

FCC Test Report

Application No.:	DNT241199R1636-4141	
Applicant:	Guangdong Seneasy Intelligent Technology Co., Ltd.	
Address of Applicant:	No.10, Dongsheng Zhong Road, Chenjiang Street, Zhongkai	Hi-
EUT Description:	Tech District, Huizhou City, Guangdong, China	
Model No.:	SRC-3925	
FCC ID:	2A66E-SRC-3925	
Power Supply	DC 3V	
Trade Mark:		
	47 CFR FCC Part 2, Subpart J	
Standards:	47 CFR Part 15, Subpart C ANSI C63.10: 2013	
Date of Receipt:	2024/6/5	
Date of Test:	2024/6/6 to 2023/6/17	
Date of Issue:	2024/6/18	
Test Result:	PASS	
Prepared By:	Wayne Jon (Testing Engineer)]

Reviewed By: Approved By: (Testing Engineer) (Project Engineer) (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.



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 Report Revise Record
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Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0		Jun.18, 2024	Valid	Original Report



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Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	<u> </u>	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	N/A

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 Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

2.2 General Description of EUT

Manufacturer:	Guangdong Seneasy Intelligent Technology Co., Ltd.
Address of Manufacturer:	No.10, Dongsheng Zhong Road, Chenjiang Street, Zhongkai Hi-Tech District, Huizhou City, Guangdong, China
EUT Description:	Bluetooth remote control
Test Model No.:	SRC-3925
Additional Model(s):	
Chip Type:	RTL8752CJF
Serial Number	PR241199R1636
Power Supply	DC 3V
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Sample Type:	□ Portable Device, □ Module, ⊠ Mobile Device
Antenna Type:	External, 🖂 Integrated
Antenna Ports	🖂 Ant 1, 🗌 Ant 2, 🗌 Ant 3
Antonno Cointi	⊠ Provided by applicant
Antenna Gain*:	2.84dBi
	⊠ Provided by applicant
RF Cable*:	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:

*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.



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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	RTL8762x_RFTestTool_v1.0.2.4			
Frequency(MHz)	2402	2440	2480	
BLE 1M Setting	4	4	4	
BLE 2M Setting	4	4	4	

2.6 Description of Support Units

The EUT has been tested independent unit.



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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.

IC#: 31026.

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)
		± 4.8dB (Below 1GHz)
2	Radiated Emission	± 4.8dB (1GHz to 6GHz)
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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2.9 Equipment List

	For Conne	ect EUT Anten	na Terminal	Test	
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2023-10-25	2024-10-24
Signal Generator	Keysight	N5182B	MY57300617	2023-10-25	2024-10-24
Power supply	Keysight	E3640A	ZB2022656	2023-10-25	2024-10-24
Radio Communication Tester	R&S	CMW500	105082	2023-10-25	2024-10-24
Spectrum Analyzer	Aglient	N9010A	MY52221458	2023-10-25	2024-10-24
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA C	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2023-10-25	2024-10-24
Pulse Power Sensor	Anritsu	MA2411B	1911397	2023-10-25	2024-10-24
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2023-10-25	2024-10-24

Test Equipment for Conducted Emission								
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date			
Receiver	R&S	ESCI3	101152	2023-10-24	2024-10-23			
LISN	R&S	ENV216	102874	2023-10-24	2024-10-23			
ISN	R&S	ENY81-CA6	1309.8590.03	2023-10-24	2024-10-2			

Test Ec	quipment for F	Radiated Emis	sion(30MHz-	-1000MHz	<u>z)</u>
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TILE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2023-10-24	2024-10-23
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2023-10-24	2024-10-23

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Test E	quipment for I	Radiated Emi	ssion(Above	1000MHz)
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2023-10-24	2024-10-23
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23
Horn Antenna	ETS-LINDGREN	3117	00252567	2023-10-24	2024-10-23
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TILE-FULL	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2023-10-24	2024-10-23
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2023-10-24	2024-10-23

2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
	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 2.84dBi.



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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:	Spectrum Analyzer E.U.T	on on
	Non-Conducted Table	
	Ground Reference Plane	
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	5
Limit:	≥ 500 kHz	
Test Results:	Pass A A A	~

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:	POWER METER E.U.T Non-Conducted Table
	Ground Reference Plane
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	\sim	
Test Setup:	Spectrum Analyzer E.U.T	J.	ON N
	Non-Conducted Table		
	Ground Reference Plane		
Test Instruments:	Refer to section 2.9 for details	0	0
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the the worst case of GFSK		<u> </u>
Limit:	≤8.00dBm/3kHz		
Test Results:			

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:	ANSI C63.10: 2013 Section 11.13					
	Ground Reference Plane					
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:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
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



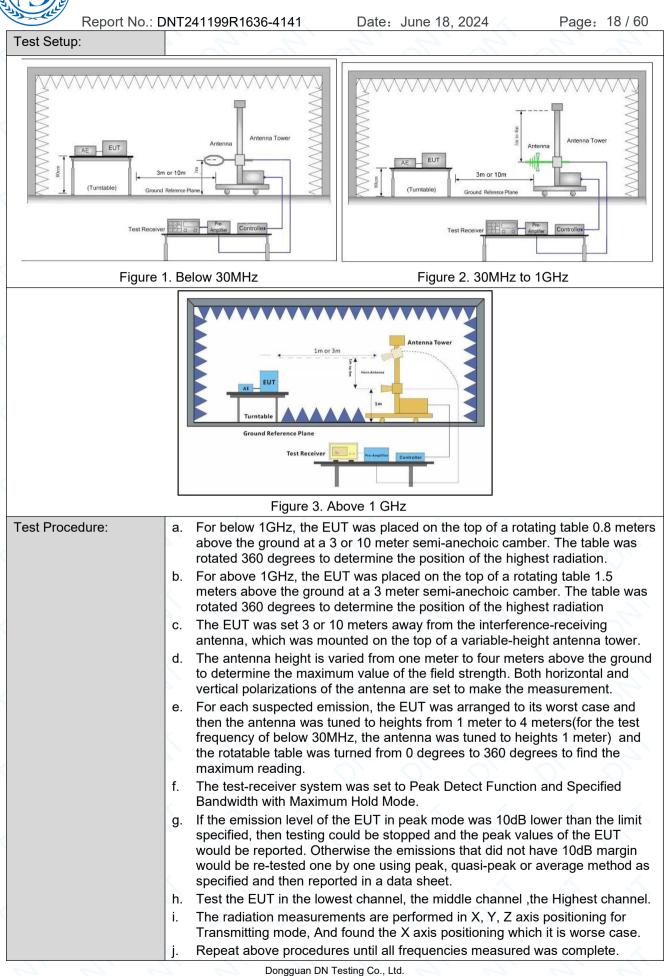
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3.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Sect	tion 11.12		$\langle \langle \cdot \rangle \rangle$	$\langle \rangle$			
Test Site:	Measurement Distance:	3m or 10m (Semi-A	Anechoic Ch	amber)	02			
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			
		Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz (DC≷0.98)	Average			
	5 6 2	2 2	5	≥1/T (DC<0.98)	2 2			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	<u> </u>	<u> </u>	300			
	0.490MHz-1.705MHz	24000/F(kHz)	<u></u>	2 - 2	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			



