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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017 www.cqa-cert.com

Test Report

Report No.: CQASZ20210400549E-01

Shenzhen Leaderment Technology Co.,Ltd Applicant:

Address of Applicant: 1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longguan West Road,

Gaofeng Community, Dalang Street, Longhua District, Shenzhen

Equipment Under Test

(EUT):

EUT Name: Selfie Stick Tripod

ATSS082, ATSS084, ATSS091, ATSS092, ATSS093, ATSS094, ATSS095. Model No.:

ATSS096, ATSS097, ATSS098

Test Model No.: ATSS082 **Brand Name:** ATUMTEK

FCC ID: 2ASUP-ATSS082

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2021-04-26

Date of Test: 2021-04-26 to 2021-05-24

Date of Issue: 2021-05-24 **Test Result:** PASS*

Tested By: (Lewis Zhou) JUH LI Reviewed By:

(Jun Li)

lewis 2hou

Approved By:

(Sheek luo)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

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



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2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210400549E-01	Rev.01	Initial report	2021-05-24



3 Test Summary

Test Item	Test Item Test Requirement		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)(3)	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 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

N/A: Not Applicable

Note: When the EUT charging, BLE will not work.



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5 General Information

5.1 Client Information

Applicant:	Shenzhen Leaderment Technology Co.,Ltd	
Address of Applicant:	1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longg West Road, Gaofeng Community, Dalang Street, Longhua Dist Shenzhen	
Manufacturer:	Shenzhen Leaderment Technology Co.,Ltd	
Address of Manufacturer:	1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, Shenzhen	
Factory:	Shenzhen Yuansu Chuangda Technology Co.,Ltd	
Address of Factory:	Room 533, Huamei Building, Zhenxing Road, Futian District, Shenzhen City	

5.2 General Description of EUT

Product Name:	Selfie Stick Tripod
All Model No.:	ATSS082, ATSS084, ATSS091, ATSS092, MATSS093, ATSS094, ATSS095, ATSS096, ATSS097, ATSS098
Test Model No.:	ATSS082
Trade Mark:	ATUMTEK
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	Lekit_200927.exe (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	-3.01 dBi
EUT Power Supply:	DC3.3V

Note:

All model: ATSS082, ATSS084, ATSS091, ATSS092, MATSS093, ATSS094, ATSS095, ATSS096, ATSS097, ATSS098

Only the model ATSS082 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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Operation F	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

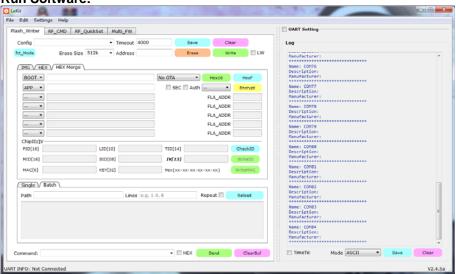


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5.3 Additional Instructions

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)	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	Channel	Frequency(MHz)				
CH0 2402						
GFSK	GFSK CH19 2440					
	CH39	2480				

Run Software:





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5.4 Test Environment

Operating Environment	Operating Environment:		
Temperature:	Temperature: 25.0 °C		
Humidity:	53 % RH		
Atmospheric Pressure: 1010mbar			
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.		

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	APPLE	Iphone 5c	/	CQA





5.6 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	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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5.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

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

5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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

5.9 Deviation from Standards

None.

5.10Other Information Requested by the Customer

None.





5.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/9/26	2021/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/28	2021/10/27
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2020/9/26	2021/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/11/2	2021/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2020/10/28	2021/10/27
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/26	2021/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/9/26	2021/9/25
LISN	R&S	ENV216	CQA-003	2020/9/26	2021/9/25
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25

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.





6 Test results and Measurement Data

6.1 Antenna Requirement

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

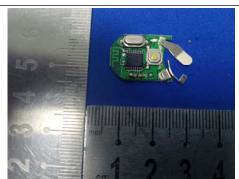
15.203 requirement:

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:



The antenna is PCB antenna. The best case gain of the antenna is -3.01 dBi.





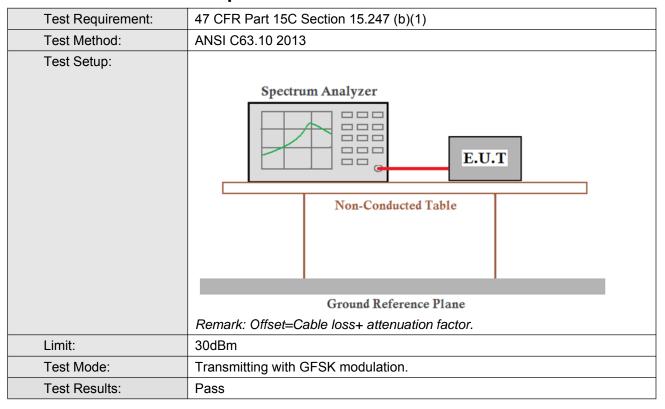
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	Fraguency range (MIII-)	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 logarithn	n of the frequency.					
	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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. 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. 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 LISN 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 equipmer and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.						
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Ma Ground Reference Plane	Test Receiver				
Test Mode:	This product does not involve this test.						
Test Results:	N/A						





