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TEST REPORT

Product Over-Ear Bluetooth Headset

Trade mark **VOKALEN** Model/Type reference : Hyper GO

Serial Number : N/A

Report Number : EED32R80535201

FCC ID MV3-CMT009 Date of Issue : May 14, 2025

Test Standards : 47 CFR Part 15 Subpart C

Test result PASS

Prepared for:

Country Mate Technology Ltd 5/F, Blk E, Hing Yip Center. 31 Hing Yip Street Kwun Tong, KIn N/A Hong Kong

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Firever. Li Compiled by Reviewed by: Keven Tan avon Ma Date: Aaron Ma Report Seal

Check No.: 6808140425

Frazer Li

May 14, 2025



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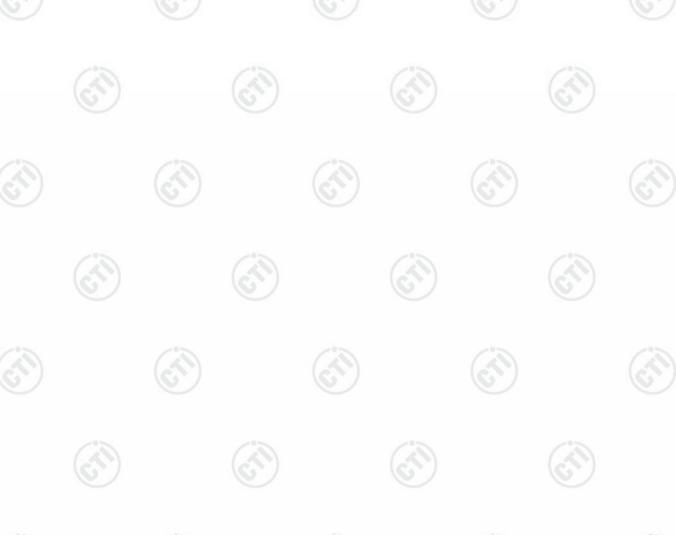


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2 Version

Version No.	Date	Description
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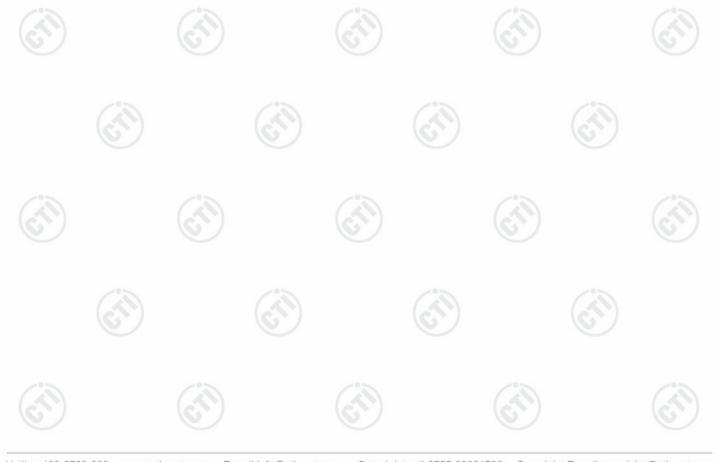




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3 Test Summary

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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	PASS
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





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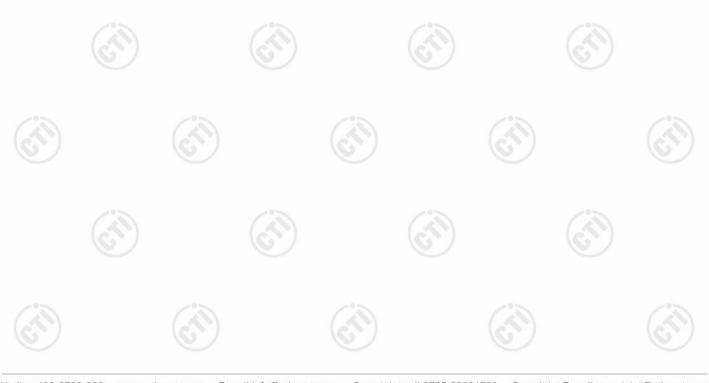
4 General Information

4.1 Client Information

Applicant:	Country Mate Technology Ltd
Address of Applicant:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street Kwun Tong, Kln N/A Hong Kong
Manufacturer:	Country Mate Technology Ltd
Address of Manufacturer:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street Kwun Tong, Kln N/A Hong Kong

4.2 General Description of EUT

Product Name:	Over-Ear B	luetooth Heads	et		(3)	
Model No.:	Hyper Go		(6,2)		(0,2)	
Trade mark:	VOKALEN					
Product Type:	☐ Mobile	⊠ Portable	☐ Fix Locati	on		
Operation Frequency:	2402MHz~2	2480MHz		·		(*)
Modulation Type:	GFSK	(25)		(27)		(6/7)
Transfer Rate:	⊠ 1Mbps	⊠ 2Mbps				
Number of Channel:	40					
Antenna Type:	PCB Anten	na	-10		-05	
Antenna Gain:	-0.38dBi					
Davis a Commbu	Adapter:	DC 5V				
Power Supply:	Battery:	DC 3.7V				
Test Voltage:	DC 5V					
Sample Received Date:	Apr. 17, 20	25	9			
Sample tested Date:	Apr. 17, 20	25 to Apr. 26, 20	025	(6,)		(0,





