



RADIO TEST REPORT FCC ID: 2ABYN031

Product:	Knowled M600D Daylight LED Light	
Trade Mark:	Godox	
Model No.:	M600D,M600D-CL(Controller)	
Family Model:	N/A	
Report No.:	S21081201102001	
Issue Date:	Dec 08. 2021	

Prepared for

GODOX PHOTO EQUIPMENT CO.LTD

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Prepared by

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Applicant's name	: GODOX PHOTO EQUIPMENT (
••				
Address	•			
	Shenzhen, 518103 China	Industrial Zone, Tangwei Community, Fuhai Street, Baoan District,		
Manufacturer's Name				
Address	Building 3,1st to 4th Floor of E	Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,		
Product description				
Product name	: Knowled M600D Daylight LED L	ight		
Model and/or type reference	: M600D,M600D-CL(Controller)			
Family Model	: N/A			
Measurement Procedure Use	d:			
	APPLICABLE STANDARD	S		
APPLICABLE STAN	DARD/ TEST PROCEDURE	TEST RESULT		
FCC 47 CI	FR Part 2, Subpart J			
FCC 47 CF	R Part 15, Subpart C			
ANS	I C63.10-2013	Complied		
	247 Meas Guidance v05r02			
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2 SUMMARY OF TEST RESULTS				
FCC Part15 (15.247), Subpart C				
Standard Section	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		
Standard Section 15.207 15.247 (a)(2) 15.247 (b) 15.209 (a) 15.205 (a) 15.247 (b) 15.247 (c) 15.247 (d) 15.247 (d) 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.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
Name of Firm Site Location	 Shenzhen NTEK Testing Technology Co., Ltd. 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	Knowled M600D Daylight LED Light	
Trade Mark Godox		
FCC ID	2ABYN031	
Model No.	M600D,M600D-CL(Controller)	
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	0.54 dBi	
Power supply	AC Input:AC 100-240V,50/60Hz,10A DC Input:DC 48V,15A Battery Rating: DC14.8V,150Wh/DC 26V,260Wh	
HW Version	20200912C01	
SW Version	V1.0	

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** Initial issue of report S21081201102001 Rev.01 Dec 08.2021





5 DESCRIPTION OF TEST MODES

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+k×2MHz 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		
	GFSK		
AC Conducted Emission	Mode 1: Tx Ch19_2440MHz_1Mbps		
	Mode 1: Tx Ch19_2440MHz_1Mbps		
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	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. (duty cycle =100% during the test)

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 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For AC Conducted Emission Test Cases	
AC PLUG	
For Radiated Test Cases	
AC PLUG	
For Conducted Test Cases	
MeasurementEUT	
Note: The temporary antenna connector is soldered on the PCB board in order	to perform conducted
tests and this temporary antenna connector is listed in the equipment list.	





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	Model/Type No.	Series No.	Note

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

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

aulatic	ona Conducted I	estequipment				-	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	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	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.07.01	2022.06.30	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.07.01	2022.06.30	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	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	2023.05.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 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	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	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	2021.04.27	2022.04.26	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

Frequency(MHz)	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

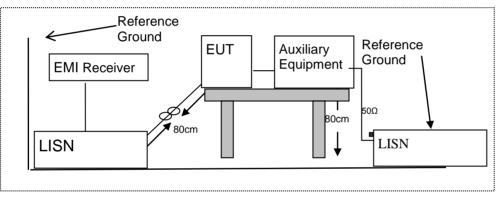
2. The lower limit shall apply at the transition frequencies

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.



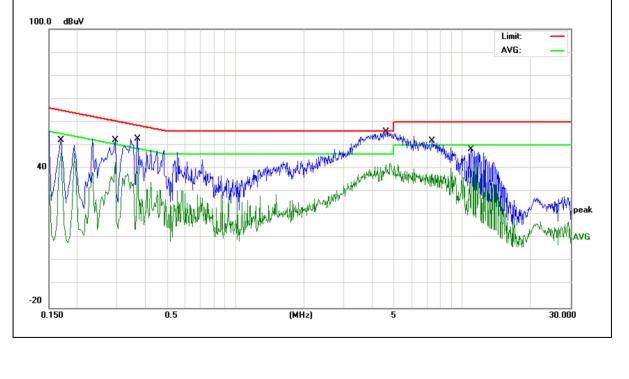
7.1.6 Test Results

EUT: Knowled M600D Daylight LED Light		Model Name : Me		M600E er)	M600D,M600D-CL(Controll er)		
Temperature:	24.5 ℃		Relative Hum	nidity:	59%		
Pressure:	1010hPa		Phase :		L		
Test Voltage :	AC 120V	/60Hz	Test Mode:		Mode	1	
Frequency	Reading Level	Correct I Factor	Measure-men t	Lim	its	Margin	Remar
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµ	ıV)	(dB)	k
0.1700	42.42	9.69	52.11	64.9	96	-12.85	QP
0.1700	28.23	9.69	37.92	54.9	96	-17.04	AVG
0.2939	42.49	9.63	52.12	60.4	41	-8.29	QP
0.2939	32.86	9.63	42.49	50.4	41	-7.92	AVG
0.3699	43.08	9.64	52.72	58.5	50	-5.78	QP
0.3699	31.52	9.64	41.16	48.5	50	-7.34	AVG
4.6059	45.12	9.68	54.80	56.0	00	-1.20	QP
4.6059	32.57	9.68	42.25	46.0	00	-3.75	AVG
7.3619	42.16	9.70	51.86	60.0	00	-8.14	QP
7.3619	27.80	9.70	37.50	50.0	00	-12.50	AVG
10.9539	38.54	9.73	48.27	60.0	00	-11.73	QP
10.9539	29.12	9.73	38.85	50.0	00	-11.15	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3

