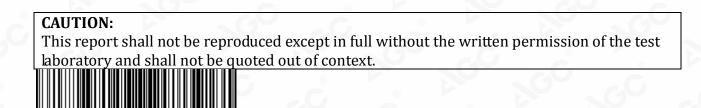


FCC Test Report

Report No.: AGC07592190903FE02

FCC ID	9	XBE-CA63
APPLICATION PURPOSE	0	Original Equipment
PRODUCT DESIGNATION	:	CA63
BRAND NAME	:	LINAK
MODEL NAME		CA6+09421T29200
APPLICANT	.i	LINAK A/S
DATE OF ISSUE		Nov. 15, 2019
STANDARD(S)	÷	FCC Part 15.247
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Nov. 15, 2019	Valid	Initial Release



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1. VERIFICATION OF COMPLIANCE

Applicant	LINAK A/S
Address	Group Headquarters Smedevænget 8, Guderup DK-6430 Nordborg, Denmark
Manufacturer	LINAK A/S
Address	Group Headquarters Smedevænget 8, Guderup DK-6430 Nordborg, Denmark
Factory	Flextronics Electronics Technology Co., Ltd.
Address	#89 Yong Fu Road, Tong Fu Yu Industrial Park, Fu Yong Town, Bao An District, Shenzhen, Guangdong 518103 CHINA
Product Designation	CA63
Brand Name	LINAK
Test Model	CA6+09421T29200
Date of test	Oct. 28, 2019 to Nov. 11, 2019
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

John Zen Prepared By John Zeng Nov. 11, 2019 **Project Engineer** Max Zhang **Reviewed By** Max Zhang Nov. 15, 2019 Reviewer Forrest Un Approved By Forrest Lei Nov. 15, 2019 Authorized Officer



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "CA63". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	0.830dBm(Max)
Bluetooth Version	V4.2
Modulation	BR GFSK, EDR π /4-DQPSK, 8DPSK BLE GFSK 1Mbps GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	-0.65dBi
Hardware Version	revA
Software Version	850004
Power Supply	AC 120V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	e e e e e e e e e e e e e e e e e e e	2404MHZ
2400~2483.5MHZ	· · · · · ·	G C C
	38	2478 MHZ
	39	2480 MHZ



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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID:XBE-CA63** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 2.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

For Conducted Test method, a temporary antenna connector is provided by the manufacture.
 For Radiated Emission, 3axis were chosen for testing for each applicable mode.

RF Design Based On: LAUNCHXL-C	C2650 🔻 🕘			DC/DC Enable				Configure Target
Typical Settings						_	_	
Category Settings	Setting Name							
* settings		PHY (1 Msym/s GFSK, 1 Mbps dat						
		PHY (2 Msym/s GFSK, 2 Mbps dat ded PHY with S=2 coding (1 Msym/						
		ded PHY with S=8 coding (1 Msym/						
							_	
RF Parameters 📀								
RF Parameters ② BLE Channel		Frequency			_	TX Power		
		Frequency 2440	▼ MHz		✓ Whitening	TX Power 2	▼ dBm	
BLE Channel 39			▼ MHz		Whitening		▼ dBm	
BLE Channel 39 Continuous TX Continuous RX Pa	cket TX Packet RX		▼ MHz		Vhitening		▼) dBm	
BLE Channel 39	cket TX Packet RX		▼ MHz	_	✓ Whitening		▼ dBm	_
BLE Channel 39 Continuous TX Continuous RX Pa	citet TX Pacitet RX		▼ MHz		Vitikening		▼ dBm	_
BLE Channel 39 Continuous TX Continuous RX Pa	chet TX Packet RX		▼ MHz		Vhitening		♥ dBm	
BLE Channel 39 Continuous TX Continuous RX Pa Modulated Unmodulated Prequency Sweep			♥ MHz		Vhitening		▼ dBm	
BLE Channel 39 Continuous TX Continuous RX Pa © Modulated I Prequency Sweep Start Freq. 2400 MHz			• UHZ		Vhitening		▼ dBm	
BLE Channel 39 Continuous TX Continuous RX Pa Modulated Unmodulated Prequency Sweep			• MHZ		Vhitening		v dBm	