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100						-0-	
Operation F	requency eac	h of channe	I				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note:

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

4.3 Test Configuration

EUT Test Software	Settings:						
Test Software:		BT_Tool					
EUT Power Grade:		Default (Po selected)	Default (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.							
Test Mode	Modu	ılation	Rate	Channel	Frequency(MHz)		
Mode a	GF	SK	1Mbps	CH0	2402		
Mode b	GF	SK	1Mbps	CH19	2440		
Mode c	ode c GFSK		1Mbps	CH39	2480		
Mode d	GFSK		GFSK 2Mbps		2402		
Mode e	GF	SK	2Mbps	CH19	2440		
Mode f	GF	SK	2Mbps	CH39	2480		





4.4 Test Environment

Oper	rating Environment	:					
Radi	ated Spurious Emi	ssions:					
Temp	perature:	22~25.0 °C	(21)		(41)		(41)
Humi	idity:	50~55 % RH	(0)		(0)		6
Atmo	spheric Pressure:	1010mbar					
Cond	ducted Emissions:						
Temp	perature:	22~25.0 °C		(2)		(30)	
Humi	idity:	50~55 % RH		(0,)		(0,)	
Atmo	spheric Pressure:	1010mbar					
RF C	onducted:						
Temp	perature:	22~25.0 °C			(3)		
Humi	idity:	50~55 % RH	(6.2)		(6,7,2)		(6,2)
Atmo	spheric Pressure:	1010mbar					

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-	FCC&CE	CTI
		0D8GXYQ2X10		

4.6 Test Location

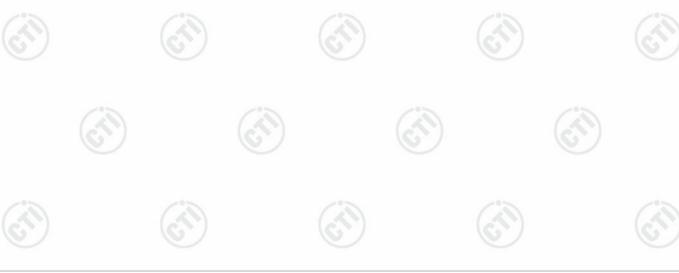
All tests were performed at:

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

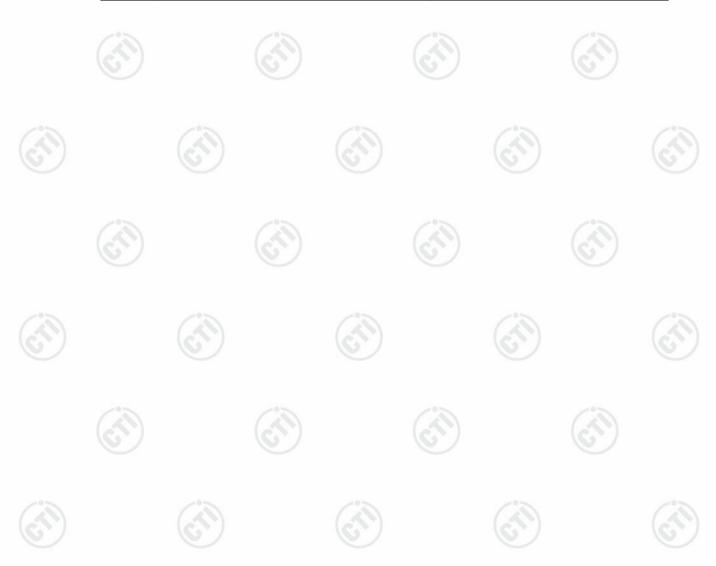






4.7 Measurement Uncertainty (95% confidence levels, k=2)

W. D	1.09.39.1	P. W. J. 120, W. J.
No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
0	DE name and desired	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
3 Radiated Spurious emission test		3.3dB (9kHz-30MHz)
	Dadieted Courieus amiesian teet	4.3dB (30MHz-1GHz)
	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
(1)		3.4dB (18GHz-40GHz)
4	Conduction online	3.5dB (9kHz-150kHz)
4	Conduction emission	3.1dB (150kHz-30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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5 Equipment List

	RF test system								
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025				
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-02-2024	09-01-2025				
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025				
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025				
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025				
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025				
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	(ii)	- (3				
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026				

Conducted disturbance Test							
		Serial		Cal. date	Cal. Due date		
Equipment	Manufacturer	Model No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	04-08-2025	04-07-2026		
Temperature/ Humidity Indicator	Defu	TH128	1	04-25-2024	04-24-2025		
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025		
Barometer	changchun	DYM3	1188				
Test software	Fara	EZ-EMC	EMC-CON 3A1.1				
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025		
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025		



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			Serial	Cal. date	Cal. Due date	
Equipment	Manufacturer	Model No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)	
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025	
Receiver	R&S	ESCI7	100938- 003	09/07/2024	09/06/2025	
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025	
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/07/2025	04/06/2026	
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025	
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026	
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D- 1869	04/07/2025	04/06/2026	
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026	
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025	
Test software	Fara	EZ-EMC	EMEC- 3A1-Pre			
Cable line	Fulai(7M)	SF106	5219/6A	(<u></u>	
Cable line	Fulai(6M)	SF106	5220/6A			
Cable line	Fulai(3M)	SF106	5216/6A		/	
Cable line	Fulai(3M)	SF106	5217/6A	(6,2)	(6	













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		3M full-anechoic	Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	(01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-12-2025	04-11-2026
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-03-2025	03-02-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Communication test set	R&S	CMW500	102898	01-04-2025	01-03-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-31-2025	03-30-2026
RSE Automatic	JS Tonscend	JS36-RSE	V4.0.0.0		-
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	G.	<u> </u>
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		-63
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	(3	
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		

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





6 Test results and Measurement Data

6.1 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 -0.38dBi.





Test Mode:

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Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sv	weep time=auto	1				
Limit:	- (0411)	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 logarithm	of the frequency.	(6)				
Test Procedure:	1) The mains terminal disturb	Ground Reference Plane					
Test i locedure.	room. 2) The EUT was connected Impedance Stabilization Not impedance. The power of connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the rea. 3) The tabletop EUT was planground reference plane. Are placed on the horizontal ground reference with the EUT shall be 0.4 m of the vertical ground reference reference plane. The LISN unit under test and bond mounted on top of the ground reference.	to AC power source etwork) which provide cables of all other N 2, which was bondes the LISN 1 for the was used to connect ating of the LISN was ced upon a non-metand for floor-standing a cound reference plane, h a vertical ground refrom the vertical ground plane was bonded I 1 was placed 0.8 m ded to a ground reference of the plane was placed 0.8 m ded to a ground reference of the plane was placed 0.8 m ded to a ground reference of the plane was placed 0.8 m ded to a ground reference of the plane was placed 0.8 m ded to a ground reference of the provided the	e through a LISN 1 s a 50Ω/50μH + 5Ω units of the EUT ed to the ground reference plane. The unit being measurangement, the EUT ed to the horizontal efform the boundary ference plane for				

report.

and associated equipment was at least 0.8 m from the LISN 2.

and all of the interface cables must be changed according to

All modes were tested, only the worst case mode d was recorded in the

ANSI C63.10: 2013 on conducted measurement.

5) In order to find the maximum emission, the relative positions of equipment

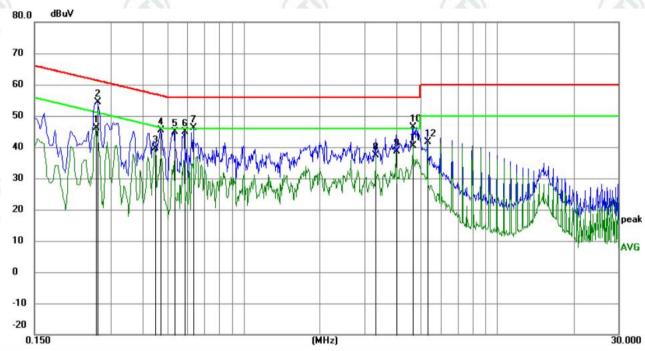


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Test Results:	Pass
i col i leouilo.	F 435

Measurement Data

Live line:



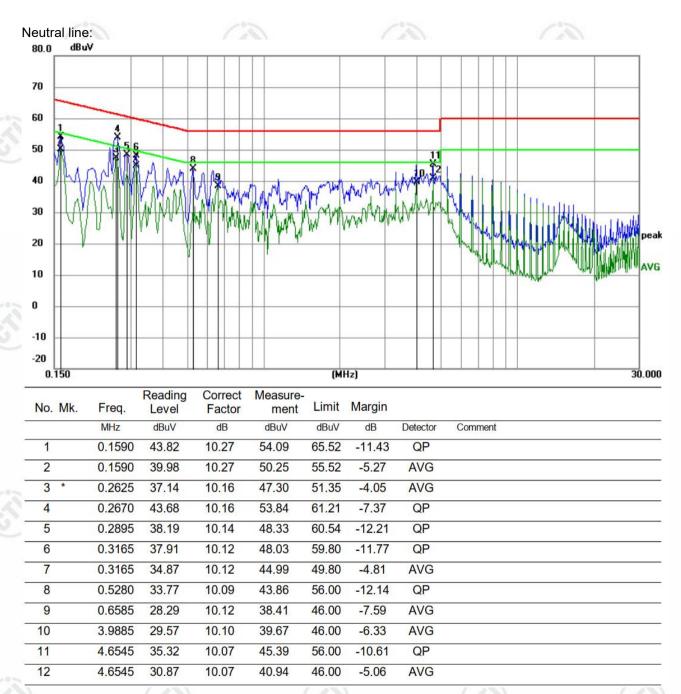
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.2625	36.01	10.16	46.17	51.35	-5.18	AVG		
2		0.2670	44.21	10.16	54.37	61.21	-6.84	QP		
3		0.4470	29.54	10.09	39.63	46.93	-7.30	AVG		
4		0.4695	35.41	10.08	45.49	56.52	-11.03	QP		
5		0.5325	34.88	10.09	44.97	56.00	-11.03	QP		
6		0.5865	34.74	10.10	44.84	56.00	-11.16	QP		
7		0.6360	36.06	10.11	46.17	56.00	-9.83	QP		
8		3.3270	27.22	10.12	37.34	46.00	-8.66	AVG		
9		3.9885	28.60	10.10	38.70	46.00	-7.30	AVG		
10		4.6545	36.38	10.07	46.45	56.00	-9.55	QP		
11		4.6545	30.31	10.07	40.38	46.00	-5.62	AVG		
12		5.3205	31.60	10.06	41.66	50.00	-8.34	AVG		

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.







Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.









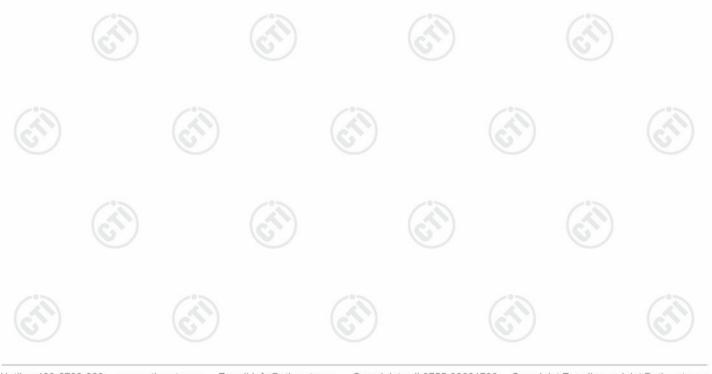






6.3 Maximum Conducted Output Power

47 CFR Part 15C Section 15.247 (b)(3)						
ANSI C63.10 2013						
	(3)					
Control Compular Power Supply Power Supply Table RF test System Instrument Instrument						
Remark: Offset=Cable loss+ attenuation factor.						
 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW 	(C.)					
 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. 						
30dBm	/°>					
Refer to clause 5.3						
Refer to Appendix A						
	RF test System Instrument Remark: Offset=Cable loss+ attenuation factor. 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. 30dBm Refer to clause 5.3					





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6.4 DTS Bandwidth

10.0	160
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Control Computer Power ports) Power ports Table RF test System Instrument 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 A

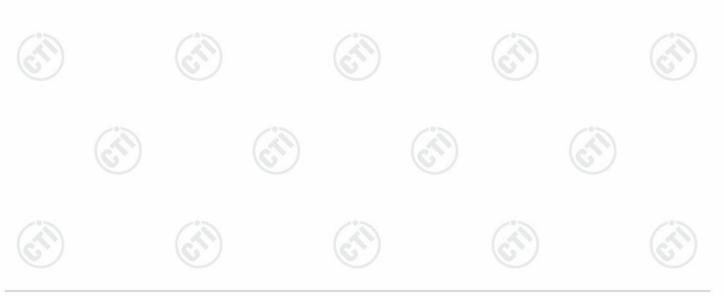






6.5 Maximum Power Spectral Density

	The state of the s	
Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Computer Power Supply TEMPERATURE CABRIET Table	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	
Test Results:	Refer to Appendix A	







6.6 Band Edge measurements and Conducted Spurious Emission

	1000	
	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
	Test Method:	ANSI C63.10 2013
27000	Test Setup:	Control Control Control Power Supply Power Supply Table RF test System System Instrument
		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.
270	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 A

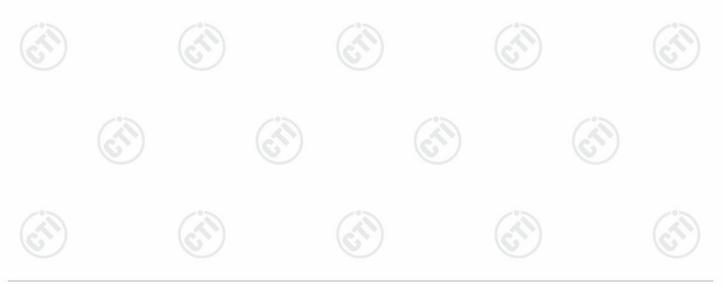






6.7 Radiated Spurious Emission & Restricted bands

15000	47 CED Doub 45 C Souti		(C)		- (e))
Test Requirement:	47 CFR Part 15C Secti	on i	5.209 and 15	.205			
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	_	
Receiver Setup:	Frequency	9	Detector	RBW	VBW		Remark
	0.009MHz-0.090MH	Z	Peak	10kHz	30kHz	z	Peak
	0.009MHz-0.090MH	Z	Average	10kHz	30kHz	Z	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	z	Quasi-peak
	0.110MHz-0.490MH	Z	Peak	10kHz	30kHz	z	Peak
	0.110MHz-0.490MH	Z	Average	10kHz	30kHz	Z	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	z	Quasi-peak
	30MHz-1GHz	z Quasi-pea		100 kH	z 300kH	z	Quasi-peak
			Peak	1MHz	3MHz	<u>, </u>	Peak
	Above 1GHz	-)	Peak	1MHz	10kHz	z	Average
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark		Measureme distance (m
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(8	0	30
	1.705MHz-30MHz		30	-			30
	30MHz-88MHz		100	40.0	Quasi-pe	ak	3
	88MHz-216MHz		150	43.5	Quasi-pe	ak	3
	216MHz-960MHz		200	46.0	Quasi-pe	ak	3
	960MHz-1GHz	\mathcal{I}	500	54.0	Quasi-pe	ak	3
	Above 1GHz		500	54.0	Average	Э	3
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d equip	dB above the i oment under to	maximum est. This p	permitted a	ave	





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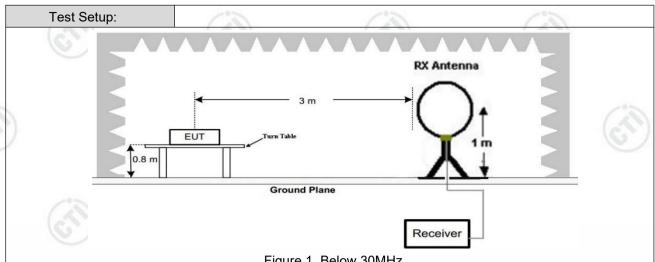
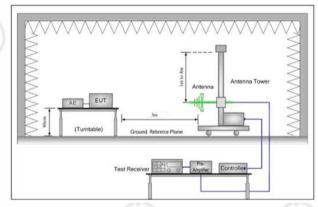


Figure 1. Below 30MHz



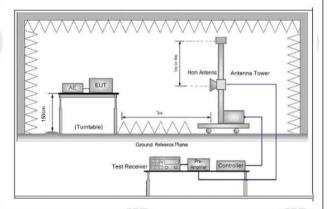


Figure 2. 30MHz to 1GHz

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:

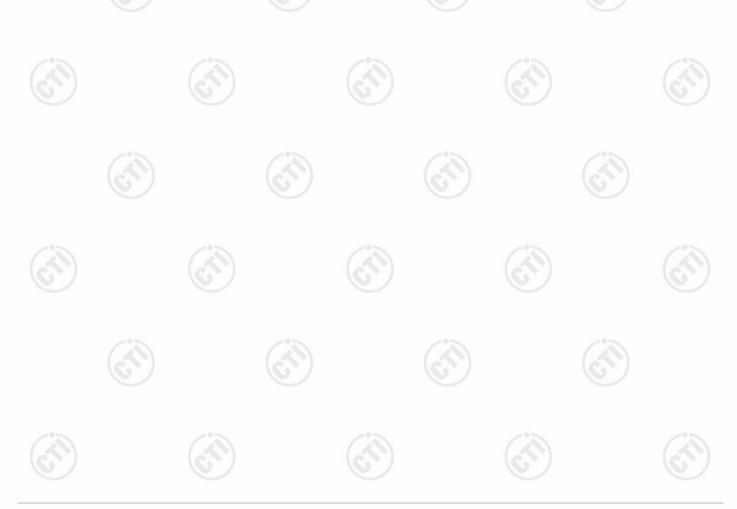
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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





Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	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.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.
	horizontal and vertical polarizations of the antenna are set to make the measurement.



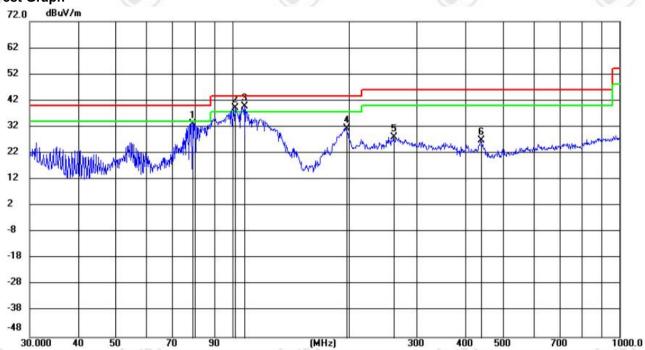


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Radiated Spurious Emission below 1GHz:

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

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		79.1176	23.47	9.65	33.12	40.00	-6.88	QP	199	178	
2	!	101.7334	25.72	13.38	39.10	43.50	-4.40	QP	199	167	
3	*	107.7176	25.67	13.98	39.65	43.50	-3.85	QP	199	188	
4		197.5461	18.65	12.78	31.43	43.50	-12.07	QP	199	7	
5		261.2414	12.93	15.11	28.04	46.00	-17.96	QP	100	64	
6		439.3481	6.64	20.07	26.71	46.00	-19.29	QP	199	92	







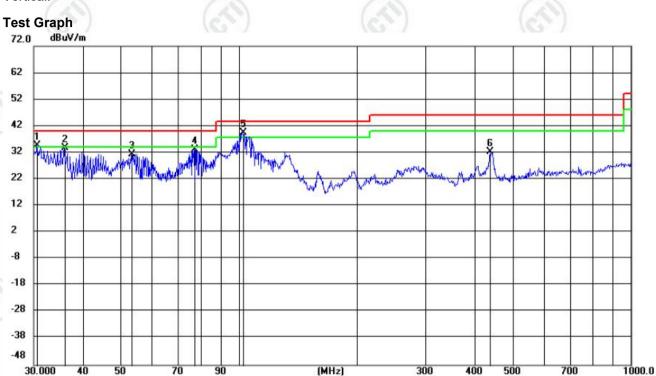






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Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	30.6164	22.26	12.39	34.65	40.00	-5.35	QP	100	124	
2		35.9187	20.94	12.69	33.63	40.00	-6.37	QP	100	144	
3		53.1499	17.26	14.18	31.44	40.00	-8.56	QP	100	218	
4		77.1452	23.31	9.87	33.18	40.00	-6.82	QP	200	278	
5	*	102.3776	26.12	13.45	39.57	43.50	-3.93	QP	100	28	
6		437.4266	12.23	20.04	32.27	46.00	-13.73	QP	100	187	





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Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode	:	В	luetooth LE G	FSK Transmit	ting	Channel:		2402 MHz	7
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1528.5686	13.43	36.70	50.13	74.00	23.87	Pass	Н	PK
2	2205.6804	15.32	37.21	52.53	74.00	21.47	Pass	Н	PK
3	3494.683	-13.90	53.17	39.27	74.00	34.73	Pass	Н	PK
4	5018.3846	-8.10	49.08	40.98	74.00	33.02	Pass	Н	PK
5	6951.6134	-2.90	46.44	43.54	74.00	30.46	Pass	Н	PK
6	10265.5344	1.96	44.15	46.11	74.00	27.89	Pass	Н	PK
7	1365.3577	12.68	36.83	49.51	74.00	24.49	Pass	V	PK
8	1912.8609	14.79	36.64	51.43	74.00	22.57	Pass	V	PK
9	3785.2524	-12.56	52.15	39.59	74.00	34.41	Pass	V	PK
10	5443.5129	-6.46	49.19	42.73	74.00	31.27	Pass	V	PK
11	7304.587	-2.88	46.72	43.84	74.00	30.16	Pass	V	PK
12	10700.4134	2.49	43.35	45.84	74.00	28.16	Pass	V	PK

Mode	:		Bluetooth LE G	FSK Transmi	tting	Channel:		2440 MHz	7
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1419.628	12.85	37.45	50.30	74.00	23.70	Pass	Н	PK
2	1875.125	14.47	36.52	50.99	74.00	23.01	Pass	Н	PK
3	4879.2753	-8.36	54.34	45.98	74.00	28.02	Pass	Н	PK
4	6739.0493	-3.33	47.06	43.73	74.00	30.27	Pass	Н	PK
5	9760.4507	1.26	45.98	47.24	74.00	26.76	Pass	Н	PK
6	11997.8999	3.13	44.55	47.68	74.00	26.32	Pass	Н	PK
7	1308.5539	12.16	37.97	50.13	74.00	23.87	Pass	V	PK
8	1936.0624	14.72	36.85	51.57	74.00	22.43	Pass	V	PK
9	3829.4553	-12.23	52.99	40.76	74.00	33.24	Pass	V	PK
10	4879.9253	-8.36	61.03	52.67	74.00	21.33	Pass	V	PK
11	7773.2682	-1.74	47.04	45.30	74.00	28.70	Pass	V	PK
12	9759.8007	1.27	46.78	48.05	74.00	25.95	Pass	V	PK













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		100		10%		20%			0 %	
1	Mode	:	В	luetooth LE G	SFSK Transmi	tting	Channel:		2480 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1388.6926	12.84	36.64	49.48	74.00	24.52	Pass	Н	PK
3	2	1861.9241	14.50	37.08	51.58	74.00	22.42	Pass	Н	PK
	3	3950.3634	-11.92	51.77	39.85	74.00	34.15	Pass	Н	PK
	4	4960.5307	-8.05	54.79	46.74	74.00	27.26	Pass	Н	PK
	5	6306.1204	-4.78	48.34	43.56	74.00	30.44	Pass	Н	PK
	6	8270.5514	-0.98	46.00	45.02	74.00	28.98	Pass	Н	PK
	7	1436.4291	13.09	37.17	50.26	74.00	23.74	Pass	V	PK
	8	2084.739	14.97	36.82	51.79	74.00	22.21	Pass	V	PK
	9	3198.9133	-14.46	56.57	42.11	74.00	31.89	Pass	V	PK
	10	4960.5307	-8.05	58.07	50.02	74.00	23.98	Pass	V	PK
3	11	7437.1958	-2.56	46.88	44.32	74.00	29.68	Pass	V	PK
V	12	10445.5964	2.20	47.90	50.10	74.00	23.90	Pass	V	PK

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
- 2) 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.

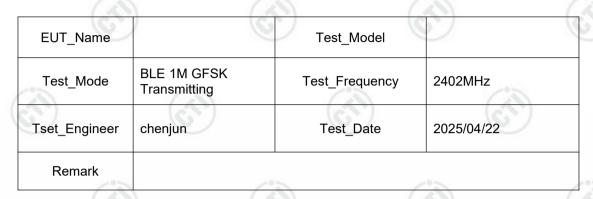


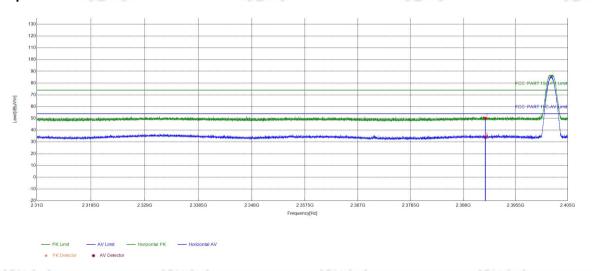




Restricted bands:

Test plot as follows:





	Suspecte	d List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2390	15.96	34.19	50.15	74.00	23.85	PASS	Horizontal	PK
d	2	2390	15.96	17.97	33.93	54.00	20.07	PASS	Horizontal	AV







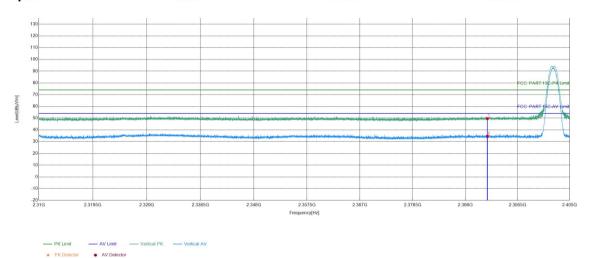




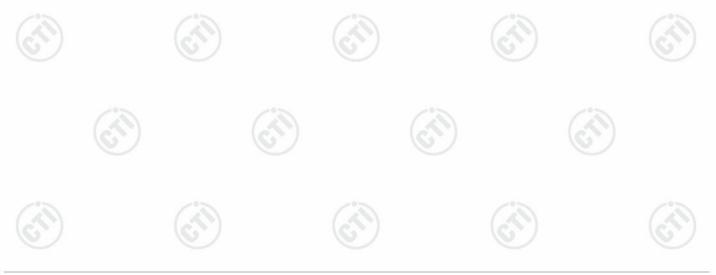


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677	(6.35)	(6.4)	(6.7)
EUT_Name		Test_Model	
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark			(3)



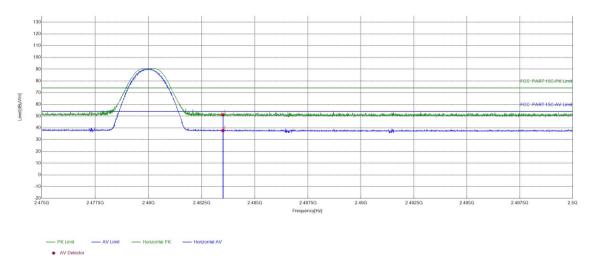
Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2390	15.96	33.72	49.68	74.00	24.32	PASS	Vertical	PK			
2	2390	15.96	18.54	34.50	54.00	19.50	PASS	Vertical	AV			







6.0	(6.5)	100	16.31
EUT_Name		Test_Model	
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark	Ci)		



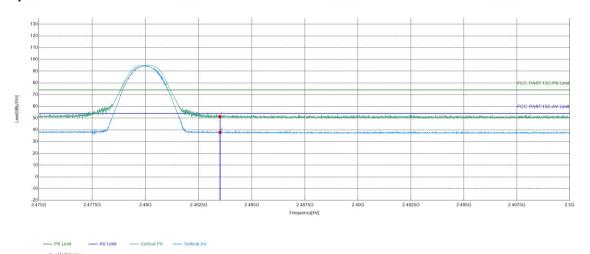
Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2483.5	16.29	34.80	51.09	74.00	22.91	PASS	Horizontal	PK			
2	2483.5	16.29	21.40	37.69	54.00	16.31	PASS	Horizontal	AV			



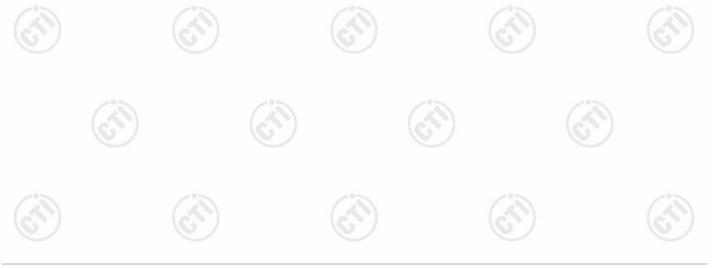




6.70	(635)	(6.3)	(679)
EUT_Name		Test_Model	
Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark			Ci