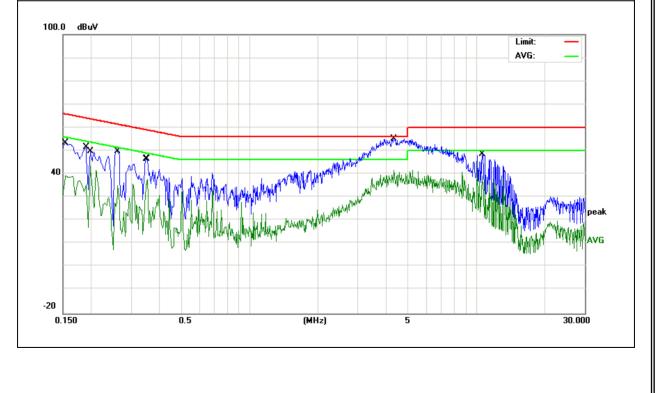




EUT: Knowled LED Light		ed M600D Daylight M		Model Name :		M600D,M600D-CL(Cont roller)		
Temperature	:	24.5 ℃			Relative H	lumidity:	59%	
Pressure:		1010hPa			Phase :		N	
Test Voltage :		AC 120V	/60Hz		Test Mode	Э:	Mode 1	
Frequency	Rea	ding Level	Correct Factor	Mea	sure-ment	Limits	Margin	Damari
(MHz)	((dBµV)	(dB)		(dBµV)	(dBµV)	(dB)	- Remark
0.1539		43.69	9.72		53.41	65.78	-12.37	QP
0.1555		29.29	9.72		39.01	55.70	-16.69	AVG
0.1900		41.80	9.65		51.45	64.03	-12.58	QP
0.1980		33.84	9.63		43.47	53.69	-10.22	AVG
0.2620		40.08	9.63		49.71	61.36	-11.65	QP
0.2630		23.46	9.63		33.09	51.33	-18.24	AVG
0.3499		36.77	9.63		46.40	58.96	-12.56	QP
0.3539		28.17	9.64		37.81	48.87	-11.06	AVG
4.3338		44.12	9.68		53.80	56.00	-2.20	QP
4.3338		32.07	9.68		41.75	46.00	-4.25	AVG
10.5818		38.72	9.72		48.44	60.00	-11.56	QP
10.5818		29.54	9.72		39.26	50.00	-10.74	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.3





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

recording to 1 OO 1 art 10:200, restricted bands					
MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358			

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.



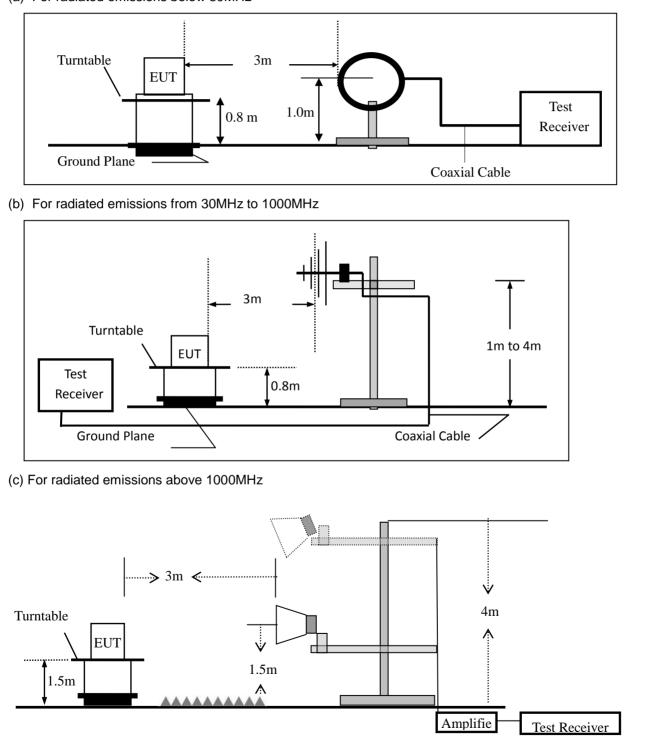


7.2.3 Measuring Instruments

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:

Setting
Auto
1000 MHz
10th carrier harmonic
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	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:					
Freque	ency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth		
	30 to 1000	QP	120 kHz	300 kHz		
	h	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

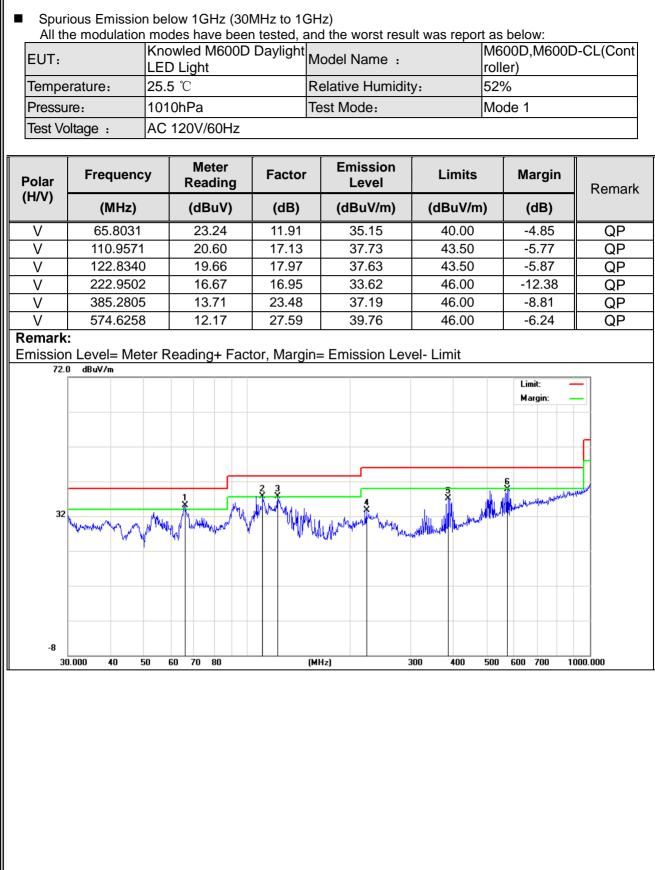
■ Spurious Emission below 30MHz (9KHz to 30MHz)					
	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode: Mode2/Mode3/Mode4		Test By:	Mary Hu		

Freq.	Ant.Pol.	Emission Level(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.

