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TEST REPORT

Remote Control **Product**

PHILIPS Trade mark RF510B Model/Type reference

N/A **Serial Number**

EED32O81344701 Report Number

FCC ID 2A9T3-RF510B Date of Issue Mar. 28, 2023

Test Standards 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Shenzhen C&D Electronics Co., Ltd 9 floor, 9th A building, Baoneng Science and Technology Park, Qing Xiang Road No. 1, Longhua District, Shenzhen, Guangdong, China

Prepared by:

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3 Version

Version No.	Date		Description		
00	00 Mar. 28, 2023		Original		
	(47)				













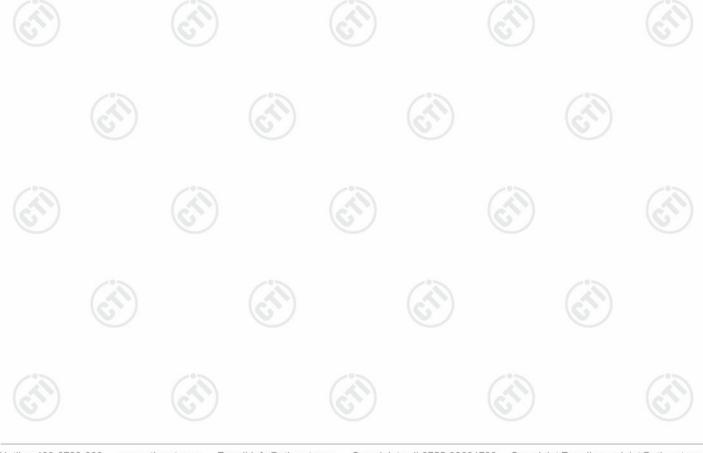
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4 Test Summary

Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







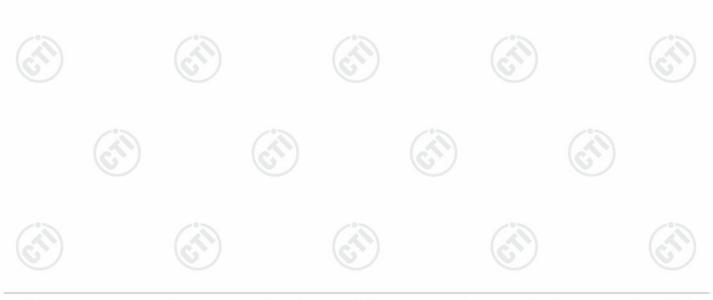
5 General Information

5.1 Client Information

Applicant:	Shenzhen C&D Electronics Co ., Ltd			
Address of Applicant:	9 floor, 9th A building, Baoneng Science and Technology Park, Qing Xiang Road No. 1, Longhua District , Shenzhen,Guangdong,China			
Manufacturer:	Shenzhen C&D Electronics Co ., Ltd			
Address of Manufacturer:	9 floor, 9th A building, Baoneng Science and Technology Park, Qing Xiang Road No. 1, Longhua District , Shenzhen,Guangdong,China			
Factory:	Shenzhen C&D Electronics Co ., Ltd			
Address of Factory:	9 floor, 9th A building, Baoneng Science and Technology Park, Qing Xiang Road No. 1, Longhua District , Shenzhen, Guangdong, China			

5.2 General Description of EUT

Product Name:	Remote Control		
Model No.:	RF510B	(i)	
Trade mark:	PHILIPS	(6,1)	(6)
Product Type:	Portable		
Operation Frequency:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Transfer Rate:	⊠ 1Mbps	(6,72)	(5,72)
Number of Channel:	40		
Antenna Type:	PCB Antenna		
Antenna Gain:	2.84dBi		
Power Supply:	DC 3.0V	(6:47)	(2)
Test Voltage:	DC 3.0V		
Sample Received Date:	Dec. 28, 2022		
Sample tested Date:	Dec. 28, 2022 to Jan. 13	3, 2023	· ·





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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

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

5.3 Test Configuration

EUT Test Software Settings:						
Test Software of EUT: N/A						
EUT Power Grade:	Class2 (Pow selected)	Class2 (Power level is built-in set parameters and cannot be changed an selected)				
Use test software to transmitting of the E	set the lowest frequency UT.	, the middle freque	ncy and the highest	frequency keep		
Test Mode	Modulation	Rate	Channel	Frequency(MHz)		
Mode a	GFSK	1Mbps	CH0	2402		
Mode b	GFSK	1Mbps	CH19	2440		
Mode c	GFSK	1Mbps	CH39	2480		













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5.4 Test Environment

	Operating Environment	t:				
	Radiated Spurious Emi	ssions:				
19	Temperature:	22~25.0 °C		(41)		(21)
1	Humidity:	50~55 % RH		(0)		6
	Atmospheric Pressure:	1010mbar				
	RF Conducted:					
	Temperature:	22~25.0 °C	(20)		(20)	
	Humidity:	50~55 % RH	(0,)		(0,)	
	Atmospheric Pressure:	1010mbar				

5.5 Description of Support Units

The EUT has been tested with independent.

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164







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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE newer conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
2	Dadiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
10%		3.4dB (18GHz-40GHz)
57	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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6 Equipment List

RF test system						
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Communication tset set	R&S	CMW500	107929	07-06-2022	07-05-2023	
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023	
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023	
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023	
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023	
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	(H)	(31	

3M Semi-anechoic Chamber (2)- Radiated disturbance Test							
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date		
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025		
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023		
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2023		
Multi device Controller	maturo	NCD/070/10711112					
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024		
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/17/2021	04/16/2024		
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2022	06/19/2023		

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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					100
		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-01-2022	02-28-2023
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023
Preamplifier	EMCI	EMC001330	980563	04-13-2022	04-12-2023
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	02-21-2022	02-20-2023
Fully Anechoic Chamber	TDK	FAC-3	(0)	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		(
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		
Cable line	Times	EMC104-NMNM-1000	SN160710	(<u> </u>
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		(8
Cable line	Times	HF160-KMKM-3.00M	393493-0001		













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7 Test results and Measurement Data

7.1 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.

EUT Antenna: Please see Internal photos

The antenna is PCB antenna. The best case gain of the antenna is 2.84dBi.







7.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10 2013	
Test Setup:		(3)
	Control Congular Power Supply Power Foot Table RF test System System Instrument Table	
	Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure:	 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 	(C)
Limit:	30dBm	_°>
Test Mode:	Refer to clause 5.3	(2)
Test Results:	Refer to Appendix BLE	





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7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Control Computer Actenna portity Actenna portity Actenna portity Actenna portity Attenuator Temperature cabnet Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix BLE

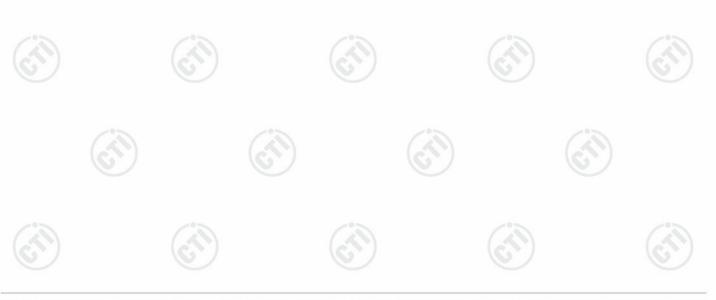






7.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Control Control Power Supply Power Temperature Casnet	RF test - System Instrument
	 Remark: Offset=Cable loss+ attenua	ation factor.
Test Procedure:	within the RBW.	S bandwidth.
Limit:	≤8.00dBm/3kHz	
Test Mode:	Refer to clause 5.3	-05
Test Results:	Refer to Appendix BLE	

