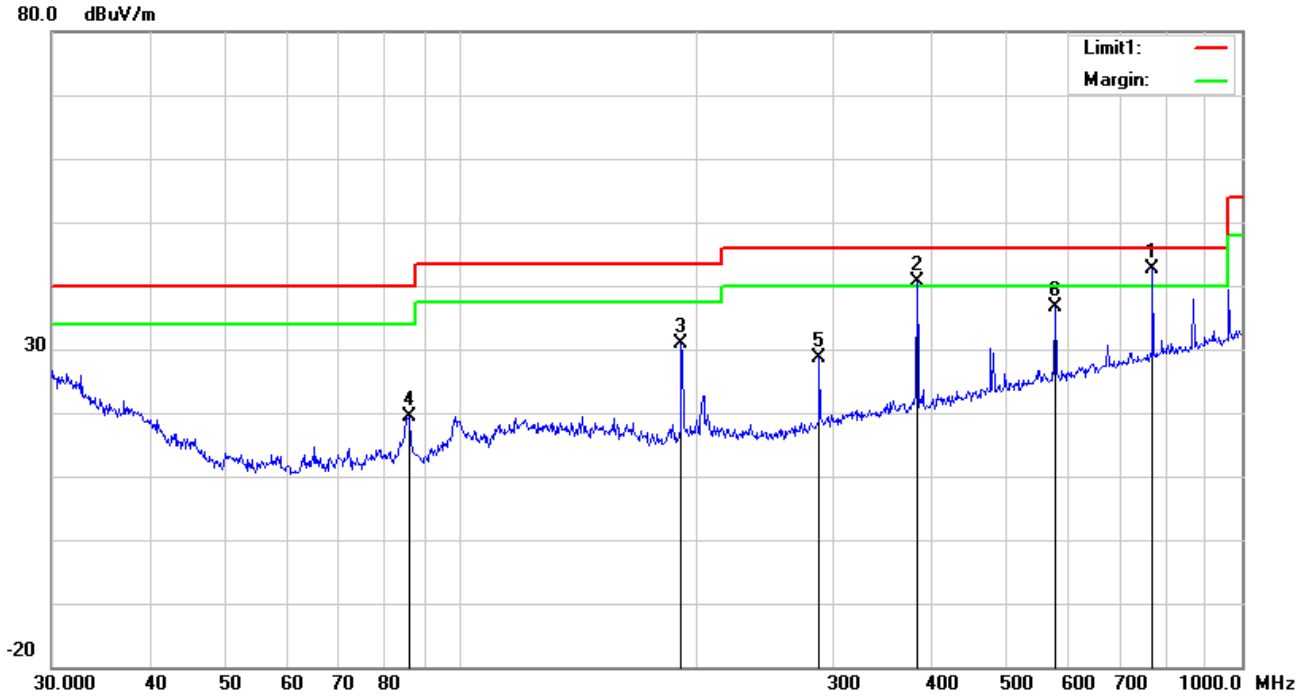
Test Mode:	Bluetooth Mode

30MHz -1GHz

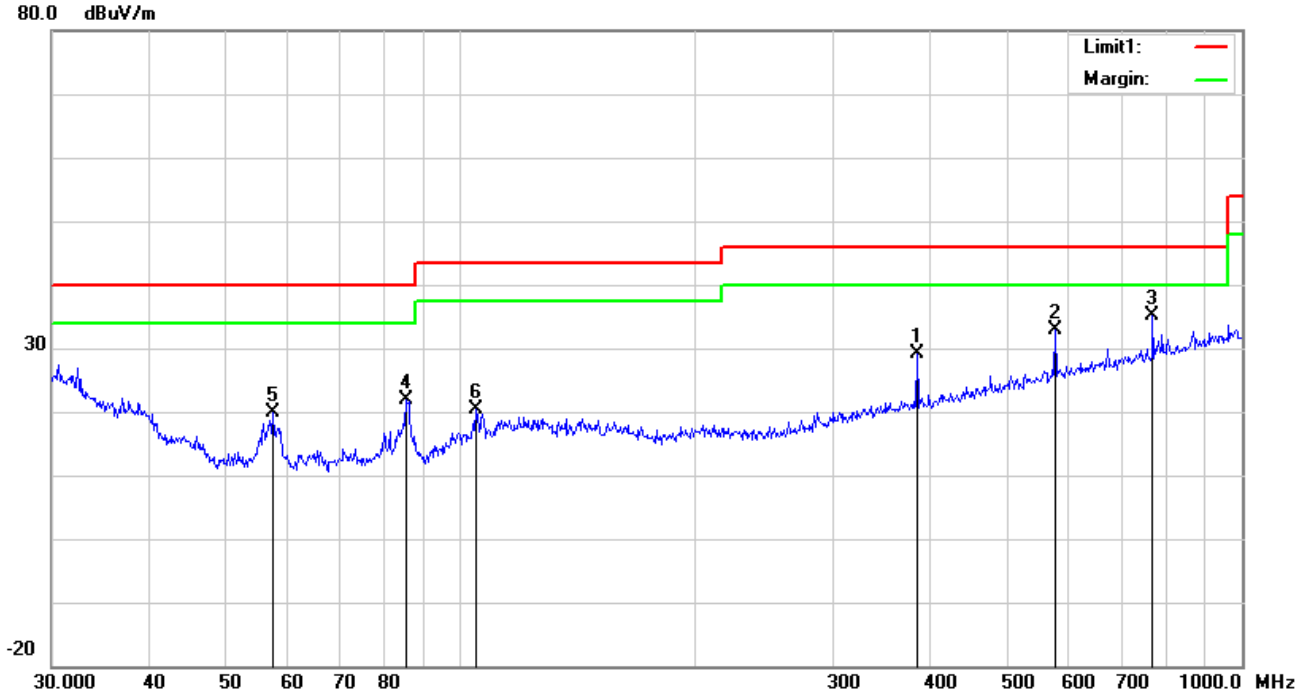


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	H	768.7482	39.96	peak	21.02	21.22	2.90	42.66	46.00	-3.34	100	354
2	H	383.9318	45.39	peak	15.36	22.05	2.02	40.72	46.00	-5.28	100	4
3	H	191.7450	40.07	peak	11.65	22.33	1.54	30.93	43.50	-12.57	100	85
4	H	85.8984	32.86	peak	7.84	22.36	1.05	19.39	40.00	-20.61	100	332
5	H	287.9904	36.10	peak	13.07	22.29	1.77	28.65	46.00	-17.35	100	126
6	H	576.6443	36.98	peak	18.77	21.63	2.49	36.61	46.00	-9.39	100	249

30MHz -1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	383.9318	33.84	peak	15.36	22.05	2.02	29.17	46.00	-16.83	100	25
2	V	576.6443	33.14	peak	18.77	21.63	2.49	32.77	46.00	-13.23	200	101
3	V	768.7482	32.54	peak	21.02	21.22	2.90	35.24	46.00	-10.76	100	205
4	V	85.2981	35.44	peak	7.81	22.37	1.06	21.94	40.00	-18.06	100	200
5	V	57.5939	33.87	peak	7.56	22.40	0.76	19.79	40.00	-20.21	100	151
6	V	104.5361	30.47	peak	11.19	22.33	1.14	20.47	43.50	-23.03	100	39

Above 1GHz

Test Mode:	Transmitting Mode

Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector	Polarity
(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(PK/AV)	(H/V)
Low Channel:GFSK Mode(Worst Case)-2402MHz									
2390	38.59	28.72	3.36	26.32	44.35	74	-29.65	peak	Vertical
4804	27.83	32.94	3.98	27.49	37.26	54	-16.74	Average	Vertical
4804	37.79	32.94	3.98	27.49	47.22	74	-26.78	peak	Vertical
7206	31.56	25.28	5.51	27.94	34.41	54	-19.59	Average	Vertical