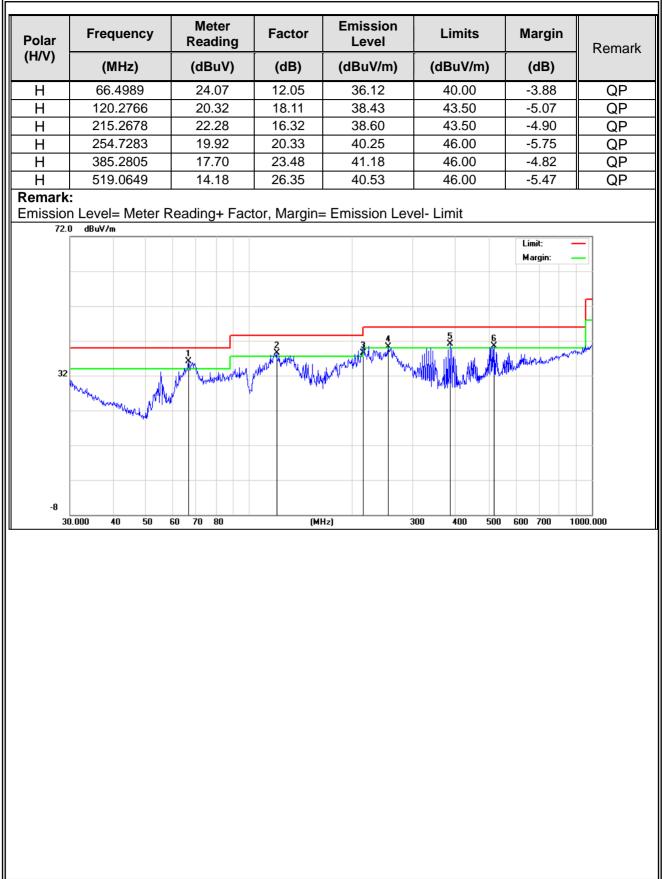
















 Spurious Emission Above 1GHz (1GHz to 25GHz) EUT: Knowled M600D Daylight Model No.: M600D,M600D-CL(Controller) 												
EUT:	۴ L	Knowled N .ED Light	1600D Da	ylight	Mo	del No.:		M6	00D,M60	0D-CL(Co	ntroller)	
Temperature	e: 2	20 °C		Relative Humidity:					48%			
Test Mode:	Ν	/lode2/Mod	de3/Mode4	4	Tes	st By:		Ма	ry Hu			
						-			-			
Frequency	Read Level	Cable loss	Antenna Factor	Prea Fact		Emission Level	Limit	s	Margin	Remark	Comment	
(MHz)	(dBµV)) (dB)	dB/m	(dB	5)	(dBµV/m)	(dBµV/	/m)	(dB)			
			Low Ch	annel (240	2 MHz)(GFS	K)Abo	ve 1	G			
4802.04	64.62	5.21	35.59	44.3	30	61.12	74.0	0	-12.88	Pk	Vertical	
4802.04	43.91	5.21	35.59	44.3	30	40.41	54.0	0	-13.59	AV	Vertical	
7206.65	63.92	6.48	36.27	44.6	60	62.07	74.0	0	-11.93	Pk	Vertical	
7206.65	43.86	6.48	36.27	44.6	60	42.01	54.0	0	-11.99	AV	Vertical	
4804.93	64.61	5.21	35.55	44.3	80	61.07	74.0	0	-12.93	Pk	Horizontal	
4804.93	43.63	5.21	35.55	44.30		40.09	54.00		-13.91	AV	Horizontal	
7206.13	63.89	6.48	36.27	44.52		62.12	74.00		-11.88	Pk	Horizontal	
7206.13	43.91	6.48	36.27	44.5	52	42.14	54.0	0	-11.86	AV	Horizontal	
Mid Channel (2440 MHz)(GFSK)Above 1G												
4880.846	64.41	5.21	35.66	44.2	20	61.08	74.0	0	-12.92	Pk	Vertical	
4880.846	43.83	5.21	35.66	44.2	20	40.50	54.0	0	-13.50	AV	Vertical	
7320.445	62.42	7.10	36.50	44.4	13	61.59	74.0	0	-12.41	Pk	Vertical	
7320.445	43.67	7.10	36.50	44.4	13	42.84	54.0	0	-11.16	AV	Vertical	
4880.563	62.05	5.21	35.66	44.2	20	58.72	74.0	0	-15.28	Pk	Horizontal	
4880.563	43.35	5.21	35.66	44.2	20	40.02	54.0	0	-13.98	AV	Horizontal	
7320.870	61.98	7.10	36.50	44.4	13	61.15	74.0	0	-12.85	Pk	Horizontal	
7320.870	43.03	7.10	36.50	44.4	-	42.20	54.0	-	-11.80	AV	Horizontal	
			High Ch	annel (248	0 MHz)(GFS	K) Abo	ove ´	1G	[]		
4960.455	63.22	5.21	35.52	44.2	21	59.74	74.0	0	-14.26	Pk	Vertical	
4960.455	43.07	5.21	35.52	44.2	21	39.59	54.0	0	-14.41	AV	Vertical	
7440.577	63.92	7.10	36.53	44.6	60	62.95	74.0	0	-11.05	Pk	Vertical	
7440.577	43.92	7.10	36.53	44.6	60	42.95	54.0	0	-11.05	AV	Vertical	
4960.549	61.59	5.21	35.52	44.2	21	58.11	74.0	0	-15.89	Pk	Horizontal	
4960.549	43.93	5.21	35.52	44.2	21	40.45	54.0	0	-13.55	AV	Horizontal	
7440.887	63.36	7.10	36.53	44.6	60	62.39	74.0	0	-11.61	Pk	Horizontal	
7440.887	43.64	7.10	36.53	44.6	60	42.67	54.0	0	-11.33	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





Spurious I EUT:	IT: Knowled M600D Daylight LED Light				Model No.:				M600D,M600D-CL(Controller)			
Temperature:	20 ℃				Relative Humidity: 48			48%				
Test Mode:	st Mode: Mode2/ Mode4			Т	est	By:		Mary	/ Hu			
Frequency	Meter Reading	Cable Loss	Antenna Factor	Prear Facto		Emission Level	Lim	nits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ'	V/m)	(dB)	Туре		
1Mbps(GFSK)												
2310.00	64.27	2.97	27.80	43.8	30	51.24	74	4	-22.76	Pk	Horizontal	
2310.00	39.64	2.97	27.80	43.8	30	26.61	54	4	-27.39	AV	Horizontal	
2310.00	64.44	2.97	27.80	43.8	80	51.41	74	4	-22.59	Pk	Vertical	
2310.00	43.77	2.97	27.80	43.8	30	30.74	54	4	-23.26	AV	Vertical	
2390.00	64.58	3.14	27.21	43.8	30	51.13	74	4	-22.87	Pk	Vertical	
2390.00	43.54	3.14	27.21	43.8	30	30.09	54	4	-23.91	AV	Vertical	
2390.00	62.60	3.14	27.21	43.8	30	49.15	74	4	-24.85	Pk	Horizontal	
2390.00	43.32	3.14	27.21	43.8	30	29.87	54	4	-24.13	AV	Horizontal	
2483.50	64.13	3.58	27.70	44.0	00	51.41	74	4	-22.59	Pk	Vertical	
2483.50	43.52	3.58	27.70	44.0	00	30.80	54	4	-23.20	AV	Vertical	
2483.50	63.01	3.58	27.70	44.0	00	50.29	74	4	-23.71	Pk	Horizontal	
2483.50	43.40	3.58	27.70	44.0	00	30.68	54	4	-23.32	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