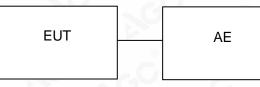




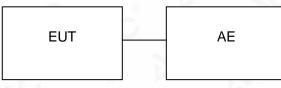
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	CA63	CA6+09421T29200	XBE-CA63	EUT
2	Control Box	N/A	N/A	AE
3	Hand Control	HB740000010006-300000003D 0C000	3.1m unshield	Accessory
4	Actuator *4	400402000A00B+11CB137012 000	DC 24V 6A(Max)	Accessory
5	Actuator Cable *4	N/A	1.3m unshield	Accessory
6	AC Inlet Cable	ASW0551-24020002A	3.6m unshield	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2018	May. 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



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7. PEAK OUTPUT POWER

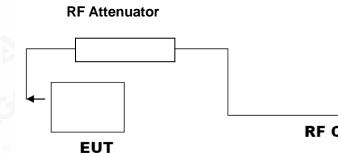
7.1. MEASUREMENT PROCEDURE

For peak power test:

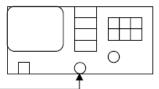
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable



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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION									
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail									
2.402	0.830	30	Pass						
2.440	0.546	30	Pass						
2.480	0.203	30	Pass						

CH0

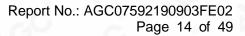




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AGC®





CH39

🎉 Agilent Spe	ctrum Analyzer - Swept SA							- ē 🔀
<mark>¤</mark> Marker 1	RF 50 Ω A 2.4797050000		SENSI	Av	ALIGN AUTO g Type: Log-Pwr	TRAC	MNov 02, 2019 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref 20.00 dBr	PNO: Fast G IFGain:Low	Trig: Free F Atten: 30 d		j Hold:>100/100 Mkr	DE 2.479 7	05 GHz	Next Peal
10.0			<u> </u>					Next Pk Righ
-10.0			•					Next Pk Lei
-20.0								Marker Delt
-40.0								Mkr→C
-50.0								Mkr→RefL
	480000 GHz					Span 5	.000 MHz	Mor 1 of
#Res BW	1.5 IVIHZ	#VBV	V 5.0 MHz		Sweep	1.000 ms (s	1001 pts)	



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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT								
	Applicable Limits							
Applicable Limits	Test Data	Criteria						
	Low Channel	700.9	PASS					
>500KHZ	Middle Channel	706.5	PASS					
	High Channel	722.0	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

07:12:58 PM Nov 02, 2019 Radio Std: None Center Freq: 2.40200000 GHz Trig: Free Run Avg|Hold #Atten: 30 dB Frequency Center Fred 2.402000000 GH Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS Ref 20.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms CF Step #VBW 300 kHz 300.000 kl Auto Total Power 7.70 dBm Occupied Bandwidth 1.0611 MHz Freq Offset 0 Hz Transmit Freq Error -44.685 kHz **OBW Power** 99.00 % x dB Bandwidth 700.9 kHz x dB -6.00 dB



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

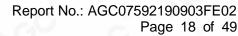
LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits	Test Data	Criteria						
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS						



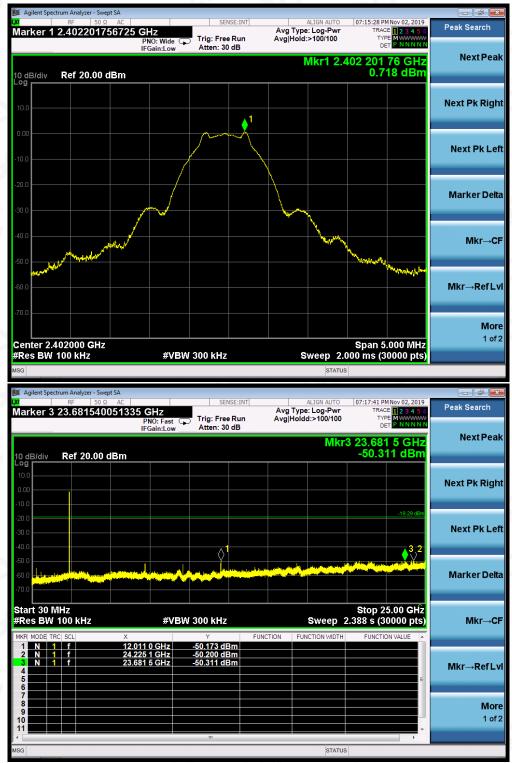
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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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GFSK MODULATION IN MIDDLE CHANNEL



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GFSK MODULATION IN HIGH CHANNEL

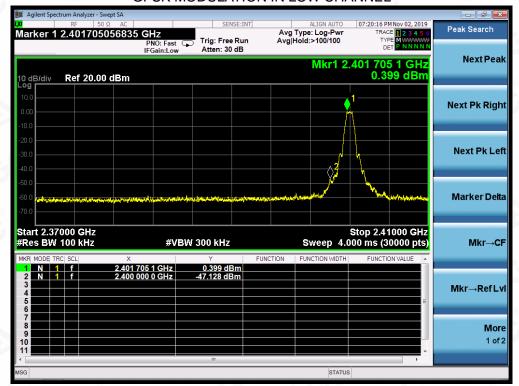
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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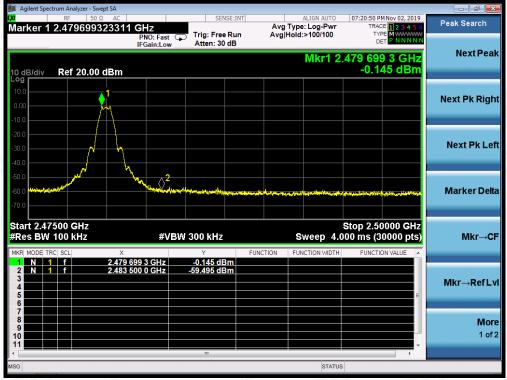
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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL





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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.205	8	Pass
Middle Channel	-11.671	8	Pass
High Channel	-11.069	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





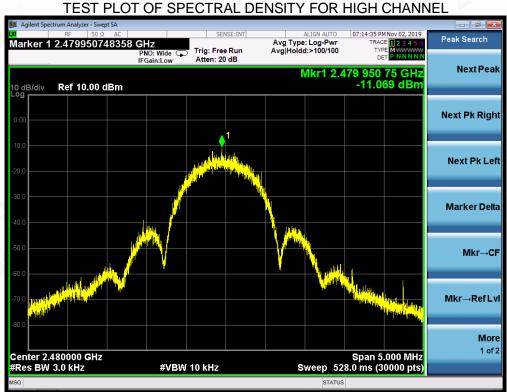
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL







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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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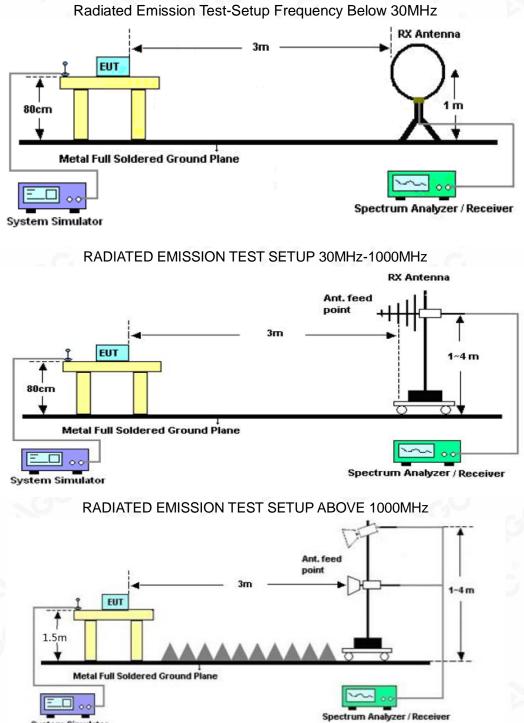
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11.2. TEST SETUP



bal Con Attestation of Global Compliance

System Simulator

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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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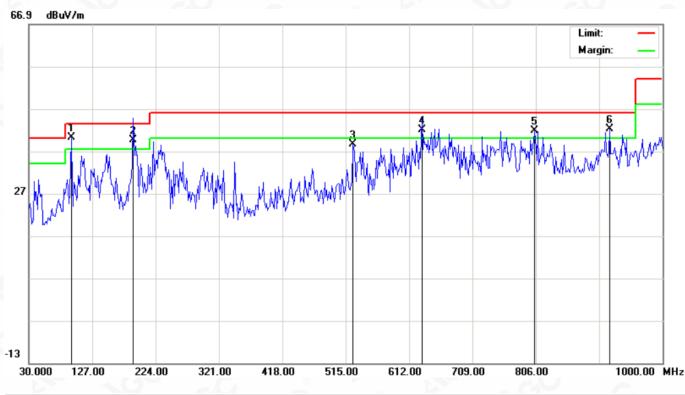
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RADIATED EMISSION BELOW 1GHZ

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	94.6667	24.68	15.46	40.14	43.50	-3.36	peak			
2	!	190.0500	23.11	16.59	39.70	43.50	-3.80	QP			
3		526.3167	13.01	25.51	38.52	46.00	-7.48	peak			
4	!	631.4000	14.70	27.33	42.03	46.00	-3.97	QP			
5	!	804.3832	11.28	30.47	41.75	46.00	-4.25	peak			
6	!	919.1667	10.28	31.86	42.14	46.00	-3.86	peak			

RESULT: PASS



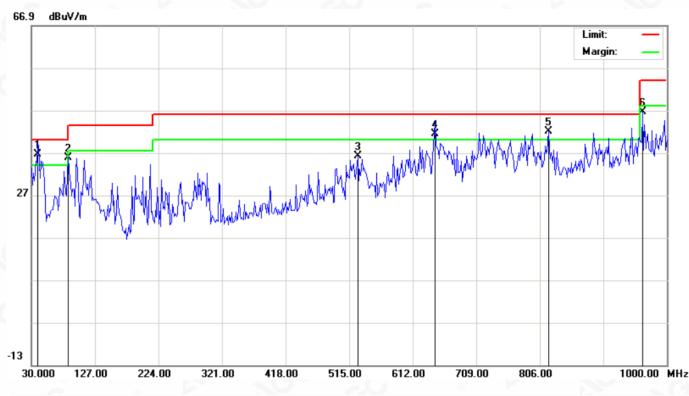
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EUT	CA63 Model Name		CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	1 <u>6.6</u> 1	19.98	36.59	40.00	-3.41	QP			
2	1	86.5832	20.87	14.97	35.84	40.00	-4.16	peak			
3		527.9333	10.68	25.54	36.22	46.00	-9.78	peak			
4	1	645.9500	13.81	27.50	41.31	46.00	-4.69	QP			
5	!	818.9333	11.30	30.65	41.95	46.00	-4.05	peak			
6		962.8166	14.33	32.24	46.57	54.00	-7.43	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	46.82	0.08	46.9	74	-27.1	peak
4804.000	38.64	0.08	38.72	54	-15.28	AVG
7206.000	40.55	2.21	42.76	74	-31.24	peak
7206.000	33.67	2.21	35.88	54	-18.12	AVG
	0				0	
omark:			0		.00	
Remark:	<u> </u>		©		20-	<u> </u>
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.	(2)		

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin 💿	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
45.42	0.08	45.5	74	-28.5	peak
37.72	0.08	37.8	54	-16.2	AVG
39.51	2.21	41.72	74	-32.28	peak
32.69	2.21	34.9	54	-19.1	AVG
NO.	00	· · · · · · · · · · · · · · · · · · ·			GC
	(dBµV) 45.42 37.72 39.51	(dBµV) (dB) 45.42 0.08 37.72 0.08 39.51 2.21	(dBµV) (dB) (dBµV/m) 45.42 0.08 45.5 37.72 0.08 37.8 39.51 2.21 41.72	(dBµV) (dB) (dBµV/m) (dBµV/m) 45.42 0.08 45.5 74 37.72 0.08 37.8 54 39.51 2.21 41.72 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 45.42 0.08 45.5 74 -28.5 37.72 0.08 37.8 54 -16.2 39.51 2.21 41.72 74 -32.28



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EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

			1.1.1.		
Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.31	0.14	46.45	74	-27.55	peak
38.45	0.14	38.59	54	-15.41	AVG
41.59	2.36	43.95	74	-30.05	peak
33.09	2.36	35.45	54	-18.55	AVG
6				0	(2)
		0		- 64	
	46.31 38.45 41.59	(dBµV) (dB) 46.31 0.14 38.45 0.14 41.59 2.36	(dBµV) (dB) (dBµV/m) 46.31 0.14 46.45 38.45 0.14 38.59 41.59 2.36 43.95	(dBµV) (dB) (dBµV/m) (dBµV/m) 46.31 0.14 46.45 74 38.45 0.14 38.59 54 41.59 2.36 43.95 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 46.31 0.14 46.45 74 -27.55 38.45 0.14 38.59 54 -15.41 41.59 2.36 43.95 74 -30.05