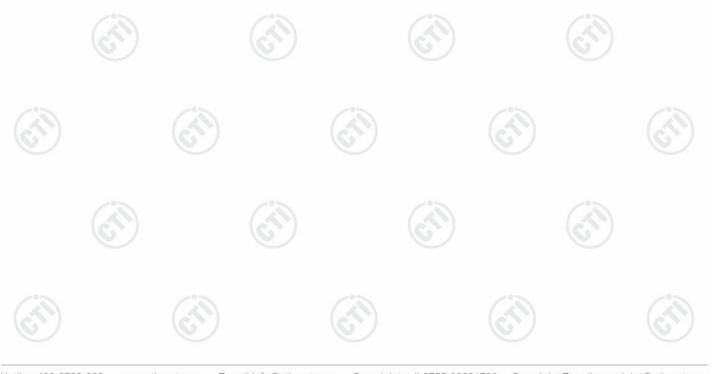






7.5 Band Edge measurements and Conducted Spurious Emission

	Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Ī	Test Method:	ANSI C63.10 2013					
5000	Test Setup:	Control Congular Power Supply Power Temperature Cabriet Table RF test System System Instrument					
1		Remark: Offset=Cable loss+ attenuation factor.					
	Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.					
	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 Mode:	Refer to clause 5.3					
	Test Results:	Refer to Appendix BLE					

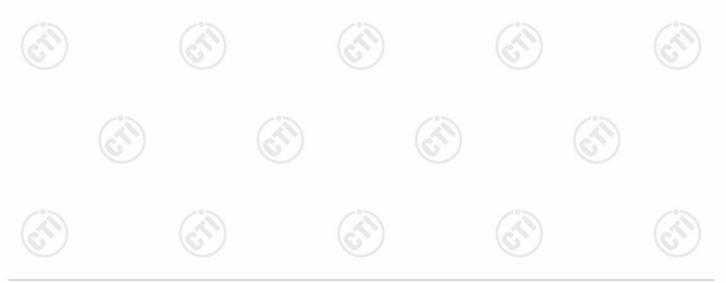






7.6 Radiated Spurious Emission & Restricted bands

16.7	165		183		163	, , , , , , , , , , , , , , , , , , , ,			
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205					
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark			
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz	3MHz	Peak			
			Peak	1MHz	10kHz	Average			
Limit:	l Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m			
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/0>	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30			
	1.705MHz-30MHz		30	-	-	30			
	30MHz-88MHz		100	40.0	Quasi-peak	3			
	88MHz-216MHz		150	43.5	Quasi-peak	3			
	216MHz-960MHz	6	200	46.0	Quasi-peak	3			
	960MHz-1GHz	/	500	54.0	Quasi-peak	3			
	Above 1GHz		500	54.0	Average	3			
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the i	maximum est. This p	permitted ave	erage emission			





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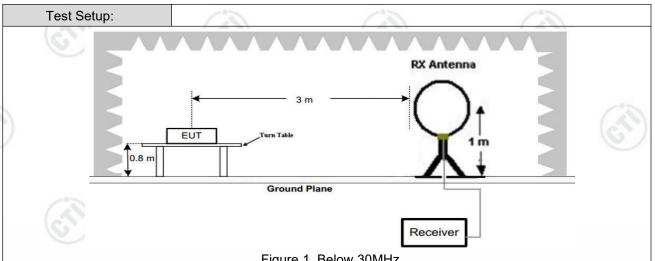
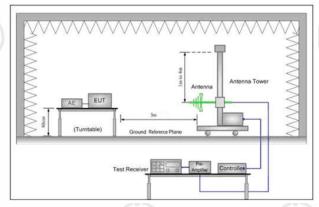


