

FCC Test Report

Report No.: AGC02732180301FE03

FCC ID : 2APBT-SCLAK

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Sclak safer and smater locks

BRAND NAME : SCLAK

MODEL NAME : SCLAK

CLIENT : sclak srl

DATE OF ISSUE : Mar. 21, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC 3

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Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience 1 8 Marie	Mar. 21, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	sclak srl
Address	Via degli Olivetani 10/12, 20123 Milano, Italy
Manufacturer	sclak srl
Address	Via degli Olivetani 10/12, 20123 Milano, Italy
Product Designation	Sclak safer and smater locks
Brand Name	SCLAK
Test Model	SCLAK
Date of test	Mar. 09, 2018 to Mar. 19, 2018
Deviation	None San Annual Control of the Contr
Condition of Test Sample	Normal State of the Control of the C
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tooted By	pang lu	
Tested By	Berg Lu(Lu Bing)	Mar. 19, 2018
Reviewed By	Foresto ce	
The Complained	Forrest Lei(Lei Yonggang)	Mar. 21, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	-1.93dBm(Max EIRP Power=Max radiation field-95.2)	
Bluetooth Version	V4.1 © A A A A A A A A A A A A A A A A A A	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK	V
Number of channels	40 for BLE	
Hardware Version	1.0	
Software Version	1.0	
Antenna Designation	PCB Antenna	8
Antenna Gain	2.1dBi	
Power Supply	AC/DC 12V/24V	~11
Note: The EUT can be sur test report.	plied by AC/DC 12V/24V. Only the worst mode test data(DC 24V) recorded in the	Manc

2.2. TABLE OF CARRIER FREQUENCYS

BLE Channel List

Frequency Band	Channel Number	Frequency		
lin;	0	2402MHz		
E Stand Correlaires	C Town	2404MHz		
2400~2483.5MHz	100	The state of the s		
Co lo	38	2478 MHz		
The state of the s	39	2480 MHz		

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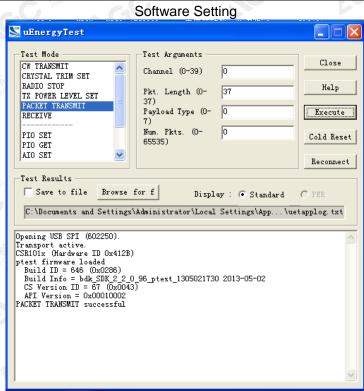
3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
® Frank Torot Cooks	Low channel GFSK
2 60	Middle channel GFSK
3	High channel GFSK
4 4	BT Link



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KEL.	
EUT	Hallon	Control box	0,00	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

E 7/10				
Equipment	Mfr/Brand	Model/Type No.	Remark	
Sclak safer and smater	SCLAK	SCLAK	EUT	
Mobile phone	Iphone	6S PLUS	A.E	
Control box	CSR	USB_SPI_TOOLS	A.E	
Cable	N/A	0.6m unshielded	A.E	
LOAD	HXP	RX24	A.E	
DC Source	GWINSTEK	GPR-6060D	A.E	
	Sclak safer and smater Mobile phone Control box Cable LOAD	Sclak safer and smater SCLAK Mobile phone Control box CSR Cable LOAD HXP	Sclak safer and smater SCLAK Mobile phone Iphone GS PLUS Control box CSR USB_SPI_TOOLS Cable N/A 0.6m unshielded LOAD HXP RX24	

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

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Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	G -	Mar. 01, 2018	Feb. 28, 2020

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit						
(MHz)	Meters	μ V/m	dB(μV)/m					
0.009 ~ 0.490	300	2400/F(kHz)	9					
0.490 ~ 1.705	30	24000/F(kHz)	技訓					
1.705 ~ 30	30	30	(Copy of Copy					
30 ~ 88	3	100	40.0					
88 ~ 216	3 - 6	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3 The state of the	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(μV)/m					

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

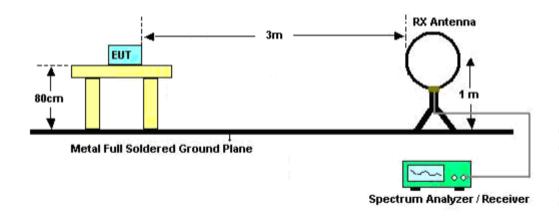
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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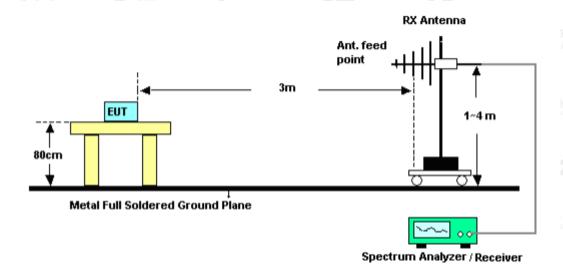


9.3. TEST SETUP

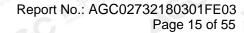
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

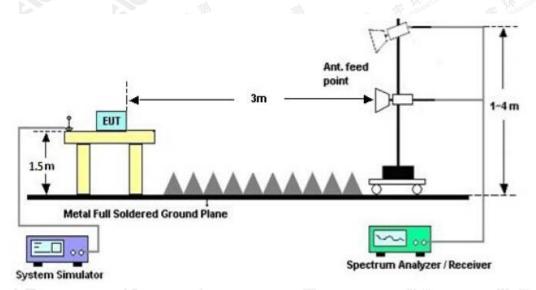


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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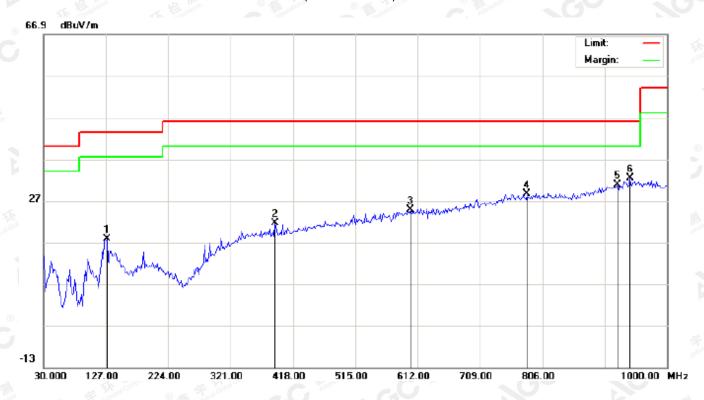
9.4. TEST RESULT FOR BLE