7206	40.68	25.28	5.51	27.94	43.53	74	-30.47	peak	Vertical
2390	39.28	28.72	3.36	26.32	45.04	74	-28.96	peak	Horizontal
4804	30.08	32.94	3.98	27.49	39.51	54	-14.49	Average	Horizontal
4804	40.62	32.94	3.98	27.49	50.05	74	-23.95	peak	Horizontal
7206	31.19	25.28	5.51	27.94	34.04	54	-19.96	Average	Horizontal
7206	42.26	25.28	5.51	27.94	45.11	74	-28.89	peak	Horizontal
Middle Channel:GFSK Mode(Worst Case)-2441MHz									
4882	30.17	32.11	4.04	27.53	38.79	54	-15.21	Average	Vertical
4882	38.42	32.11	4.04	27.53	47.04	74	-26.96	peak	Vertical
7323	29.64	24.33	5.58	27.96	31.59	54	-22.41	Average	Vertical
7323	40.33	24.33	5.58	27.96	42.28	74	-31.72	peak	Vertical
4882	30.47	32.11	4.04	27.53	39.09	54	-14.91	Average	Horizontal
4882	40.56	32.11	4.04	27.53	49.18	74	-24.82	peak	Horizontal
7323	34.71	24.33	5.58	27.96	36.66	54	-17.34	Average	Horizontal
7323	40.54	24.33	5.58	27.96	42.49	74	-31.51	peak	Horizontal
High Channel:GFSK Mode(Worst Case)-2480MHz									
2483.5	37.92	28.79	3.48	26.34	43.85	74	-30.15	peak	Vertical
4960	29.52	31.32	4.12	27.58	37.38	54	-16.62	Average	Vertical
4960	38.73	31.32	4.12	27.58	46.59	74	-27.41	peak	Vertical
7440	29.48	24.38	5.68	27.99	31.55	54	-22.45	Average	Vertical
7440	40.36	24.38	5.68	27.99	42.43	74	-31.57	peak	Vertical
2483.5	39.79	28.79	3.48	26.34	45.72	74	-28.28	peak	Horizontal
4960	29.83	31.32	4.12	27.58	37.69	54	-16.31	Average	Horizontal
4960	40.85	31.32	4.12	27.58	48.71	74	-25.29	peak	Horizontal
7440	33.26	24.38	5.68	27.99	35.33	54	-18.67	Average	Horizontal

