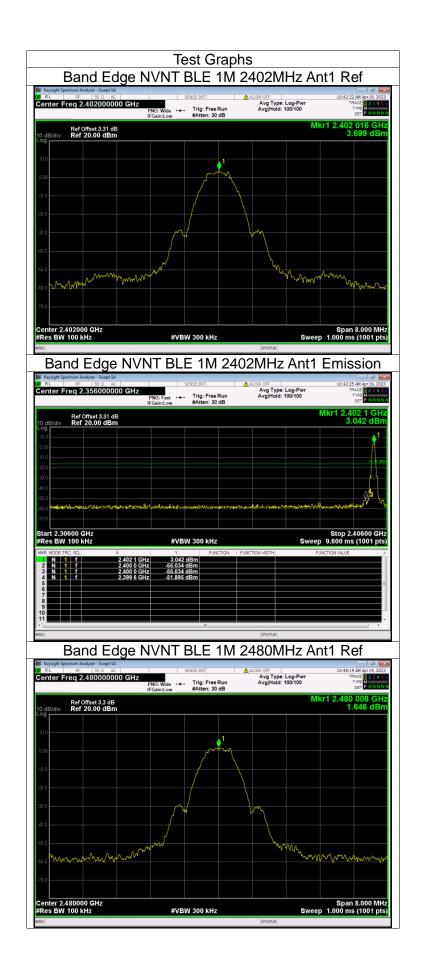




#### BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.97	-20	Pass







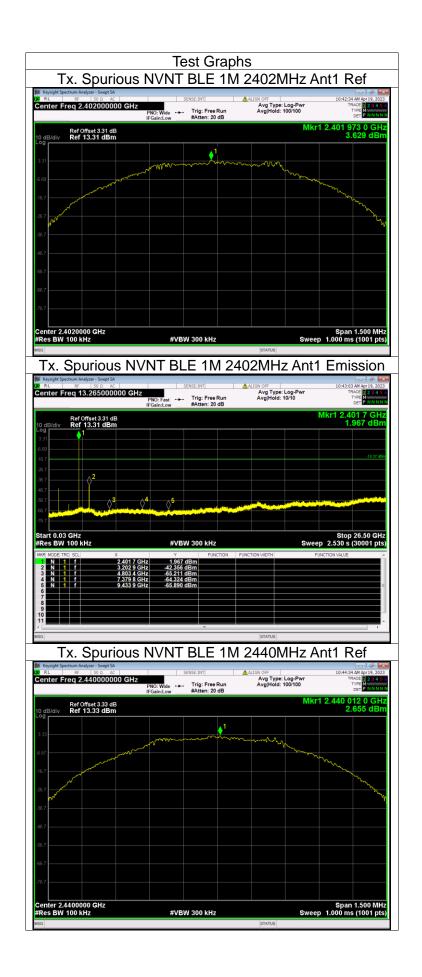
	ctrum Analyzer - Sw							- 0
Center Fr				rig: Free Run Atten: 30 dB		e: Log-Pwr I: 100/100	TF	2 AM Apr 19, 2023 RACE 1 2 3 4 5 TYPE M DET P NNNN
10 dB/div	Ref Offset 3. Ref 20.00							80 0 GHz 527 dBm
10.0								
0.00								
-10.0								-18.35 dBn
-20.0								-16.35 08
-30.0								
-40.0								
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-60.0 -70.0 Start 2.476 #Res BW	100 kHz	× 2.480 0 GHz 2.483 5 GHz	#VBW 3 Y 2.527 dBr -58.208 dBr	500 kHz		Sweep	Stop 2. 9.600 ms	57600 GHz
-60.0 -70.0 Start 2.476 #Res BW 7	100 kHz	× 2.480 0 GHz	#VBW 3	FUNCTION		Sweep	Stop 2. 9.600 ms	57600 GHz
-60.0 -70.0 Start 2.476 #Res BW 7	100 kHz	× 2.480 0 GHz 2.483 5 GHz 2.500 0 GHz	#VBW 3 2.527 dBr -58.208 dBr -57.430 dBr	FUNCTION		Sweep	Stop 2. 9.600 ms	57600 GHz
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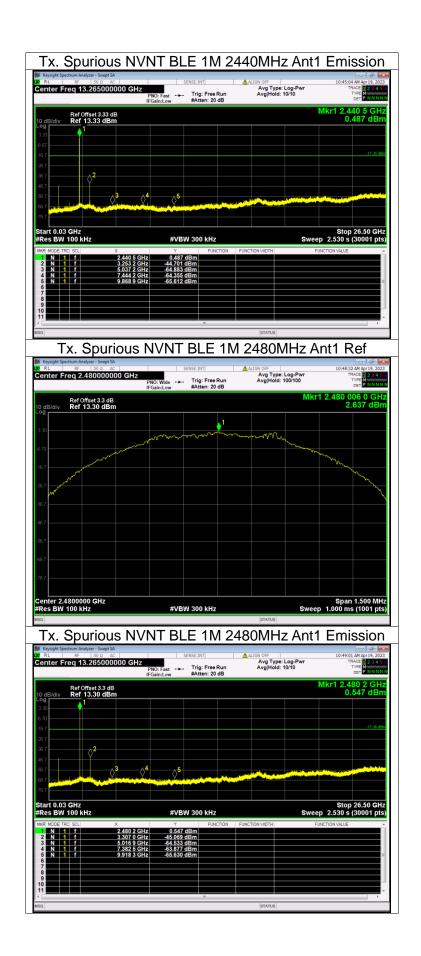
#### CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.98	-20	Pass
NVNT	BLE 1M	2440	Ant1	-47.36	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.7	-20	Pass





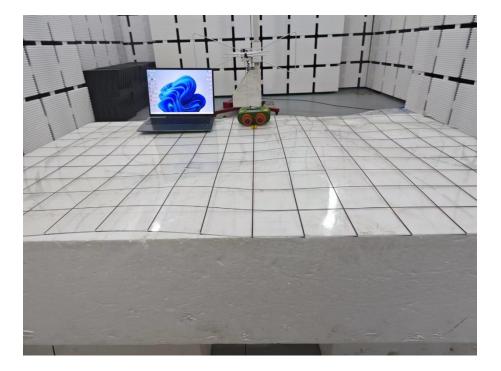






# **APPENDIX - TEST SETUP PHOTOS**

Radiated Spurious Emission Test Setup Photo - Below 1GHz

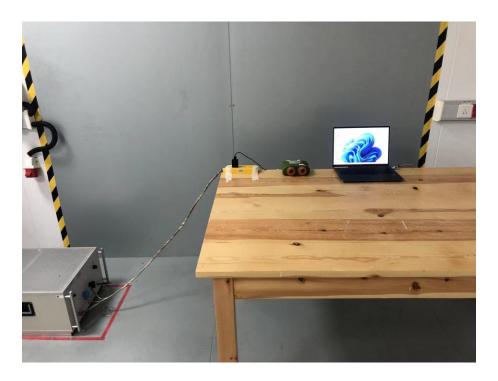


Radiated Spurious Emission Test Setup Photo - Above 1GHz





## Conducted Emission Test Setup Photo



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