

TEST REPORT

Product : Smart LCD Gimbal Projector
Trade mark :  BladeCine
Model/Type reference : Cube 600, Cube 600 Pro,
Cube 600 Max, Cube 600 Plus
Serial Number : N/A
Report Number : EED32Q81115001
FCC ID : 2BKWN-CUBE600
Date of Issue : Sep. 24, 2024
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

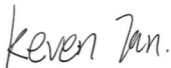
Prepared for:

Valerion Technology USA Co., Ltd
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Sep. 24, 2024



Check No.: 2703300724

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2 Version

Version No.	Date	Description
00	Sep. 24, 2024	Original

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)	NOTE
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	NOTE
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	NOTE
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	NOTE
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	NOTE
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

Remark:

NOTE: The test data refer to the module's report of FCC ID:2AR82-SKIWB663U21.

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.: Cube 600, Cube 600 Pro, Cube 600 Max, Cube 600 Plus

Only the model Cube 600 was tested, their electrical circuit design, layout, components used and internal wiring are identical. Only the color of the appearance and package are different.

4 General Information

4.1 Client Information

Applicant:	Valerion Technology USA Co., Ltd
Address of Applicant:	1312 17th Street, Unit Num 2955, Denver, CO 80202, United States.
Manufacturer:	Shenzhen WeProTalk Technology Co., Ltd
Address of Manufacturer:	1902, 2501, Yihua Financial Technology Building, No. 3939, Baishi Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen
Factory:	Shenzhen WeProTalk Technology Co., Ltd
Address of Factory:	1902, 2501, Yihua Financial Technology Building, No. 3939, Baishi Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen

4.2 General Description of EUT

Product Name:	Smart LCD Gimbal Projector	
Model No.:	Cube 600, Cube 600 Pro, Cube 600 Max, Cube 600 Plus	
Test Model No.:	Cube 600	
Trade mark:	 BladeCine	
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Transfer Rate:	☒ 1Mbps ☒ 2Mbps	
Number of Channel:	40	
Antenna Type:	Dipole Antenna	
Antenna Gain:	2.34dBi	
Power Supply:	Adapter:	AC 120V
Test Voltage:	AC 120V	
Sample Received Date:	Aug. 09, 2024	
Sample tested Date:	Aug. 09, 2024 to Aug. 24, 2024	

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

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 Software Settings:				
Test Software:		N/A		
EUT Power Grade:		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	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

4.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric 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	HP	DESKTOP-H31GDCQ	FCC&CE	CTI

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	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

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	09-05-2023	09-04-2024
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 disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	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	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESC17	100938-003	09/22/2023	09/21/2024
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	04/16/2024	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	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

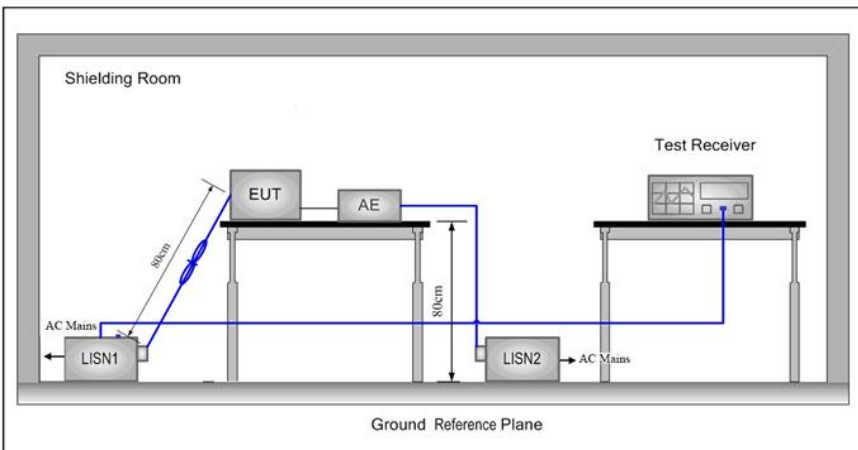
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	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	07-03-2024	07-02-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
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	---	---
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	---	---
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	---	---

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 Dipole antenna. The best case gain of the antenna is 2.34dBi.	