EUT: Knowled M600D Daylight LED Light				Model No.:			M600D,M600D-CL(Controller)				
emperature:	mperature: 20 °C				Relative Humidity:			48%			
est Mode: Mode2/ Mode4			-	Test I	Зу:		Mary	Hu			
Frequency	Reading Level	Cable Loss	Antenna Factor		amp ctor	Emission Level	Lir	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)		(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
3260	63.61	4.04	29.57	44.70		52.52	74		-21.48	Pk	Vertical
3260	43.05	4.04	29.57	44.70		31.96	54		-22.04	AV	Vertical
3260	64.76	4.04	29.57	44	.70	53.67	74		-20.33	Pk	Horizontal
3260	43.31	4.04	29.57	44	.70	32.22	5	54	-21.78	AV	Horizontal
3332	61.90	4.26	29.87	44	.40	51.63	7	' 4	-22.37	Pk	Vertical
3332	43.41	4.26	29.87	44	.40	33.14	5	54	-20.86	AV	Vertical
3332	61.97	4.26	29.87	44	.40	51.70	7	' 4	-22.30	Pk	Horizontal
3332	43.75	4.26	29.87	44	.40	33.48	5	54	-20.52	AV	Horizontal
17797	48.72	10.99	43.95	43	.50	60.16	7	' 4	-13.84	Pk	Vertical
17797	34.06	10.99	43.95	43	.50	45.50	5	54	-8.50	AV	Vertical
17788	48.34	11.81	43.69	44	.60	59.24	7	' 4	-14.76	Pk	Horizontal
17788	34.16	11.81	43.69	44	.60	45.06	5	54	-8.94	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:	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)
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 \ge OBW if possible; otherwise, set RBW to the largest available value. Set VBW \ge 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 \le 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:	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)
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:	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)
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.
- 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:	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)
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:	Knowled M600D Daylight LED Light	Model No.:	M600D,M600D-CL(Controller)
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: 0.54 dBi). It comply with the standard requirement.



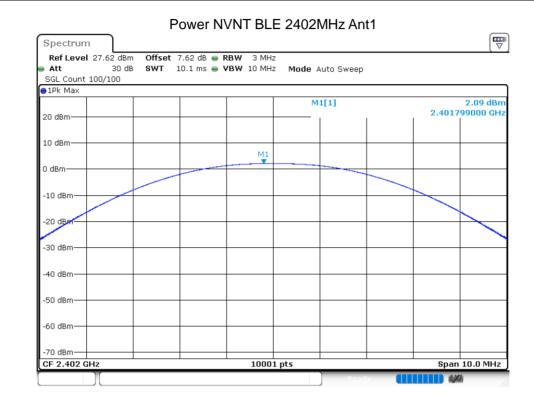


8 TEST RESULTS

8.1 1M

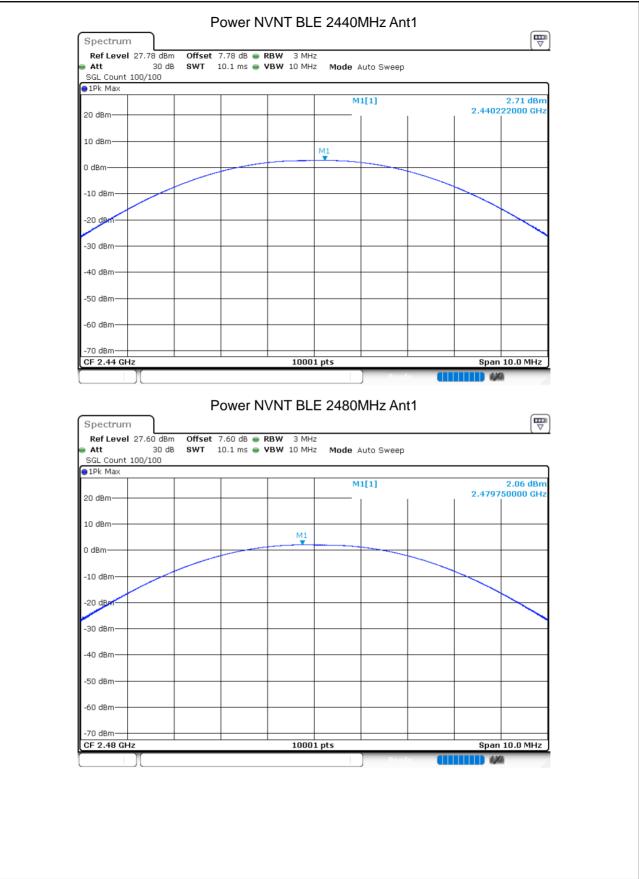
8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition NVNT NVNT NVNT	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant 1	2.09	30	Pass
NVNT	BLE	2440	Ant 1	2.71	30	Pass
NVNT	BLE	2480	Ant 1	2.06	30	Pass