6.3 Conducted Peak Output Power

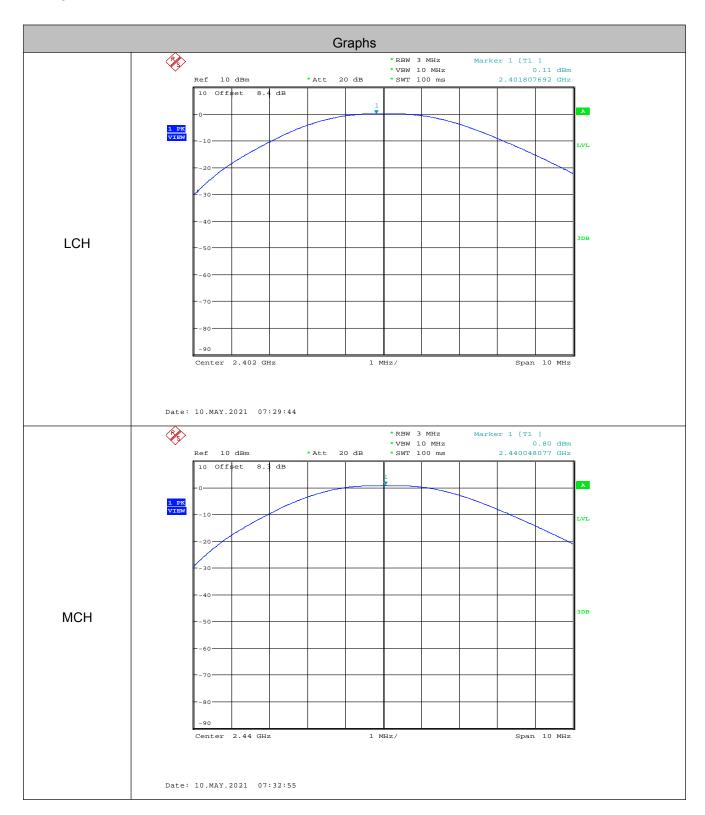


Measurement Data

Measurement Data									
GFSK mode									
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result						
Lowest	Lowest 0.11		Pass						
Middle	0.8	30.00	Pass						
Highest	1.06	30.00	Pass						



Test plot as follows:

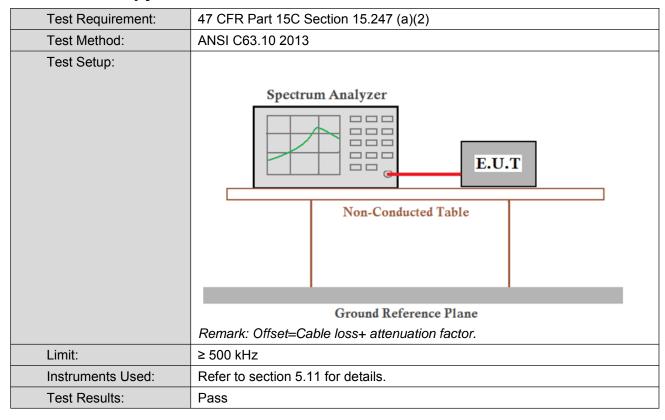








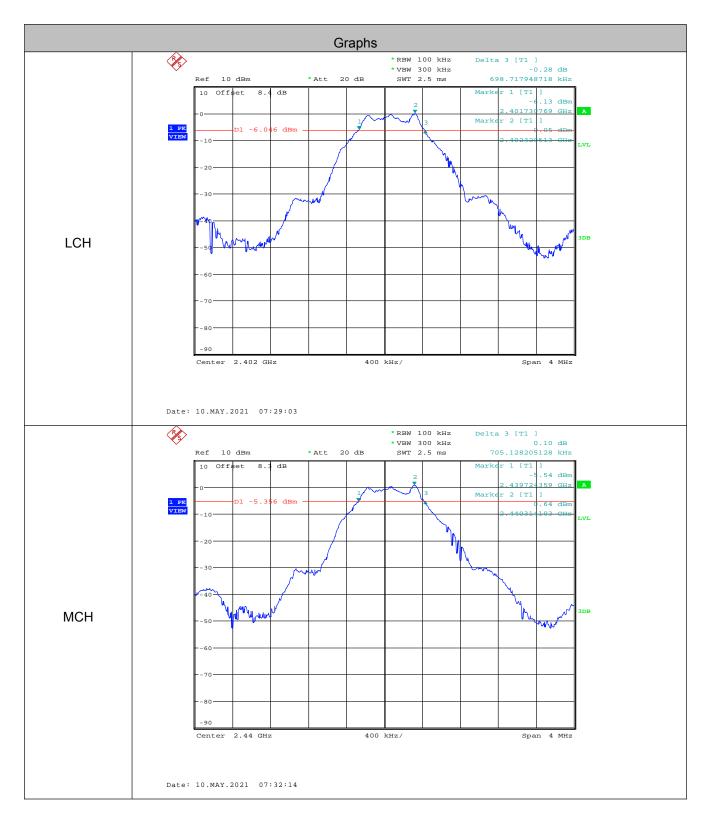
6.4 6dB Occupy Bandwidth



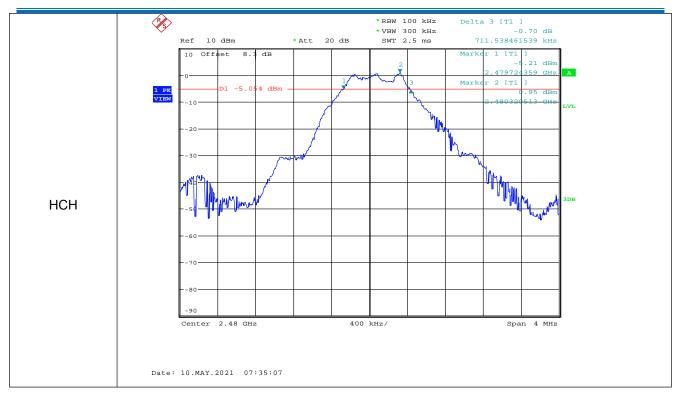
Measurement Data

GFSK mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	0.699	≥500	Pass				
Middle	0.705	≥500	Pass				
Highest	0.712	≥500	Pass				

Test plot as follows:

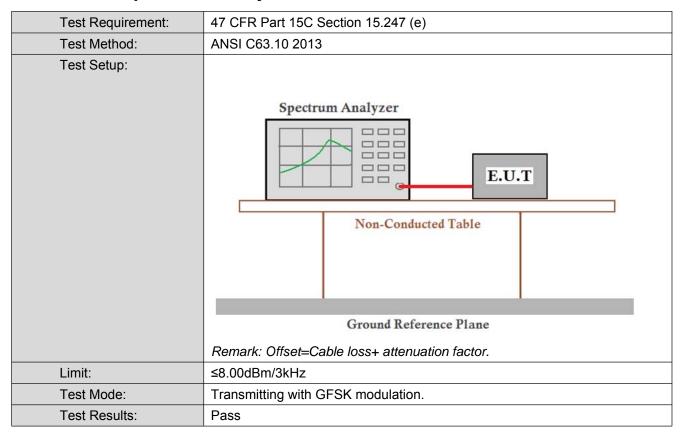








6.5 Power Spectral Density

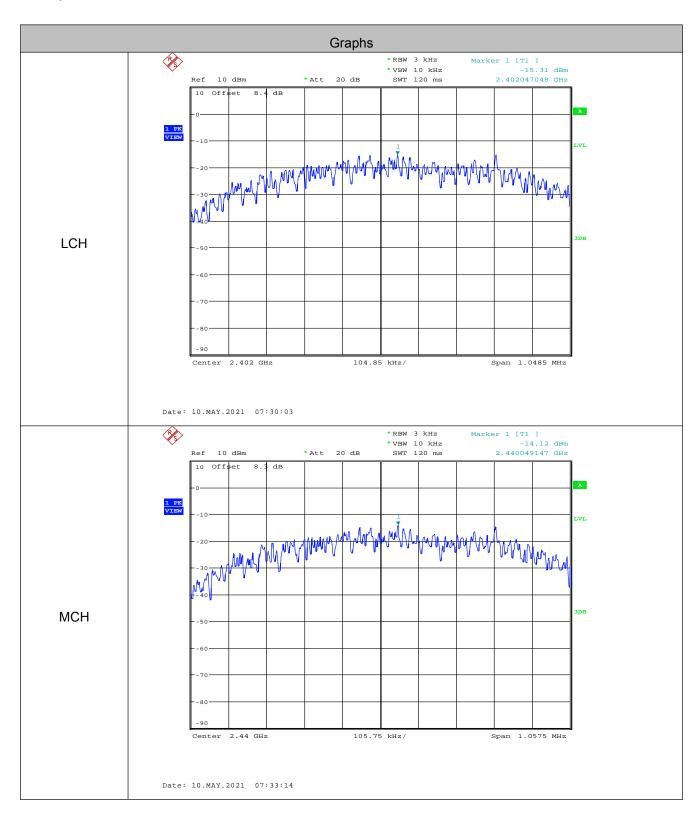


Measurement Data

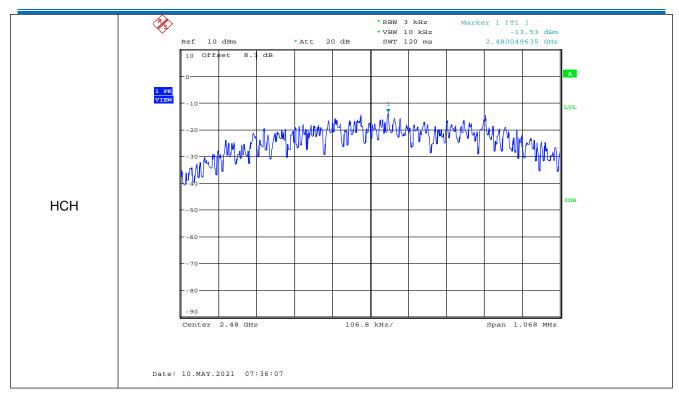
Micasarciniciti Data								
	GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-15.310	≤8.00	Pass					
Middle	-14.120	≤8.00	Pass					
Highest	-13.530	≤8.00	Pass					



Test plot as follows:



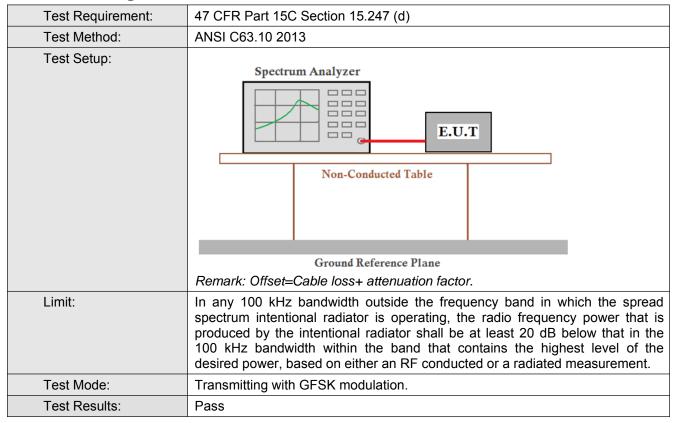








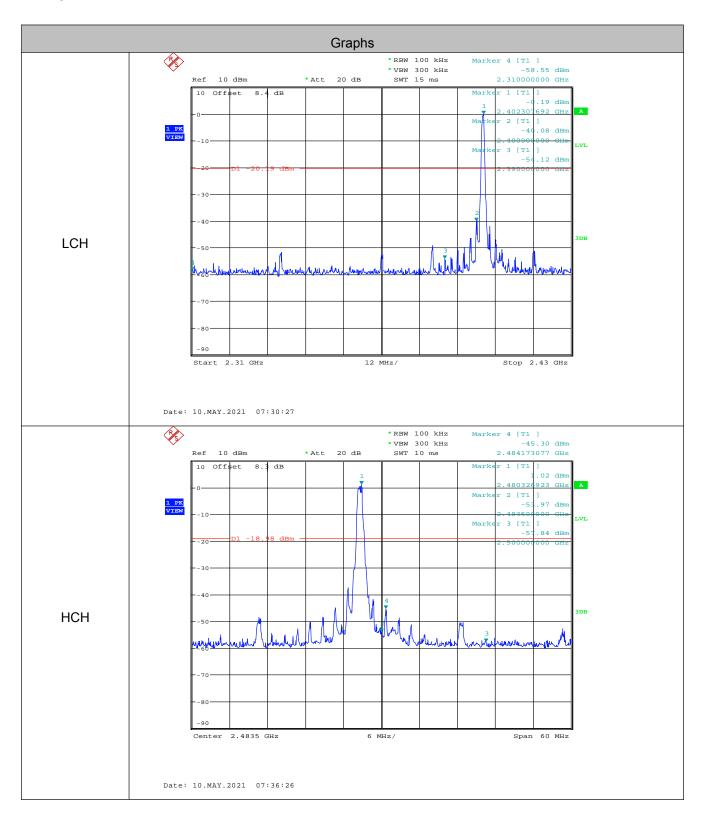
6.6 Band-edge for RF Conducted Emissions



GFSK mode				
Test channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
Channel	Frequency(MHZ)	Emission Level(ubin)	LIIIII(ubiii)	Resuit
Lowest	2400	-40.080	-20.19	Pass
Highest	2483.5	-53.970	-18.98	Pass

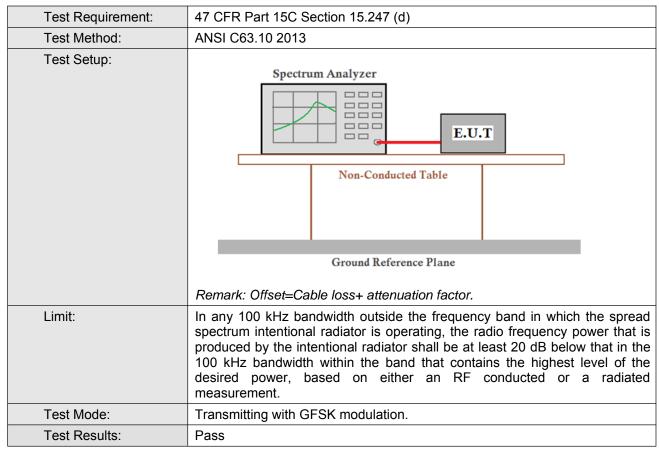


Test plot as follows:

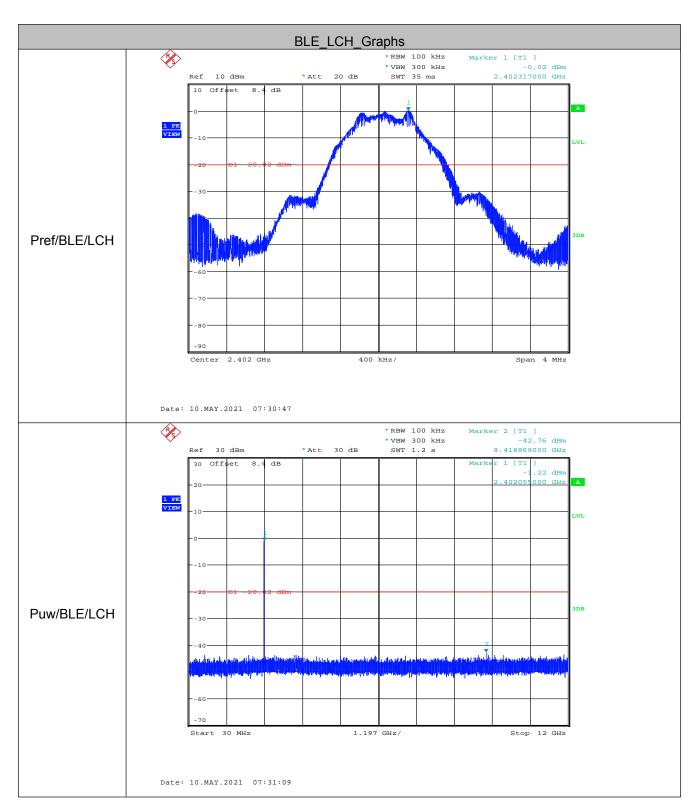




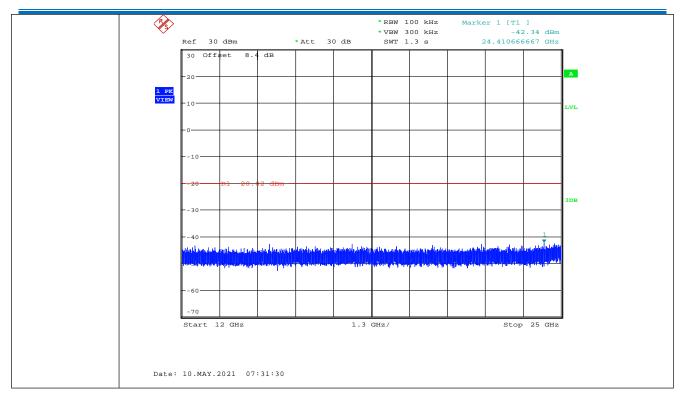
6.7 Spurious RF Conducted Emissions



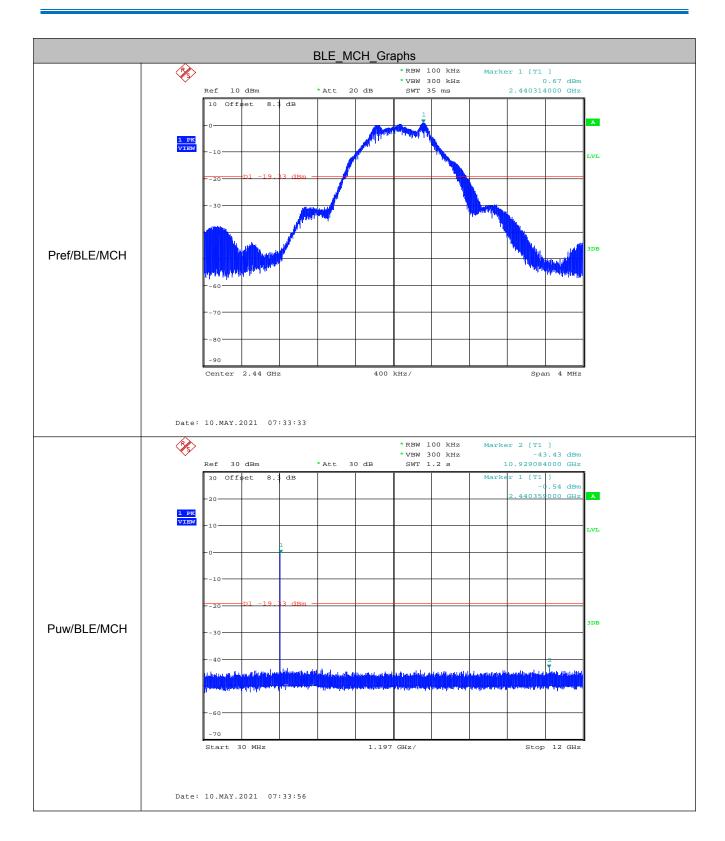
Test plot as follows:



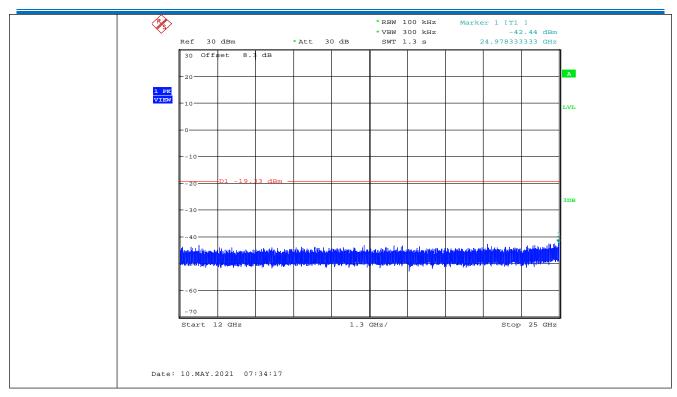




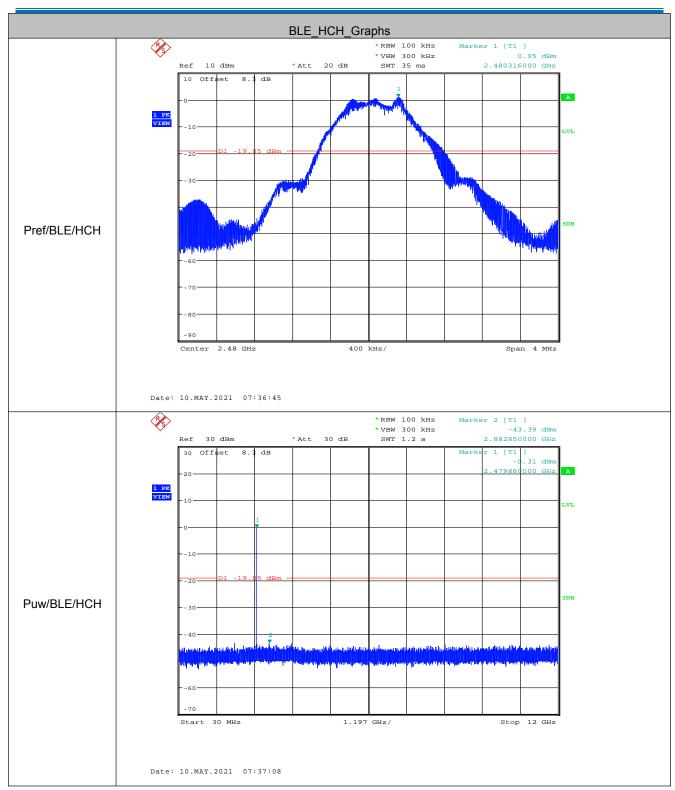






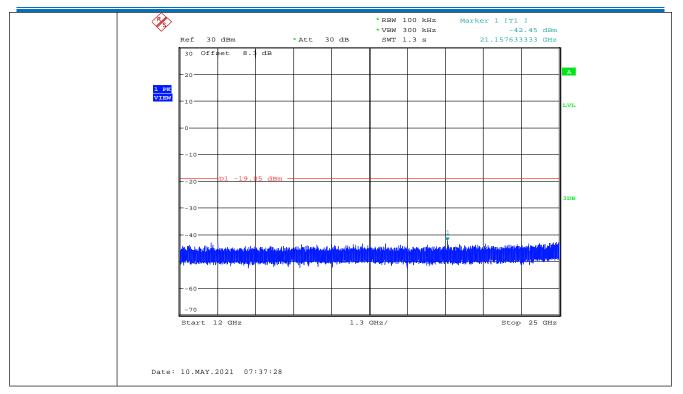








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Remark:

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.



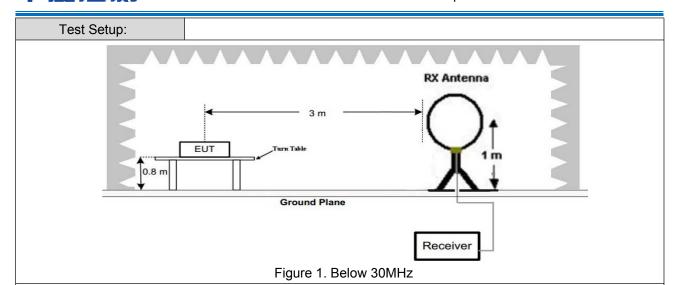


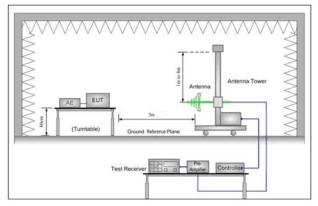
6.8 Radiated Spurious Emission & Restricted bands

6.8.1 Spurious Emissions									
Test Requirement:	17 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	1	
	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	z	30kHz	Quasi-peak	1	
	0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak	1	
	0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	łz	300kHz	Quasi-peak		
	Al 4011-		Peak	1MHz	2	3MHz	Peak		
	Above 1GHz		Peak	1MHz	2	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	F	Remark	Measureme distance (r		
	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	Qι	uasi-peak	3		
	88MHz-216MHz		150	43.5	Qι	uasi-peak	3		
	216MHz-960MHz		200	46.0	Qι	uasi-peak	3		
	960MHz-1GHz Above 1GHz		500	54.0	Qι	uasi-peak	3		
			500	54.0	_ <i>F</i>	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.								



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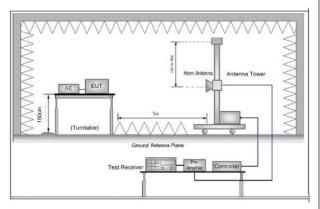


Figure 2. 30MHz to 1GHz

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 horizontal and vertical polarizations of the antenna are set to make the

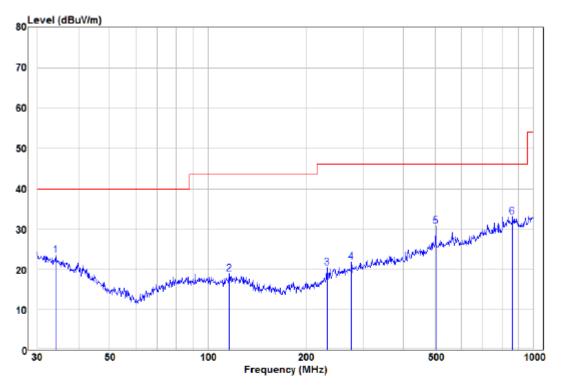


	measurement.
	 d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to 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.
Final Test Mode:	Transmitting with GFSK modulation.
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass





Radiated Emission below 1GHz						
30MHz~1GHz, the worst case	30MHz~1GHz, the worst case					
Test mode:	Transmitting with GFSK modulation.	Vertical				



Condition : FCC PART15B CLASS B VERTICAL

Remark : Temp:25.5°C, RH:53%, Press:100.9kPa

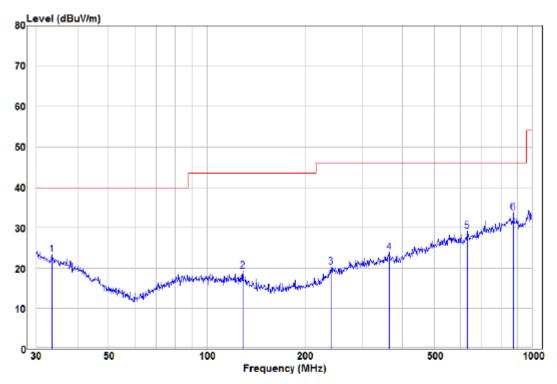
Job Number: CQASZ20210400549E Test Mode: Working mode

Read APos TPos Limit 0ver Freq Level Factor Level Line Limit Remark Pol/Phase dB/m dBuV/m dBuV/m MHZ dBuV CM deg VERTICAL 1 34.16 8.80 14.83 23.63 40.00 -16.37 Peak 2 116.54 8.36 10.52 18.88 43.50 -24.62 Peak VERTICAL ---3 232.53 9.72 10.73 20.45 46.00 -25.55 Peak VERTICAL 276.12 8.83 12.94 21.77 46.00 -24.23 Peak VERTICAL 501.18 12.39 18.29 30.68 46.00 -15.32 Peak VERTICAL 6 pp 863.06 9.15 23.99 33.14 46.00 -12.86 Peak VERTICAL



Report No.: CQASZ20210400549E-01

30MHz~1GHz, the worst case					
Test mode:	Transmitting with GFSK modulation.	Horizontal			



Condition : FCC PART15B CLASS B HORIZONTAL
Remark : Temp:25.5°C, RH:53%, Press:100.9kPa

Job Number: CQASZ20210400549E Test Mode : Working mode

		Read			Limit	Over			APos	TPos
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase		
-	MHZ	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	33.44	8.36	15.01	23.37	40.00	-16.63	Peak	HORIZONTAL		
2	129.01	8.97	10.36	19.33	43.50	-24.17	Peak	HORIZONTAL		
3	239.99	8.75	11.56	20.31	46.00	-25.69	Peak	HORIZONTAL		
4	362.98	8.61	15.26	23.87	46.00	-22.13	Peak	HORIZONTAL		
5	631.69	9.88	19.36	29.24	46.00	-16.76	Peak	HORIZONTAL		
6 pp	875.25	9.79	23.95	33.74	46.00	-12.26	Peak	HORIZONTAL		



Report No.: CQASZ20210400549E-01

Transmitter Emission above 1GHz

Worse case mode:		GFSK		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	54.18	-9.2	44.98	74	-29.02	Peak	н
2400	57.17	-9.39	47.78	74	-26.22	Peak	Н
4804	53.54	-4.33	49.21	74	-24.79	Peak	Н
7206	49.93	1.01	50.94	74	-23.06	Peak	Н
2390	53.29	-9.2	44.09	74	-29.91	Peak	V
2400	50.54	-9.39	41.15	74	-32.85	Peak	V
4804	55.03	-4.33	50.70	74	-23.30	Peak	V
7206	49.46	1.01	50.47	74	-23.53	Peak	V

Worse case mode:		GFSK		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	50.76	-4.11	46.65	74	-27.35	peak	Н
7320	48.97	1.51	50.48	74	-23.52	peak	Н
4880	53.12	-4.11	49.01	74	-24.99	peak	V
7320	49.75	1.51	51.26	74	-22.74	peak	V

Worse case mode:		GFSK		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	55.79	-9.29	46.50	74	-27.50	Peak	Н
4960	50.68	-4.04	46.64	74	-27.36	Peak	Н
7440	49.07	1.57	50.64	74	-23.36	Peak	Н
2483.5	57.58	-9.29	48.29	74	-25.71	Peak	V
4960	50.87	-4.04	46.83	74	-27.17	Peak	V
7440	48.48	1.57	50.05	74	-23.95	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.