Figure 1. Below 30MHz



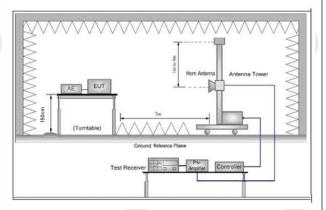


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

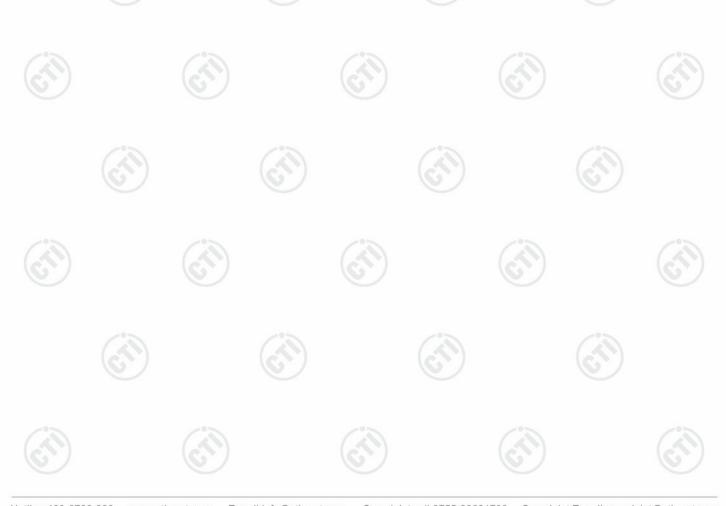
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- The EUT was set 3 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.
	d.	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.
	e.	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f.	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.
	g.	Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
	h.	The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i.	Repeat above procedures until all frequencies measured was complete.
Test M	lode: R	efer to clause 5.3
Test R	esults: Pa	ass
		7.2

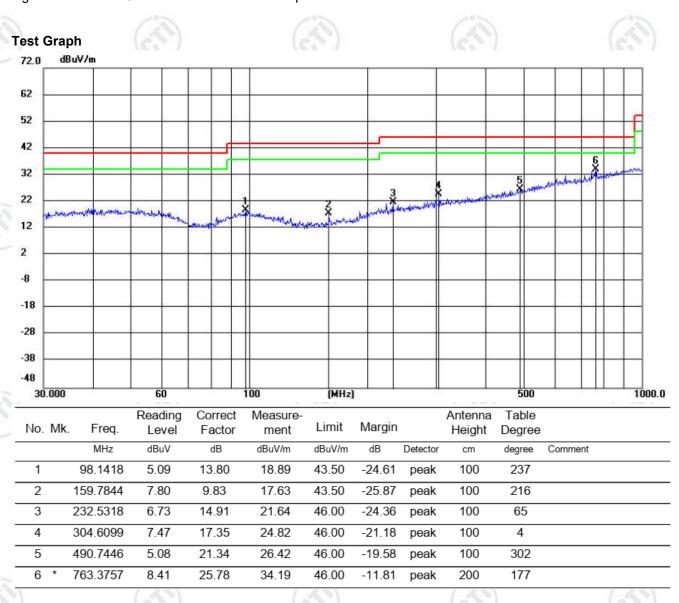




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Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case highest channel of GFSK was recorded in the report.









