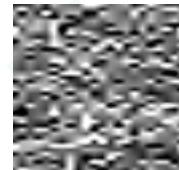




FCC Test Report

Application No.:	DNT2505140270R5060-06541
Applicant:	DGL Group LTD.
Address of Applicant:	2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States
EUT Description:	LED WIRELESS SPEAKER
Model No.:	POP-WRLSPKR-WHT, POP-WRLSPKR, POP-WRLSPKR-XXX
FCC ID:	2AANZWRLSPKR
Power Supply:	Input DC 5V & DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	HYPE
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C ANSI C63.10: 2013
Date of Receipt:	2025/05/17
Date of Test:	2025/05/18 to 2025/06/04
Date of Issue:	2025/06/05
Test Result:	PASS

Prepared By: Wayne Lin (Testing Engineer)



Reviewed By: Tengfei Chen (Project Engineer)

Approved By: Yiwei Chen (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang'an Town, Dongguan City, Guangdong P.R.China
Web: www.dn-testing.com Tel: +86-769-88087383 E-mail: service@dn-testing.com



Report No.: DNT2505140270R5060-06541

Date: June 5, 2025

Page: 2 / 54

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	Jun 5, 2025	Valid	Original Report

Dongguan DN Testing Co., Ltd.

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E-mail: service@dn-testing.com



1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 3.1	PASS
Duty Cycle	--	--	Clause 3.2	PASS
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10: 2013	Clause 3.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10: 2013	Clause 3.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10: 2013	Clause 3.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.7	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10: 2013	Clause 3.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10: 2013	Clause 3.9	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10: 2013	Clause 3.10	PASS

Note:

1. "N/A" denotes test is not applicable in this test report.



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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xingfa Road, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

2.2 General Description of EUT

Manufacturer:	DGL Group LTD.
Address of Manufacturer:	2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States
EUT Description:	LED WIRELESS SPEAKER
Test Model No.:	POP-WRLSPKR-WHT
Additional Model(s):	POP-WRLSPKR, POP-WRLSPKR-XXX
Chip Type:	AC6965E
Serial Number	PR2505140270R5060
Power Supply	Input DC 5V & DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	HYPE
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module, <input type="checkbox"/> Mobile Device
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by applicant -0.68dBi
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant 0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);

Remark:

*Only the color of the product is different, everything else is completely consistent.

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.3 Channel List

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

2.4 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.5 Power Setting of Test Software

Software Name	FCC_assist_1.0.2.2		
Frequency(MHz)	2402	2440	2480
BLE 1M Setting	default	default	default
BLE 2M Setting	default	default	default

2.6 Description of Support Units

The EUT has been tested independent unit.



2.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

- FCC, USA

Designation Number: CN1348

- A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

- Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

2.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	DTS Bandwidth	±0.0196%
2	Maximum Conducted Output Power	±0.686 dB
3	Maximum Power Spectral Density Level	±0.743 dB
4	Band-edge Compliance	±1.328 dB
5	Unwanted Emissions In Non-restricted Freq Bands	9KHz-1GHz:±0.746dB 1GHz-26GHz: ±1.328dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



2.9 Equipment List

For Connect EUT Antenna Terminal Test					
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2024-10-23	2025-10-22
Signal Generator	Keysight	N5182B	MY57300617	2024-10-23	2025-10-22
Power supply	Keysight	E3640A	ZB2022656	2024-10-23	2025-10-22
Radio Communication Tester	R&S	CMW500	105082	2024-10-23	2025-10-22
Spectrum Analyzer	Agilent	N9010A	MY52220200	2024-10-23	2025-10-22
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2024-10-23	2025-10-22
Pulse Power Sensor	Anritsu	MA2411B	1911397	2024-10-23	2025-10-22
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2024-10-23	2025-10-22

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2024-10-23	2025-10-22
LISN	R&S	ENV216	102874	2024-10-23	2025-10-22
ISN	R&S	ENY81-CA6	1309.8590.03	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	Cable-CE TS01	/	2024-10-23	2025-10-22

Test Equipment for Radiated Emission(30MHz-1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2024-10-23	2025-10-22
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RE Cable-TS01	NA	2024-10-23	2025-10-22
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2022-11-28	2025-11-27



Pre-amplifier	Schwarzbeck	BBV9743B	00423	2024-10-23	2025-10-22
Attenuator 1	Shanghai Huaxiang	TS2-6-18-A	22061803	2025-5-6	2026-5-5
Attenuator 2	Shanghai Huaxiang	TS2-6-6-A	230927163	2025-5-6	2026-5-5

Test Equipment for Radiated Emission(Above 1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	RE Cable-TS02	NA	2024-10-23	2025-10-22
Horn Antenna	ETS-LINDGREN	3117	00252567	2022-11-28	2025-11-27
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2022-11-28	2025-11-27
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2024-10-23	2025-10-22
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2024-10-23	2025-10-22

2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	Adapter	GaoFanDe	GFDQ3-0502000U	NA
2	Computer	acer	N22C8	EMC notebook01



3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.68dBi.	



3.2 Duty Cycle

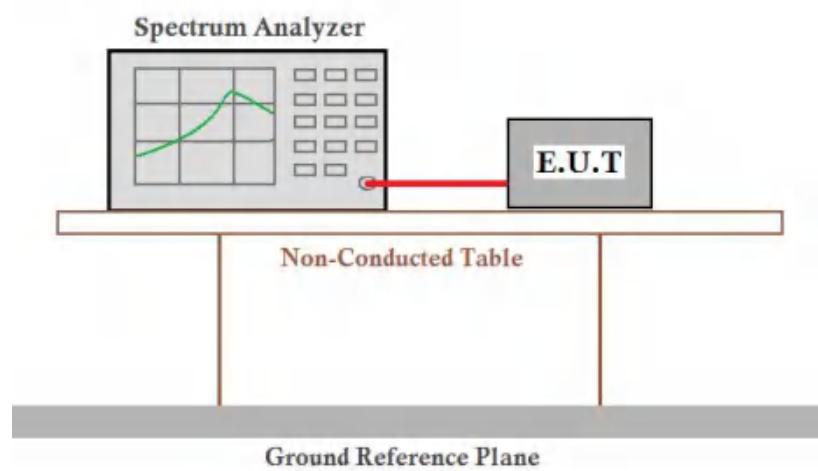
Refer to section : **Appendix A**

Note:

- 1.If duty cycle $< 98\%$, the conducted average output power and average power spectral density should be add duty factor.
- 2.If duty cycle $\geq 98\%$, the EUT is consider to be transmitting continuously, the conducted average output power and average power spectral density no need to add duty factor (consider to be zero).
- 3.The conducted peak output power and peak power spectral density no need to consider duty factor.
- 4.The on-time time is transmission duration(T).



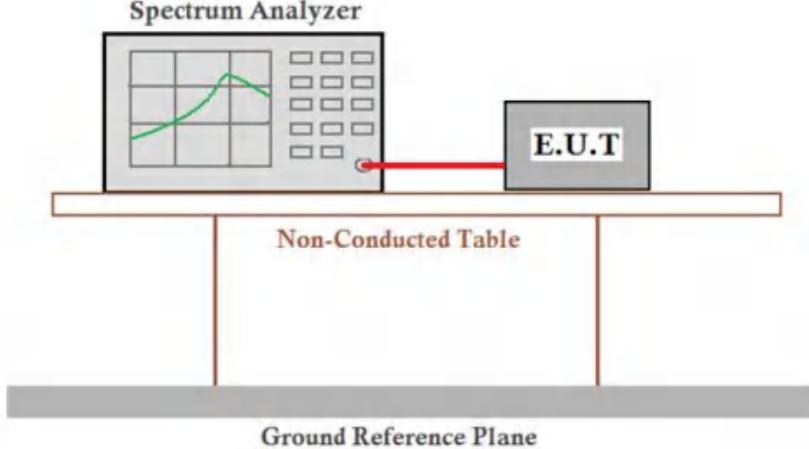
3.3 DTS (6 dB) Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix B**



3.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2013 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix C**



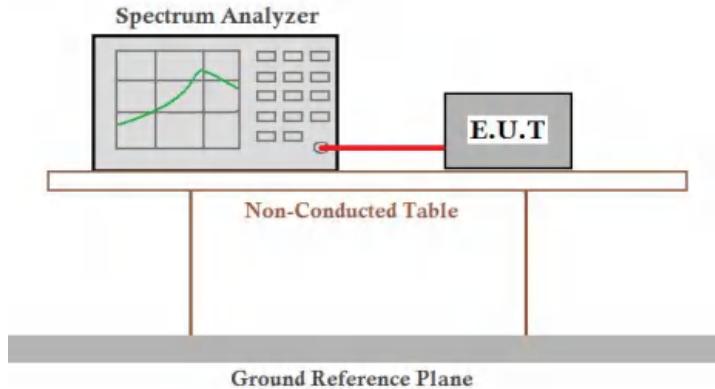
3.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK
Limit:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass

The detailed test data see: **Appendix D**



3.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix E**



3.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the worst case of GFSK;
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix F**



3.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC \geq 0.98) \geq 1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

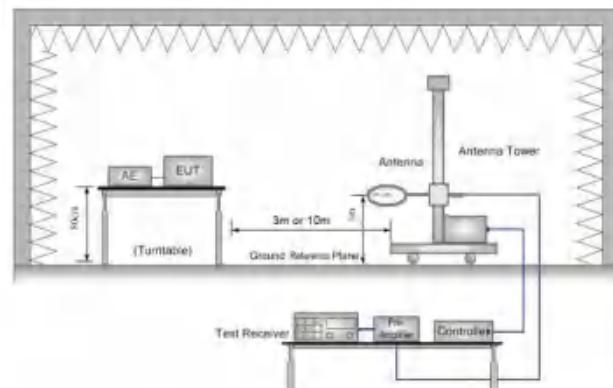


Figure 1. Below 30MHz

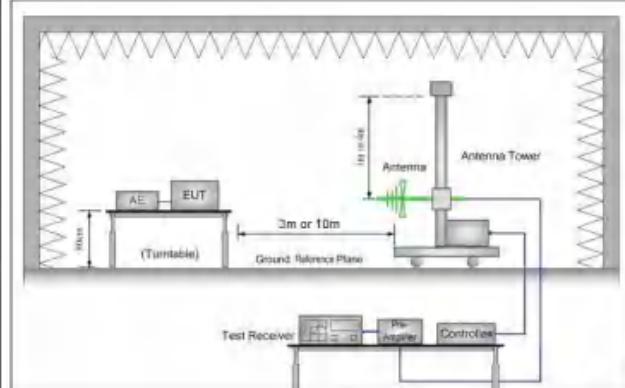


Figure 2. 30MHz to 1GHz

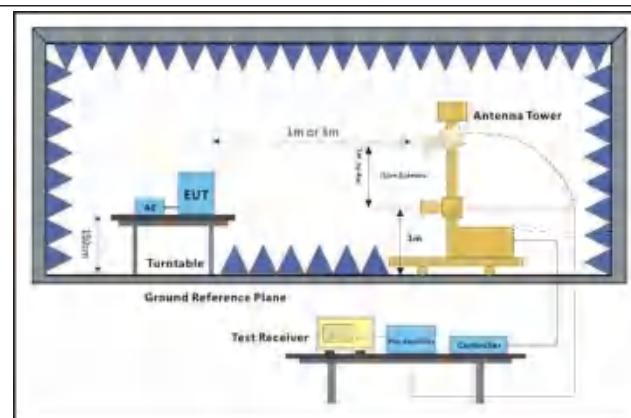


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang'an Town, Dongguan City, Guangdong P.R.China

