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Report Template Version: V05

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Website: <a href="https://www.cqa-cert.com">www.cqa-cert.com</a> Report Template Revision Date: 2021-11-03

# **Test Report**

**Report No.:** CQASZ20230901650E-02 **Applicant:** THINKCAR TECH CO., LTD.

Address of Applicant: 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian,

Longgang District, Shenzhen

**Equipment Under Test (EUT):** 

Product: THINKDIAG 2

Model No.: TKD04

Test Model No.: TKD04

Brand Name: THINKCAR, XHINKCAR, MUCAR

FCC ID: 2AUARDIAG2

Standards: 47 CFR Part 15, Subpart C

**Date of Receipt:** 2023-09-07

**Date of Test**: 2023-09-07 to 2023-09-15

Date of Issue: 2023-09-21
Test Result: PASS\*

\*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

( Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By: Jack Ai )





Report No.: CQASZ20230901650E-02

# 1 Version

# **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20230901650E-02	Rev.01	Initial report	2023-09-21





# 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	N/A
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

Remark:

N/A: In this whole report not application

Since the EUT is powered by Automobile power, this AC power line conducted emission test should be not applicable



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## 4 General Information

## 4.1 Client Information

Applicant:	THINKCAR TECH CO., LTD.
Address of Applicant:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Manufacturer:	THINKCAR TECH CO., LTD.
Address of Manufacturer:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Factory:	THINKCAR TECH CO., LTD.
Address of Factory:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen

# 4.2 General Description of EUT

Product Name:	THINKDIAG 2	
Model No.:	TKD04	
Test Model No.:	TKD04	
Trade Mark:	THINKCAR, XHINKCAR, MUCAR	
Software Version:	V1.0	
Hardware Version:	DIAG2	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V5.0	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps	
Number of Channel:	40	
Product Type:	⊠ Mobile ☐ Portable	
Test Software of EUT:	BT98X RF Tool V1.2	
Antenna Type:	FPC antenna	
Antenna Gain:	4.23dBi	
EUT Power Supply:	Power supply DC 12V	
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.	
	⊠ Simultaneous TX is not supported.	



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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

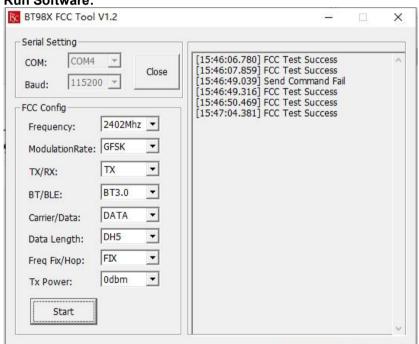


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## 4.3 Additional Instructions

EUT Test Software Settings:						
Mode:	⊠ Special software is used.	⊠ Special software is used.				
	☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#*					
EUT Power level:	Class2 (Power level is built-in set para selected)	meters and cannot be changed and				
Use test software to set the low	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep					
transmitting of the EUT.	1					
Mode	e Channel Frequency(MHz)					
	CH0 2402					
GFSK CH19 2440						
	CH39	2480				

#### **Run Software:**





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## 4.4 Test Environment

Operating Environment:	Operating Environment:		
Temperature:	24.5°C		
Humidity:	59% RH		
Atmospheric Pressure:	1009mbar		
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

# 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	
/	/	/	1	/	
2) Cable					
Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by	
1	,	,	,	,	





## 4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 <sup>-8</sup>
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz



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### 4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

### 4.8 Test Facility

### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

### 4.9 Deviation from Standards

None.

## 4.10 Other Information Requested by the Customer

None.



# 4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
FMI Toot Doopiyar	Dec	ECD7	COA 005	2022/09/09	2023/09/08
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08 2022/09/09	2024/09/07 2023/09/08
Spectrum analyzer	R&S	FSU26	CQA-038	2022/09/09	2023/09/08
opodram analyzor	1100	1 0020	04/1000	2022/09/09	2023/09/08
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
		AFS4-00010300-18-		2022/09/09	2023/09/08
Preamplifier	MITEQ	10P-4	CQA-035	2023/09/08	2024/09/07
		AMF-6D-02001800-		2022/09/09	2023/09/08
Preamplifier	MITEQ	29-20P	CQA-036	2023/09/08	2024/09/07
				2022/09/09	2023/09/08
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable				2022/09/09	2023/09/08
(Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable				2022/09/09	2023/09/08
(Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF	<u> </u>		30.0	2022/09/09	2023/09/08
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
				2022/09/09	2023/09/08
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
		110004)/4		2022/09/09	2023/09/08
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager	Agilent	N1918A	CQA-074	2022/09/09	2023/09/08
Power Panel	Agiletit	NIBIOA	CQA-074	2022/09/09	2023/09/03
1 GWOLL GILLO				2022/09/09	2023/09/08
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
		PWD-2533-02-SMA-		2022/09/09	2023/09/08
Power divider	MIDWEST	79	CQA-067	2023/09/08	2024/09/07
				2022/09/09	2023/09/08
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
				2022/09/09	2023/09/08
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Cooxist	CCA	N1/A	COA COOC	2022/09/09	2023/09/08
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2022/09/09 2023/09/08	2023/09/08 2024/09/07
DO power	NE I OIOI II		J JQA-020	2020100100	2024/03/01

### Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





### 5 Test results and Measurement Data

## 5.1 Antenna Requirement

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

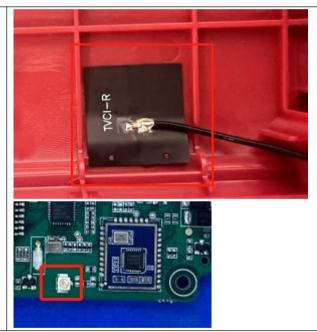
15.203 requirement:

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:**



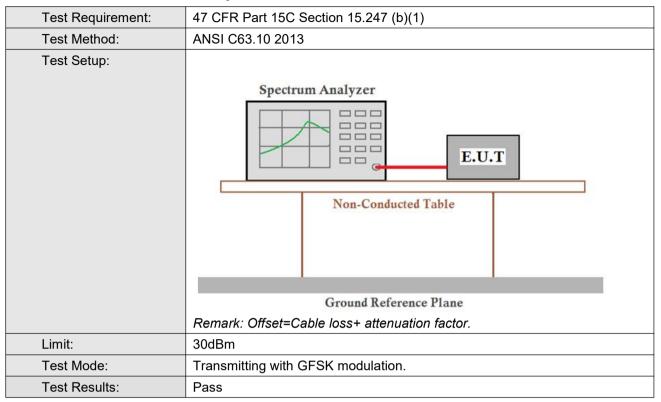
The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling This is either permanently attachment or a unique coupling that satisfies the requirement.





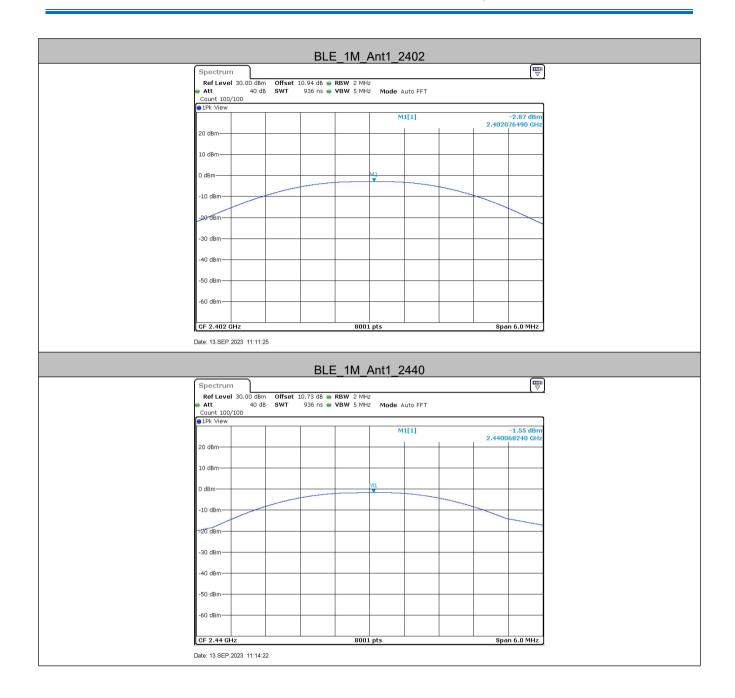
## 5.2 Conducted Peak Output Power



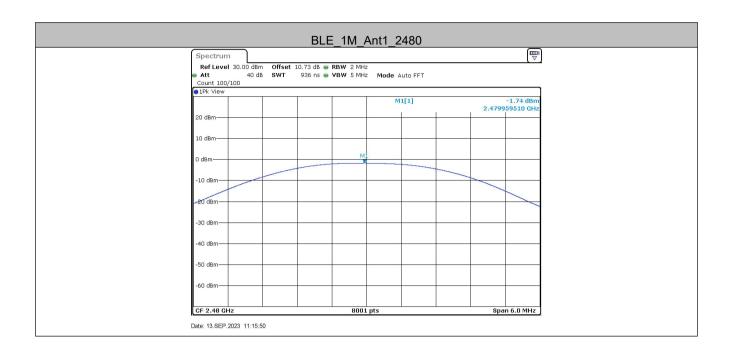
### **Measurement Data**

Weasurement Data	wedstrement bata								
GFSK mode (1Mbps)									
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result						
Lowest	-2.87	30.00	Pass						
Middle	-1.55	30.00	Pass						
Highest -1.74		30.00	Pass						



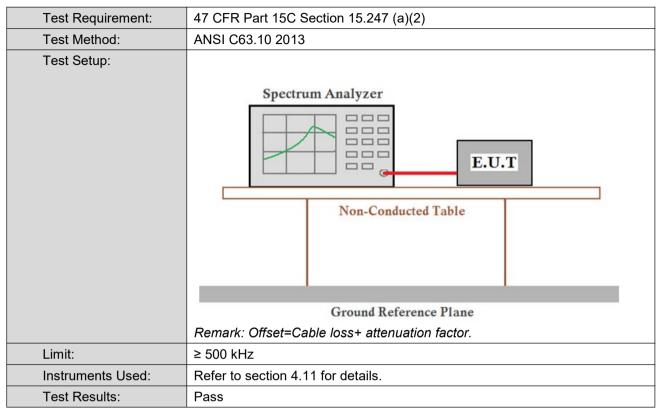








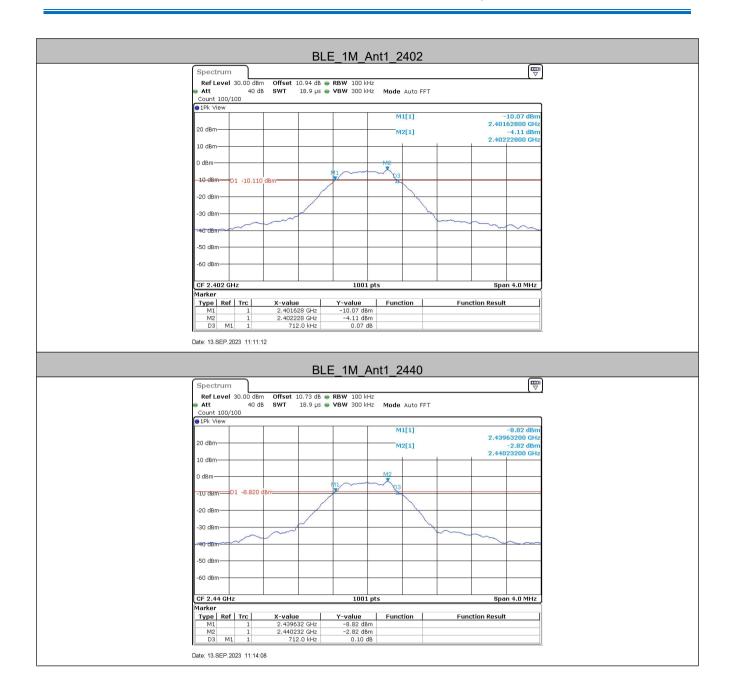
## 5.3 6dB Occupy Bandwidth



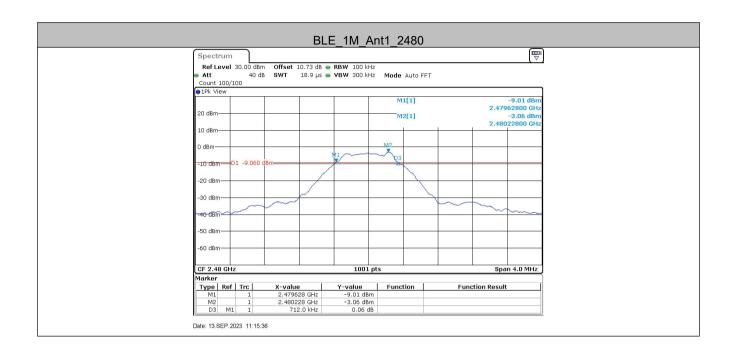
#### **Measurement Data**

GFSK mode (1Mbps)							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	0.71	≥500	Pass				
Middle	0.71	≥500	Pass				
Highest	0.71	≥500	Pass				



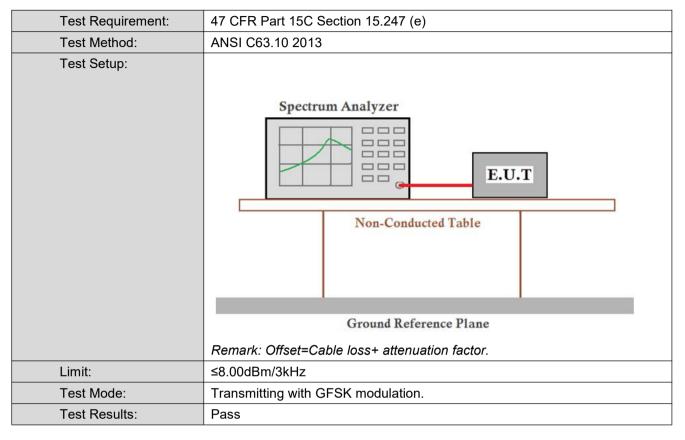








## **5.4 Power Spectral Density**



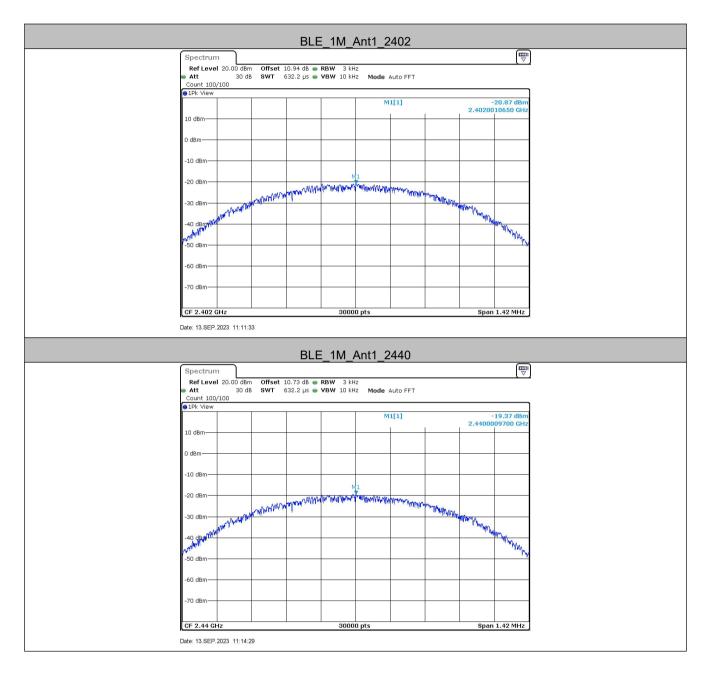
### **Measurement Data**

GFSK mode (1Mbps)								
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-20.87	≤8.00	Pass					
Middle	-19.37	≤8.00	Pass					
Highest	-19.61	≤8.00	Pass					

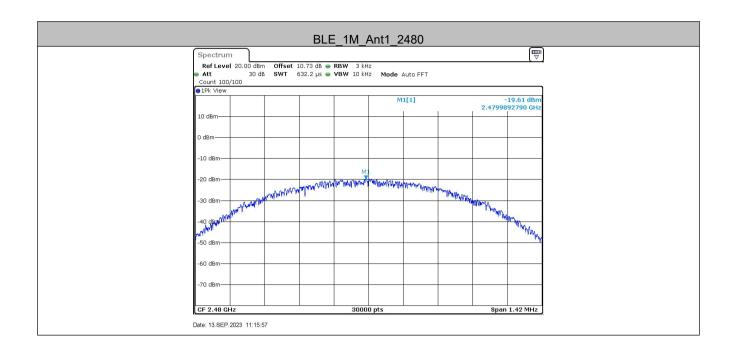




### Test plot as follows:



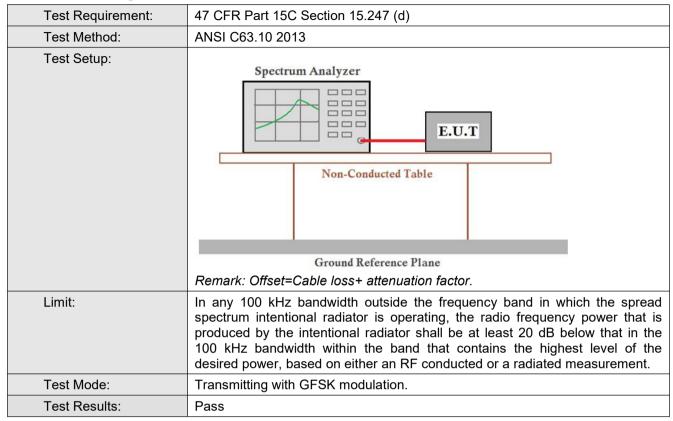






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## 5.5 Band-edge for RF Conducted Emissions

