FCC Test Report

Report No.: AGC03293171101FE03

FCC ID	:	2AF9P-SUDIOTWS
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	True Wireless Earphones
BRAND NAME	:	Sudio
MODEL NAME	:	See Page 4
CLIENT	:	Sudio AB
DATE OF ISSUE	:	Jan. 11, 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

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 11, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY 4

2. GENERAL INFORMATION 5

2.1. PRODUCT DESCRIPTION 5
2.2. TABLE OF CARRIER FREQUENCYS 5

3. MEASUREMENT UNCERTAINTY 6

4. DESCRIPTION OF TEST MODES 6

5. SYSTEM TEST CONFIGURATION 8

5.1. CONFIGURATION OF EUT SYSTEM 8
5.2. EQUIPMENT USED IN EUT SYSTEM 8
5.3. SUMMARY OF TEST RESULTS 9

6. TEST FACILITY 10

7.TEST METHOD 11

8. TEST EQUIPMENT LIST 11

9. RADIATED EMISSION 12

9.1TEST LIMIT 12
9.2. MEASUREMENT PROCEDURE 13
9.3. TEST SETUP 15
9.4. TEST RESULT 17

10. BAND EDGE EMISSION 32

10.1. MEASUREMENT PROCEDURE 32
10.2 TEST SETUP 32
10.3 RADIATED TEST RESULT 33

11. 20DB BANDWIDTH 37

11.1. MEASUREMENT PROCEDURE 37
11.2. TEST SET-UP 37
11.3. LIMITS AND MEASUREMENT RESULTS 37

12. FCC LINE CONDUCTED EMISSION TEST 44

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST 44
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 44
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 45
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 45
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST 45

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 46

APPENDIX B: PHOTOGRAPHS OF EUT 48

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1. VERIFICATION OF CONFORMITY

Applicant	Sudio AB
Address	Grev Turegatan 35, 11438, Stockholm, Sweden
Manufacturer	Cirque-audio Technology Co., Ltd.
Address	No. 2, Road Beiyiheng, Huangjiabao Industrial Park, Shipai Town, Dongguan City, Guangdong Province, China 523347
Product Designation	True Wireless Earphones
Brand Name	Sudio
Test Model	Nivå
Series Model	Sudio Nivå black, Sudio Nivå white, Sudio Nivå camouflage
Difference description	All the same except for the appearance color.
Date of test	Jan. 04, 2018 to Jan. 10, 2018
Deviation	None
Condition of Test Sample	Normal
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.

Tested By Henry Zhang

Henry Zhang(Zhang Zhuorui) Jan. 10, 2018

Reviewed By Forrest Lei

Forrest Lei(Lei Yonggang) Jan. 11, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-2.32dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ☒GFSK, EDR ☒π /4-DQPSK, ☒8DPSK BLE ☐GFSK
Number of channels	79 for BR/EDR
Hardware Version	ES2
Software Version	V0.3
Antenna Designation	Fixed Antenna
Antenna Gain	1.4dBi
Power Supply	DC 3.7V by battery

Note: 1. The BT function of EUT didn't work when charging.
2. The EUT comprises left and right channel earphone, both are the same and have been tested. Only the test data of left earphone recorded in this report.
3. The EUT isn't support BLE.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402MHz
	1	2403MHz
	:	:
	38	2440 MHz
	39	2441 MHz
	40	2442 MHz
	:	:
	77	2479 MHz
	78	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
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

Note:
1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3.The EUT used fully-charged battery when tested.

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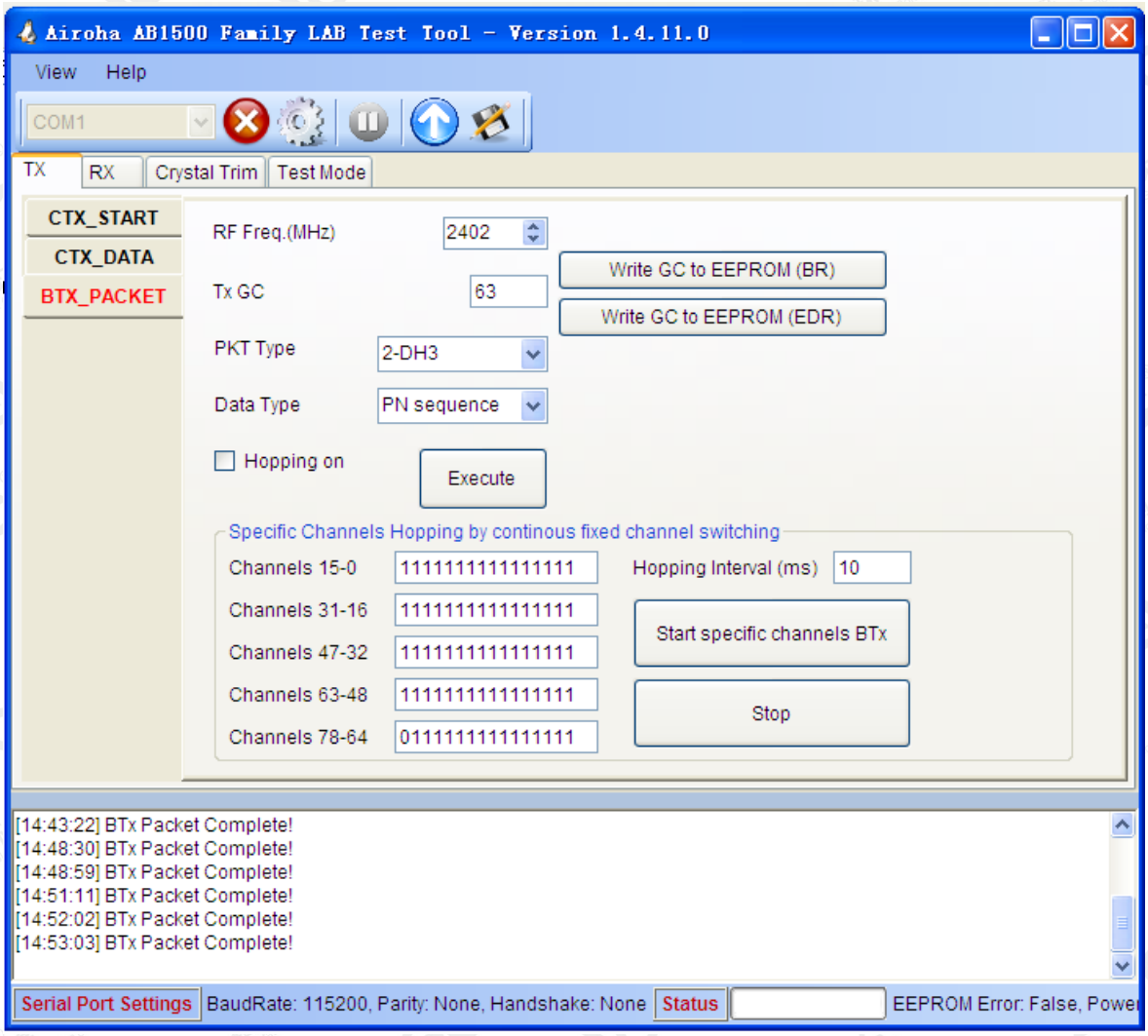
Software Setting



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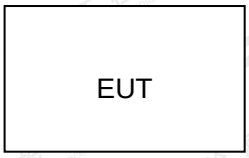
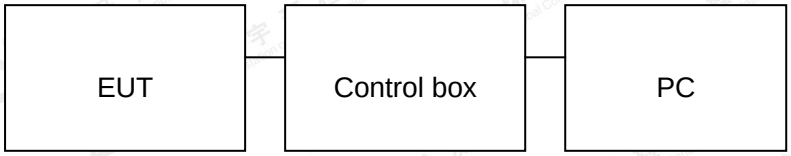
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	True Wireless Earphones	Sudio	Nivå	EUT
2	Battery	VDL	601115	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	AIROHA	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E

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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	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

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6. TEST FACILITY

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
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	--	Mar. 01, 2016	Feb. 28, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (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 (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark: (1) Emission level dBμ 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)
3. 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	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ 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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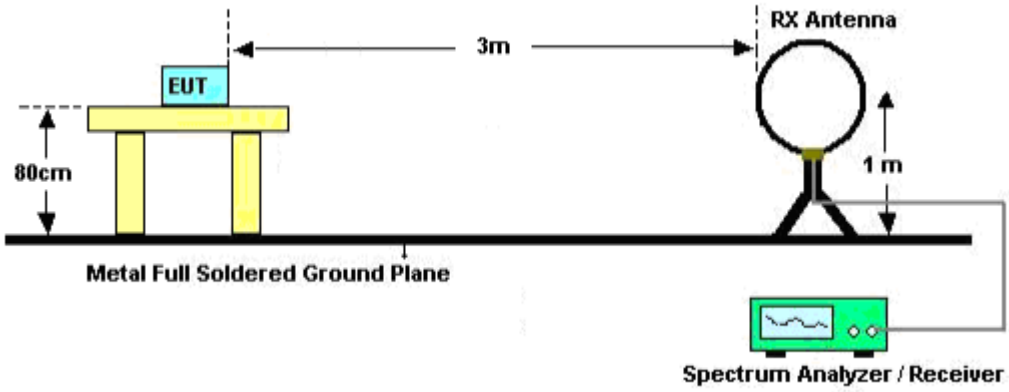
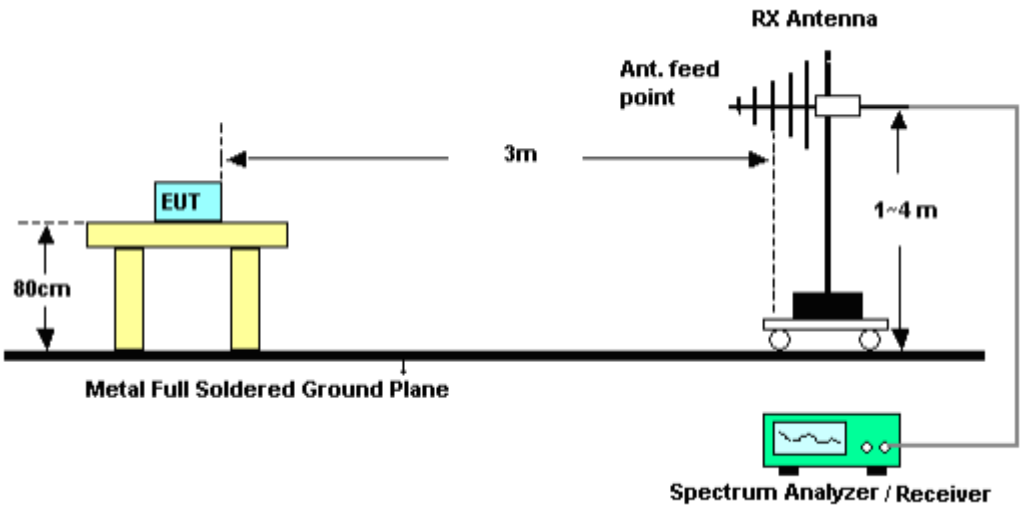
9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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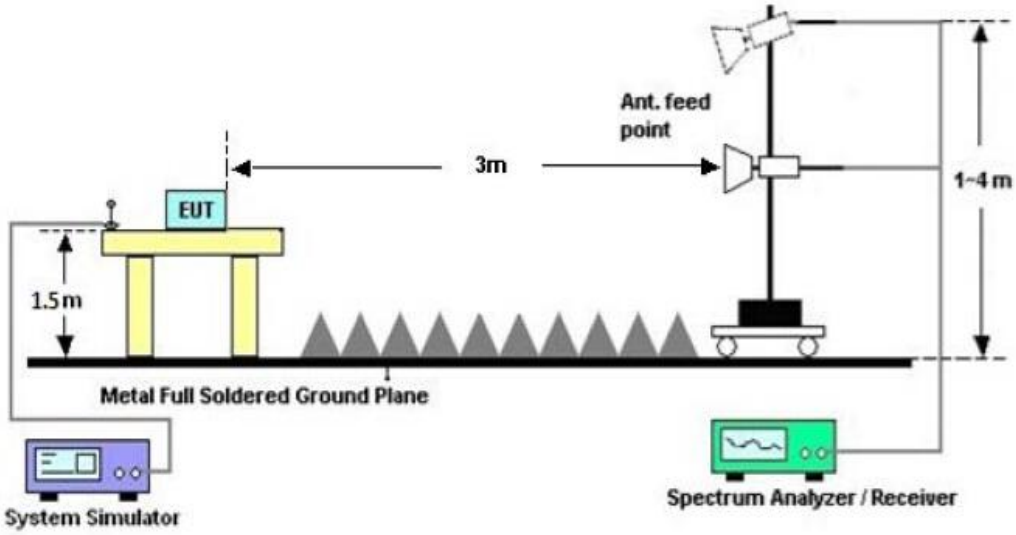
RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

(Worst modulation: GFSK)

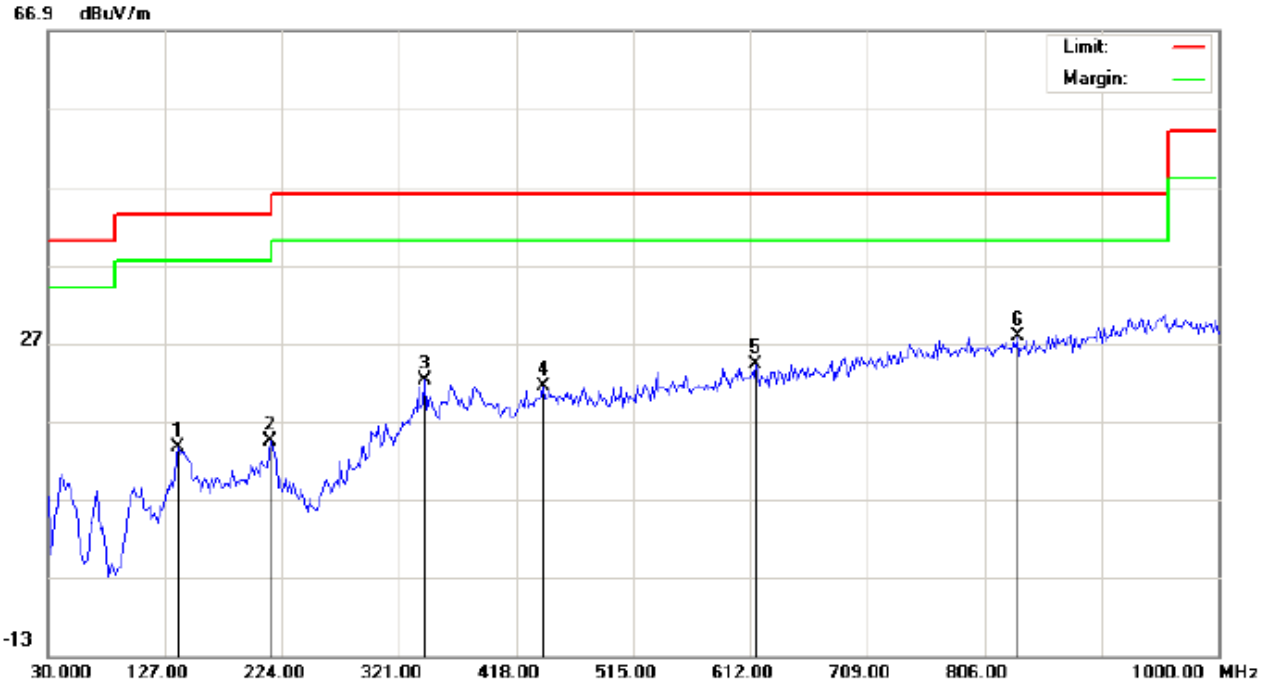
FOR BR/EDR

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	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		138.3167	-0.85	14.41	13.56	43.50	-29.94	peak			
2		214.3000	3.93	10.54	14.47	43.50	-29.03	peak			
3		342.0167	3.92	18.21	22.13	46.00	-23.87	peak			
4		440.6333	1.11	20.31	21.42	46.00	-24.58	peak			
5		616.8500	0.47	23.77	24.24	46.00	-21.76	peak			
6	*	833.4833	0.56	27.31	27.87	46.00	-18.13	peak			

RESULT: PASS

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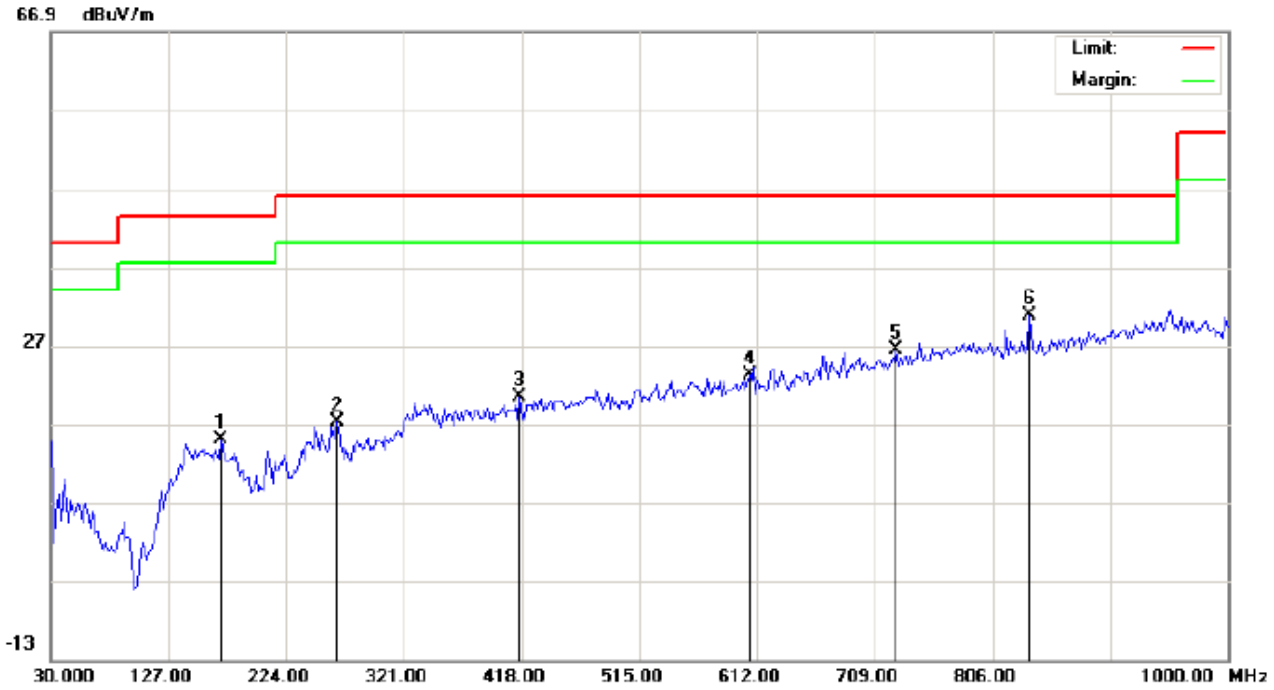
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		170.6500	0.28	14.66	14.94	43.50	-28.56	peak			
2		266.0333	2.83	14.38	17.21	46.00	-28.79	peak			
3		416.3833	0.74	19.57	20.31	46.00	-25.69	peak			
4		605.5333	0.28	22.85	23.13	46.00	-22.87	peak			
5		726.7833	0.37	25.96	26.33	46.00	-19.67	peak			
6	*	836.7167	3.40	27.31	30.71	46.00	-15.29	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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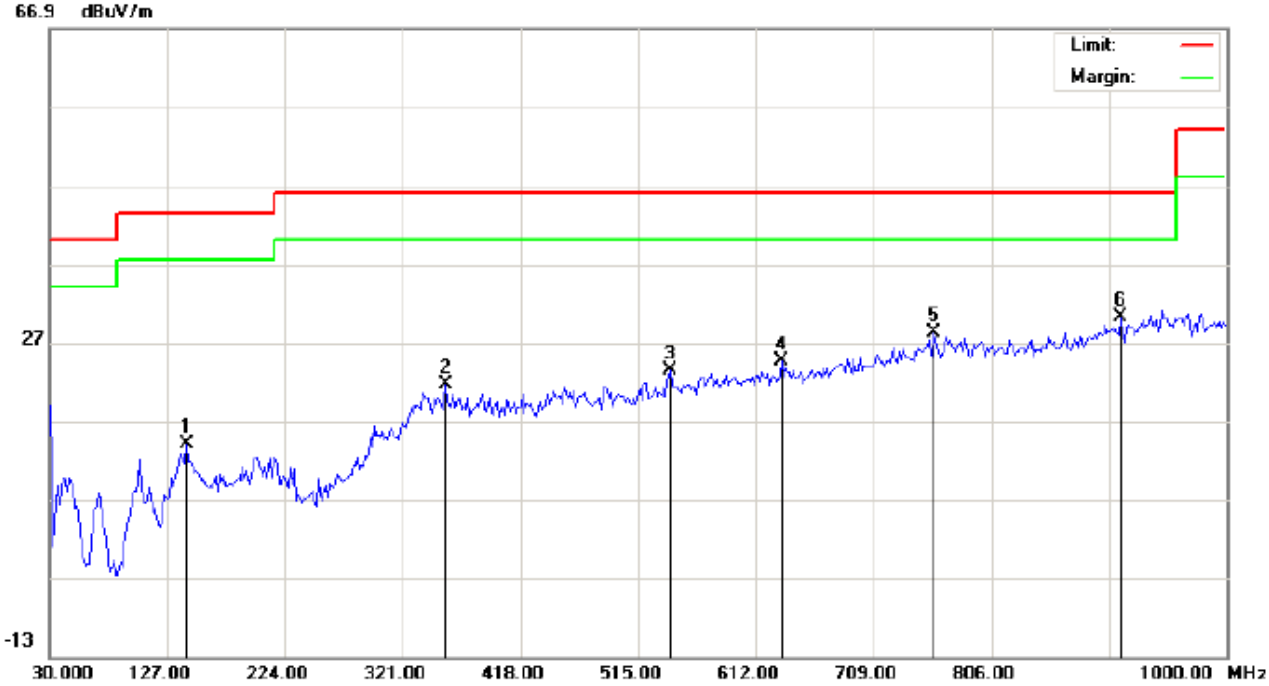
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		143.1667	-0.38	14.43	14.05	43.50	-29.45	peak			
2		356.5667	2.84	18.78	21.62	46.00	-24.38	peak			
3		540.8667	1.17	22.23	23.40	46.00	-22.60	peak			
4		633.0167	0.75	23.81	24.56	46.00	-21.44	peak			
5		759.1167	1.46	26.76	28.22	46.00	-17.78	peak			
6	*	912.7000	1.32	28.96	30.28	46.00	-15.72	peak			

RESULT: PASS

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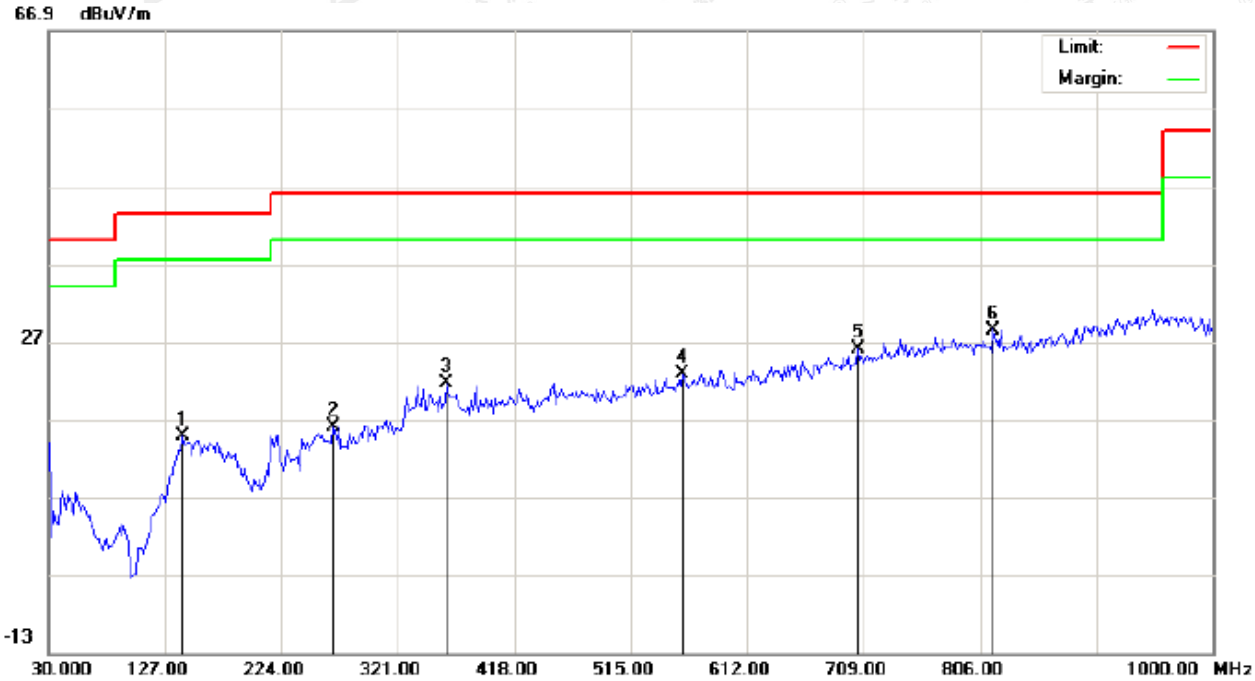
RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		141.5500	-0.32	15.21	14.89	43.50	-28.61	peak			
2		267.6500	1.61	14.43	16.04	46.00	-29.96	peak			
3		361.4166	2.82	18.82	21.64	46.00	-24.36	peak			
4		558.6500	0.26	22.52	22.78	46.00	-23.22	peak			
5		704.1500	0.76	25.31	26.07	46.00	-19.93	peak			
6	*	817.3167	1.18	27.32	28.50	46.00	-17.50	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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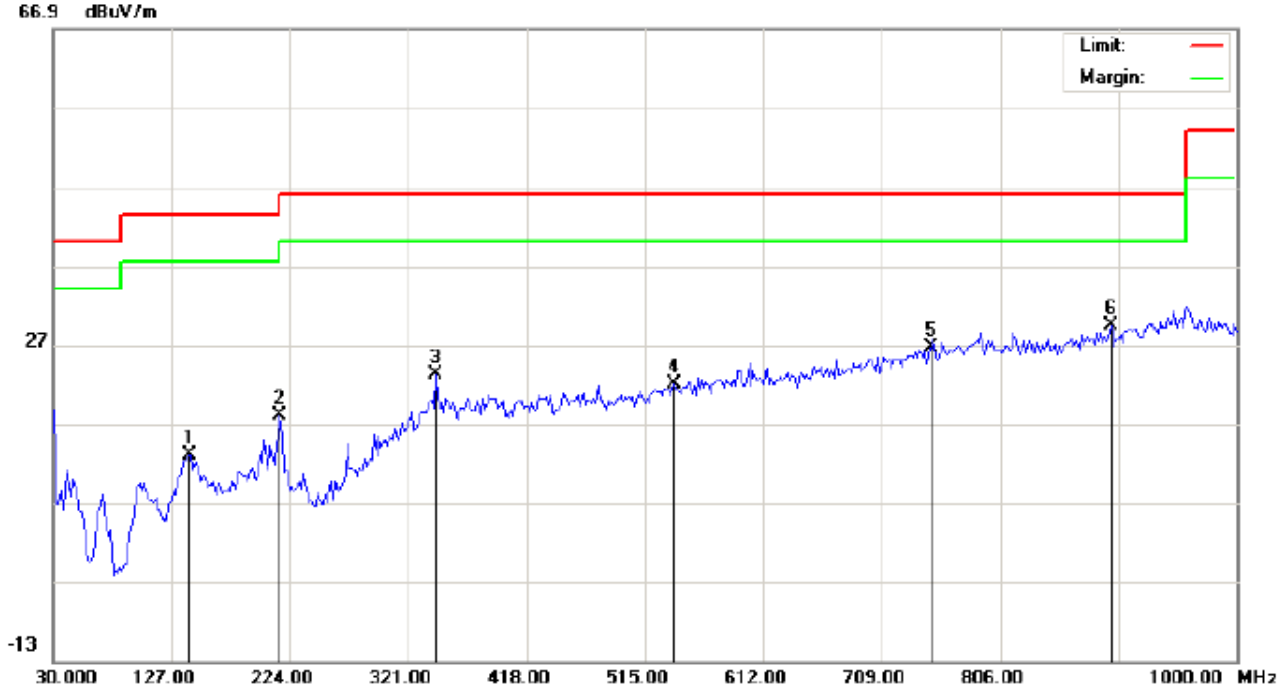
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		141.5500	-1.75	14.82	13.07	43.50	-30.43	peak			
2		215.9167	7.71	10.38	18.09	43.50	-25.41	peak			
3		343.6333	4.88	18.32	23.20	46.00	-22.80	peak			
4		539.2500	-0.15	22.19	22.04	46.00	-23.96	peak			
5		749.4167	0.02	26.61	26.63	46.00	-19.37	peak			
6	*	896.5333	0.92	28.52	29.44	46.00	-16.56	peak			

RESULT: PASS

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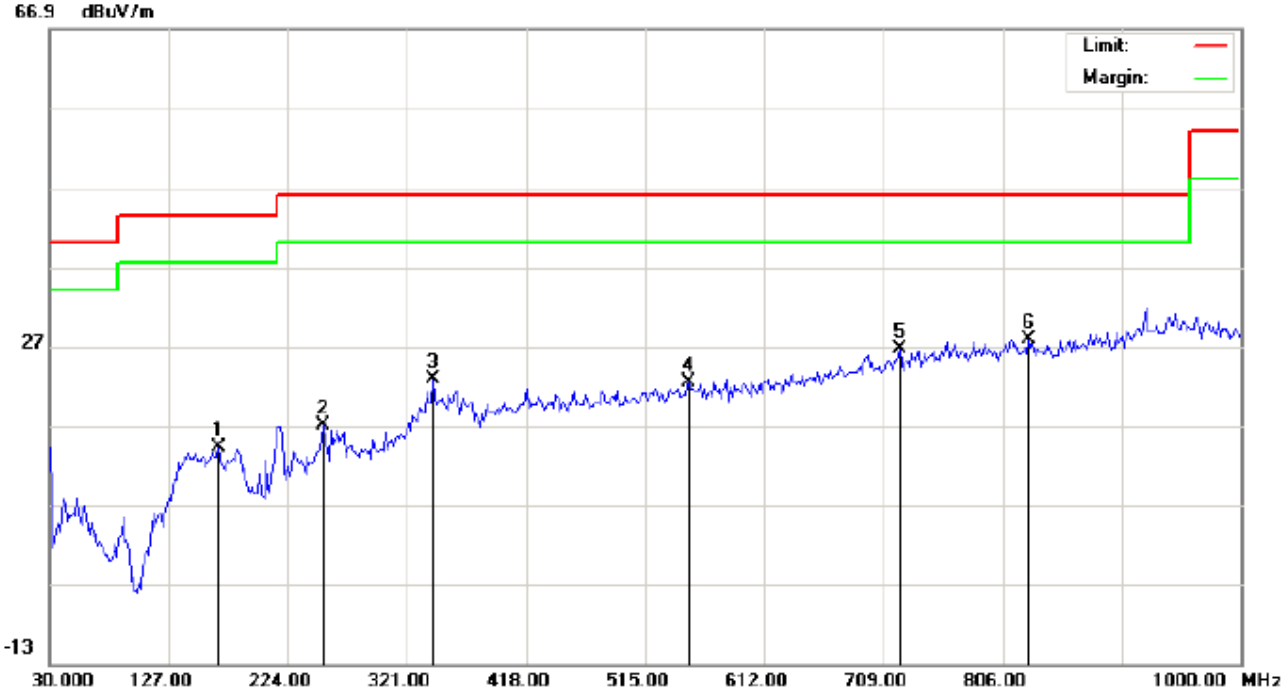
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		167.4167	-0.69	14.86	14.17	43.50	-29.33	peak			
2		253.1000	3.02	13.99	17.01	46.00	-28.99	peak			
3		342.0167	4.61	18.21	22.82	46.00	-23.18	peak			
4		550.5667	-0.04	22.48	22.44	46.00	-23.56	peak			
5		721.9333	0.72	25.82	26.54	46.00	-19.46	peak			
6	*	827.0167	0.54	27.31	27.85	46.00	-18.15	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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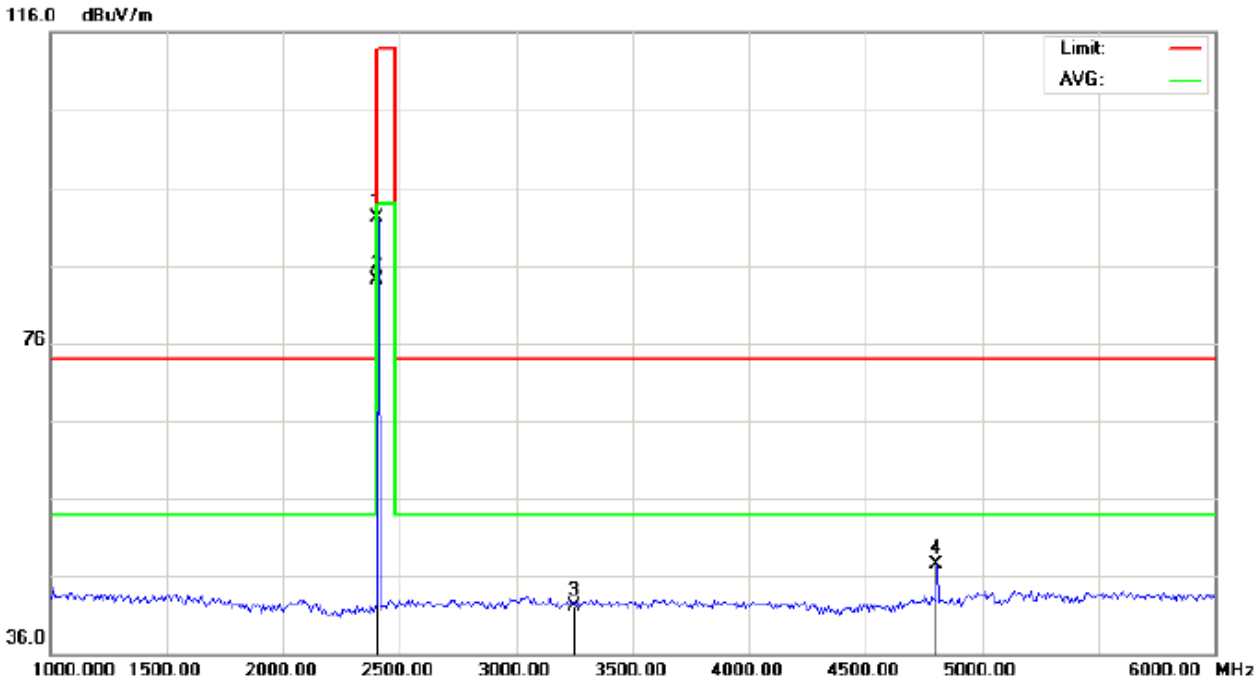
RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

FOR BR/EDR

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	81.71	10.32	92.03	114.00	-21.97	peak			
2	*	2402.000	73.84	10.32	84.16	94.00	-9.84	AVG	100	40	
3		3251.000	30.22	11.88	42.10	74.00	-31.90	peak			
4		4804.000	39.74	7.69	47.43	74.00	-26.57	peak			

RESULT: PASS

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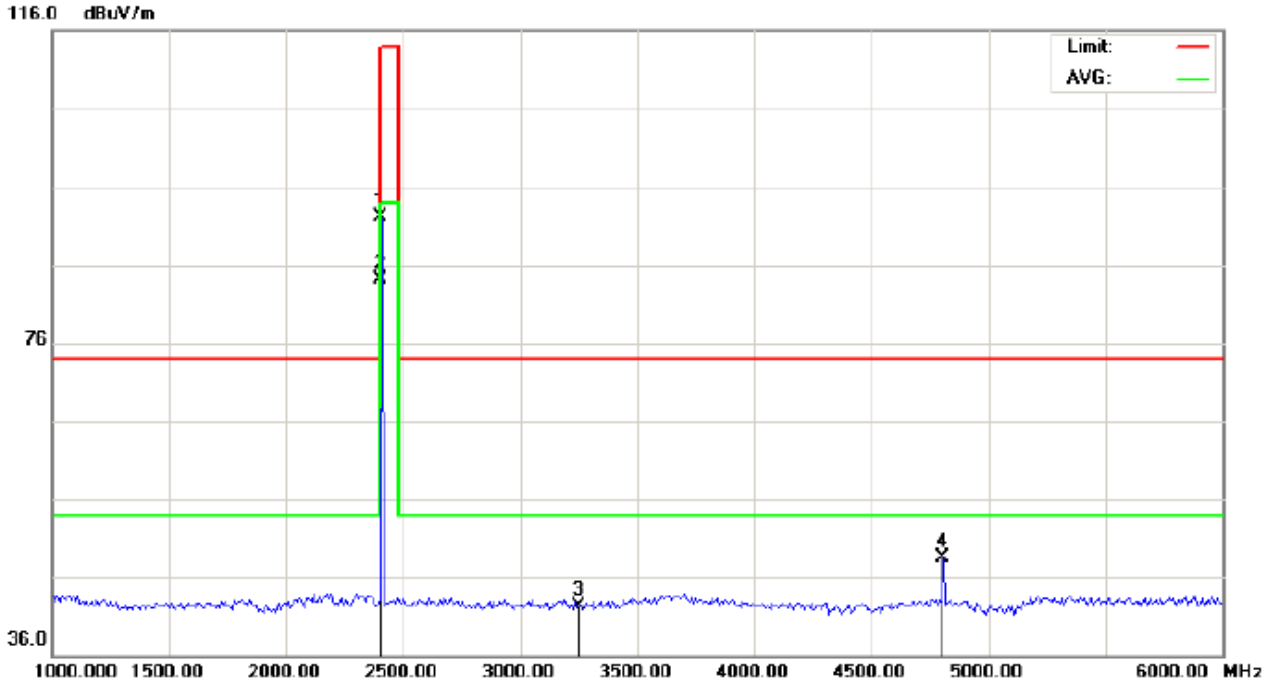
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	81.69	10.32	92.01	114.00	-21.99	peak			
2	*	2402.000	73.70	10.32	84.02	94.00	-9.98	AVG	100	56	
3		3251.000	30.40	11.88	42.28	74.00	-31.72	peak			
4		4804.000	40.88	7.69	48.57	74.00	-25.43	peak			

RESULT: PASS

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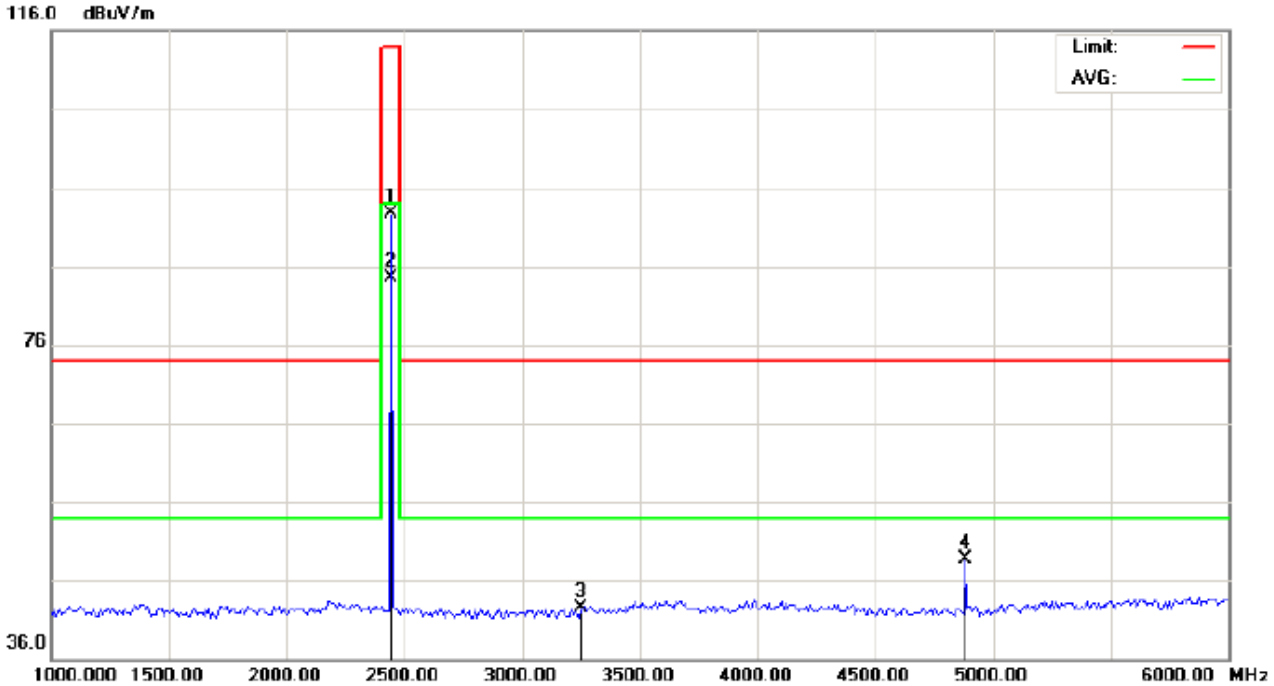
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	82.25	10.36	92.61	114.00	-21.39	peak			
2	*	2441.000	74.21	10.36	84.57	94.00	-9.43	AVG	100	39	
3		3251.000	30.57	11.88	42.45	74.00	-31.55	peak			
4		4882.000	40.88	7.89	48.77	74.00	-25.23	peak			

RESULT: PASS

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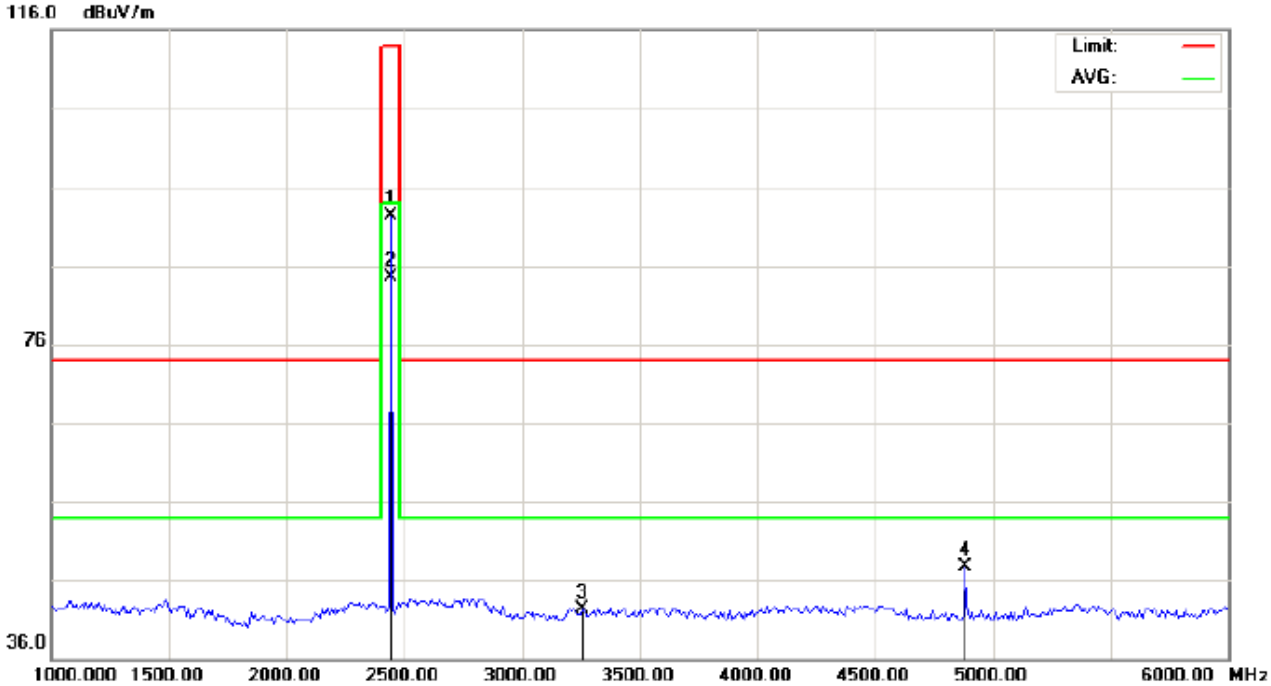
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	81.99	10.36	92.35	114.00	-21.65	peak			
2	*	2441.000	74.06	10.36	84.42	94.00	-9.58	AVG	100	55	
3		3256.000	30.39	11.88	42.27	74.00	-31.73	peak			
4		4882.000	39.81	7.89	47.70	74.00	-26.30	peak			

RESULT: PASS

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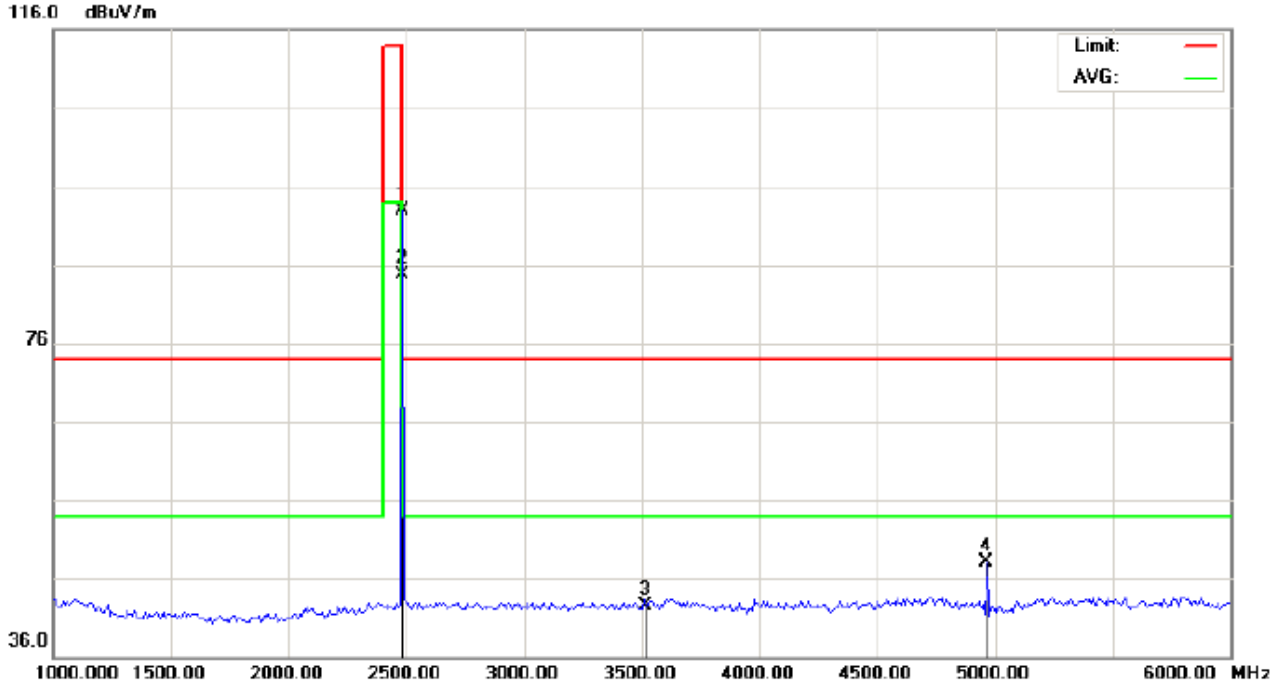
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	82.47	10.41	92.88	114.00	-21.12	peak			
2	*	2480.000	74.28	10.41	84.69	94.00	-9.31	AVG	100	40	
3		3516.000	30.29	12.21	42.50	74.00	-31.50	peak			
4		4960.000	40.01	8.09	48.10	74.00	-25.90	peak			

RESULT: PASS

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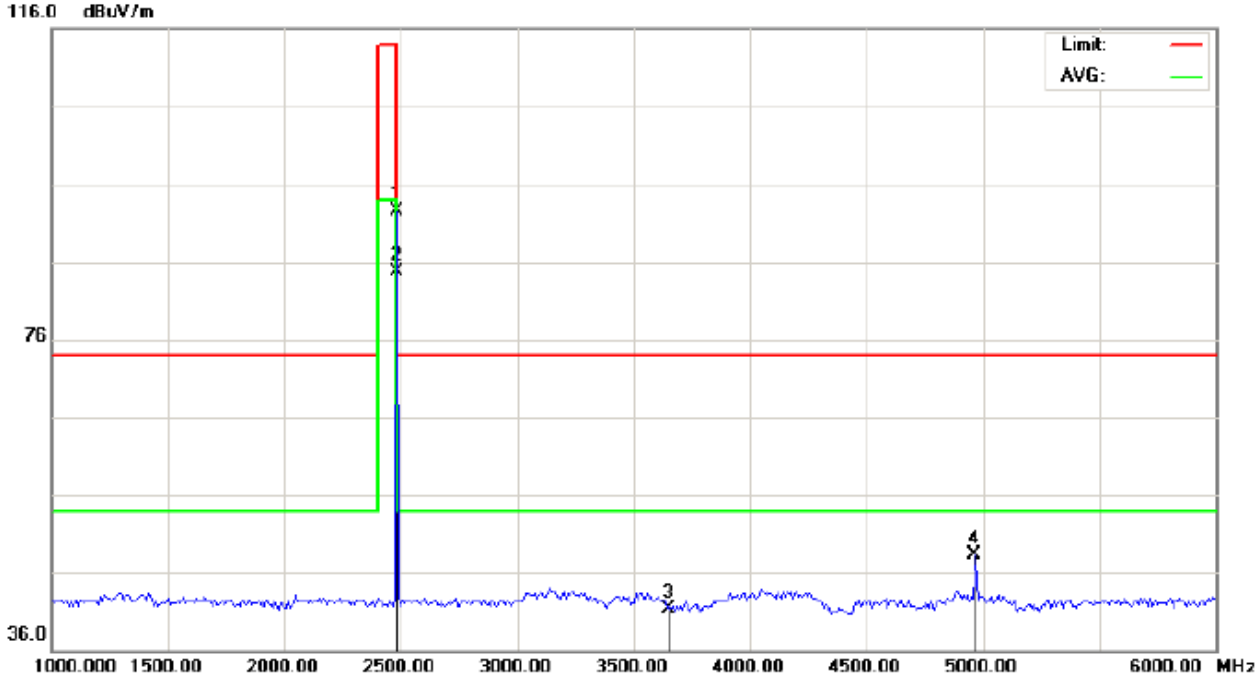
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	82.19	10.41	92.60	114.00	-21.40	peak			
2	*	2480.000	74.20	10.41	84.61	94.00	-9.39	AVG	100	55	
3		3652.000	28.28	13.05	41.33	74.00	-32.67	peak			
4		4960.000	40.16	8.09	48.25	74.00	-25.75	peak			

RESULT: PASS

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

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	81.71	10.32	92.03	114	-21.97	Horizontal
2402	81.69	10.32	92.01	114	-21.99	Vertical
2441	82.25	10.36	92.61	114	-21.39	Horizontal
2441	81.99	10.36	92.35	114	-21.65	Vertical
2480	82.47	10.41	92.88	114	-21.12	Horizontal
2480	82.19	10.41	92.60	114	-21.40	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.84	10.32	84.16	94	-9.84	Horizontal
2402	73.70	10.32	84.02	94	-9.98	Vertical
2441	74.21	10.36	84.57	94	-9.43	Horizontal
2441	74.06	10.36	84.42	94	-9.58	Vertical
2480	74.28	10.41	84.69	94	-9.31	Horizontal
2480	74.20	10.41	84.61	94	-9.39	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.63	10.32	91.95	114	-22.05	Horizontal
2402	81.55	10.32	91.87	114	-22.13	Vertical
2441	82.17	10.36	92.53	114	-21.47	Horizontal
2441	81.93	10.36	92.29	114	-21.71	Vertical
2480	82.40	10.41	92.81	114	-21.19	Horizontal
2480	82.10	10.41	92.51	114	-21.49	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.75	10.32	84.07	94	-9.93	Horizontal
2402	73.60	10.32	83.92	94	-10.08	Vertical
2441	74.15	10.36	84.51	94	-9.49	Horizontal
2441	73.99	10.36	84.35	94	-9.65	Vertical
2480	74.19	10.41	84.60	94	-9.40	Horizontal
2480	74.12	10.41	84.53	94	-9.47	Vertical

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.57	10.32	91.89	114	-22.11	Horizontal
2402	81.43	10.32	91.75	114	-22.25	Vertical
2441	82.11	10.36	92.47	114	-21.53	Horizontal
2441	81.85	10.36	92.21	114	-21.79	Vertical
2480	82.32	10.41	92.73	114	-21.27	Horizontal
2480	82.02	10.41	92.43	114	-21.57	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.69	10.32	84.01	94	-9.99	Horizontal
2402	73.49	10.32	83.81	94	-10.19	Vertical
2441	74.07	10.36	84.43	94	-9.57	Horizontal
2441	73.85	10.36	84.21	94	-9.79	Vertical
2480	74.00	10.41	84.41	94	-9.59	Horizontal
2480	74.02	10.41	84.43	94	-9.57	Vertical

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10. BAND EDGE EMISSION

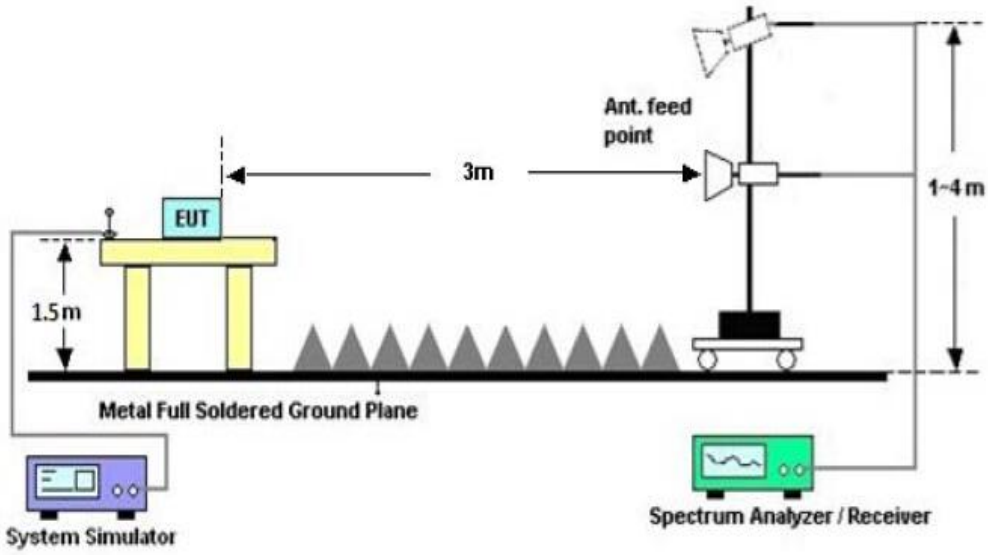
10.1. MEASUREMENT PROCEDURE

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	2405
2478	2500

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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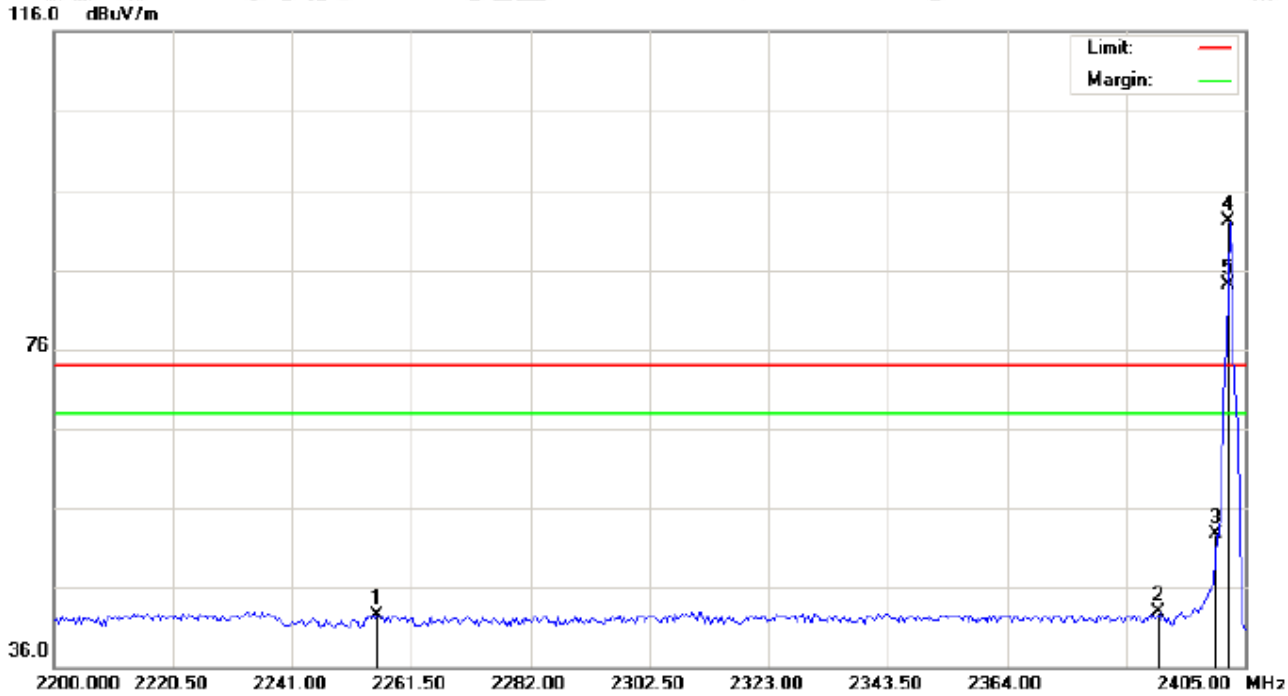
10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2255.692	32.32	10.16	42.48	74.00	-31.52	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	81.81	10.32	92.13	74.00	18.13	peak			
5	X	2402.000	73.79	10.32	84.11	74.00	10.11	AVG	100	40	

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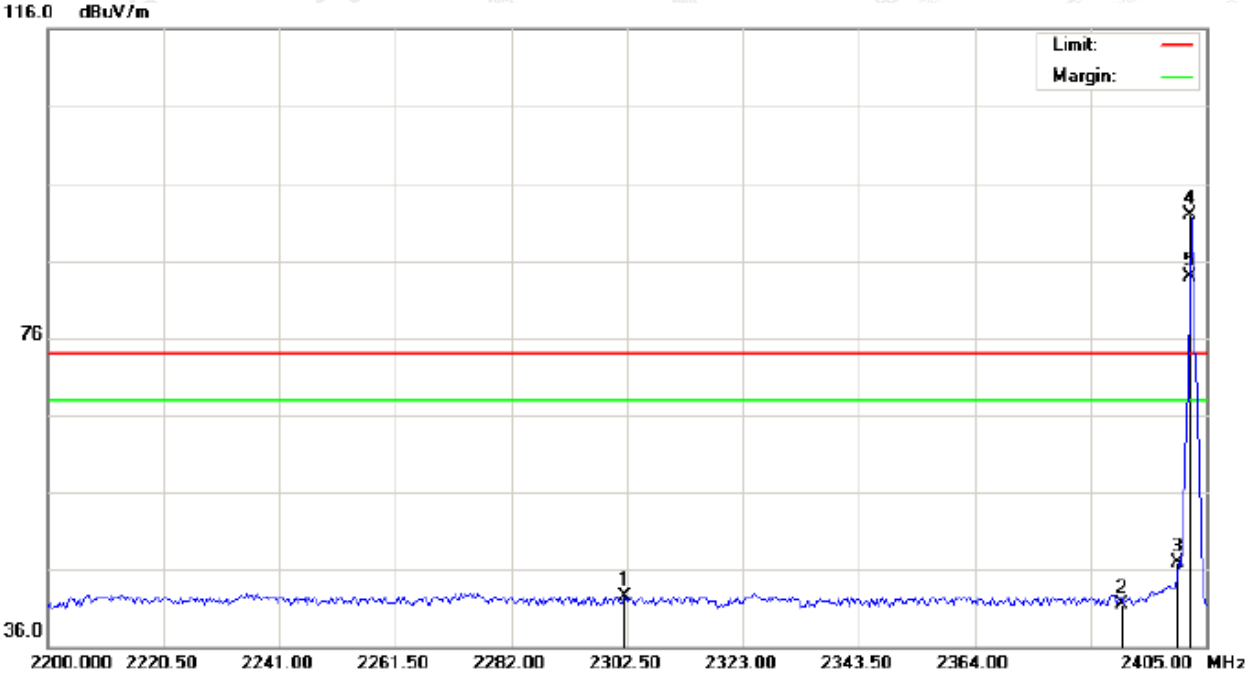
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2302.000	32.25	10.21	42.46	74.00	-31.54	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	36.56	10.32	46.88	74.00	-27.12	peak			
4	*	2402.000	81.51	10.32	91.83	74.00	17.83	peak			
5	X	2402.000	73.54	10.32	83.86	74.00	9.86	AVG	100	55	

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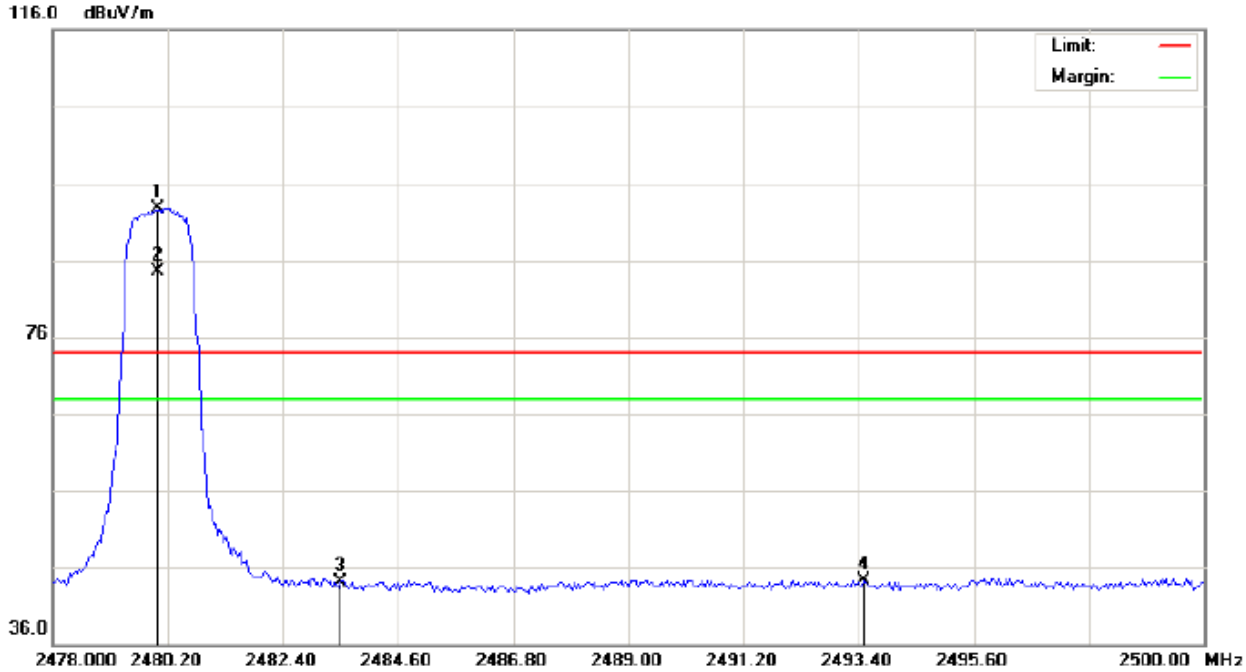
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	82.22	10.41	92.63	74.00	18.63	peak			
2	X	2480.000	74.19	10.41	84.60	74.00	10.60	AVG	100	41	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2493.510	33.87	10.42	44.29	74.00	-29.71	peak			

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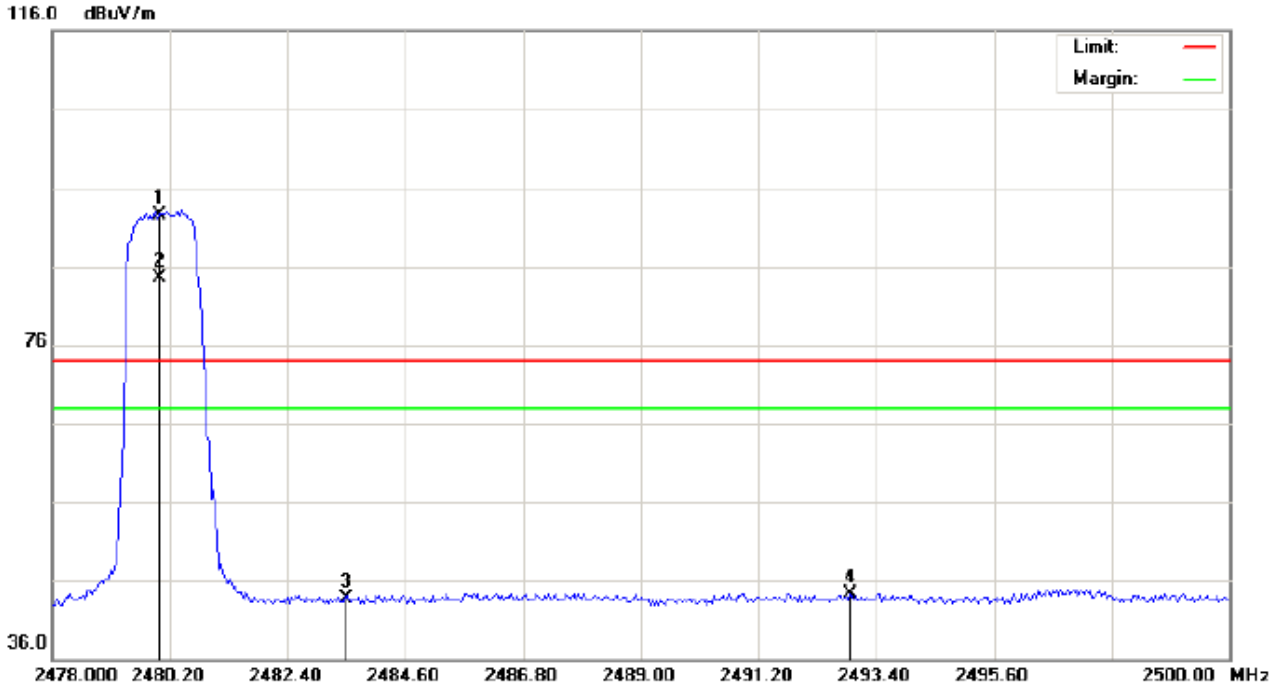
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	82.12	10.41	92.53	74.00	18.53	peak			
2	X	2480.000	74.10	10.41	84.51	74.00	10.51	AVG	100	51	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2492.923	33.88	10.42	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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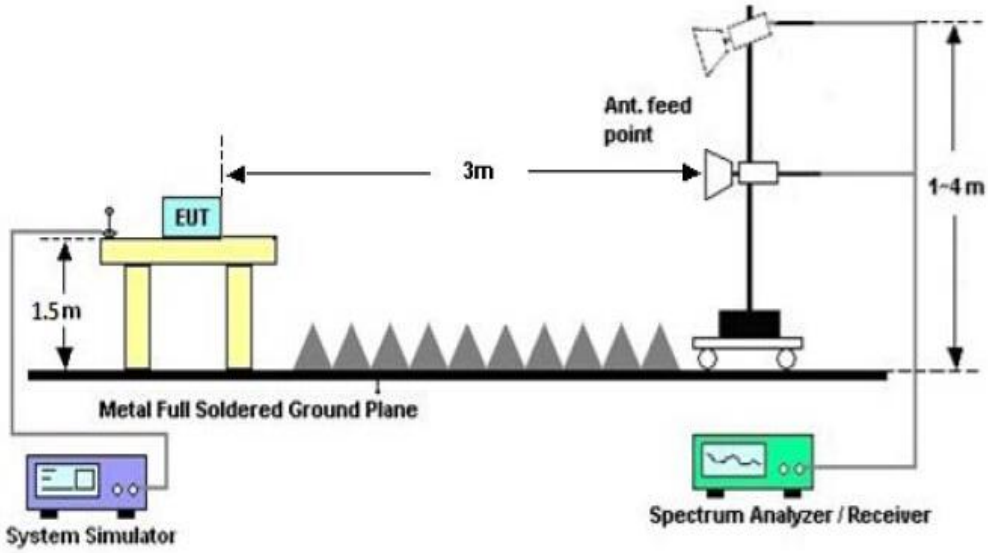
11. 20DB BANDWIDTH

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 BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	0.958	1.095	PASS
	Middle Channel	0.951	1.107	PASS
	High Channel	0.954	1.103	PASS

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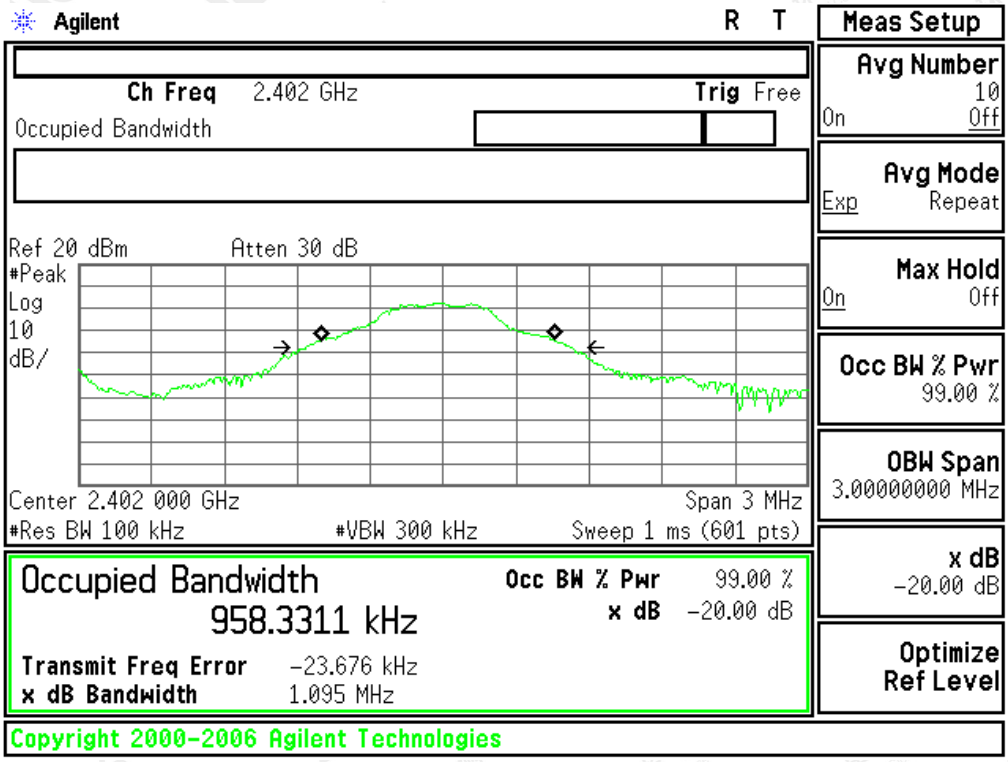
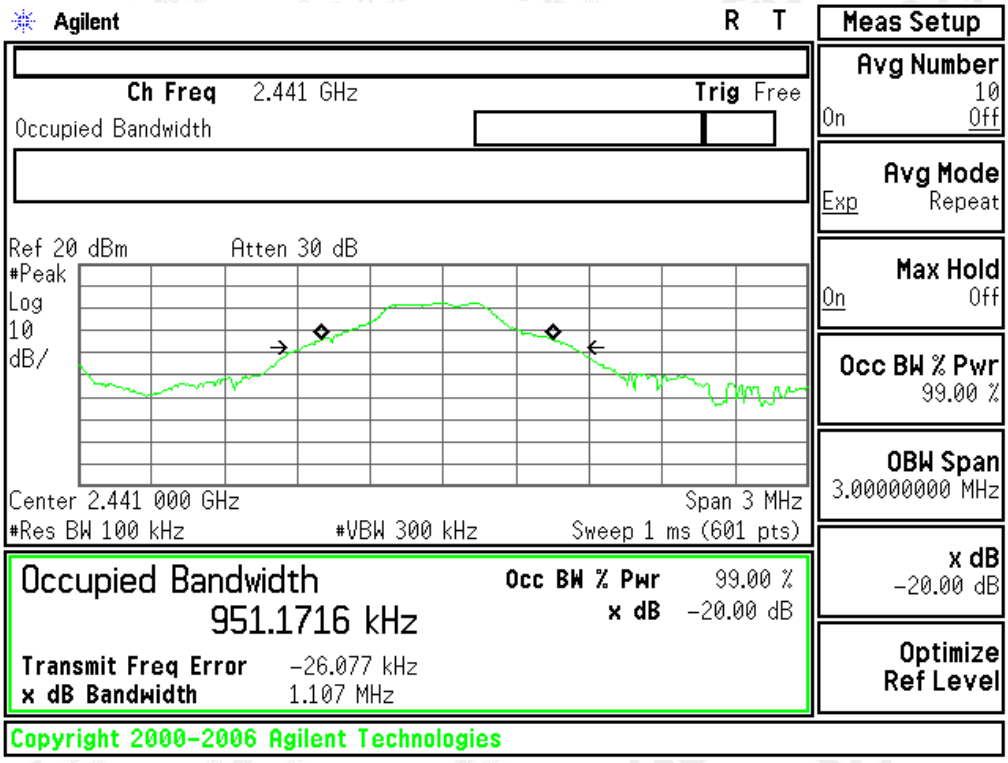
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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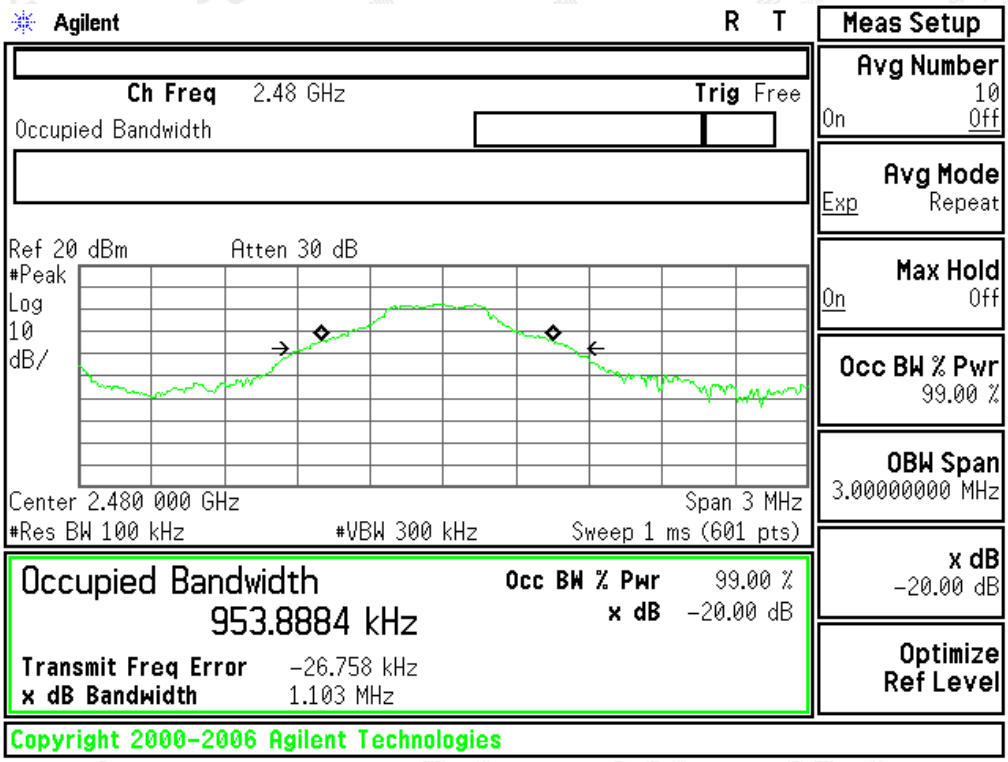
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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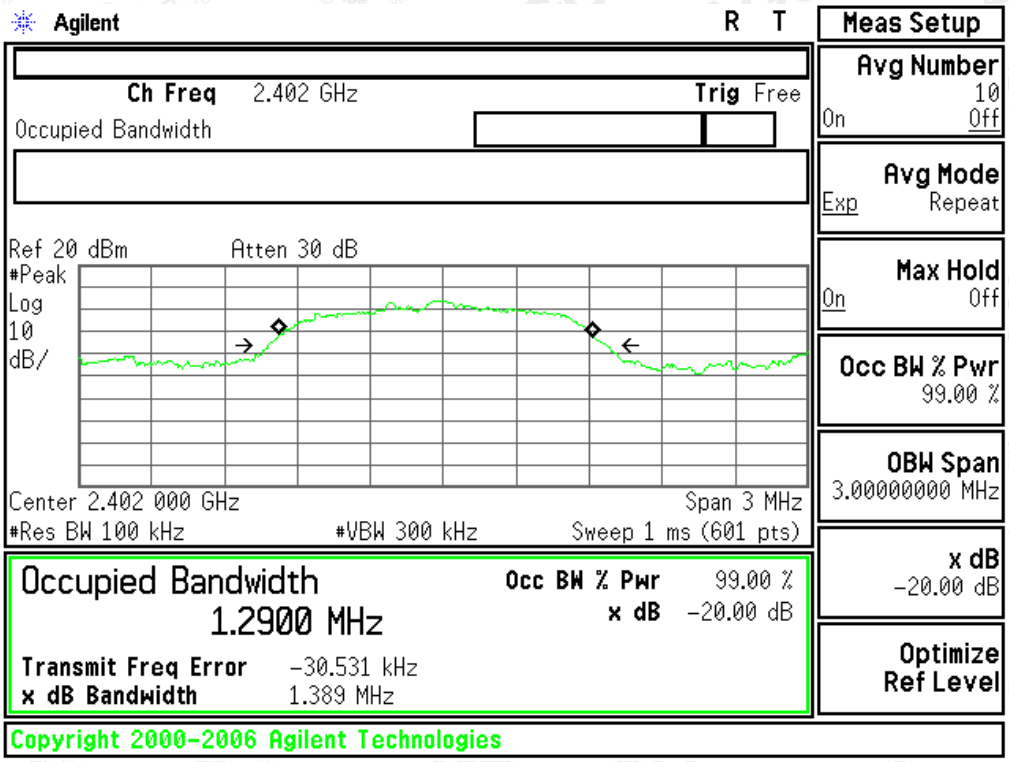
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.290	1.389	PASS
	Middle Channel	1.289	1.377	PASS
	High Channel	1.287	1.385	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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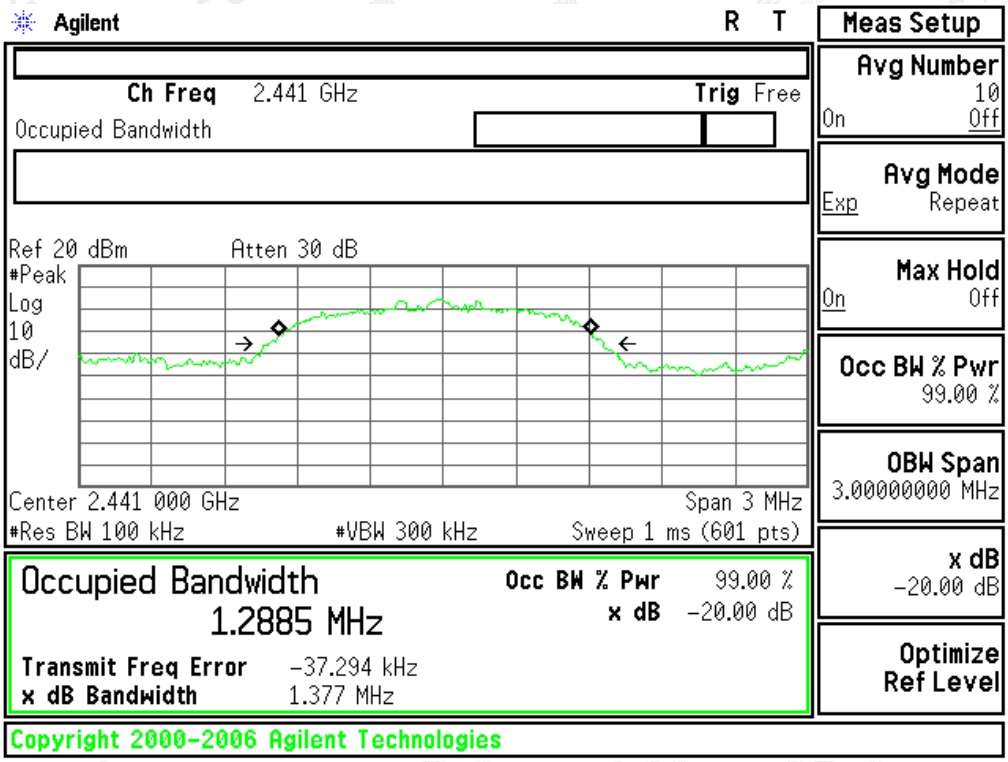
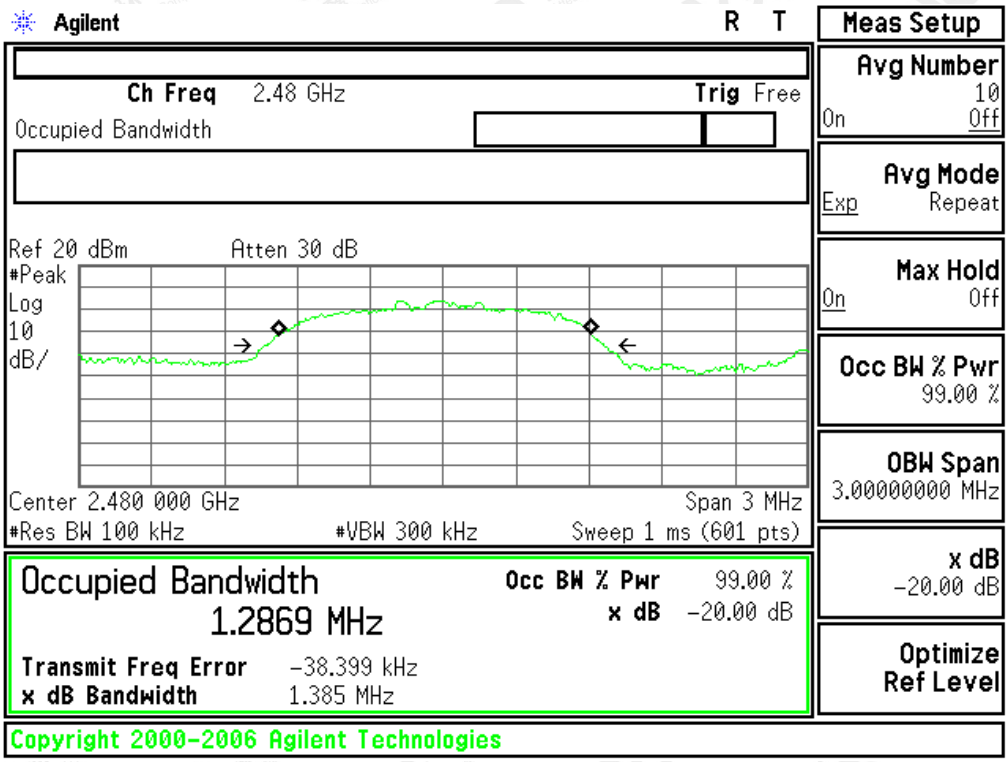
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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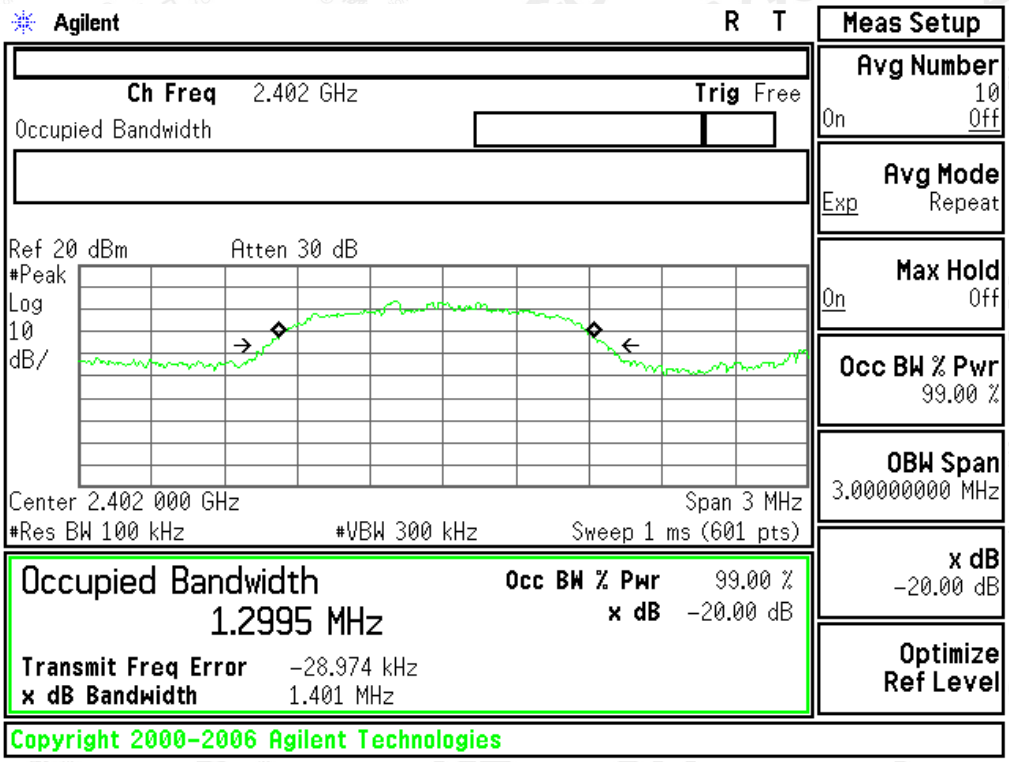
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.300	1.401	PASS
	Middle Channel	1.291	1.399	PASS
	High Channel	1.285	1.391	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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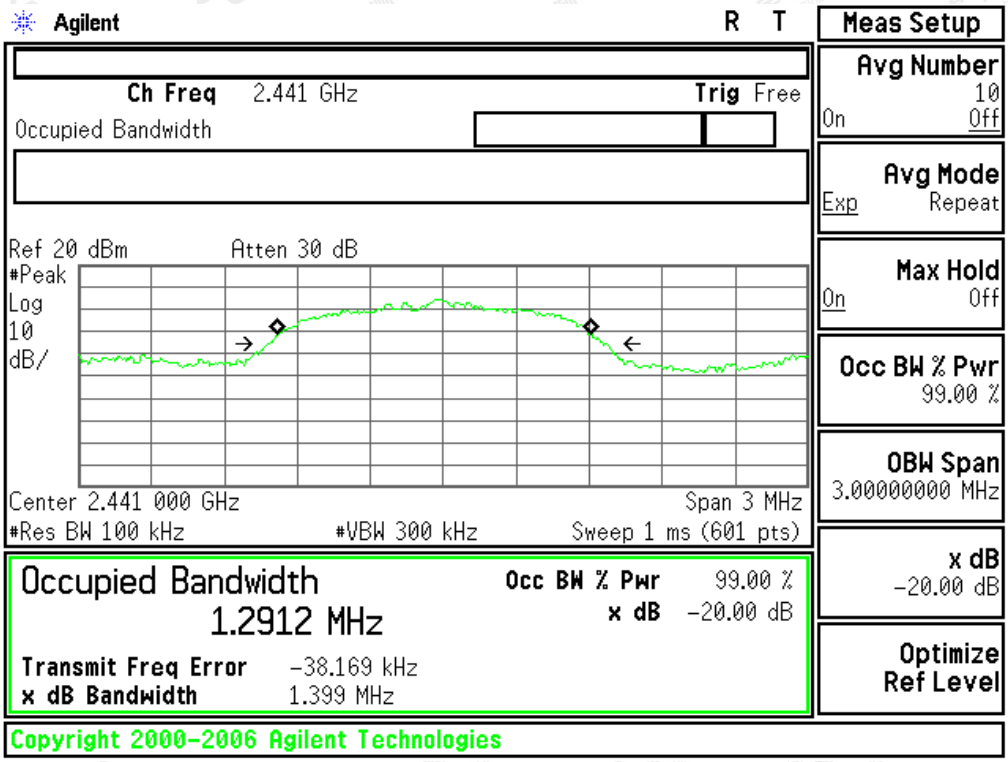
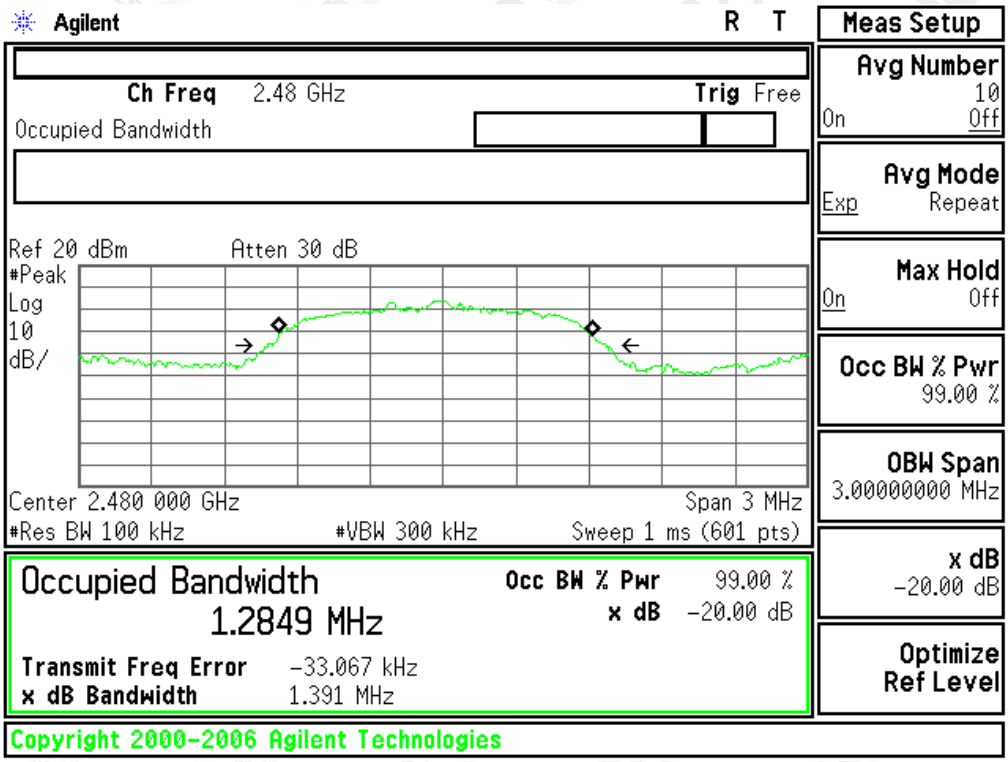
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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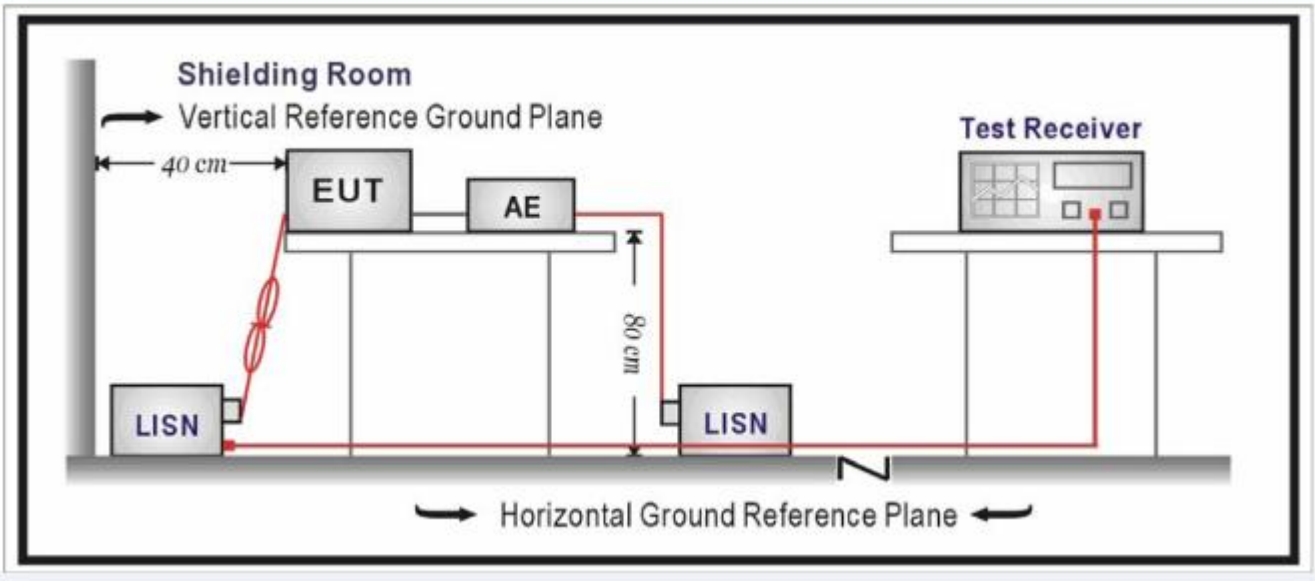
12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	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

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 DC charging voltage by adapter or PC 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

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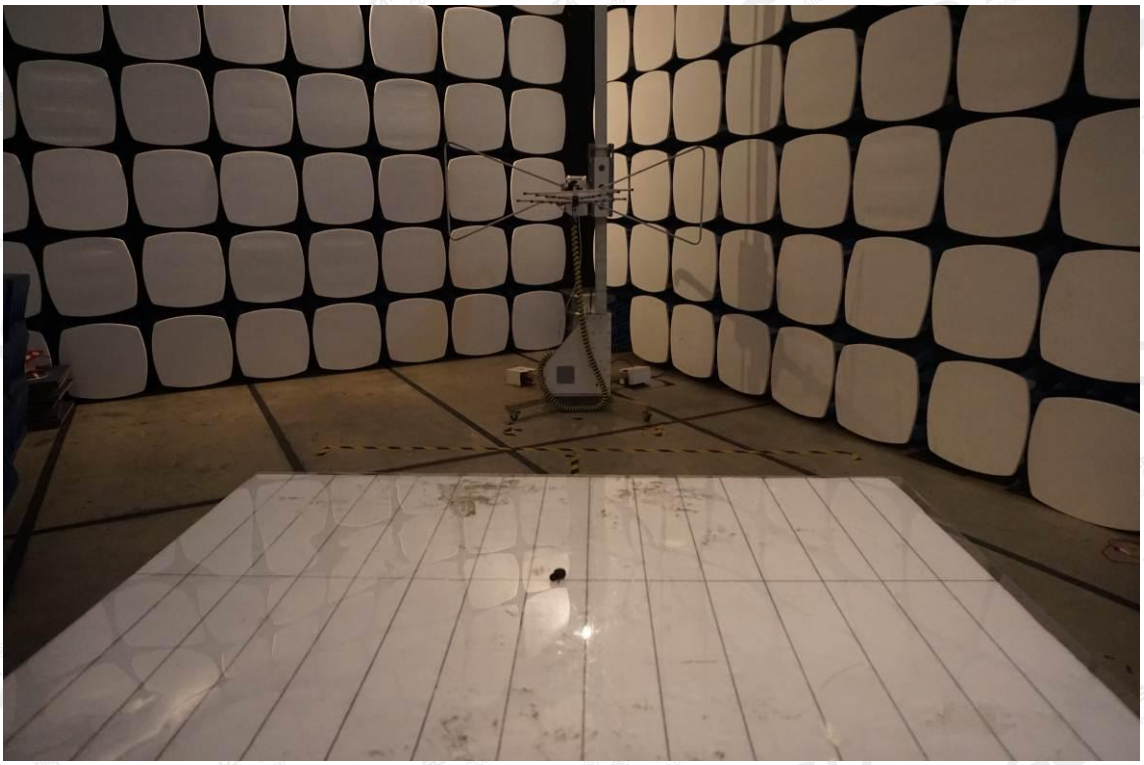
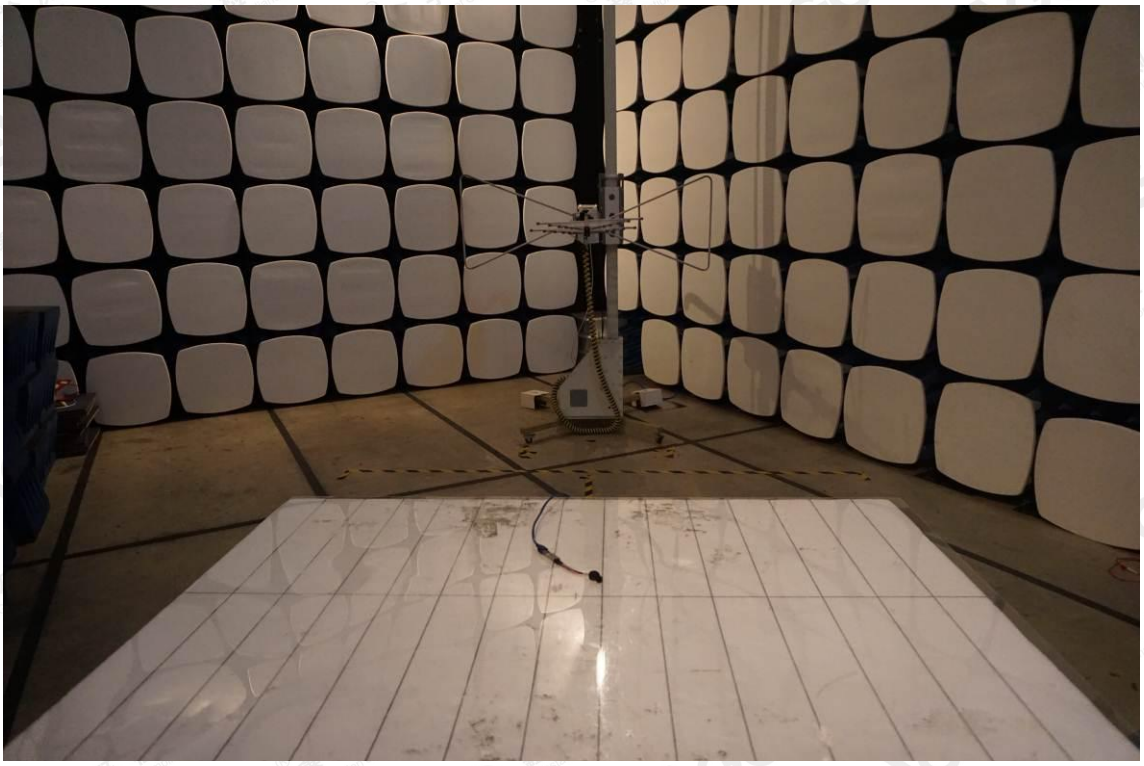
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





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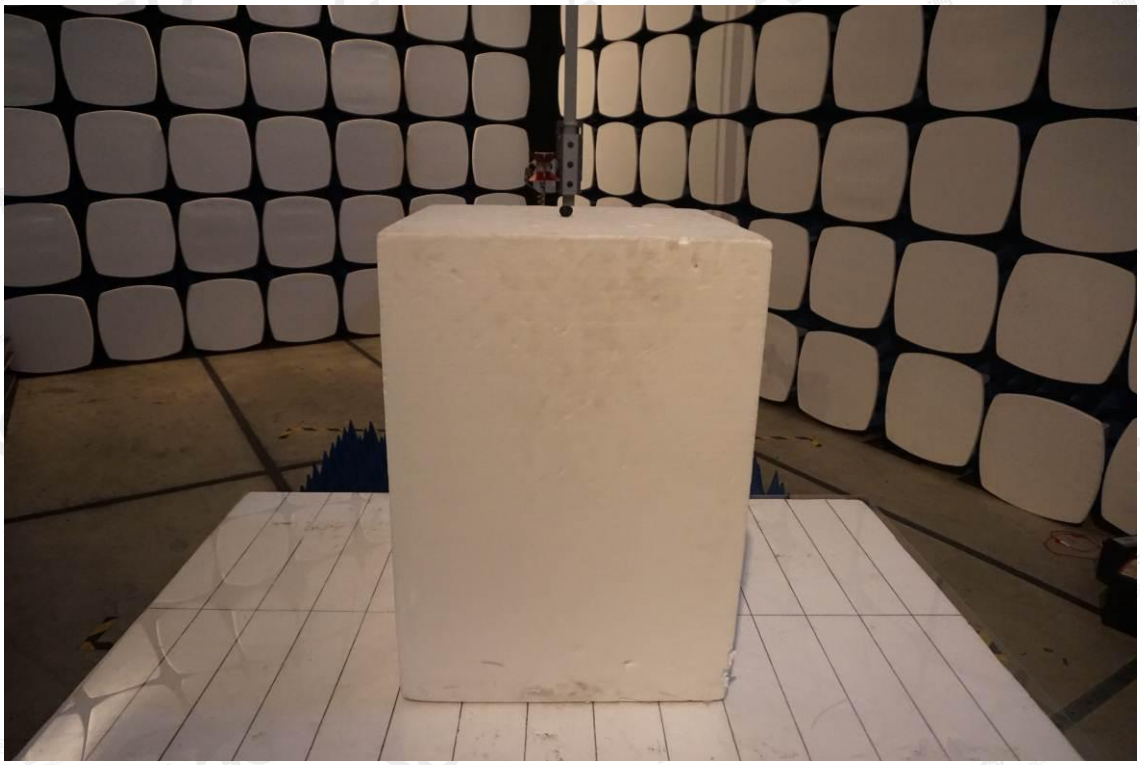

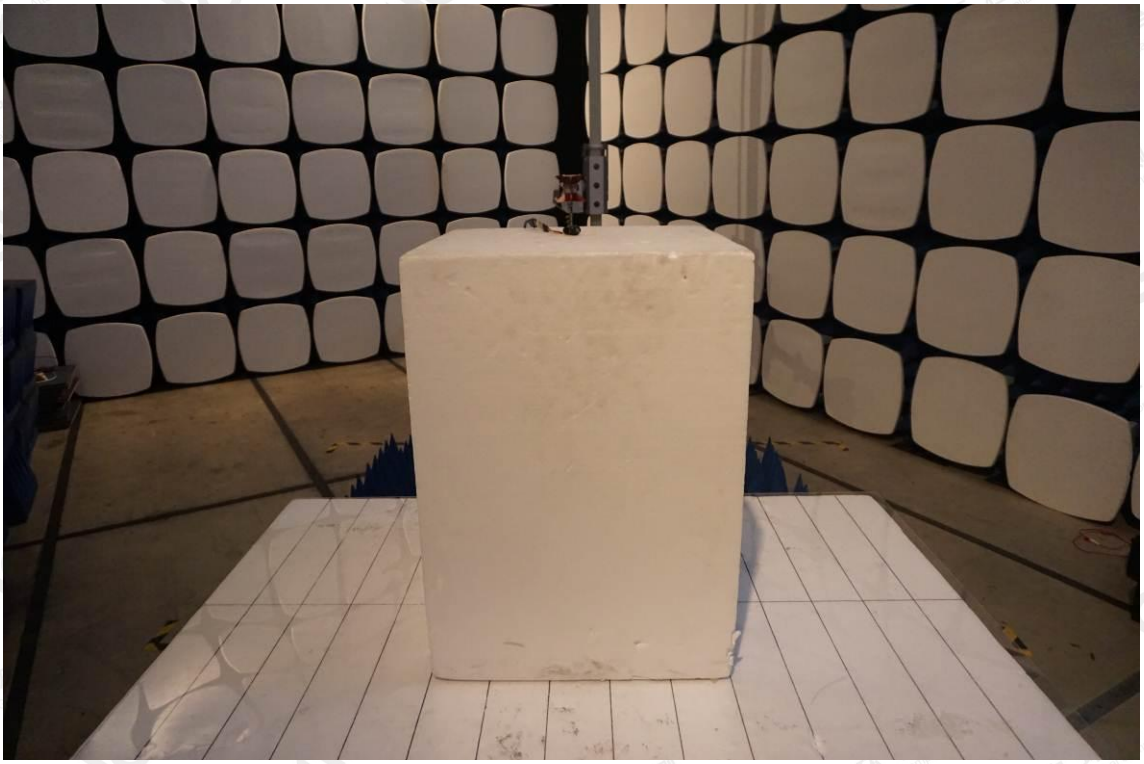

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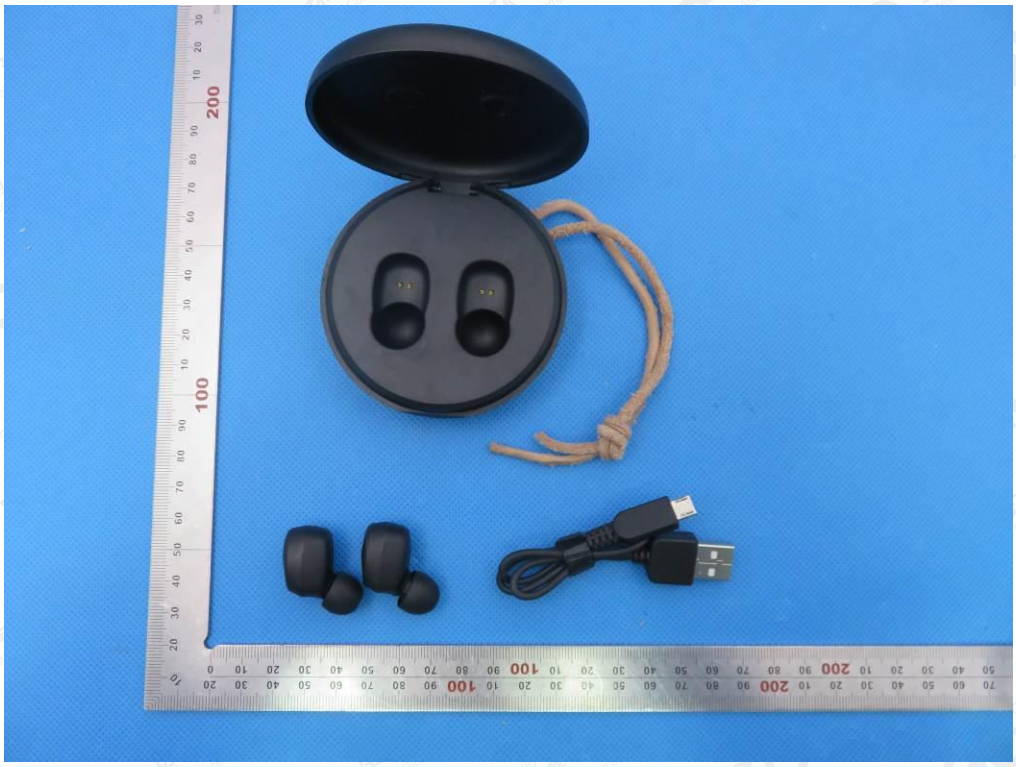
APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT

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BOTTOM VIEW OF EUT

FRONT VIEW OF EUT

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BACK VIEW OF EUT

LEFT VIEW OF EUT

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RIGHT VIEW OF EUT

Left

VIEW OF EUT (Port)

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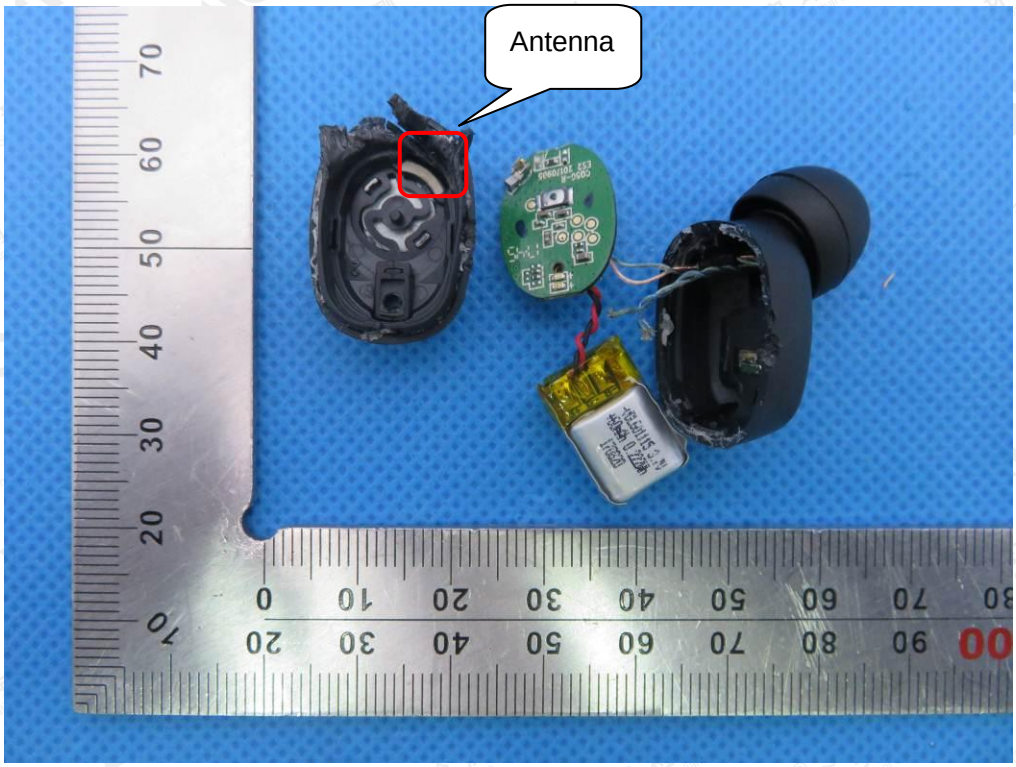
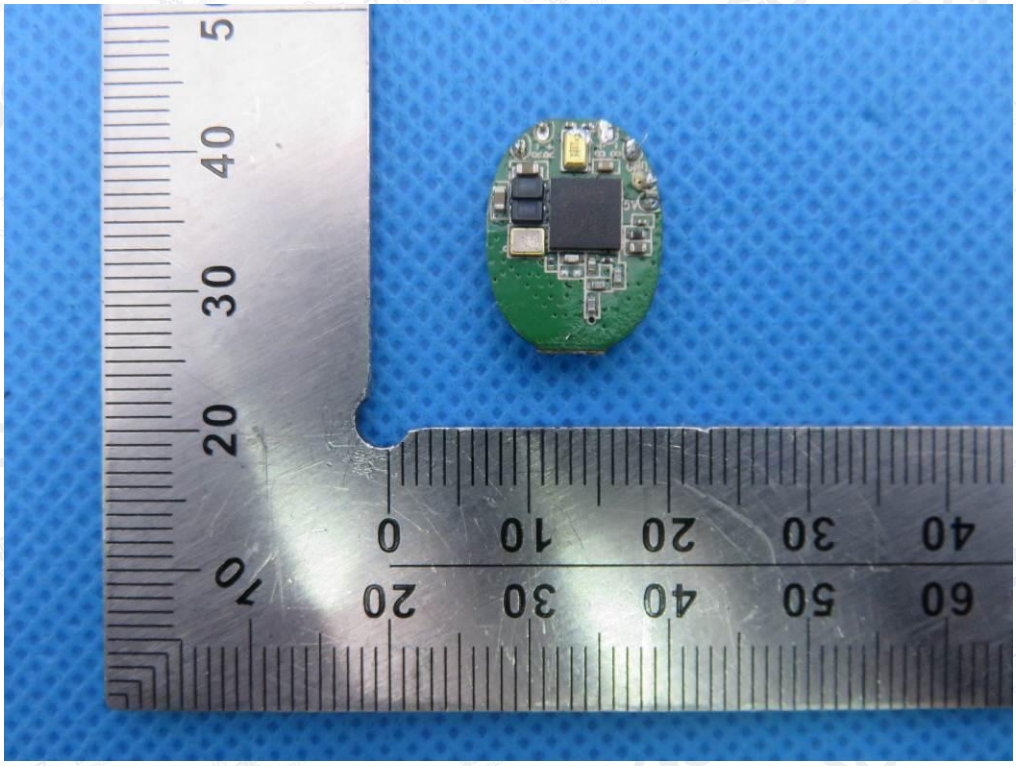
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



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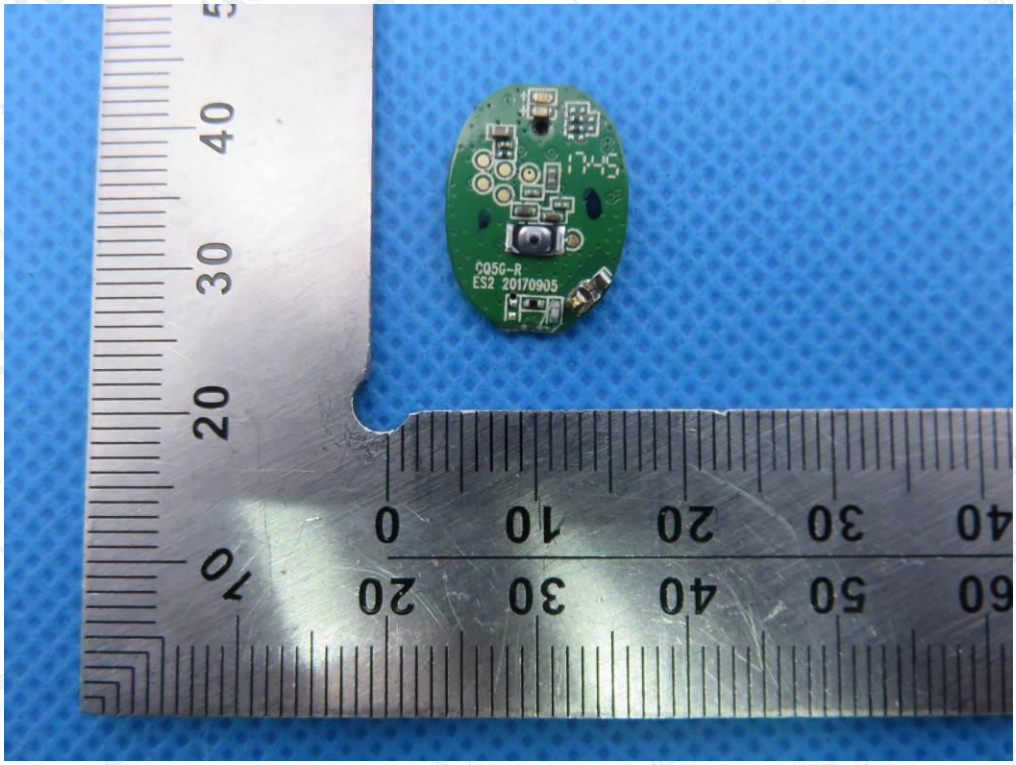
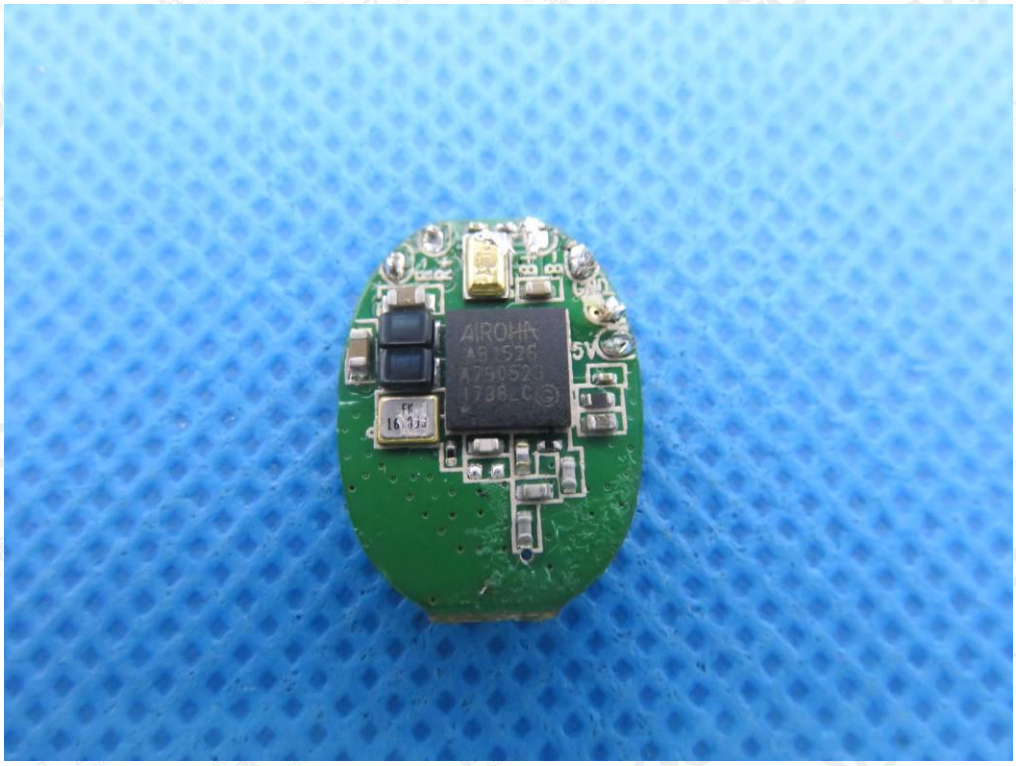
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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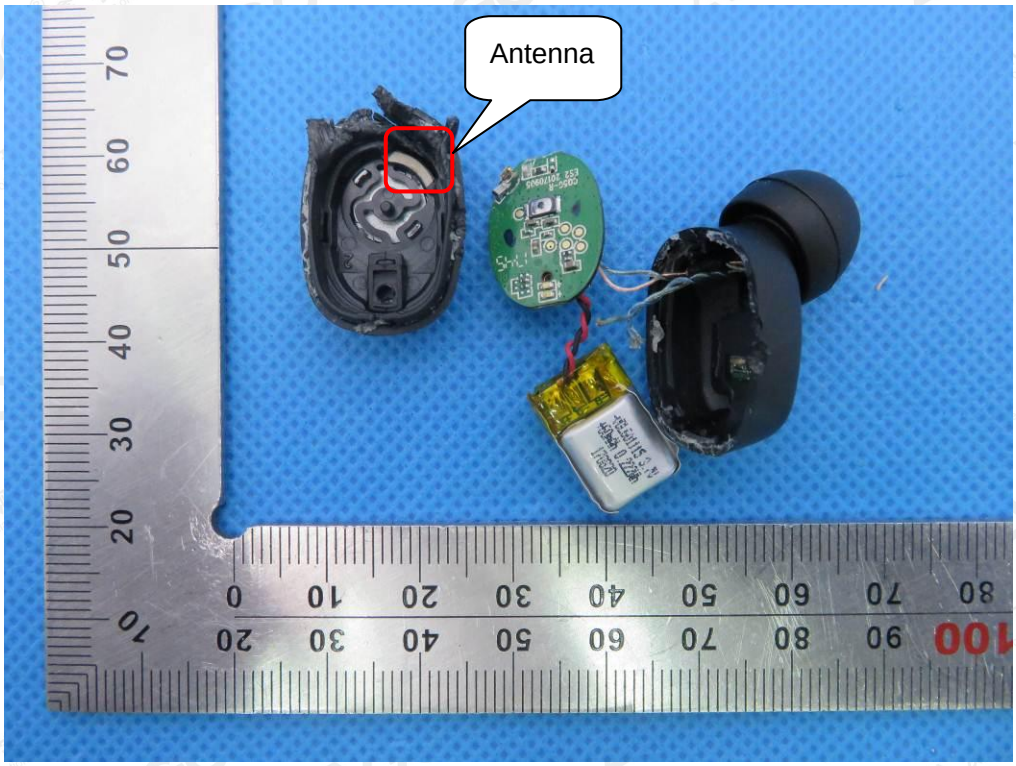
Right

VIEW OF EUT (Port)

OPEN VIEW OF EUT



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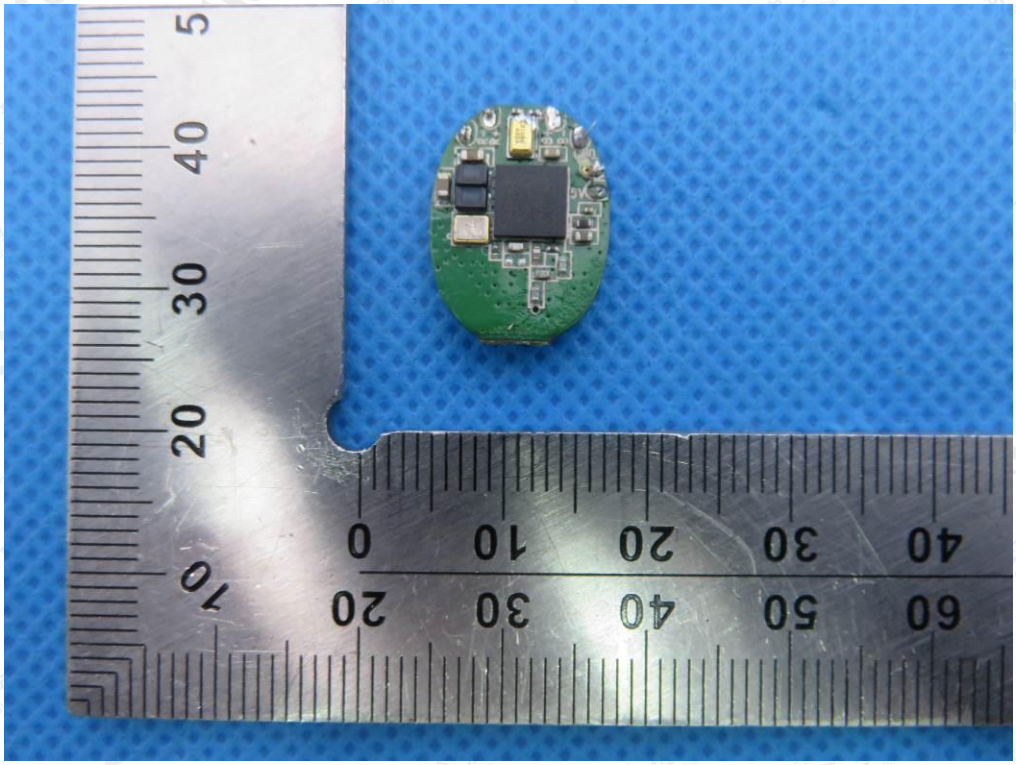
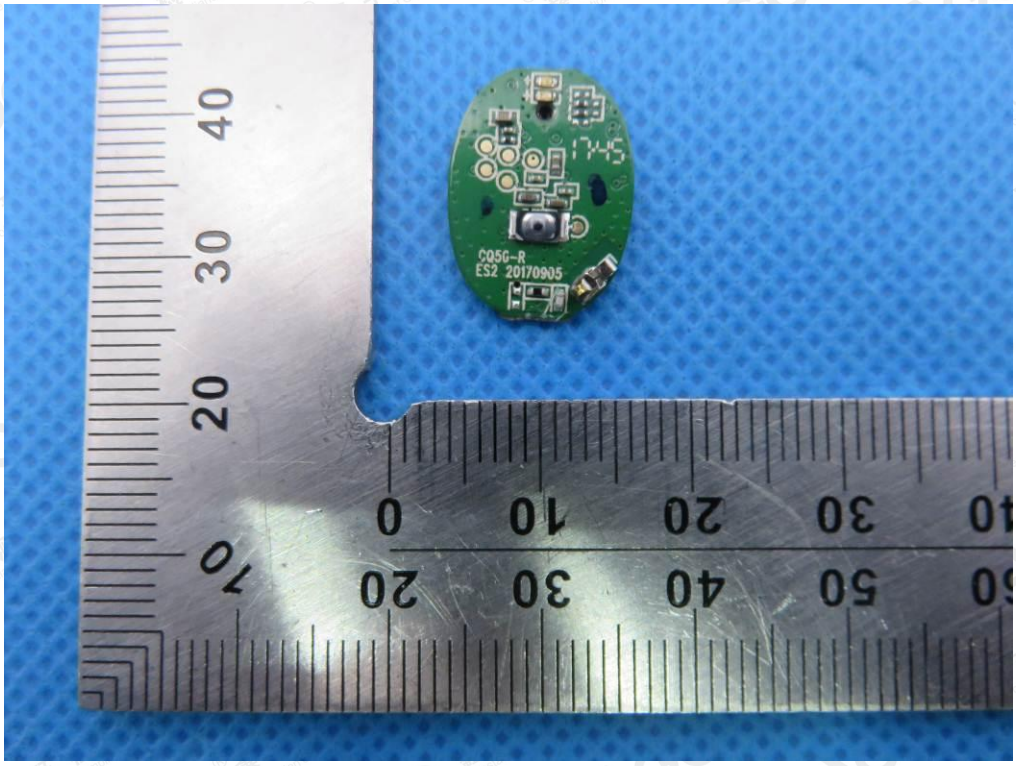
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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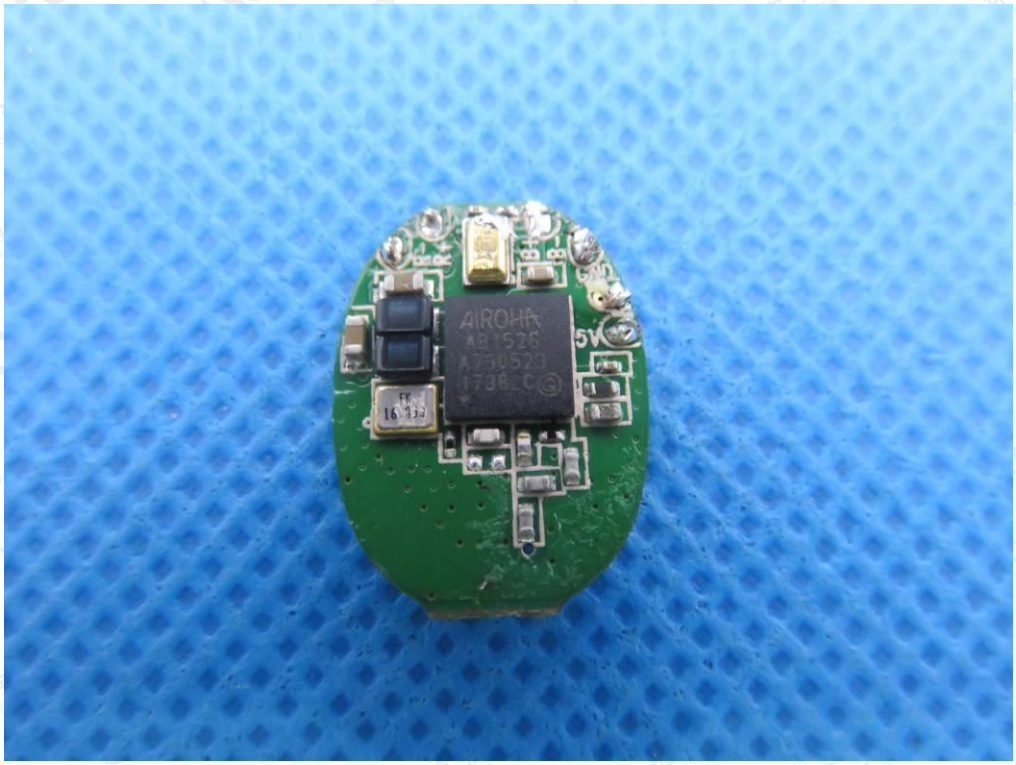
INTERNAL VIEW OF EUT-3



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Charging Dock

VIEW OF EUT(Port)-1

VIEW OF EUT(Port)-2

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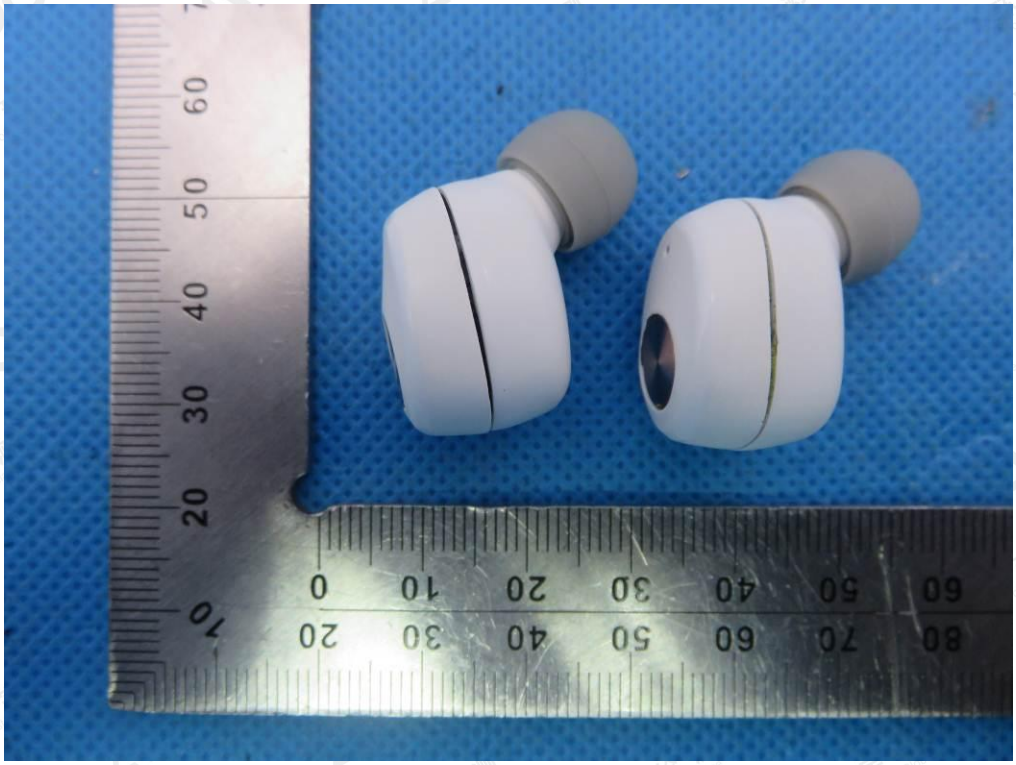
Series Model

Sudio Nivå white

TOTAL VIEW OF EUT

TOP VIEW OF EUT



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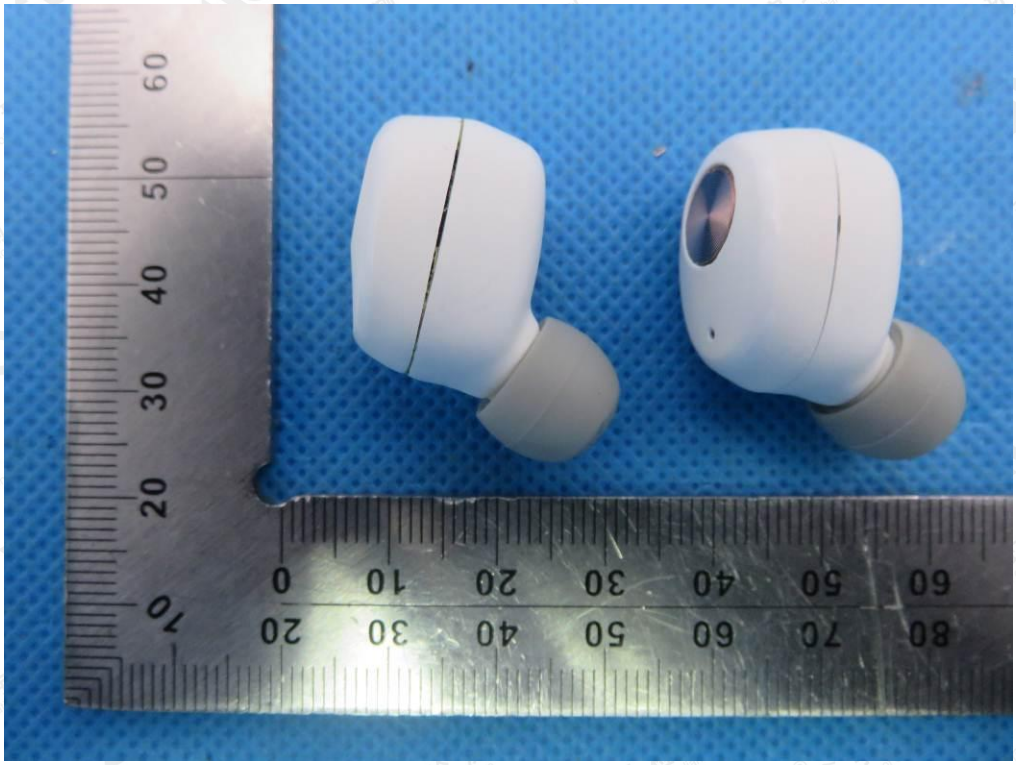
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

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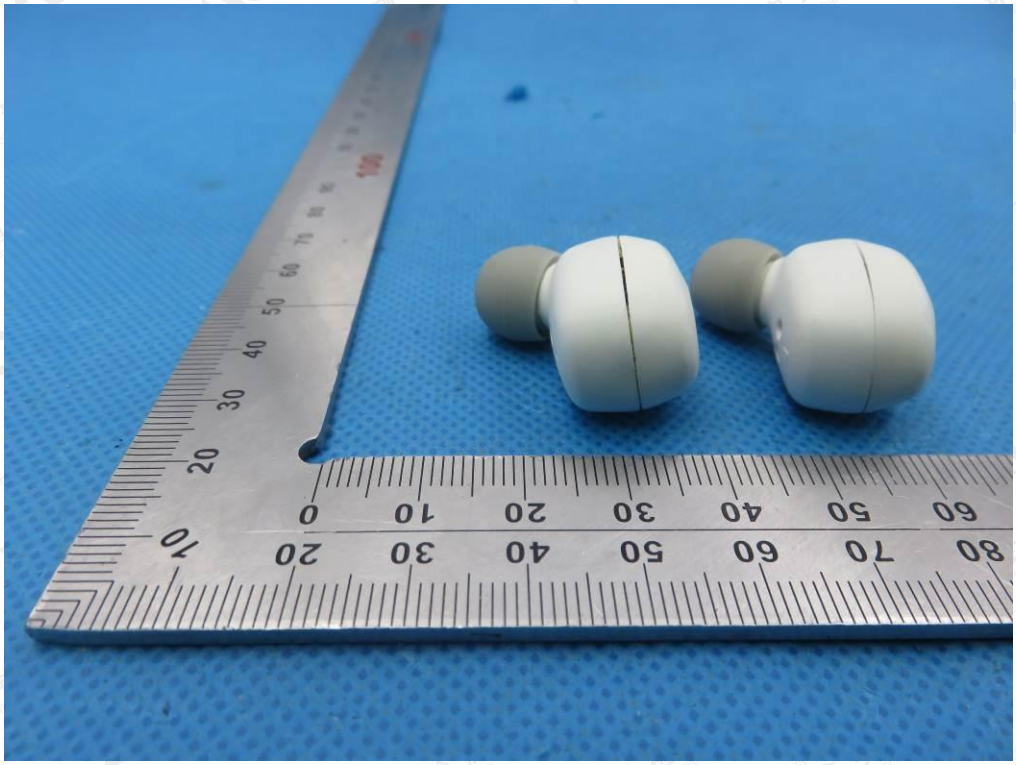
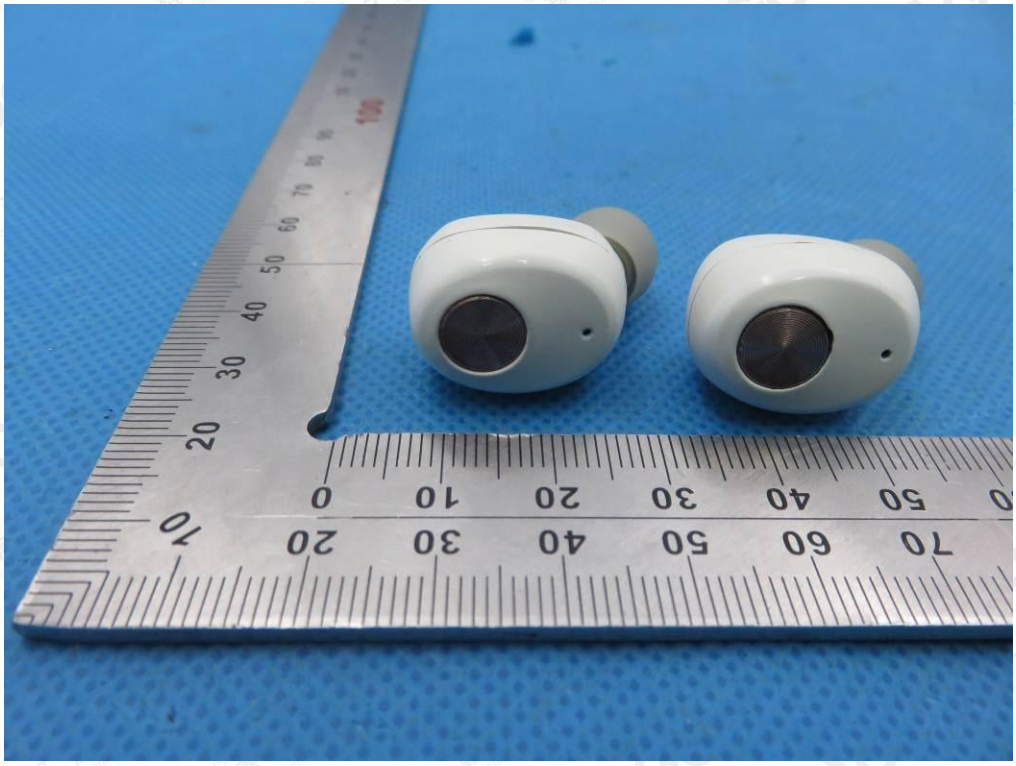
BACK VIEW OF EUT