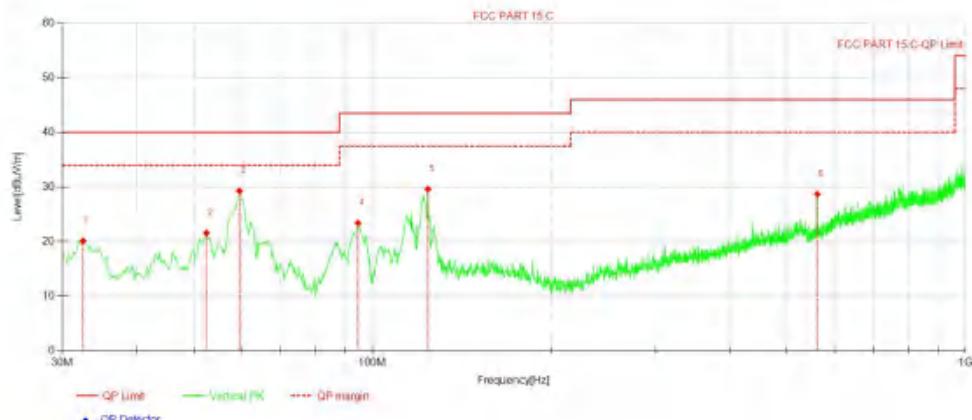
Web: www.dn-testing.com

Tel: +86-769-88087383

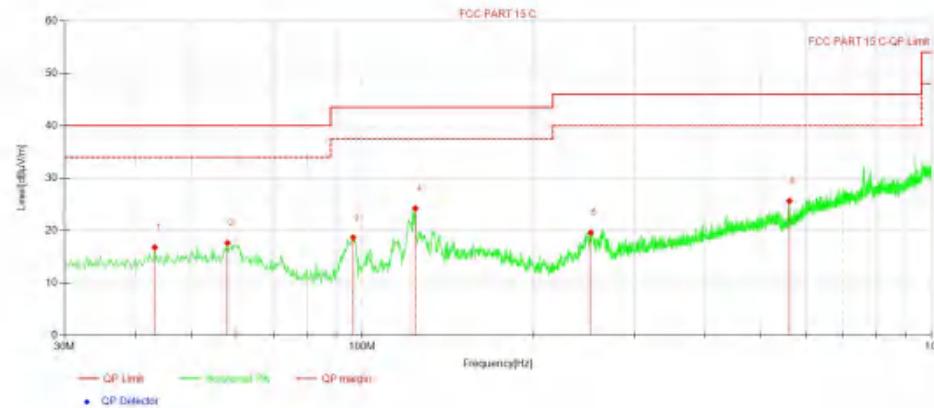
E-mail: service@dn-testing.com



Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charging+Transmitting mode. Through Pre-scan, find the worst case of GFSK, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

Test data**For 30-1000MHz**

NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	32.52	29.81	-9.65	20.16	40.00	19.84	100	281	PK	Vertical
2	52.51	29.75	-8.13	21.62	40.00	18.38	100	2	PK	Vertical
3	59.69	38.02	-8.73	29.29	40.00	10.71	100	244	PK	Vertical
4	94.61	36.83	-13.41	23.42	43.50	20.08	100	360	PK	Vertical
5	124.11	39.55	-9.94	29.61	43.50	13.89	100	359	PK	Vertical
6	562.64	30.23	-1.55	28.68	46.00	17.32	100	162	PK	Vertical

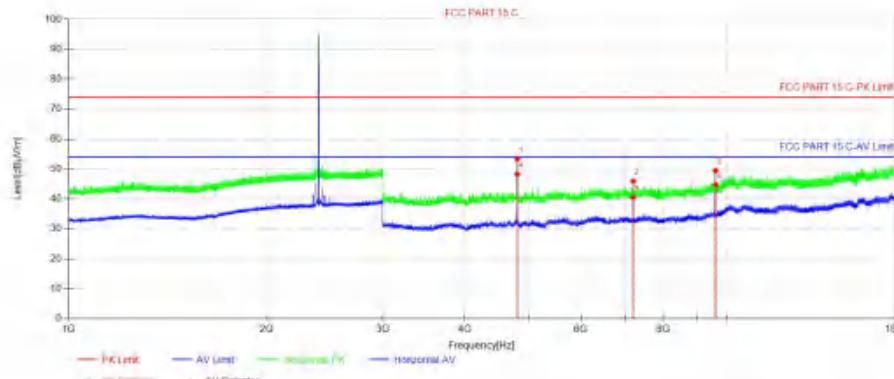


NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	43.19	25.19	-8.39	16.80	40.00	23.20	200	58	PK	Horizontal
2	57.94	26.19	-8.55	17.64	40.00	22.36	200	179	PK	Horizontal
3	96.36	31.85	-13.17	18.68	43.50	24.82	200	353	PK	Horizontal
4	123.91	34.22	-9.96	24.26	43.50	19.24	100	351	PK	Horizontal
5	251.79	28.50	-8.89	19.61	46.00	26.39	100	60	PK	Horizontal
6	562.64	27.21	-1.55	25.66	46.00	20.34	100	78	PK	Horizontal

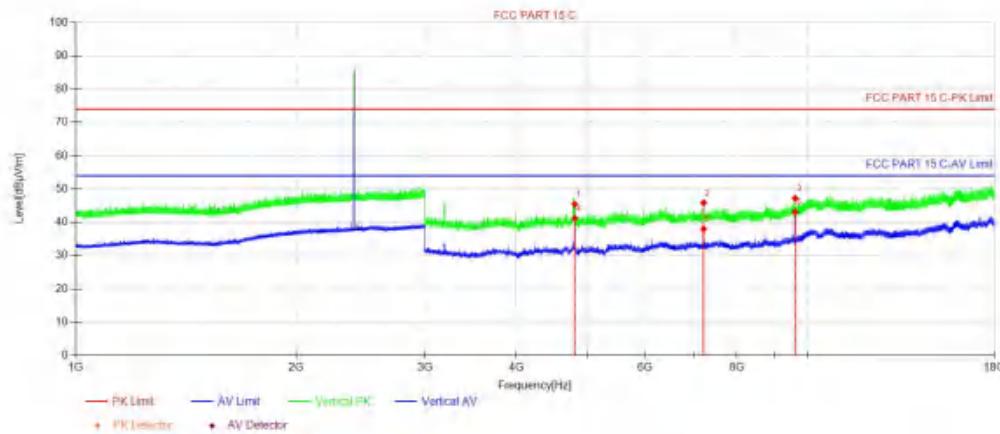


For above 1GHz

BLE 1M 2402MHz



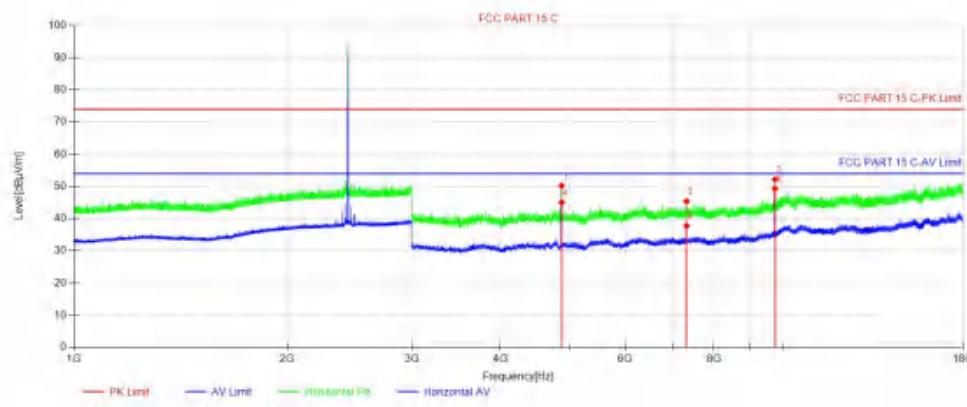
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4803.84	57.93	-4.61	53.32	74.00	20.68	150	74	PK	Horizontal
2	7206.21	47.72	-1.76	45.96	74.00	28.04	150	270	PK	Horizontal
3	9607.83	48.61	0.87	49.48	74.00	24.52	150	307	PK	Horizontal
4	4804.59	52.94	-4.61	48.33	54.00	5.67	150	74	AV	Horizontal
5	7206.96	42.26	-1.76	40.50	54.00	13.50	150	326	AV	Horizontal
6	9608.58	43.93	0.88	44.81	54.00	9.19	150	307	AV	Horizontal



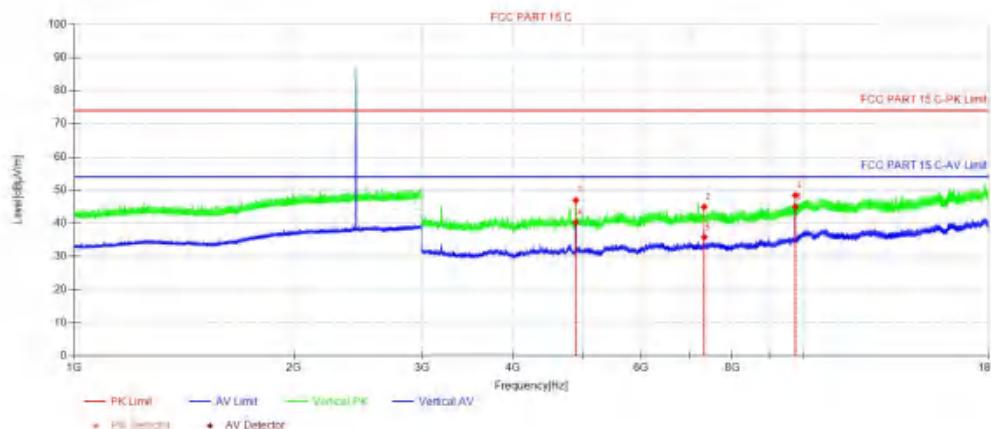
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4804.59	50.12	-4.61	45.51	74.00	28.49	150	270	PK	Vertical
2	7206.21	47.66	-1.76	45.90	74.00	28.10	150	91	PK	Vertical
3	9608.58	46.36	0.88	47.24	74.00	26.76	150	325	PK	Vertical
4	4804.59	45.82	-4.61	41.21	54.00	12.79	150	146	AV	Vertical
5	7206.21	39.82	-1.76	38.06	54.00	15.94	150	73	AV	Vertical
6	9608.58	42.26	0.88	43.14	54.00	10.86	150	325	AV	Vertical



BLE 1M 2440MHz



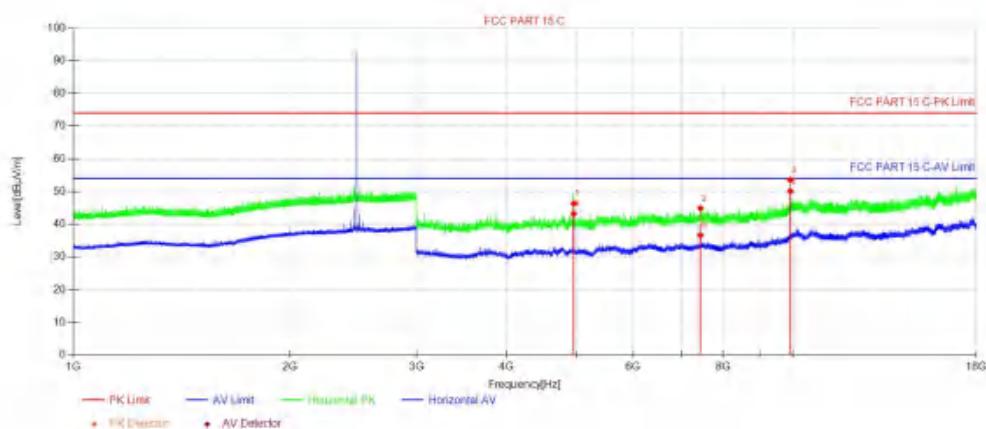
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4879.59	54.97	-4.70	50.27	74.00	23.73	150	71	PK	Horizontal
2	7320.22	46.92	-1.49	45.43	74.00	28.57	150	323	PK	Horizontal
3	9760.09	50.62	1.62	52.24	74.00	21.76	150	307	PK	Horizontal
4	4880.34	49.76	-4.71	45.05	54.00	8.95	150	71	AV	Horizontal
5	7320.22	39.26	-1.49	37.77	54.00	16.23	150	268	AV	Horizontal
6	9760.84	47.64	1.63	49.27	54.00	4.73	150	307	AV	Horizontal