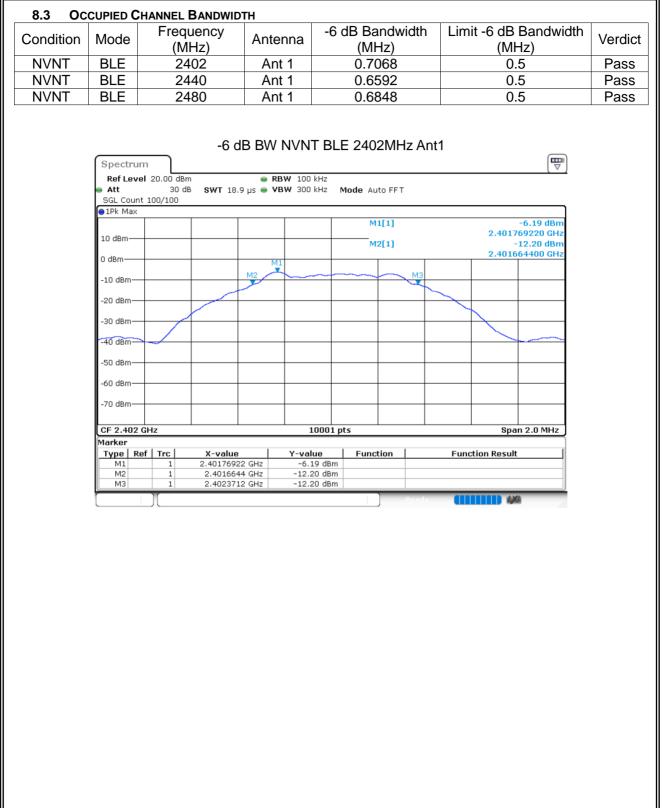






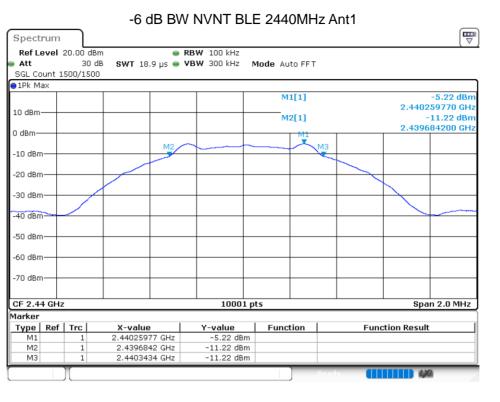




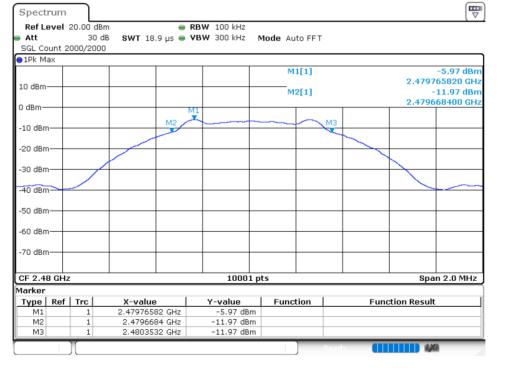






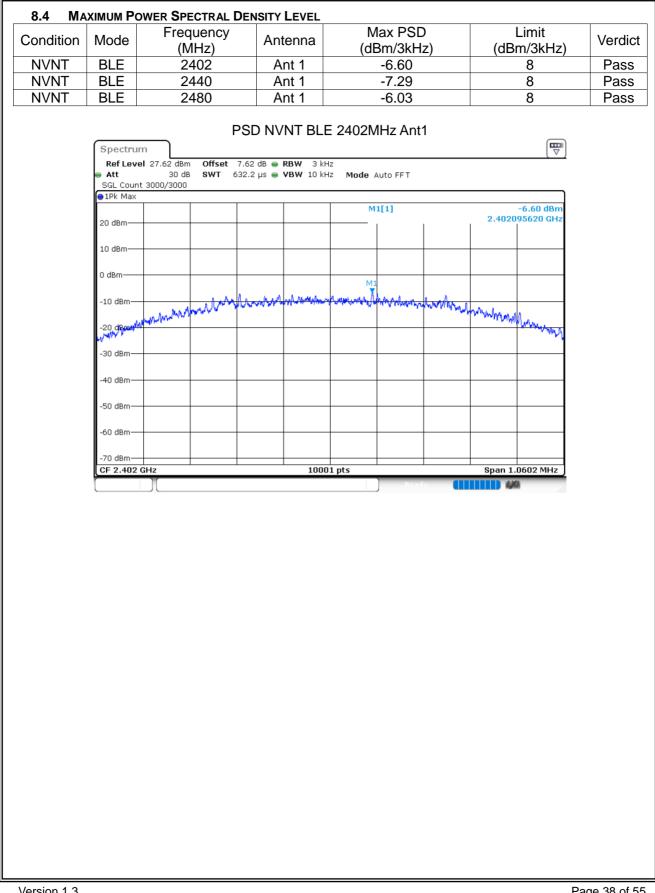






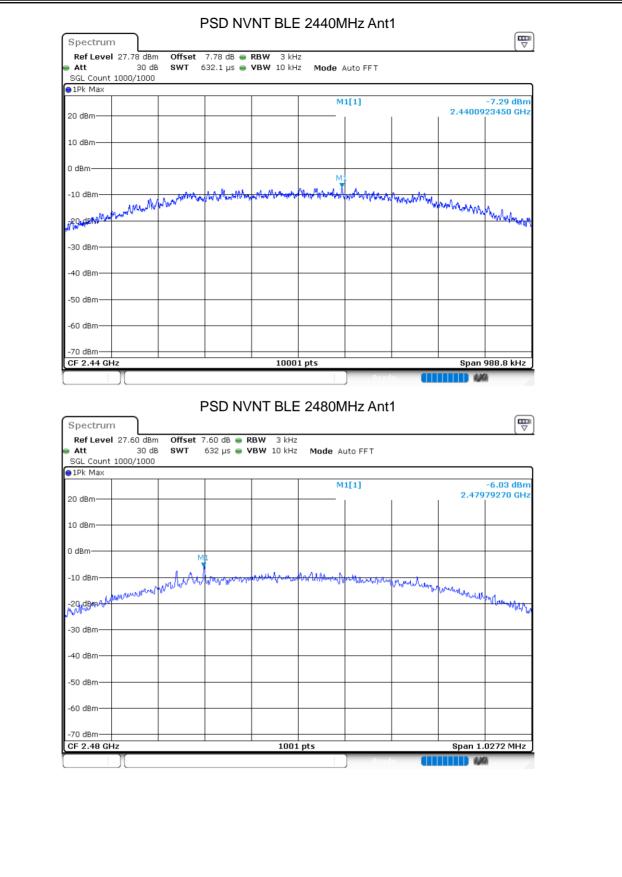






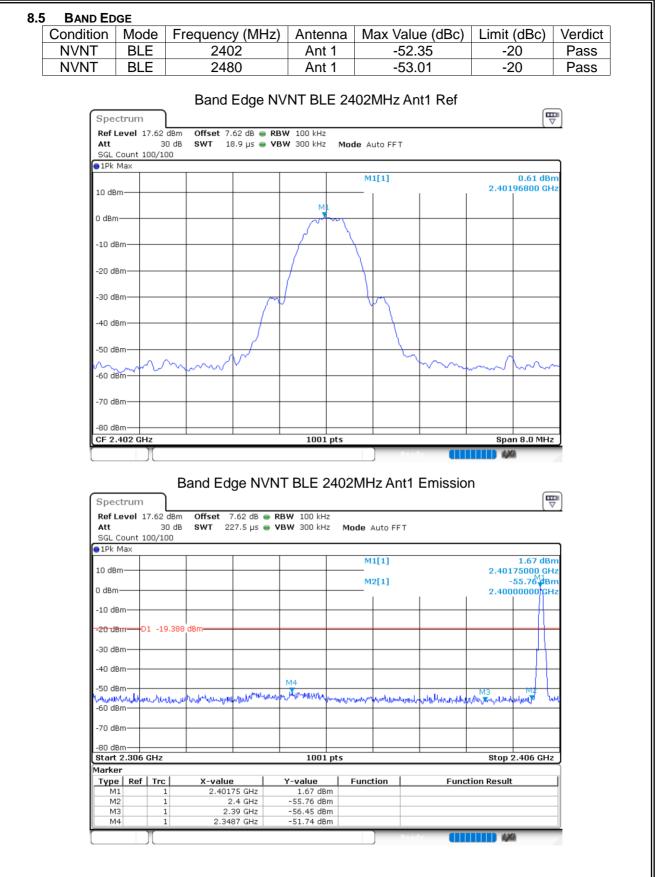








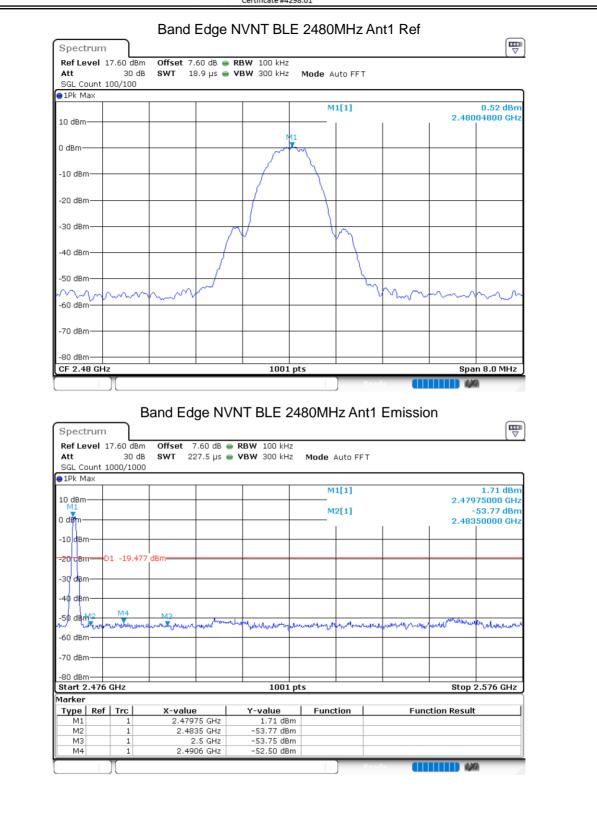






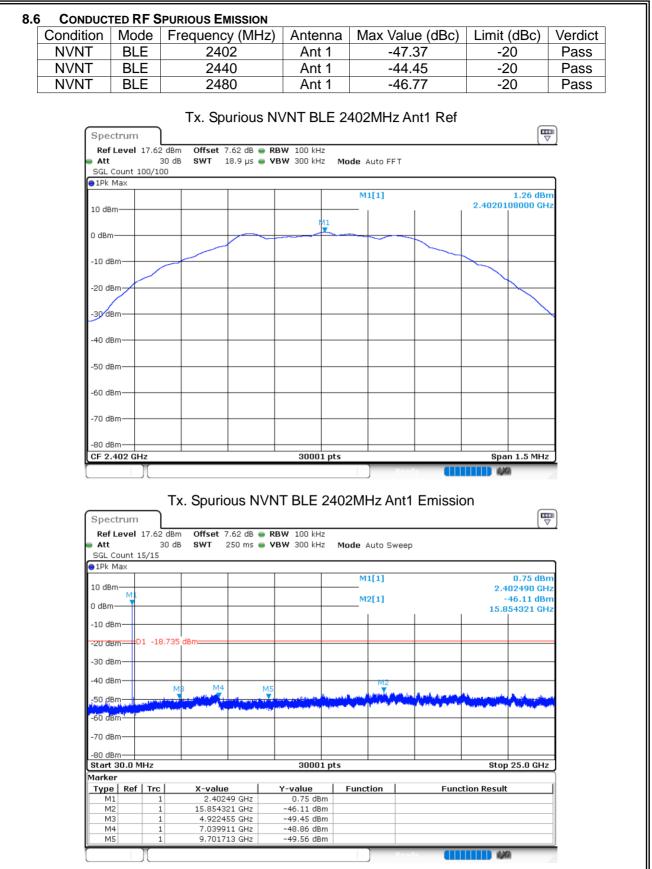






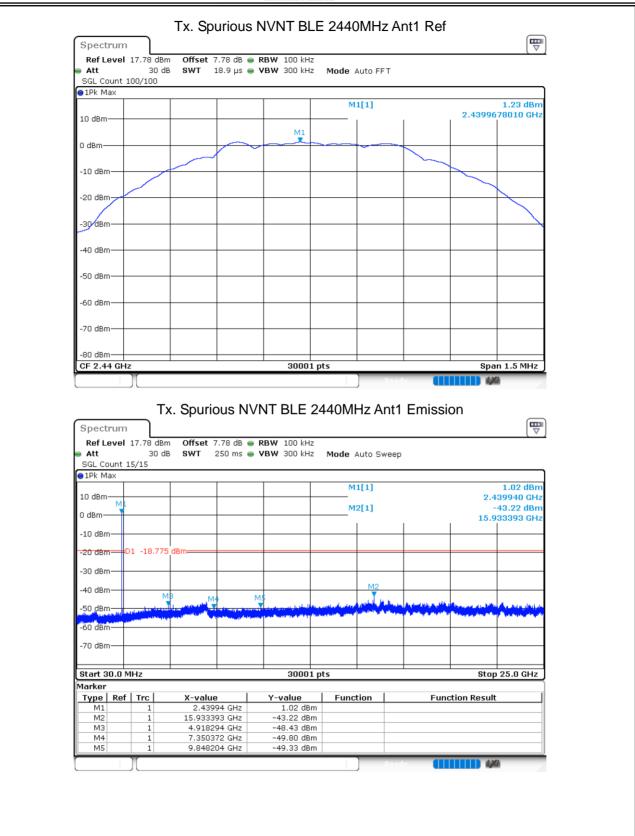






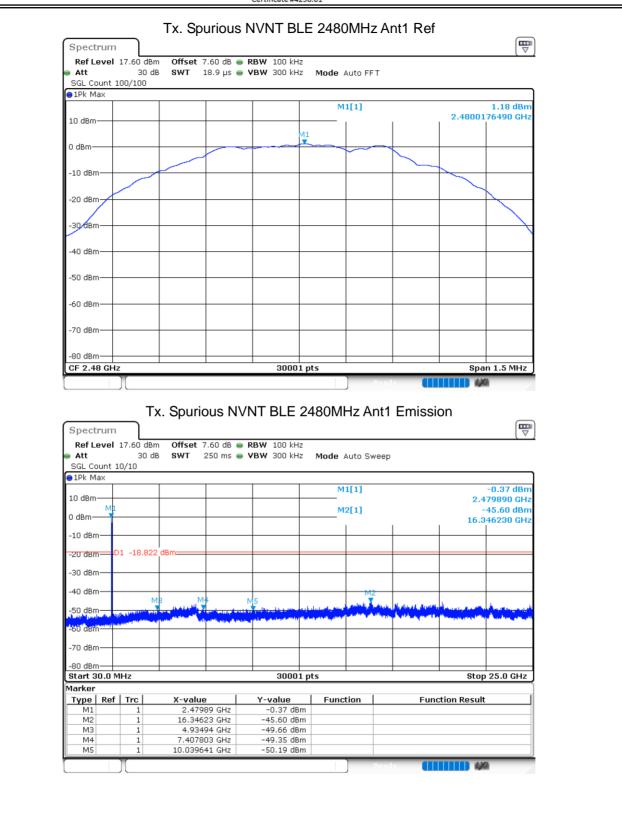
















			Certificate	e #4298.01						
2M										
8.7 M		CONDUCTED OUTPUT	Power							
Condition			Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	BLE	2402	Ant 1	1.95	30	Pass				
NVNT	BLE	2440	Ant 1	2.68	30	Pass				
NVNT	BLE	2480	Ant 1	2.07	30	Pass				
		Pov	ver NVNT E	BLE 2402MHz Ant1						
		Spectrum (The sector of the se								
	👄 Att	30 dB SWT 10.1		MHZ Mode Auto Sweep						
	SGL Count 100/100 IPk Max									
				M1[1]	1.95 dBm 2.401491100 GHz					
	20 dBm	1			2.401491100 002					
	10 dBm	ı —								
	0 dBm		M1							
	0 dBm-									
	-10 dBr	m								
	-20 dBr	n l								
	-30 dBr	n								
	-40 dBr	n								
	-50 dBr	n								
	-50 051									
	-60 dBr	n								
	-70 dBr	n								
	CF 2.4	02 GHz	10	0001 pts	Span 10.0 MHz					
				Ready						

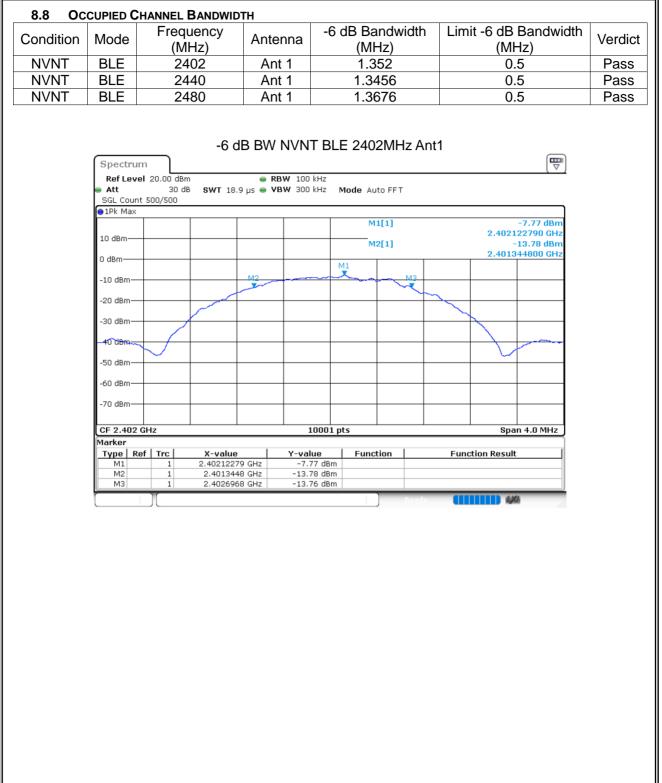






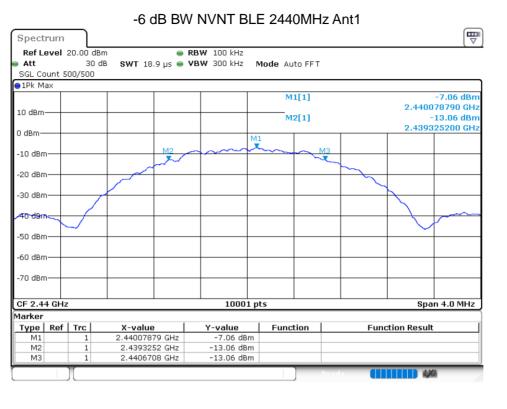




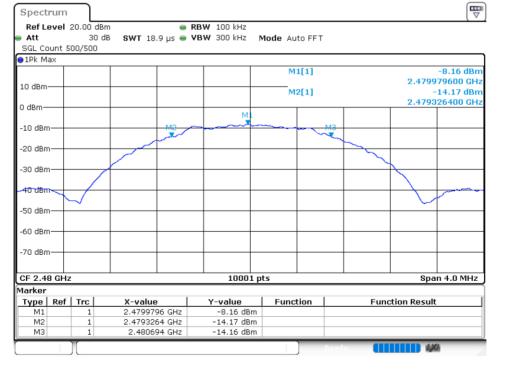






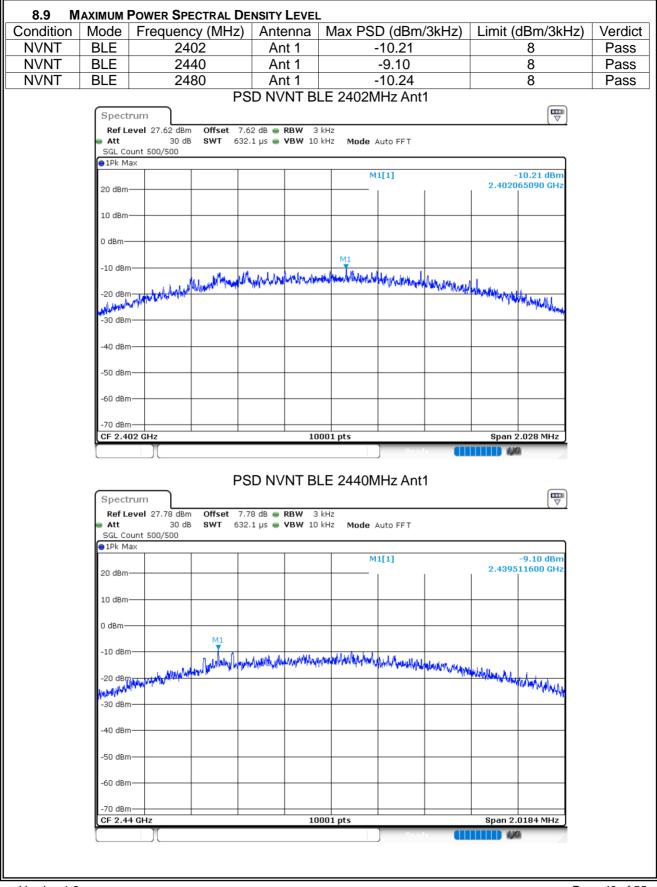












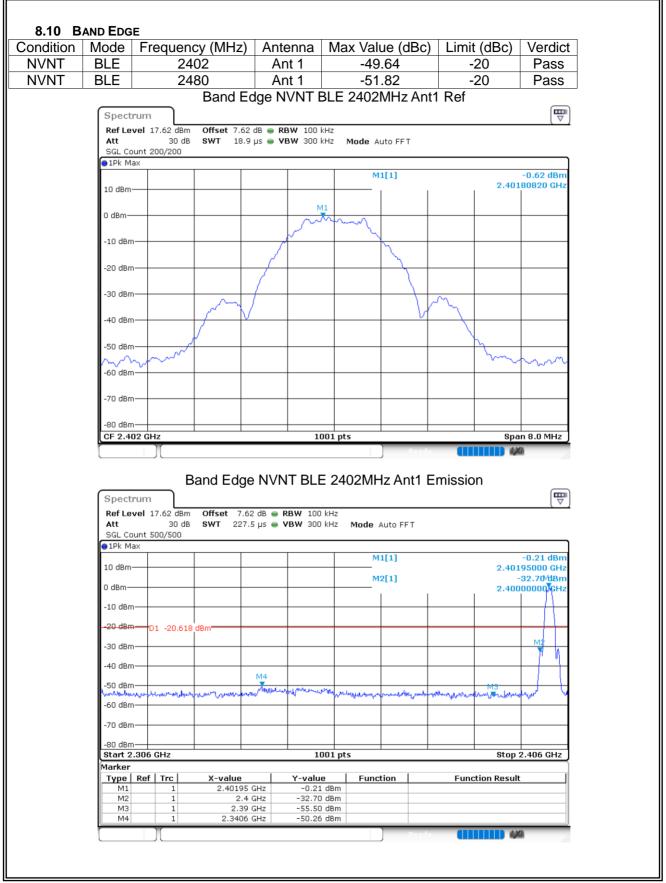




Ref Level 27.60 dBn Att 30 di GGL Count 500/500						
	o o ooc po	VBW 10 kHz	Mode Auto FFT			
1Pk Max						
			M1[1]			10.24 dBm 04210 GHz
0 dBm				1		
0 dBm						
dBm						
LO dBm		M1				
20 dBm		frat my by released	h Mill Marshely and how on	WA HAR WITH ALL IN		
20 dBm	WWWWWWWWWWW				Martin Martin Land	t
with the start of the start of the					1.00	man land
30 dBm						
10 dBm						
i0 dBm						
i0 dBm						
o asm						
70 dBm						
		10001		1	Span 2.	



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●1Pk Max								0.01.40
10 dBm				M1	[1]		2.480	0.21 dBm 050350 GHz
				M1				
0 dBm			m	W.				
-10 dBm			A		·/			
-20 dBm		ſ			<u>\</u>			
00 d0								
-30 dBm	\sim					m		
-40 dBm		~			V			
-50 dBm-	$ \rightarrow $						h	
-60 dBm							- my	m
SO UDIT								
-70 dBm								
-80 dBm							0	
CF 2.48 GHz Spectrum Ref Level 17.60 dt Att 30	m Offset 7	7.60 dB 👄	1001 ; NT BLE 24 RBW 100 kHz VBW 300 kHz	480MH:		Emissic	· · · · ·	an 8.0 MHz
CF 2.48 GHz Spectrum Ref Level 17.60 dt Att 30 SGL Count 100/100	m Offset 7	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH:		Emissic	· · · · ·	a
CF 2.48 GHz Spectrum Ref Level 17.60 dt Att 30	m Offset 7	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH:	uto FFT	Emissic	'n	0 (₩ ▼ -0.12 dBm
CF 2.48 GHz Spectrum Ref Level 17.60 df Att 30 SGL Count 100/100 9 1Pk Max	m Offset 7	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH: Mode A	uto FFT	Emissic	2.475	-0.12 dBm 755000 GHz -55.62 dBm
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 • IPk Max 10 dBm M1	m Offset 7	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH: Mode Au	uto FFT	Emissic	2.475	-0.12 dBm 975000 GHz
CF 2.48 GHz Spectrum Ref Level 17.60 dl Att 30 SGL Count 100/100 • IPk Max 10 dBm M1 0 dEm	Sm Offset 7 dB SWT 22	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH: Mode Au	uto FFT	Emissic	2.475	-0.12 dBm 755000 GHz -55.62 dBm