Note:

*1, The testing has been conformed to 10*2480MHz=24,800MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	☑
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	☑
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	☑
ISN	ISN T800	34373	09/23/2017	09/22/2018	☐
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	☐
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	☑
Power Splitter	1#	1#	08/30/2017	08/29/2018	☑
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	☑
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	☑
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	☑
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	☑
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	☑
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	☑
Active Antenna (9kHz-30MHz)	AL-130	121031	10/12/2017	10/11/2018	☑
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	☑
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	☑

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

EUT - Front View

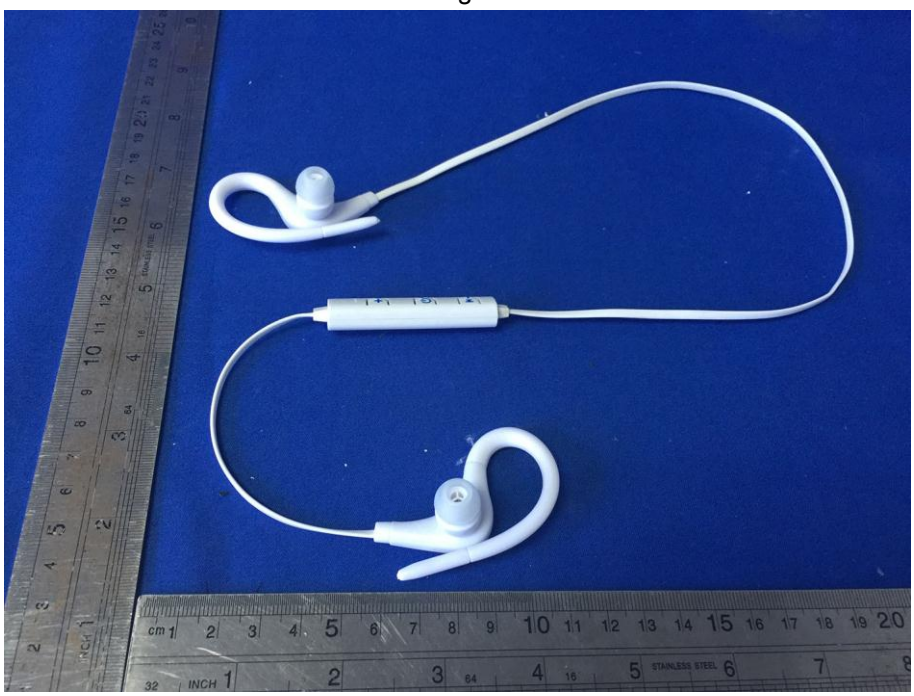
EUT - Rear View

EUT - Top View

EUT - Bottom View

EUT - Left View

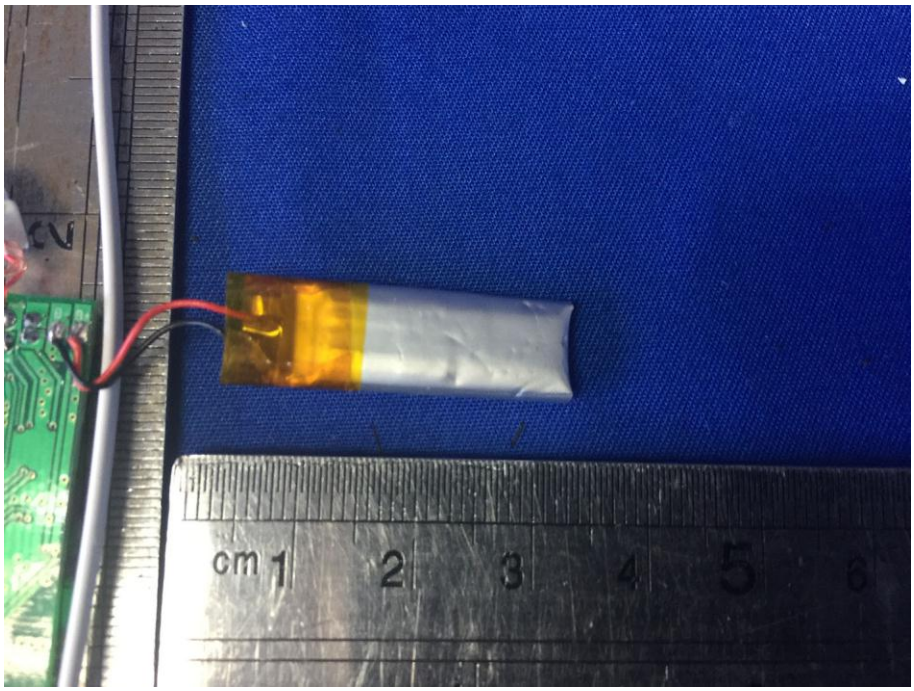
EUT - Right View



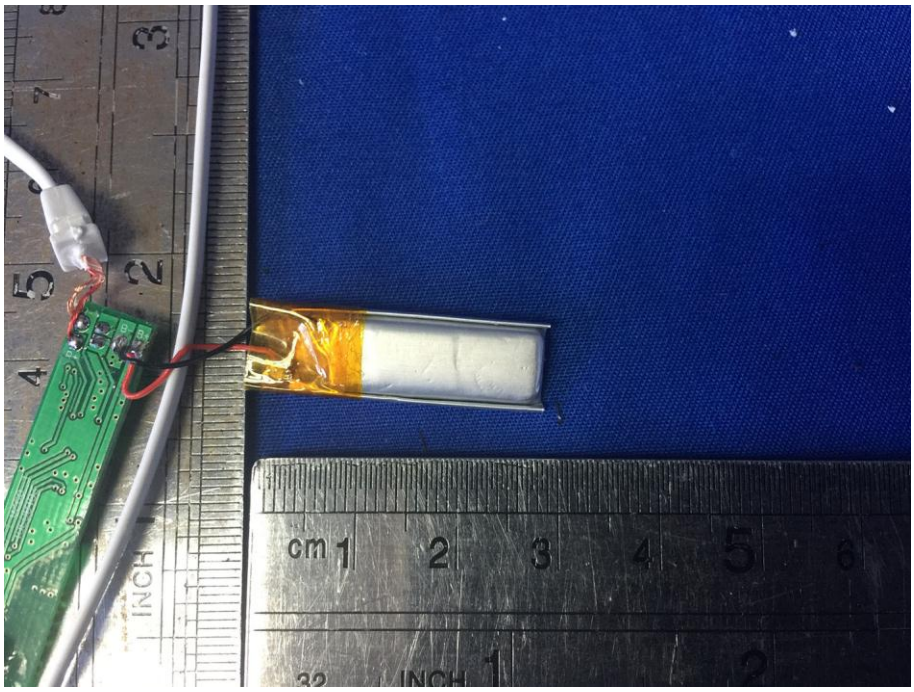
Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View