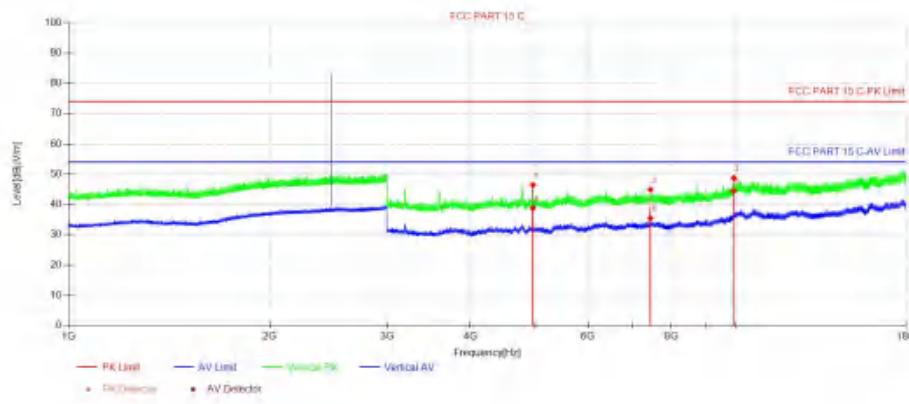
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4879.59	51.69	-4.70	46.99	74.00	27.01	150	71	PK	Vertical
2	7320.22	46.46	-1.49	44.97	74.00	29.03	150	90	PK	Vertical
3	9760.09	46.87	1.62	48.49	74.00	25.51	150	19	PK	Vertical
4	4880.34	45.01	-4.71	40.30	54.00	13.70	150	71	AV	Vertical
5	7320.22	37.32	-1.49	35.83	54.00	18.17	150	124	AV	Vertical
6	9760.84	43.37	1.63	45.00	54.00	9.00	150	318	AV	Vertical



BLE 1M 2480MHz



NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4960.60	51.20	-4.86	46.34	74.00	27.66	150	214	PK	Horizontal
2	7440.22	46.25	-1.34	44.91	74.00	29.09	150	325	PK	Horizontal
3	9919.85	51.29	2.26	53.55	74.00	20.45	150	325	PK	Horizontal
4	4960.60	48.08	-4.86	43.22	54.00	10.78	150	55	AV	Horizontal
5	7440.22	37.97	-1.34	36.63	54.00	17.37	150	325	AV	Horizontal
6	9920.60	47.82	2.27	50.09	54.00	3.91	150	325	AV	Horizontal



NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	4960.60	51.32	-4.86	46.46	74.00	27.54	150	266	PK	Vertical
2	7440.22	46.25	-1.34	44.91	74.00	29.09	150	92	PK	Vertical
3	9920.60	46.54	2.27	48.81	74.00	25.19	150	301	PK	Vertical
4	4960.60	43.61	-4.86	38.75	54.00	15.25	150	145	AV	Vertical
5	7440.22	36.86	-1.34	35.52	54.00	18.48	150	74	AV	Vertical
6	9920.60	42.29	2.27	44.56	54.00	9.44	150	284	AV	Vertical



Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

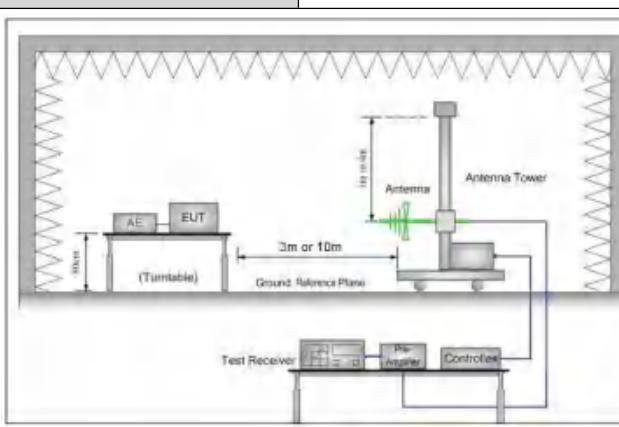
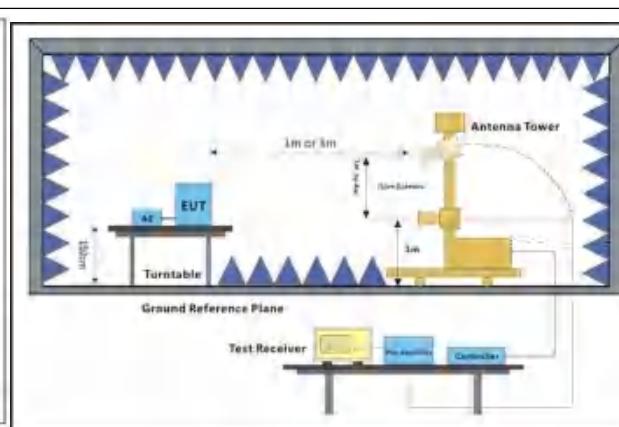
Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.

4. All channels had been pre-test,only the worst case was reported.

3.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)					
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak			
	88MHz-216MHz	43.5	Quasi-peak			
	216MHz-960MHz	46.0	Quasi-peak			
	960MHz-1GHz	54.0	Quasi-peak			
	Above 1GHz	54.0	Average Value			
		74.0	Peak Value			
Test Setup:						
						
						
Figure 1. 30MHz to 1GHz		Figure 2. Above 1 GHz				
Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Test the EUT in the lowest channel, the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. 					
Test Configuration:	Measurements Below 1000MHz					

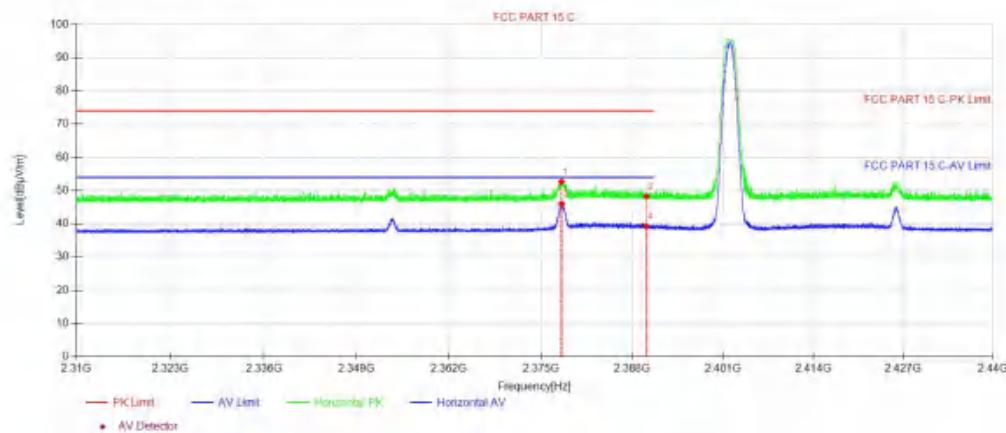


	<ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum <p>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the worst case of GFSK Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

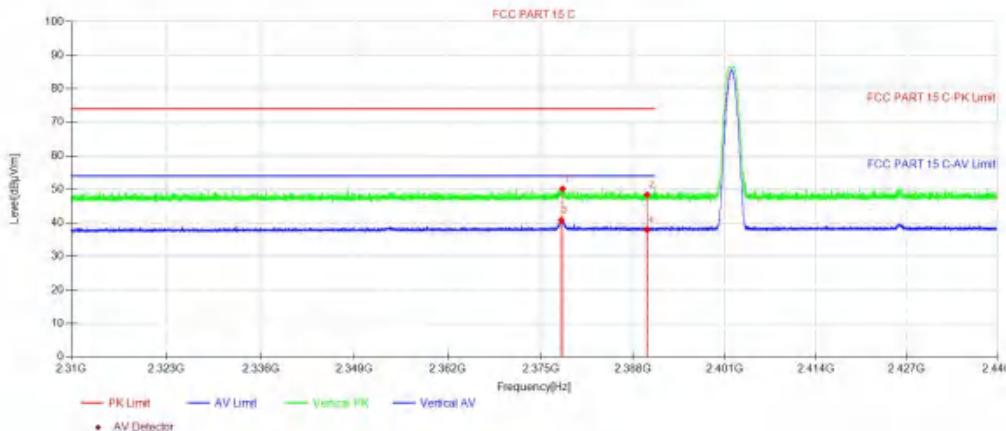


Test Date

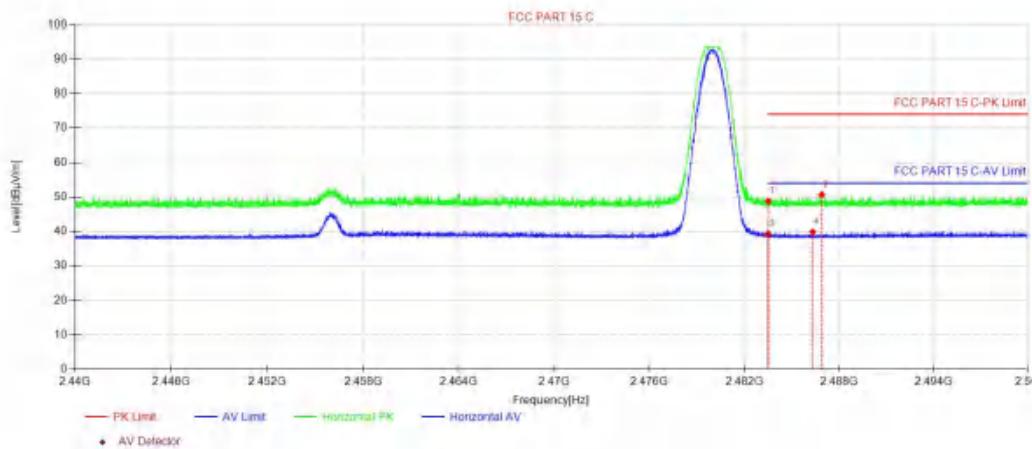
BLE 1M 2402MHz



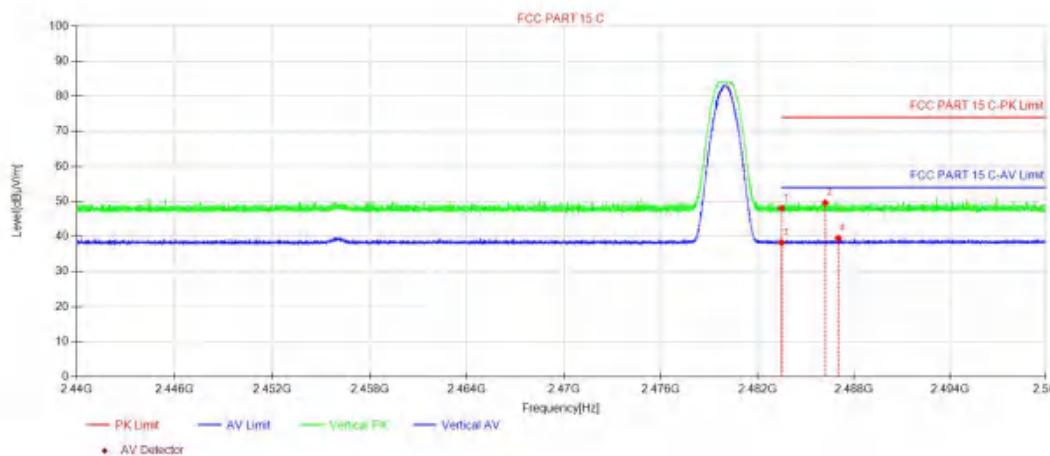
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	AV Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2377.92	53.50	-0.84	52.66	74.00	21.34	150	5	PK	Horizontal
2	2390.01	49.08	-0.80	48.28	74.00	25.72	150	0	PK	Horizontal
3	2377.96	46.88	-0.84	46.04	54.00	7.96	150	5	AV	Horizontal
4	2390.01	40.10	-0.80	39.30	54.00	14.70	150	0	AV	Horizontal



NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	AV Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2378.07	51.00	-0.84	50.16	74.00	23.84	150	350	PK	Vertical
2	2390.01	49.19	-0.80	48.39	74.00	25.61	150	28	PK	Vertical
3	2377.89	41.66	-0.84	40.82	54.00	13.18	150	4	AV	Vertical
4	2390.01	38.76	-0.80	37.96	54.00	16.04	150	114	AV	Vertical



NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	AV Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.51	49.08	-0.29	48.79	74.00	25.21	150	61	PK	Horizontal
2	2486.91	50.95	-0.26	50.69	74.00	23.31	150	2	PK	Horizontal
3	2483.51	39.60	-0.29	39.31	54.00	14.69	150	13	AV	Horizontal
4	2486.33	40.14	-0.26	39.88	54.00	14.12	150	0	AV	Horizontal



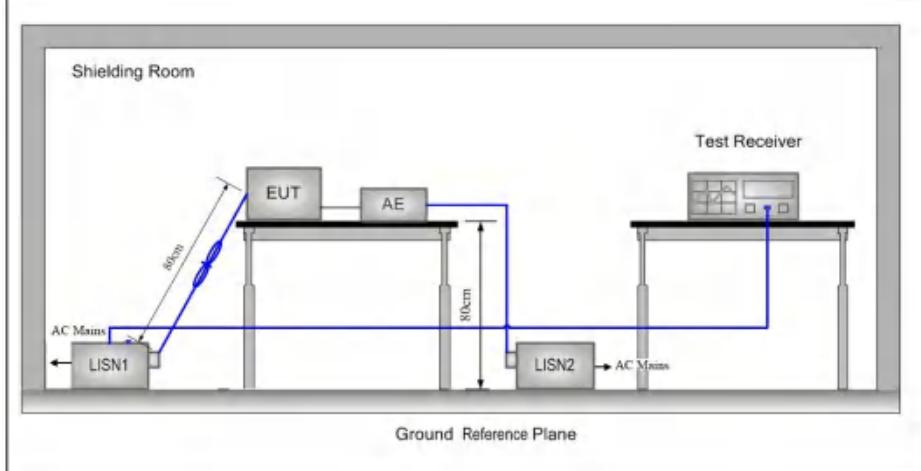
NO.	Freq. [MHz]	Reading Level [dB μ V]	Correct Factor [dB/m]	Result Level [dB μ V/m]	AV Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	48.36	-0.29	48.07	74.00	25.93	150	58	PK	Vertical
2	2486.22	49.92	-0.27	49.65	74.00	24.35	150	36	PK	Vertical
3	2483.50	38.61	-0.29	38.32	54.00	15.68	150	58	AV	Vertical
4	2487.03	39.82	-0.26	39.56	54.00	14.44	150	295	AV	Vertical

Note:

1. The BLE 1M is the worse case.
2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor ,Cable Factor etc.)

3.10 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 2013 on conducted measurement. 		
Test Setup:			



Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

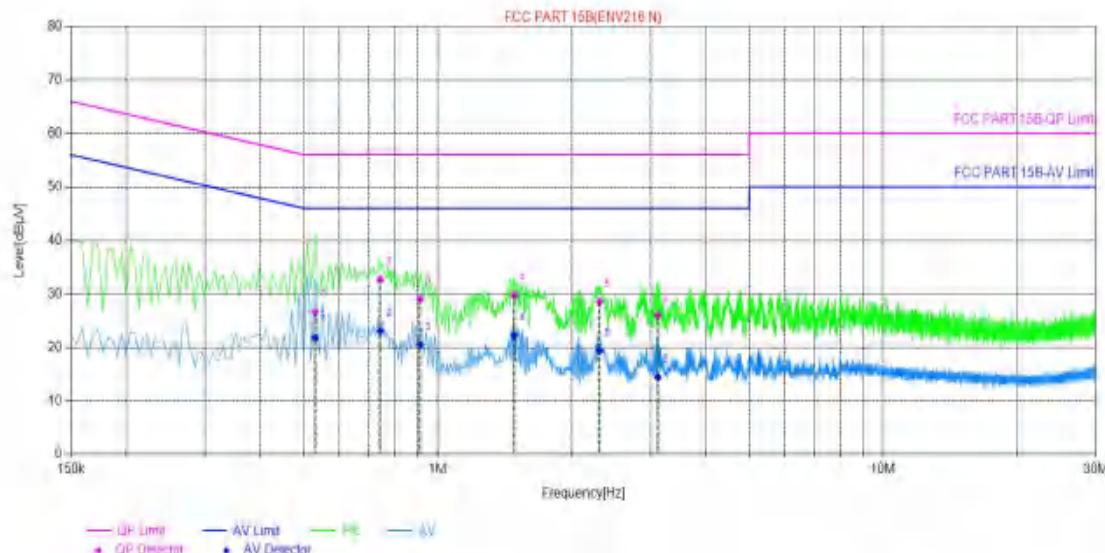


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:

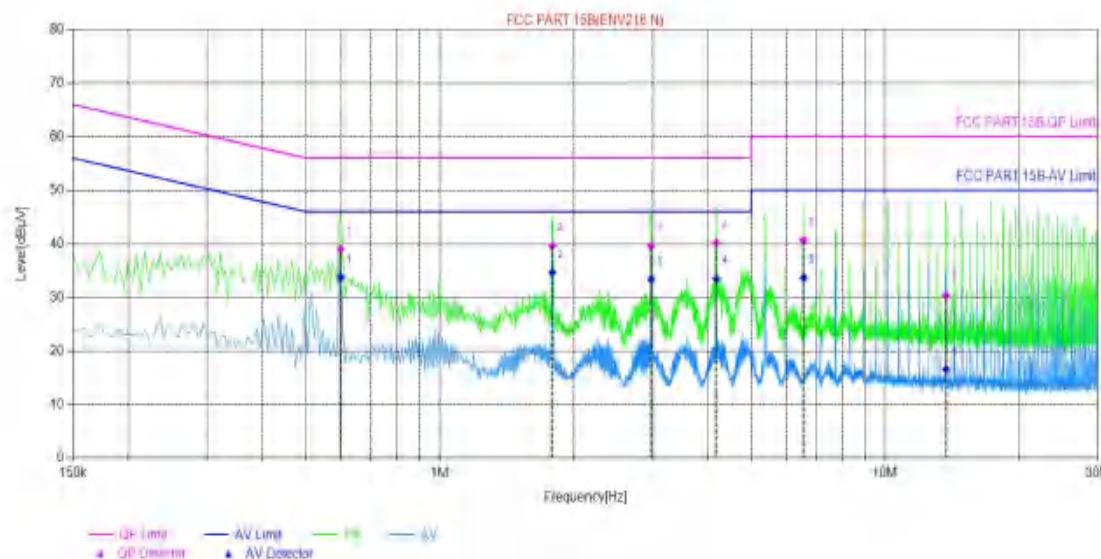


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.5304	9.73	26.57	56.00	29.43	21.83	46.00	24.17	PASS
2	0.7425	9.83	32.70	56.00	23.30	23.02	46.00	22.98	PASS
3	0.9117	9.73	29.03	56.00	26.97	20.50	46.00	25.50	PASS
4	1.4820	9.73	29.70	56.00	26.30	22.22	46.00	23.78	PASS
5	2.3041	9.80	28.46	56.00	27.54	19.37	46.00	26.63	PASS
6	3.1176	9.88	25.99	56.00	30.01	14.41	46.00	31.59	PASS



Neutral Line:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.5985	9.78	38.95	56.00	17.05	33.73	46.00	12.27	PASS
2	1.7891	9.75	39.62	56.00	16.38	34.60	46.00	11.40	PASS
3	2.9831	9.87	39.53	56.00	16.47	33.42	46.00	12.58	PASS
4	4.1756	9.96	40.18	56.00	15.82	33.48	46.00	12.52	PASS
5	6.5598	9.99	40.66	60.00	19.34	33.67	50.00	16.33	PASS
6	13.6983	9.90	30.38	60.00	29.62	16.59	50.00	33.41	PASS

Remark:

1. The BLE 1M is the worse case.
2. The following Quasi-Peak and Average measurements were performed on the EUT:
3. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor etc.)

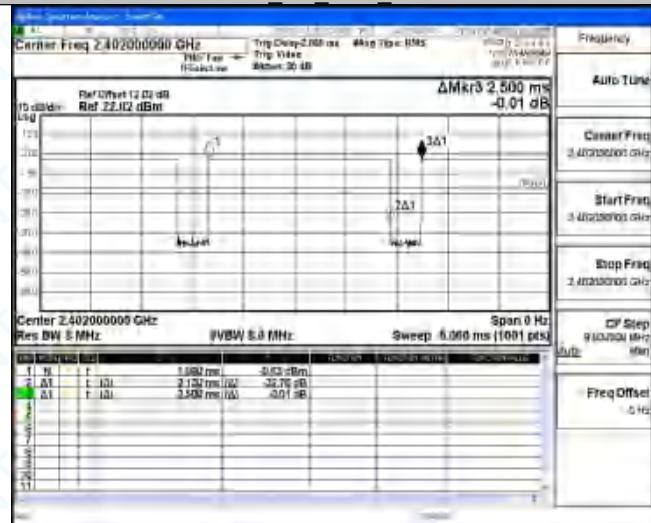
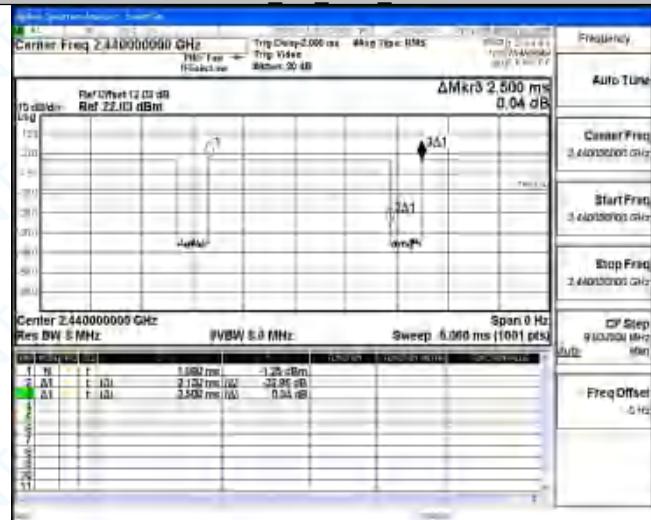
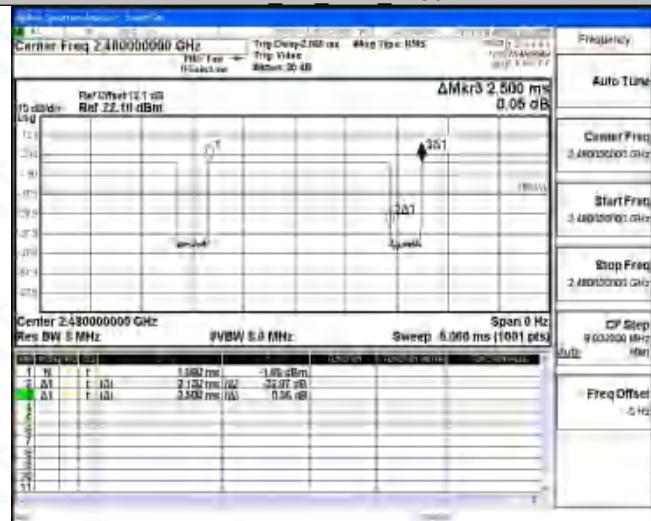