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.97	0.14	45.11	74	-28.89	peak
36.54	0.14	36.68	54	-17.32	AVG
37.64	2.36	40	74	-34	peak
30.66	2.36	33.02	54	-20.98	AVG
	0	0			3
	(dBµV) 44.97 36.54 37.64	(dBµV) (dB) 44.97 0.14 36.54 0.14 37.64 2.36	(dBµV) (dB) (dBµV/m) 44.97 0.14 45.11 36.54 0.14 36.68 37.64 2.36 40	(dBµV) (dB) (dBµV/m) (dBµV/m) 44.97 0.14 45.11 74 36.54 0.14 36.68 54 37.64 2.36 40 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 44.97 0.14 45.11 74 -28.89 36.54 0.14 36.68 54 -17.32 37.64 2.36 40 74 -34

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.37	0.22	45.59	74	-28.41	peak
4960.000	35.31	0.22	35.53	54	-18.47	AVG
7440.000	37.41	2.64	40.05	74	-33.95	peak
7440.000	29.73	2.64	32.37	54	-21.63	AVG
<u>.</u>	6				0	R
emark:	0 - 0		0		10	- 6

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	43.63	0.22	43.85	74	-30.15	peak
4960.000	36.01	0.22	36.23	54	-17.77	AVG
7440.000	36.83	2.64	39.47	74	-34.53	peak
7440.000	29.61	2.64	32.25	54	-21.75	AVG
		CO-		0		60
emark:			- 64		8	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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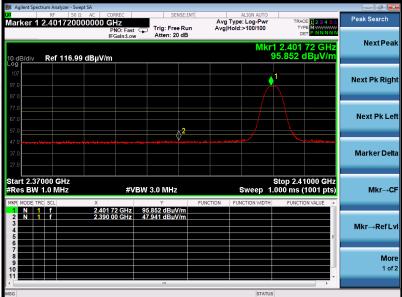


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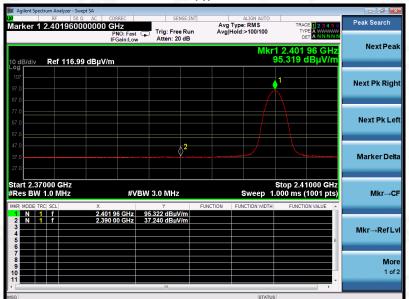
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS



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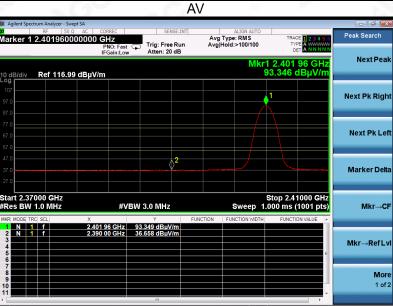
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EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





RESULT: PASS



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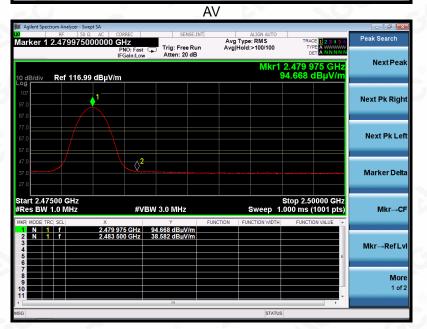
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EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
		DV	





RESULT: PASS



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EUT	CA63	Model Name	CA6+09421T29200
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
		DIZ	



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



More 1 of 2

12. FCC LINE CONDUCTED EMISSION TEST

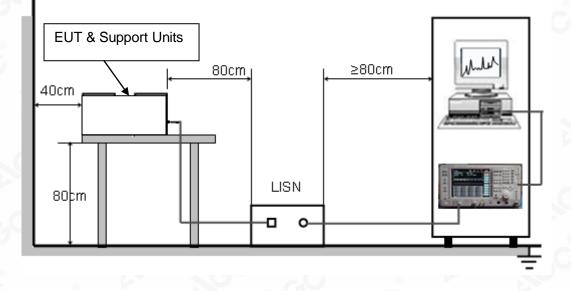
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage		
Frequency	Q.P.(dBuV)	Average(dBuV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

