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Report Template Version: V05

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Test Report

Report No.: CQASZ20231001906E-02

Applicant: Shenzhen DO Intelligent Technology Co., Ltd

Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

Equipment Under Test (EUT):

Product: Smart Watch

Model No.: IDW22, IDW23, IDW18

Test Model No.: IDW18
Brand Name: IDO

FCC ID: 2AHFT508

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2023-10-23

Date of Test: 2023-10-23 to 2023-11-07

Date of Issue: 2023-11-21
Test Result: PASS*

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

Tested By:

71

Reviewed By:

(Timo Lei)

Approved By: Jack Ai)





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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20231001906E-02	Rev.01	Initial report	2023-11-21

Note:

This report only contains the test data for product 3# 4#. For the test result for product 1# 2#, please refer to original test report NO.CQASZ20230400456E

product 3# 4# means the modified new product version in this permissive change application (model: IDW22, IDW23).

The difference between product 1# 2# and product 3# 4# is that the screen model is different including having different screen supplier, battery model is different including having different battery supplier, shell is different, and the antenna of EUT is changed from FPC antenna to internal antenna, and the antenna gain becomes smaller, the difference between product 5# 6# and product 3# 4# is that the a slight difference in appearance.





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	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 2013	N/A
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	N/A
Power Spectral Density 47 CFR Part 15, Subpart C Section 15.247 (e)		ANSI C63.10 2013	N/A
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	N/A
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	N/A
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



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4 General Information

4.1 Client Information

Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	IDW22, IDW23, IDW18
Test Model No.:	IDW18
Trade Mark:	IDO
Software Version:	V1.01.00
Hardware Version:	V1.2
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable
Test Software of EUT:	FCC
Antenna Type:	internal antenna
Antenna Gain:	-3.7dBi
EUT Power Supply:	Model:552123 04
	Li-ion battery DC 3.8V 300mAh, Charge by DC 5V for adapter
	Model:552123 16
	Li-ion battery DC 3.8V 300mAh, Charge by DC 5V for adapter
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

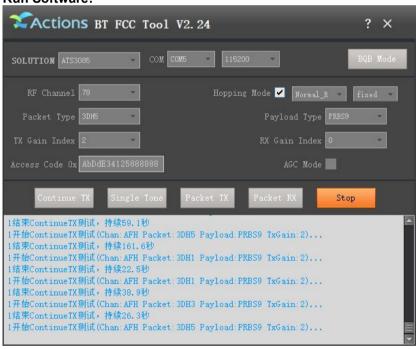


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4.3 Additional Instructions

EUT Test Software Settings:						
Mode:	⊠ Special software is used.					
		☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#*				
EUT Power level:	Class2 (Power level is built-in set para selected)	Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lo	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep					
transmitting of the EUT.						
Mode	Mode 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 Supp		Supplied by
Adapter	HUAWEI	HW-0502000C01	1	CQA
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.** guality 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 ⁻⁸
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

					.
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
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 (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

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)

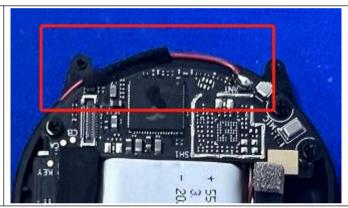
15.203 requirement:

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 internal antenna.

The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment

This is either permanently attachment or a unique coupling that satisfies the requirement.



