



TEST REPORT

Product

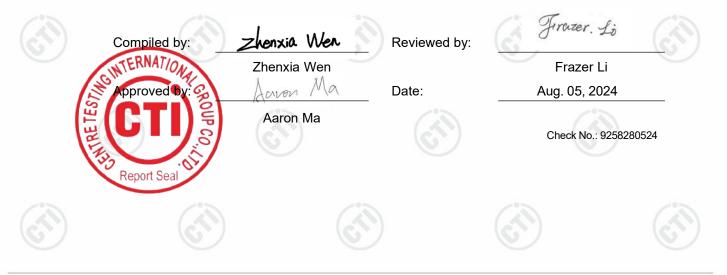
Trade mark
Model/Type reference
Serial Number
Report Number
FCC ID
Date of Issue
Test Standards
Test result

- : Arm-type Fully Automatic Digital Blood Pressure Monitor
- : N/A
- : DBP-6286B
- : N/A
- : EED32Q80725001
- 2AQVU0048
- : Aug. 05, 2024
- : 47 CFR Part 15 Subpart C
- : PASS

Prepared for:

JOYTECH Healthcare Co., Ltd. No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China

> 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







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2_	Version				(N)		(F)	
	Version No.		Date			Descripti	on	
_	00	A	ug. 05, 2024			Original		1
				(der)		S)		(c)









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set Summary





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Test Requirement	Result
47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
47 CFR Part 15 Subpart C Section 15.207	PASS
47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
47 CFR Part 15 Subpart C Section 15.247(d)	PASS
urious 47 CFR Part 15 Subpart C Section s 15.247(d)	
47 CFR Part 15 Subpart C Section 15.205/15.209	PASS
	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)47 CFR Part 15 Subpart C Section 15.20747 CFR Part 15 Subpart C Section 15.247 (a)(2)47 CFR Part 15 Subpart C Section 15.247 (b)(3)47 CFR Part 15 Subpart C Section 15.247 (b)(3)47 CFR Part 15 Subpart C Section 15.247 (e)47 CFR Part 15 Subpart C Section 15.247(d)47 CFR Part 15 Subpart C Section 15.247(d)

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.





General Information 5

5.1 Client Information

Applicant:	JOYTECH Healthcare Co., Ltd.
Address of Applicant:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China
Manufacturer:	JOYTECH Healthcare Co., Ltd.
Address of Manufacturer:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China
Factory:	JOYTECH Healthcare Co., Ltd.
Address of Factory:	No. 502, Shunda Road, Hangzhou City, Zhejiang, 311100, China

5.2 General Description of EUT

Product Name:	Arm-type F	ully Automatic	Digital Blood P	ressure Mo	nitor	
Model No.:	DBP-62868	3				
Trade mark:	N/A	~~>		~~>		~
Product Type:	Portable	(a^{1})		(\sim)		(2)
Operation Frequency:	2402MHz~	2480MHz				
Modulation Type:	GFSK					
Transfer Rate:	⊠ 1Mbps	2Mbps			~	
Number of Channel:	40					
Antenna Type:	Internal An	tenna	0		S	
Antenna Gain:	-1.37612 d	IBi				
Power Supply:	Battery:	DC 1.5V*4				
Test Voltage:	DC 6V					
Sample Received Date:	Jul. 01, 202	24		6		(O)
Sample tested Date:	Jul. 01, 202	24 to Jul. 04, 20)24			



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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

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:

Frequency	
2402MHz	
2440MHz	
2480MHz	(3)
	2402MHz 2440MHz

5.3 Test Configuration

Software: PhyPlusKit				
EUT Power Grade:	ade: Class2 (Power level is built-in set parameters and cannot be change selected)			
Jse test software to ransmitting of the E	set the lowest frequency UT.	, the middle frequer	ncy and the highest f	requency keep
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	СН0	2402
Mode b	GFSK	1Mbps	CH19	2440
Mode c	GFSK	1Mbps	CH39	2480







5.4 Test Environment

	Operating Environment	t:				
260	Radiated Spurious Emi	ssions:				
19	Temperature:	22~25.0 °C		(2)		(2)
2	Humidity:	50~55 % RH		C		C
	Atmospheric Pressure:	1010mbar				
	Conducted Emissions:					
	Temperature:	22~25.0 °C				
	Humidity:	50~55 % RH	(\mathcal{O})		(\mathcal{O})	
	Atmospheric Pressure:	1010mbar				
	RF Conducted:	·				
	Temperature:	22~25.0 °C		(3)		13
	Humidity:	50~55 % RH		(c^{γ})		(c^{γ})
~	Atmospheric Pressure:	1010mbar		U		U