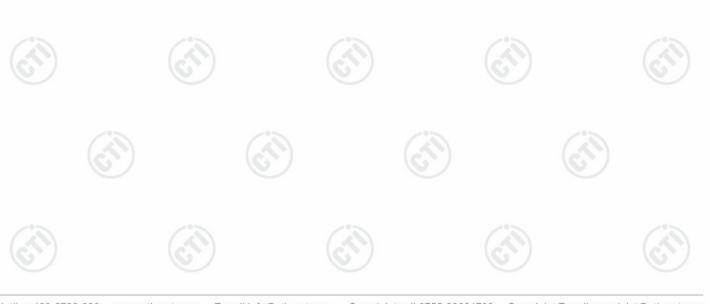








Test Graph dBuV/m 72.0 62 52 6 32 22 12 2 -8 -18 -28 -38 -48 30.000 60 100 (MHz) 500 1000.0 Reading Correct Measure-Antenna Table No. Mk. Freq. Limit Margin Height Level Factor ment Degree MHz dBuV dΒ dBuV/m dB dBuV/m Detector cm degree Comment 31.9545 1 10.89 13.10 23.99 40.00 -16.01 peak 100 9 2 76.2442 100 356 12.16 9.89 22.05 -17.95 40.00 peak 3 109.0286 5.38 12.76 18.14 43.50 -25.36 100 356 peak 223.7333 4 6.72 14.60 21.32 46.00 -24.68 peak 100 356 5 344.3855 5.65 18.20 23.85 46.00 -22.15 100 125 peak 6 766.0571 7.08 25.83 32.91 46.00 -13.09 100 168 peak







Radiated Spurious Emission above 1GHz:

Mode	:	Bl	E GFSK Trai	nsmitting		Channel:		2402 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1295.2295	1.05	39.83	40.88	74.00	33.12	Pass	Н	PK
2	1982.4982	4.45	38.69	43.14	74.00	30.86	Pass	Н	PK
3	4803.1202	-16.23	71.87	55.64	74.00	18.36	Pass	Н	PK
4	7207.2805	-11.83	68.64	56.81	74.00	17.19	Pass	Н	PK
5	9609.4406	-7.38	60.42	53.04	74.00	20.96	Pass	Н	PK
6	14388.7593	1.03	47.34	48.37	74.00	25.63	Pass	Н	PK
7	4805.1203	-16.23	66.18	49.95	54.00	4.05	Pass	Н	AV
8	7206.2804	-11.83	63.04	51.21	54.00	2.79	Pass	Н	AV
9	1310.6311	1.09	39.51	40.60	74.00	33.40	Pass	V	PK
10	1949.2949	4.29	39.31	43.60	74.00	30.40	Pass	V	PK
11	4803.1202	-16.23	68.11	51.88	74.00	22.12	Pass	V	PK
12	7206.2804	-11.83	69.03	57.20	74.00	16.80	Pass	V	PK
13	9607.4405	-7.37	56.71	49.34	74.00	24.66	Pass	V	PK
14	12008.6006	-5.30	57.07	51.77	74.00	22.23	Pass	V	PK
15	7207.2805	-11.83	62.55	50.72	54.00	3.28	Pass	V	AV

Mode	e:	BL	E GFSK Trai	nsmitting		Channel:		2440 MHz	7
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1345.2345	1.21	39.17	40.38	74.00	33.62	Pass	Н	PK
2	2000.1	4.55	39.36	43.91	74.00	30.09	Pass	Н	PK
3	4880.1253	-16.21	68.85	52.64	74.00	21.36	Pass	Н	PK
4	7320.288	-11.65	69.55	57.90	74.00	16.10	Pass	Н	PK
5	9759.4506	-7.52	60.53	53.01	74.00	20.99	Pass	Н	PK
6	14411.7608	1.05	47.39	48.44	74.00	25.56	Pass	Н	PK
7	7320.288	-11.65	63.98	52.33	54.00	1.67	Pass	Н	AV
8	1190.019	0.80	40.74	41.54	74.00	32.46	Pass	V	PK
9	1844.8845	3.62	39.04	42.66	74.00	31.34	Pass	V	PK
10	4879.1253	-16.21	67.86	51.65	74.00	22.35	Pass	V	PK
11	7319.288	-11.65	68.57	56.92	74.00	17.08	Pass	V	PK
12	9759.4506	-7.52	58.45	50.93	74.00	23.07	Pass	V	PK
13	12198.6132	-5.13	55.10	49.97	74.00	24.03	Pass	V	PK
14	7321.2881	-11.65	62.17	50.52	54.00	3.48	Pass	V	AV











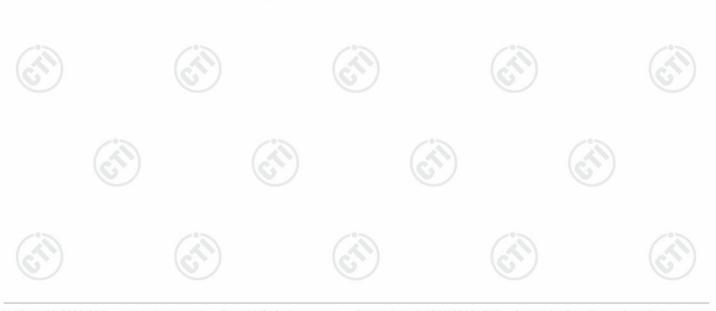


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	100		100					9.%	
Mode	:	E	BLE GFSK Trai	nsmitting		Channel:		2480 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1245.2245	0.92	39.65	40.57	74.00	33.43	Pass	Н	PK
2	1926.4926	4.16	37.98	42.14	74.00	31.86	Pass	Н	PK
3	4960.1307	-15.97	70.86	54.89	74.00	19.11	Pass	Н	PK
4	7440.296	-11.34	69.48	58.14	74.00	15.86	Pass	Н	PK
5	9921.4614	-7.10	60.07	52.97	74.00	21.03	Pass	Н	PK
6	14407.7605	1.11	47.00	48.11	74.00	25.89	Pass	Н	PK
7	4961.1307	-15.97	66.41	50.44	54.00	3.56	Pass	Н	AV
8	7441.2961	-11.34	62.90	51.56	54.00	2.44	Pass	Н	AV
9	1344.0344	1.20	39.15	40.35	74.00	33.65	Pass	V	PK
10	1946.4946	4.27	38.11	42.38	74.00	31.62	Pass	V	PK
11	4959.1306	-15.98	67.15	51.17	74.00	22.83	Pass	V	PK
12	7439.296	-11.34	67.87	56.53	74.00	17.47	Pass	V	PK
13	9919.4613	-7.10	57.63	50.53	74.00	23.47	Pass	V	PK
14	12398.6266	-4.70	55.19	50.49	74.00	23.51	Pass	V	PK
15	7440.296	-11.34	61.90	50.56	54.00	3.44	Pass	V	AV

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

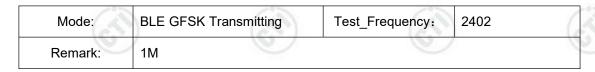




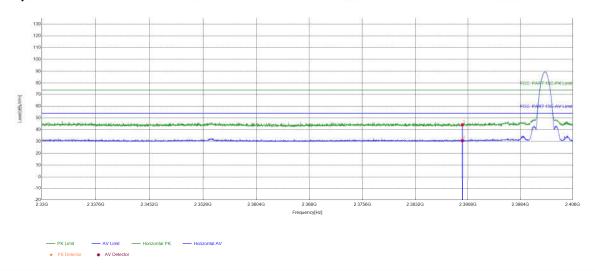


Restricted bands:

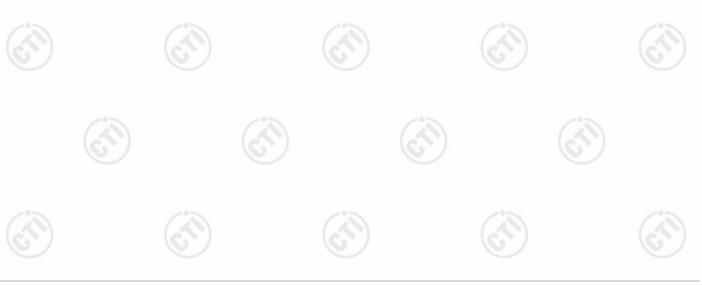
Test plot as follows:



Test Graph



9	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	5.77	38.44	44.21	74.00	29.79	PASS	Horizontal	PK
	2	2390	5.77	24.96	30.73	54.00	23.27	PASS	Horizontal	AV

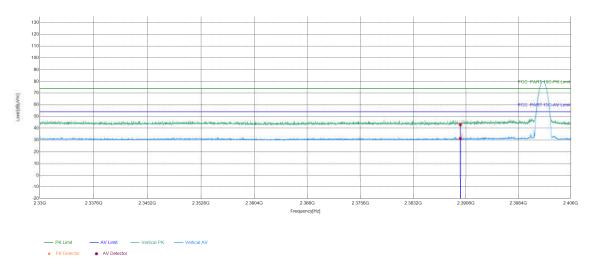




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Mode:	BLE GFSK Transmitting	Test_Frequency:	2402
Remark:	1M		

Test Graph



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2390	5.77	37.22	42.99	74.00	31.01	PASS	Vertical	PK
	2	2390	5.77	25.52	31.29	54.00	22.71	PASS	Vertical	AV

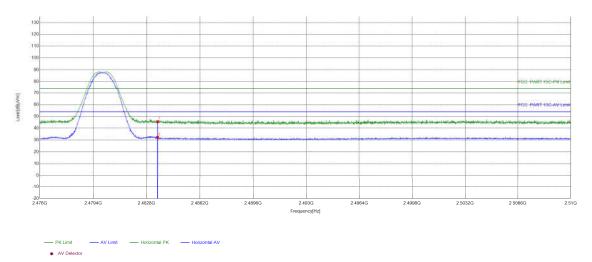




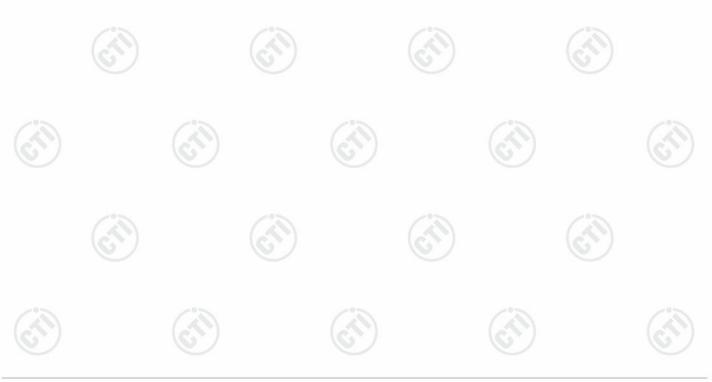


Mode:	BLE GFSK Transmitting	Test_Frequency:	2480
Remark:	1M		

Test Graph



	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	39.02	45.59	74.00	28.41	PASS	Horizontal	PK
	2	2483.5	6.57	25.69	32.26	54.00	21.74	PASS	Horizontal	AV

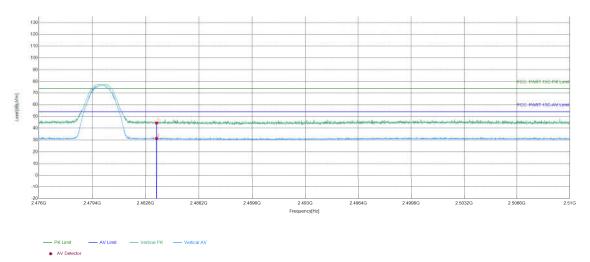




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Mode:	BLE GFSK Transmitting	Test_Frequency:	2480	
Remark:	1M			

Test Graph



	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
9	1	2483.5	6.57	37.92	44.49	74.00	29.51	PASS	Vertical	PK
	2	2483.5	6.57	24.77	31.34	54.00	22.66	PASS	Vertical	AV

Note

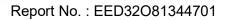
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

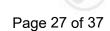
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor











Appendix A







Refer to Appendix: Bluetooth LE of EED32O81344701

















































