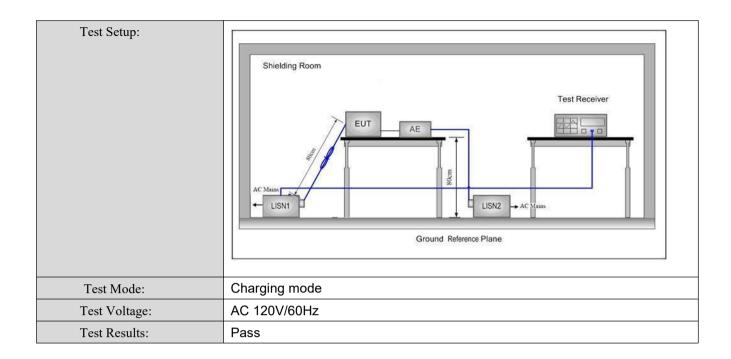
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5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	E (MIL)	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithm o	f the frequency.					
Test Procedure:	The mains terminal disturl room.	bance voltage test was	s conducted in a shie	elded			
	The EUT was connected to Impedance Stabilization N	•	•	near			
	impedance. The power cal	oles of all other units of	the EUT were				
	connected to a second LIS		•				
	reference plane in the sam	•	•				
	measured. A multiple sock	·	·				
	power cables to a single Li exceeded.	ISN provided the rating	of the LISN was not				
	3) The tabletop EUT was place	ced upon a non-metallio	c table 0.8m above th	ne			
	ground reference plane. A	•	rangement, the EUT	was			
	placed on the horizontal gr 4) The test was performed wi	•	oronco plano. The re	or			
	of the EUT shall be 0.4 m	•	•				
	vertical ground reference p	•	·	10			
	reference plane. The LISN		•	he			
	unit under test and bonded	I to a ground reference	plane for LISNs				
	mounted on top of the grou						
	between the closest points						
	the EUT and associated ed	• •		2.			
	5) In order to find the maximu		•	to			
	equipment and all of the in ANSI C63.10: 2013 on con		changed according	ıU			
	ANOT 003. 10. 2013 011 001	iduoted measurement.					



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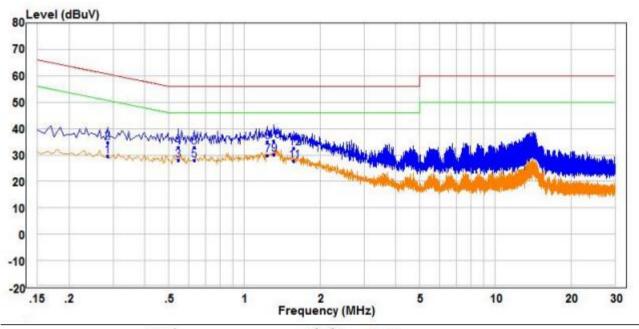




Measurement Data

3#

Live line:



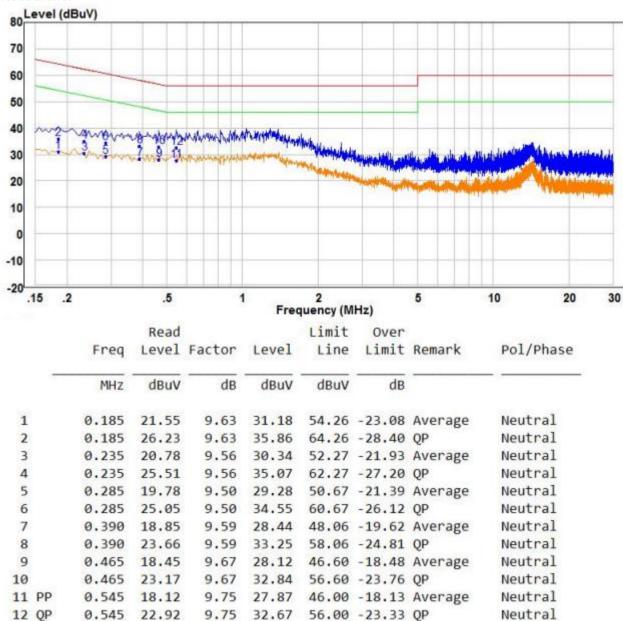
	Freq	Read Level	Factor	Level	Limit Line	Over	Remark	Pol/Phase
_	MHZ	dBuV	dB	dBuV	dBuV	dB		- 13
1	0.285	19.95	9.51	29.46	50.67	-21.21	Average	Line
2	0.285	25.08	9.51	34.59	60.67	-26.08	QP	Line
3	0.545	18.31	9.75	28.06	46.00	-17.94	Average	Line
4	0.545	23.05	9.75	32.80	56.00	-23.20	QP	Line
4 5 6	0.630	18.13	9.83	27.96	46.00	-18.04	Average	Line
6	0.630	23.07	9.83	32.90	56.00	-23.10	QP	Line
7	1.235	19.61	10.29	29.90	46.00	-16.10	Average	Line
8	1.235	24.66	10.29	34.95	56.00	-21.05	QP	Line
9 PP	1.310	19.81	10.46	30.27	46.00	-15.73	Average	Line
10 QP	1.310	24.87	10.46	35.33	56.00	-20.67	QP	Line
11	1.580	16.81	10.98	27.79	46.00	-18.21	Average	Line
12	1.580	21.73	10.98	32.71	56.00	-23.29	QP	Line

- 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.







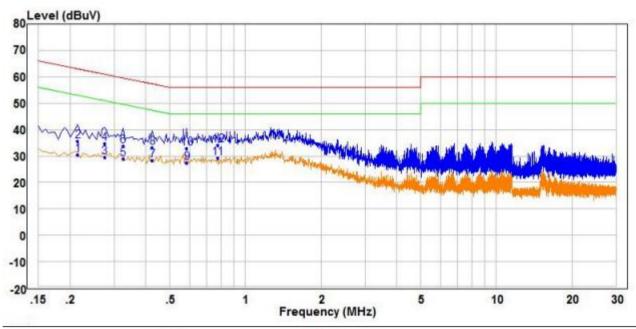


- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



4#

Live line:



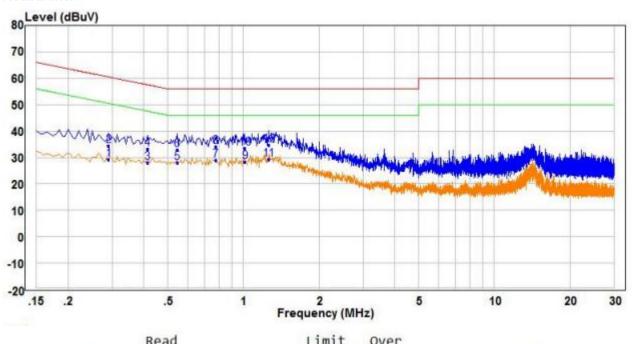
	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	rreq	rever	ractor	rever	Line	LIMIT	Relliark	POI/Pliase
	MHZ	dBuV	dB	dBuV	dBuV	dB	ů.	
1 2 3 4 5	0.215	21.00	9.59	30.59	53.01	-22.42	Average	Line
2	0.215	25.94	9.59	35.53	63.01	-27.48	QP	Line
3	0.275	19.94	9.52	29.46	50.97	-21.51	Average	Line
4	0.275	25.18	9.52	34.70	60.97	-26.27	QP	Line
5	0.325	19.42	9.52	28.94	49.58	-20.64	Average	Line
6	0.325	24.21	9.52	33.73	59.58	-25.85	QP	Line
7	0.425	18.69	9.63	28.32	47.35	-19.03	Average	Line
8	0.425	23.62	9.63	33.25	57.35	-24.10	QP	Line
9	0.585	17.78	9.79	27.57	46.00	-18.43	Average	Line
10	0.585	23.00	9.79	32.79	56.00	-23.21	QP	Line
11 PP	0.775	19.39	9.85	29.24	46.00	-16.76	Average	Line
12 QP	0.775	24.34	9.85	34.19	56.00	-21.81	QP	Line

- 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:



	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
-	MHZ	dBuV	dB	dBuV	dBuV	dB	>	
1	0.290	19.87	9.49	29.36	50.52	-21.16	Average	Neutral
2	0.290	24.98	9.49	34.47	60.52	-26.05	QP	Neutral
3	0.415	18.56	9.62	28.18	47.55	-19.37	Average	Neutral
4	0.415	23.46	9.62	33.08	57.55	-24.47	QP	Neutral
5	0.545	18.17	9.75	27.92	46.00	-18.08	Average	Neutral
6	0.545	23.02	9.75	32.77	56.00	-23.23	QP	Neutral
7	0.775	19.23	9.85	29.08	46.00	-16.92	Average	Neutral
8	0.775	24.25	9.85	34.10	56.00	-21.90	QP	Neutral
9	1.015	18.67	9.70	28.37	46.00	-17.63	Average	Neutral
10	1.015	23.68	9.70	33.38	56.00	-22.62	QP	Neutral
11 PP	1.260	19.68	9.71	29.39	46.00	-16.61	Average	Neutral
12 QP	1.260	24.97	9.71	34.68	56.00	-21.32	QP	Neutral

- 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.

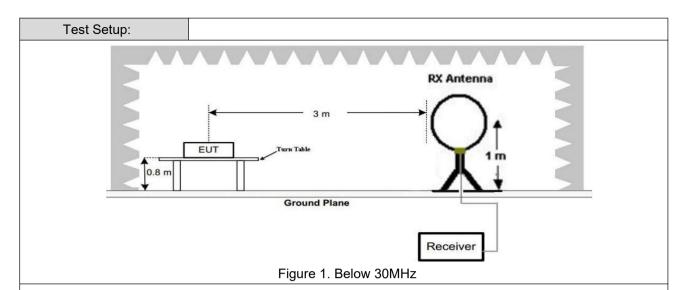


5.3 Radiated Spurious Emission & Restricted bands

5.3.1 Spurious Emissions										
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance	: 3m	(Semi-Anech	noic Cham	ber)					
Receiver Setup:	Frequency		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 1CHz	A1 4011			3MHz	Peak				
	Above 1GHz		Peak	1MHz	10Hz	Average				
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)				
	0.009MHz-0.490MHz	24	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	000/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), frequency emissions is limit applicable to the epeak emission level race	20d quip	B above the iment under t	maximum est. This p	permitted av	erage emission				







Antenna Tower

Artenna

Antenna Tower

Ground Reference Plane

Test Receiver

Ampdie

Controller

Horr. Antenna Tower

AE EUT

Ground Reference Plane

Test Receiver

Test Receiver

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



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	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.
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



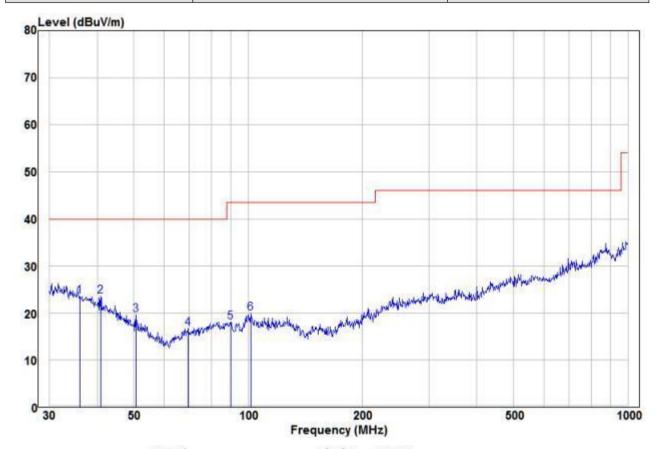
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Radiated Emission below 1GHz

3#

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

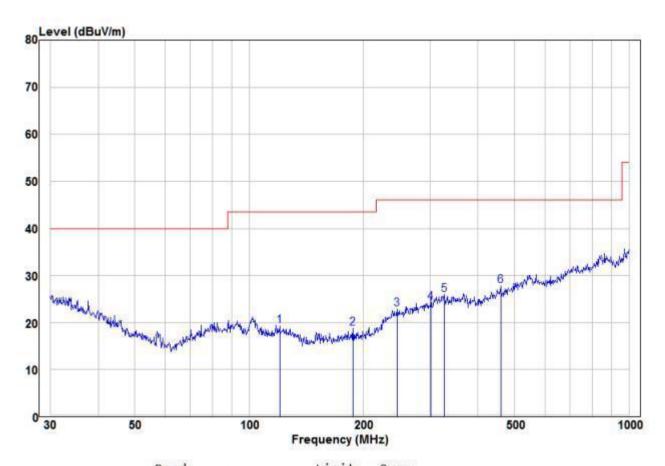


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
59 4	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	-	
1	36.00	9.25	14.24	23.49	40.00	-16.51	Peak	HORIZONTAL
2 pp	40.84	11.15	12.40	23.55	40.00	-16.45	Peak	HORIZONTAL
3	50.59	11.64	7.97	19.61	40.00	-20.39	Peak	HORIZONTAL
4	69.36	8.83	7.95	16.78	40.00	-23.22	Peak	HORIZONTAL
5	89.90	8.15	10.02	18.17	43.50	-25.33	Peak	HORIZONTAL
6	101.64	9.39	10.57	19.96	43.50	-23.54	Peak	HORIZONTAL





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



	Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	120.28	8.65	10.69	19.34	43.50	-24.16	Peak	VERTICAL
2	187.75	10.78	8.05	18.83	43.50	-24.67	Peak	VERTICAL
3	245.09	10.99	11.93	22.92	46.00	-23.08	Peak	VERTICAL
4	300.37	10.45	13.74	24.19	46.00	-21.81	Peak	VERTICAL
5	326.74	11.47	14.39	25.86	46.00	-20.14	Peak	VERTICAL
6 pp	459.11	10.72	17.01	27.73	46.00	-18.27	Peak	VERTICAL



