

RF TEST REPORT

Product Name: Smart delivery Box

Model Name: UARK MINI, UARK

FCC ID: 2A72DOM-UARKMINI

Issued For : OMFOCUS (SHENZHEN) TECH., LTD

No.102, Floor 1, Building 31, No.78, Shahe Road Henggang Street, Longgang District, Shenzhen, Guangdong, China

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

Report Number:	LGT23F008RF02
Sample Received Date:	Jun. 08, 2023
Date of Test:	Jun. 08, 2023 – Jun. 27, 2023
Date of Issue:	Jun. 27, 2023

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TEST REPORT CERTIFICATION

Applicant:	OMFOCUS (SHENZHEN) TECH., LTD
Address:	No.102, Floor 1, Building 31, No.78, Shahe Road Henggang Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	OMFOCUS (SHENZHEN) TECH., LTD
Address:	No.102, Floor 1, Building 31, No.78, Shahe Road Henggang Street, Longgang District, Shenzhen, Guangdong, China
Product Name:	Smart delivery Box
Trademark:	OMUARK
Model Name:	UARK MINI, UARK
Sample Status:	Normal

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

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reali

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Revision History

Rev.	Issue Date	Contents
00	Jun. 27, 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	Test Item	Judgment	Remark	
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, Zhenxiong Industrial Park, No. Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China		
	A2LA Certificate No.: 6727.01		
Accreditation Certificate	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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB
9	Occupied Channel Bandwidth	±3.2 %

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Smart delivery Box			
Trademark:	OMUARK			
Model Name:	UARK MINI			
Series Model:	UARK			
Model Difference:	The differents customer regions sales area and named different models, its circuit principle, security structure, key components, etc, and the model difference does not affect the product safety, as well as Electromagnetic compatibility, and so on.			
	The EUT is a Smart deliver	y Box		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
Product Description:	Radio Technology:	BLE		
	Bluetooth Configuration:	BLE (1M PHY and 2M PHY)		
	Number Of Channel:	40		
	Antenna Designation:	Please refer to the Note 3.		
	Antenna Gain (dBi)	2.5		
Channel List:	Please refer to the Note 2.			
Rating:	Input: DC 7.4V 5W			
Battery:	N/A			
Hardware Version:	N/A			
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.



			Chan	nel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	OMUARK	UARK MINI	РСВ	N/A	2.5	BT 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
Mode 4	TX CH00(2402MHz)	2 MHz/GFSK
Mode 5	TX CH19(2440MHz)	2 MHz/GFSK
Mode 6	TX CH39(2480MHz)	2 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.(2) We have be 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.

(3) The battery is fully-charged during the radited and RF conducted test.

For AC Conducted Emission

Test Case			
AC Conducted Emission	Mode 7: Keeping BLE 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			
EMI_Test_Tool_1.0.0.0	1M	2.6			
	2M	2.6			



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

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^CLength₂ 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	2023.04.13	2024.04.12	
LISN	CPOWER	LI-115	02032	2023.04.07	2024.04.06	
LISN	SCHWARZBECK	NNLK 8121	00847	2023.04.07	2024.04.06	
LISN	SCHWARZBECK	NNLK 8122	00160	2023.04.07	2024.04.06	
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2023.04.07	2024.04.06	
Temperature & Humidity	КТЈ	TA218B	N.A	2023.04.24	2024.04.23	
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	2023.04.13	2024.04.12
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2025.06.04
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(9kHz-1GHz)	EMtrace	RP01A	02017	2023.04.07	2024.04.06
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
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	2023.04.10	2024.04.09	
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12	
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2023.04.07	2024.04.06	
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2023.04.13	2024.04.12	
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23	
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2023.05.10	2024.05.09	
Attenuator	eastsheep	90db	N.A	2023.04.10	2024.04.09	
Testing Software	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

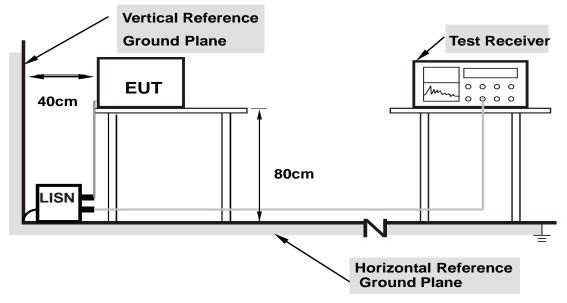
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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

N/A

According to the electrical construction of the EUT, there is no AC terminal incorporated and DC terminal which no dedicated AC/DC adaptor. Therefore this test is not applicable for this EUT.