LEFT VIEW OF EUT



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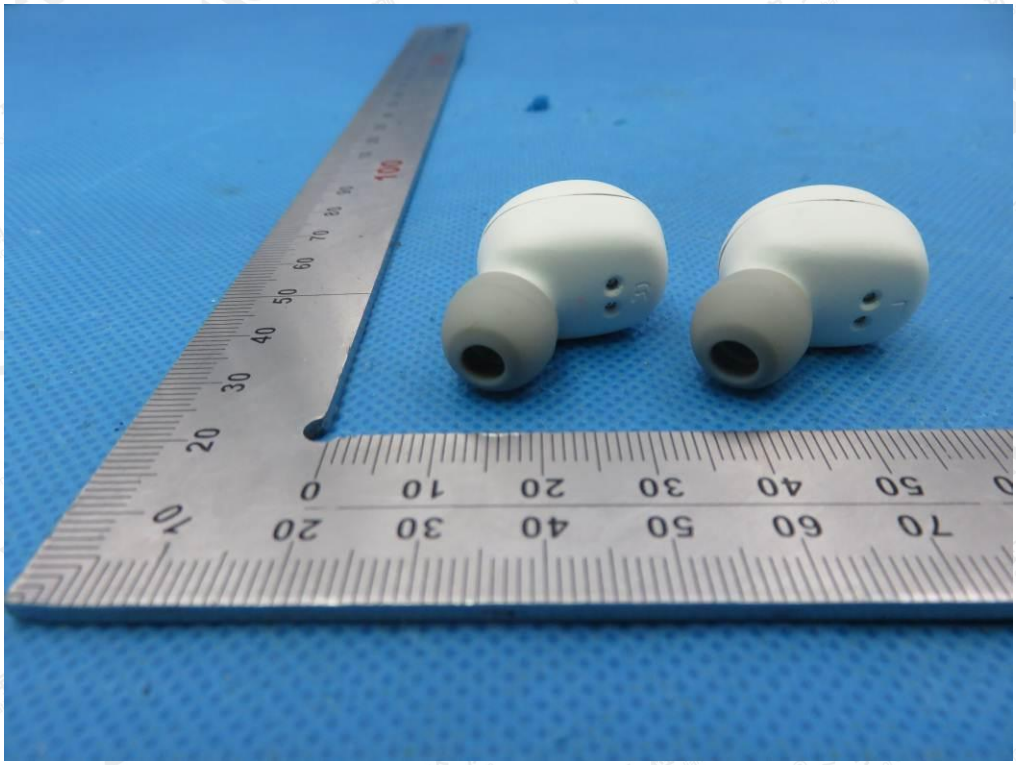
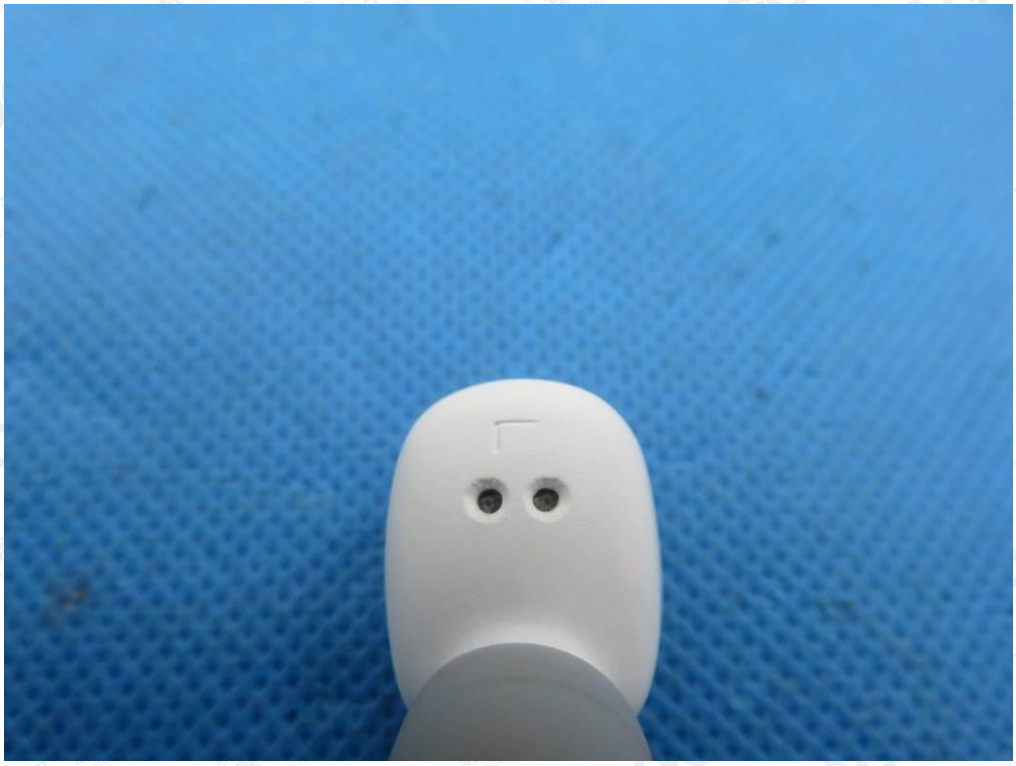
RIGHT VIEW OF EUT



VIEW OF EUT (Port)-left



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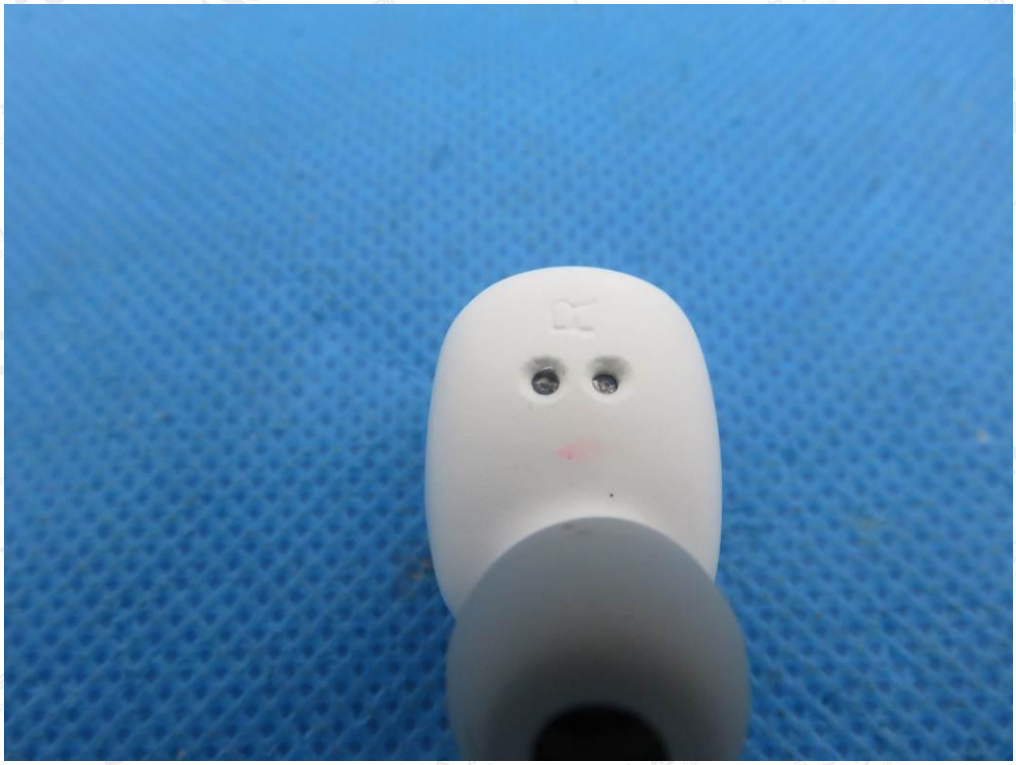
VIEW OF EUT (Port)-right



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Sudio Nivå camouflage

TOTAL VIEW OF EUT

TOP VIEW OF EUT

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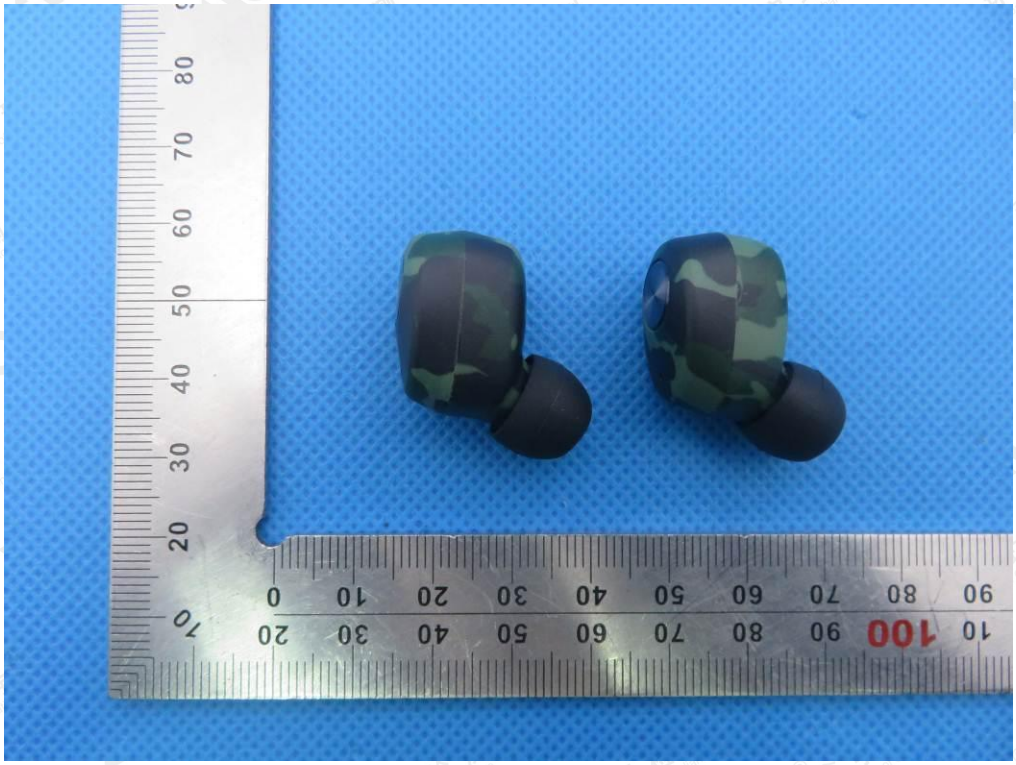
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

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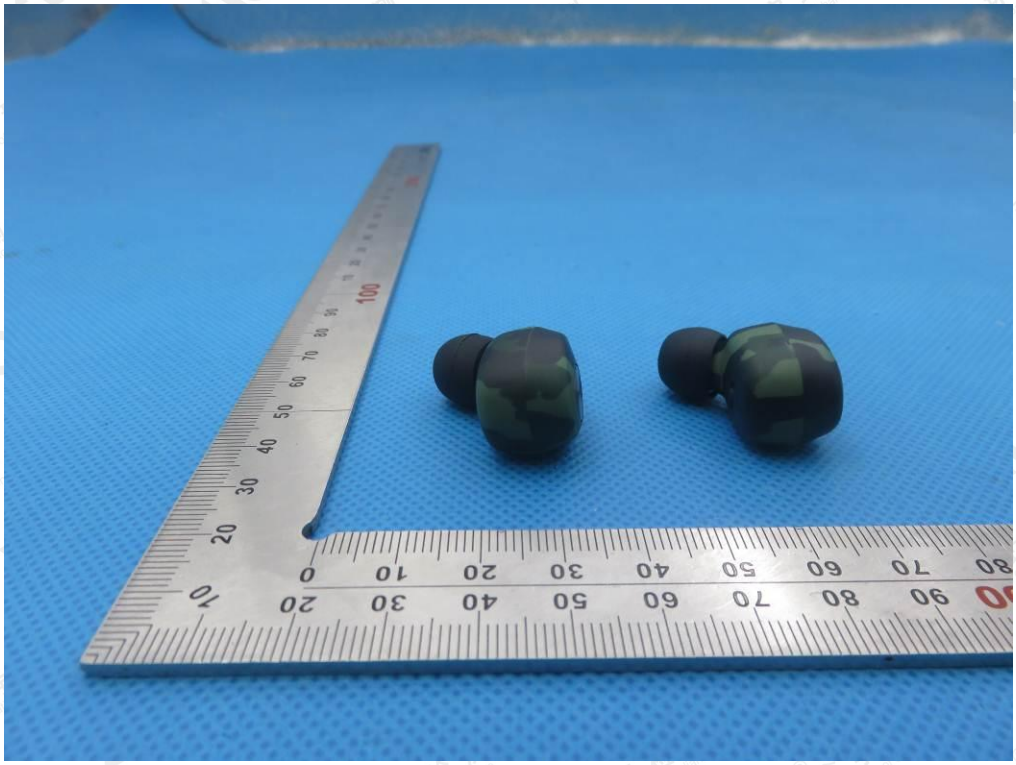
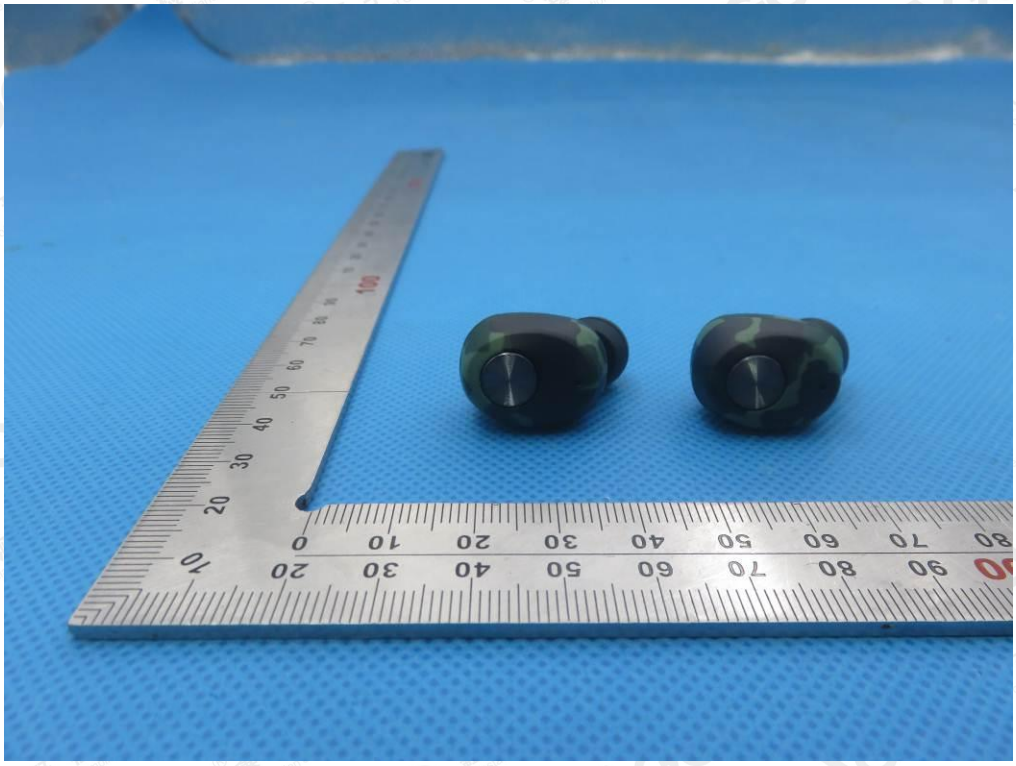
BACK VIEW OF EUT



LEFT VIEW OF EUT



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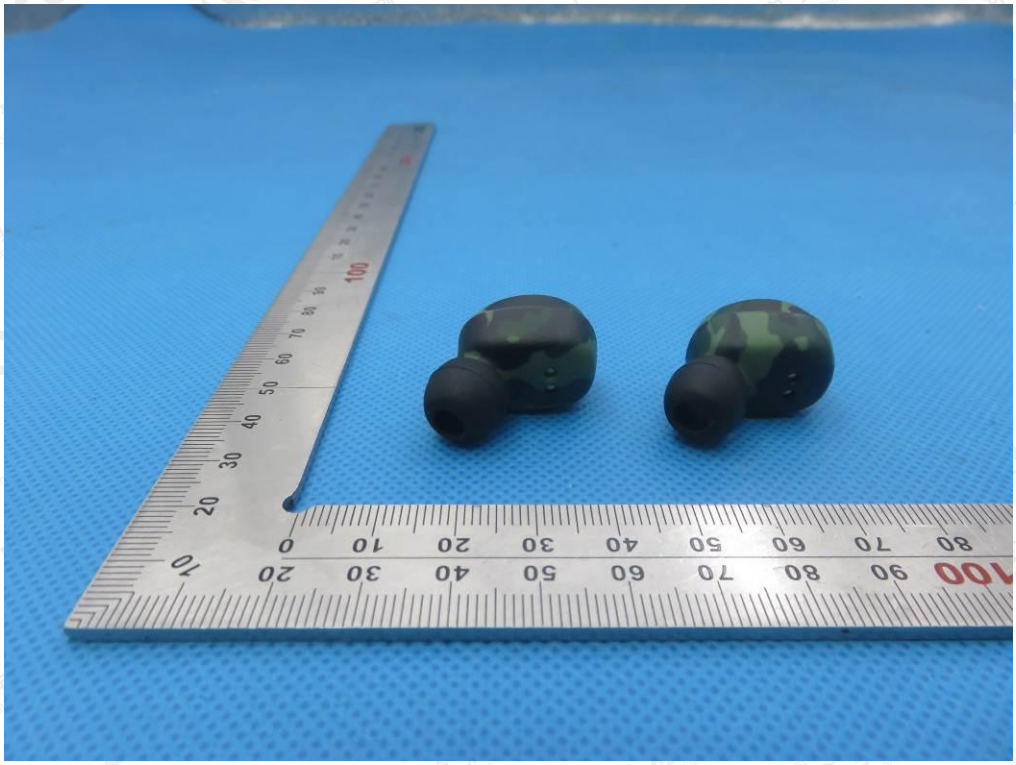
RIGHT VIEW OF EUT



VIEW OF EUT (Port)-left

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VIEW OF EUT (Port)-right

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Sudio Nivå black

TOTAL VIEW OF EUT

TOP VIEW OF EUT

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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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RIGHT VIEW OF EUT

VIEW OF EUT (Port)-left

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VIEW OF EUT (Port)-right

----END OF REPORT----

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