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



_												
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
	1		128.6167	7.89	9.88	17.77	43.50	-25.73	peak			
200	2		390.5167	2.66	19.01	21.67	46.00	-24.33	peak			
	3		600.6833	1.11	23.73	24.84	46.00	-21.16	peak			
	4		781.7500	1.56	27.07	28.63	46.00	-17.37	peak			
	5		922.4000	1.65	29.23	30.88	46.00	-15.12	peak			
	6	*	941.8000	2.58	29.77	32.35	46.00	-13.65	peak			

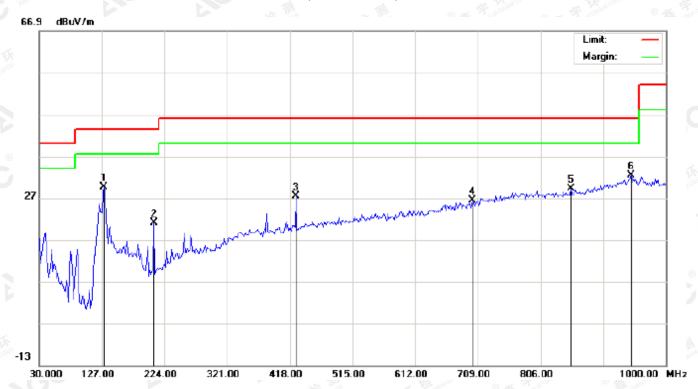
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		130.2333	18.46	11.13	29.59	43.50	-13.91	peak			
2		207.8333	11.27	9.77	21.04	43.50	-22.46	peak			
3		427.7000	7.58	19.91	27.49	46.00	-18.51	peak			
4		700.9167	1.09	25.22	26.31	46.00	-19.69	peak			
5		852.8833	1.91	27.38	29.29	46.00	-16.71	peak			
6	*	946.6500	2.41	29.91	32.32	46.00	-13.68	peak			

RESULT: PASS

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

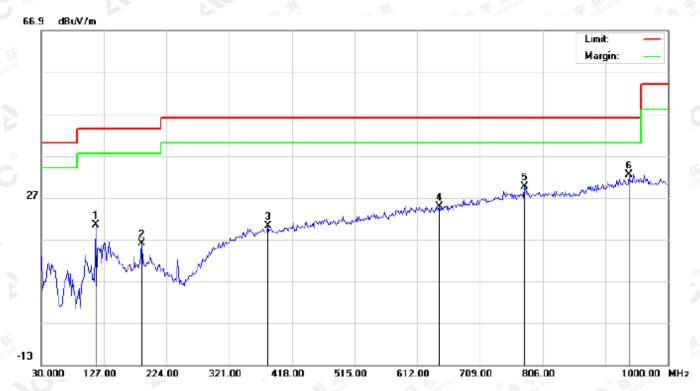
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



					***			-	4 000		- 110	
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
9		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
97	1		114.0667	13.09	7.23	20.32	43.50	-23.18	peak			
	2		185.2000	4.72	11.31	16.03	43.50	-27.47	peak			
	3		380.8167	1.30	18.94	20.24	46.00	-25.76	peak			
	4		645.9500	1.02	23.84	24.86	46.00	-21.14	peak			
	5		778.5167	2.61	27.02	29.63	46.00	-16.37	peak			
	6	*	940.1833	2.70	29.73	32.43	46.00	-13.57	peak			

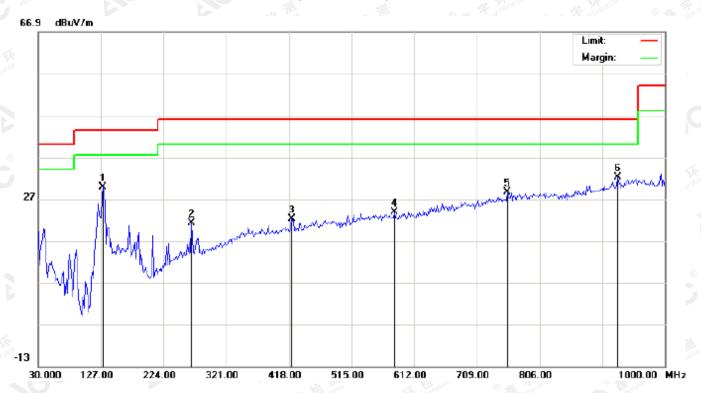
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	130.2333	18.66	11.13	29.79	43.50	-13.71	peak			
2		267.6500	6.69	14.43	21.12	46.00	-24.88	peak			
3		422.8500	2.47	19.76	22.23	46.00	-23.77	peak			
4		581.2833	1.26	22.64	23.90	46.00	-22.10	peak			
5		755.8833	1.81	26.71	28.52	46.00	-17.48	peak			
6		927.2500	2.75	29.37	32.12	46.00	-13.88	peak			

RESULT: PASS

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

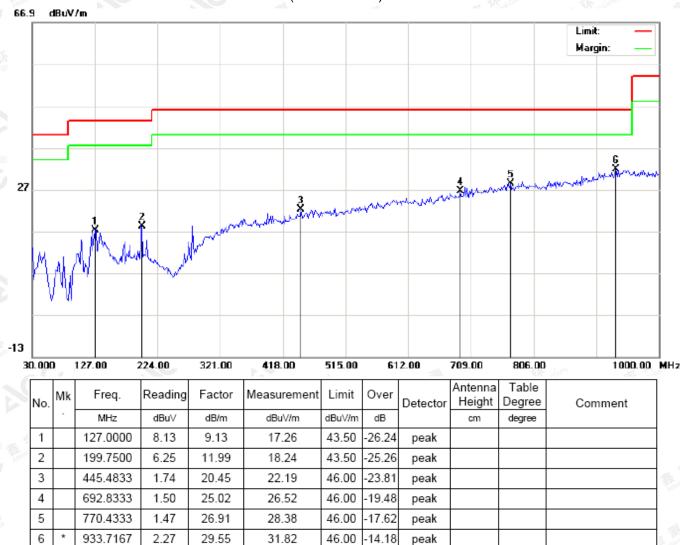
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