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1)	sun	nort	eaui	pment
17	Sup	ρυπ	equi	pment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	HP	14-ce0061TX	FCC&CE	СТІ
Netbook	20 N		FCC&CE	СТІ

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



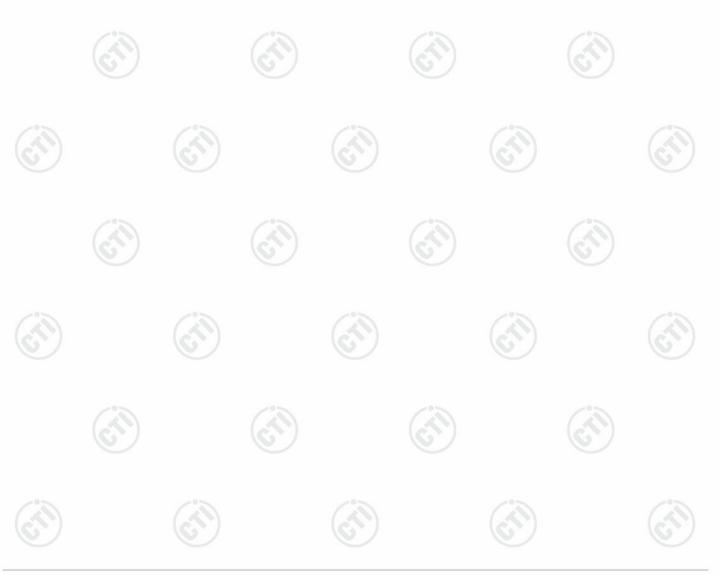






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Measurement Uncertainty (95% confidence levels, k=2) 5.7 No. **Measurement Uncertainty** Item 1 **Radio Frequency** 7.9 x 10⁻⁸ 0.46dB (30MHz-1GHz) 2 RF power, conducted 0.55dB (1GHz-40GHz) 3.3dB (9kHz-30MHz) 4.3dB (30MHz-1GHz) 3 Radiated Spurious emission test 4.5dB (1GHz-18GHz) 3.4dB (18GHz-40GHz) 3.5dB (9kHz to 150kHz) Conduction emission Δ 3.1dB (150kHz to 30MHz) 5 Temperature test 0.64°C 6 3.8% Humidity test 7 0.026% DC power voltages





6 Equipment List

Equipment

Spectrum Analyzer

Signal Generator

DC Power

Communication test set RF control unit(power unit) Wi-Fi 7GHz Band

	RF test s	system		
Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Keysight	N9010A	MY54510339	12-14-2023	12-13-2024
Keysight	N5182B	MY53051549	12-11-2023	12-10-2024
Keysight	E3642A	MY56376072	12-11-2023	12-10-2024
R&S	CMW500	169004	03-08-2024	03-07-2025
JS Tonscend	JS0806-2)	A	(
JS Tonscend	TS-WF7U2			
Dong Guang Qin	LK-80GA	QZ20150611879	12-11-2023	12-10-2024

Extendder	JS TONSCENU	13-007/02				
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-11-2023	12-10-2024	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20			
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025	

	Conducted disturbance Test								
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025				
Temperature/ Humidi Indicator	ty Defu	TH128	$\langle \boldsymbol{\varphi} \rangle$	04-25-2024	04-24-2025				
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024				
Barometer	changchun	DYM3	1188						
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	6					

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Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-29-2023	06-28-2024
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024

Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber &		e			
Accessory	TDK	SAC-3		05/22/2022	05/21/2025
Equipment		12	12		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Receiver	R&S	ESCI7	100938-003	09/22/2023	09/21/2024
Spectrum Analyzer	R&S	FSV40	101200	07/25/2023	07/24/2024
RILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
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		(
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A		(i)
Cable line	Fulai(3M)	SF106	5217/6A		





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		3M full-anechoi	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	\bigcirc	6	
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025	
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	01-18-2025	
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-13-2024	01-12-2025	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021 07-03-2024	07-03-2024 07-02-2025	
Preamplifier	EMCI	EMC184055SE	980597	04-12-2024	04-11-2025	
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025	
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024	
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027	
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	(d))	(c	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(s)	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		/	
Cable line	Times	HF160-KMKM-3.00M	393493-0001	$(\mathcal{C}^{(1)})$	(c	





7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

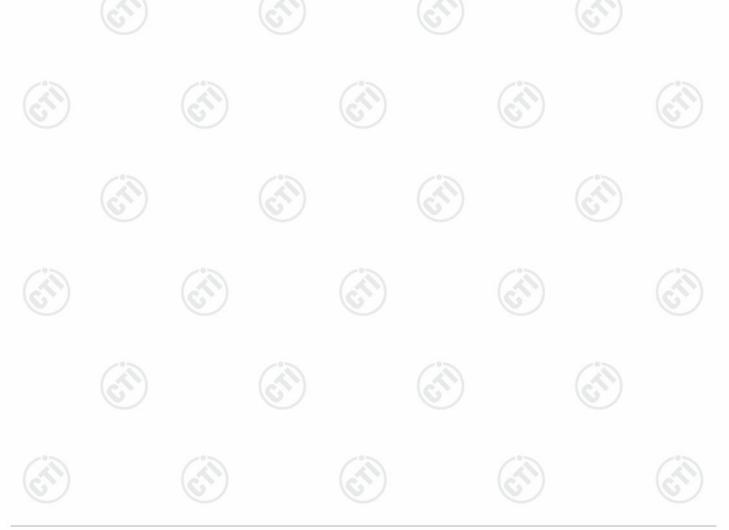
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Internal antenna. The best case gain of the antenna is -1.37612dBi.





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Test Requirement	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.207							
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013							
Test Frequency R	ange: 150kHz to 30MHz								
Receiver setup:	RBW=9 kHz, VBW=30 kHz,	RBW=9 kHz, VBW=30 kHz, Sweep time=auto							
Limit:		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								
Test Procedure:	Shielding Room EUT AC Mains HUND 1) The mains terminal disturb	AE USN2 + AC M Ground Reference Plane rbance voltage test wa							
	 room. 2) The EUT was connected Impedance Stabilization I impedance. The power connected to a second LI plane in the same way multiple socket outlet strinsingle LISN provided the 3) The tabletop EUT was p ground reference plane. A placed on the horizontal geode on the LIST shall be 0.4 m vertical ground reference plane. The LIST unit under test and bo mounted on top of the growthe closest points of the and associated equipmer 5) In order to find the maxim and all of the interface care 	d to AC power source Network) which provide cables of all other ISN 2, which was bonde as the LISN 1 for the p was used to connect rating of the LISN was laced upon a non-meta And for floor-standing a ground reference plane with a vertical ground re of from the vertical ground for floor standing a ground reference plane of fom the vertical ground re plane was bonded SN 1 was placed 0.8 m inded to a ground re pound reference plane. The LISN 1 and the EUT. It was at least 0.8 m from hum emission, the relat ables must be changed	e through a LISN 1 (Line is a $50\Omega/50\mu$ H + 5Ω linear units of the EUT were ed to the ground reference is unit being measured. A multiple power cables to a not exceeded. allic table 0.8m above the arrangement, the EUT was ference plane. The rear or und reference plane. The to the horizontal ground from the boundary of the ference plane for LISNs This distance was between All other units of the EUT om the LISN 2. ive positions of equipment according to						
Test Mode:		ANSI C63.10: 2013 on conducted measurement. All modes were tested, only the worst case mode a was recorded in the report.							

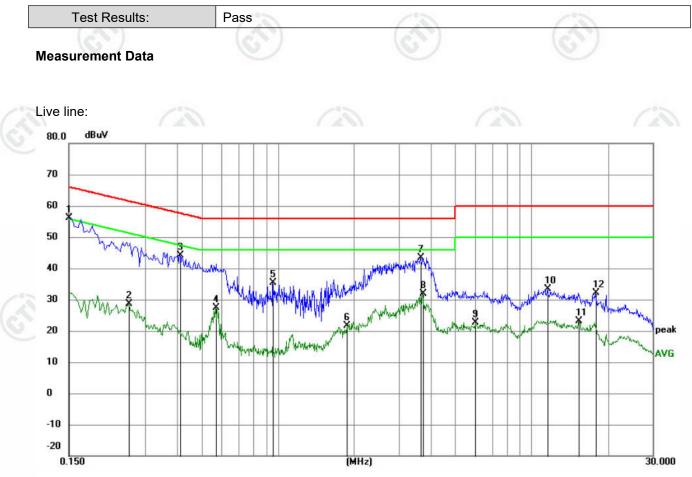






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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	46.20	9.87	56.07	66.00	-9.93	QP	
2		0.2580	18.84	9.70	28.54	51.50	-22.96	AVG	
3		0.4110	34.36	9.79	44.15	57.63	-13.48	QP	
4		0.5685	17.85	9.65	27.50	46.00	-18.50	AVG	
5		0.9555	25.53	9.77	35.30	56.00	-20.70	QP	
6		1.8735	11.89	9.75	21.64	46.00	-24.36	AVG	
7		3.6600	33.61	9.80	43.41	56.00	-12.59	QP	
8		3.7275	21.96	9.80	31.76	46.00	-14.24	AVG	
9		5.9955	12.78	9.84	22.62	50.00	-27.38	AVG	
10		11.6025	23.52	9.84	33.36	60.00	-26.64	QP	
11		15.3555	13.16	9.86	23.02	50.00	-26.98	AVG	
12		17.9205	22.25	9.96	32.21	60.00	-27.79	QP	

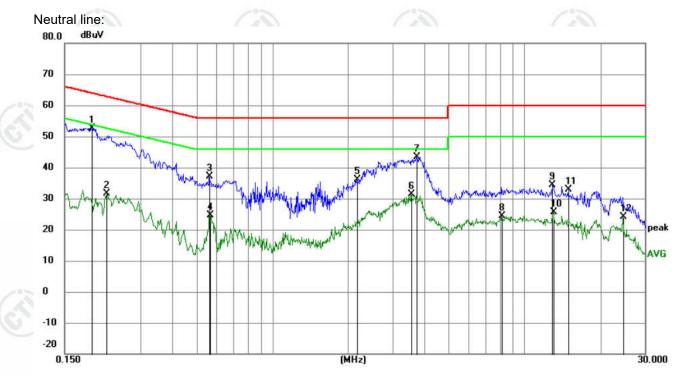
Remark:

- 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.





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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1914	42.63	9.91	52.54	63.98	-11.44	QP	
2		0.2197	21.90	9.84	31.74	52.83	-21.09	AVG	
3		0.5639	27.48	9.66	37.14	56.00	-18.86	QP	
4		0.5641	14.86	9.66	24.52	46.00	-21.48	AVG	
5		2.1614	26.43	9.75	36.18	56.00	-19.82	QP	
6		3.5520	21.65	9.80	31.45	46.00	-14.55	AVG	
7		3.7230	33.61	9.80	43.41	56.00	-12.59	QP	
8		8.1150	14.53	9.84	24.37	50.00	-25.63	AVG	
9		12.9030	24.61	9.84	34.45	60.00	-25.55	QP	
10		12.9975	15.76	9.84	25.60	50.00	-24.40	AVG	
11		14.9595	23.15	9.85	33.00	60.00	-27.00	QP	
12		24.5760	14.30	9.93	24.23	50.00	-25.77	AVG	

Remark:

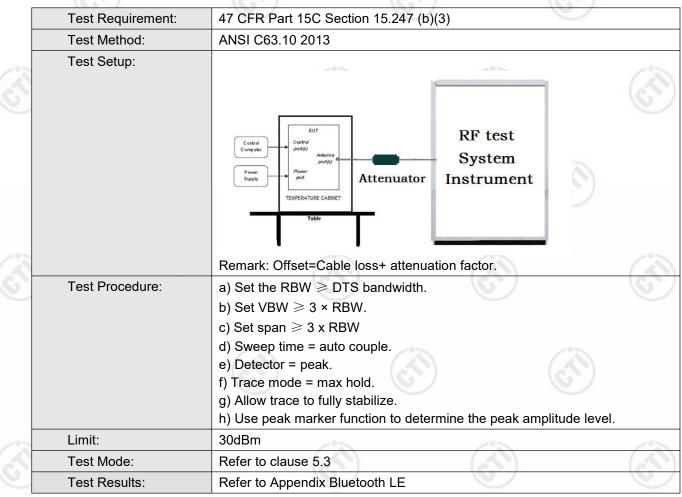
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.

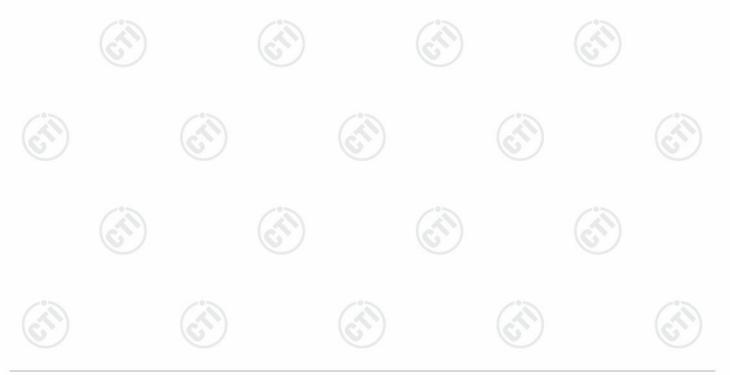




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7.3 Maximum Conducted Output Power









7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)							
Test Method:	ANSI C63.10 2013							
Test Setup:								
	Control Control Control Power Supply Fower TEMPERATURE CABNET Table							
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. a) Set RBW = 100 kHz.							
rest rocedure.	 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 Bluetooth LE							







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7.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Computer Supply Power Supply TemPERATURE CABNET Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix Bluetooth LE

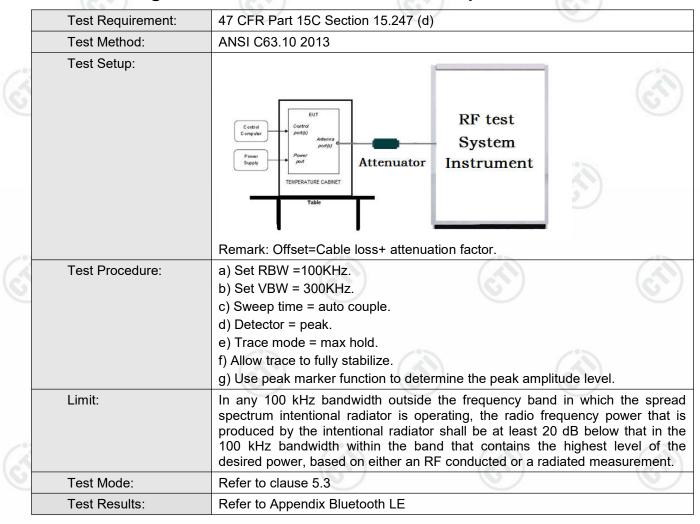








7.6 Band Edge measurements and Conducted Spurious Emission









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7.7 Radiated Spurious Emission & Restricted bands

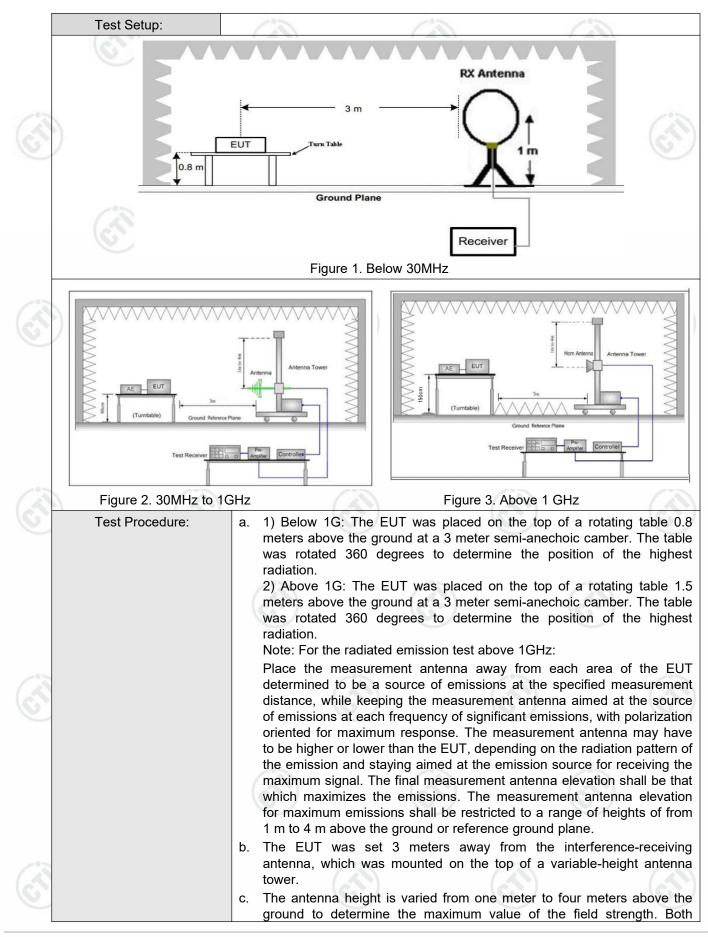
	Test Requirement:	47 CFR Part 15C Section	ion 15	.209 and 15	.205	C	
	Test Method:	ANSI C63.10 2013					
	Test Site:	Measurement Distance	e: 3m (Semi-Anech	noic Cham	ber)	- 11
	Receiver Setup:	Frequency	9	Detector	RBW	VBW	Remark
<u>C</u>		0.009MHz-0.090MH	lz	Peak	10kHz	z 30kHz	Peak
		0.009MHz-0.090MH	lz	Average	10kHz	z 30kHz	Average
		0.090MHz-0.110MH	lz	Quasi-peak	10kHz	z 30kHz	Quasi-peak
		0.110MHz-0.490MH	lz	Peak	10kHz	z 30kHz	Peak
		0.110MHz-0.490MH	lz	Average	10kHz	z 30kHz	Average
		0.490MHz -30MHz	<u>.</u>	Quasi-peak	10kHz	z 30kHz	Quasi-peak
		30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz	Quasi-peak
13				Peak	1MHz	3MHz	Peak
6		Above 1GHz	P) [Peak	1MHz	: 10kHz	Average
	Limit:	Frequency		d strength ovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m)
		0.009MHz-0.490MHz	240	0/F(kHz)	-	- / 2	300
		0.490MHz-1.705MHz	240	00/F(kHz)	-	- (2)	30
		1.705MHz-30MHz		30	-	6	30
		30MHz-88MHz		100	40.0	Quasi-peal	x 3
		88MHz-216MHz		150	43.5	Quasi-peal	< <u>3</u>
		216MHz-960MHz	9	200	46.0	Quasi-peal	< <u>3</u>
S.		960MHz-1GHz		500	54.0	Quasi-peal	< 3
		Above 1GHz		500	54.0	Average	3
		Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	s 20dB equipm	above the nent under t	maximum est. This p	permitted av	verage emission











【华测检测

Report No. : EED32Q80725001

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. If the emission level of the EUT in peak mode was 10dB lower than the f. 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. Repeat above procedures until all frequencies measured was complete. i. Refer to clause 5.3 Test Mode: Pass Test Results:







Hotline:400-6788-333





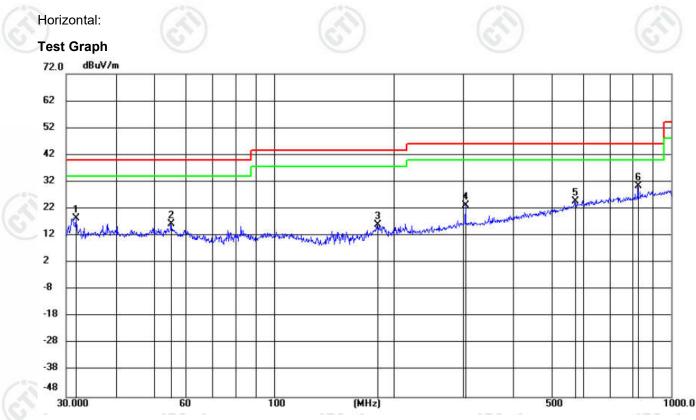
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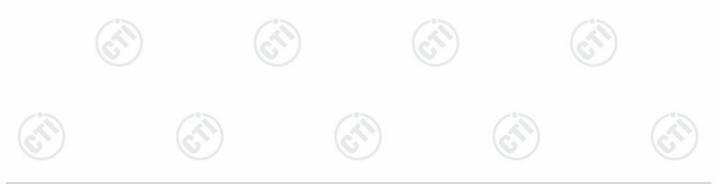
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Radiated Spurious Emission below 1GHz:

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.



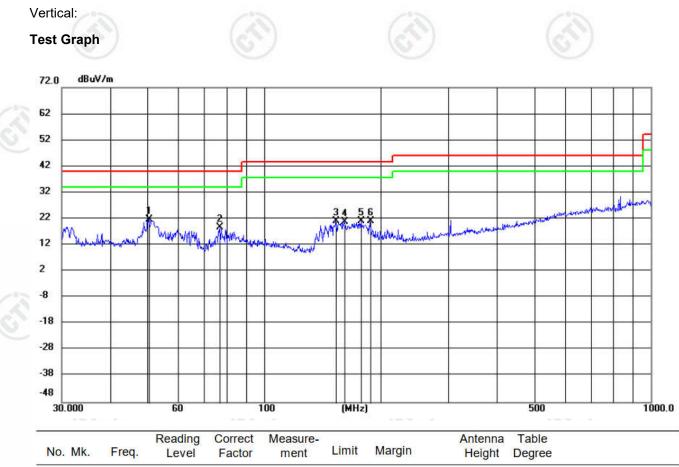
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	31.7980	5.58	12.90	18.48	40.00	-21.52	QP	100	79	
2	55.2110	2.62	13.71	16.33	40.00	-23.67	QP	100	119	
3	182.5592	4.05	11.99	16.04	43.50	-27.46	QP	199	311	
4	304.2363	6.40	16.75	23.15	46.00	-22.85	QP	100	38	
5	573.8204	1.91	22.83	24.74	46.00	-21.26	QP	100	201	
6 *	827.3483	4.14	26.26	30.40	46.00	-15.60	QP	100	17	







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No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		Height	Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	50.2765	7.52	14.14	21.66	40.00	-18.34	QP	100	268	
2		76.7943	8.61	10.02	18.63	40.00	-21.37	QP	100	193	
3		153.6846	11.10	9.92	21.02	43.50	-22.48	QP	100	45	
4		161.3892	10.45	10.49	20.94	43.50	-22.56	QP	100	141	
5		178.4453	9.30	11.84	21.14	43.50	-22.36	QP	100	151	
6		188.0825	8.82	12.28	21.10	43.50	-22.40	QP	100	151	





Radiated Spurious Emission above 1GHz:

		~ ~			(· · · · · · · · · · · · · · · · · · ·					
	Mode	:		BLE GFSK T	ransmitting		Channel:		2402 MHz	z
2	NO	Freq. [MHz]	Facto [dB]	Deedine	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	1279.2279	7.78	37.78	45.56	74.00	28.44	Pass	н	PK
	2	1750.475	8.49	37.17	45.66	74.00	28.34	Pass	Н	PK
ĺ	3	4804.1203	-13.44	4 61.83	48.39	74.00	25.61	Pass	Н	PK
	4	7206.2804	-7.81	52.51	44.70	74.00	29.30	Pass	Н	PK
	5	9507.4338	-0.53	3 43.46	42.93	74.00	31.07	Pass	Н	PK
	6	13339.6893	3.17	42.68	45.85	74.00	28.15	Pass	Н	PK
	7	1267.2267	7.82	37.68	45.50	74.00	28.50	Pass	V	PK
	8	1773.6774	8.48	37.80	46.28	74.00	27.72	Pass	V	PK
23	9	4803.1202	-13.44	4 58.50	45.06	74.00	28.94	Pass	V	PK
	10	6674.245	-7.98	3 47.10	39.12	74.00	34.88	Pass	V	PK
_	11	8104.3403	-2.80) 45.37	42.57	74.00	31.43	Pass	V	PK
	12	10851.5234	-0.04	44.70	44.66	74.00	29.34	Pass	V	PK

Mode	:	E	BLE GFSK Trai	nsmitting		Channel:		2440 MHz	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1399.84	8.23	37.93	46.16	74.00	27.84	Pass	н	PK
2	1972.6973	8.98	37.15	46.13	74.00	27.87	Pass	Н	PK
3	4880.1253	-13.46	62.84	49.38	74.00	24.62	Pass	Н	PK
4	7321.2881	-6.72	52.98	46.26	74.00	27.74	Pass	Н	PK
5	10762.5175	-0.52	44.05	43.53	74.00	30.47	Pass	Н	PK
6	13503.7002	5.73	40.15	45.88	74.00	28.12	Pass	Н	PK
7	1459.2459	8.00	37.39	45.39	74.00	28.61	Pass	V	PK
8	2085.9086	9.46	36.96	46.42	74.00	27.58	Pass	V	PK
9	4880.1253	-13.46	59.70	46.24	74.00	27.76	Pass	V	PK
10	7319.288	-6.72	47.24	40.52	74.00	33.48	Pass	V	PK
11	12172.6115	0.66	43.53	44.19	74.00	29.81	Pass	V	PK
12	14001.7334	7.32	40.49	47.81	74.00	26.19	Pass	V	PK
7		07		6.		0	/		W J

















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		10						1	0	
	Mode	:		BLE GFSK Tra	ansmitting		Channel:		2480 MH	z
	NO	Freq. [MHz]	Facto [dB]	De a din a	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1467.2467	7.97	37.32	45.29	74.00	28.71	Pass	н	PK
	2	2077.3077	9.41	37.24	46.65	74.00	27.35	Pass	Н	PK
	3	4960.1307	-13.3	5 61.49	48.14	74.00	25.86	Pass	Н	PK
	4	7440.296	-6.29	50.89	44.60	74.00	29.40	Pass	Н	PK
	5	9408.4272	-1.33	43.03	41.70	74.00	32.30	Pass	Н	PK
Ī	6	13123.6749	2.41	41.70	44.11	74.00	29.89	Pass	Н	PK
	7	1448.4448	8.04	37.71	45.75	74.00	28.25	Pass	V	PK
	8	1885.4885	8.88	36.81	45.69	74.00	28.31	Pass	V	PK
Ī	9	4948.1299	-13.37	7 58.52	45.15	74.00	28.85	Pass	V	PK
Ī	10	8130.342	-3.09	46.14	43.05	74.00	30.95	Pass	V	PK
3	11	11478.5652	0.32	43.49	43.81	74.00	30.19	Pass	V	PK
	12	13758.7172	4.51	41.52	46.03	74.00	27.97	Pass	V	PK
	1		~							

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

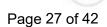
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.











Restricted bands:

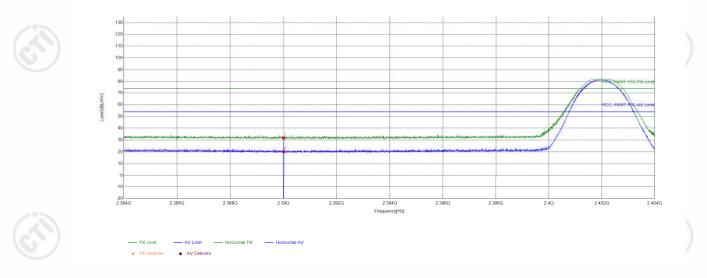




Test plot as follows:

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402	(S)
Tset_Engineer	Aiden.wang	Test_Date	2024/07/03	
Remark	1		(A)	

Test Graph



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	-22.26	54.13	31.87	74.00	42.13	PASS	Horizontal	PK
2	2390	-22.26	42.51	20.25	54.00	33.75	PASS	Horizontal	AV

















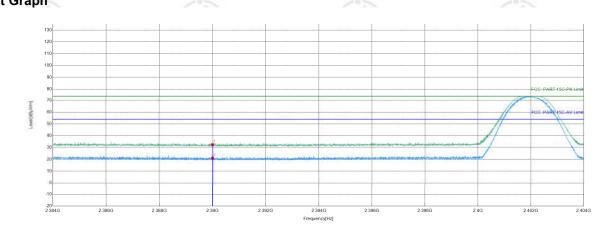




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Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402
set_Engineer	Aiden.wang	Test_Date	2024/07/03
set_Engineer 	Aiden.wang	Test_Date	2024/07/03

Test Graph



PK Limit — AV Limit — Vertical PK — Vertical AV PK Detector AV Detector

Sus	pecte	d List								212
N(Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1	2390	-22.26	54.72	32.46	74.00	41.54	PASS	Vertical	PK
2	2	2390	-22.26	43.28	21.02	54.00	32.98	PASS	Vertical	AV
	S			(\mathbf{G}^{*})		6			S)	



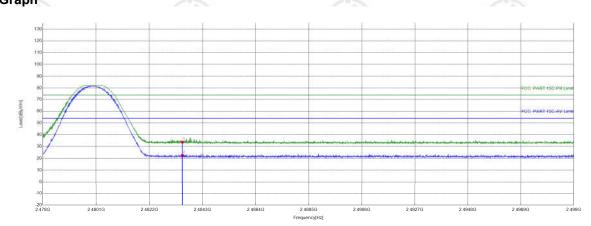




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Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480
Tset_Engineer	Aiden.wang	Test_Date	2024/07/03

Test Graph



PK Limit AV Limit Horizontal PK Horizontal AV * AV Detector

<* >>	() () () () () () () () () ()		1°2		12		1	2		13
<u>S</u>	Suspected List									
2	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Γ	1	2483.5	-21.55	55.36	33.81	74.00	40.19	PASS	Horizontal	PK
Ī	2	2483.5	-21.55	43.88	22.33	54.00	31.67	PASS	Horizontal	AV
-	6			67		6			67	



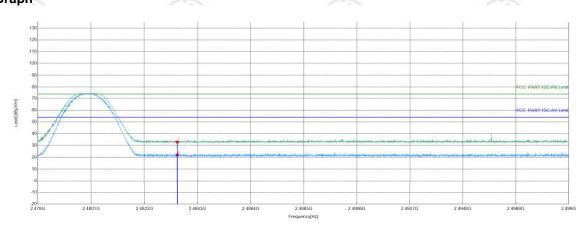




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Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480
Tset_Engineer	Aiden.wang	Test_Date	2024/07/03
Remark	١		

Test Graph



- PK Limi * AV Detector

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		/°~		1	2		<">>
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	-21.55	54.57	33.02	74.00	40.98	PASS	Vertical	PK
2	2483.5	-21.55	43.58	22.03	54.00	31.97	PASS	Vertical	AV
	51		67		G	<u>.</u>		GT	

#### 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







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