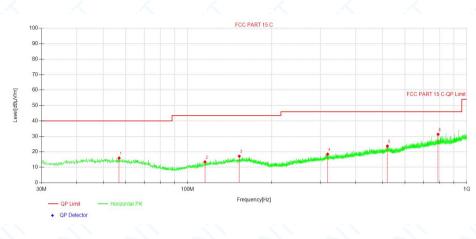


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Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 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



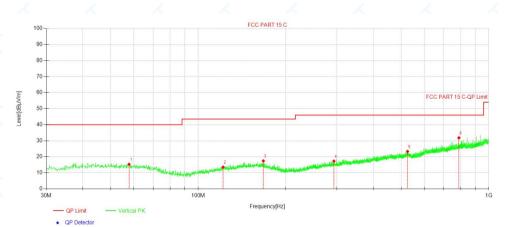
Test data For 30-1000MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	56.87	24.43	-8.45	15.98	40.00	24.02	100	115	QP
2	115.46	24.14	-10.66	13.48	43.50	30.02	100	216	QP
3	153.20	24.97	-7.80	17.17	43.50	26.33	200	311	QP
4	317.34	24.89	-6.40	18.49	46.00	27.51	100	167	QP
5	519.80	24.95	-1.21	23.74	46.00	22.26	100	65	QP
6	789.19	27.28	4.05	31.33	46.00	14.67	200	332	QP

Vertical:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	57.84	23.84	-8.54	15.30	40.00	24.70	200	0	QP
2	121.77	23.70	-10.14	13.56	43.50	29.94	200	67	QP
3	167.55	25.56	-8.13	17.43	43.50	26.07	200	294	QP
4	293.09	24.44	-7.18	17.26	46.00	28.74	200	89	QP
5	525.33	24.47	-1.14	23.33	46.00	22.67	100	180	QP
6	789.19	27.78	4.05	31.83	46.00	14.17	200	25	QP

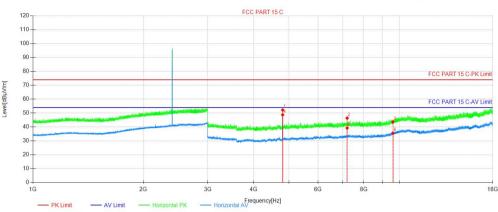
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For above 1GHz

BLE 1M 2402MHz

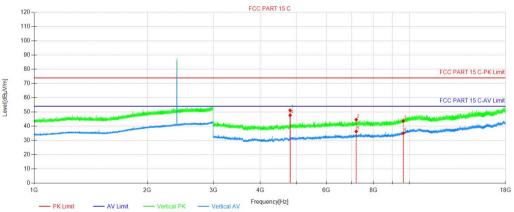
Horizontal:



AV Detector

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	4803.84	56.82	-4.61	52.21	74.00	21.79	150	346	Peak
2	7206.96	48.15	-1.76	46.39	74.00	27.61	150	202	Peak
3	9608.58	42.76	0.88	43.64	74.00	30.36	150	122	Peak
4	4804.59	53.33	-4.61	48.72	54.00	5.28	150	346	AV
5	7206.21	40.97	-1.76	39.21	54.00	14.79	150	163	AV
6	9608.58	34.65	0.88	35.53	54.00	18.47	150	202	AV

Vertical:



AV	Detector

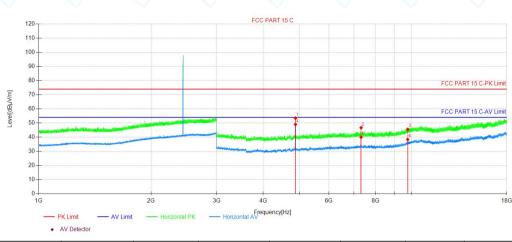
NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	4803.84	55.79	-4.61	51.18	74.00	22.82	150	22	Peak
2	7205.46	46.36	-1.77	44.59	74.00	29.41	150	9	Peak
3	9608.58	42.74	0.88	43.62	74.00	30.38	150	0	Peak
4	4804.59	52.22	-4.61	47.61	54.00	6.39	150	36	AV
5	7206.21	38.07	-1.76	36.31	54.00	17.69	150	197	AV
6	9608.58	34.14	0.88	35.02	54.00	18.98	150	102	AV

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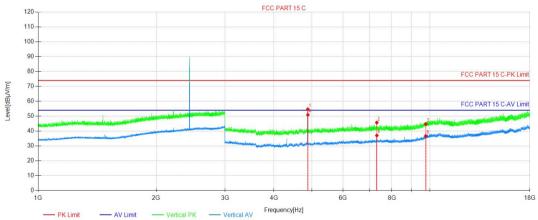
BLE 1M 2440MHz