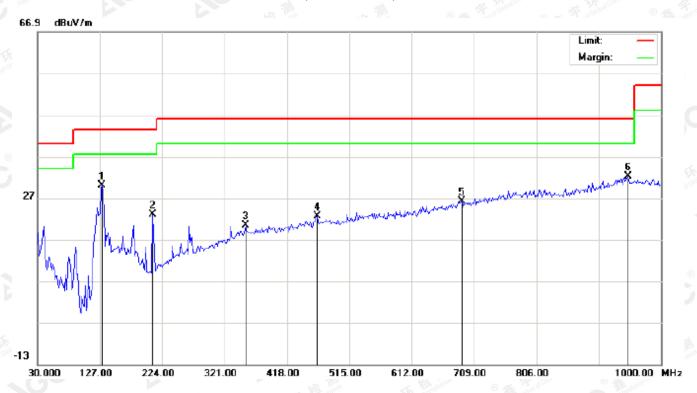
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
\$	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	130.2333	18.90	11.13	30.03	43.50	-13.47	peak			
2		209.4500	13.11	9.93	23.04	43.50	-20.46	peak			
3		353.3333	1.71	18.76	20.47	46.00	-25.53	peak			
4		464.8833	1.86	20.75	22.61	46.00	-23.39	peak			
5		689.6000	1.38	24.91	26.29	46.00	-19.71	peak			
6		948.2667	2.20	29.95	32.15	46.00	-13.85	peak			

RESULT: PASS

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

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

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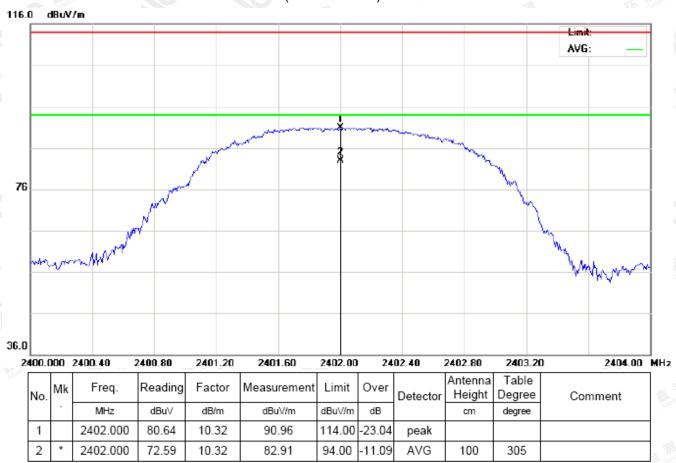


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RADIATED EMISSION ABOVE 1GHz FOR BLE

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



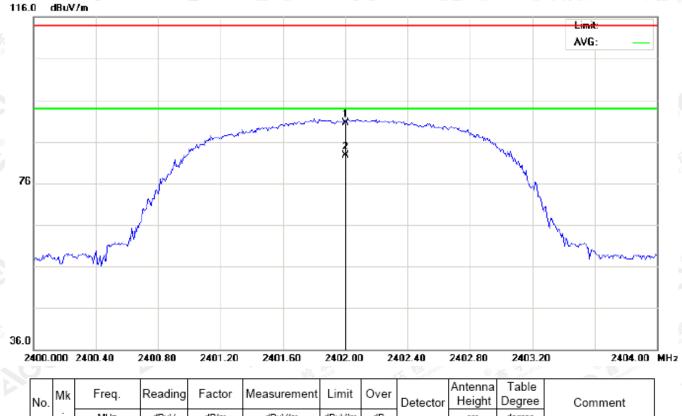
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	80.22	10.32	90.54	114.00	-23.46	peak			
2	*	2402.000	72.35	10.32	82.67	94.00	-11.33	AVG	100	145	

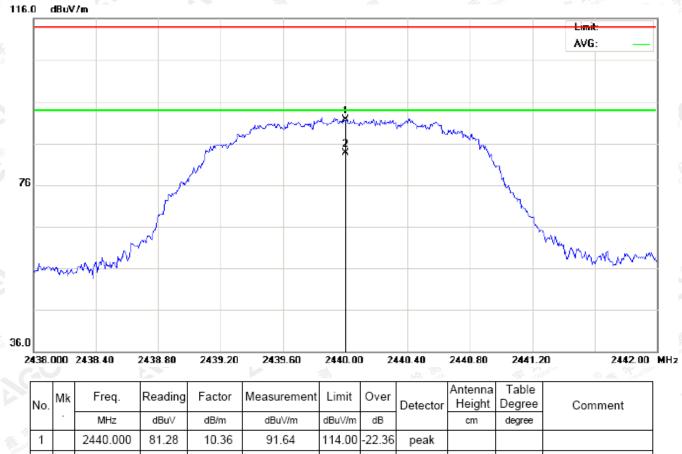
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
~			MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
10'	1		2440.000	81.28	10.36	91.64	114.00	-22.36	peak			
	2	*	2440.000	73.27	10.36	83.63	94.00	-10.37	AVG	100	306	

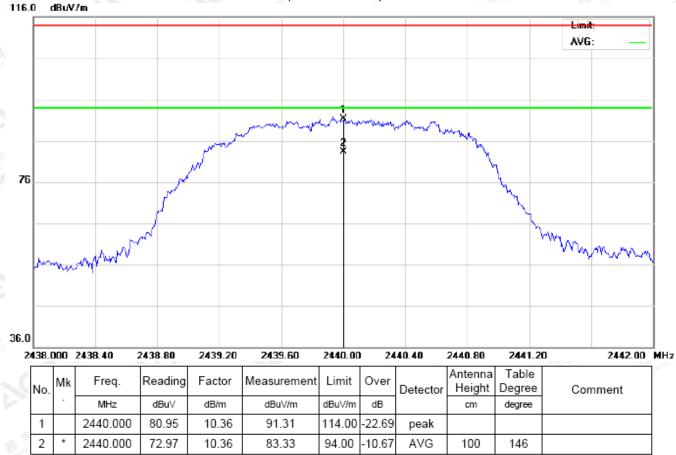
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



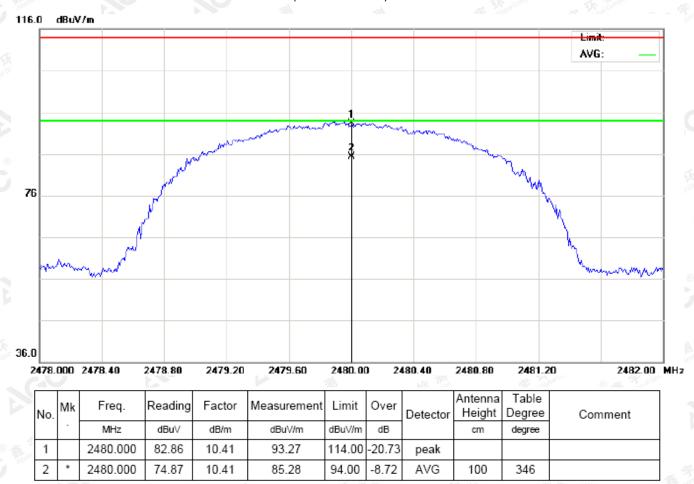
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



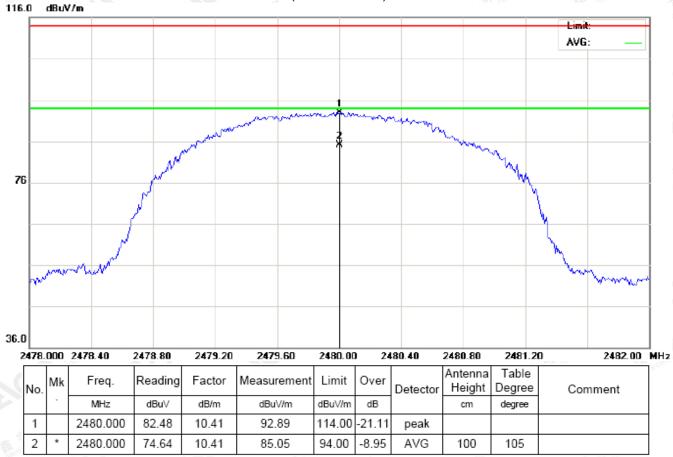
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



RESULT: PASS

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	80.64	10.32	90.96	114	-23.04	Horizontal	
2402	80.22	10.32	90.54	114	-23.46	Vertical	
2440	81.28	10.36	91.64	114	-22.36	Horizontal	
2440	80.95	10.36	91.31	114	-22.69	Vertical	
2480	82.86	10.41	93.27	114	-20.73	Horizontal	
2480	82.48	10.41	92.89	114	-21.11	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	72.59	10.32	82.91	94	-11.09	Horizontal	
2402	72.35	10.32	82.67	94	-11.33	Vertical	
2440	73.27	10.36	83.63	94	-10.37	Horizontal	
2440	72.97	10.36	83.33	94	-10.67	Vertical	
2480	74.87	10.41	85.28	94	-8.72	Horizontal	
2480	74.64	10.41	85.05	94	-8.95	Vertical	

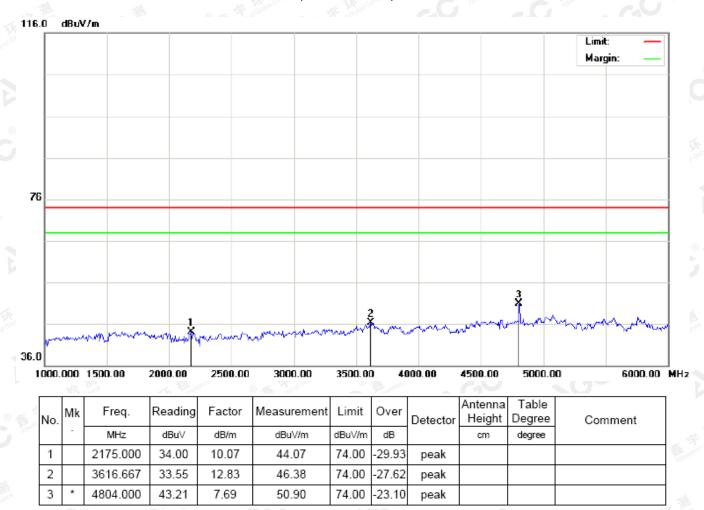
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For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



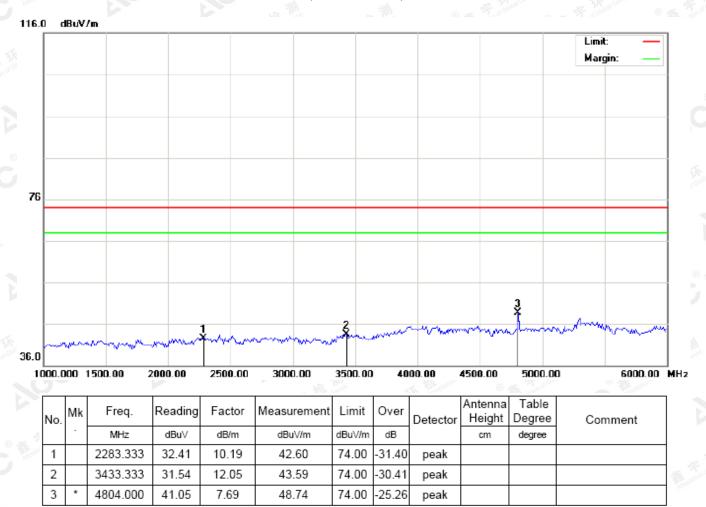
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



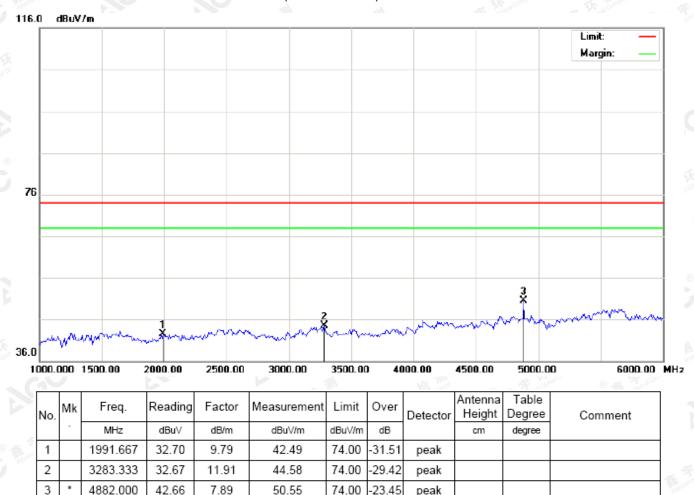
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



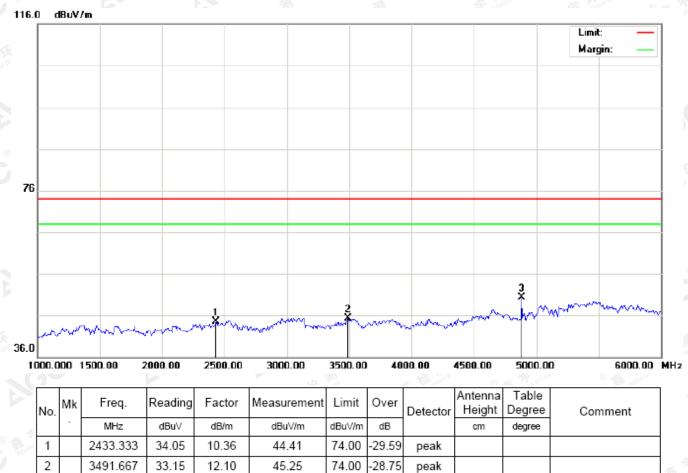
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



74.00

peak

RESULT: PASS

4882.000

42.39

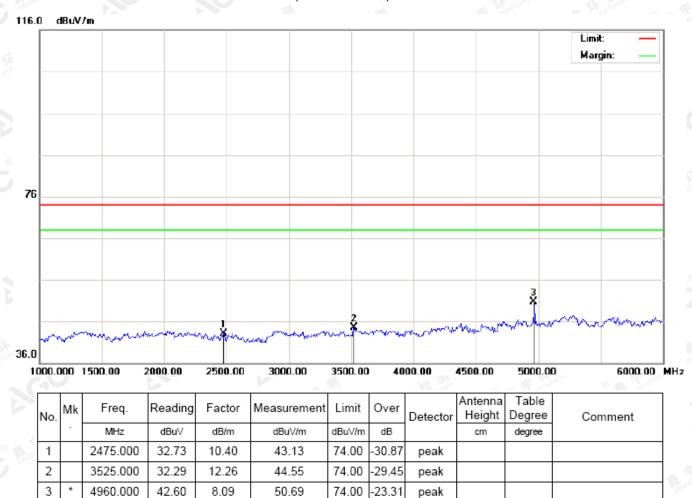
7.89

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



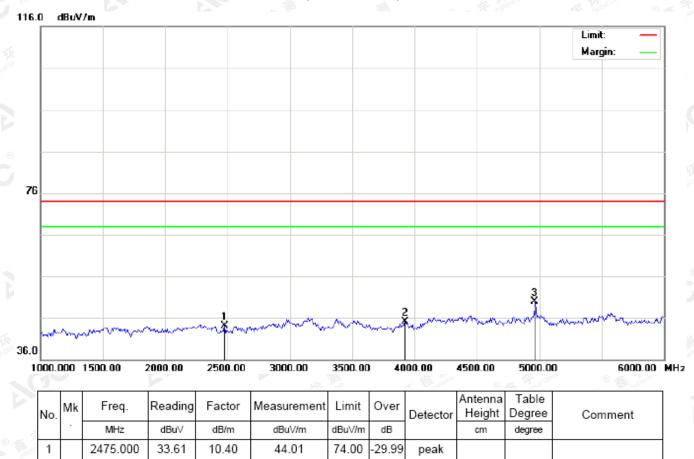
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



RESULT: PASS

3925.000

4960.000

2

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

14.73

8.09

30.33

41.91

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

45.06

50.00

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

74.00

74.00

28.94

-24.00

peak

peak

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10. BAND EDGE EMISSION

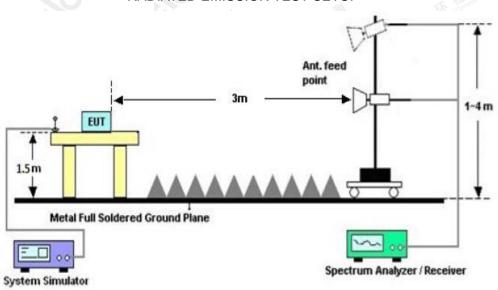
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)				Stop frequency(MHz)			
	2200	Timplanes	The Compline	® Market Strong	2405	1GO	
(S) ##	2478	Bobal Co	estation of Glob	-,0	2500		

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

FOR BLE

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
	1		2381.083	31.86	10.30	42.16	74.00	-31.84	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	80.63	10.32	90.95	74.00	16.95	peak			
	5	Х	2402.000	72.58	10.32	82.90	74.00	8.90	AVG	100	325	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



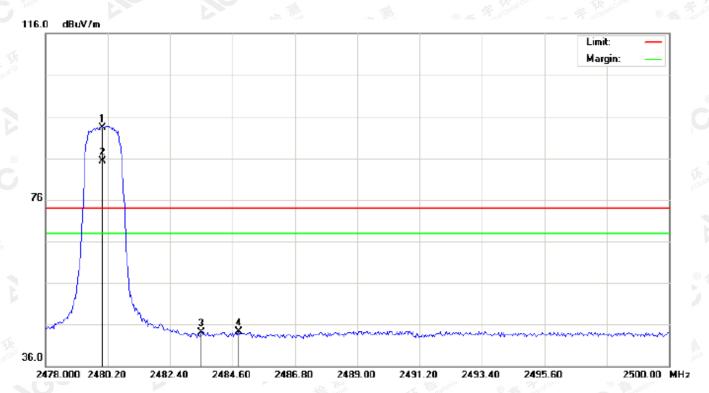
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2378.350	31.78	10.30	42.08	74.00	-31.92	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	80.20	10.32	90.52	74.00	16.52	peak			
5	Х	2402.000	72.58	10.32	82.90	74.00	8.90	AVG	100	147	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



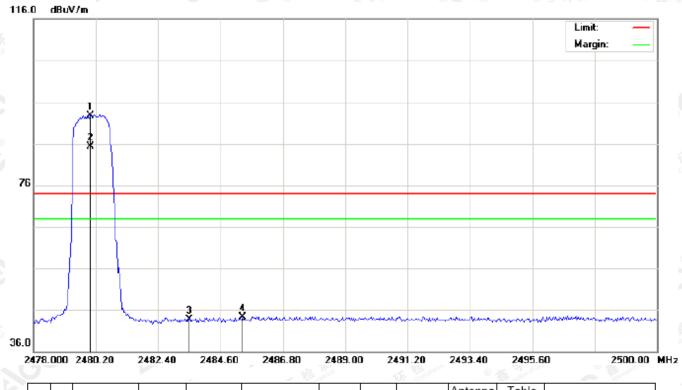
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	1	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	82.85	10.41	93.26	74.00	19.26	peak			
2	Х	2480.000	74.86	10.41	85.27	74.00	11.27	AVG	100	301	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ej.		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
Ye	1	*	2480.000	82.39	10.41	92.80	74.00	18.80	peak			
ſ	2	Х	2480.000	74.80	10.41	85.21	74.00	11.21	AVG	100	125	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.370	33.89	10.41	44.30	74.00	-29.70	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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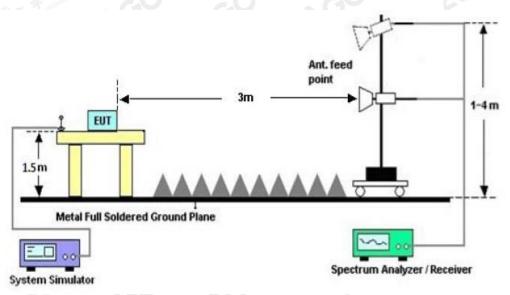
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

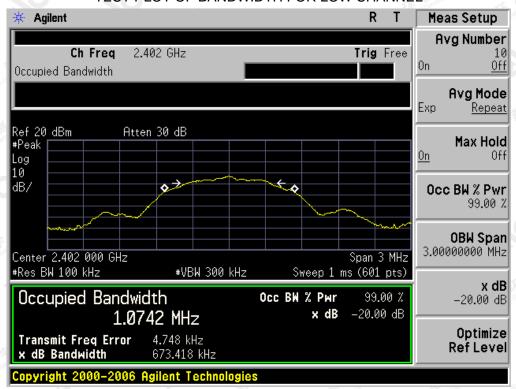
FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
Solve Company	Low Channel	1.074	0.673	PASS						
N/A	Middle Channel	1.074	0.679	PASS						
	High Channel	1.076	0.693	PASS						

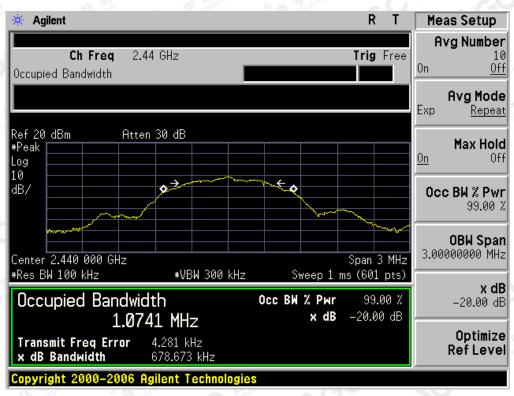
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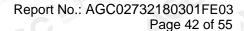
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

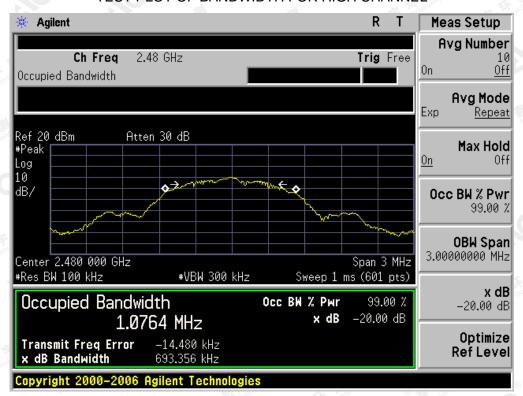


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

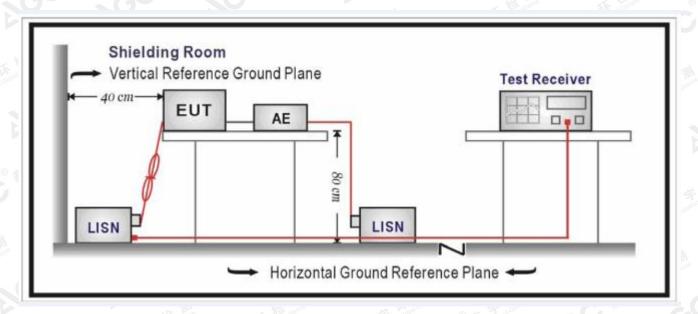
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

- 1. 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 voltage by adapter which received 120V/60Hzpower 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.
- 2. 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.