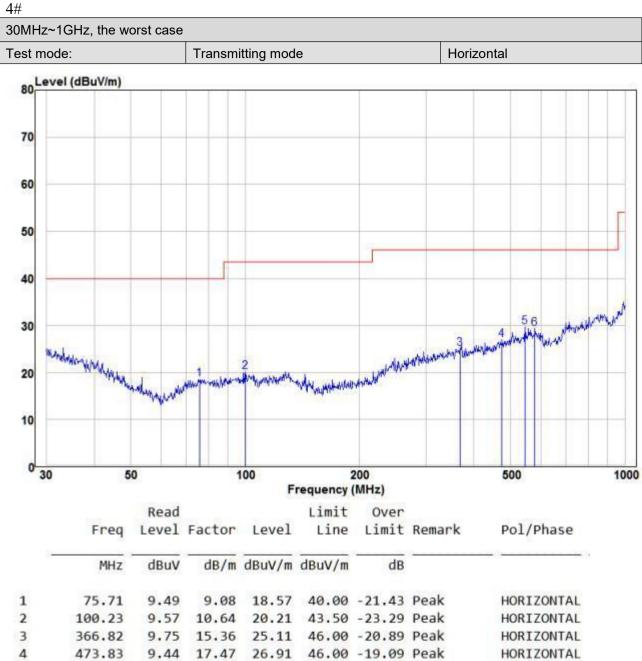


HORIZONTAL

HORIZONTAL

5 pp

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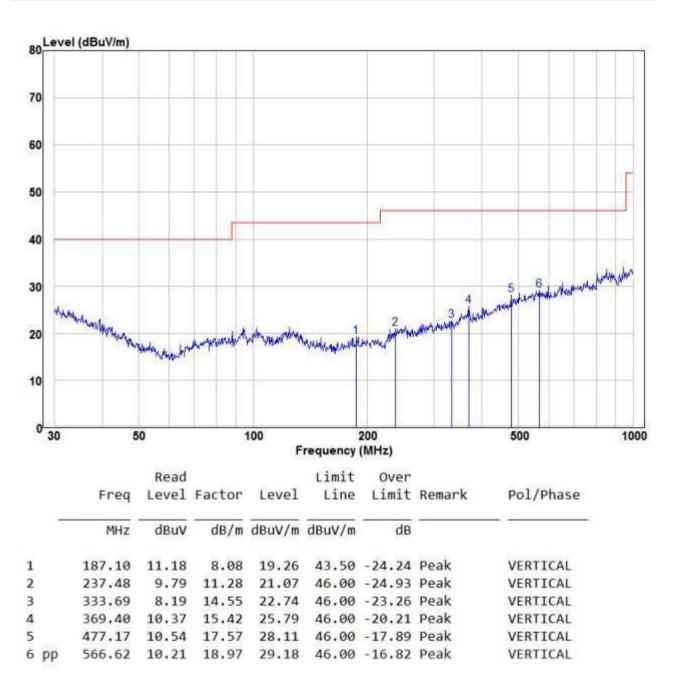
545.18 10.86 18.75 29.61 46.00 -16.39 Peak

578.67 10.60 18.72 29.32 46.00 -16.68 Peak



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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	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	
2390	54.95	-9.2	45.75	74	-28.25	Peak	Н	
2400	56.42	-9.39	47.03	74	-26.97	Peak	Н	
4804	52.75	-4.33	48.42	74	-25.58	Peak	Н	
7206	49.93	1.01	50.94	74	-23.06	Peak	Н	
2390	53.32	-9.2	44.12	74	-29.88	Peak	V	
2400	53.08	-9.39	43.69	74	-30.31	Peak	V	
4804	55.03	-4.33	50.70	74	-23.30	Peak	V	
7206	51.07	1.01	52.08	74	-21.92	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	52.02	-4.11	47.91	74	-26.09	peak	Н
7320	50.44	1.51	51.95	74	-22.05	peak	Н
4880	52.53	-4.11	48.42	74	-25.58	peak	V
7320	50.19	1.51	51.70	74	-22.30	peak	V

Worse case mode:		GFSK(1Mbps)		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	55.15	-9.29	45.86	74	-28.14	Peak	Н
4960	52.60	-4.04	48.56	74	-25.44	Peak	Н
7440	50.33	1.57	51.90	74	-22.10	Peak	Н
2483.5	56.33	-9.29	47.04	74	-26.96	Peak	٧
4960	49.95	-4.04	45.91	74	-28.09	Peak	V
7440	49.35	1.57	50.92	74	-23.08	Peak	V

- 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 Test Setup

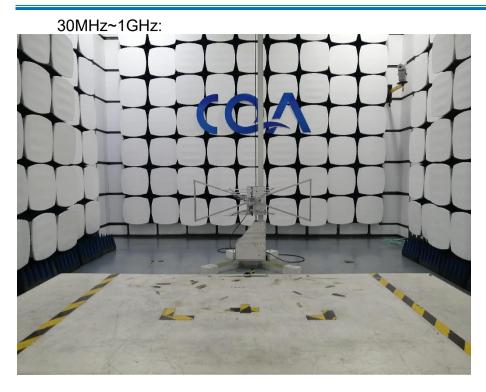








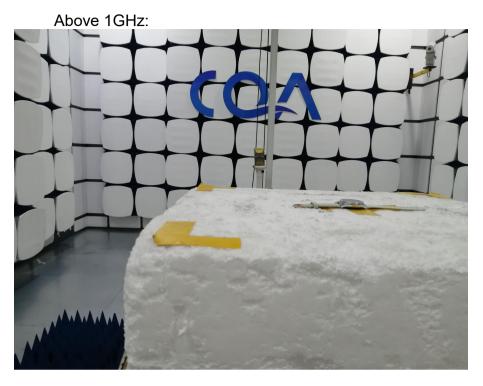
















6.2 Conducted Emission









7 Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20231001906E-01.

*** END OF REPORT ***