[MHz] [dBµ	ing Correct el Factor V] [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1 4880.34 58.1	7 -4.71	53.46	74.00	20.54	150	341	Peak
2 7320.96 48.1	6 -1.49	46.67	74.00	27.33	150	195	Peak
3 9760.08 43.8	8 1.62	45.50	74.00	28.50	150	207	Peak
4 4880.34 53.7	3 -4.71	49.02	54.00	4.98	150	341	AV
5 7320.21 41.4	4 -1.49	39.95	54.00	14.05	150	167	AV
6 9760.08 36.7	5 1.62	38.37	54.00	15.63	150	247	AV

Vertical:



•

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	4879.59	59.39	-4.70	54.69	74.00	19.31	150	31	Peak
2	7320.21	47.18	-1.49	45.69	74.00	28.31	150	5	Peak
3	9760.08	43.11	1.62	44.73	74.00	29.27	150	206	Peak
4	4881.09	55.59	-4.71	50.88	54.00	3.12	150	31	AV
5	7320.96	38.50	-1.49	37.01	54.00	16.99	150	18	AV
6	9760.08	35.13	1.62	36.75	54.00	17.25	150	206	AV

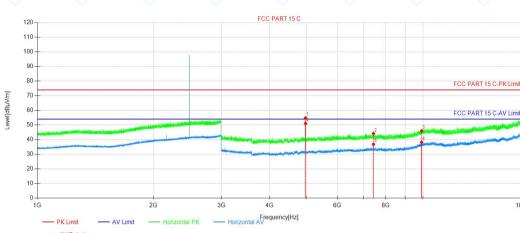
Dongguan DN Testing Co., Ltd.



18G

BLE 1M 2480MHz

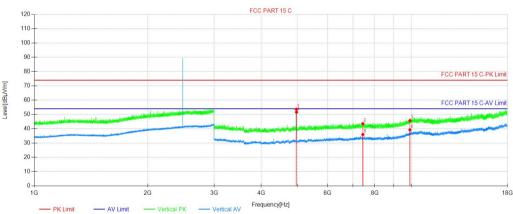
Horizontal:



AV Detector

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	4959.84	59.66	-4.86	54.80	74.00	19.20	150	244	Peak
2	7440.22	45.47	-1.34	44.13	74.00	29.87	150	204	Peak
3	9920.59	43.68	2.27	45.95	74.00	28.05	150	15	Peak
4	4960.59	55.88	-4.86	51.02	54.00	2.98	150	244	AV
5	7440.97	38.18	-1.34	36.84	54.00	17.16	150	204	AV
6	9920.59	35.87	2.27	38.14	54.00	15.86	150	15	AV

Vertical:



AV Detector

Ν	٩Ο.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
	1	4959.09	58.43	-4.86	53.57	74.00	20.43	150	28	Peak
	2	7440.22	44.83	-1.34	43.49	74.00	30.51	150	263	Peak
	3	9920.59	43.44	2.27	45.71	74.00	28.29	150	234	Peak
	4	4960.59	56.44	-4.86	51.58	54.00	2.42	150	28	AV
	5	7440.22	37.28	-1.34	35.94	54.00	18.06	150	15	AV
	6	9920.59	36.93	2.27	39.20	54.00	14.80	150	192	AV

Dongguan DN Testing Co., Ltd.



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.

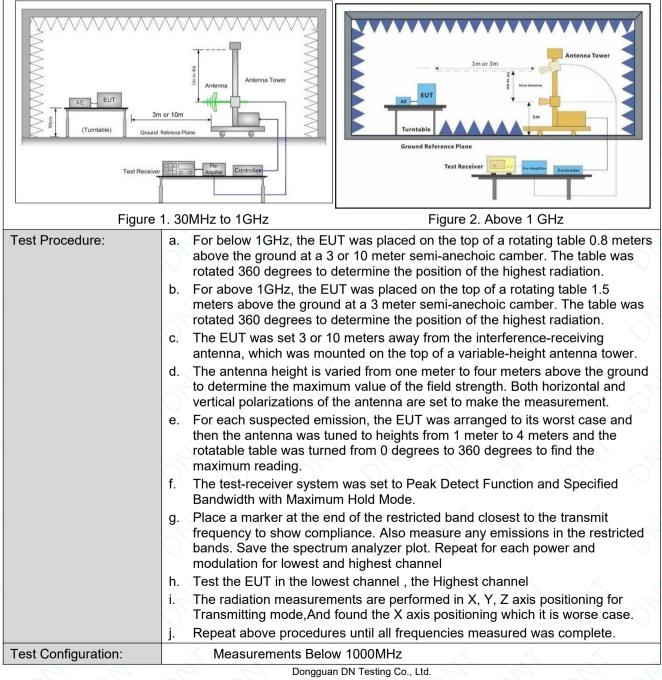


Report No.: DNT241199R1636-4141 Page: 25/60 Date: June 18, 2024 3.9 Restricted bands around fundamental frequency 47 CFR Part 15C Section 15.209 and 15.205 Test Requirement: Test Method: ANSI C63.10: 2013 Section 11.12 Test S

Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
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						
	54.0	Average Value						
Above TGHz	74.0	Peak Value						
	Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz	Frequency Limit (dBuV/m) 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz 54.0						

Test Setup:

Limit:



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

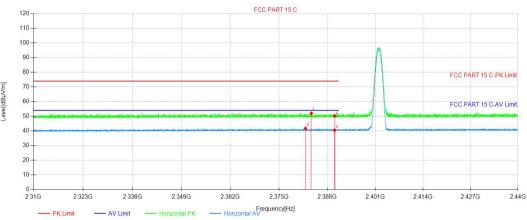


Report N	No.: DNT241199R1636-4141 Date:	June 18, 2024	Page: 26/60
	 RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 M RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000 RBW = 1 MHz VBW = 1 MHz VBW = 10 Hz, when duty cycle is le minimum transmission duration over which the transmaximum power control level for the tested 	/IHz 00MHz no less than 98 percent. ess than 98 percent where T mitter is on and is transmittin	is the
Exploratory Test Mode:	Transmitting with all kind of modulations, d Transmitting mode.	ata rates.	
Final Test Mode:	Pretest the EUT at Charge + Transmitting Through Pre-scan, find the worst case of 0 Only the worst case is recorded in the repo	GFSK	
Instruments Used:	Refer to section 2.9 for details		
Test Results:	Pass	2 2 .	4