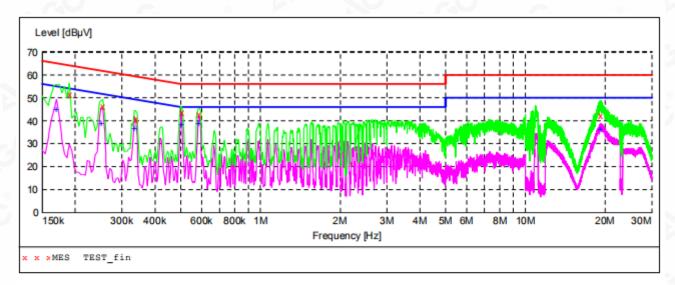
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.







12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "TEST_fin"

2019/11/1 16:5	4						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.190000	51.40	10.8	64	12.6	OP	L1	FLO
0.254000	46.40	10.8	62	15.2	QP .	L1	FLO
0.338000	40.70	10.5	59	18.6	QP	L1	FLO
0.502000	43.80	11.0	56	12.2	QP	L1	FLO
0.586000	42.60	10.6	56	13.4	QP	L1	FLO
19.234000	42.50	12.6	60	17.5	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

20	19/11/1 16:	56						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.170000	45.10	10.7	55	9.9	AV	L1	FLO
	0.250000	38.90	10.8	52	12.9	AV	L1	FLO
	0.334000	36.90	10.6	49	12.5	AV	L1	FLO
	0.502000	38.20	11.0	46	7.8	AV	L1	FLO
	0.586000	38.90	10.6	46	7.1	AV	L1	FLO
	19.214000	36.30	12.6	50	13.7	AV	L1	FLO



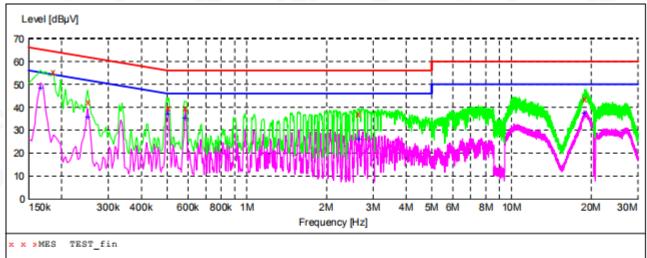
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Line Conducted Emission Test Line 2-N



"TEST fin" ASUREMENT RESULT:

2019/11/1 17:0	1						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBuV	dB	dBµV	dB			
0.186000	55.30	10.8	64	8.9	QP	N	FLO
0.250000	42.30	10.8	62	19.5	QP	N	FLO
0.506000	39.80	11.0	56	16.2	QP	N	FLO
0.586000	39.80	10.6	56	16.2	QP	N	FLO
2.646000	37.10	11.3	56	18.9	QP	N	FLO
18.842000	43.80	12.6	60	16.2	OP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2019/11/1 17	:01						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.166000	48.40	10.7	55	6.8	AV	N	FLO
0.250000	35.60	10.8	52	16.2	AV	N	FLO
0.502000	37.00	11.0	46	9.0	AV	N	FLO
0.586000	35.40	10.6	46	10.6	AV	N	FLO
2.646000	26.10	11.3	46	19.9	AV	N	FLO
18.918000	37.40	12.6	50	12.6	AV	N	FLO

RESULT: PASS

2

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP ABOVE 1GHZ





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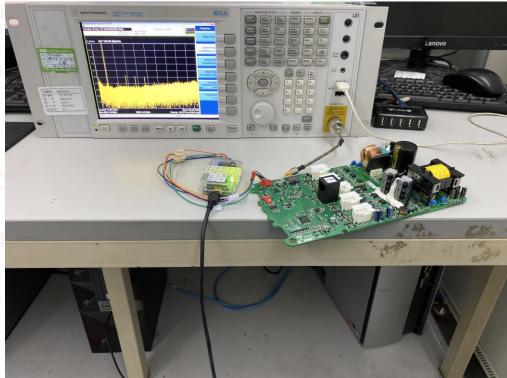


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CONDUCTED EMISSION TEST SETUP

CONDUCTED TEST SETUP





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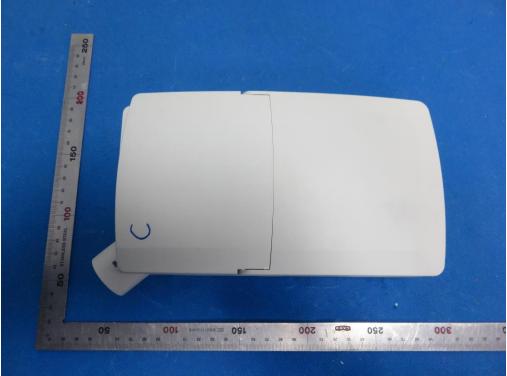
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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT





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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT





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LEFT VIEW OF EUT





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RIGHT VIEW OF EUT



VIEW OF EUT(PORT)





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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2





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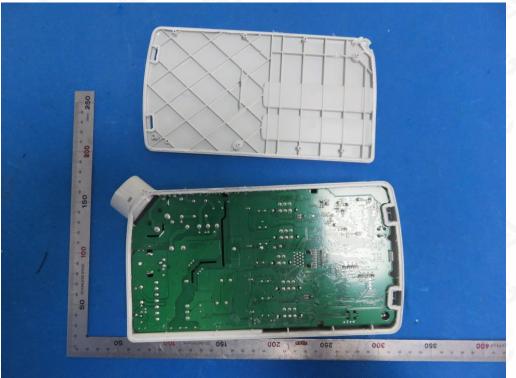
 Add:
 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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 E-mail:agc@agc-cert.com
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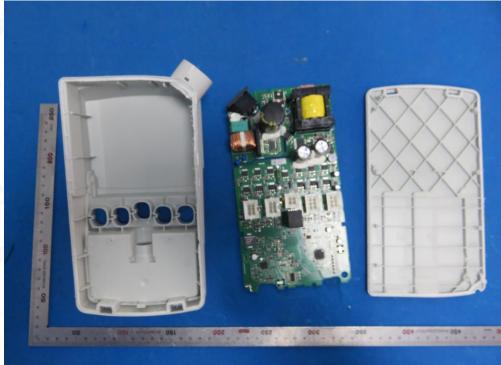


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OPEN VIEW OF EUT-3



OPEN VIEW OF EUT-4





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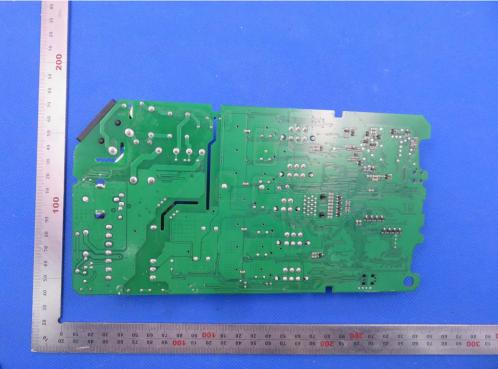


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

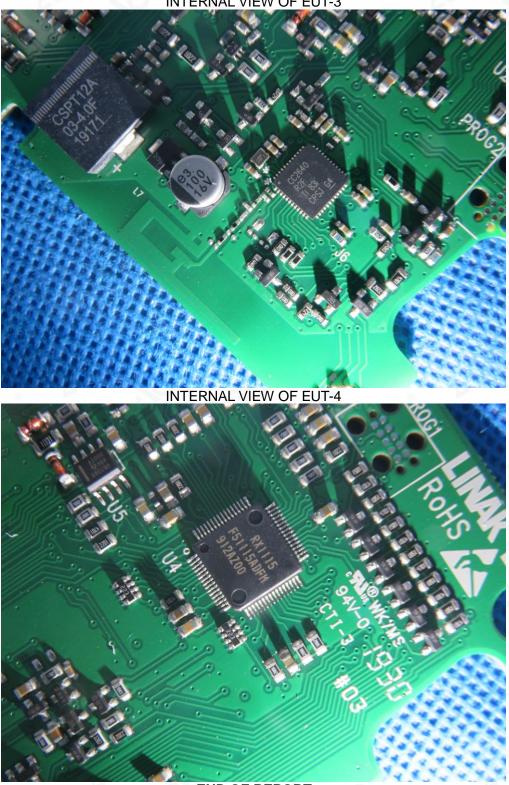




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INTERNAL VIEW OF EUT-3

--- END OF REPORT----



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