4 Appendix

Appendix A: Duty Cycle

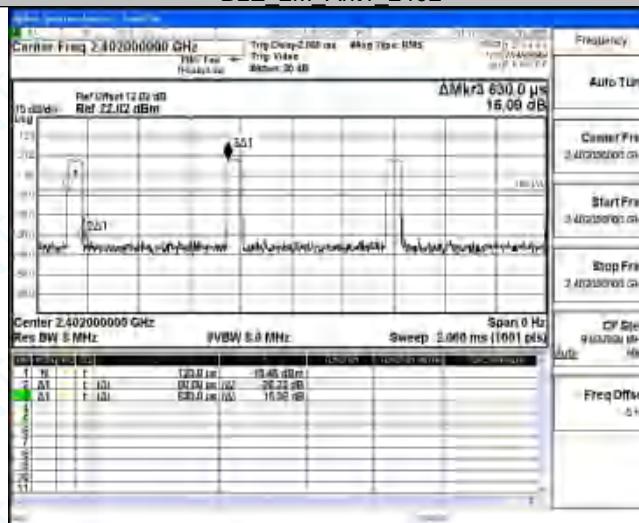
Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	---
		2440	2.13	2.50	0.8520	85.20	0.70	---	---
		2480	2.13	2.50	0.8520	85.20	0.70	---	---
BLE_2M	Ant1	2402	0.06	0.63	0.0952	9.52	10.21	---	---
		2440	0.06	0.63	0.0952	9.52	10.21	---	---
		2480	1.09	2.50	0.4360	43.60	3.61	---	---

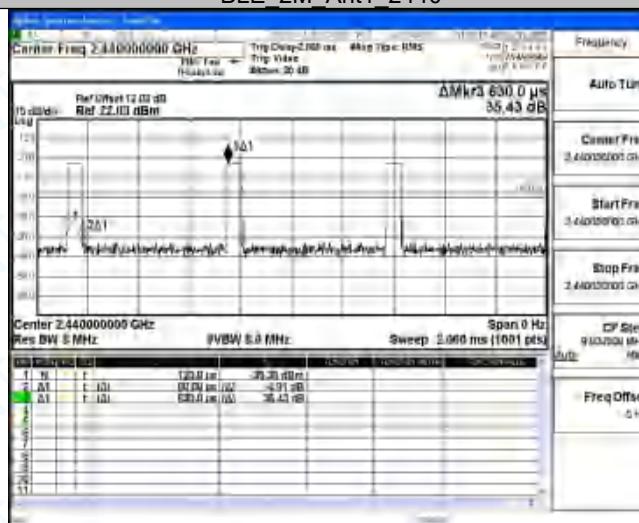
**Test Graphs****BLE_1M_Ant1_2402****BLE_1M_Ant1_2440****BLE_1M_Ant1_2480**



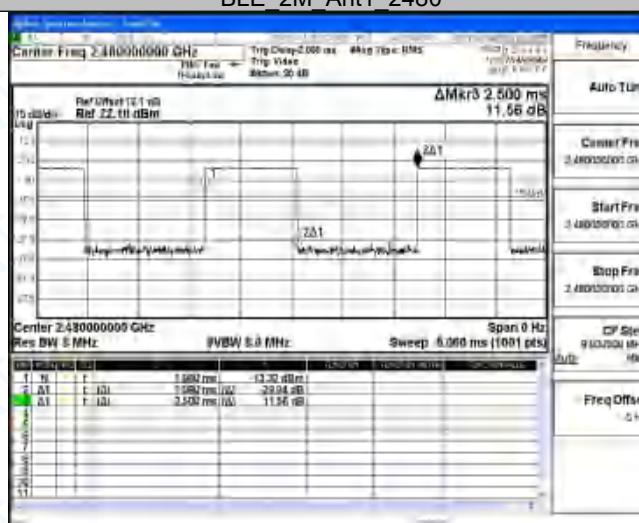
BLE_2M_Ant1_2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480





Appendix B: DTS Bandwidth

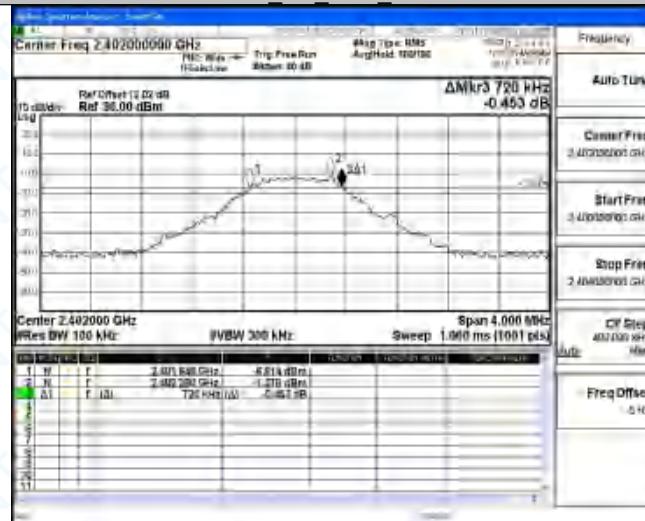
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.720	2401.648	2402.368	0.5	PASS
		2440	0.736	2439.628	2440.364	0.5	PASS
		2480	0.692	2479.688	2480.380	0.5	PASS
BLE_2M	Ant1	2402	1.300	2401.352	2402.652	0.5	PASS
		2440	1.308	2439.356	2440.664	0.5	PASS
		2480	1.328	2479.352	2480.680	0.5	PASS



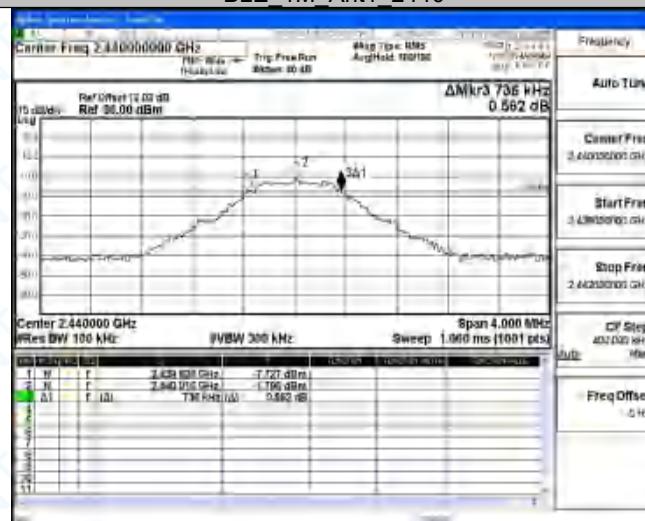
Test Graphs

BLE_1M_Ant1_2402



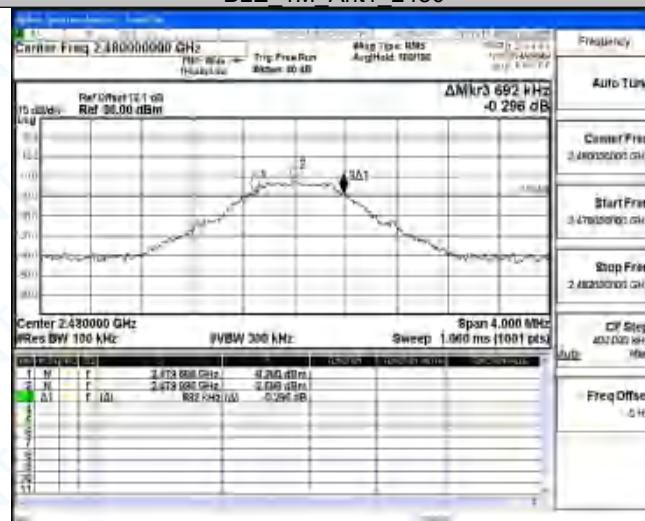
Frequency
Auto-TUNE
Carrier Freq
2.402000 GHz
Start Freq
2.401990 GHz
Stop Freq
2.402010 GHz
CF Step
400.000 kHz
Auto
Freq Offset
5 Hz

BLE_1M_Ant1_2440



Frequency
Auto-TUNE
Carrier Freq
2.440000 GHz
Start Freq
2.439990 GHz
Stop Freq
2.440010 GHz
CF Step
400.000 kHz
Auto
Freq Offset
5 Hz

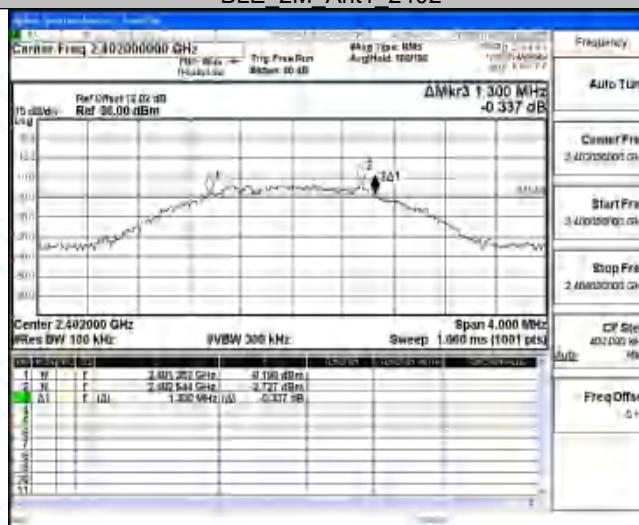
BLE_1M_Ant1_2480



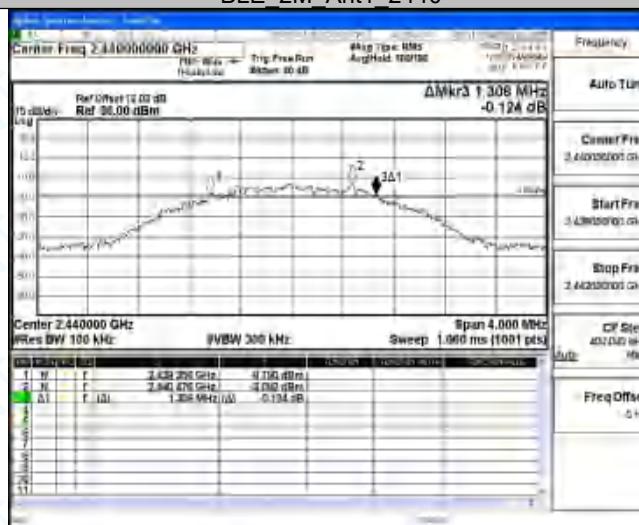
Frequency
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Start Freq
2.429990 GHz
Stop Freq
2.430010 GHz
CF Step
400.000 kHz
Auto
Freq Offset
5 Hz



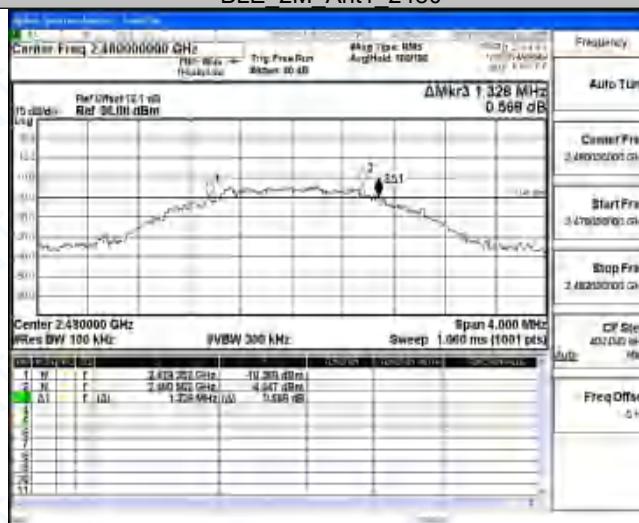
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

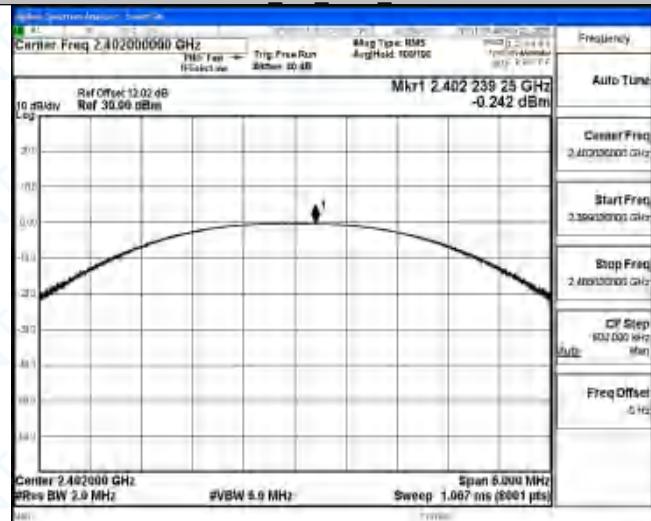
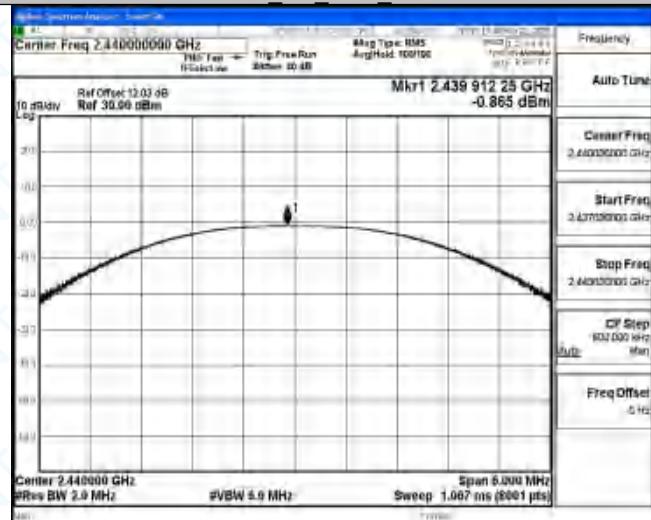
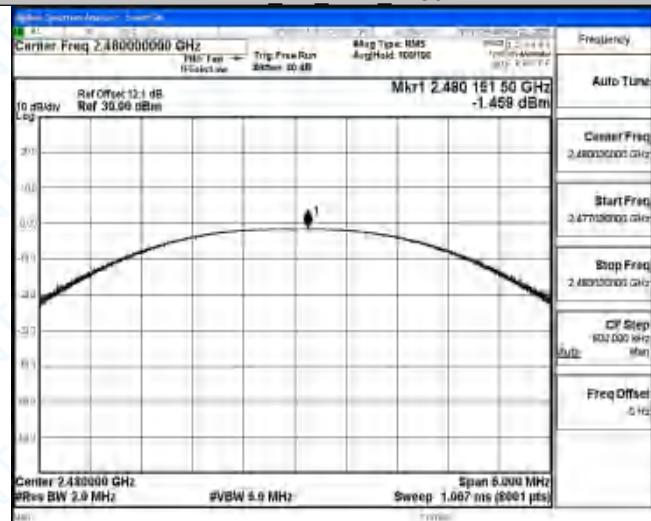




Appendix C: Maximum conducted output power

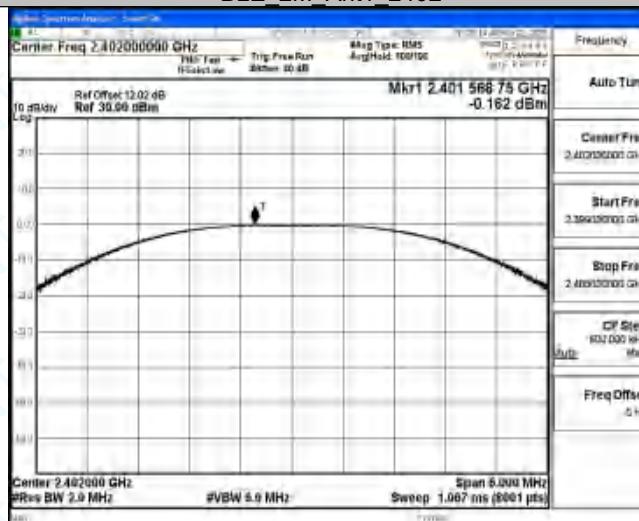
Test Result

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.24	≤30	PASS
		2440	-0.87	≤30	PASS
		2480	-1.46	≤30	PASS
BLE_2M	Ant1	2402	-0.16	≤30	PASS
		2440	-0.76	≤30	PASS
		2480	-1.25	≤30	PASS

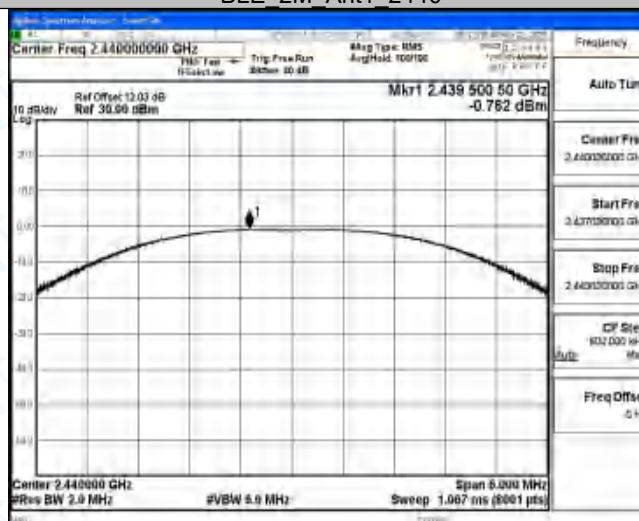
**Test Graphs****BLE_1M_Ant1_2402****BLE_1M_Ant1_2440****BLE_1M_Ant1_2480**



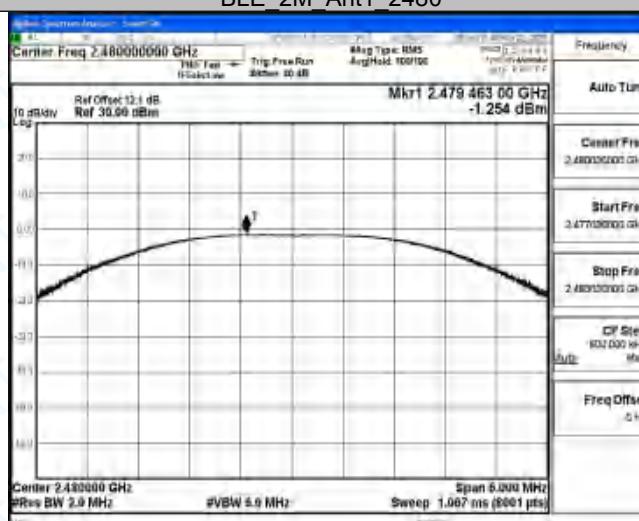
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

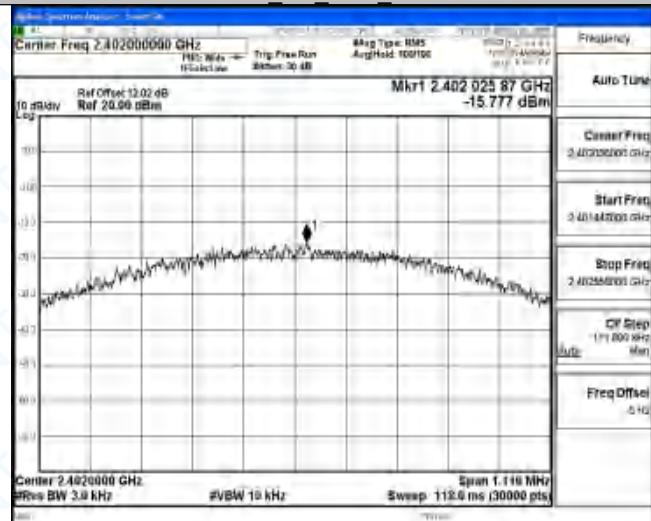
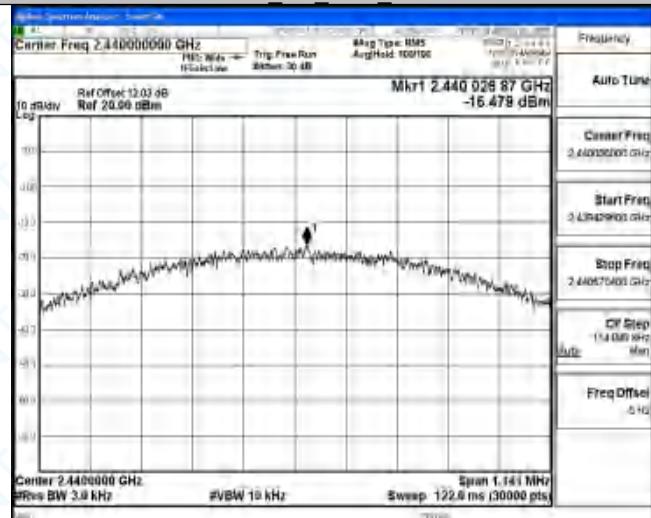
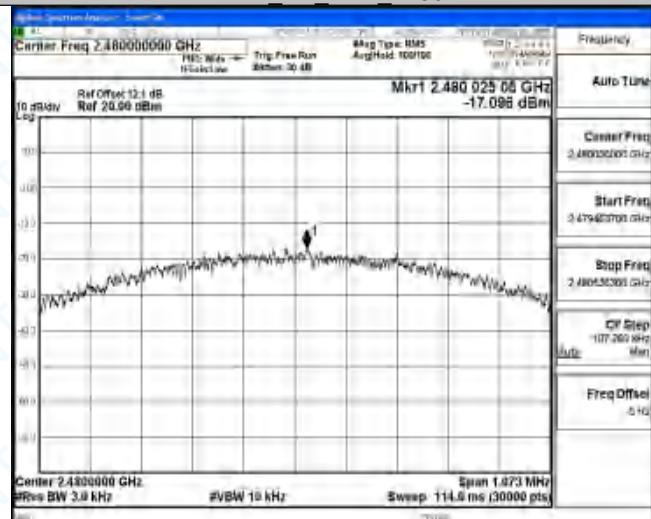




Appendix D: Maximum power spectral density

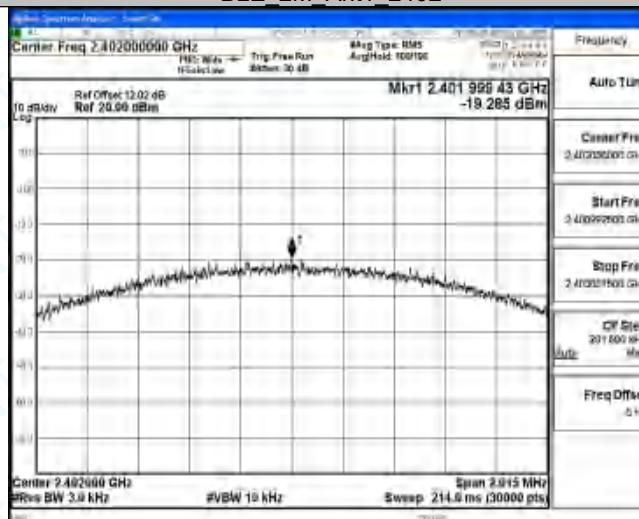
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.78	≤8.00	PASS
		2440	-16.48	≤8.00	PASS
		2480	-17.10	≤8.00	PASS
BLE_2M	Ant1	2402	-19.29	≤8.00	PASS
		2440	-19.75	≤8.00	PASS
		2480	-20.72	≤8.00	PASS