Test Date BLE 1M 2402MHz

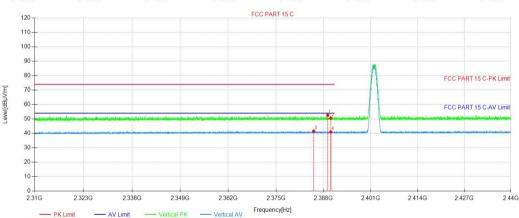
Horizontal:



AV Detector

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	2383.70	52.83	-0.82	52.01	74.00	21.99	150	131	Pk
2	2390.01	50.99	-0.80	50.19	74.00	23.81	150	180	Pk
3	2382.14	42.54	-0.83	41.71	54.00	12.29	150	18	AV
4	2390.01	41.21	-0.80	40.41	54.00	13.59	150	9	AV

Vertical:

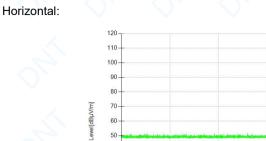


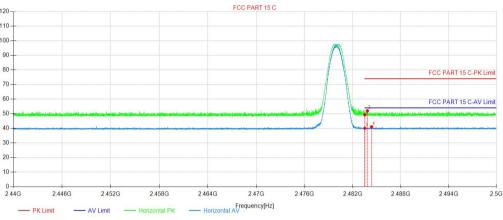
AV Detector

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	2389.19	53.41	-0.80	52.61	74.00	21.39	150	149	Pk
2	2390.01	51.35	-0.80	50.55	74.00	23.45	150	158	Pk
3	2385.31	42.34	-0.81	41.53	54.00	12.47	150	31	AV
4	2390.01	41.76	-0.80	40.96	54.00	13.04	150	233	AV



BLE1M 2480MHz

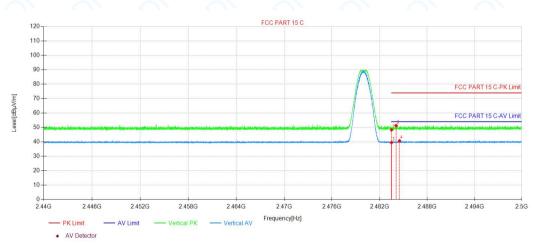




AV Detector

NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	2483.50	49.58	-0.29	49.29	74.00	24.71	150	329	Pk
2	2483.84	52.25	-0.28	51.97	74.00	22.03	150	197	Pk
3	2483.50	40.34	-0.29	40.05	54.00	13.95	150	41	AV
4	2484.35	41.29	-0.28	41.01	54.00	12.99	150	272	AV

Vertical:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	2483.51	48.62	-0.29	48.33	74.00	25.67	150	201	Pk
2	2484.09	51.57	-0.28	51.29	74.00	22.71	150	201	Pk
3	2483.51	39.77	-0.29	39.48	54.00	14.52	150	31	AV
4	2484.52	41.00	-0.28	40.72	54.00	13.28	150	325	AV



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	$\land \land \land$					
Test Frequency Range:	150kHz to 30MHz		A 7				
Limit:		Limit (dB	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarith	nm of the frequency.					
Test Procedure:	 The mains terminal disturoom. The EUT was connected Impedance Stabilization Net impedance. The power cable a second LISN 2, which was plane in the same way as the multiple socket outlet strip was single LISN provided the ratt 3) The tabletop EUT was placed on the horizontal ground reference plane. And placed on the horizontal ground the test was performed wo of the EUT shall be 0.4 m from vertical ground reference plane. The LISN 1 	to AC power source throug work) which provides a 50 es of all other units of the E s bonded to the ground refe e LISN 1 for the unit being ras used to connect multipli- ing of the LISN was not ex- aced upon a non-metallic to d for floor-standing arrange und reference plane, with a vertical ground refer- om the vertical ground refer- ane was bonded to the hori	gh a LISN 1 (Line Ω/50μH + 5Ω linear EUT were connected to rence measured. A e power cables to a ceeded. able 0.8m above the ment, the EUT was ence plane. The rear rence plane. The zontal ground				
	mounted on top of the groun between the closest points of the EUT and associated equ In order to find the maximum equipment and all of the inter	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:	Shielding Room						
	Test Receiver						



Date: June 18, 2024

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:	N/A



Date: June 18, 2024

4 Appendix

Appendix A: Duty Cycle

Test Result

Test Mode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]
		2402	0.00	0.00	100%
BLE_1M	Ant1	2440	0.00	0.00	100%
		2480	0.00	0.00	100%
		2402	0.00	0.00	100%
BLE_2M	Ant1	2440	0.00	0.00	100%
		2480	0.00	0.00	100%



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Test Graphs

Center F	RF 50 Ω DC req 2.402000000	PNO: Fast +++ Trig: Free Run	ALIGN OFF #Avg Type: RMS	10:34:00 PMJun 17, 2024 TRACE 1 2 3 4 5 6 TVPE WWWWWW DET P P P P P P	Frequency
10 dB/div	Ref Offset 12.31 dB Ref 22.31 dBm	IFGain:Low #Atten: 20 dB		Derjo et et et et	Auto Tu
12.3					Center Fr 2.402000000 G
2.31 -7.69					Start Fr 2.402000000 G
-17.7					Stop Fi 2.402000000 G
-37.7					CF SI 8.000000 M Auto M
-47.7					Freq Off 0
-67.7	402000000 GHz			Span 0 Hz	

