





Product Portable computer

Trade mark N/A

Model/Type reference : VIGOBOOK G1, VIGOBOOK G3,

VIGOBOOK G5, VIGOBOOK G7,

VIGOBOOK G9

Serial Number N/A

Report Number : EED32Q81407201

FCC ID 2BK7AT156A240100001

Date of Issue Sep. 30, 2024

Test Standards 47 CFR Part 15 Subpart C

Test result PASS

Prepared for:

Shenzhen Yuehe Intelligent Technology Co., Ltd. 4F B, Building 2, Phase 3, Huangtian Yangbei Industrial Zone, Huangtian Community, Hangcheng Street, Baoan District, Shenzhen

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

Compiled by: Report Seal

rater. Li Frazer Li

Aaron Ma

Reviewed by:

Tom Chen

Sep. 30, 2024

aron Ma Date:

Check No.::4837090924













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2 Version

Version No. Date		Description			
00	Sep. 30, 2024		Original		
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	(C	96)			









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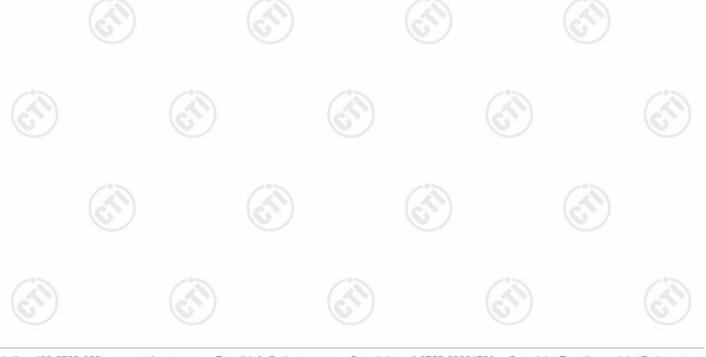
3 Test Summary

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	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	

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.

Model No.:VIGOBOOK G1,VIGOBOOK G3 VIGOBOOK G5,VIGOBOOK G7,VIGOBOOK G9
Only the model VIGOBOOK G7 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with only differences in these models are the model names. All other features are identical. These differences do not impact the product's safety or electromagnetic compatibility performance. The different models, voltage, current, and power specifications are solely intended to differentiate between various sales markets.







4 General Information

4.1 Client Information

Applicant:	Shenzhen Yuehe Intelligent Technology Co., Ltd.				
Address of Applicant:	4F B, Building 2, Phase 3, Huangtian Yangbei Industrial Zone, Huangtian Community, Hangcheng Street, Baoan District, Shenzhen				
Manufacturer:	Shenzhen Yuehe Intelligent Technology Co., Ltd.				
Address of Manufacturer:	4F B, Building 2, Phase 3, Huangtian Yangbei Industrial Zone, Huangtian Community, Hangcheng Street, Baoan District, Shenzhen				
Factory:	Shenzhen Yuehe Intelligent Technology Co., Ltd.				
Address of Factory:	4F B, Building 2, Phase 3, Huangtian Yangbei Industrial Zone, Huangtian Community, Hangcheng Street, Baoan District, Shenzhen				

4.2 General Description of EUT

-					
Product Name:	Portable con	nputer			
Model No.:	VIGOBOOK	G1,VIGOBOOK G	3 VIGOBOOK G5,		
	VIGOBOOK	G7,VIGOBOOK G			(20)
Test Model No.:	VIGOBOOK	G7	(0,0)		(0,)
Trade mark:	N/A				
Product Type:	☐ Mobile	⊠ Portable □	Fix Location		
Operation Frequency:	2402MHz~24	480MHz	Ti.		
Modulation Type:	GFSK	(6)	N)	(0,)	
Transfer Rate:	⊠ 1Mbps ∑	☑ 2Mbps			
Number of Channel:	40				
Antenna Type:	Internal Ante	enna	(3)		(3)
Antenna Gain:	1.45dBi;	(6.5)	(672)		(6.77)
Power Supply:	Adapter:	Model:JHD-AP0 Input:100-240V Output:19V,237			
Test Voltage:	DC 19V		in a		
Sample Received Date:	Sep. 09, 202	24	N)	(0,)	
Sample tested Date:	Sep. 09, 202	4 to Sep. 24, 2024			





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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:

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

4.3 Test Configuration

EUT Test Softwar	e Settings:						
Test Software:	MPtoolkit	MPtoolkit.exe (manufacturer declare)					
EUT Power Grade:	,	Default (Power level is built-in set parameters and cannot be changed and selected)					
Use test software to transmitting of the I	o set the lowest frequen	cy, the middle freque	ncy and the highest f	requency 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			
Mode d	GFSK	2Mbps	CH0	2402			
Mode e GFSK		2Mbps	CH19	2440			
Mode f	GFSK	2Mbps	CH39	2480			



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4.4 Test Environment

	Operating Environment	::							
	Radiated Spurious Emissions:								
10	Temperature:	22~25.0 °C	(4)		(41)		(4)		
	Humidity:	50~55 % RH	0		(0)		(0)		
	Atmospheric Pressure:	1010mbar							
	Conducted Emissions:								
	Temperature:	22~25.0 °C		(2)		(30)			
	Humidity:	50~55 % RH		(0,)		(0,)			
	Atmospheric Pressure:	1010mbar							
	RF Conducted:								
	Temperature:	22~25.0 °C	(°)		(3)				
(i	Humidity:	50~55 % RH	(5,2)		(6,7)		(6.2)		
	Atmospheric Pressure:	1010mbar							

4.5 Description of Support Units

The EUT has been tested independently.

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

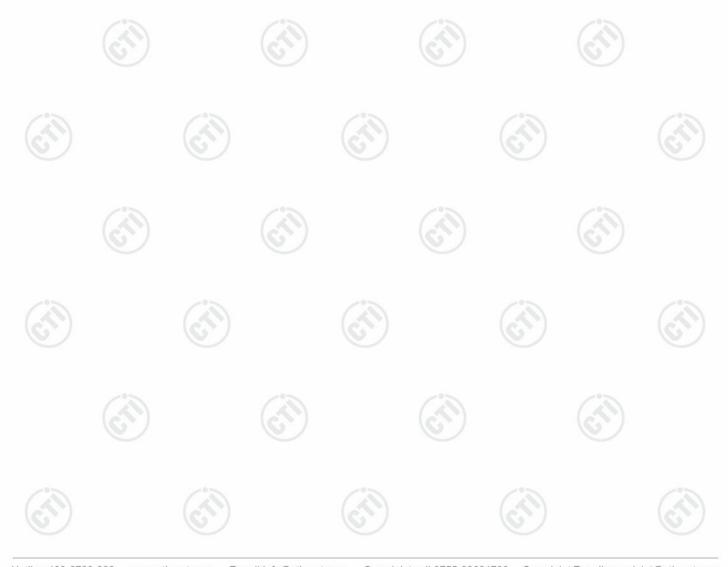






4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	DE nouver conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
	6	3.3dB (9kHz-30MHz)	
3	Dadicted Spurious emission test	4.3dB (30MHz-1GHz)	
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)	
(P)		3.4dB (18GHz-40GHz)	
	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%	



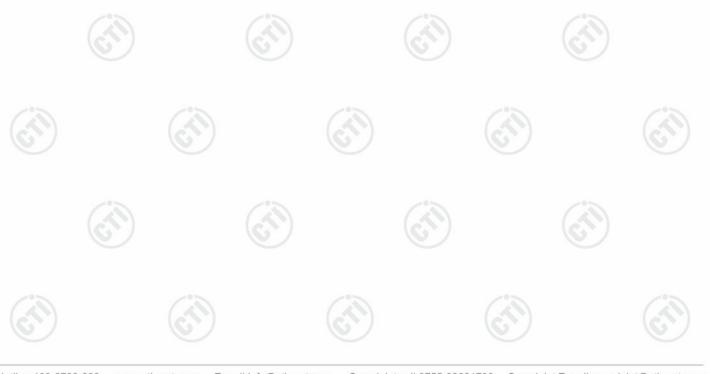


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5 Equipment List

		BT/WIFI/SRD	RF test system		
Equipment	Manufacturer	Mode 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	11/12/2023	12/10/2024
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		
Spectrum Analyzer	R&S	FSV3044	101509	01/17/2024	01/16/2025

Conducted Emissions 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	
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025	
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025	
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024	
Barometer	Changchun	DYM3	1188		<u> </u>	
Temperature/ Humidity Indicator	Defu	TH128	(04-25-2024	04-24-2025	
Test software	Fara	EZ-EMC	EMC-CON 3A1.1			





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	3M	Semi/full-anecho	ic Chamber(2#)			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (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	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-16-2024	04-15-2025	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-18-2024	05-17-2025	
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-16-2024	04-15-2025	
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07-02-2023	07-01-2026	
Preamplifier	Agilent	11909A	12-1	03-22-2024	03-21-2025	
Preamplifier	EMCI	EMC051845SE	980380	12-14-2023	12-13-2024	
Preamplifier	CD	PAP-1840-60	6041.6042	06-19-2024	06-18-2025	
Cable line	Fulai(7M)	SF106	5219/6A			
Cable line	Fulai(6M)	SF106	5220/6A			
Cable line	Fulai(3M)	SF106	5216/6A	(''	/	
Cable line	Fulai(3M)	SF106	5217/6A	(247)	(>	
Test software	Fara	EZ-EMC	EMEC-3A1- Pre	(0)	(





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\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		3M full-anech	oic Chamber	/	~ // /	
				Cal. Date	Cal. Due date	
Equipment	Manufacturer	Model No.	Serial Number	(mm-dd-yyyy)	(mm-dd-yyyy)	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027	
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025	
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025	
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025	
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	07-03-2024	07-02-2025	
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025	
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025	
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024	
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	
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0			
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001	((³)	
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		(2	
Cable line	Cable line Times 3.00M		SN160710		@	
Cable line			394813-0001			
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	(
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001	(5)	
Cable line	Times	HF160-KMKM- 3.00M	393493-0001			















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6 Test results and Measurement Data

6.1 Antenna Requirement

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

15.203 requirement:

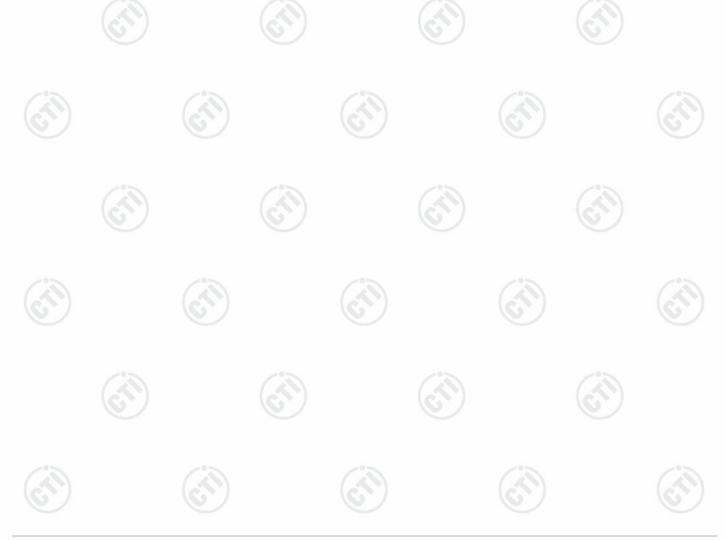
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 integral antenna. The best case gain of the antenna is 1.45dBi;





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6.2 Conducted Emissions

U. _	Conducted Linis	310113							
	Test Requirement:	47 CFR Part 15C Section 15	207	(0)					
	Test Method:	ANSI C63.10: 2013							
	Test Frequency Range:	150kHz to 30MHz							
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto							
	Limit:	(65)	BuV)						
		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.							
	Test Setup:		•						
		Shielding Room EUT AC Mains LISN1	AE LISN2 → AC Mains Ground Reference Plane	Test Receiver					
		Ground Releience Plane							
	Test Procedure:	The mains terminal disturbance voltage test was conducted in a shielded							
		room. 2) The EUT was connected Impedance Stabilization Nimpedance. The power connected to a second LI plane in the same way multiple socket outlet stripsingle LISN provided the single LISN provided the single LISN provided the ground reference plane. A placed on the horizontal ground reference with EUT shall be 0.4 minuted ground reference plane. The LIS unit under test and both mounted on top of the ground associated equipment.	It to AC power source to Network) which provides cables of all other used to some the LISN 1 for the example of the LISN was not acced upon a non-metall and for floor-standing arround reference plane. If the vertical ground reference plane was bonded to a ground reference plane. The LISN 1 and the EUT. Alt twas at least 0.8 m from	through a LISN 1 (Line a $50\Omega/50\mu H + 5\Omega$ linear nits of the EUT were to the ground reference unit being measured. A ultiple power cables to a of exceeded. In the case of the case of the case of the horizontal ground from the boundary of the erence plane for LISNs is distance was between a the LISN 2.					
		In order to find the maximand all of the interface ca							
		ANSI C63.10: 2013 on co	/						
	Test Mode:	All modes were tested, only t report.	he worst case mode a w	as recorded in the					

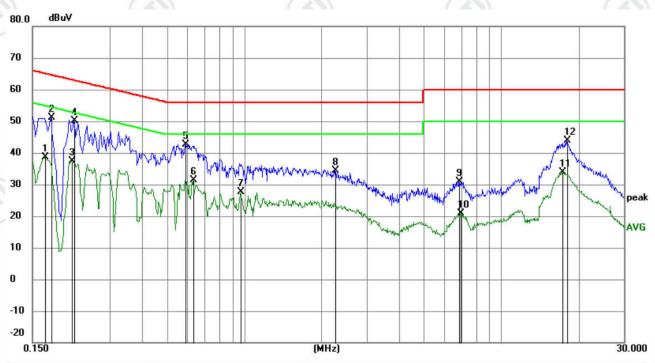


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Test Results:	Pass
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Measurement Data

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	28.87	9.85	38.72	55.06	-16.34	AVG	
2		0.1770	41.23	9.86	51.09	64.63	-13.54	QP	
3		0.2130	27.44	9.83	37.27	53.09	-15.82	AVG	
4	*	0.2175	40.24	9.81	50.05	62.91	-12.86	QP	
5		0.5910	33.12	9.61	42.73	56.00	-13.27	QP	
6		0.6315	21.69	9.72	31.41	46.00	-14.59	AVG	
7		0.9690	17.80	9.76	27.56	46.00	-18.44	AVG	
8		2.2559	24.59	9.76	34.35	56.00	-21.65	QP	
9		6.8730	21.07	9.85	30.92	60.00	-29.08	QP	
10		6.9810	10.91	9.85	20.76	50.00	-29.24	AVG	
11		17.3130	23.94	9.94	33.88	50.00	-16.12	AVG	
12		18.0195	34.02	9.96	43.98	60.00	-16.02	QP	

Remark:

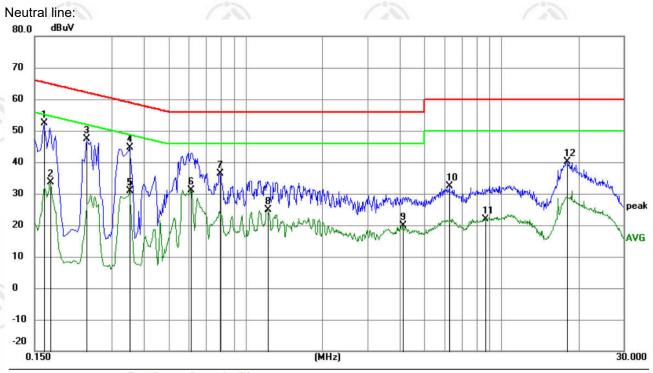
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.











No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1635	42.53	9.85	52.38	65.28	-12.90	QP	
2		0.1725	23.68	9.86	33.54	54.84	-21.30	AVG	
3		0.2400	37.69	9.74	47.43	62.10	-14.67	QP	
4		0.3525	34.97	9.67	44.64	58.90	-14.26	QP	
5		0.3525	21.31	9.67	30.98	48.90	-17.92	AVG	
6		0.6134	21.50	9.65	31.15	46.00	-14.85	AVG	
7		0.7935	26.62	9.79	36.41	56.00	-19.59	QP	
8		1.2164	15.12	9.74	24.86	46.00	-21.14	AVG	
9		4.1235	10.07	9.81	19.88	46.00	-26.12	AVG	
10		6.2520	22.52	9.85	32.37	60.00	-27.63	QP	
11		8.6415	12.12	9.84	21.96	50.00	-28.04	AVG	
12		17.9970	30.07	9.96	40.03	60.00	-19.97	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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6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Computer Power Supply Power Pot Table EUT RF test System System Instrument	
	Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure:	a) Set the RBW ≥ DTS bandwidth.b) Set VBW ≥ 3 × RBW.	(C.)
	 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. 	
Limit:	30dBm	/3>
Test Mode:	Refer to clause 5.3	
Test Results:	Refer to Appendix A	
	Test Method: Test Setup: Test Procedure: Limit: Test Mode:	Test Method: Test Setup: RF test System Instrument 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. Limit: 30dBm Test Mode: RF test System Instrument 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 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. Refer to clause 5.3





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6.4 DTS Bandwidth

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

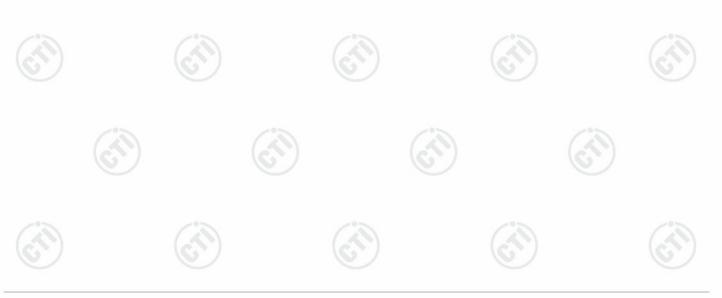






6.5 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C Section 15.247 (e)
	Test Method:	ANSI C63.10 2013
	Test Setup:	
		Control Computer Supply Power Supply Table RF test System Attenuator Instrument
10		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 \leq RBW \leq 100 kHz. d) Set the VBW \geq [3 \times 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 A







6.6 Band Edge measurements and Conducted Spurious Emission

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



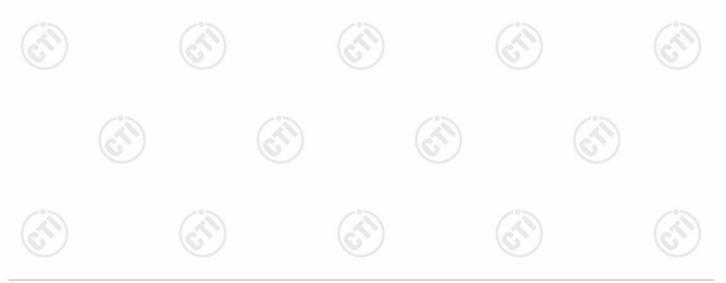
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





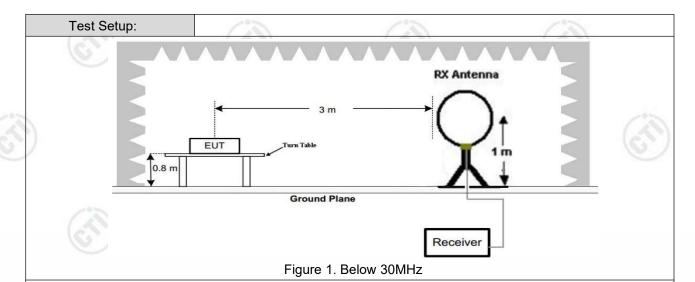
6.7 Radiated Spurious Emission & Restricted bands

16.7	165		163		163	, , , , , , , , , , , , , , , , , , , ,			
Test Requirement:		47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency	10	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 4015		Peak	1MHz	3MHz	Peak			
	Above 1GHz		Peak	1MHz	10kHz	Average			
Limit:	Frequency	ncy Field		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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Antenna Antenna Tower

Artenna Ground Reference Plane

Test Receiver Ground Reference Plane

Test Receiver Ground Reference Plane

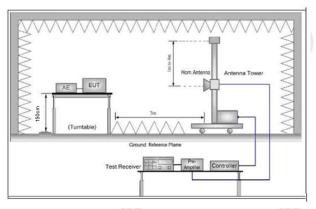


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 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 radiation.
 - 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.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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 positionin 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 th limit specified, then testing could be stopped and the peak values of th EUT would be reported. Otherwise the emissions that did not have 10dl margin would be re-tested one by one using peak, quasi-peak of 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 cas 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 meter) and the rotatable table was turned from 0 degrees to 36 degrees to find the maximum reading.
	horizontal and vertical polarizations of the antenna are set to make th measurement.

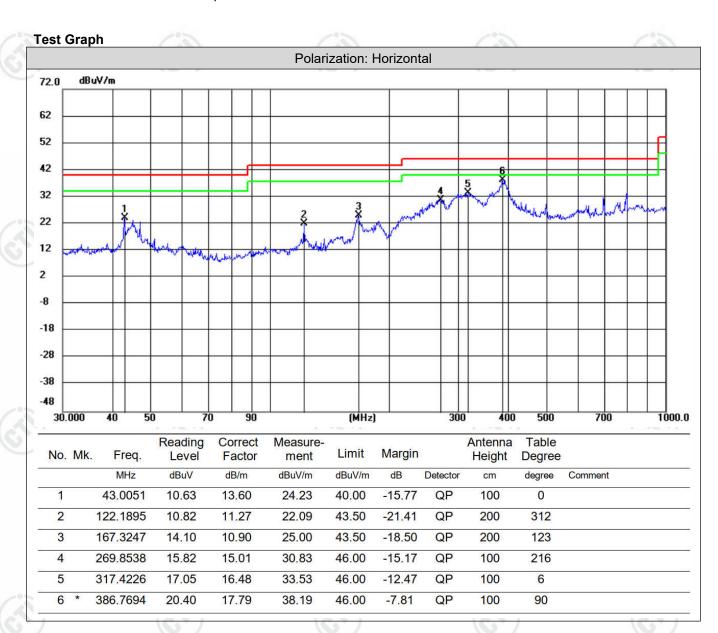






Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode a was recorded in the report.

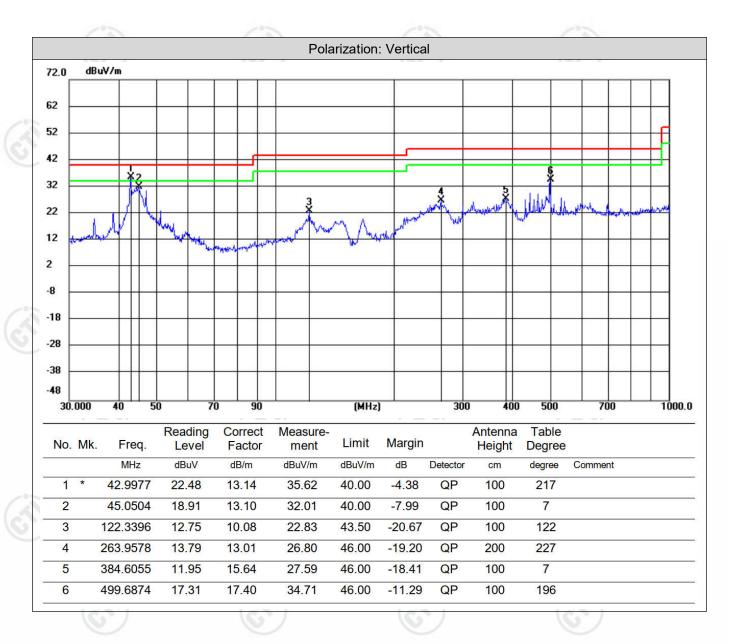


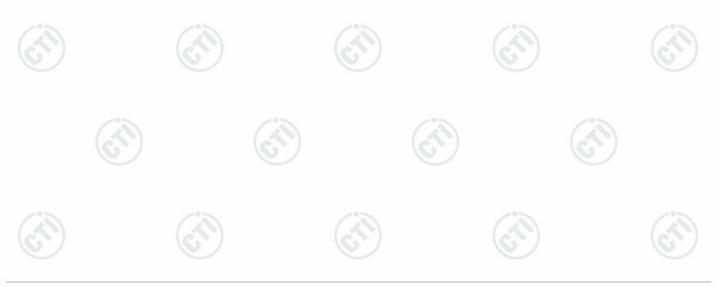




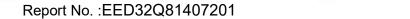








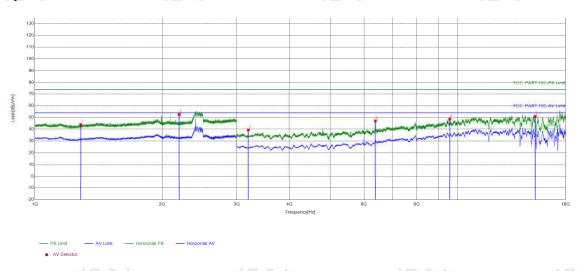




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Radiated Spurious Emission above 1GHz:

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	\		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	D 14	D. L. it.	D
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	1283.2283	6.75	37.24	43.99	74.00	30.01	PASS	Horizontal	PK
	2	2194.1194	9.85	42.63	52.48	74.00	21.52	PASS	Horizontal	PK
-	3	3197.0131	-18.46	57.94	39.48	74.00	34.52	PASS	Horizontal	PK
	4	6387.2258	-6.83	53.99	47.16	74.00	26.84	PASS	Horizontal	PK
	5	9576.4384	2.85	45.70	48.55	74.00	25.45	PASS	Horizontal	PK
	6	15251.8168	13.43	37.47	50.90	74.00	23.10	PASS	Horizontal	PK









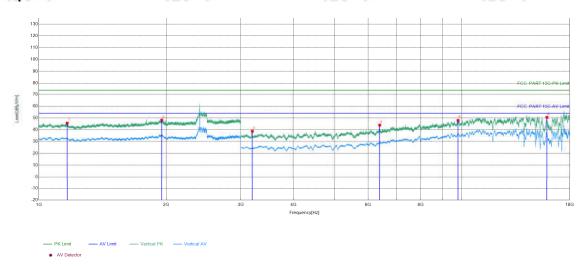






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T	BLE 1M GFSK	T F	0.4000411-	
Test_Mode	Transmitting	Test_Frequency	2402MHz	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	D 14	Delection	D
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	1166.6167	7.18	38.46	45.64	74.00	28.36	PASS	Vertical	PK
	2	1952.2952	12.25	36.00	48.25	74.00	25.75	PASS	Vertical	PK
	3	3197.0131	-18.46	57.21	38.75	74.00	35.25	PASS	Vertical	PK
9	4	6397.2265	-6.40	50.34	43.94	74.00	30.06	PASS	Vertical	PK
122	5	9801.4534	4.62	43.30	47.92	74.00	26.08	PASS	Vertical	PK
	6	15899.86	10.42	40.13	50.55	74.00	23.45	PASS	Vertical	PK









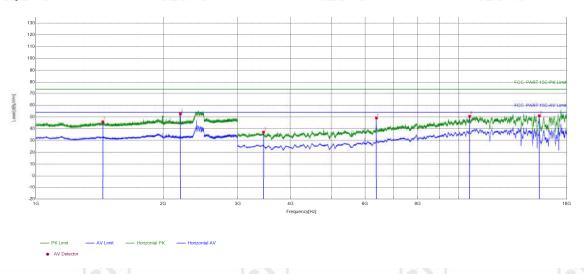






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Test Mode	BLE 1M GFSK	Test_Frequency	2440MHz	
Test_Mode	Transmitting	rest_i requericy	2440101112	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



	Suspected List									
ı	NO	Freq.	Factor	Reading	Level	Limit	Margin	D 14	Delection	D
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	1439.844	8.34	37.55	45.89	74.00	28.11	PASS	Horizontal	PK
	2	2195.9196	9.83	42.72	52.55	74.00	21.45	PASS	Horizontal	PK
	3	3454.0303	-16.70	53.85	37.15	74.00	36.85	PASS	Horizontal	PK
8	4	6387.2258	-6.83	56.06	49.23	74.00	24.77	PASS	Horizontal	PK
	5	10615.5077	6.13	44.47	50.60	74.00	23.40	PASS	Horizontal	PK
	6	15504.8337	10.75	40.27	51.02	74.00	22.98	PASS	Horizontal	PK









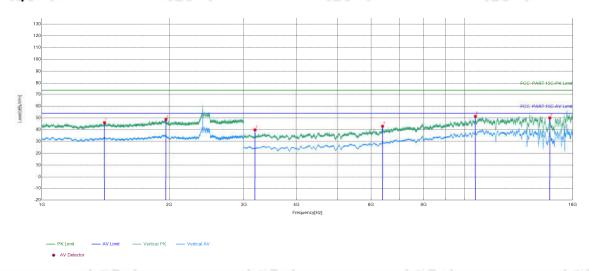








Test Mode	BLE 1M GFSK	Test Frequency	2440MHz	
Test_Mode	Transmitting	rest_i requeitoy	24401011 12	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



Su	Suspected List									
N.		Freq.	Factor	Reading	Level	Limit	Margin	D 14	D. L. Tr.	D
NO	5	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
1		1406.2406	8.41	37.62	46.03	74.00	27.97	PASS	Vertical	PK
2		1965.0965	11.48	37.29	48.77	74.00	25.23	PASS	Vertical	PK
3	;	3191.0127	-18.52	58.47	39.95	74.00	34.05	PASS	Vertical	PK
4		6391.2261	-6.66	49.69	43.03	74.00	30.97	PASS	Vertical	PK
5	,	10596.5064	6.87	44.61	51.48	74.00	22.52	PASS	Vertical	PK
6	;	15895.8597	10.28	39.82	50.10	74.00	23.90	PASS	Vertical	PK









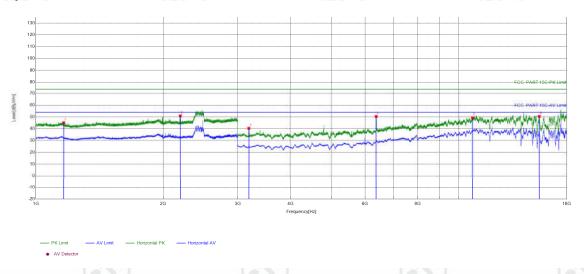






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Test Mode	BLE 1M GFSK	Test_Frequency	2480MHz	
Test_Mode	Transmitting	rest_i requeitey	2400101112	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



	Suspe	Suspected List								
1	NO	Freq.	Factor	Reading	Level	Limit	Margin	D 14	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result		
	1	1163.8164	7.27	37.81	45.08	74.00	28.92	PASS	Horizontal	PK
	2	2195.1195	9.83	41.09	50.92	74.00	23.08	PASS	Horizontal	PK
	3	3188.0125	-18.55	58.91	40.36	74.00	33.64	PASS	Horizontal	PK
9	4	6378.2252	-7.22	57.61	50.39	74.00	23.61	PASS	Horizontal	PK
	5	10774.5183	5.83	43.47	49.30	74.00	24.70	PASS	Horizontal	PK
	6	15501.8335	10.97	39.46	50.43	74.00	23.57	PASS	Horizontal	PK





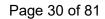




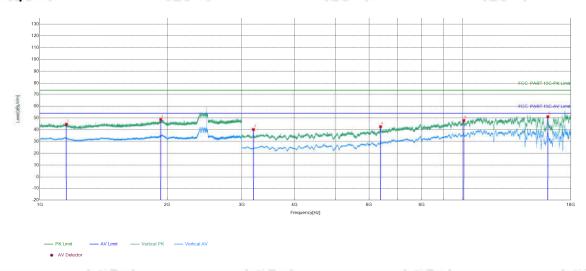








Test Mode	BLE 1M GFSK	Test_Frequency	2480MHz	
Test_Mode	Transmitting	rest_i requeitey	2400101112	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



	Suspe	ected List								
ı	NO	Freq.	Factor	Reading	Level	Limit	Margin	Descrip	Delection	D
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	1155.0155	7.57	37.12	44.69	74.00	29.31	PASS	Vertical	PK
	2	1931.0931	11.82	36.89	48.71	74.00	25.29	PASS	Vertical	PK
	3	3198.0132	-18.45	58.66	40.21	74.00	33.79	PASS	Vertical	PK
	4	6392.2261	-6.62	49.27	42.65	74.00	31.35	PASS	Vertical	PK
	5	10058.4706	4.69	43.17	47.86	74.00	26.14	PASS	Vertical	PK
	6	15895.8597	10.28	40.81	51.09	74.00	22.91	PASS	Vertical	PK





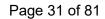




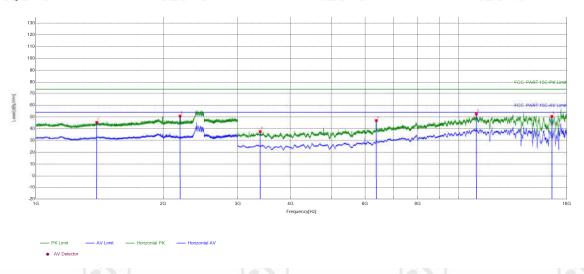








Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



Su	ısp	ected List								
N.		Freq.	Factor	Reading	Level	Limit	Margin	D 14	D. L. Ji	Remark
No		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	
1		1393.2393	8.35	37.02	45.37	74.00	28.63	PASS	Horizontal	PK
2	2	2192.1192	9.88	40.93	50.81	74.00	23.19	PASS	Horizontal	PK
3	3	3392.0261	-17.24	54.88	37.64	74.00	36.36	PASS	Horizontal	PK
4	ļ.	6385.2257	-6.92	53.90	46.98	74.00	27.02	PASS	Horizontal	PK
5	5	11002.5335	7.28	45.22	52.50	74.00	21.50	PASS	Horizontal	PK
6	6	16603.9069	11.08	39.40	50.48	74.00	23.52	PASS	Horizontal	PK









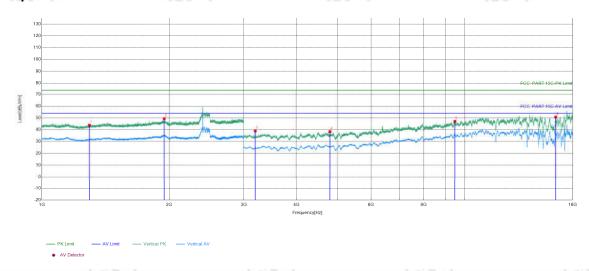






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Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



	Suspe	cted List								
ı	NO	Freq.	Factor	Reading	Level	Limit	Margin	D !!	D. L. Cita	D
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	1295.2295	7.03	36.82	43.85	74.00	30.15	PASS	Vertical	PK
	2	1946.6947	12.29	37.09	49.38	74.00	24.62	PASS	Vertical	PK
	3	3195.013	-18.47	57.47	39.00	74.00	35.00	PASS	Vertical	PK
	4	4798.1199	-12.74	51.14	38.40	74.00	35.60	PASS	Vertical	PK
	5	9478.4319	3.21	43.92	47.13	74.00	26.87	PASS	Vertical	PK
	6	16406.8938	9.99	40.79	50.78	74.00	23.22	PASS	Vertical	PK





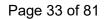




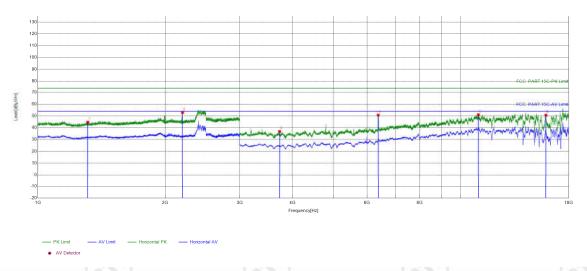








Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2440MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18		
Remark	1				



Susp	ected List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Donali	Delection	Remark
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	
1	1311.6312	7.29	37.45	44.74	74.00	29.26	PASS	Horizontal	PK
2	2197.9198	9.80	43.09	52.89	74.00	21.11	PASS	Horizontal	PK
3	3729.0486	-16.53	53.35	36.82	74.00	37.18	PASS	Horizontal	PK
4	6380.2253	-7.13	57.85	50.72	74.00	23.28	PASS	Horizontal	PK
5	11005.5337	7.22	43.79	51.01	74.00	22.99	PASS	Horizontal	PK
6	15898.8599	10.38	40.25	50.63	74.00	23.37	PASS	Horizontal	PK





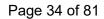




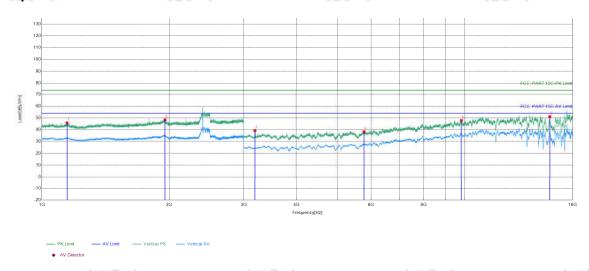








Test Mode	BLE 2M GFSK	Test_Frequency	2440MHz	
Test_Ivioue	Transmitting	rest_i requericy	2440IVIITZ	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



Suspe	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	D !!	D. L. Cita	D
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	t Polarity	Remark
1	1146.8147	7.63	38.17	45.80	74.00	28.20	PASS	Vertical	PK
2	1955.0955	12.08	36.37	48.45	74.00	25.55	PASS	Vertical	PK
3	3189.0126	-18.54	57.90	39.36	74.00	34.64	PASS	Vertical	PK
4	5776.1851	-9.38	47.68	38.30	74.00	35.70	PASS	Vertical	PK
5	9815.4544	4.43	43.42	47.85	74.00	26.15	PASS	Vertical	PK
6	15887.8592	10.03	41.05	51.08	74.00	22.92	PASS	Vertical	PK









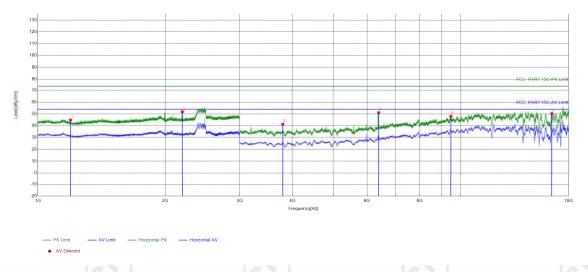








Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



Susp	ected List								
	Freq.	Factor	Reading	Level	Limit	Margin	D If	Delection	Remark
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	
1	1194.2194	6.26	38.64	44.90	74.00	29.10	PASS	Horizontal	PK
2	2195.5196	9.83	42.08	51.91	74.00	22.09	PASS	Horizontal	PK
3	3793.0529	-15.48	56.89	41.41	74.00	32.59	PASS	Horizontal	PK
4	6398.2265	-6.35	57.46	51.11	74.00	22.89	PASS	Horizontal	PK
5	9477.4318	3.23	44.80	48.03	74.00	25.97	PASS	Horizontal	PK
6	16417.8945	9.78	40.50	50.28	74.00	23.72	PASS	Horizontal	PK









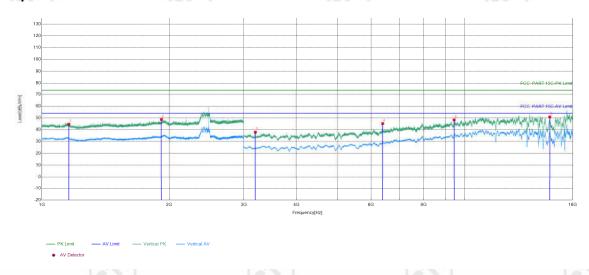






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Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



	Suspe	Suspected List										
ı	NO	Freq.	Factor	Reading	Level	Limit	Margin	D !!	D. L. die	D		
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark		
	1	1157.8158	7.47	37.27	44.74	74.00	29.26	PASS	Vertical	PK		
	2	1917.2917	11.40	37.28	48.68	74.00	25.32	PASS	Vertical	PK		
	3	3197.0131	-18.46	56.40	37.94	74.00	36.06	PASS	Vertical	PK		
	4	6396.2264	-6.44	51.68	45.24	74.00	28.76	PASS	Vertical	PK		
	5	9439.4293	2.93	45.42	48.35	74.00	25.65	PASS	Vertical	PK		
	6	15887.8592	10.03	40.82	50.85	74.00	23.15	PASS	Vertical	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.

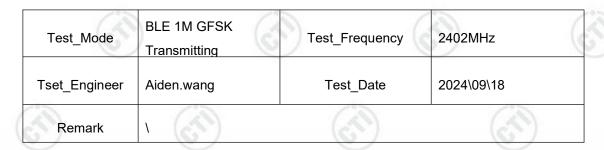


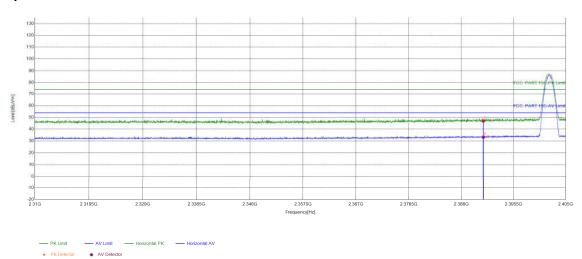




Restricted bands:

Test plot as follows:





Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Pocult	Polarity	Remark
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
1	2390	11.29	35.72	47.01	74.00	26.99	PASS	Horizontal	PK
2	2390	11.29	21.95	33.24	54.00	20.76	PASS	Horizontal	AV









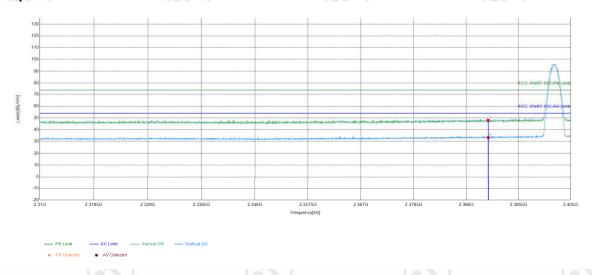




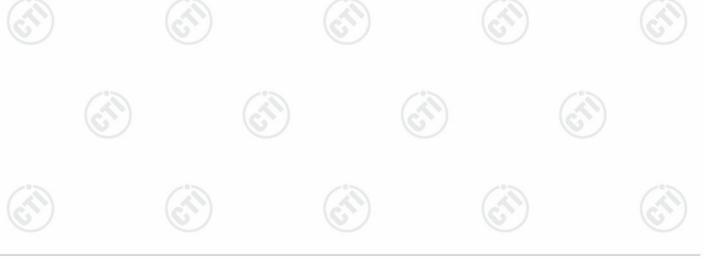




T	BLE 1M GFSK	T F	0.4000411-	
Test_Mode	Transmitting	Test_Frequency	2402MHz	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18	
Remark	1			



Suspecte	Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark	
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folality	Nemaik	
1	2390	11.29	36.69	47.98	74.00	26.02	PASS	Vertical	PK	
2	2390	11.29	21.97	33.26	54.00	20.74	PASS	Vertical	AV	

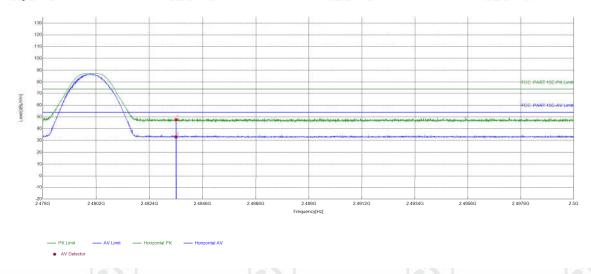






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Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18		
Remark	1				



Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
1	2483.5	11.32	36.40	47.72	74.00	26.28	PASS	Horizontal	PK
2	2483.5	11.32	21.71	33.03	54.00	20.97	PASS	Horizontal	AV

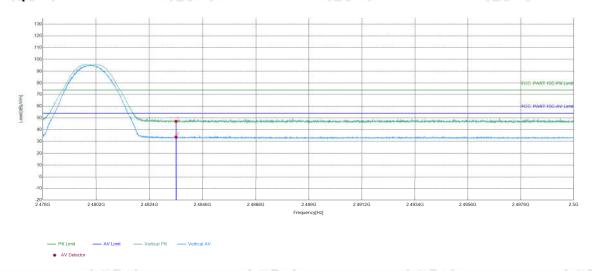






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Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18		
Remark	1				



Sı	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
	1	2483.5	11.32	35.85	47.17	74.00	26.83	PASS	Vertical	PK
	2	2483.5	11.32	22.43	33.75	54.00	20.25	PASS	Vertical	AV

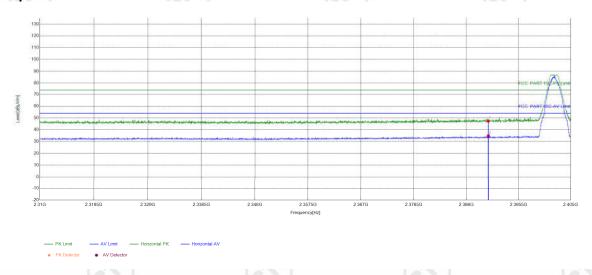




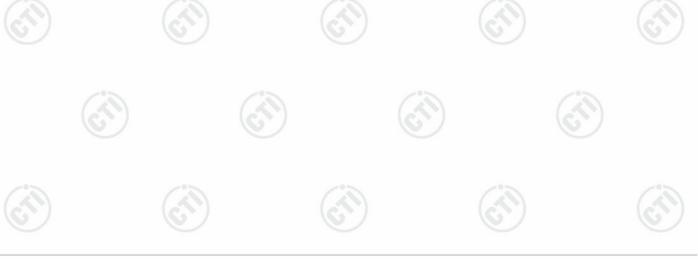


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Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



Suspecte	Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark	
4	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	D400		DIK	
1	2390	11.29	36.14	47.43	74.00	26.57	PASS	Horizontal	PK	
2	2390	11.29	23.47	34.76	54.00	19.24	PASS	Horizontal	AV	

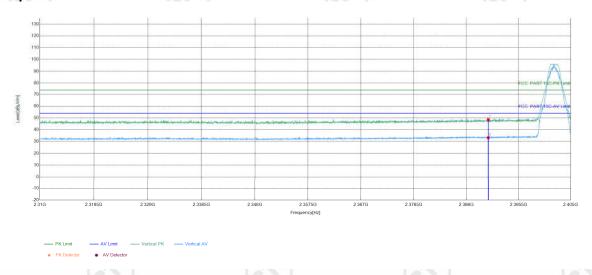




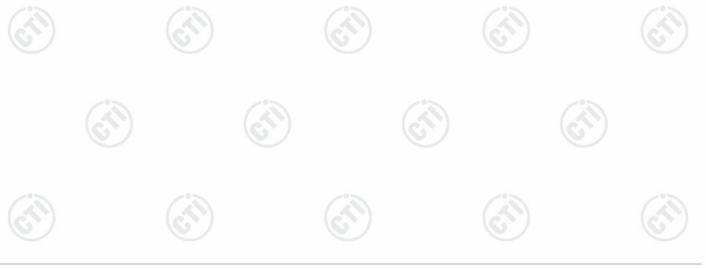




Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
1	2390	11.29	37.29	48.58	74.00	25.42	PASS	Vertical	PK
2	2390	11.29	21.88	33.17	54.00	20.83	PASS	Vertical	AV

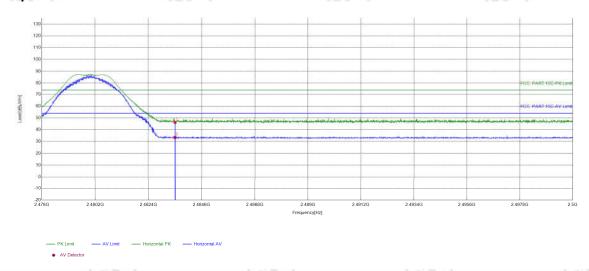








Test_Mode	BLE 2M GFSK	Test_Frequency	2480MHz		
	Transmitting		Canal Canal		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18		
Remark	1				



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
ľ	1	[MHz] 2483.5	[dB] 11.32	[dBµV] 34.93	[dBµV/m] 46.25	[dBµV/m] 74.00	[dB] 27.75	PASS	Horizontal	PK
-	I	2403.3	11.32	34.93	40.25	74.00	21.13	PASS	Horizoniai	FN
L	2	2483.5	11.32	22.10	33.42	54.00	20.58	PASS	Horizontal	AV

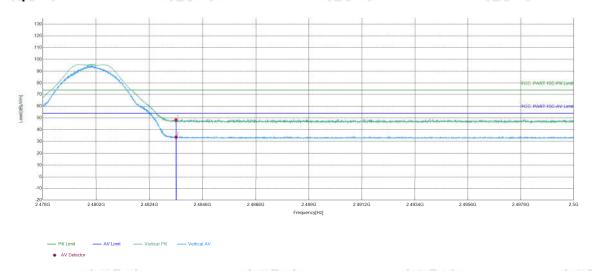








Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\18
Remark	1		



Suspected List									
NO	Freq.	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	37.20	48.52	74.00	25.48	PASS	Vertical	PK
2	2483.5	11.32	22.41	33.73	54.00	20.27	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















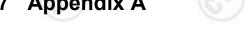






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Appendix A



Refer to Appendix: Bluetooth LE of EED32Q81407201































































