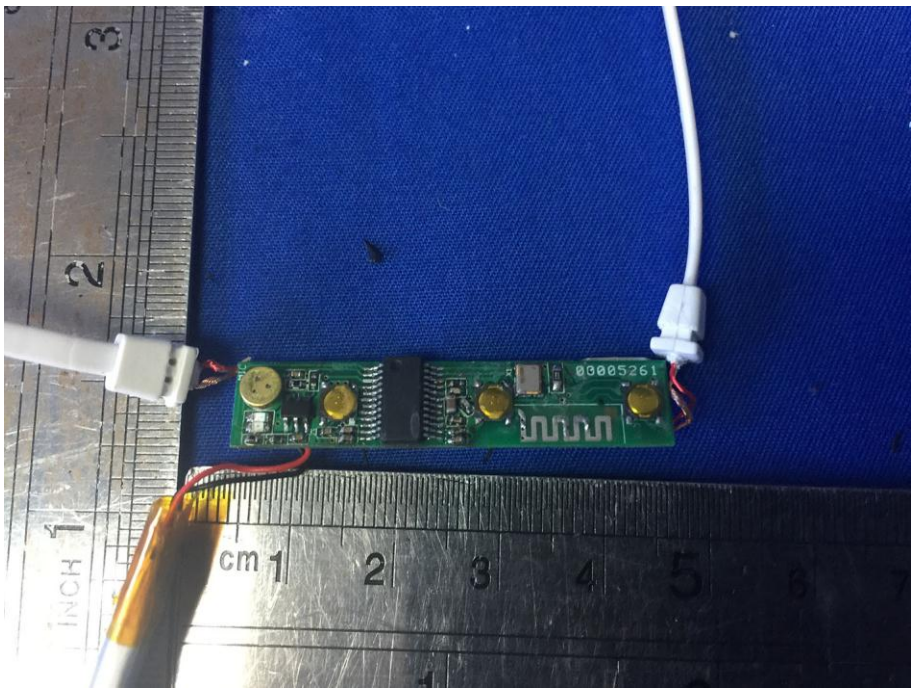
Battery - Front View



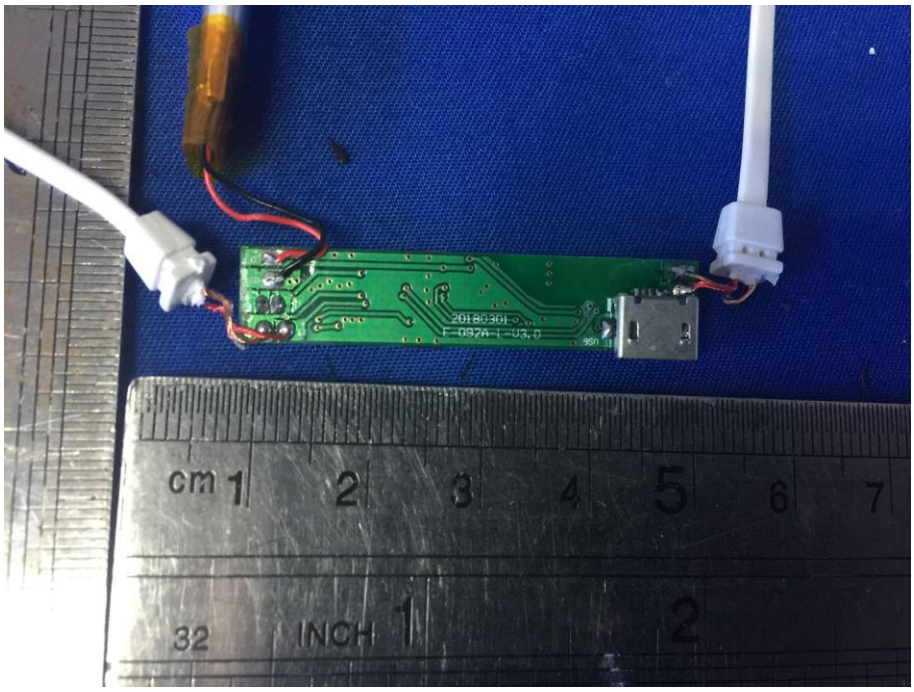
Battery - Rear View