6.2 Conducted Emissions

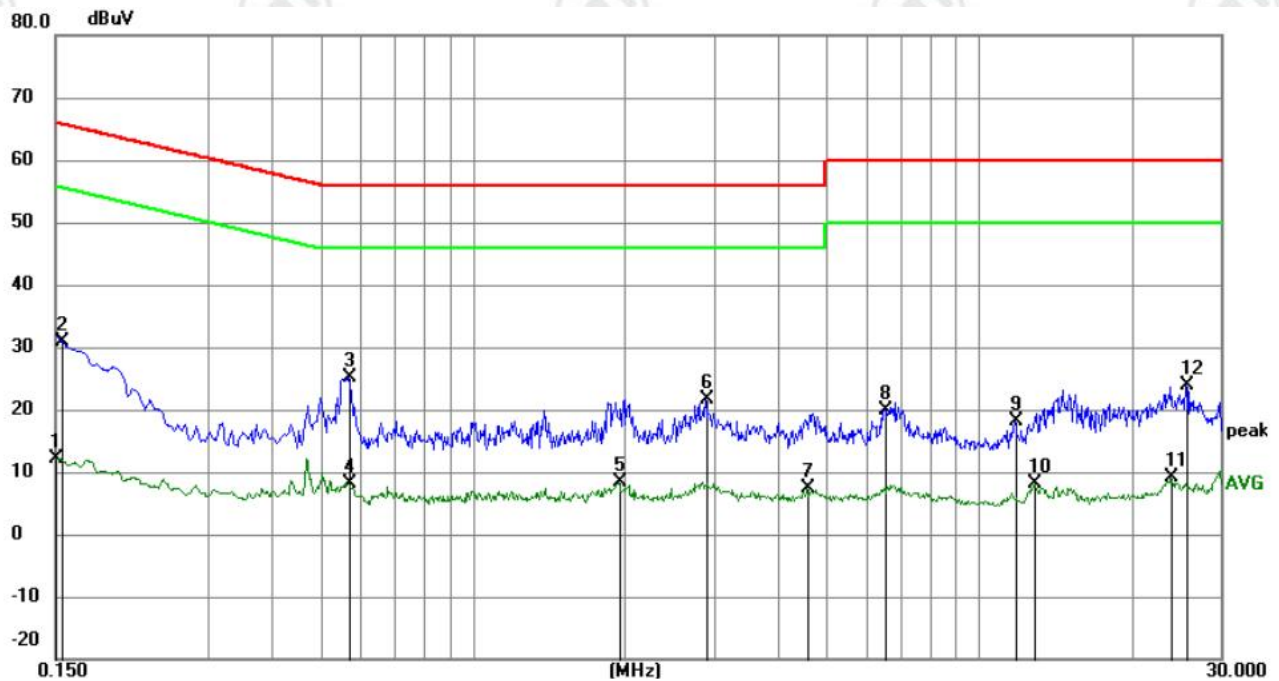
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		
Test Mode:	All modes were tested, only the worst case mode a was recorded in the report.		

Test Results:

Pass

Measurement Data

Live line:

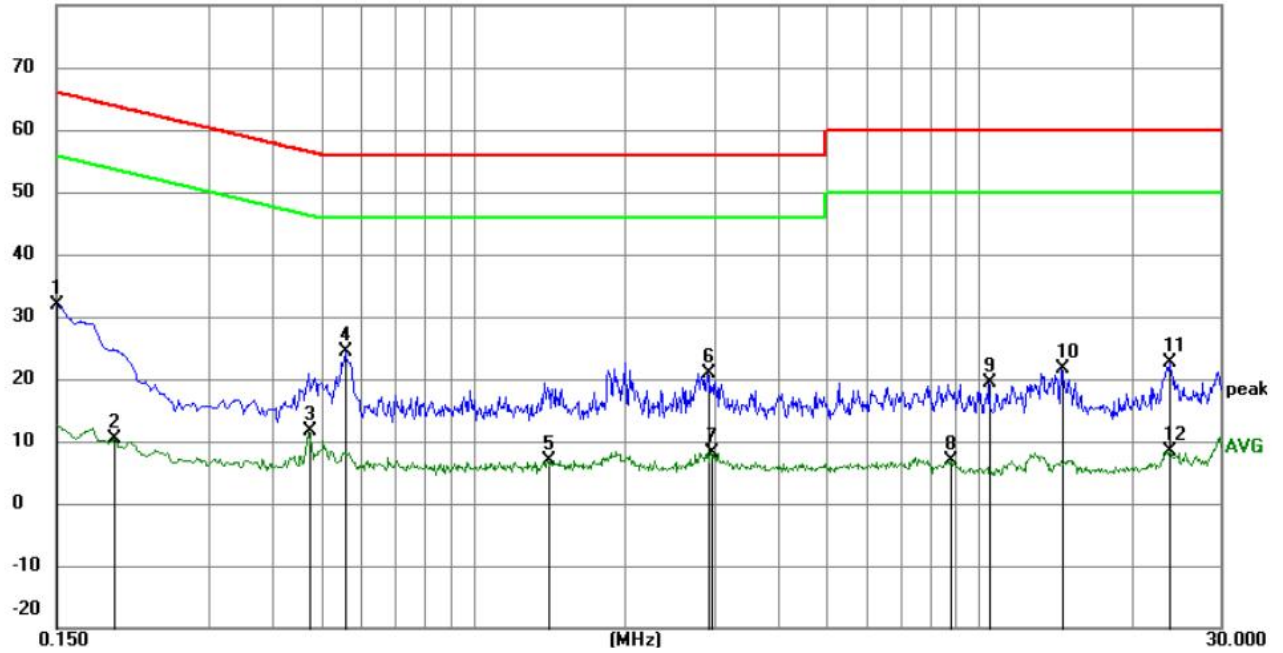


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	2.41	9.84	12.25	56.00	-43.75	AVG	
2		0.1548	20.91	9.85	30.76	65.74	-34.98	QP	
3	*	0.5685	15.52	9.65	25.17	56.00	-30.83	QP	
4		0.5685	-1.43	9.65	8.22	46.00	-37.78	AVG	
5		1.9410	-1.30	9.75	8.45	46.00	-37.55	AVG	
6		2.8950	11.87	9.78	21.65	56.00	-34.35	QP	
7		4.5960	-2.54	9.83	7.29	46.00	-38.71	AVG	
8		6.5175	9.93	9.85	19.78	60.00	-40.22	QP	
9		11.7825	8.28	9.84	18.12	60.00	-41.88	QP	
10		12.9075	-1.78	9.84	8.06	50.00	-41.94	AVG	
11		23.9280	-0.93	9.94	9.01	50.00	-40.99	AVG	
12		25.6695	13.86	9.90	23.76	60.00	-36.24	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.