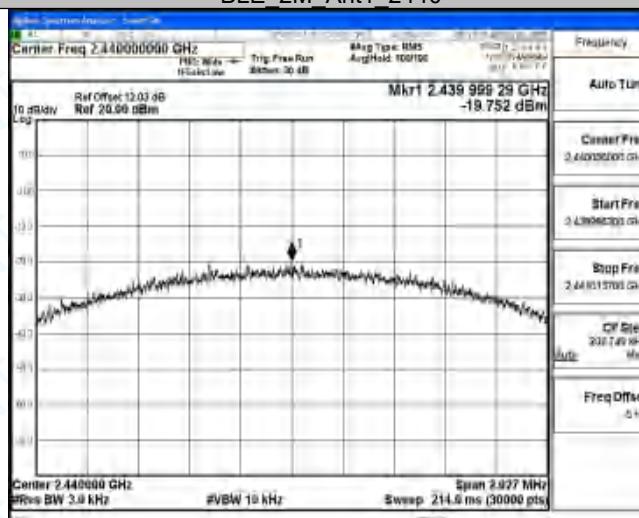
**Test Graphs****BLE_1M_Ant1_2402****BLE_1M_Ant1_2440****BLE_1M_Ant1_2480**



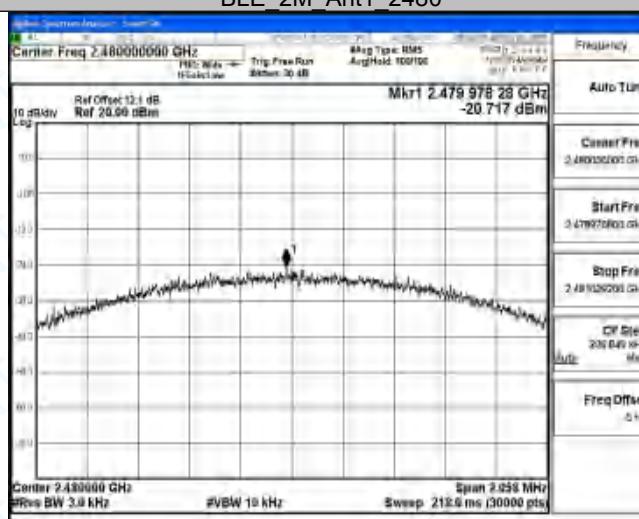
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480





Appendix E: Band edge measurements

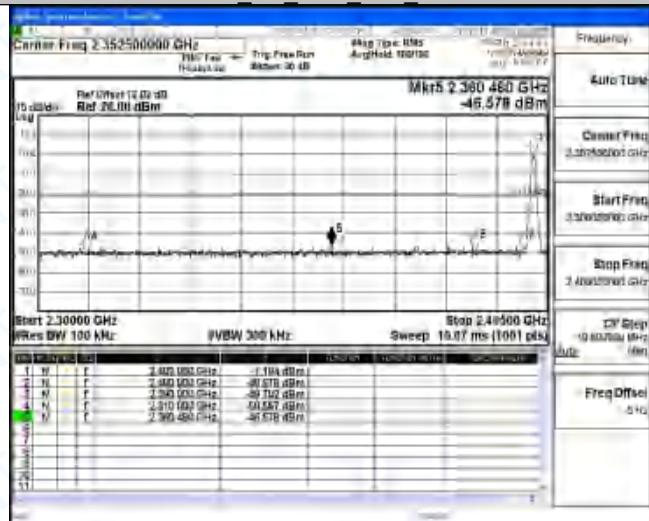
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.18	-46.58	≤-21.18	PASS
		High	2480	-2.09	-47.2	≤-22.09	PASS
BLE_2M	Ant1	Low	2402	-1.47	-36.57	≤-21.47	PASS
		High	2480	-2.62	-46.69	≤-22.62	PASS

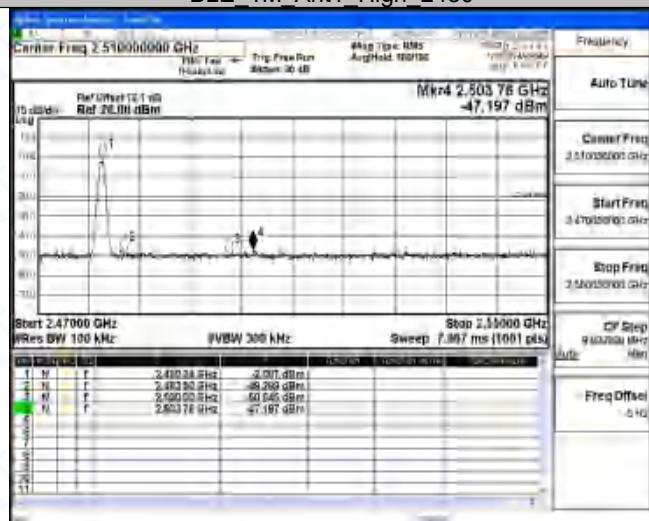


Test Graphs

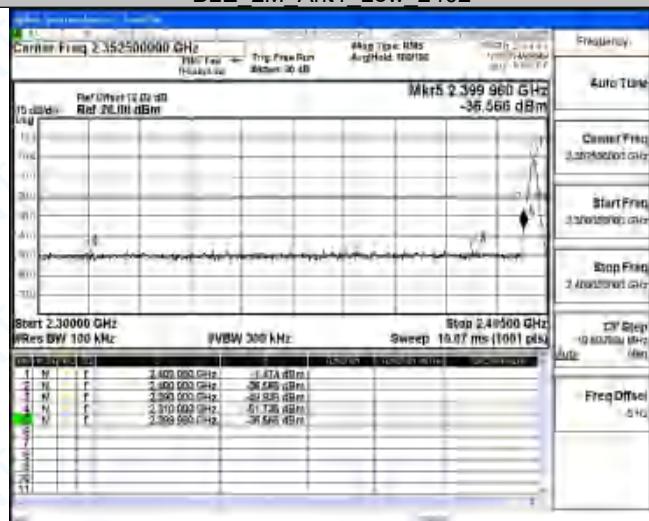
BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402



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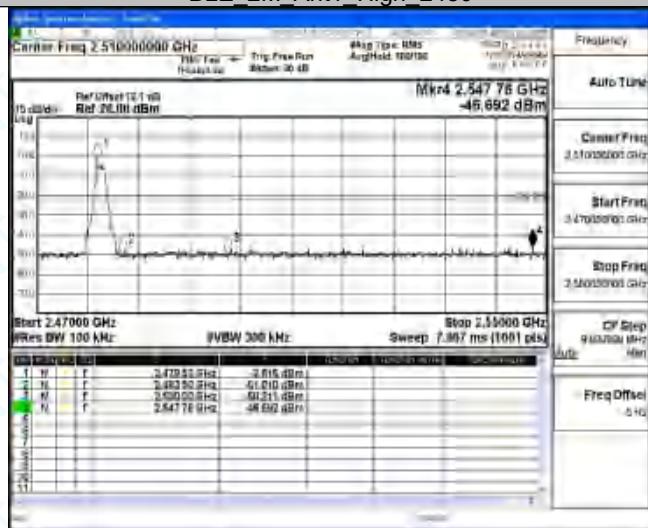
Web: www.dn-testing.com

Tel: +86-769-88087383

E-mail: service@dn-testing.com



BLE_2M_Ant1_High_2480





Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-59.19	≤-22.3	PASS
			1000~26500	-2.30	-42.86	≤-22.3	PASS
		2440	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-58.67	≤-22.86	PASS
			1000~26500	-2.86	-41.61	≤-22.86	PASS
		2480	Reference	-3.68	-3.68	---	PASS
			30~1000	-3.68	-59.47	≤-23.68	PASS
			1000~26500	-3.68	-42.62	≤-23.68	PASS
BLE_2M	Ant1	2402	Reference	-4.91	-4.91	---	PASS
			30~1000	-4.91	-59.19	≤-24.91	PASS
			1000~26500	-4.91	-42.66	≤-24.91	PASS
		2440	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-58.92	≤-22.23	PASS
			1000~26500	-2.23	-43.25	≤-22.23	PASS
		2480	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-58.61	≤-25.79	PASS
			1000~26500	-5.79	-44.87	≤-25.79	PASS

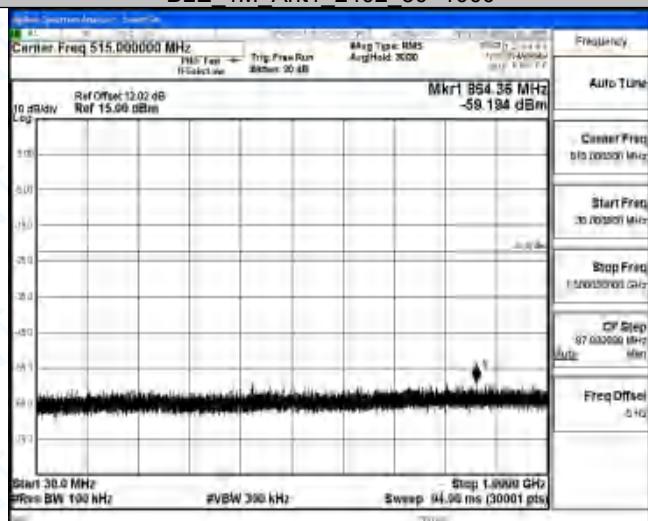


Test Graphs

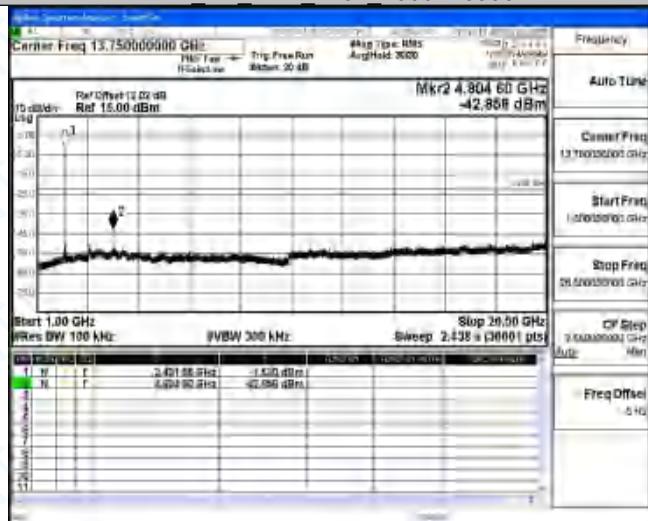
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



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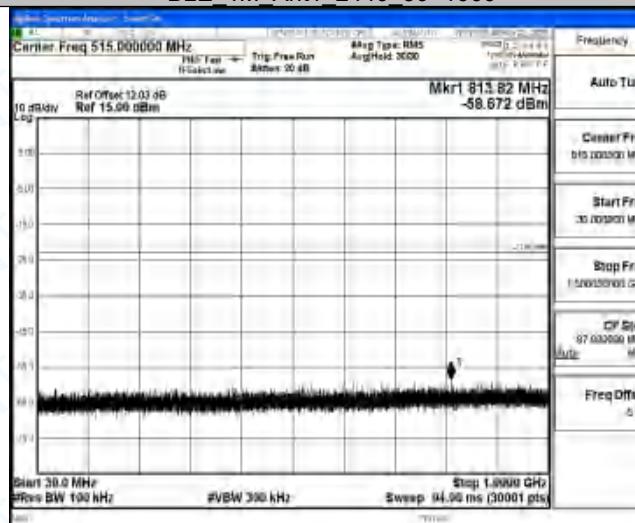
E-mail: service@dn-testing.com