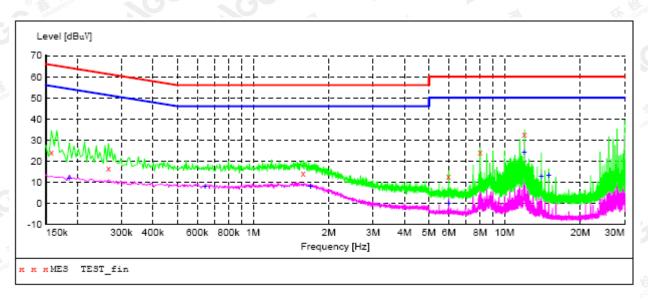
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

FOR BLE

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

2018/3/19 9:48 Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000 0.266000 1.582000 5.990000 7.986000 11.978000	24.00 16.70 14.00 12.80 24.30 32.60	10.0 10.1 10.0 10.0 10.1	66 61 56 60 60	41.6 44.5 42.0 47.2 35.7 27.4	QP QP QP QP QP OP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

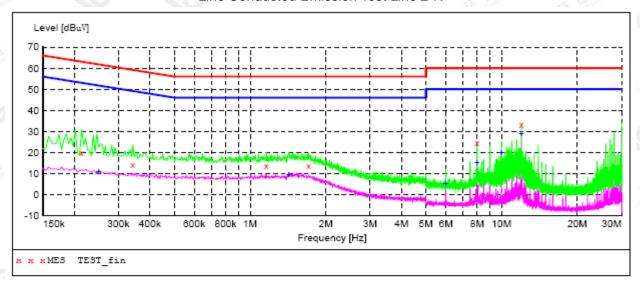
MEASUREMENT RESULT: "TEST fin2"

2018/3/19 9 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.186000	11.90	10.0	54	42.3	AV	L1	GND
0.646000	7.80	9.9	46	38.2	AV	L1	GND
1.694000	7.80	10.0	46	38.2	AV	L1	GND
5.990000	-0.10	10.0	50	50.1	AV	L1	GND
11.978000	24.30	10.1	50	25.7	AV	L1	GND
13.974000	12.80	9.7	50	37.2	AV	L1	GND
14.970000	13.10	9.5	50	36.9	AV	L1	GND

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

	/3/19 9:3 requency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
(0.214000	19.80	10.1	63	43.2	QP	N	GND
(342000	14.10	10.0	59	45.1	QP	N	GND
1	1.162000	13.60	10.1	56	42.4	QP	N	GND
1	1.710000	13.50	10.0	56	42.5	QP	N	GND
7	7.986000	24.80	10.1	60	35.2	QP	N	GND
11	1.978000	33.30	10.1	60	26.7	QP	N	GND

MEASUREMENT RESULT: "TEST fin2"

2018/3/19 9:39 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.250000	10.70	10.1	52	41.1	AV	N	GND
1.426000	9.50	10.0	46	36.5	AV	N	GND
5.986000	5.20	10.0	50	44.8	AV	N	GND
7.986000	14.90	10.1	50	35.1	AV	N	GND
9.982000	20.10	10.5	50	29.9	AV	N	GND
11.978000	28.90	10.1	50	21.1	AV	N	GND

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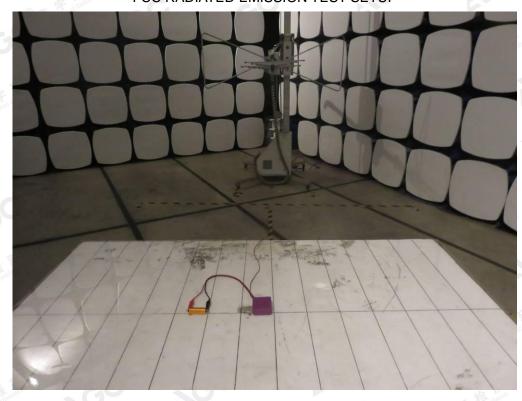


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

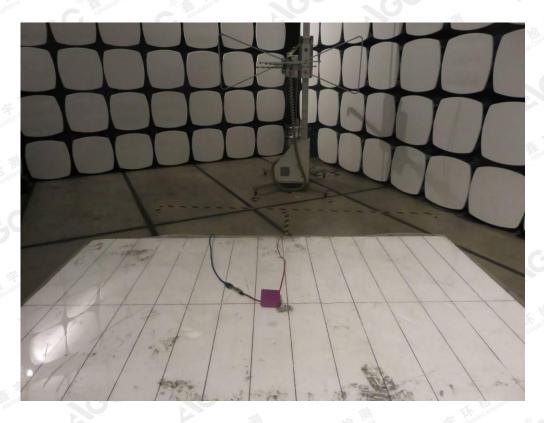


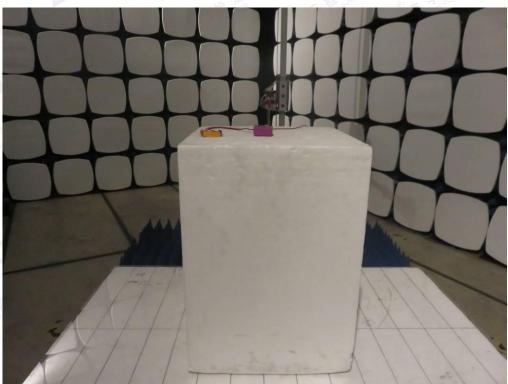
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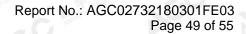




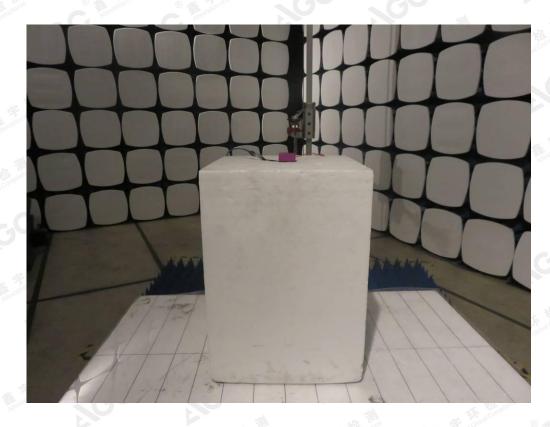
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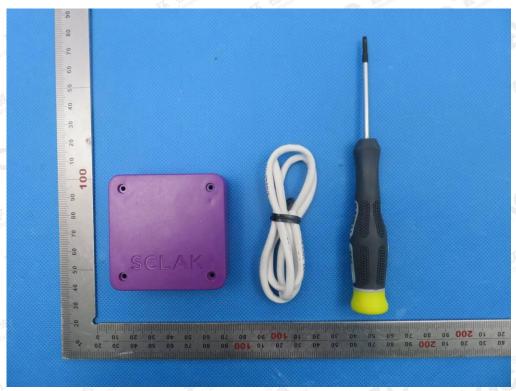


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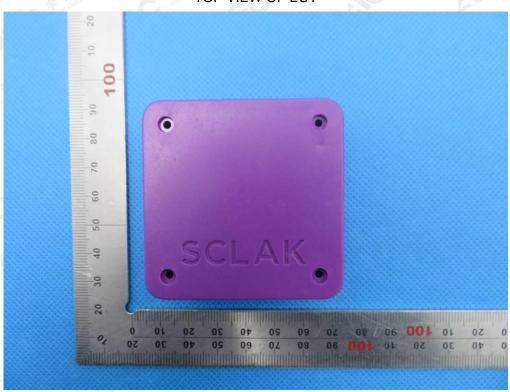


APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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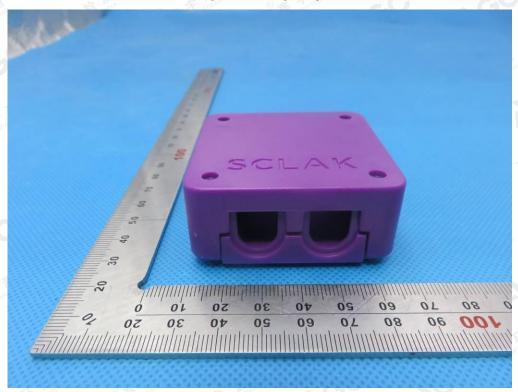
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



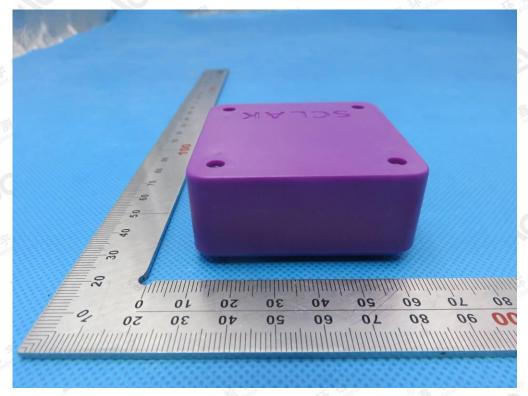
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BACK VIEW OF EUT



LEFT VIEW OF EUT



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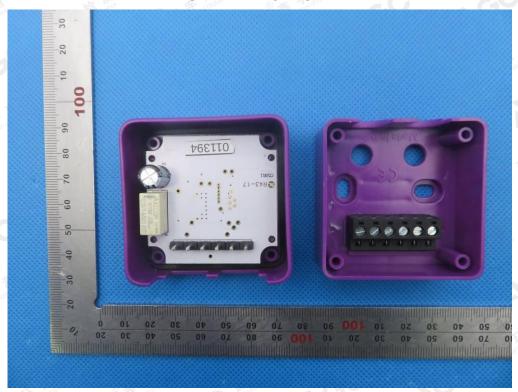
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RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



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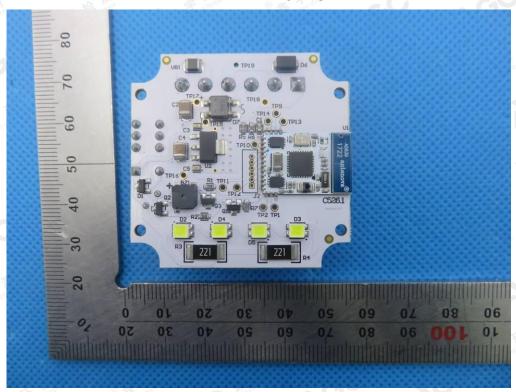
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OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1



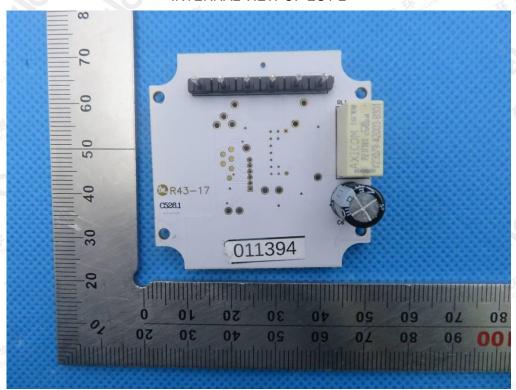
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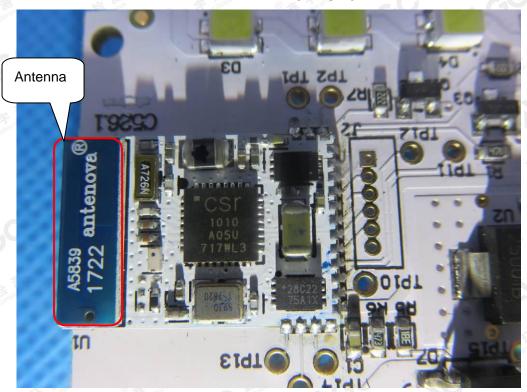
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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