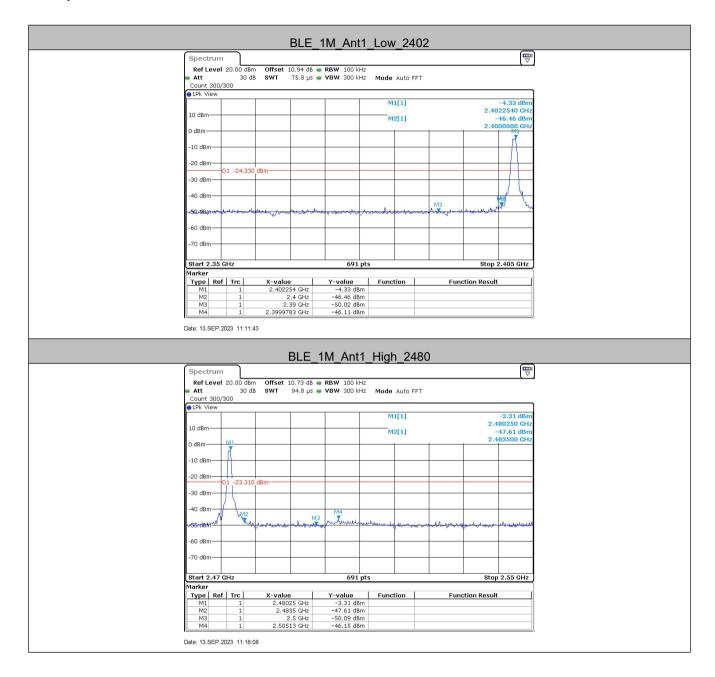


TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	-4.33	-46.11	≤-24.33	PASS
BLE_1M	High	2480	-3.31	-46.15	≤-23.31	PASS



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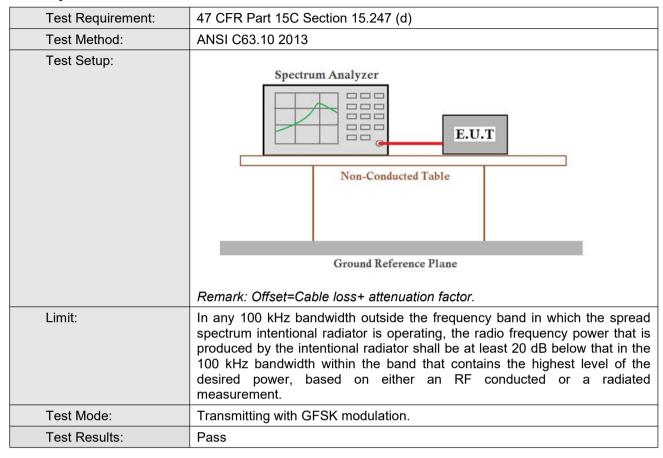
### Test plot as follows:







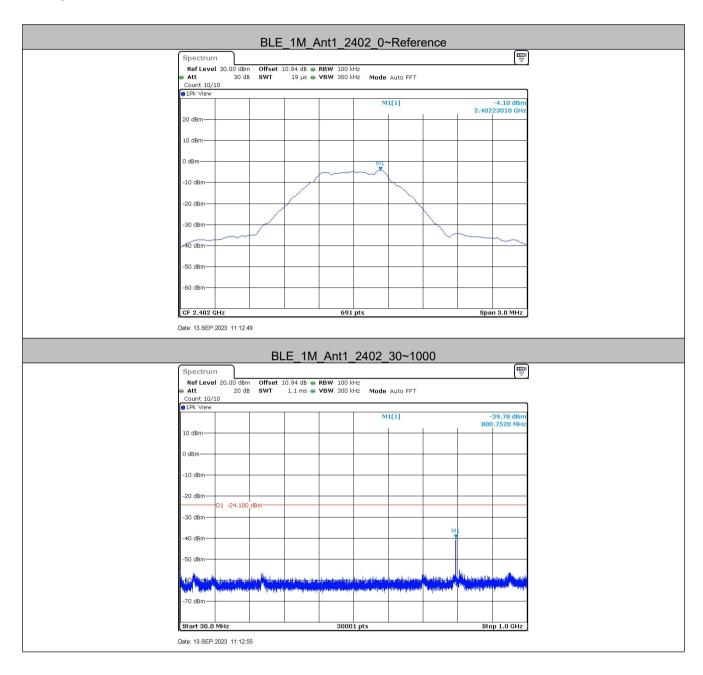
## 5.6 Spurious RF Conducted Emissions



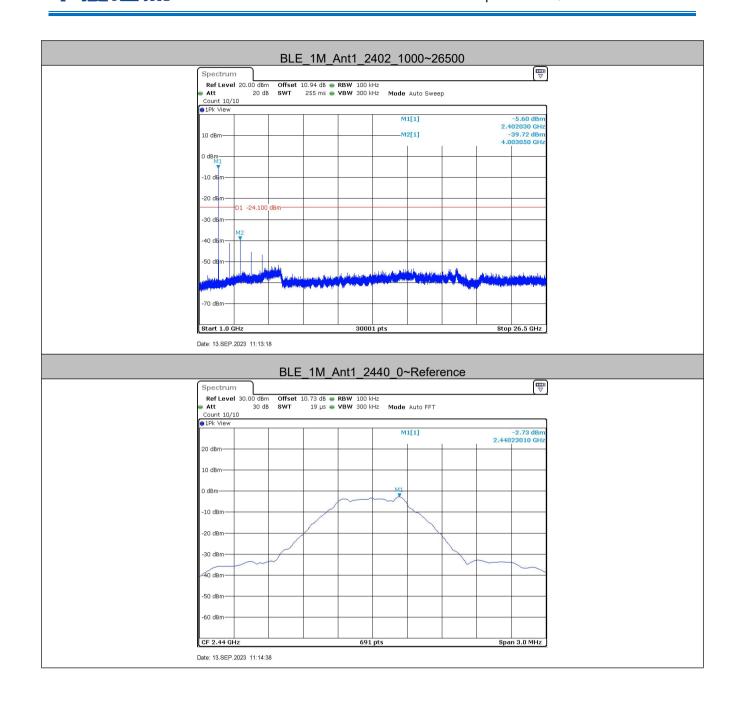




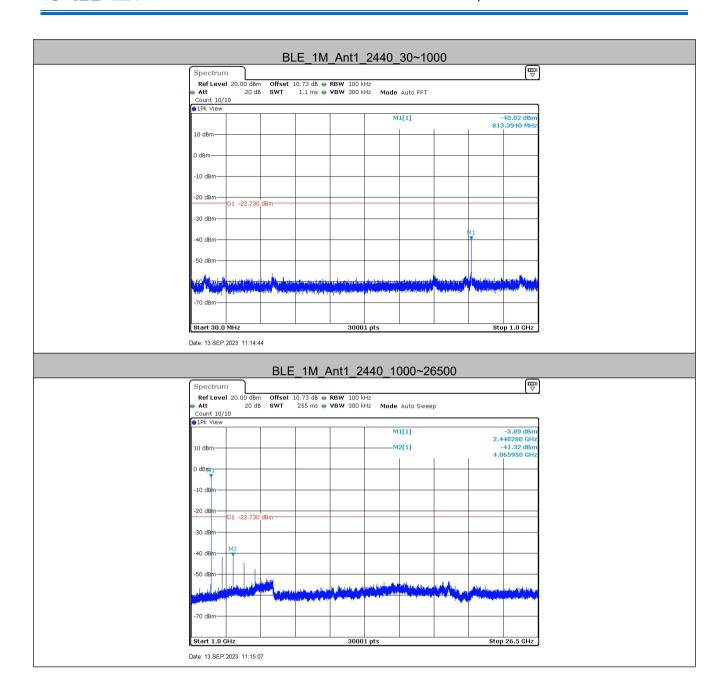
### Test plot as follows:



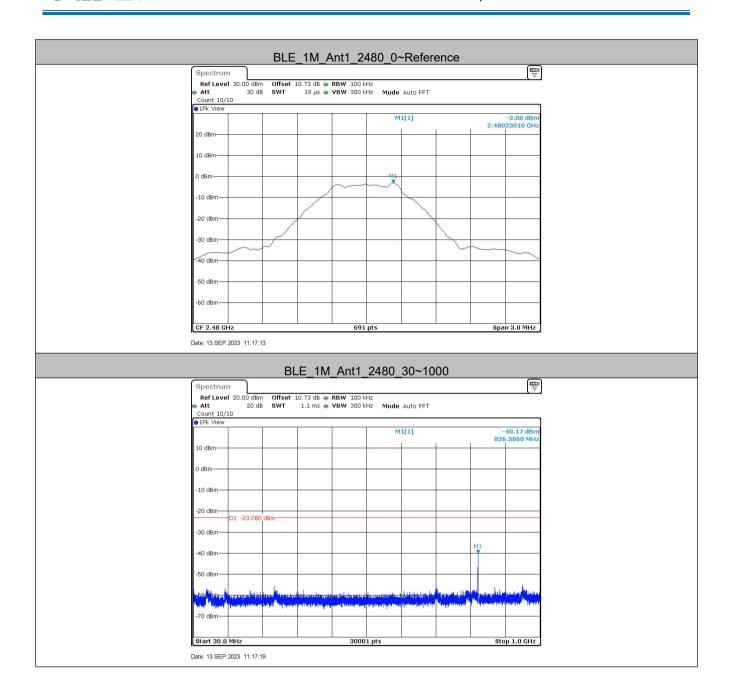






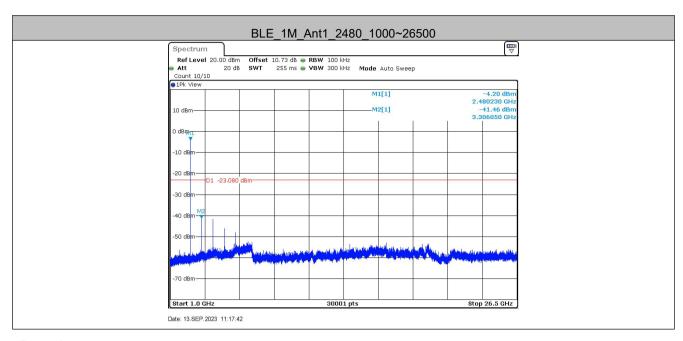








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### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.





# 5.7 Radiated Spurious Emission & Restricted bands

5.7.1 Spurious Emissions								
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205				
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anecl	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 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		
			Peak	1MHz	3MHz	Peak		
	Above 1GHz		Peak	1MHz	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	1000/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 Above 1GHz		500	54.0	Quasi-peak	3		
			500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	maximum est. This p	permitted av	erage emission				





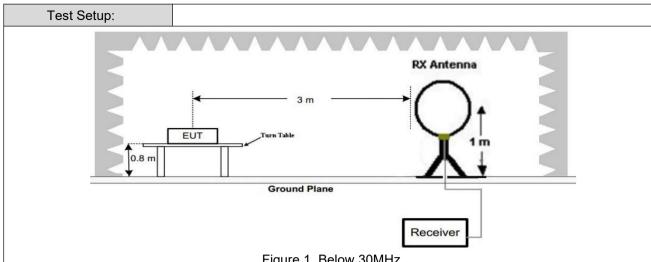
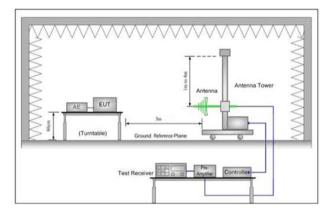


Figure 1. Below 30MHz



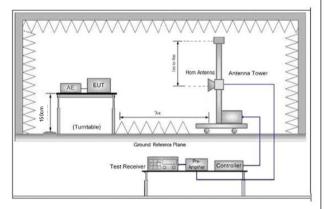


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

### Test Procedure:

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

- 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

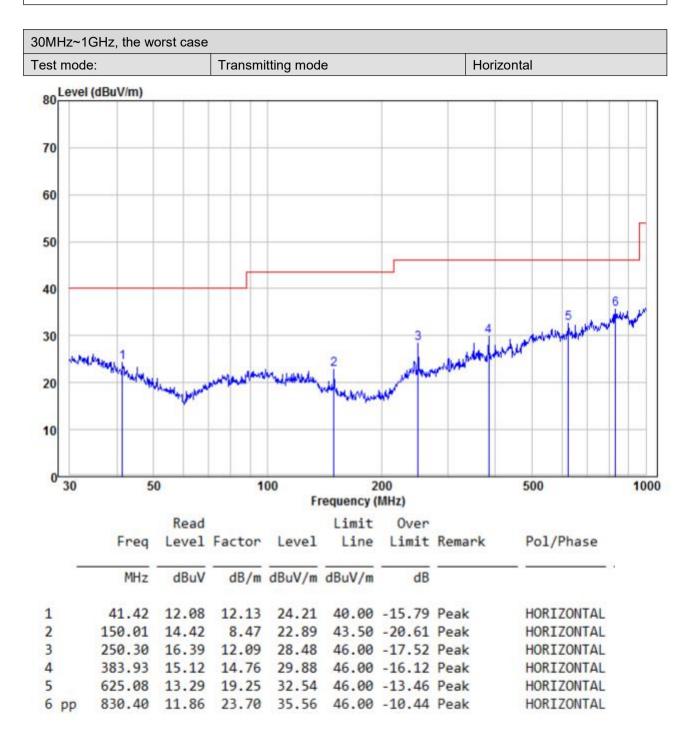


	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
	<ul> <li>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.</li> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> </ul>
	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.
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of data type and GFSK modulation is the worst case.
	For below 1GHz part, through pre-scan, the worst case is the highest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass





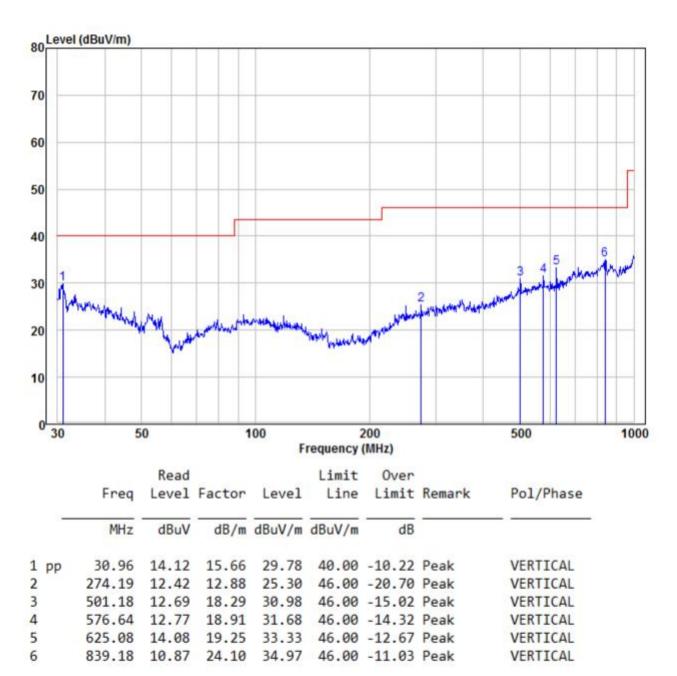
### Radiated Emission below 1GHz







30MHz~1GHz, the worst case			
Test mode:	Transmitting mode	Vertical	





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### Transmitter Emission above 1GHz

Worse case mode:		GFSK(1Mbps	s)	Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	56.24	-9.2	47.04	74	-26.96	Peak	Н
2400	54.96	-9.39	45.57	74	-28.43	Peak	Н
4804	52.72	-4.33	48.39	74	-25.61	Peak	Н
7206	49.39	1.01	50.40	74	-23.60	Peak	Н
2390	54.85	-9.2	45.65	74	-28.35	Peak	V
2400	52.25	-9.39	42.86	74	-31.14	Peak	V
4804	52.61	-4.33	48.28	74	-25.72	Peak	V
7206	49.73	1.01	50.74	74	-23.26	Peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	53.20	-4.11	49.09	74	-24.91	peak	Н
7320	48.83	1.51	50.34	74	-23.66	peak	Н
4880	51.44	-4.11	47.33	74	-26.67	peak	V
7320	51.20	1.51	52.71	74	-21.29	peak	V

Worse case mode:		GFSK(1Mbp	s)	Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	57.12	-9.29	47.83	74	-26.17	Peak	Н
4960	51.28	-4.04	47.24	74	-26.76	Peak	Н
7440	48.75	1.57	50.32	74	-23.68	Peak	Н
2483.5	57.44	-9.29	48.15	74	-25.85	Peak	V
4960	51.83	-4.04	47.79	74	-26.21	Peak	V
7440	48.39	1.57	49.96	74	-24.04	Peak	V

### Remark:

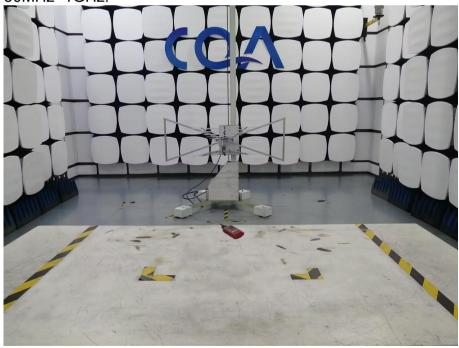
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz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

# 6 Photographs - EUT Test Setup

# 6.1 Radiated Spurious Emission



30MHz~1GHz:













# 7 Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20230901650E-01.

\*\*\* END OF REPORT \*\*\*