BLE_1M_Ant1_2440

α RL RF 50 Ω	DC SENSE	PULSE 🔥 🔥	IGN OFF 10:36:25 PM Jun 17, 2024	
Center Freq 2.440000		#Avg Type: Run		Frequency
Ref Offset 12.3 IQ dB/div Ref 22.31 dl	1 dB			Auto Tur
12.3				Center Fre 2.440000000 GI
7.69				Start Fre 2.440000000 G
17.7				Stop Fr 2.440000000 G
37.7				CF Sto 8.000000 M <u>Auto</u> M
57.7				Freq Offs 0
67.7 Center 2.440000000 GH	lz #VBW 8.0 MHz		Span 0 Hz	
		51	status Align Now, All require	

BLE_1M_Ant1_2480

Ref Offset 1231 dB Ito dBiddiv Ref Offset 1231 dB Ref Offset 1231 dB Image 123 dB Ref Offset 123 dB Image 123 dB Ref Offset 1	Agilent Spectr	um Analyzer - Swept SA					
Ref Offset 12.31 dB Auto Tune 12.3 Image: Control of the set	Center F	RF 50 Ω DC req 2.480000000	GHz	1	ALIGN OFF #Avg Type: RMS	TYPE WARMAN	Frequency
123	10 dB/div		PNO: Fast +++ IFGain:Low	#Atten: 20 dB		DETPPPPP	Auto Tune
7.69 Start Freq 2.4800000 GHz 7.79 Stop Freq 2.4800000 GHz 37.7 Stop Freq 2.4800000 GHz 47.7 Stop Freq 2.4800000 GHz 67.7 Stop Freq 2.4800000 GHz 67.7 Stop Freq 2.4800000 GHz 67.7 Stop Freq 2.48000000 GHz 67.7 Stop Freq 2.4800000 GHz 67.8 Stop Freq 2.48000000 GHz 67.8 Stop Freq 2.48000000 GHz 67.8 Stop Freq 2.48000000 GHz 67.8 Stop Preq 2.48000000 GHz	-						
277 Stop Freq 2.48000000 Freq 377 CF Step 477 Stop Freq 477 Stop Freq 477 Stop Freq 477 Stop Freq 67 Stop Freq <t< td=""><td>-7.69</td><td></td><td></td><td></td><td></td><td></td><td>Start Freq 2.480000000 GHz</td></t<>	-7.69						Start Freq 2.480000000 GHz
47.7	-17.7						Stop Freq 2.480000000 GHz
677 Freq Offset 0 Hz 677 Image: Constraint of the state	-47.7						CF Step 8.000000 MHz <u>Auto</u> Man
Center 2.480000000 GHz Span 0 Hz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms (1001 pts)	-57.7						Freq Offset 0 Hz
			#VBW	8.0 MHz	Sweep 2		
	MSG						red

Dongguan DN Testing Co., Ltd.



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RL RF 50 Ω DC Center Freq 2.402000000	GHz PNO: Fast ++- Trig: Free Run IFGain:Low #Atten: 20 dB	ALIGN OFF #Avg Type: RMS	10:41:24 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P P P P P P	Frequency
Ref Offset 12.31 dB 10 dB/div Ref 22.31 dBm	Foaint.ow Pritein.20 db			Auto Tur
12.3				Center Fre 2.402000000 GH
-7.69				Start Fre 2.402000000 GF
-17.7				Stop Fre 2.402000000 GF
.37.7				CF Ste 8.000000 Mł Auto Ma
-57.7				Freq Offs 0 H
-67.7 Center 2.402000000 GHz Res BW 8 MHz	#VBW 8.0 MHz		Span 0 Hz 0.00 ms (1001 pts)	

BLE_2M_Ant1_2440

X RL	RF 50 Ω DC		SENSE:PULSE		ALIGN OFF	10:43:46 PM		Frequency
Center Freq 2.44000000		PN0: Fast +++ Trig: Free Run IFGain:Low #Atten: 20 dB		#Avg Type	why Type. NHS		123456 WWWWWW PPPPPP	
10 dB/div	Ref Offset 12.31 dB Ref 22.31 dBm							Auto Tui
12.3								Center Fr 2.44000000 GI
2.31								Start Fr 2.440000000 G
-17.7								Stop Fr 2.440000000 G
-37.7								CF St 8.000000 M Auto M
-47.7								Freq Offs
-67.7								0
Center 2. Res BW 8	440000000 GHz 3 MHz	#VBW	8.0 MHz		weep 2	S 0.00 ms (1	pan 0 Hz 1001 pts)	
MSG						Alian No		

BLE_2M_Ant1_2480

	rum Analyzer - Swept SA						
Center F	RF 50 Q DC	GHz	SENSE:PULSE	#Avg Type:		10:46:07 PM Jun 17, 2024 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 12.31 dB Ref 22.31 dBm	PNO: Fast ++ IFGain:Low	ḋ Trig:FreeRun #Atten:20 dB			TYPE WWWWWWW DET P P P P P P	Auto Tune
12.3							Center Freq 2.480000000 GHz
-7.69							Start Fred 2.480000000 GHz
-17.7							Stop Fred 2.480000000 GH:
-37.7							CF Step 8.000000 MH; <u>Auto</u> Mar
-57.7							Freq Offse 0 H;
	480000000 GHz					Span 0 Hz	
Res BW 8	3 MHz	#VBW	8.0 MHz	S	weep 20.	00 ms (1001 pts)	
MSG					STATUS 🗧	Align Now, All requ	ired

Dongguan DN Testing Co., Ltd.