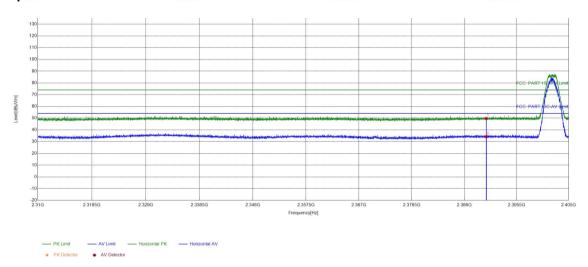
Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2483.5	16.29	35.23	51.52	74.00	22.48	PASS	Vertical	PK			
2	2483.5	16.29	21.59	37.88	54.00	16.12	PASS	Vertical	AV			





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6.01	(6.4)	(C.)	(6.7)
EUT_Name		Test_Model	
Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark	CS)		(2)



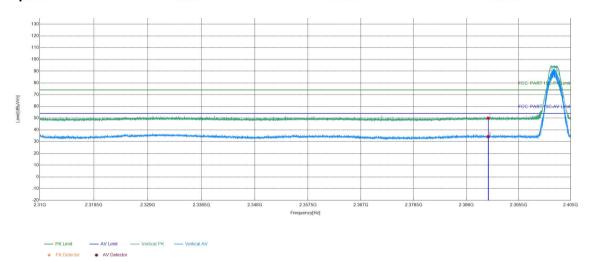
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390	15.96	33.74	49.70	74.00	24.30	PASS	Horizontal	PK		
2	2390	15.96	18.24	34.20	54.00	19.80	PASS	Horizontal	AV		



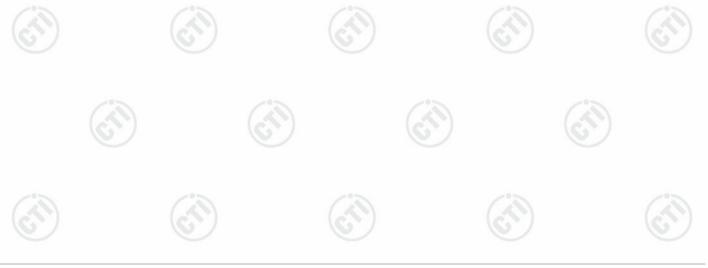


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	(6.5)	LCN J	162
EUT_Name		Test_Model	
Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark			CO.



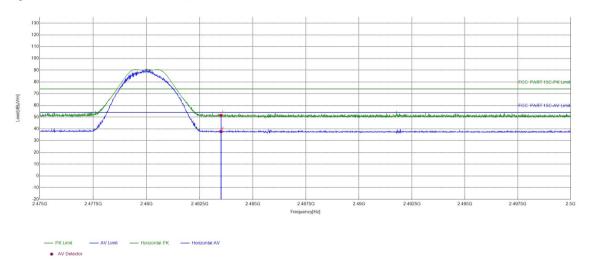
Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2390	15.96	34.15	50.11	74.00	23.89	PASS	Vertical	PK	
2	2390	15.96	18.29	34.25	54.00	19.75	PASS	Vertical	AV	



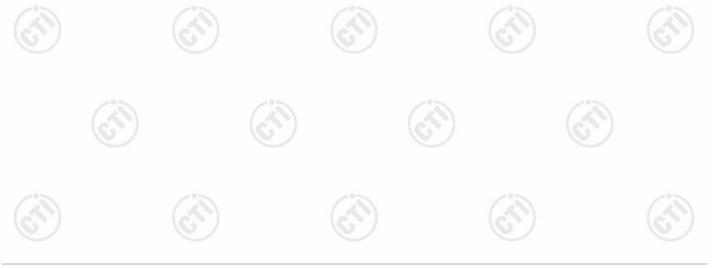


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(0.00)	(6.7)	10.7	16.31
EUT_Name		Test_Model	
Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark	Ci)	Ci)	



Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	16.29	35.35	51.64	74.00	22.36	PASS	Horizontal	PK		
2	2483.5	16.29	21.43	37.72	54.00	16.28	PASS	Horizontal	AV		

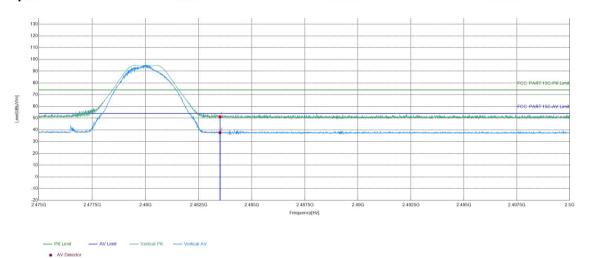




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6.0	(6.7)	10.0	16.31
EUT_Name		Test_Model	
Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	chenjun	Test_Date	2025/04/22
Remark	Ci)		

Test Graph



Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	16.29	34.96	51.25	74.00	22.75	PASS	Vertical	PK		
2	2483.5	16.29	21.40	37.69	54.00	16.31	PASS	Vertical	AV		

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



























Refer to Appendix: Bluetooth LE of EED32R80535201























































