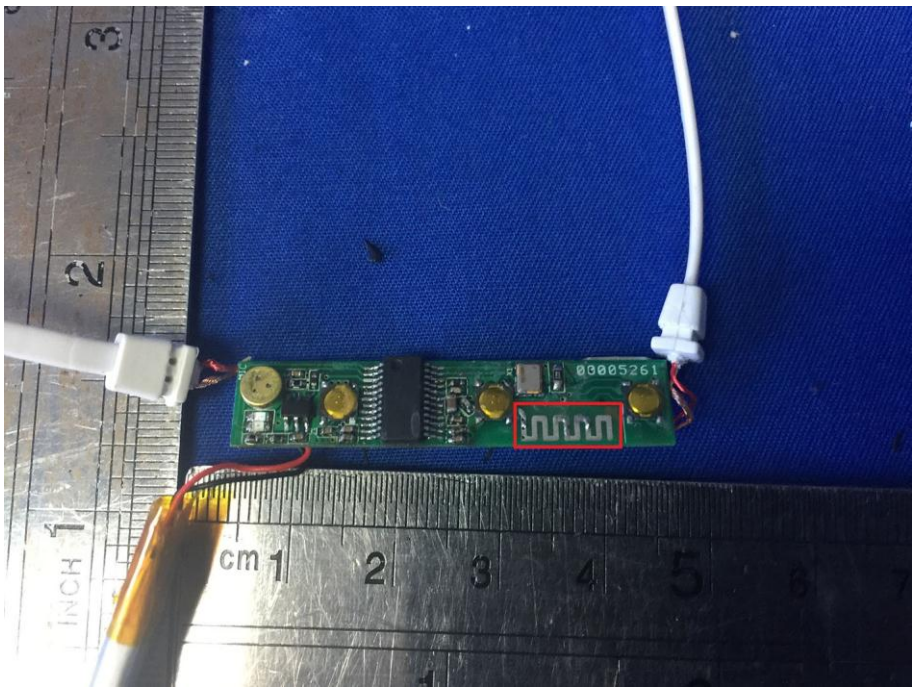
Mainboard - Front View



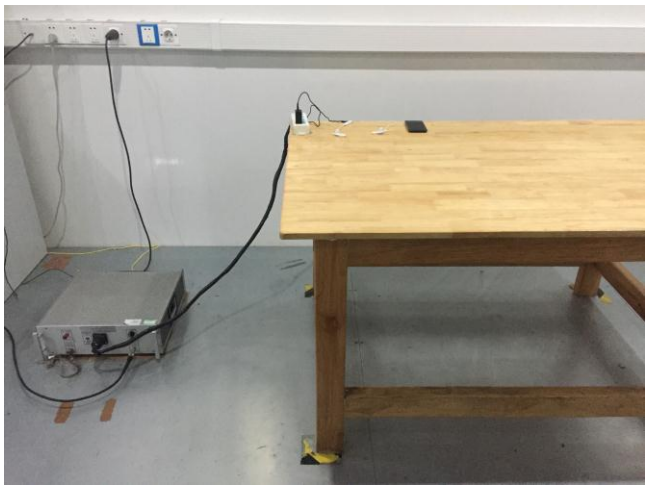
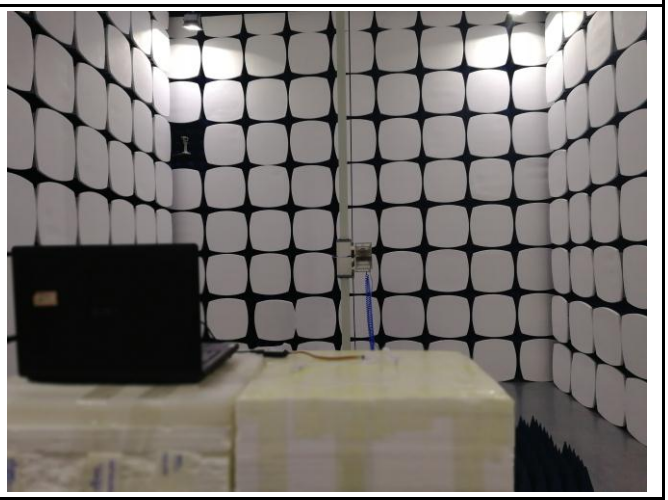