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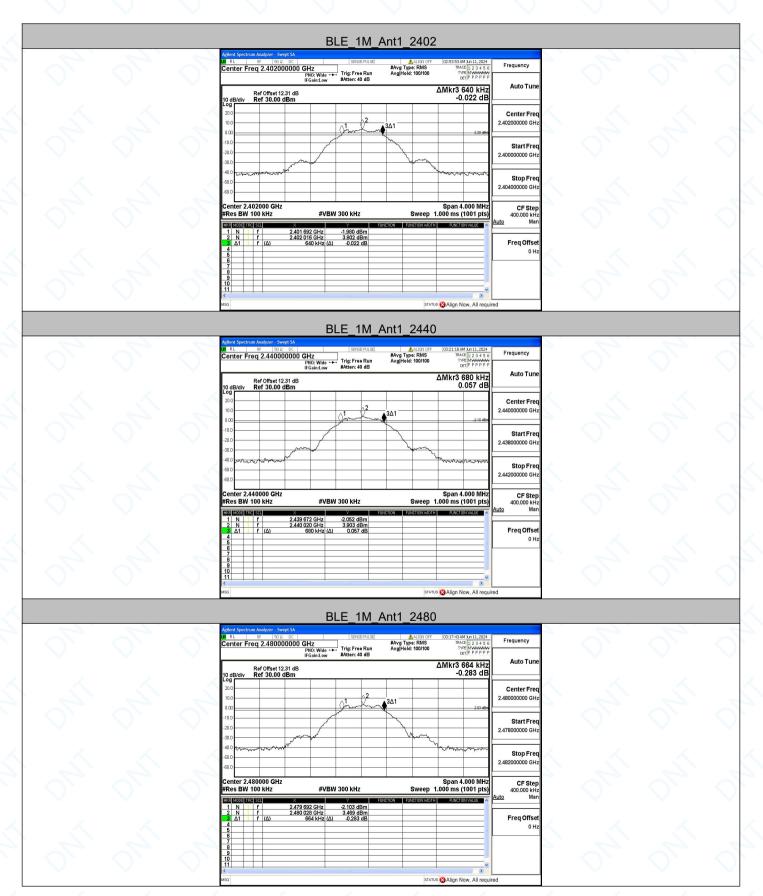
Appendix B: DTS Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
, , , , , , , , , , , , , , , , , , ,	1	2402	0.688	2401.676	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.668	2440.372	0.5	PASS
		2480	0.724	2479.660	2480.384	0.5	PASS
		2402	1.356	2401.344	2402.700	0.5	PASS
BLE_2M	Ant1	2440	1.324	2439.364	2440.688	0.5	PASS
	1	2480	1.312	2479.304	2480.616	0.5	PASS



Test Graphs

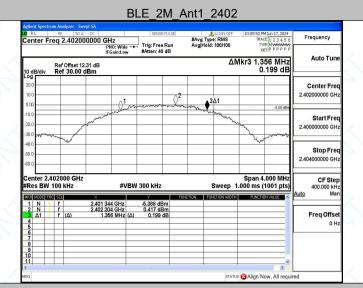


Dongguan DN Testing Co., Ltd.



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BLE_2M_Ant1_2440

RL RF 50		SENSE:PULSE	ALIGN OFF	10:24:39 PM Jun 17, 2024	Frequency
enter Freq 2.4400	PNO: Wide +++	Trig: Free Run #Atten: 40 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	Frequency
Ref Offset 0 dB/div Ref 30.00	12.31 dB	anten 40 de	Δ١	1kr3 1.324 MHz -0.048 dB	Auto Tun
00 20.0 10.0 0.00					Center Fre 2.440000000 GH
20.0 20.0		and a more that and a start	and respectively	-4.59 dBn	Start Fre 2.438000000 GH
10.0 50.0 50.0				49mm	Stop Fre 2.442000000 GH
enter 2.440000 GH Res BW 100 kHz	z #VBW 3	800 kHz	Sweep 1	Span 4.000 MHz .000 ms (1001 pts)	CF Ste 400.000 kH
IXR MODE TRC SCL	× 2.439 364 GHz	Y FUI -4.474 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3 Δ1 1 f (Δ) 4 5	2.440 516 GHz 1.324 MHz (Δ)	1.410 dBm -0.048 dB			Freq Offs 0 H
6 7 8 9 10					
				M.	

BLE_2M_Ant1_2480

Agilent Spect	rum Anal RF	yzer - Swa 50 ຄ	pt SA		or the	SE:PULSE		ALIGN OFF	10:00-101	MJun 17, 2024	
Center F			0000 GH					Type: RMS old: 100/100	TRA	CE 1 2 3 4 5 6 (PE MWWWWW	Frequency
			IFO	lO: Wide Gain:Low	#Atten:		CT BILL		1	TETPPPPP 312 MHz	Auto Tune
10 dB/div Log		offset 12 30.00 c							C	.368 dB	
20.0 10.0				1				3Δ1			Center Freq 2.480000000 GHz
-10.0	-			Wind	nam		marty	man.		-4.75 dBm	
-20.0 -30.0	m	<i>, , , , , , , , , ,</i>	and the second second					- Marken	North Contraction	www	Start Freq 2.478000000 GHz
-40.0		n ^{gi}				-	_	-	W		Stop Freq
-50.0											2.482000000 GHz
Center 2. #Res BW				#VE	W 300 KH	z		Sweep		I.000 MHz (1001 pts)	CF Step 400.000 kHz Auto Man
MKE MODE T	RC SCL		× 2.479 30	4 GHz	-4.680		UNCTION	FUNCTION WIDT	H FUNCT	ION VALUE	<u>Auto</u> Man
2 Ν 3 Δ1 4	f f	Δ)	2.480 13	2 GHZ 2 MHZ (J	1.253	dBm					Freq Offset 0 Hz
5 6 7 8 9											
9 10 11						-				×	
MSG								STAT	us 😢 Align N	low, All requi	ired

Dongguan DN Testing Co., Ltd.