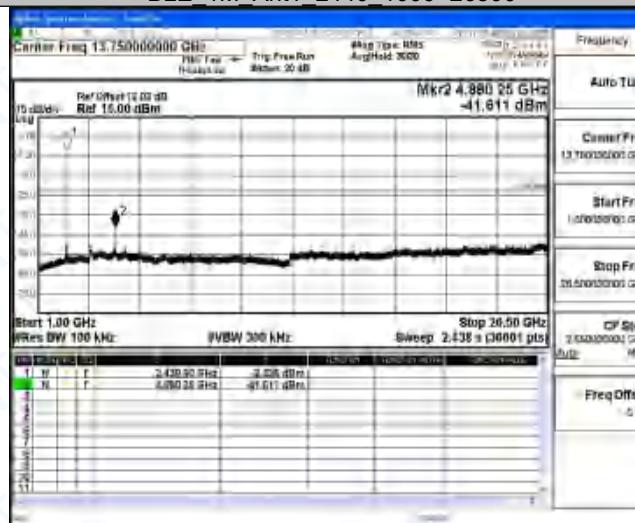
BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000

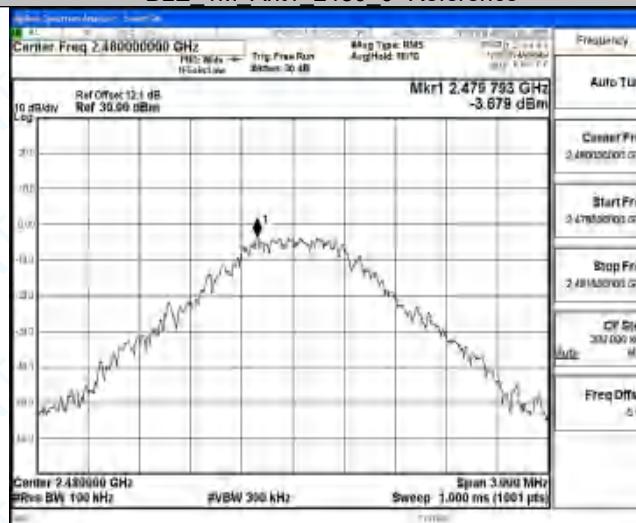


BLE 1M Ant1 2440 1000~26500

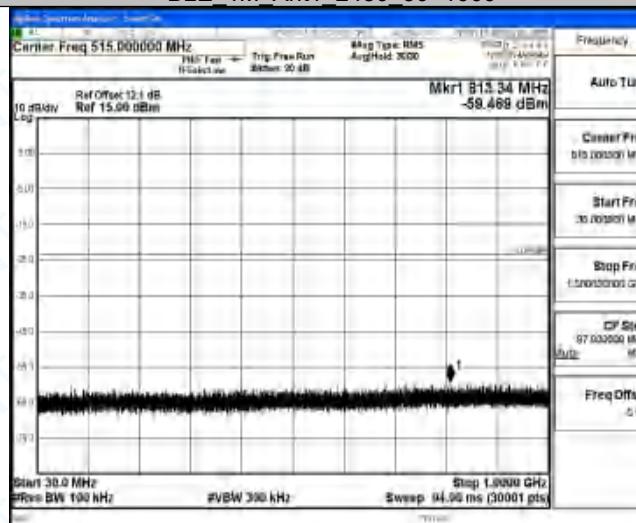




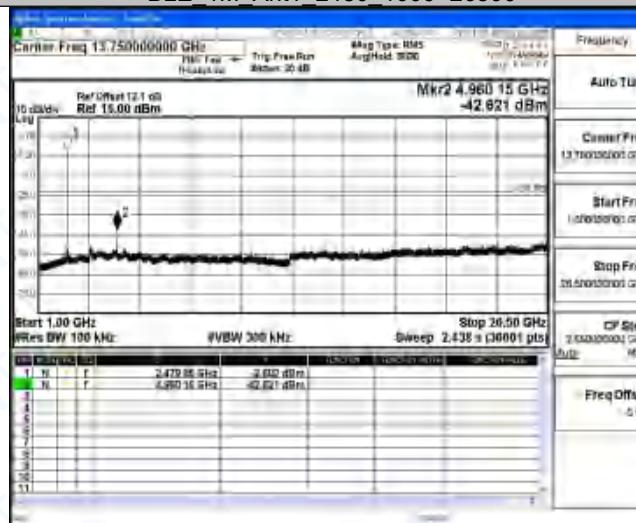
BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000

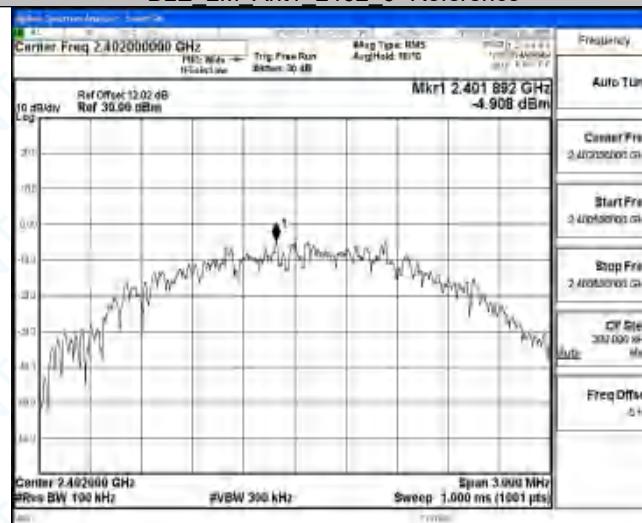


BLE 1M Ant1 2480 1000~26500

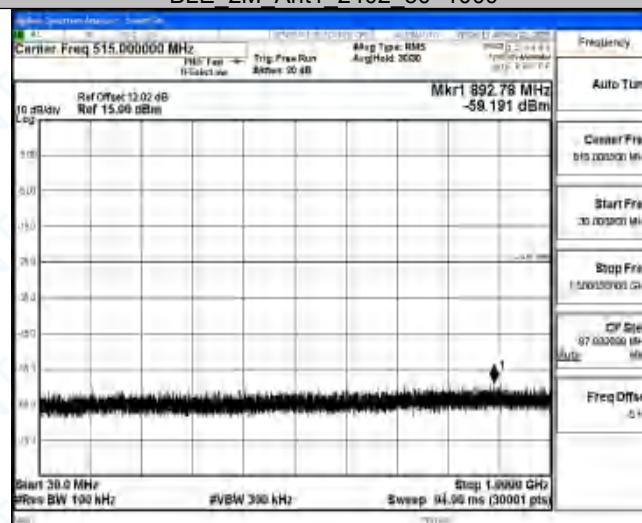




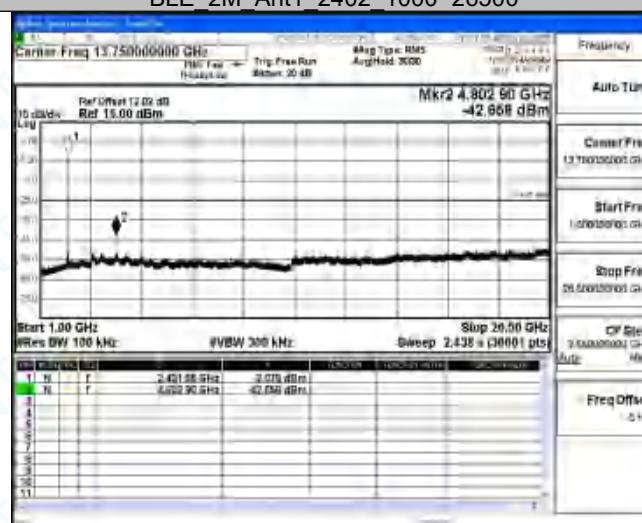
BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500

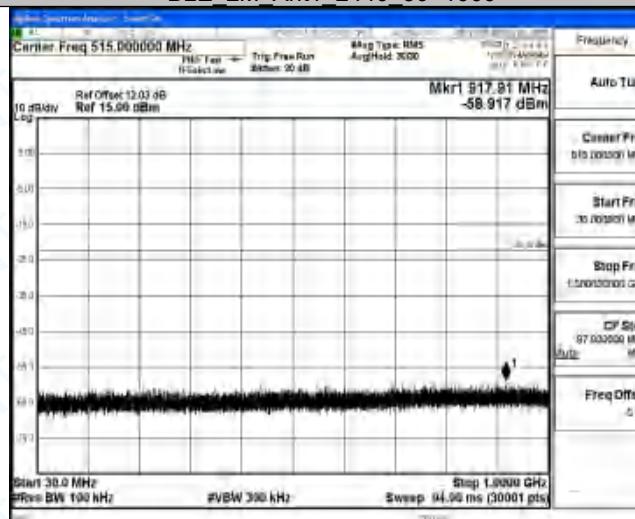




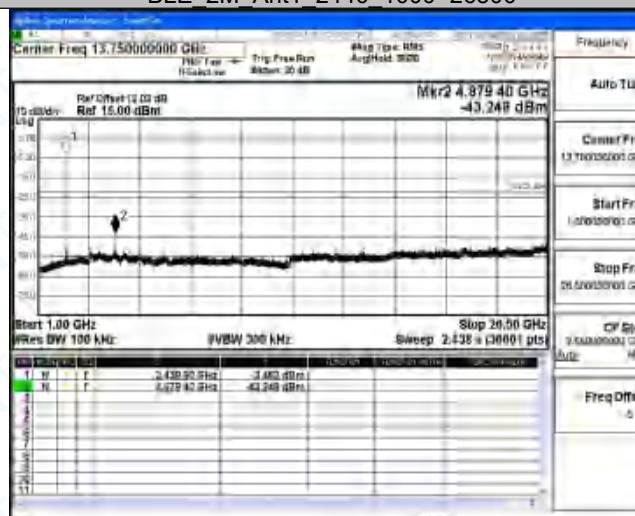
BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



BLE 2M Ant1 2440 1000~26500

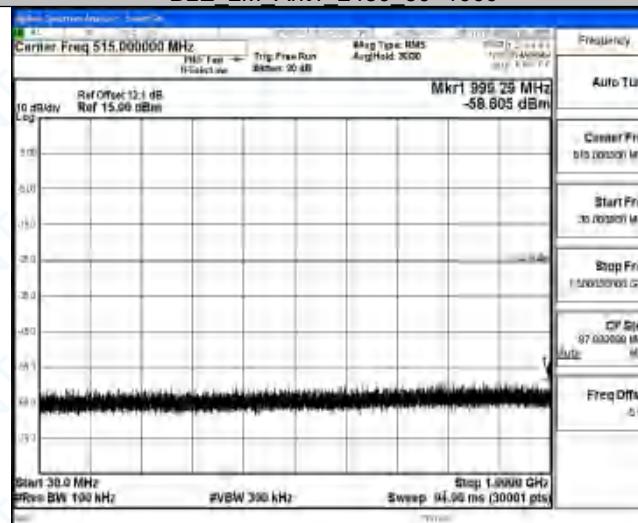




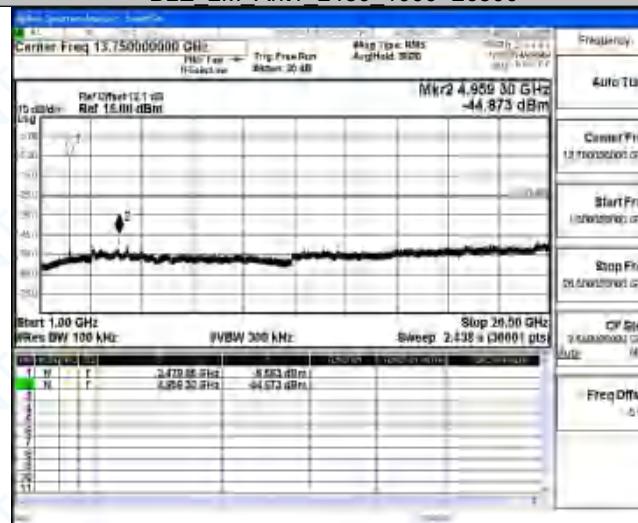
BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



BLE 2M Ant1 2480 1000~26500



The End Report

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