Mainboard – Rear View



BT - Antenna View



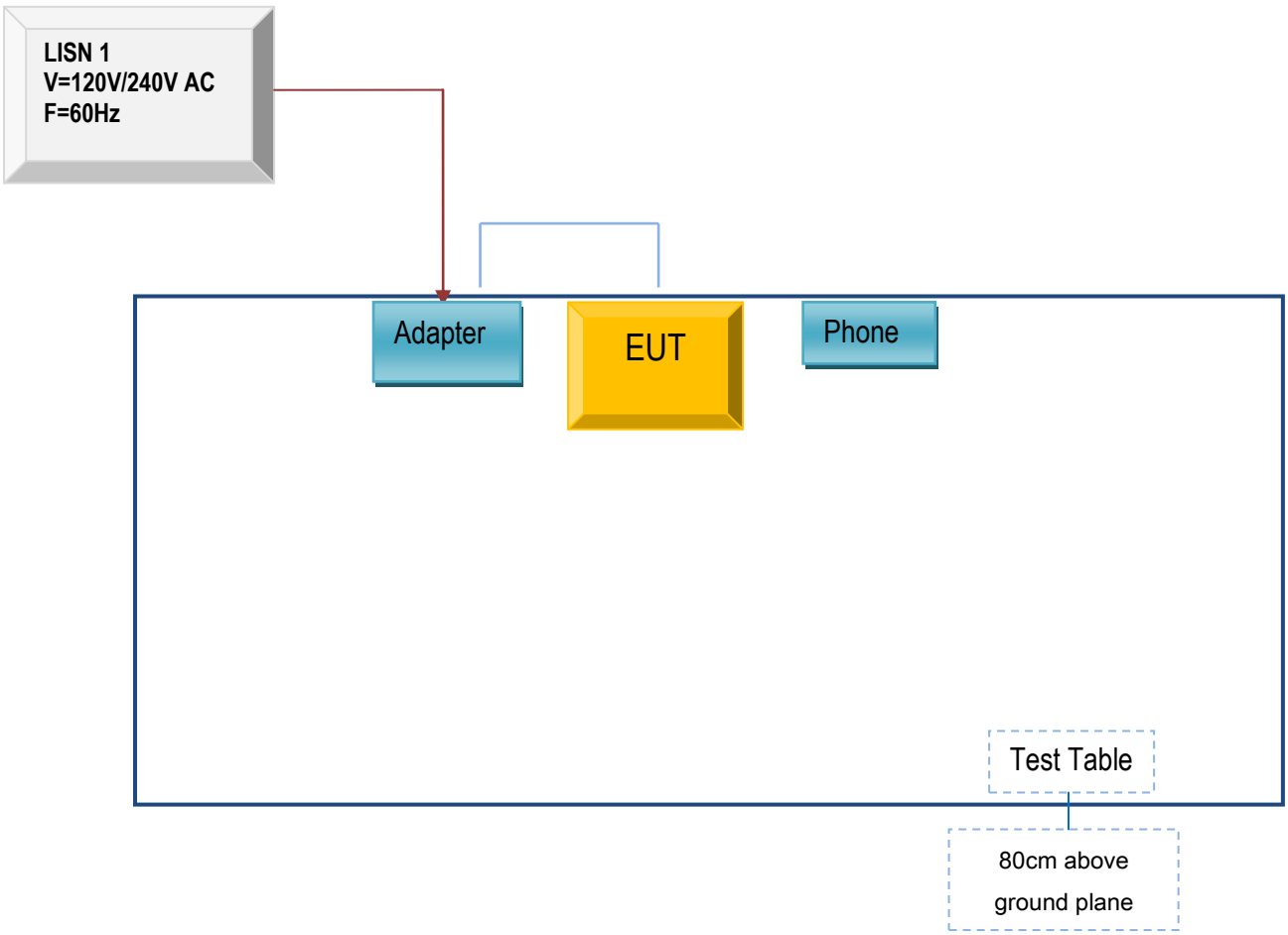
Annex B.iii. Photograph: Test Setup Photo