Neutral line:
80.0 dBuV



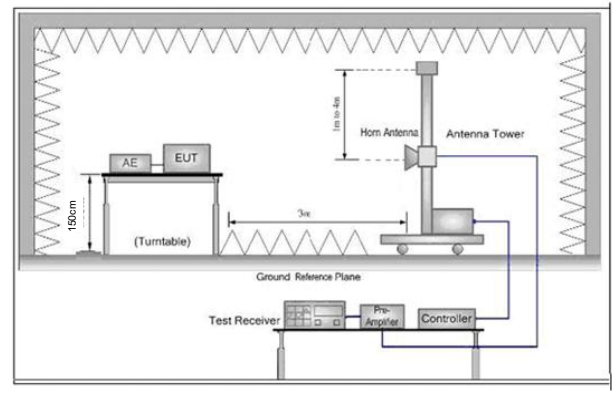
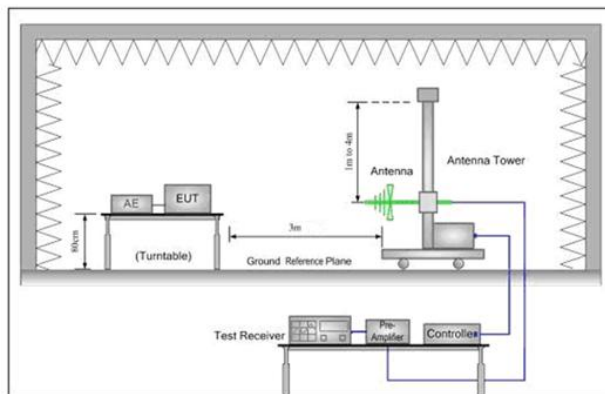
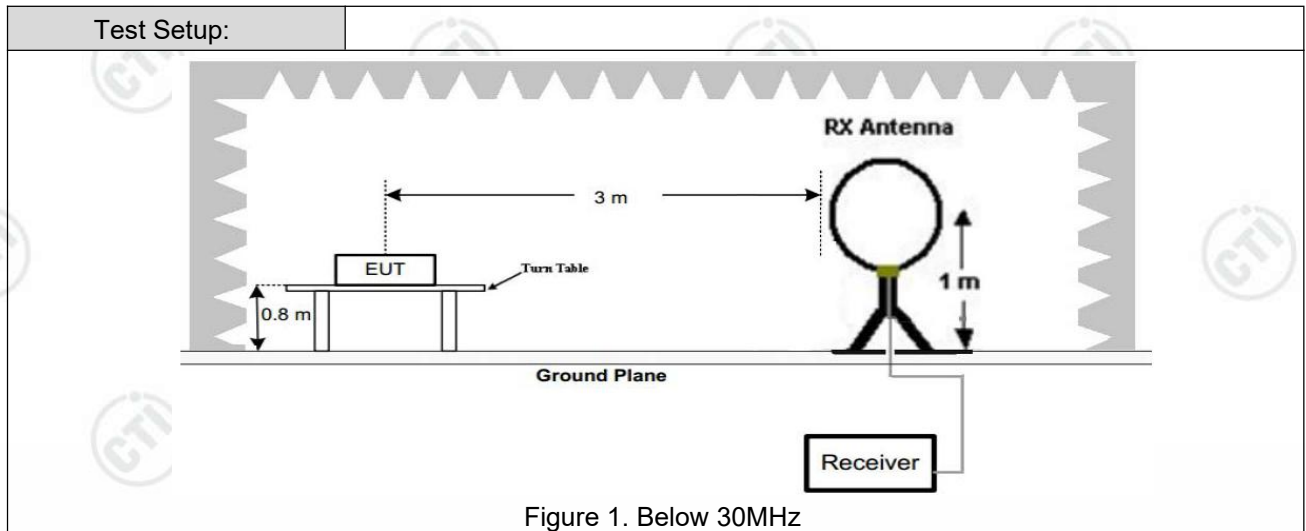
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	22.15	9.84	31.99	66.00	-34.01	QP	
2		0.1949	0.59	9.87	10.46	53.83	-43.37	AVG	
3		0.4740	1.92	9.78	11.70	46.44	-34.74	AVG	
4	*	0.5595	14.69	9.67	24.36	56.00	-31.64	QP	
5		1.4100	-2.77	9.74	6.97	46.00	-39.03	AVG	
6		2.9130	11.16	9.78	20.94	56.00	-35.06	QP	
7		2.9580	-1.59	9.78	8.19	46.00	-37.81	AVG	
8		8.7990	-2.86	9.84	6.98	50.00	-43.02	AVG	
9		10.4640	9.51	9.83	19.34	60.00	-40.66	QP	
10		14.5725	11.68	9.85	21.53	60.00	-38.47	QP	
11		23.7840	12.74	9.95	22.69	60.00	-37.31	QP	
12		23.7840	-1.46	9.95	8.49	50.00	-41.51	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.