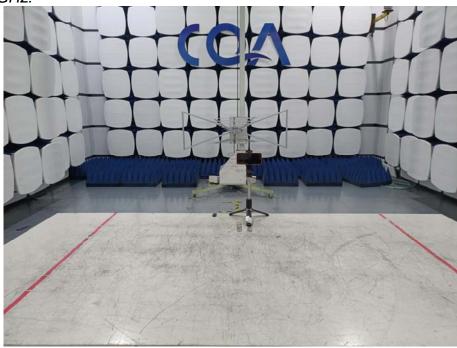
7 Photographs - EUT Test Setup

Radiated Spurious Emission

9KHz~30MHz:



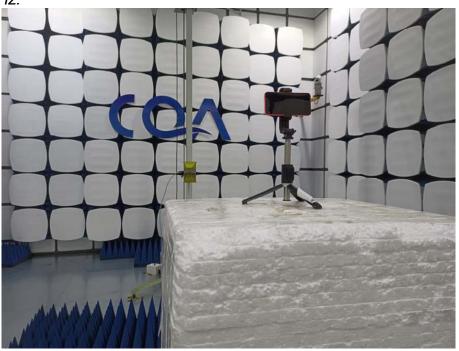
30MHz~1GHz:







Above 1GHz:





8 Photographs - EUT Constructional Details



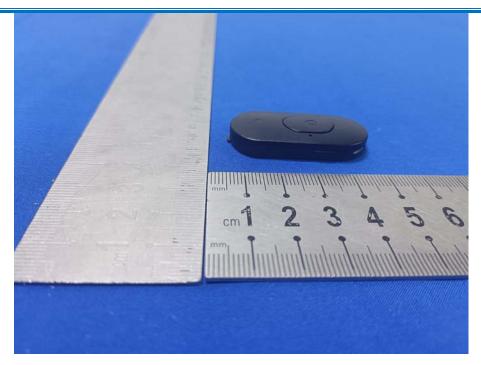


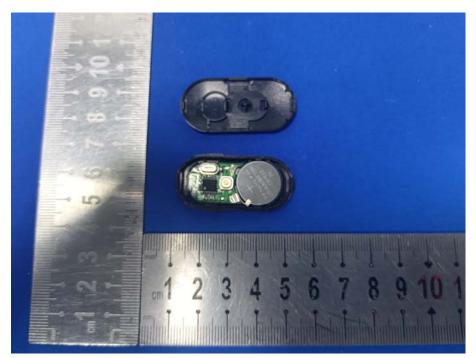






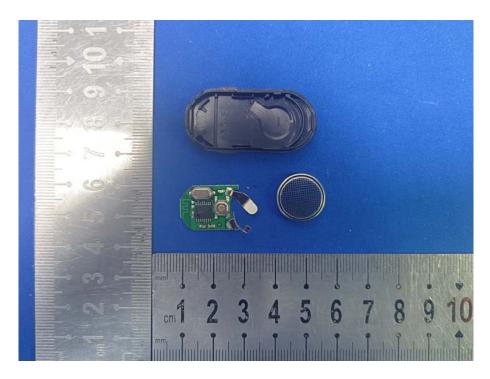




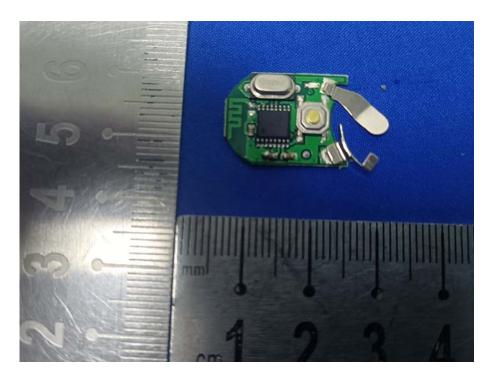


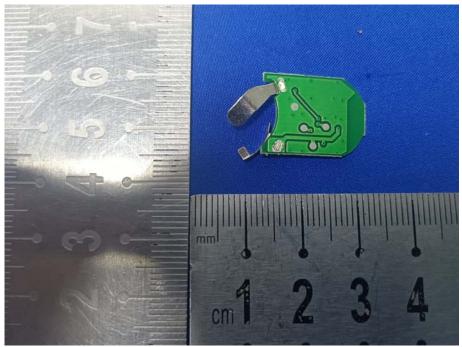












The End