	
Conducted Emissions Test Setup Front View	Conducted Emissions Test Setup Side View
	
Radiated Spurious Emissions Test Setup Below 1GHz	Radiated Spurious Emissions Test Setup Above 1GHz

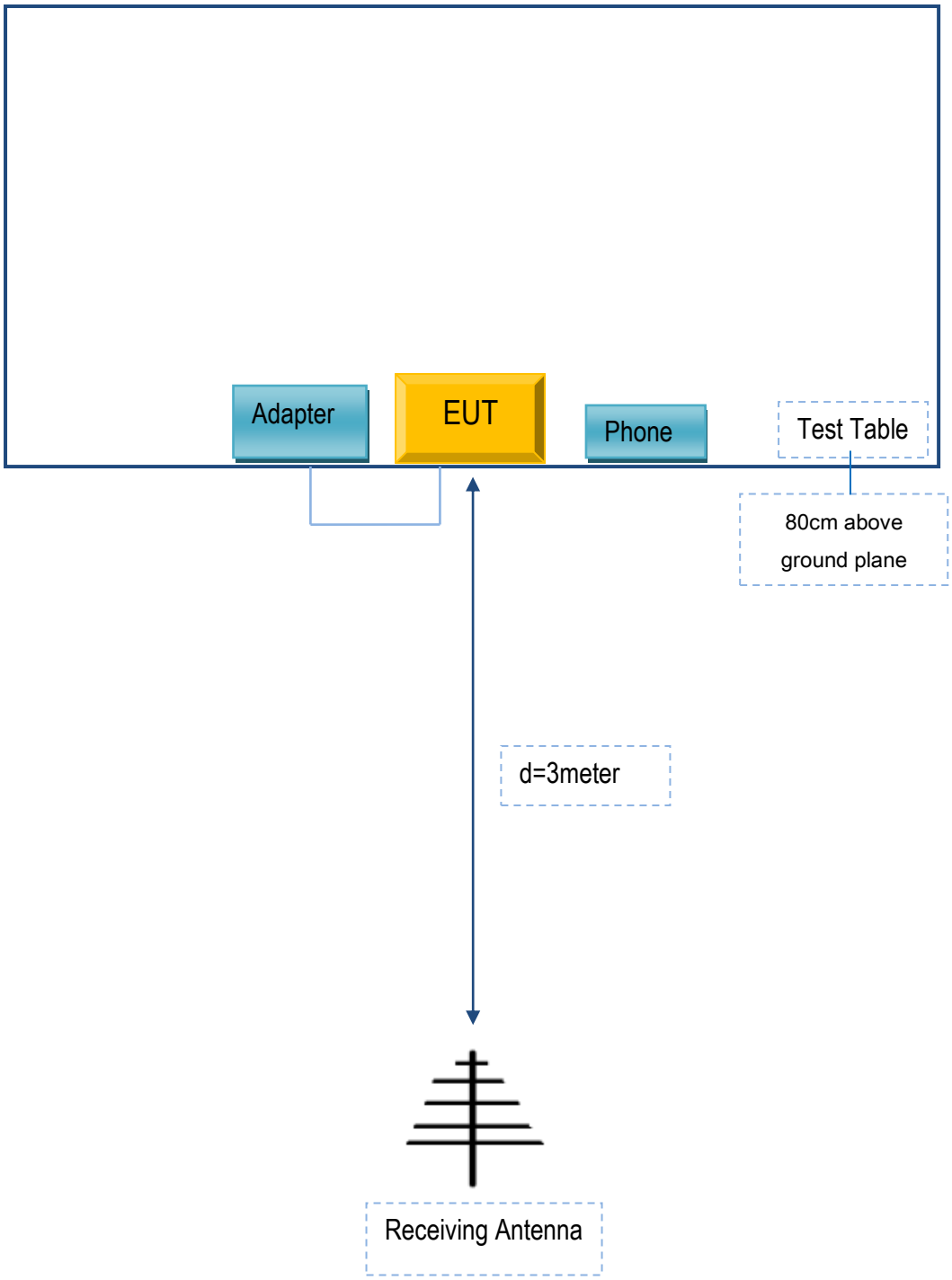
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

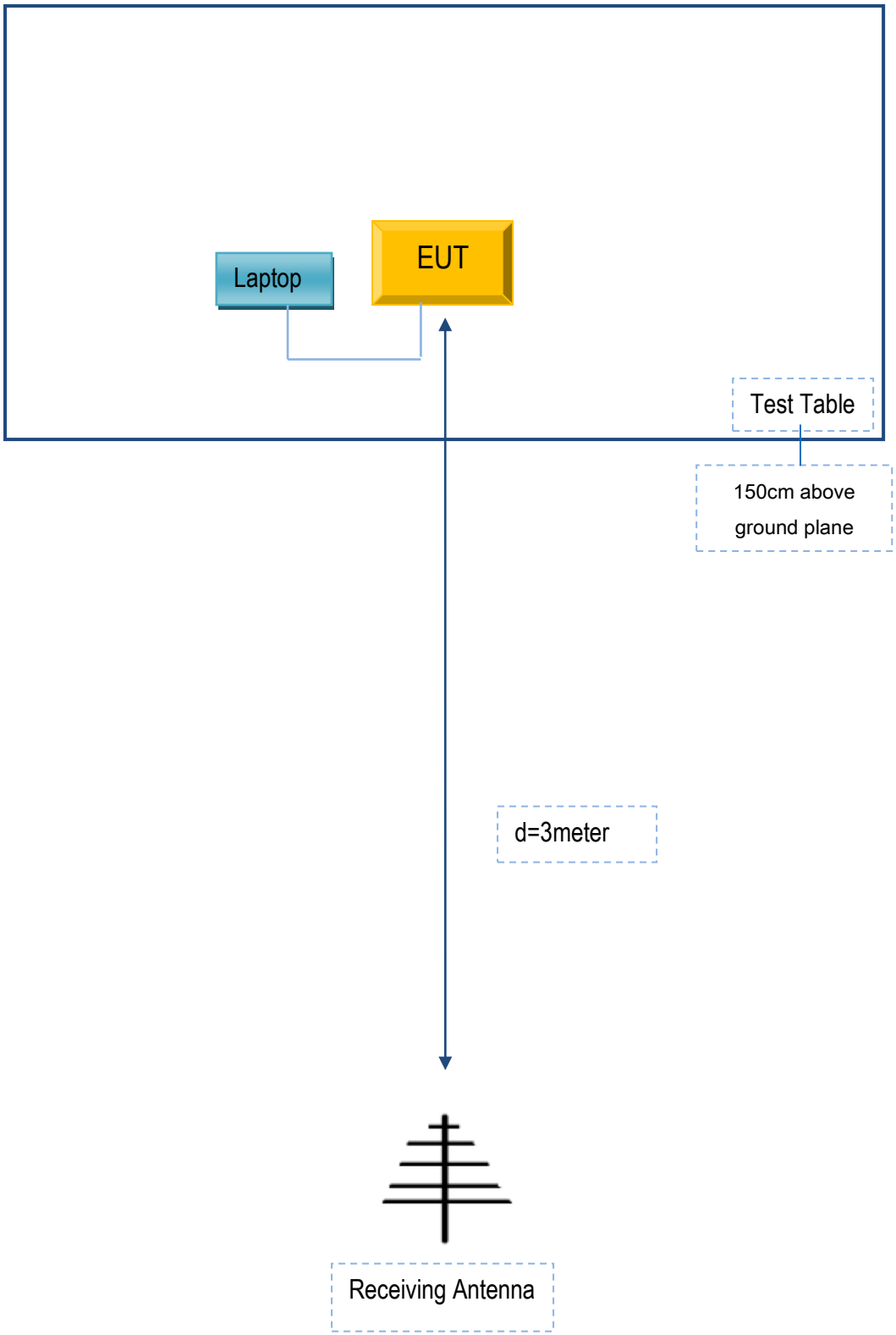
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions （Below 1GHz）.



Block Configuration Diagram for Radiated Emissions （Above 1GHz）.



Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	thinkpad e40	N/A
MerryKing	Adapter	MKS-0501000	N/A
MEIZU	Phone	Y685Q	Y15QFBP922VGM

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
N/A	N/A	N/A	N/A	N/A

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

Shenzhen Zhanzhuo Electronic Technology Co., Ltd

Model Difference

Date:2018-03-28

FCC ID: 2AO9S-E-092-L

Product name: Bluetooth earphone
Model : E-092-L
E-124-L, E-125-L, E-019-L, E-087-L, E-096-L

All models have same circuits diagram, PCB Layout, construction and rated power, only different is the model name.

Regards

Sincerely

Client's signature

Sunny Xia

Client's name / title : Sunny Xia / Manager
Contact information / address: 3/F&4/F, Building D,YLT Science Park,No.162 Luyuan Road, Keyuancheng, Tangxia Town, Dongguan City, Guangdong, China