6.3 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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 chamber. 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both

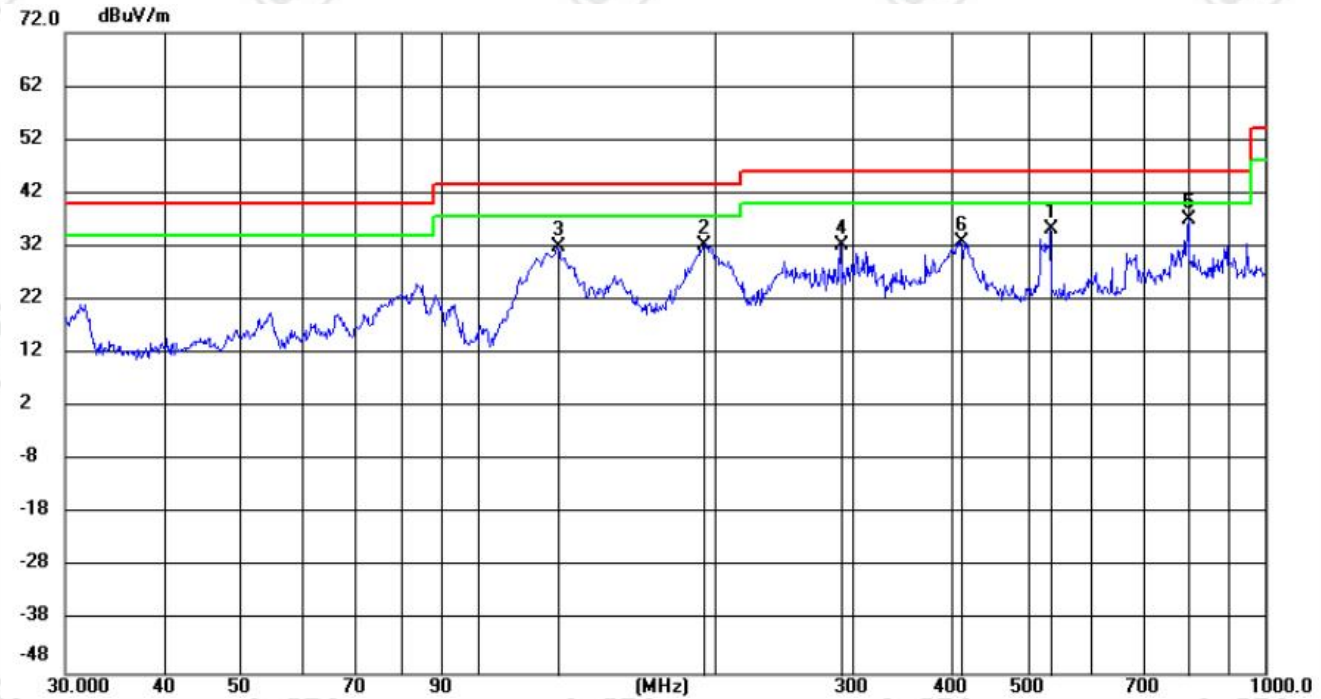
	horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass

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:

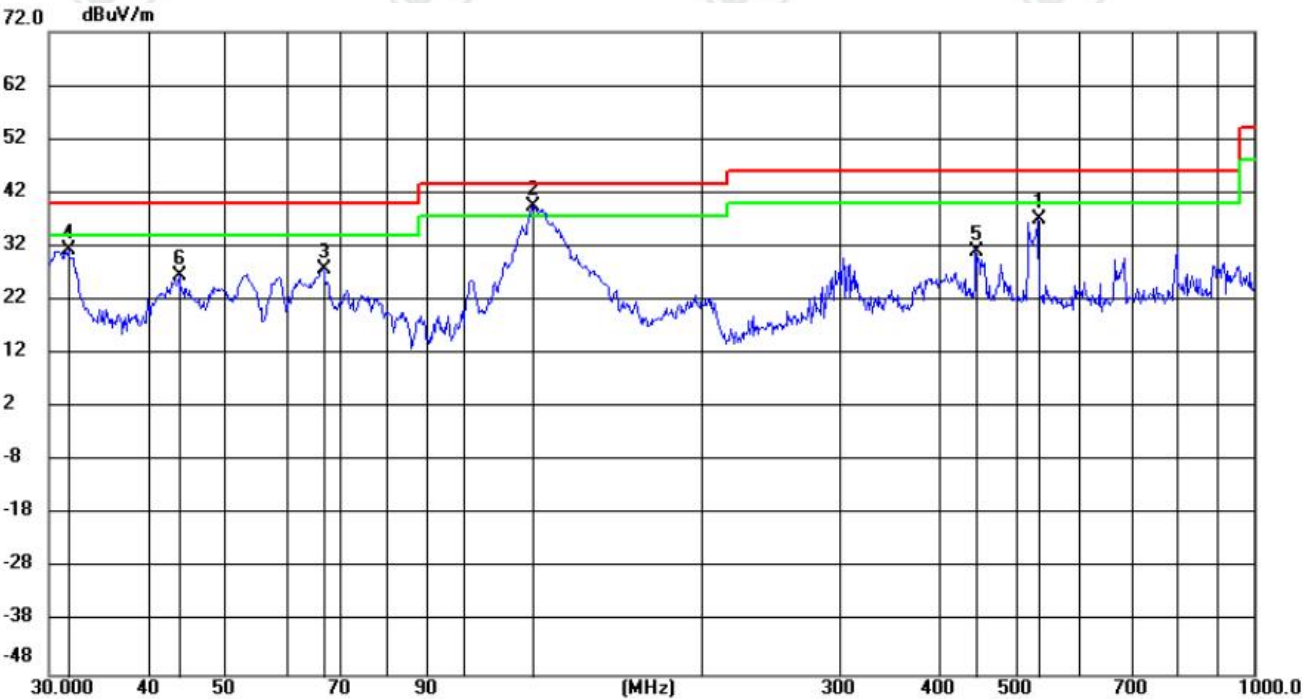
Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		534.4876	14.58	20.67	35.25	46.00	-10.75	QP	199	352
2		194.3171	20.15	12.13	32.28	43.50	-11.22	QP	199	352
3		126.6834	21.49	10.48	31.97	43.50	-11.53	QP	199	331
4		289.5091	16.36	15.75	32.11	46.00	-13.89	QP	100	39
5	*	799.5402	12.46	24.49	36.95	46.00	-9.05	QP	100	70
6		410.4544	14.51	18.23	32.74	46.00	-13.26	QP	199	33