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)

FREQUENCY (MHz)	(dBuV/m) (at 3M)			
	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)	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)
	200Hz (From 9kHz to 0.15MHz)/
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);
band)	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	120 KHz / 200 KHz
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)		
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)		
band)	1 MHz/1/T MHz(AVG)		
For Restricted band			
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Fraguanay	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	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



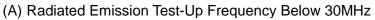
4.2 TEST PROCEDURE

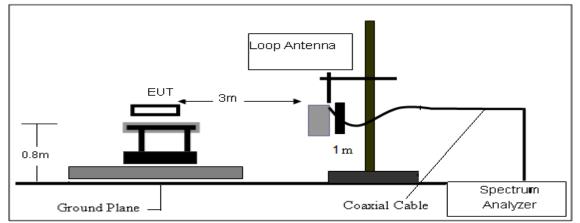
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

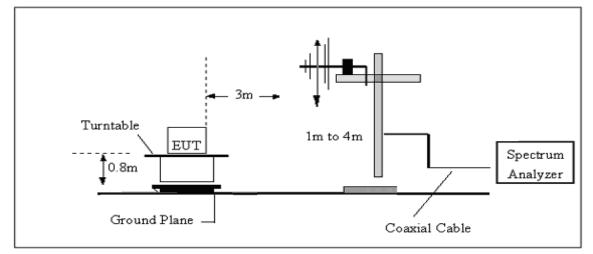


4.3 TEST SETUP

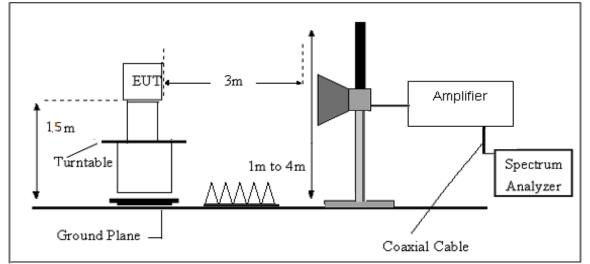




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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.

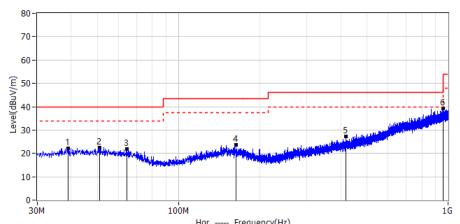
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

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

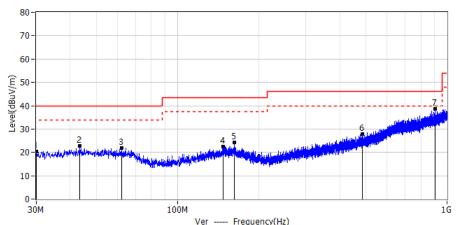


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT23F008	Test Engineer: Xiangdong Ma
EUT: Smart delivery Box	Temperature: 24.8°C
M/N: UARK MINI	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-06-10
Test Mode: BLE TX	
Note:	



				Hol Flequelic	(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	Frequency	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	FUIdi
1*	39.094MHz	2.96	19.23	22.19	40.00	-17.81	PK	Hor
2*	51.098MHz	3.27	19.28	22.55	40.00	-17.45	PK	Hor
3*	64.314MHz	3.63	18.37	22.00	40.00	-18.00	PK	Hor
4*	163.739MHz	3.83	19.82	23.65	43.50	-19.85	PK	Hor
5*	417.515MHz	4.14	23.11	27.25	46.00	-18.75	PK	Hor
6*	956.229MHz	5.12	34.08	39.20	46.00	-6.80	PK	Hor

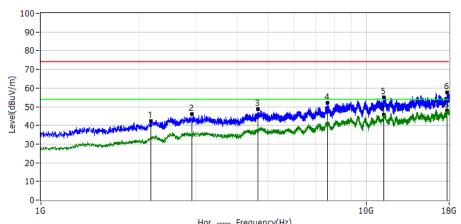


				ver Frequenc	((12)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
		dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	30.000MHz	2.05	18.20	20.25	40.00	-19.75	PK	Ver
2*	43.338MHz	3.51	19.27	22.78	40.00	-17.22	PK	Ver
3*	62.010MHz	3.48	18.52	22.00	40.00	-18.00	PK	Ver
4*	147.613MHz	2.82	19.77	22.59	43.50	-20.91	PK	Ver
5*	162.284MHz	4.50	19.83	24.33	43.50	-19.17	PK	Ver
6*	486.021MHz	3.20	24.64	27.84	46.00	-18.16	PK	Ver
7*	903.849MHz	5.29	33.26	38.55	46.00	-7.45	PK	Ver

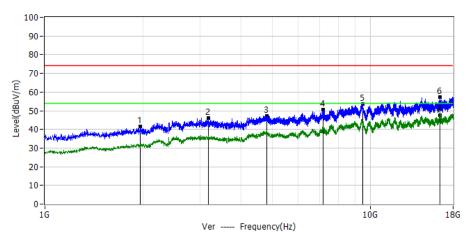


Results of Radiated Emissions (Above 1000MHz)

Project: LGT23F008	Test Engineer: Xiangdong Ma
EUT: Smart delivery Box	Temperature: 26.3°C
M/N: UARK MINI	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-06-16
Test Mode: BLE 1M 2402	
Note:	



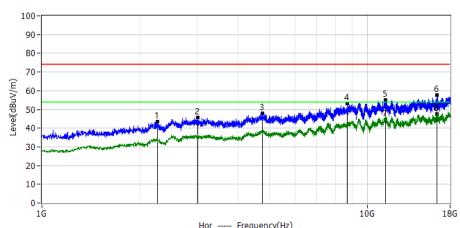
				Hor Frequence	y(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
	1.1.1.1.1.1.1.1.1	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	2.1751GHz	56.56	-14.39	42.17	74.00	-31.83	PK	Hor
2*	2.9082GHz	54.81	-8.83	45.98	74.00	-28.02	PK	Hor
3*	4.6529GHz	54.42	-5.87	48.55	74.00	-25.45	PK	Hor
4*	7.5854GHz	56.36	-4.24	52.12	74.00	-21.88	PK	Hor
5*	11.3487GHz	53.29	1.84	55.13	74.00	-18.87	PK	Hor
6*	17.7195GHz	49.38	8.32	57.70	74.00	-16.30	PK	Hor
7*	11.3487GHz	43.76	1.84	45.60	54.00	-8.40	AV	Hor
8*	17.7195GHz	39.68	8.32	48.00	54.00	-6.00	AV	Hor



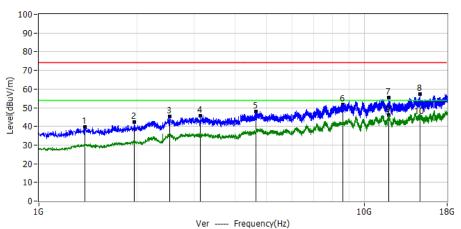
				ver rrequerio	.,((12)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.9669GHz	58.05	-16.57	41.48	74.00	-32.52	PK	Ver
2*	3.1781GHz	54.48	-8.40	46.08	74.00	-27.92	PK	Ver
3*	4.8059GHz	53.23	-5.99	47.24	74.00	-26.76	PK	Ver
4*	7.1731GHz	55.64	-5.21	50.43	74.00	-23.57	PK	Ver
5*	9.4787GHz	54.81	-1.17	53.64	74.00	-20.36	PK	Ver
6*	16.3701GHz	50.54	6.84	57.38	74.00	-16.62	PK	Ver
7*	16.3701GHz	40.76	6.84	47.60	54.00	-6.40	AV	Ver



Project: LGT23F008	Test Engineer: Xiangdong Ma
EUT: Smart delivery Box	Temperature: 26.3°C
M/N: UARK MINI	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-06-16
Test Mode: BLE 1M 2440	
Note:	



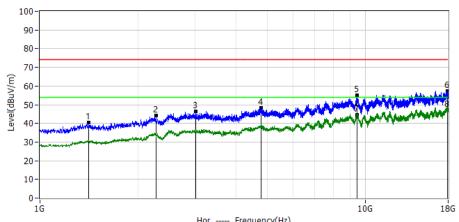
				Hor Frequenc	y(H2)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.2644GHz	57.01	-13.46	43.55	74.00	-30.45	PK	Hor
2*	3.0166GHz	53.92	-8.35	45.57	74.00	-28.43	PK	Hor
3*	4.7634GHz	53.82	-5.96	47.86	74.00	-26.14	PK	Hor
4*	8.6840GHz	55.33	-2.06	53.27	74.00	-20.73	PK	Hor
5*	11.3679GHz	53.36	1.85	55.21	74.00	-18.79	PK	Hor
6*	16.3807GHz	50.87	6.85	57.72	74.00	-16.28	PK	Hor
7*	11.3679GHz	42.75	1.85	44.60	54.00	-9.40	AV	Hor
8*	16.3807GHz	40.65	6.85	47.50	54.00	-6.50	AV	Hor



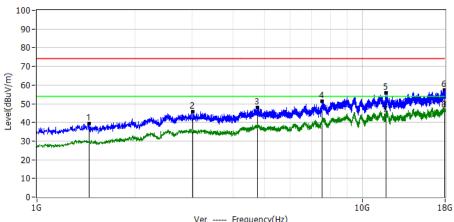
				ver Frequenc	3(112)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3846GHz	61.12	-21.50	39.62	74.00	-34.38	PK	Ver
2*	1.9669GHz	58.81	-16.57	42.24	74.00	-31.76	PK	Ver
3*	2.5236GHz	56.30	-10.86	45.44	74.00	-28.56	PK	Ver
4*	3.1292GHz	54.10	-8.38	45.72	74.00	-28.28	PK	Ver
5*	4.6529GHz	53.93	-5.87	48.06	74.00	-25.94	PK	Ver
6*	8.5841GHz	54.16	-2.35	51.81	74.00	-22.19	PK	Ver
7*	11.9289GHz	53.15	2.18	55.33	74.00	-18.67	PK	Ver
8*	14.8592GHz	51.31	5.95	57.26	74.00	-16.74	PK	Ver
9*	11.9289GHz	43.72	2.18	45.90	54.00	-8.10	AV	Ver
10*	14.8592GHz	39.05	5.95	45.00	54.00	-9.00	AV	Ver



Project: LGT23F008	Test Engineer: Xiangdong Ma	
EUT: Smart delivery Box	Temperature: 26.3°C	
M/N: UARK MINI	Humidity: 49%RH	
Test Voltage: Battery	Test Data: 2023-06-16	
Test Mode: BLE 1M 2480		
Note:		



				Hor Frequenc	y(112)			
No.	Frequency	Reading	Factor			Margin	Detector	Polar
		dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	1.4144GHz	61.66	-21.30	40.36	74.00	-33.64	PK	Hor
2*	2.2707GHz	57.59	-13.39	44.20	74.00	-29.80	PK	Hor
3*	3.0187GHz	54.72	-8.35	46.37	74.00	-27.63	PK	Hor
4*	4.7846GHz	54.39	-5.97	48.42	74.00	-25.58	PK	Hor
5*	9.4554GHz	56.20	-1.17	55.03	74.00	-18.97	PK	Hor
6*	17.9554GHz	48.87	8.49	57.36	74.00	-16.64	PK	Hor
7*	9.4554GHz	45.77	-1.17	44.60	54.00	-9.40	AV	Hor
8*	17.9554GHz	38.61	8.49	47.10	54.00	-6.90	AV	Hor



				Ver Frequence	y(Hz)			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4441GHz	60.30	-21.14	39.16	74.00	-34.84	PK	Ver
2*	3.0124GHz	53.93	-8.34	45.59	74.00	-28.41	PK	Ver
3*	4.7612GHz	53.99	-5.96	48.03	74.00	-25.97	PK	Ver
4*	7.5386GHz	55.45	-4.27	51.18	74.00	-22.82	PK	Ver
5*	11.8269GHz	53.66	2.12	55.78	74.00	-18.22	PK	Ver
6*	17.9001GHz	48.88	8.45	57.33	74.00	-16.67	PK	Ver
7*	11.8269GHz	41.68	2.12	43.80	54.00	-10.20	AV	Ver
8*	17.9001GHz	37.95	8.45	46.40	54.00	-7.60	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

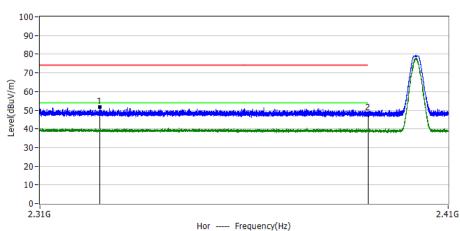


less than 20dB below the limit. No recording in the test report.

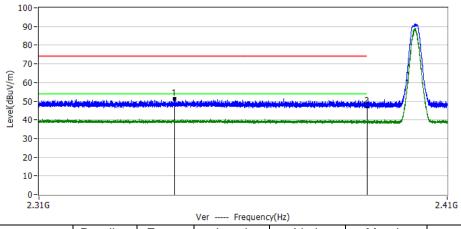


4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT23F008	Test Engineer: Xiangdong Ma	
EUT: Smart delivery Box	Temperature: 26.3°C	
M/N: UARK MINI	Humidity: 49%RH	
Test Voltage: Battery	Test Data: 2023-06-16	
Test Mode: BLE 2M 2402		
Note:		



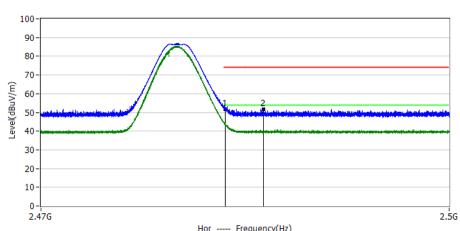
					10.00			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3244GHz	17.48	34.11	51.59	74.00	-22.41	PK	Hor
2*	2.3900GHz	14.55	33.95	48.50	74.00	-25.50	PK	Hor



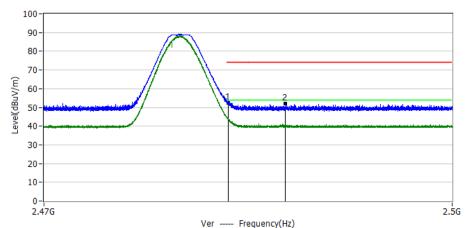
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3428GHz	17.16	34.06	51.22	74.00	-22.78	PK	Ver
2*	2.3900GHz	13.35	33.95	47.30	74.00	-26.70	PK	Ver



Project: LGT23F008	Test Engineer: Xiangdong Ma
EUT: Smart delivery Box	Temperature: 26.3°C
M/N: UARK MINI	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2023-06-16
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	17.57	34.13	51.70	74.00	-22.30	PK	Hor
2*	2.4863GHz	17.53	34.13	51.66	74.00	-22.34	PK	Hor



				tel liequelle	10			
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	18.17	34.13	52.30	74.00	-21.70	PK	Ver
2*	2.4877GHz	17.80	34.14	51.94	74.00	-22.06	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.

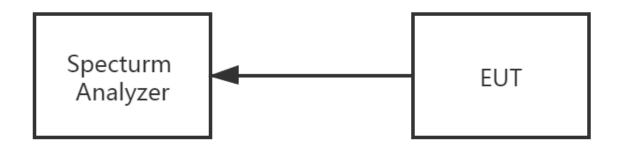
5.2 TEST PROCEDURE

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		
	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 which is powered by the \${ POWER BY}, 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

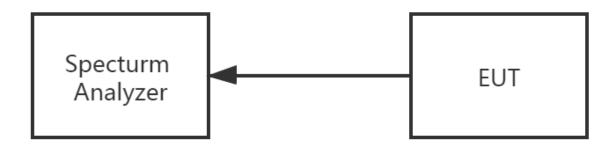
FCC Part 15.247, Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(e)	15.247(e) Power Spectral Density		2400-2483.5	PASS			

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 \geq 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	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 × 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	100	0	0.01
NVNT	BLE 1M	2440	Ant1	100	0	0.01
NVNT	BLE 1M	2480	Ant1	100	0	0.01
NVNT	BLE 2M	2402	Ant1	100	0	0.01
NVNT	BLE 2M	2440	Ant1	100	0	0.01
NVNT	BLE 2M	2480	Ant1	100	0	0.01







pectrum Analyzer 1 wept SA	· +		l 2402MHz Ant	
EYSIGHT Input: RF L + Coupling: DC Align: Auto	Input Z: 50 Ω #Atten: 30 Corr CCorr Freq Ref: Int (S)		Type: Log-Power 1 2 3 4 5 6 Free Run W W W W W W P N N N N N	
Spectrum v		Ref LvI Offset 3.01 dB		Mkr1 2.500 m 0.42 dB
cale/Div 10 dB		Ref Level 20.00 dBm		0.42 dBi
0.00	Hiss Brieffingson and Statistical Distance in Statistical Distance in Statistical Distance in Statistical Dista			
20.0				
40.0				
50.0 70.0				
enter 2.402000000 GHz es BW 1.0 MHz		#Video BW 3.0 MHz		Span 0 I Sweep 5.00 ms (10001 pt
Marker Table v				· · ·
Mode Trace Scale	X 2.500 ms	Y Fund 0.4195 dBm	ction Function Width	Function Value
2 3 4 5 6				
	? Jun 08, 2023			
pectrum Analyzer 1		IVNT BLE 2W	I 2440MHz Ant	1
wept SA		dB PNO:Fast Avg	Type: Log-Power 1 2 3 4 5 6	
L + Align: Auto	Corr CCorr Freq Ref: Int (S)	Gate: Off Trig: IF Gain: Low Sig Track: Off	Free Run WWWWW PNNNN	
Spectrum v cale/Div 10 dB		Ref LvI Offset 3.03 dB Ref Level 20.00 dBm		Mkr1 2.500 m 2.85 dBi
.og 10.0 0.00		1		
10.0				
40.0				
50.0				
70.0 enter 2.440000000 GHz		#Video BW 3.0 MHz		Span 0 l
tes BW 1.0 MHz		#VIGEO BW 5.0 MINZ		Sweep 5.00 ms (10001 pt
Marker Table •	X	Y Fund	ction Function Width	Function Value
1 N 1 t 2	2.500 ms	2.849 dBm		
3 4 5				
6				
	? Jun 08, 2023 10:53:44 PM			
	Duty Cycle N	VNT BLE 2N	1 2480MHz Ant	1
pectrum Analyzer 1 wept SA	• +			
L + Auto	Input Z: 50 Ω #Atten: 30 Corr CCorr Freq Ref: Int (S)	dB PNO: Fast Avg Gate: Off Trig: IF Gain: Low Sig Track: Off	Type: Log-Power 1 2 3 4 5 6 Free Run W W W W W W <	
Spectrum v scale/Div 10 dB		Ref LvI Offset 3.00 dB Ref Level 20.00 dBm		Mkr1 2.500 m 0.95 dB
.og				
0.00				
20.0				
40.0				
60.0				
enter 2.480000000 GHz les BW 1.0 MHz		#Video BW 3.0 MHz		Span 0 Sweep 5.00 ms (10001 pt
i Marker Table 🔹 🔻				
Mode Trace Scale	X 2.500 ms	Y Fund 0.9533 dBm	ction Function Width	Function Value
2 3 4				
5				
6				



Limit

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)
		2402	A mtd	2 5 2

Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.52	30	Pass
NVNT	BLE 1M	2440	Ant1	3.61	30	Pass
NVNT	BLE 1M	2480	Ant1	3.31	30	Pass
NVNT	BLE 2M	2402	Ant1	3.53	30	Pass
NVNT	BLE 2M	2440	Ant1	3.61	30	Pass
NVNT	BLE 2M	2480	Ant1	3.33	30	Pass



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.699	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.684	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.689	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.236	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.415	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.32	0.5	Pass







-6dB Bandwidth N	NVNT BLE	2M 2402MHz A	nt1
Spectrum Analyzer 1 The sector of the sector			
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB RL Coupling: DC Corr CCorr Align: Auto Freq Ref: Int (S)	Gate: Off Avg	ter Freq: 2.402000000 GHz Hold: 100/100 io Std: None	
1 Graph ▼ Scale/Div 10.0 dB	Ref Lvi Offset 3.01 dB Ref Value 23.01 dBm		Mkr3 2.402606000 GHz -4.69 dBm
Log 130 3.01 -0.99		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3
-17.0 -27.0 -37.0			
-47.0 -57.0 -67.0			
Center 2.402000 GHz #Res BW 100.00 kHz	#Video BW 300.00 kHz		Span 2 MHz Sweep 1.33 ms (10001 pts)
2 Metrics •		Measure Trace Trace	1
Occupied Bandwidth 1.8498 MHz Transmit Freq Error -11.857 kHz		Total Power	10.1 dBm 99.00 %
x dB Bandwidth 1.236 MHz		x dB	-6.00 dB
-6dB Bandwidth N Spectrum Analyzer 1 Occupied BW	NVNI BLE	2M 2440MHz A	nt1
KEYSIGHT Input: RF Input: Z 50 Ω Atten: 30 dB R L → Align: Auto Freq Ref: Int (S)	Gate: Off Avg	ter Freq: 2.440000000 GHz Hold: 100/100 io Std: None	
1 Graph v Scale/Div 10.0 dB	Ref LvI Offset 3.03 dB Ref Value 23.03 dBm		Mkr3 2.440691000 GHz -6.12 dBm
Log 130 3.03 -0.97 -0.97		man water	3
-17.0 -27.0 -37.0			
47.0 			
Center 2.440000 GHz #Res BW 100.00 kHz	#Video BW 300.00 kHz		Span 2 MHz Sweep 1.33 ms (10001 pts)
2 Metrics •		Measure Trace Trace	1
Occupied Bandwidth 1.8451 MHz Transmit Freq Error -16.334 kHz		Total Power % of OBW Power	10.1 dBm 99.00 %
x dB Bandwidth 1.415 MHz		x dB	-6.00 dB
-6dB Bandwidth N	NVNT BLE :	2M 2480MHz A	nt1
Occupied BW Input: RF Input: Z 50 Ω Atten: 30 dB RL ↔ Align: Auto Complexity Freq Ref. Int (S) Atten: 30 dB	Gate: Off Avg	ter Freq: 2.480000000 GHz Hold: 100/100 io Std: None	
1 Graph v Scale/Div 10.0 dB	Ref LvI Offset 3.00 dB Ref Value 23.00 dBm		Mkr3 2.480648000 GHz -5.27 dBm
Log 13.0 3.00 -7.00 	· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3
-17.0 -27.0 -37.0			
-47.0 -57.0 -67.0			
Center 2.480000 GHz #Res BW 100.00 kHz	#Video BW 300.00 kHz	<u> </u>	Span 2 MHz Sweep 1.33 ms (10001 pts)
2 Metrics		Measure Trace Trace	1
Occupied Bandwidth 1.8345 MHz Transmit Freq Error -12.227 kHz		Total Power % of OBW Power	9.99 dBm 99.00 %
x dB Bandwidth 1.320 MHz		x dB	-6.00 dB
I O O D D O D D O D D D D D D D D D D			



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.014
NVNT	BLE 1M	2440	Ant1	1.021
NVNT	BLE 1M	2480	Ant1	1.035
NVNT	BLE 2M	2402	Ant1	2.027
NVNT	BLE 2M	2440	Ant1	2.011
NVNT	BLE 2M	2480	Ant1	2.087







OBW NVNT BLE 2M 2402MHz Ant1 Spectrum Analyzer 1 Dccupied BW • + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Trig: Free Run Center Freq: 2.402000000 GHz Gate: Off Avg|Hold: 100/100 #IF Gain: Low Radio Std: None Align: Auto 1 Graph Mkr1 2.402465000 GH Ref LvI Offset 3.01 dB Ref Value 23.01 dBm -0.77 dBn ale/Div 10.0 dB **1** Span 3 MHz Sweep 3.33 ms (10001 pts) Center 2.402000 GHz #Res BW 30.000 kHz #Video BW 91.000 kHz . Measure Trace Occupied Bandwidth 2.0269 MHz 11.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -40.355 kHz 2.524 MHz 99.00 % -26.00 dB E 5 C 1 ? Jun 08, 2023 X OBW NVNT BLE 2M 2440MHz Ant1 pectrum Analyzer 1 ccupied BW • + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Center Freq: 2.440000000 GHz Gate: Off Avg|Hold: 100/100 #IF Gain: Low Radio Std: None KEYSIGHT Input: RF Atten: 30 dB Align: Auto Mkr1 2.439860200 GHz -1.71 dBm Ref LvI Offset 3.03 dB Ref Value 23.03 dBm Scale/Div 10.0 dB **∮**1 Span 3 MHz Sweep 3.33 ms (10001 pts) Center 2.440000 GHz #Res BW 30.000 kHz #Video BW 100.00 kHz 2 Metrics Measure Trace Occupied Bandwidth 2.0110 MHz Total Power 11.6 dBm Transmit Freq Error x dB Bandwidth -42.779 kHz 2.599 MHz % of OBW Power x dB 99.00 % -26.00 dB X **手 つ で 回 ?** Jun 08, 2023 💬 OBW NVNT BLE 2M 2480MHz Ant1 pectrum Analyzer 1 ccupied BW • + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Trig: Free Run Center Freq: 2.480000000 GHz Gate: Off Avg|Hold: 100/100 #IF Gain: Low Radio Std: None Atten: 30 dB Align: Auto Mkr1 2.480130500 GHz 1 Graph Ref LvI Offset 3.00 dB Ref Value 23.00 dBm cale/Div 10.0 dB -2.44 dBr ø Span 3 MHz Sweep 3.33 ms (10001 pts) Center 2.480000 GHz #Res BW 30.000 kHz #Video BW 100.00 kHz 2 Metrics Measure Trace Occupied Bandwidth 2.0871 MHz 11.1 dBm Total Power Transmit Freq Error x dB Bandwidth -17.125 kHz 2.559 MHz % of OBW Power x dB 99.00 % -26.00 dB Jun 08, 2023 ア 10:56:58 PM ア \gtrsim

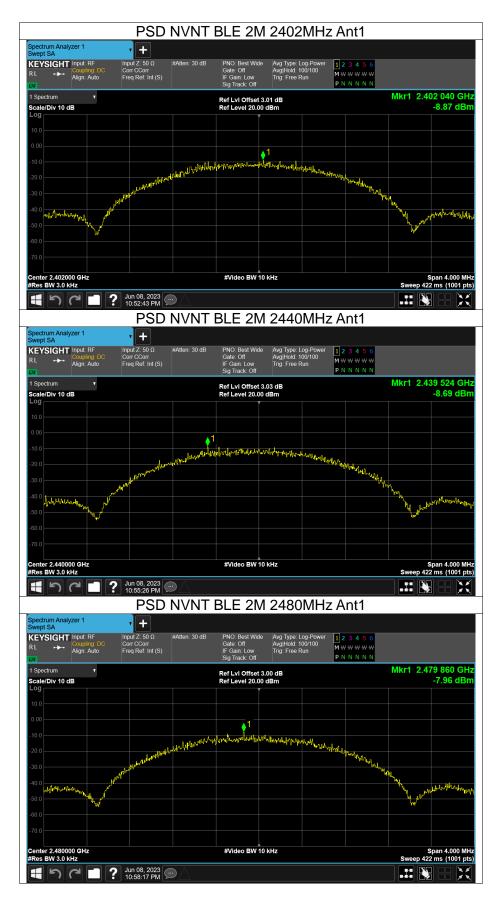


Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-5.77	8	Pass
NVNT	BLE 1M	2440	Ant1	-5.58	8	Pass
NVNT	BLE 1M	2480	Ant1	-6.25	8	Pass
NVNT	BLE 2M	2402	Ant1	-8.87	8	Pass
NVNT	BLE 2M	2440	Ant1	-8.69	8	Pass
NVNT	BLE 2M	2480	Ant1	-7.96	8	Pass







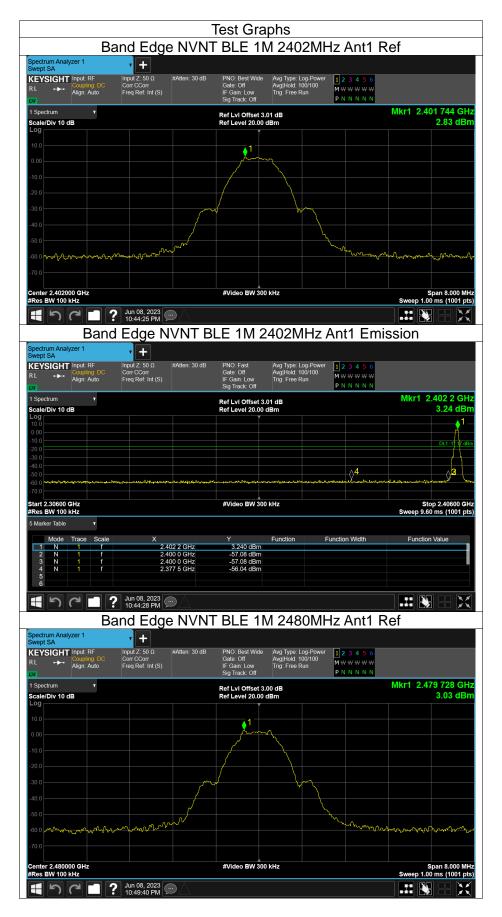




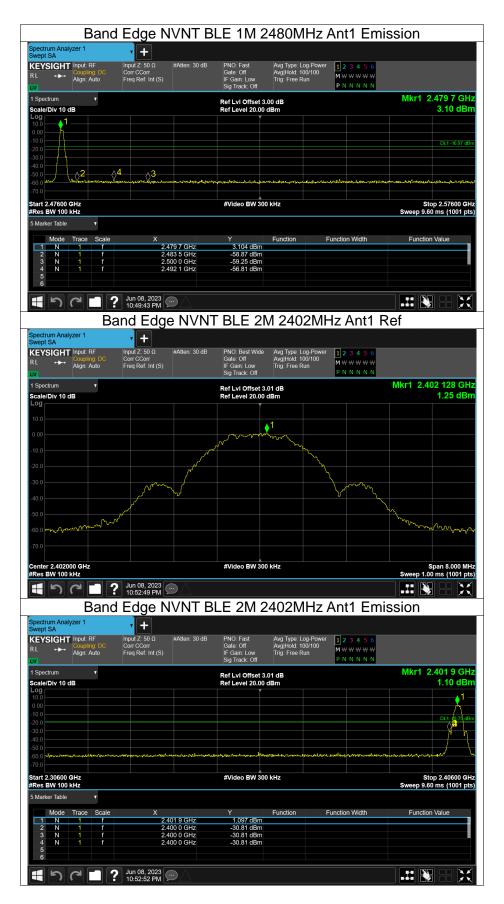
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-58.87	-20	Pass
NVNT	BLE 1M	2480	Ant1	-59.83	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.06	-20	Pass
NVNT	BLE 2M	2480	Ant1	-57.97	-20	Pass

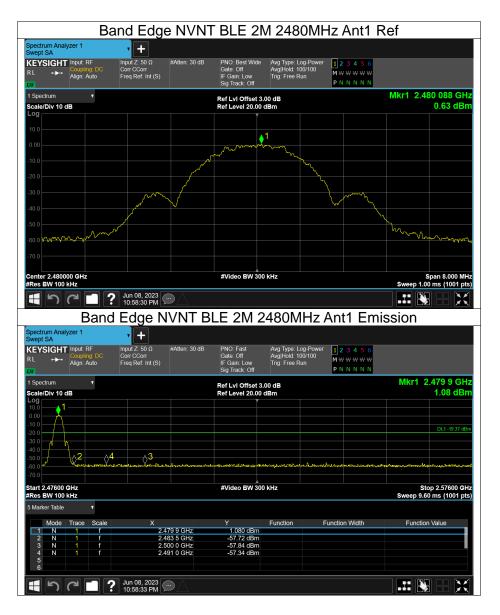














Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.01	-20	Pass
NVNT	BLE 1M	2440	Ant1	-57.08	-20	Pass
NVNT	BLE 1M	2480	Ant1	-57.97	-20	Pass
NVNT	BLE 2M	2402	Ant1	-57.21	-20	Pass
NVNT	BLE 2M	2440	Ant1	-58.1	-20	Pass
NVNT	BLE 2M	2480	Ant1	-57.29	-20	Pass