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 ● 1Pk Max 10 dBm -10 dBm	Sm Offset 7 dB SWT 22	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH: Mode Au	uto FFT	Emissic	2.475	-0.12 dBm 755000 GHz -55.62 dBm
CF 2.48 GHz Spectrum Ref Level 17.60 df Att 30 SGL Count 100/100 9 1Pk Max 10 dBm	Sm Offset 7 dB SWT 22	7.60 dB 👄	NT BLE 24 RBW 100 kHz	480MH: Mode Au	uto FFT	Emissic	2.475	-0.12 dBm 755000 GHz -55.62 dBm
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 ●1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -19.7 -30 dBm -50 dBm-2	85 dBm- M4	27.5 μs 27.5 μs	NT BLE 24	480MH: Mode At M1 	uto FFT [1] [1]		2.479 2.483	-0.12 dBm 755000 GHz 55.62 dBm \$50000 GHz
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 ●1Pk Max 10 dBm	8m Offset 7 dB SWT 22	27.5 μs 27.5 μs	NT BLE 24	480MH: Mode At M1 	uto FFT [1] [1]		2.479 2.483	-0.12 dBm 755000 GHz 55.62 dBm \$50000 GHz
CF 2.48 CHz Spectrum Ref Level 17.60 dt Att 30 SGL Count 100/100 9 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -10 dBm -50 d	85 dBm- M4	27.5 μs 27.5 μs	NT BLE 24	480MH: Mode At M1 	uto FFT [1] [1]		2.479 2.483	-0.12 dBm 755000 GHz 55.62 dBm \$50000 GHz
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm	85 dBm- M4	27.5 μs 27.5 μs	NT BLE 24	480MH: Mode Au M1 	uto FFT [1] [1]		2.479 2.483	-0.12 dBm 975000 GHz 555.62 dBm 350000 GHz
CF 2.48 CHz Spectrum Ref Level 17.60 dt Att 30 SGL Count 100/100 9 1Pk Max 10 dBm -10 dBm -20 dBm -10 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	85 dBm- M4	27.5 μs 27.5 μs	NT BLE 24	480MH: Mode Au M1 	uto FFT [1] [1]		2.479 2.483	-0.12 dBm 755000 GHz 55.62 dBm \$50000 GHz
CF 2.48 GHz Spectrum Ref Level 17.60 di Att 30 SGL Count 100/100 •1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm	85 dBm M4 M4 X-value	7.60 dB 27.5 μs 	NT BLE 24	480MH: Mode A(uto FF T [1] [1]		2.479 2.483	-0.12 dBm 775000 GHz -55.62 dBm 55000 GHz
CF 2.48 GHz Ref Level 17.60 df Att 30 SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm -	Offset 7 dB SWT 22 set	7.60 dB • 27.5 µs •	NT BLE 24	480MH: Mode Au M1 M2 (fullout, suble points Function Function	uto FF T [1] [1]		2.479 2.480	-0.12 dBm 775000 GHz -55.62 dBm 55000 GHz