Vertical:

Test Graph



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
1		534.3938	18.98	18.16	37.14	46.00	-8.86	QP	100	267
2	*	122.6833	29.32	10.02	39.34	43.50	-4.16	QP	100	118
3		66.5455	17.28	10.60	27.88	40.00	-12.12	QP	200	82
4		31.8259	19.14	12.14	31.28	40.00	-8.72	QP	100	43
5		445.2415	14.62	16.58	31.20	46.00	-14.80	QP	100	267
6		43.8349	13.34	13.12	26.46	40.00	-13.54	QP	100	352

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:			Bluetooth LE GFSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1528.2528	8.11	36.82	44.93	74.00	29.07	Pass	H	PK
2	4091.0727	-13.79	49.79	36.00	74.00	38.00	Pass	H	PK
3	6656.2438	-7.17	54.21	47.04	74.00	26.96	Pass	H	PK
4	9258.4172	1.83	44.01	45.84	74.00	28.16	Pass	H	PK
5	10591.5061	6.61	42.02	48.63	74.00	25.37	Pass	H	PK
6	15247.8165	13.63	37.15	50.78	74.00	23.22	Pass	H	PK
7	1450.6451	8.32	37.34	45.66	74.00	28.34	Pass	V	PK
8	4099.0733	-13.27	49.77	36.50	74.00	37.50	Pass	V	PK
9	6899.26	-3.91	46.30	42.39	74.00	31.61	Pass	V	PK
10	9439.4293	2.93	43.36	46.29	74.00	27.71	Pass	V	PK
11	11961.5974	6.24	44.22	50.46	74.00	23.54	Pass	V	PK
12	14449.7633	13.62	37.85	51.47	74.00	22.53	Pass	V	PK

Mode:			Bluetooth LE GFSK Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1605.4605	8.49	36.30	44.79	74.00	29.21	Pass	H	PK
2	3692.0461	-16.19	55.82	39.63	74.00	34.37	Pass	H	PK
3	5411.1607	-10.49	48.51	38.02	74.00	35.98	Pass	H	PK
4	6666.2444	-6.81	55.47	48.66	74.00	25.34	Pass	H	PK
5	8740.3827	0.19	44.95	45.14	74.00	28.86	Pass	H	PK
6	12001.6001	6.06	43.66	49.72	74.00	24.28	Pass	H	PK
7	1453.0453	8.31	37.49	45.80	74.00	28.20	Pass	V	PK
8	4695.113	-11.61	49.35	37.74	74.00	36.26	Pass	V	PK
9	7340.2894	-3.74	46.55	42.81	74.00	31.19	Pass	V	PK
10	10281.4854	4.82	43.45	48.27	74.00	25.73	Pass	V	PK
11	14249.75	15.07	37.75	52.82	74.00	21.18	Pass	V	PK
12	15890.8594	10.13	41.17	51.30	74.00	22.70	Pass	V	PK

Mode:			Bluetooth LE GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1584.4584	8.39	36.65	45.04	74.00	28.96	Pass	H	PK
2	4218.0812	-14.60	53.10	38.50	74.00	35.50	Pass	H	PK
3	6661.2441	-6.99	53.94	46.95	74.00	27.05	Pass	H	PK
4	9169.4113	0.92	44.73	45.65	74.00	28.35	Pass	H	PK
5	11954.597	6.25	43.65	49.90	74.00	24.10	Pass	H	PK
6	13255.6837	9.82	41.34	51.16	74.00	22.84	Pass	H	PK
7	1429.843	8.36	37.36	45.72	74.00	28.28	Pass	V	PK
8	1953.8954	12.15	36.01	48.16	74.00	25.84	Pass	V	PK
9	5263.1509	-11.30	48.59	37.29	74.00	36.71	Pass	V	PK
10	7363.2909	-3.74	46.97	43.23	74.00	30.77	Pass	V	PK
11	9805.4537	4.56	43.20	47.76	74.00	26.24	Pass	V	PK
12	12874.6583	7.66	42.36	50.02	74.00	23.98	Pass	V	PK

Remark:

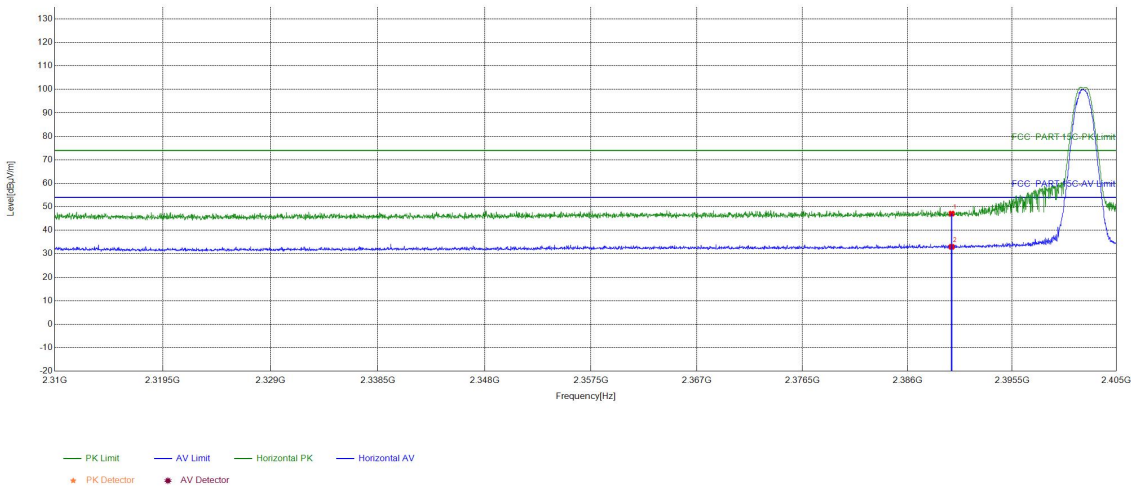
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz 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:

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

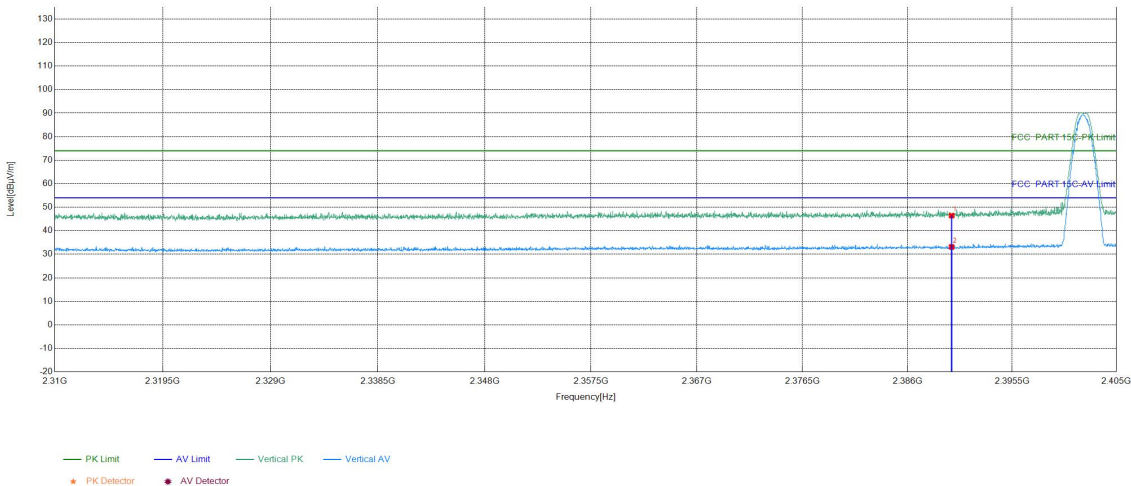
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	11.29	35.80	47.09	74.00	26.91	PASS	Horizontal	PK
2	2390	11.29	21.66	32.95	54.00	21.05	PASS	Horizontal	AV

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

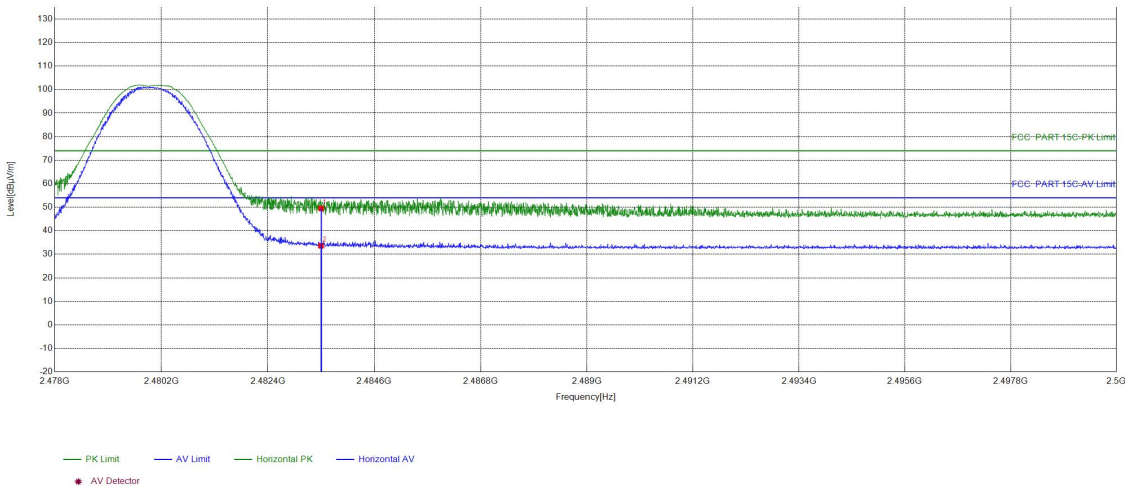
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	11.29	35.13	46.42	74.00	27.58	PASS	Vertical	PK
2	2390	11.29	21.83	33.12	54.00	20.88	PASS	Vertical	AV