Date: June 18, 2024 Appendix C: Maximum conducted output power

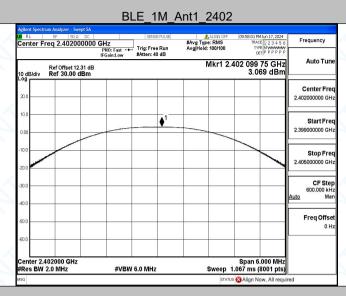
Test Result

Test Mode	Antenna	Freq(MHz)	Power [dBm]	Limit [dBm]	Verdict
		2402	3.07	≤30	PASS
BLE_1M	Ant1	2440	3.17	≤30	PASS
		2480	3.00	≤30	PASS
		2402	3.27	≤30	PASS
BLE_2M	Ant1	2440	3.44	≤30	PASS
		2480	3.20	≤30	PASS



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Test Graphs



BLE_1M_Ant1_2440

RL	RF 50 Ω DC		SENSE:PULSE	ALIGN OFF	10:01:54 PM Jun 17, 2024	Engeneration
Center F	req 2.4400000	PNO: Fast +++ IFGain:Low	Trig: Free Run #Atten: 40 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWANNAU DET P P P P P P	Frequency
10 dB/div	Ref Offset 12.31 d Ref 30.00 dBm			Mkr1 2.	440 269 25 GHz 3.166 dBm	Auto Tur
20.0						Center Fr 2.440000000 G
0.00			● ¹			Start Fr 2.437000000 G
-10.0						Stop Fr 2.443000000 G
-30.0						CF St 600.000 k Auto M
-50.0						Freq Offs 0
-60.0	440000 GHz				Span 6.000 MHz	
#Res BW	2.0 MHz	#VBW	6.0 MHz		1.067 ms (8001 pts) S 🖸 Alian Now, All requi	

BLE_1M_Ant1_2480

Agilent Spectru XI RL	m Analyzer - Swept SA RF 50 Ω DC		SENSE:PULSE	ALIGN OFF	10:05:41 PM Jun 17, 2024	
	eq 2.48000000) GHz PNO: Fast +++	Trig: Free Run	#Avg Type: RMS AvgHold: 100/100	TRACE 1 2 3 4 5 6 TYPE MUMUUM	Frequency
0 dB/div	Ref Offset 12.31 dB Ref 30.00 dBm	IFGain:Low	#Atten: 40 dB	Mkr1 2.	^{рет} РРРРРР 480 282 00 GHz 2.995 dBm	Auto Tun
20.0						Center Fre 2.48000000 GH
0.0			∳ ¹			Start Fre 2.477000000 Gł
20.0						Stop Fre 2.483000000 Gł
0.0						CF Ste 600.000 kl <u>Auto</u> M
0.0						Freq Offs 01
enter 2.4 Res BW 2	80000 GHz 2.0 MHz	#VBW	6.0 MHz	Sweep	Span 6.000 MHz 1.067 ms (8001 pts)	
G					s 🔀 Alian Now, All requi	red

Dongguan DN Testing Co., Ltd.



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RL RF 50Ω Center Freq 2.402000	DC SENSE:PULSE D000 GHz PNO: Fast →→→ Trig: Free Run IFGain:Low #Atten: 40 dB	ALIGN OFF #Avg Type: RMS Avg Hold: 100/100	10:10:01 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	Frequency
Ref Offset 12.3 0 dB/div Ref 30.00 dl	1 dB	Mkr1 2.	401 449 50 GHz 3.266 dBm	Auto Tur
og 20.0				Center Fre 2.402000000 GH
0.00	↓ 1			Start Fre 2.399000000 GH
				Stop Fro 2.405000000 GI
10.0				CF Ste 600.000 kl <u>Auto</u> M
50.0				Freq Offs
60.0				
Center 2.402000 GHz Res BW 2.0 MHz	#VBW 6.0 MHz	Sweep	Span 6.000 MHz 1.067 ms (8001 pts)	

BLE_2M_Ant1_2440

RL	RF 50 Ω DC		SENSE:PULSE	#Avg Type: RMS	10:24:49 PM Jun 17, 2024 TRACE 1 2 3 4 5 6	Frequency
Center F	req 2.44000000	PNO: Fast +++ IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Hold: 100/100	TYPE MWWWWW DET P P P P P	
10 dB/div	Ref Offset 12.31 dB Ref 30.00 dBm			Mkr1 2.	439 602 50 GHz 3.438 dBm	Auto Tun
20.0						Center Fre 2.440000000 GH
0.00			♦ ¹			Start Fre 2.437000000 GH
-10.0						Stop Fre 2.443000000 GH
-40.0						CF Ste 600.000 kH <u>Auto</u> Ma
-50.0						Freq Offse
-60.0						
Center 2.4 #Res BW	440000 GHz 2.0 MHz	#VBW	6.0 MHz	Sweep	Span 6.000 MHz 1.067 ms (8001 pts)	
ISG					s 🔀 Alian Now, All requi	red

BLE_2M_Ant1_2480

	rum Analyzer - Swept SA								
Center F	RF 50 Ω DC reg 2.480000000	GHz	1	PULSE	#Avg Type		TRAC	1 Jun 17, 2024 E 1 2 3 4 5 6	Frequency
	Ref Offset 12.31 dB	PNO: Fast +++ IFGain:Low	Atten: 40		Avg Hold:		480 378	75 GHz	Auto Tune
10 dB/div Log	Ref 30.00 dBm							02 dBm	
20.0									Center Freq 2.480000000 GHz
10.0 0.00				♦ ¹					Start Freq 2.477000000 GHz
-10.0									Stop Freq 2.483000000 GHz
-30.0					-				CF Step 600.000 kHz Auto Mar
-40.0									Freq Offse 0 H:
-60.0									
Center 2. #Res BW	480000 GHz 2.0 MHz	#VBW	6.0 MHz			Sweep	Span 6 1.067 ms (.000 MHz 8001 pts)	
MSG						STATU	s 😢 Align N	ow, All requi	red

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Appendix D: Maximum power spectral density

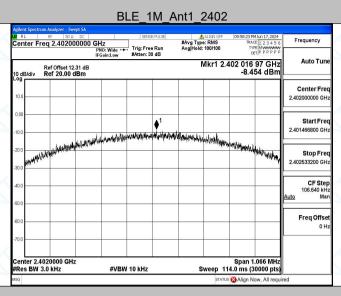
Test Result

Test Mode	Antenna	Freq(MHz)	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
2 4	- ~	2402	-8.45	≤8.00	PASS
BLE 1M	Ant1	2440	-8.44	≤8.00	PASS
· - ·		2480	-8.66	≤8.00	PASS
	1 1	2402	-11.10	≤8.00	PASS
BLE 2M	Ant1	2440	-11.35	≤8.00	PASS
~ ~ ~		2480	-11.36	≤8.00	PASS



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Test Graphs



BLE_1M_Ant1_2440

RL	RF 50 Ω		SENSE:PULSE	ALIGN (1Jun 17, 2024	Frequency
Center	Freq 2.440000	1000 GHz PN0: Wide +++	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/10	IO TYP	E 1 2 3 4 5 6 E M W///////	Trequency
		IFGain:Low	#Atten: 30 dB	Mkr1	2.439 984	23 GHz	Auto Tur
10 dB/div	Ref Offset 12.3 Ref 20.00 dE					39 dBm	
							Center Fre
10.0							2.440000000 G
0.00			▲ 1				Start Fr
10.0		الأناب والماري	uniternation in the state of a	We was have to ste			2.439454400 G
20.0	Marchald	WWWWWWWWWWWWW	Acceleration of the Acceleration	id . Andrewicking	Mysid William production	Max	01 F-
-30.0 mm	Harristin	histopherophicsaldolari				"THUM HAL	Stop Fr 2.440545600 G
40.0							CF St
50.0							109.120 k <u>Auto</u> M
							Freg Offs
-60.0							0
70.0							
Center 2	.4400000 GHz				Snan 1	091 MHz	
	V 3.0 kHz	#VBW	10 kHz	Sweep) 116.0 ms (3		
ASG				s	TATUS 🔀 Align No	ow, All requi	red

BLE_1M_Ant1_2480

ent Spectrum Analyzer - Swep RL RF 50 Ω	t SA	SENSE:PULSE	ALIGN OFF	10:06:05 PM Jun 17, 2024	
nter Freq 2.480000		Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P	Frequency
Ref Offset 12.3 dB/div Ref 20.00 dE	1 dB		Mkr1 2.	480 018 76 GHz -8.659 dBm	Auto Tu
					Center Fr 2.480000000 G
D	du Jundruder	¢1 Walannahali	han we have been and an		Start Fi 2.479438900 0
D D D D D D D D D D D D D D D D D D D	(Antonio and a second			and the property of the second se	Stop Fi 2.480561100 0
					CF S 112.220 Auto
)					Freq Off (
nter 2.4800000 GHz				Span 1.122 MHz	
es BW 3.0 kHz	#VBW	10 kHz		20.0 ms (30000 pts)	

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RL RF 50 Ω Senter Freq 2.402000	PNO: Wide 🕶	SENSE: PULSE Trig: Free Run #Atten: 30 dB	ALIGN OFF #Avg Type: RMS Avg Hold: 100/100	10:10:35 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	Frequency
Ref Offset 12.3 0 dB/div Ref 20.00 dB		sAtten: 30 dB	Mkr1 2.4	401 849 82 GHz -11.102 dBm	Auto Tur
10.0					Center Fre 2.402000000 GH
0.00		∳ ¹	4		Start Fre 2.400949100 G
	HAND A HAND A HAND AND A HAND A HAND	rayan karan ka Karan karan kara	n ar an Arrisk all and a fraction of the Arriver	n de fan in de fan d	Stop Fro 2.403050900 GI
10.0					CF Ste 210.180 ki Auto M
50.0					Freq Offs
70.0					
enter 2.402000 GHz		/ 10 kHz		Span 2.102 MHz 2.0 ms (30000 pts)	

BLE_2M_Ant1_2440

	trum Analyzer - Swept SA						
X RL	RF 50 Ω DC		SENSE:PULSE	ALIGN OFF	10:25:23 PM Jun 17, 2024	Frequency	
Center Freq 2.440000000		0 GHz PNO: Wide +++	DGHz PNO: Mide +++ Trig: Free Run		TRACE 1 2 3 4 5 6 TYPE MWWWWW	requericy	
		IFGain:Low	#Atten: 30 dB	Avg Hold: 100/100	DETPPPPP	Auto Tun	
	Ref Offset 12.31 dB Mkr1 2.440 198 49 GHz						
10 dB/div	Ref 20.00 dBm	,			-11.351 dBm		
						Center Fre	
10.0						2.440000000 GH	
0.00						Start Fre	
				1		2.438973900 GH	
10.0			dia in Castron a	Julia and		2.436973900 GH	
	the second second	Lindentering	all a second and a second and a second	The interaction of the second at the	สมมา		
-20.0	A STATISTICS OF A STATISTICS	Mar I.			PROVINCE AND A DATE OF	Stop Fre	
All	Wheel and the				and the second	2.441026100 GH	
30.0							
						CF Ste	
40.0						205.220 kH	
						<u>Auto</u> Ma	
-50.0							
						Freq Offse	
-60.0				+ + +		0	
-70.0				+ + +			
Center 2	.440000 GHz				Span 2.052 MHz		
	/ 3.0 kHz	#VBW	10 kHz	Sweep 2	18.0 ms (30000 pts)		
MSG				STAT	us 🔀 Alian Now, All requi	red	

BLE_2M_Ant1_2480

Agilent Spectrum Analyzer - Swept SA											
Cen		RF 50 Ω eq 2.48000	DC 0000 GH	łz		E:PULSE	#Avg Typ		TRAC	1)un 17, 2024 E 1 2 3 4 5 6	Frequency
	PRO-Water Trig: Free Run If Gainstow Avgiteid: 100/100 Trig: PPPPP Ref Offset 12.31 dB 10 dB/div Ref 20.00 dBm Mkr1 2.480 199 06 GHZ							Auto Tune			
Log 10.0											Center Freq 2.480000000 GHz
0.00					while the days	Hoberstell	1				Start Freq 2.478983200 GHz
-20.0 -30.0	ana di	boull-provident data	wienvivini	,	hand m a daile	t in the two in the second	a lankanininini	hite alig	lingen allefelfeningen je	internations in the	Stop Freq 2.481016800 GHz
-40.0											CF Step 203.360 kHz Auto Man
-60.0											Freq Offset 0 Hz
		80000 GHz 3.0 kHz		#VBW	10 kHz		s	weep	Span 2 216.0 ms (3	.034 MHz	
MSG											

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