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

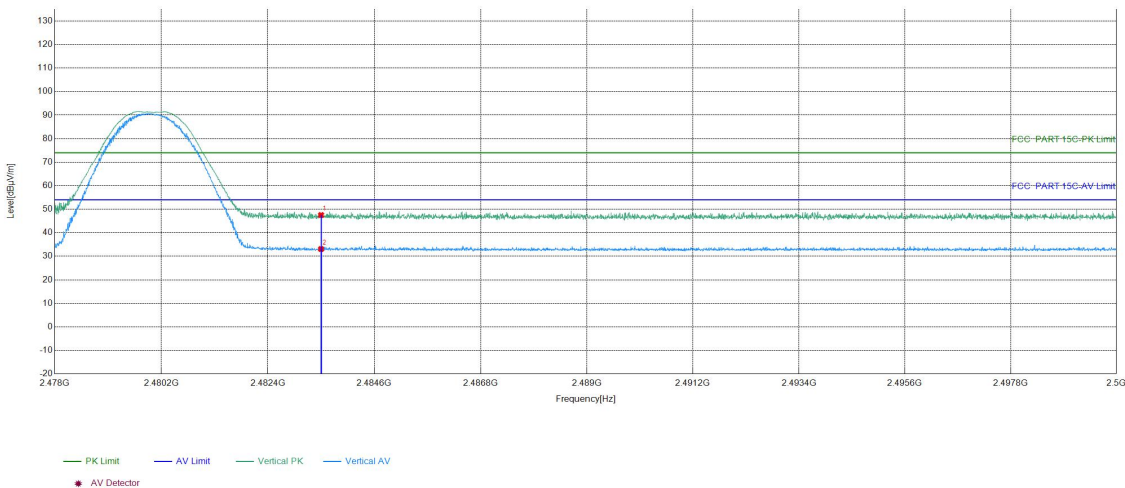
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	38.16	49.48	74.00	24.52	PASS	Horizontal	PK
2	2483.5	11.32	22.27	33.59	54.00	20.41	PASS	Horizontal	AV

Test_Mode	BLE 1M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

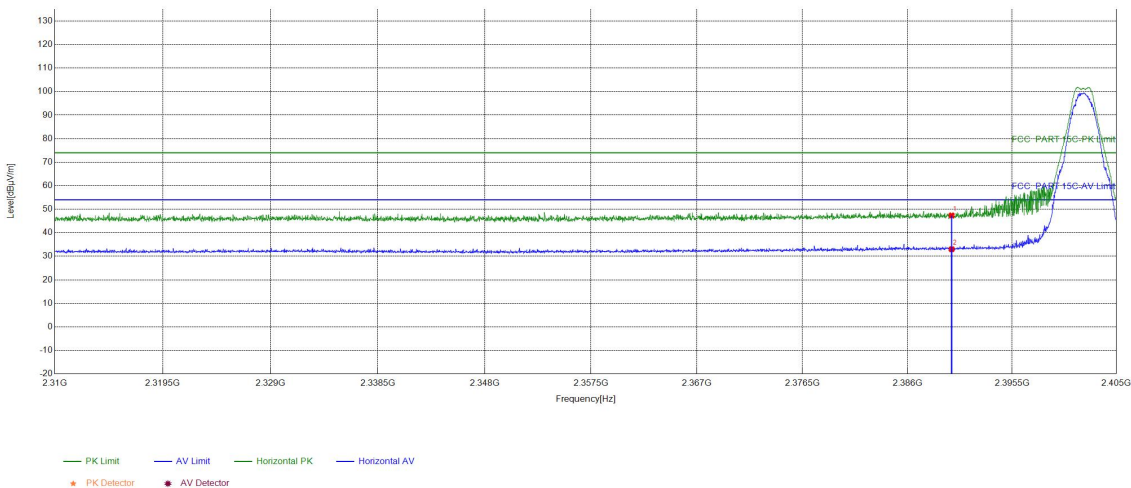
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	36.21	47.53	74.00	26.47	PASS	Vertical	PK
2	2483.5	11.32	21.76	33.08	54.00	20.92	PASS	Vertical	AV

Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

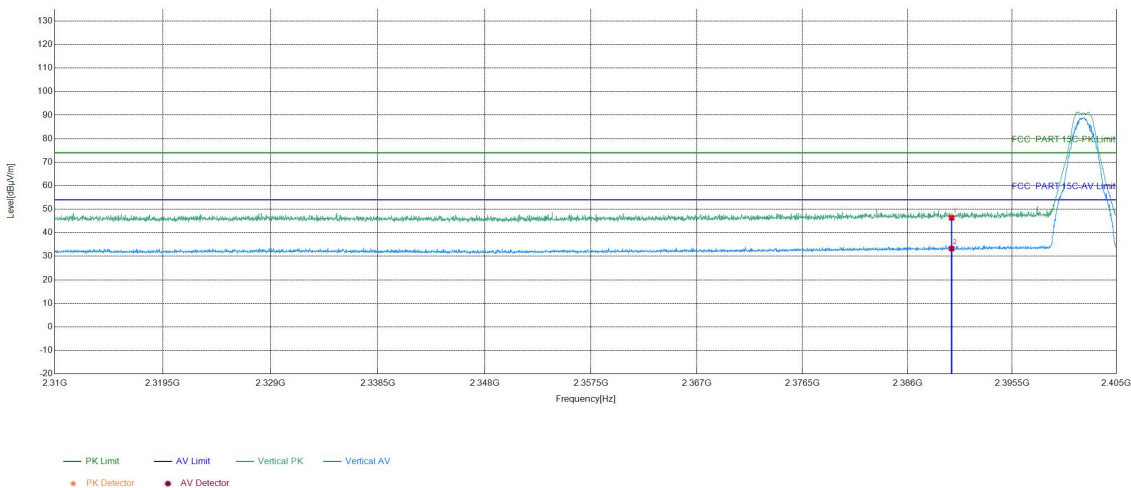
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	11.29	36.09	47.38	74.00	26.62	PASS	Horizontal	PK
2	2390	11.29	21.70	32.99	54.00	21.01	PASS	Horizontal	AV

Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2402MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

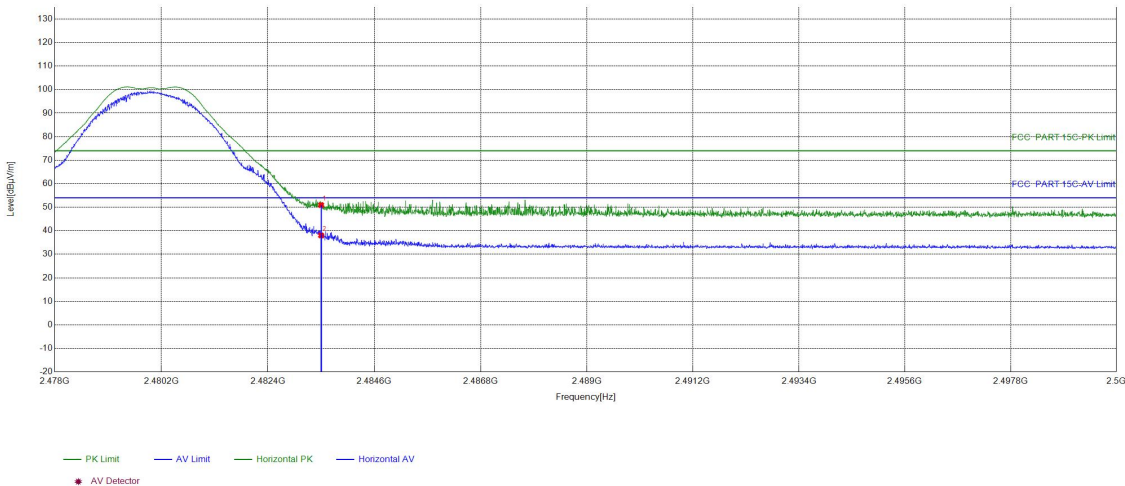
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	11.29	35.05	46.34	74.00	27.66	PASS	Vertical	PK
2	2390	11.29	21.98	33.27	54.00	20.73	PASS	Vertical	AV

Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

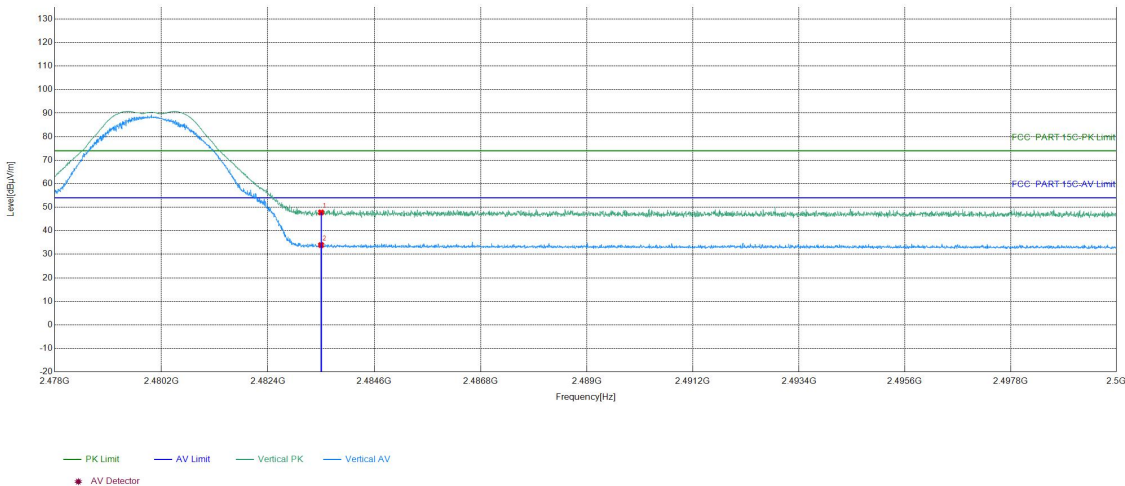
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	39.60	50.92	74.00	23.08	PASS	Horizontal	PK
2	2483.5	11.32	26.71	38.03	54.00	15.97	PASS	Horizontal	AV

Test_Mode	BLE 2M GFSK Transmitting	Test_Frequency	2480MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\08\20
Remark	\		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	36.48	47.80	74.00	26.20	PASS	Vertical	PK
2	2483.5	11.32	22.59	33.91	54.00	20.09	PASS	Vertical	AV

Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading -Correct Factor
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor