

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

INNOVATIVE TECHNOLOGY ELECTRONICS LLC

Bluetooth Rock Speakers

Model Number: ITSBO-L513

Additional Model: ITSBO-358P5, ITSBO-358PS5, ITSBO-513P5, ITSBO-513PS5

FCC ID: 2AFHW-ITSBOL513

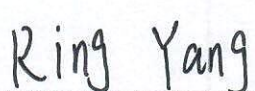
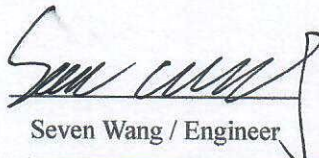

Prepared for:	INNOVATIVE TECHNOLOGY ELECTRONICS LLC
	1 CHANNEL DRIVE,PORT WASHINGTON,New York 11050,United States
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
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Report Number:	ESTE-R2007017-1
Date of Test:	Mar. 25~Apr. 09, 2021
Date of Report:	Apr. 12, 2021

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EST Technology Co., Ltd.

Applicant:	INNOVATIVE TECHNOLOGY ELECTRONICS LLC		
Address:	1 CHANNEL DRIVE, PORT WASHINGTON, New York 11050, United States		
Manufacturer:	Dongguan Yiertek Co., Ltd		
Address:	Building 2, No.5 Xingyu Road, Hengli Town, Dongguan City, Guangdong, China		
E.U.T:	Bluetooth Rock Speakers		
Model Number:	ITSBO-L513		
Additional Model:	ITSBO-358P5, ITSBO-358PS5, ITSBO-513P5, ITSBO-513PS5 (Model list, Please see section 1.3 of the report)		
Power Supply:	DC 5V From Adapter Input AC 100-240V, 50/60Hz; DC 3.7V From battery		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Mar. 25, 2021	Date of Test:	Mar. 25~Apr. 09, 2021
Test Specification:	FCC Part 15 Subpart C (15.247) ANSI C63.10:2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
Prepared by:	Reviewed by:	Date: Apr. 12, 2021	
 Ring Yang / Assistant	 Seven Wang / Engineer	 Iceman Hu / Manager	
Other Aspects:	This report is based on the previous report with report number: R2007017. The original model: ITSBO-L513 modification: PCB board added a 2pin 2.0mm socket. Four models and two supply power are added in this report, just re-tested Radiated Emissions (30-1000MHz)、Conducted Emissions, other test item needn't re-tested.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Bluetooth Rock Speakers
Model Number	:	ITSBO-513PS5, ITSBO-L513
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Max Output Power (PEAK)	:	1.81dBm
Modulation Type	:	BT BDR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
Sample Type	:	Prototype production

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.9

1.3. Difference between Model Numbers

Model No.	Appearance of the color	Note
ITSBO-L513	Rice white	Base Model:
ITSBO-513PS5	Ash black	Compared with the base model, it adds solar panels and less LED panels
ITSBO-513P5		Compared with the base model, it less LED panels
ITSBO-358PS5		Compared with the base model, it adds solar panels and less LED panels
ITSBO-358P5		Compared with the base model, it less LED panels
Note: The only differences between these models are shown in the table below. They are electrically identical.		

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Maximum Peak Output Power	15.247(a)(1)	N/A
4	20dB Bandwidth	15.247(a)(1)	N/A
5	Carrier Frequency Separation	15.247(a)(1)	N/A
6	Number Of Hopping Channel	15.247(a)(1)(iii)	N/A
7	Dwell Time	15.247(a)(1)(iii)	N/A
8	Conducted Band Edge	15.247(d)	N/A
9	Conducted Spurious Emissions	15.247(d)	N/A
10	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.247(d)	PASS
11	AC Power Line Conducted Emissions	15.207	PASS
12	Antenna Requirement	15.203	N/A

Note:

(1) "N/A" denotes test is not applicable in this test report

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

Certificated by FCC, USA
Designation Number: CN1215
Test Firm Registration Number: 722932
Date of registration: November 21, 2017

Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

Certificated by Industry Canada
CAB identifier No.: CN0035
Date of registration: January 04, 2019

Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L2-64
Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 25GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

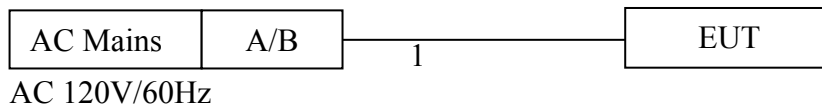
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	Flypower	PS10UA050K2000UU	N/A	N/A
B	Adapter	GangQi	GQ12-050200-ZU	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC CABLE

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.



(EUT: Bluetooth Rock Speakers)

2.6. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst case test mode was selected for the final test as listed below.

Test Item	Modulation Type	Operating Mode	Packet Type	Test Channel
Radiated Spurious Emissions(Below 1GHz)	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
AC Power Line Conducted Emissions	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

2.8. Power Setting of Test Software

Software Name	BT Tool		
Frequency(MHz)	2402	2441	2480
GFSK(1Mbps) Setting	7	7	7
8-DPSK(3Mbps) Setting	7	7	7

2.9. Test Equipmen

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,20	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,20	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,20	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9 kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,20	1 Year
Active Loop Antenna	SCHWABE ECK	FMZB 1519B	EST-E054	LISAI	June 13,20	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,20	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,20	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

3. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

3.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

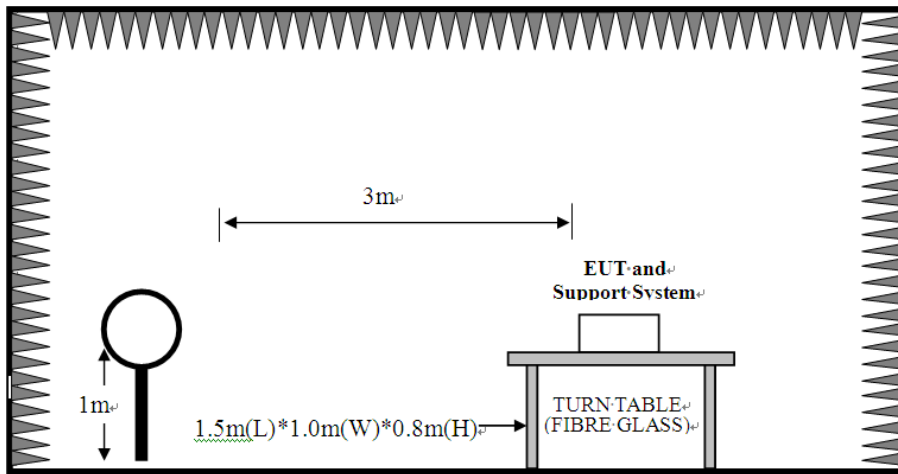
Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

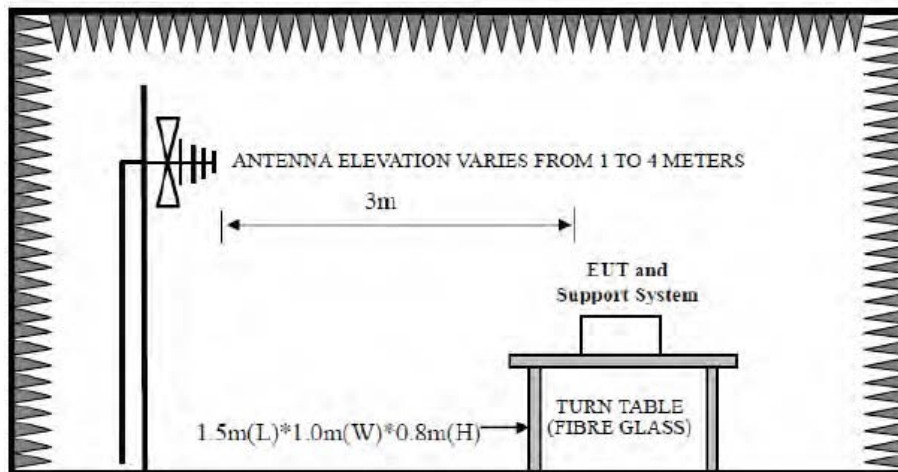
- (1) Emission level dBμV = 20 log Emission level μV/m.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2. Test Setup

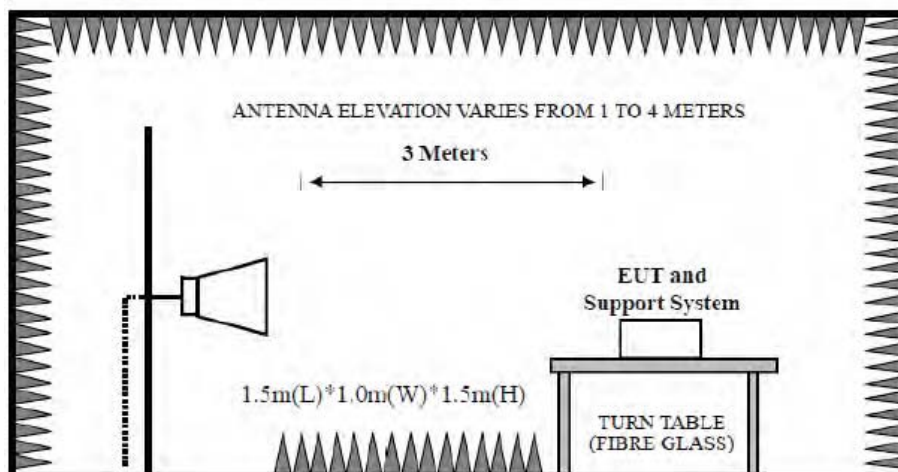
9kHz~30MHz



30~1000MHz



Above 1GHz



3.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz
		Duty cycle $< 98\%$, VBW $\geq 1/T$
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

3.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 10.3.
- g. Repeat above procedures until all channels and test modes were measured.
- h. Record the results in the test report.

Note:

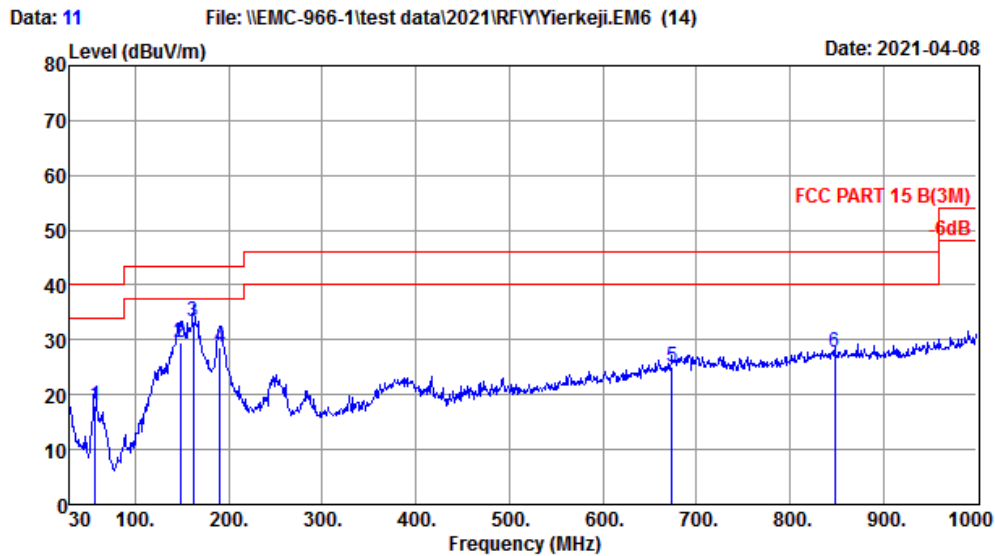
1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

3.5. Test Result

Radiated Emissions Below 1GHz

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Site no. : 1# 966 Chamber Data no. : 11
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.2°C;Humi:47%;Press:101.5kPa
 Engineer : Pluto
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PS5
 Test Mode : TX Mode
 GQ12-050200-ZU

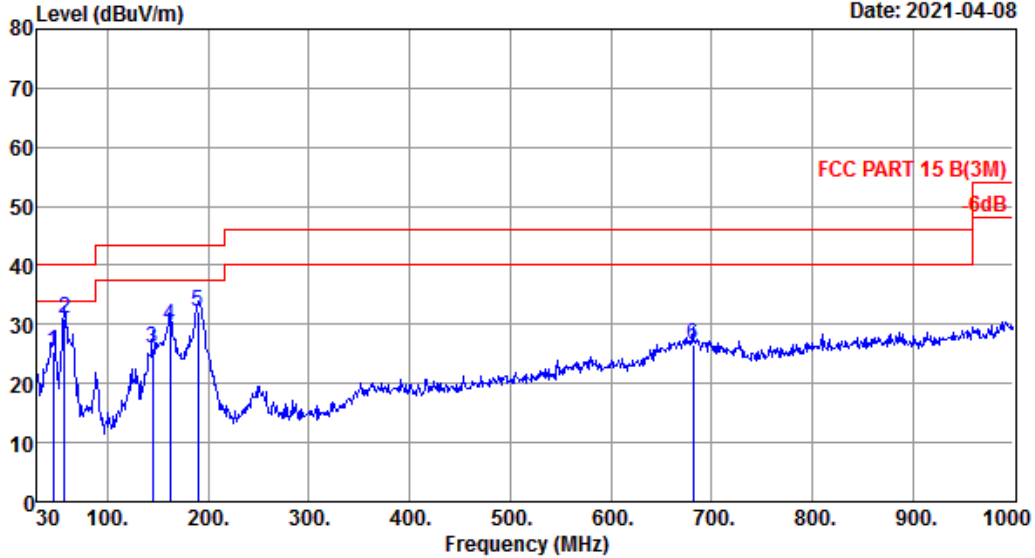
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	57.1600	5.70	0.37	12.04	18.11	40.00	21.89	QP
2	148.3400	11.64	1.08	16.75	29.47	43.50	14.03	QP
3	161.9200	10.98	1.15	21.29	33.42	43.50	10.08	QP
4	191.0200	8.88	1.25	18.40	28.53	43.50	14.97	QP
5	674.0800	21.70	3.22	0.25	25.17	46.00	20.83	QP
6	847.7100	23.18	3.73	0.92	27.83	46.00	18.17	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 12 File: \\EMC-966-1\test data\2021\RF\Y\Yierkeji.EM6 (14) Date: 2021-04-08



Site no. : 1# 966 Chamber Data no. : 12
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.2°C;Humi:47%;Press:101.5kPa
 Engineer : Pluto
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PS5
 Test Mode : TX Mode
 GQ12-050200-ZU

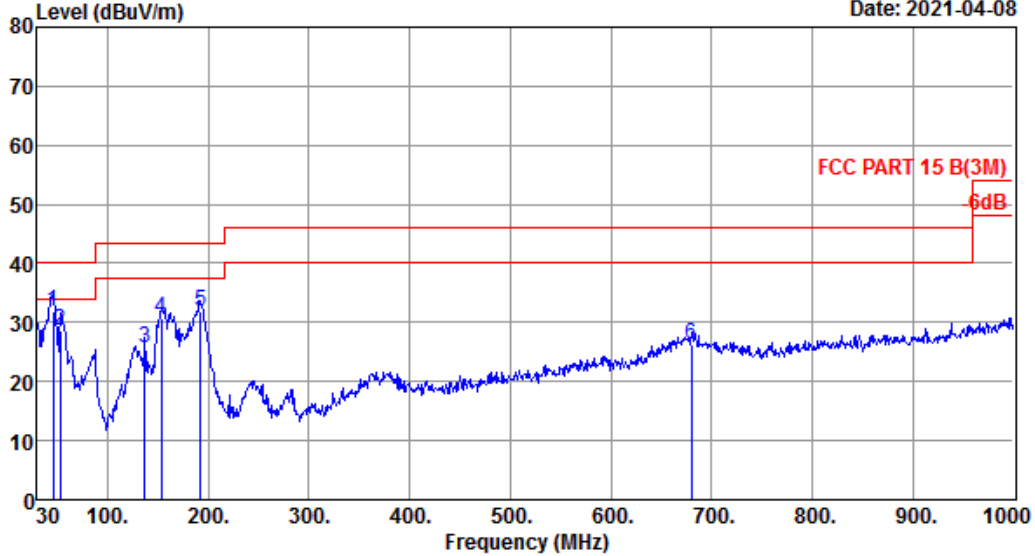
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	45.5200	9.80	0.26	15.32	25.38	40.00	14.62	QP
2	57.1600	5.70	0.37	24.86	30.93	40.00	9.07	QP
3	144.4600	11.83	1.07	13.13	26.03	43.50	17.47	QP
4	161.9200	10.98	1.15	17.80	29.93	43.50	13.57	QP
5	190.0500	8.90	1.24	21.94	32.08	43.50	11.42	QP
6	681.8400	21.68	3.22	1.65	26.55	46.00	19.45	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 13 File: \\EMC-966-1\test data\2021\RF\Y\Yierkeji.EM6 (14) Date: 2021-04-08



Site no. : site Data no. : 13
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.2°C;Humi:47%;Press:101.5kPa
 Engineer : Pluto
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PS5
 Test Mode : TX Mode
 PS10UA050K2000UU

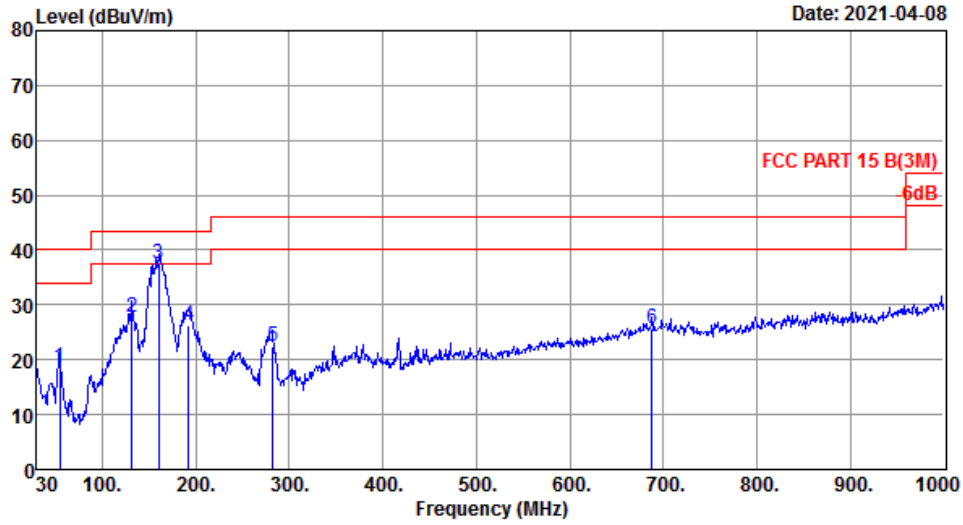
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	45.5200	9.80	0.26	21.90	31.96	40.00	8.04	QP
2	53.2800	7.05	0.33	21.34	28.72	40.00	11.28	QP
3	136.7000	11.96	1.01	12.63	25.60	43.50	17.90	QP
4	153.1900	11.42	1.10	18.08	30.60	43.50	12.90	QP
5	191.9900	8.86	1.26	21.63	31.75	43.50	11.75	QP
6	679.9000	21.70	3.23	1.29	26.22	46.00	19.78	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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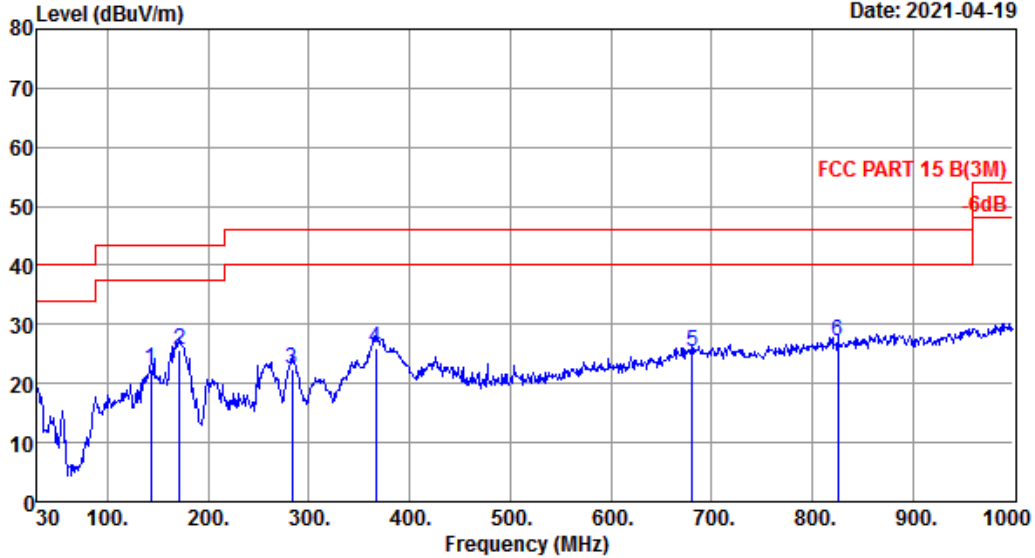
Site no. : site Data no. : 14
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.2°C;Humi:47%;Press:101.5kPa
 Engineer : Pluto
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PS5
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	54.2500	6.60	0.34	11.62	18.56	40.00	21.44	QP
2	131.8500	11.66	0.99	15.08	27.73	43.50	15.77	QP
3	159.9800	11.30	1.14	24.95	37.39	43.50	6.11	QP
4	191.9900	8.86	1.26	16.21	26.33	43.50	17.17	QP
5	282.2000	12.72	1.76	7.84	22.32	46.00	23.68	QP
6	687.6600	21.62	3.21	0.93	25.76	46.00	20.24	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 25 File: \\EMC-966-1\test data\2021\RF\Y\Yierkeji.EM6 (36)

Date: 2021-04-19



Site no. : 1# 966 Chamber Data no. : 25
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.3°C Humi:52.8%; Press:101.92KPa
 Engineer : HZJ
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 142.5200	12.10	1.05	9.17	22.32	43.50	21.18	QP
2 171.6200	9.74	1.19	14.89	25.82	43.50	17.68	QP
3 283.1700	12.88	1.78	7.85	22.51	46.00	23.49	QP
4 366.5900	15.33	2.15	8.57	26.05	46.00	19.95	QP
5 680.8700	21.69	3.22	0.54	25.45	46.00	20.55	QP
6 825.4000	23.35	3.71	0.18	27.24	46.00	18.76	QP

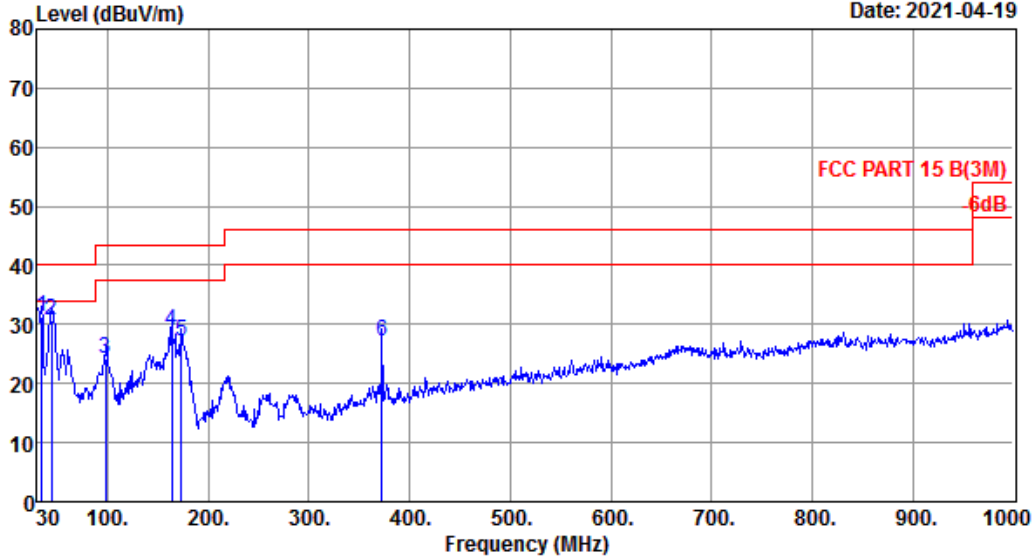
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 26 File: \\EMC-966-1\test data\2021\RF\YYierkeji.EM6 (36)

Date: 2021-04-19



Site no. : 1# 966 Chamber Data no. : 26
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.3°C Humi:52.8%; Press:101.92KPa
 Engineer : HZJ
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

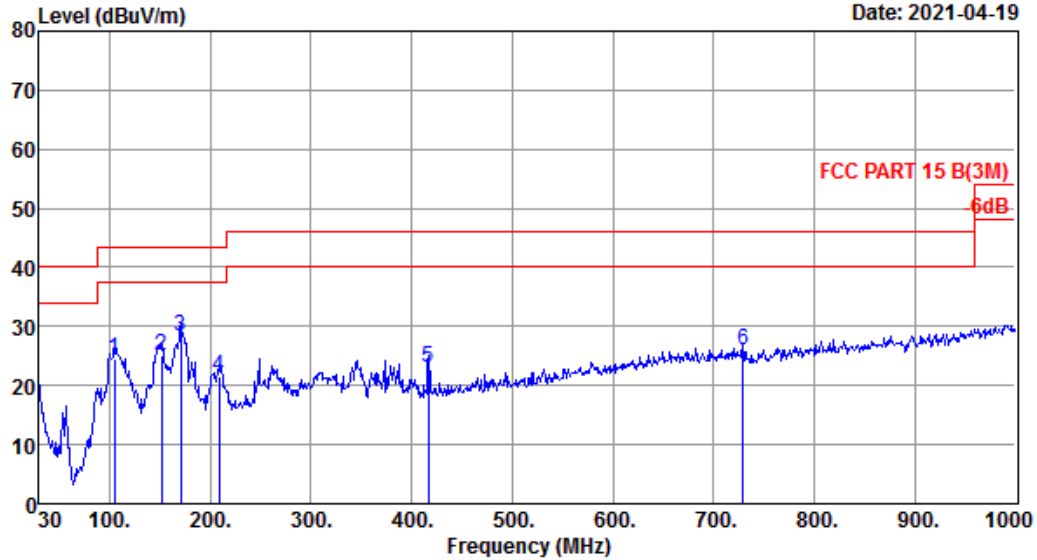
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	14.95	0.19	16.03	31.17	40.00	8.83	QP
2	44.5500	10.15	0.25	20.43	30.83	40.00	9.17	QP
3	97.9000	9.62	0.84	13.82	24.28	43.50	19.22	QP
4	163.8600	10.66	1.16	17.05	28.87	43.50	14.63	QP
5	173.5600	9.78	1.19	16.13	27.10	43.50	16.40	QP
6	372.4100	15.48	2.17	9.61	27.26	46.00	18.74	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 27 File: \\EMC-966-1\test data\2021\RF\YYierkeji.EM6 (36) Date: 2021-04-19



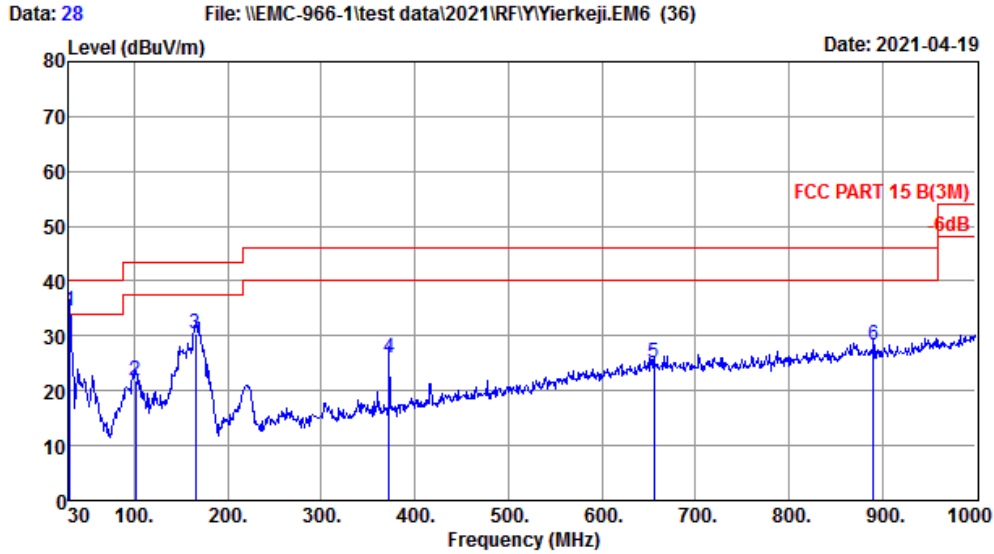
Site no. : 1# 966 Chamber Data no. : 27
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.3°C Humi:52.8%; Press:101.92KPa
 Engineer : HZJ
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 104.6900	10.20	0.90	13.43	24.53	43.50	18.97	QP
2 151.2500	11.54	1.09	12.52	25.15	43.50	18.35	QP
3 170.6500	9.72	1.19	17.53	28.44	43.50	15.06	QP
4 208.4800	8.67	1.35	11.51	21.53	43.50	21.97	QP
5 417.0300	16.61	2.19	4.17	22.97	46.00	23.03	QP
6 729.3700	21.70	3.55	0.68	25.93	46.00	20.07	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 28
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:26.3°C Humi:52.8%; Press:101.92KPa
 Engineer : HZJ
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	17.60	0.14	16.84	34.58	40.00	5.42	QP
2	101.7800	9.90	0.87	10.98	21.75	43.50	21.75	QP
3	165.8000	10.34	1.17	19.04	30.55	43.50	12.95	QP
4	372.4100	15.48	2.17	8.33	25.98	46.00	20.02	QP
5	655.6500	21.52	3.23	0.23	24.98	46.00	21.02	QP
6	890.3900	23.90	3.87	0.49	28.26	46.00	17.74	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only the worst case was reported.



4. AC POWER LINE CONDUCTED EMISSIONS

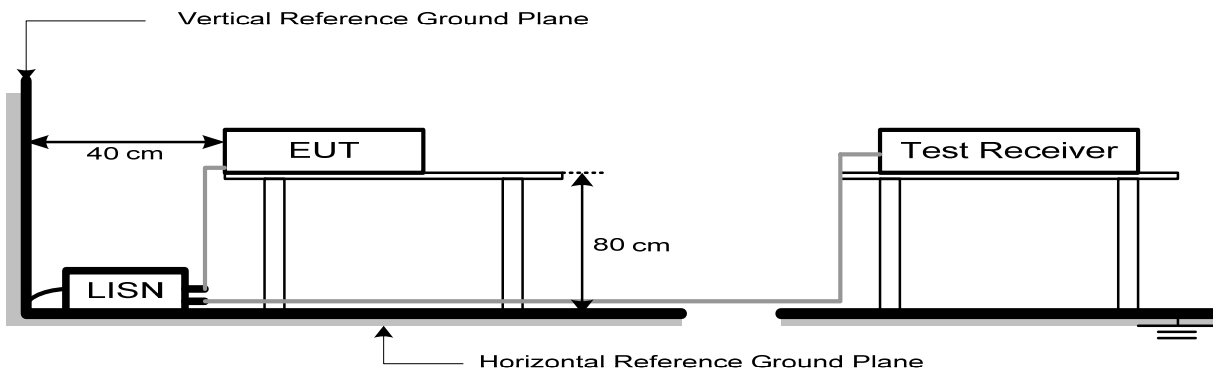
4.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

4.4. Test Procedure

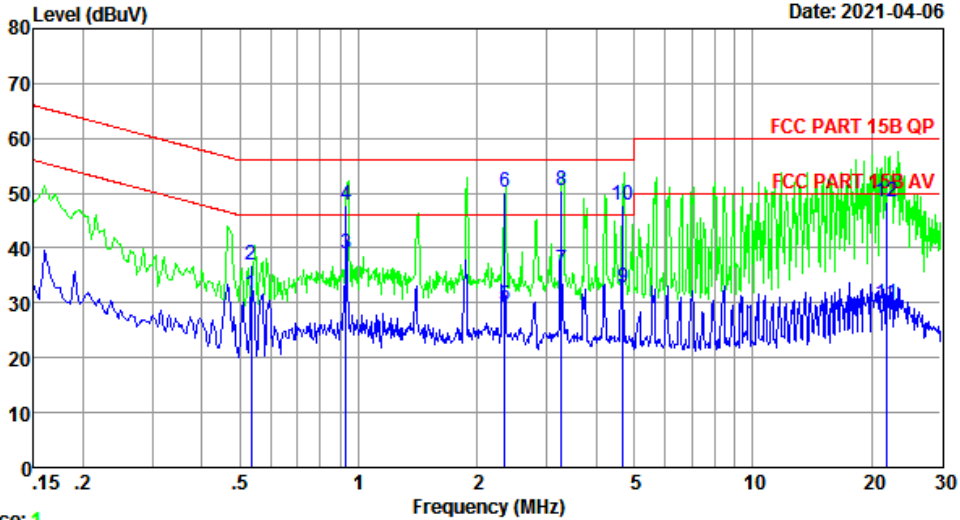
- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

4.5. Test Result

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Data: 2 File: \\Emc-ce-2\test data\2021\RF\Yiyiertek.EM6 (48) Date: 2021-04-06



Trace: 1
 Site no : 2#CE Shield Room Data no. : 2
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSB0-513PS5
 Test Mode : TX Mode
 PS100A050K2000UU

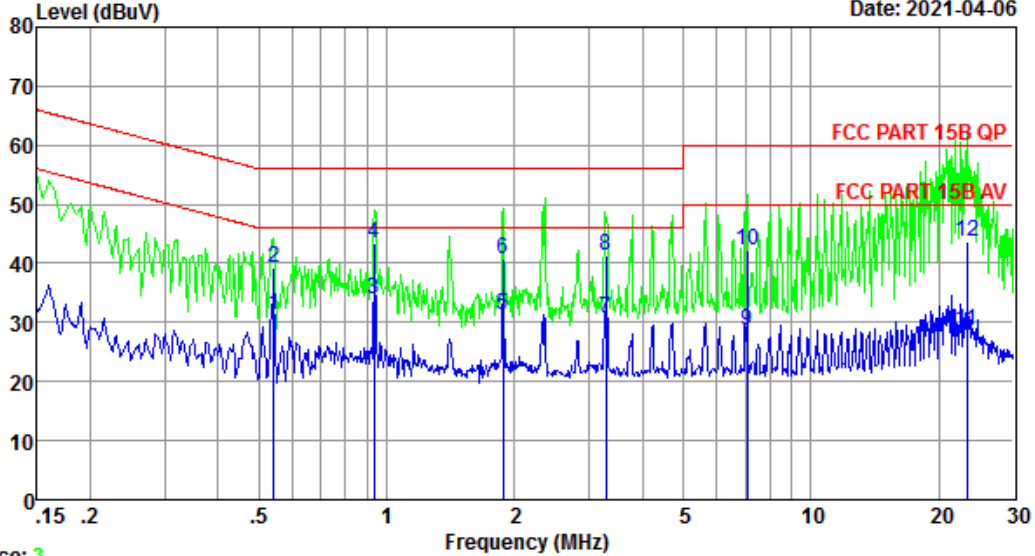
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5350	9.70	9.92	12.02	31.64	46.00	14.36	Average
2	0.5350	9.70	9.92	17.32	36.94	56.00	19.06	QP
3	0.9282	9.75	9.94	19.28	38.97	46.00	7.03	Average
4	0.9282	9.75	9.94	28.14	47.83	56.00	8.17	QP
5	2.3460	9.83	9.96	9.68	29.47	46.00	16.53	Average
6	2.3460	9.83	9.96	30.50	50.29	56.00	5.71	QP
7	3.2756	9.91	9.98	16.14	36.03	46.00	9.97	Average
8	3.2756	9.91	9.98	30.62	50.51	56.00	5.49	QP
9	4.6964	9.93	10.00	12.73	32.66	46.00	13.34	Average
10	4.6964	9.93	10.00	27.96	47.89	56.00	8.11	QP
11	21.8303	9.99	10.16	9.64	29.79	50.00	20.21	Average
12	21.8303	9.99	10.16	28.40	48.55	60.00	11.45	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 4 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (16) Date: 2021-04-06



Trace: 3
 Site no : 2#CE Shield Room Data no. : 4
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 PS10UA050K2000UU

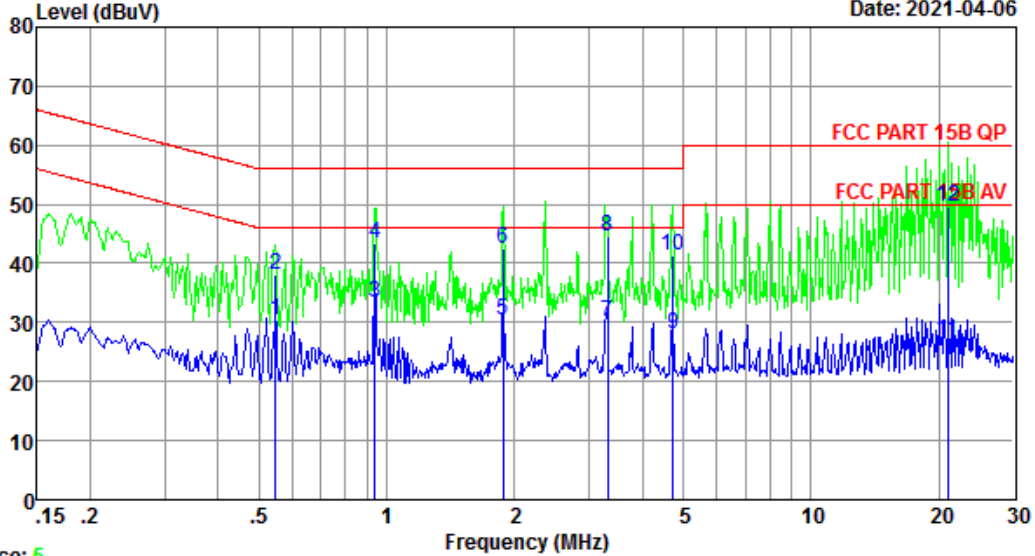
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5407	9.80	9.92	11.70	31.42	46.00	14.58	Average
2	0.5407	9.80	9.92	19.47	39.19	56.00	16.81	QP
3	0.9331	9.88	9.94	13.99	33.81	46.00	12.19	Average
4	0.9331	9.88	9.94	23.68	43.50	56.00	12.50	QP
5	1.8779	9.85	9.96	11.38	31.19	46.00	14.81	Average
6	1.8779	9.85	9.96	20.96	40.77	56.00	15.23	QP
7	3.2930	9.90	9.98	10.71	30.59	46.00	15.41	Average
8	3.2930	9.90	9.98	21.47	41.35	56.00	14.65	QP
9	7.0622	10.45	10.04	8.11	28.60	50.00	21.40	Average
10	7.0622	10.45	10.04	21.64	42.13	60.00	17.87	QP
11	23.2633	10.01	10.17	8.54	28.72	50.00	21.28	Average
12	23.2633	10.01	10.17	23.40	43.58	60.00	16.42	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 6 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (16) Date: 2021-04-06

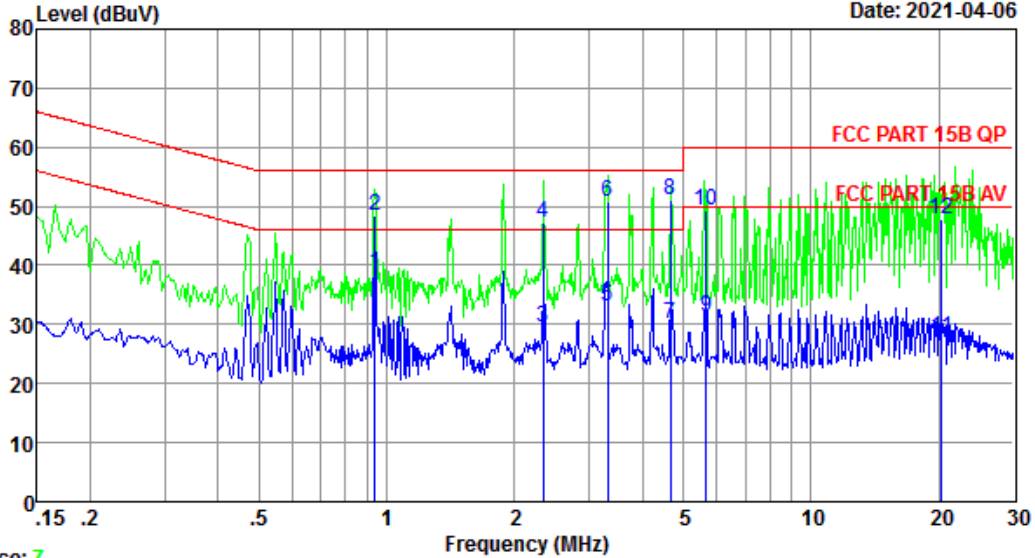


Trace: 5
 Site no : 2#CE Shield Room Data no. : 6
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5464	9.80	9.92	10.79	30.51	46.00	15.49	Average
2	0.5464	9.80	9.92	18.47	38.19	56.00	17.81	QP
3	0.9381	9.88	9.94	13.61	33.43	46.00	12.57	Average
4	0.9381	9.88	9.94	23.64	43.46	56.00	12.54	QP
5	1.8779	9.85	9.96	10.56	30.37	46.00	15.63	Average
6	1.8779	9.85	9.96	22.63	42.44	56.00	13.56	QP
7	3.3105	9.91	9.98	10.26	30.15	46.00	15.85	Average
8	3.3105	9.91	9.98	24.67	44.56	56.00	11.44	QP
9	4.7213	10.04	10.00	7.86	27.90	46.00	18.10	Average
10	4.7213	10.04	10.00	21.38	41.42	56.00	14.58	QP
11	21.0355	10.02	10.16	6.59	26.77	50.00	23.23	Average
12	21.0355	10.02	10.16	29.49	49.67	60.00	10.33	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 8 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (16) Date: 2021-04-06



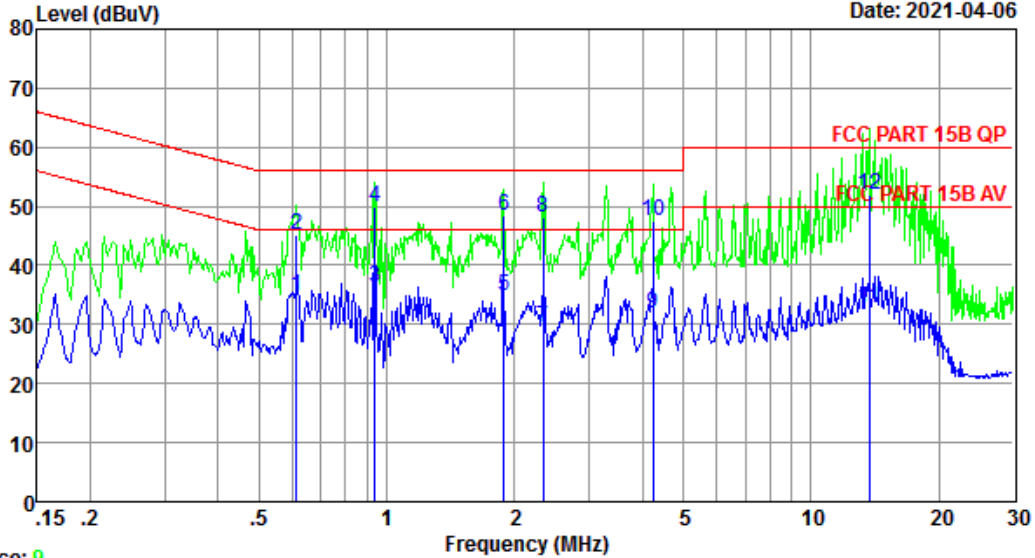
Trace: 7
 Site no : 2#CE Shield Room Data no. : 8
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9381	9.75	9.94	18.96	38.65	46.00	7.35	Average
2	0.9381	9.75	9.94	28.64	48.33	56.00	7.67	QP
3	2.3336	9.83	9.96	9.64	29.43	46.00	16.57	Average
4	2.3336	9.83	9.96	27.40	47.19	56.00	8.81	QP
5	3.3105	9.91	9.98	13.14	33.03	46.00	12.97	Average
6	3.3105	9.91	9.98	31.00	50.89	56.00	5.11	QP
7	4.6715	9.93	10.00	10.24	30.17	46.00	15.83	Average
8	4.6715	9.93	10.00	31.09	51.02	56.00	4.98	QP
9	5.6532	9.81	10.01	11.55	31.37	50.00	18.63	Average
10	5.6532	9.81	10.01	29.59	49.41	60.00	10.59	QP
11	20.2696	9.98	10.15	7.72	27.85	50.00	22.15	Average
12	20.2696	9.98	10.15	27.68	47.81	60.00	12.19	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 10 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (16)

Date: 2021-04-06



Trace: 9

Site no : 2#CE Shield Room Data no. : 10
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 GQ12-050200-ZU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.6140	9.71	9.92	15.14	34.77	46.00	11.23	Average
2	0.6140	9.71	9.92	25.68	45.31	56.00	10.69	QP
3	0.9381	9.75	9.94	16.68	36.37	46.00	9.63	Average
4	0.9381	9.75	9.94	30.30	49.99	56.00	6.01	QP
5	1.8879	9.79	9.96	15.14	34.89	46.00	11.11	Average
6	1.8879	9.79	9.96	28.76	48.51	56.00	7.49	QP
7	2.3336	9.83	9.96	9.61	29.40	46.00	16.60	Average
8	2.3336	9.83	9.96	28.20	47.99	56.00	8.01	QP
9	4.2466	9.92	9.99	11.96	31.87	46.00	14.13	Average
10	4.2466	9.92	9.99	27.71	47.62	56.00	8.38	QP
11	13.6952	10.04	10.11	12.65	32.80	50.00	17.20	Average
12	13.6952	10.04	10.11	31.81	51.96	60.00	8.04	QP

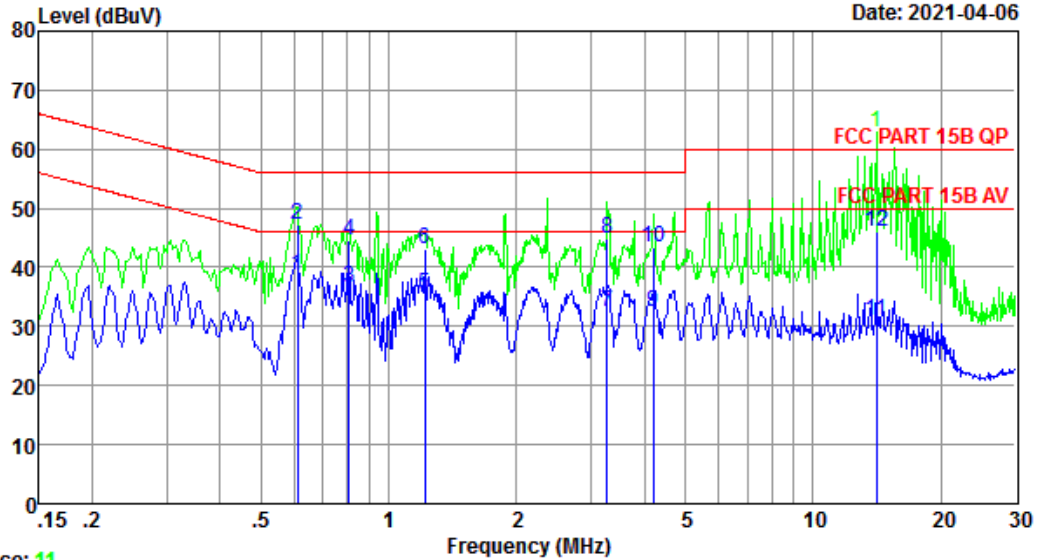
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 12 File: \\EMC-CE-2\Test Data\2021\RF\Yier\Yier\tek.EM6 (16)

Date: 2021-04-06



Trace: 11

Site no : 2#CE Shield Room Data no. : 12
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 GQ12-050200-ZU

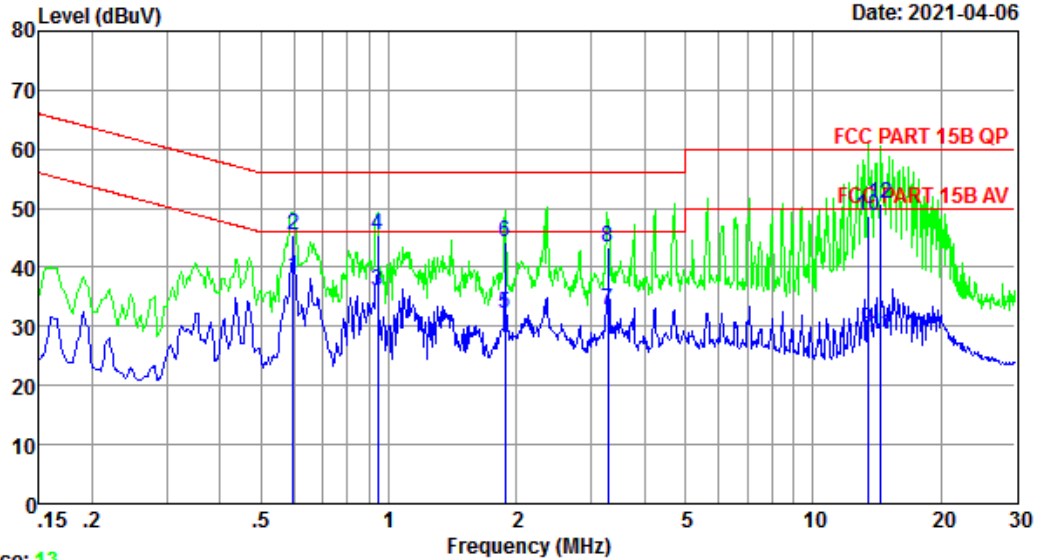
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.6108	9.81	9.92	18.80	38.53	46.00	7.47	Average
2	0.6108	9.81	9.92	27.47	47.20	56.00	8.80	QP
3	0.8045	9.86	9.93	16.89	36.68	46.00	9.32	Average
4	0.8045	9.86	9.93	24.64	44.43	56.00	11.57	QP
5	1.2162	9.88	9.94	15.68	35.50	46.00	10.50	Average
6	1.2162	9.88	9.94	23.28	43.10	56.00	12.90	QP
7	3.2756	9.90	9.98	12.66	32.54	46.00	13.46	Average
8	3.2756	9.90	9.98	24.96	44.84	56.00	11.16	QP
9	4.2018	9.99	9.99	12.54	32.52	46.00	13.48	Average
10	4.2018	9.99	9.99	23.47	43.45	56.00	12.55	QP
11	14.1376	9.91	10.11	10.96	30.98	50.00	19.02	Average
12	14.1376	9.91	10.11	26.00	46.02	60.00	13.98	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 14 File: \\EMC-CE-2\Test Data\2021\RF\Yiertek.EM6 (16) Date: 2021-04-06



Trace: 13
 Site no : 2#CE Shield Room Data no. : 14
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 GQ12-050200-ZU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5948	9.81	9.92	18.56	38.29	46.00	7.71	Average
2	0.5948	9.81	9.92	25.64	45.37	56.00	10.63	QP
3	0.9431	9.88	9.94	16.10	35.92	46.00	10.08	Average
4	0.9431	9.88	9.94	25.64	45.46	56.00	10.54	QP
5	1.8779	9.85	9.96	12.41	32.22	46.00	13.78	Average
6	1.8779	9.85	9.96	24.36	44.17	56.00	11.83	QP
7	3.2930	9.90	9.98	12.82	32.70	46.00	13.30	Average
8	3.2930	9.90	9.98	23.62	43.50	56.00	12.50	QP
9	13.4793	9.86	10.10	9.59	29.55	50.00	20.45	Average
10	13.4793	9.86	10.10	28.80	48.76	60.00	11.24	QP
11	14.4404	9.94	10.12	8.66	28.72	50.00	21.28	Average
12	14.4404	9.94	10.12	30.79	50.85	60.00	9.15	QP

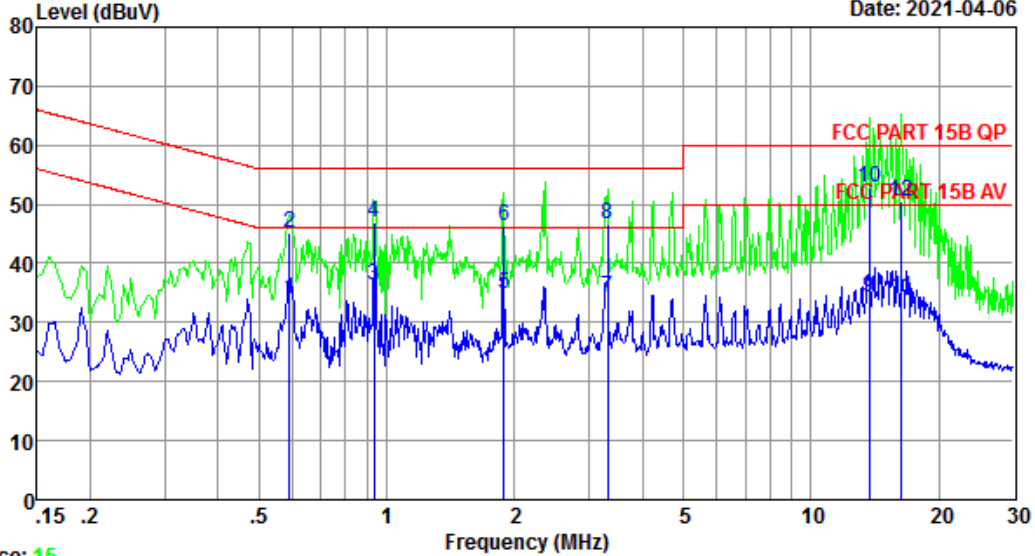
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 16 File: \\EMC-CE-2\Test Data\2021\RFI\Yiertek.EM6 (16)

Date: 2021-04-06



Trace: 15

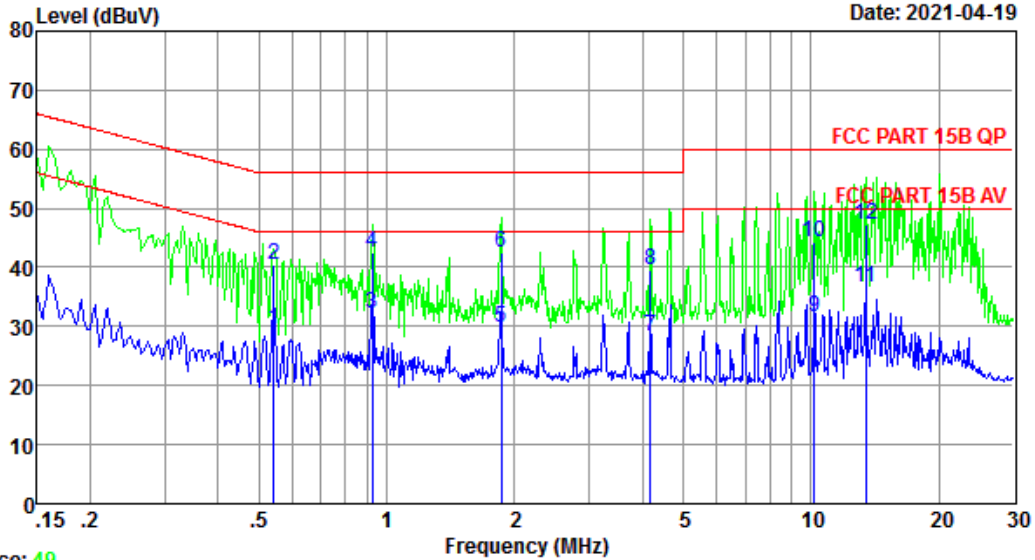
Site no : 2#CE Shield Room Data no. : 16
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-513PSS
 Test Mode : TX Mode
 GQ12-050200-ZU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5885	9.70	9.92	14.46	34.08	46.00	11.92	Average
2	0.5885	9.70	9.92	25.56	45.18	56.00	10.82	QP
3	0.9331	9.75	9.94	16.61	36.30	46.00	9.70	Average
4	0.9331	9.75	9.94	27.17	46.86	56.00	9.14	QP
5	1.8879	9.79	9.96	15.17	34.92	46.00	11.08	Average
6	1.8879	9.79	9.96	26.64	46.39	56.00	9.61	QP
7	3.3105	9.91	9.98	14.34	34.23	46.00	11.77	Average
8	3.3105	9.91	9.98	26.68	46.57	56.00	9.43	QP
9	13.6952	10.04	10.11	14.15	34.30	50.00	15.70	Average
10	13.6952	10.04	10.11	32.81	52.96	60.00	7.04	QP
11	16.3118	10.08	10.13	14.16	34.37	50.00	15.63	Average
12	16.3118	10.08	10.13	30.39	50.60	60.00	9.40	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Data: 50 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (64) Date: 2021-04-19

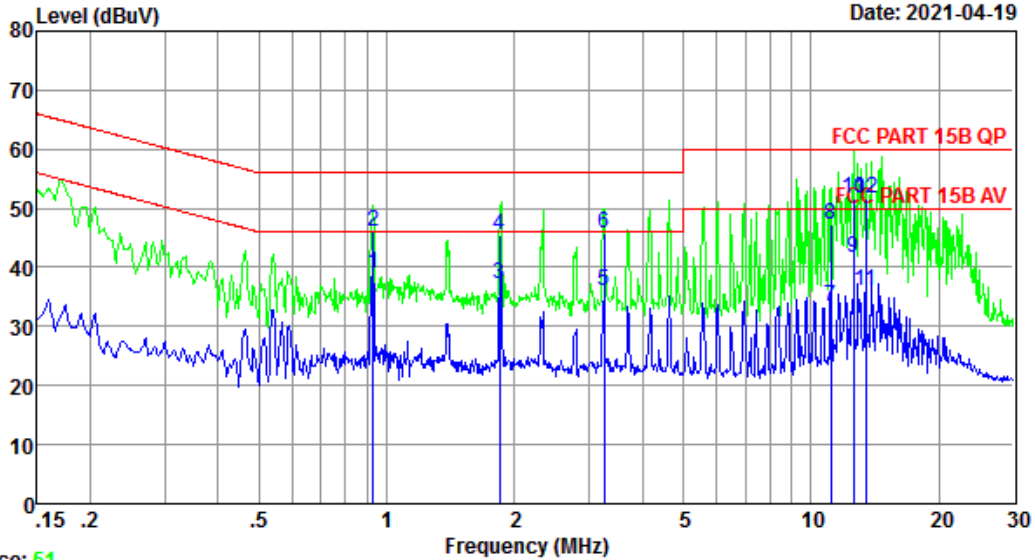


Trace: 49
 Site no : 2#CE Shield Room Data no. : 50
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5407	9.80	9.92	9.88	29.60	46.00	16.40	Average
2	0.5407	9.80	9.92	20.62	40.34	56.00	15.66	QP
3	0.9233	9.88	9.94	12.50	32.32	46.00	13.68	Average
4	0.9233	9.88	9.94	22.64	42.46	56.00	13.54	QP
5	1.8581	9.85	9.96	10.01	29.82	46.00	16.18	Average
6	1.8581	9.85	9.96	22.63	42.44	56.00	13.56	QP
7	4.1796	9.99	9.99	8.32	28.30	46.00	17.70	Average
8	4.1796	9.99	9.99	19.67	39.65	56.00	16.35	QP
9	10.1791	9.60	10.07	11.88	31.55	50.00	18.45	Average
10	10.1791	9.60	10.07	24.64	44.31	60.00	15.69	QP
11	13.4793	9.86	10.10	16.75	36.71	50.00	13.29	Average
12	13.4793	9.86	10.10	27.34	47.30	60.00	12.70	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 52 File: \\EMC-CE-2\Test Data\2021\RF\Yiyiertek.EM6 (64) Date: 2021-04-19

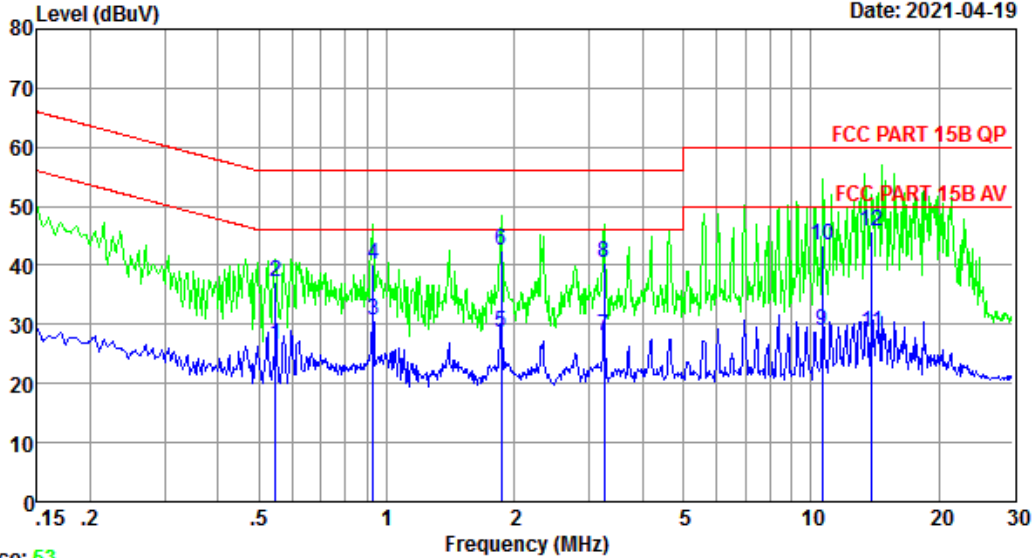


Trace: 51
 Site no : 2#CE Shield Room Data no. : 52
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9282	9.75	9.94	19.39	39.08	46.00	6.92	Average
2	0.9282	9.75	9.94	26.30	45.99	56.00	10.01	QP
3	1.8483	9.79	9.95	17.32	37.06	46.00	8.94	Average
4	1.8483	9.79	9.95	25.64	45.38	56.00	10.62	QP
5	3.2583	9.91	9.98	16.16	36.05	46.00	9.95	Average
6	3.2583	9.91	9.98	25.94	45.83	56.00	10.17	QP
7	11.1386	9.91	10.08	13.50	33.49	50.00	16.51	Average
8	11.1386	9.91	10.08	27.37	47.36	60.00	12.64	QP
9	12.5821	9.98	10.10	21.59	41.67	50.00	8.33	Average
10	12.5821	9.98	10.10	31.60	51.68	60.00	8.32	QP
11	13.4793	10.03	10.10	15.92	36.05	50.00	13.95	Average
12	13.4793	10.03	10.10	31.64	51.77	60.00	8.23	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 54 File: \\EMC-CE-2\Test Data\2021\RF\Yiertek.EM6 (64) Date: 2021-04-19

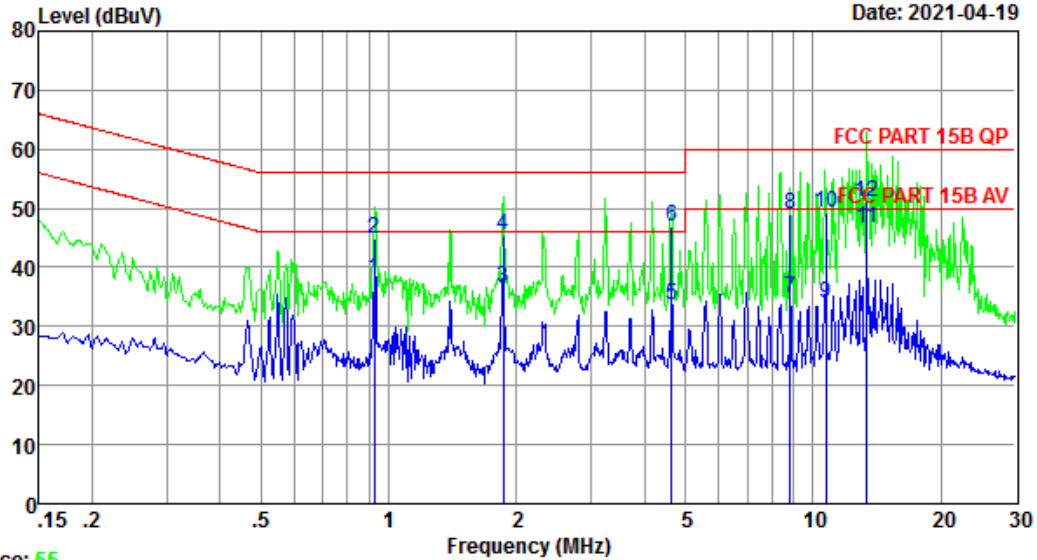


Trace: 53
 Site no : 2#CE Shield Room Data no. : 54
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.5464	9.80	9.92	6.80	26.52	46.00	19.48	Average
2	0.5464	9.80	9.92	17.62	37.34	56.00	18.66	QP
3	0.9282	9.88	9.94	10.89	30.71	46.00	15.29	Average
4	0.9282	9.88	9.94	20.45	40.27	56.00	15.73	QP
5	1.8581	9.85	9.96	8.75	28.56	46.00	17.44	Average
6	1.8581	9.85	9.96	22.63	42.44	56.00	13.56	QP
7	3.2583	9.90	9.98	8.17	28.05	46.00	17.95	Average
8	3.2583	9.90	9.98	20.68	40.56	56.00	15.44	QP
9	10.6199	9.64	10.08	9.16	28.88	50.00	21.12	Average
10	10.6199	9.64	10.08	23.60	43.32	60.00	16.68	QP
11	13.9146	9.90	10.11	8.61	28.62	50.00	21.38	Average
12	13.9146	9.90	10.11	25.69	45.70	60.00	14.30	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 56 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (64) Date: 2021-04-19



Trace: 55
 Site no : 2#CE Shield Room Data no. : 56
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 PS10UA050K2000UU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9233	9.74	9.94	18.46	38.14	46.00	7.86	Average
2	0.9233	9.74	9.94	25.05	44.73	56.00	11.27	QP
3	1.8581	9.79	9.96	16.90	36.65	46.00	9.35	Average
4	1.8581	9.79	9.96	25.63	45.38	56.00	10.62	QP
5	4.6469	9.93	10.00	13.68	33.61	46.00	12.39	Average
6	4.6469	9.93	10.00	26.93	46.86	56.00	9.14	QP
7	8.8223	9.73	10.06	14.99	34.78	50.00	15.22	Average
8	8.8223	9.73	10.06	29.08	48.87	60.00	11.13	QP
9	10.7330	9.89	10.08	14.11	34.08	50.00	15.92	Average
10	10.7330	9.89	10.08	29.35	49.32	60.00	10.68	QP
11	13.4080	10.03	10.11	26.63	46.77	50.00	3.23	Average
12	13.4080	10.03	10.11	30.99	51.13	60.00	8.87	QP

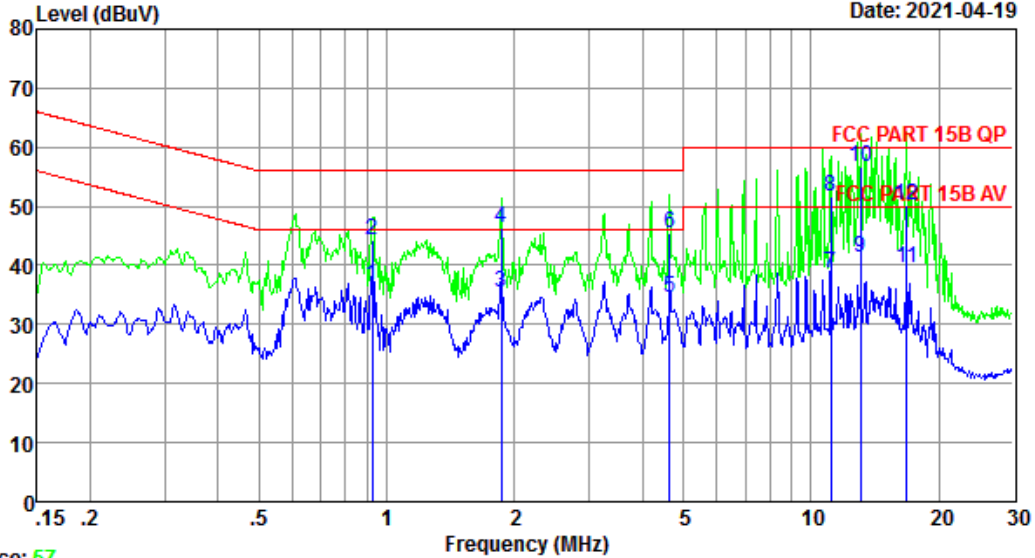
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 58 File: \\EMC-CE-2\Test Data\2021\RF\Y\Yiertek.EM6 (64)

Date: 2021-04-19



Trace: 57

Site no : 2#CE Shield Room Data no. : 58
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9233	9.74	9.94	17.00	36.68	46.00	9.32	Average
2	0.9233	9.74	9.94	24.47	44.15	56.00	11.85	QP
3	1.8581	9.79	9.96	15.81	35.56	46.00	10.44	Average
4	1.8581	9.79	9.96	26.66	46.41	56.00	9.59	QP
5	4.6469	9.93	10.00	14.62	34.55	46.00	11.45	Average
6	4.6469	9.93	10.00	25.67	45.60	56.00	10.40	QP
7	11.1386	9.91	10.08	18.63	38.62	50.00	11.38	Average
8	11.1386	9.91	10.08	31.62	51.61	60.00	8.39	QP
9	13.0575	10.01	10.10	21.20	41.31	50.00	8.69	Average
10	13.0575	10.01	10.10	36.50	56.61	60.00	3.39	QP
11	16.8387	10.06	10.14	19.29	39.49	50.00	10.51	Average
12	16.8387	10.06	10.14	29.96	50.16	60.00	9.84	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

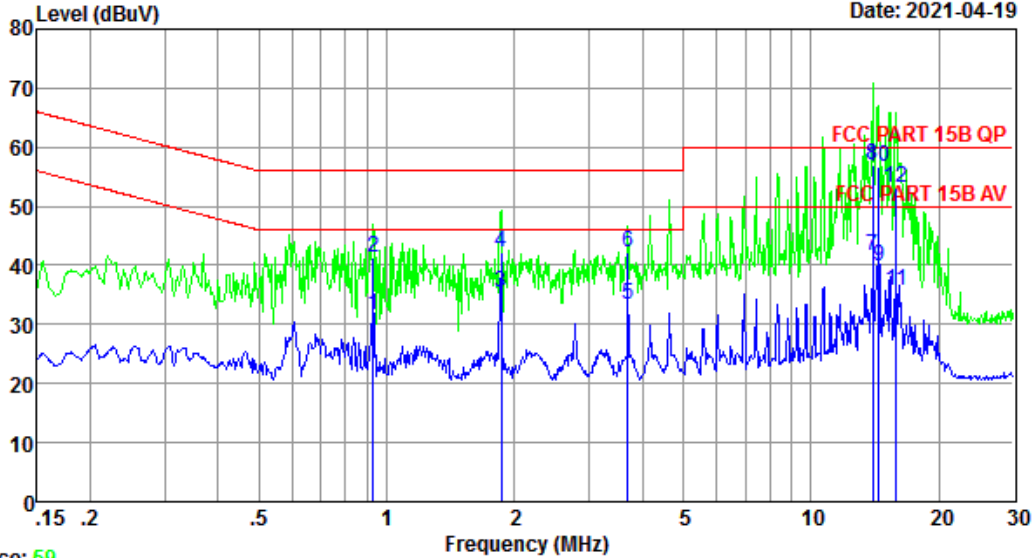


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Data: 60 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (64)

Date: 2021-04-19



Trace: 59

Site no : 2#CE Shield Room Data no. : 60
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 240V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

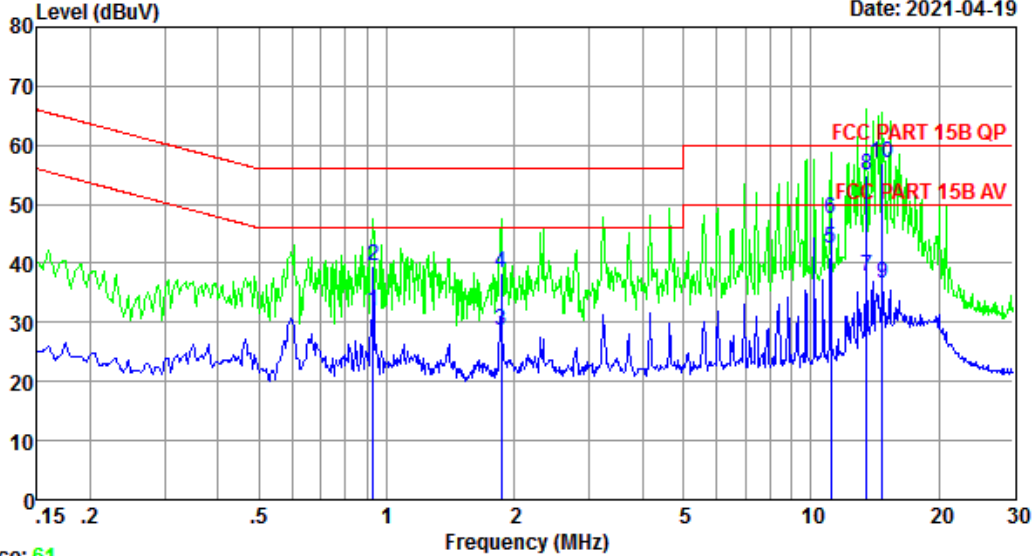
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9282	9.88	9.94	11.76	31.58	46.00	14.42	Average
2	0.9282	9.88	9.94	21.62	41.44	56.00	14.56	QP
3	1.8581	9.85	9.96	15.71	35.52	46.00	10.48	Average
4	1.8581	9.85	9.96	22.27	42.08	56.00	13.92	QP
5	3.7001	9.94	9.99	13.49	33.42	46.00	12.58	Average
6	3.7001	9.94	9.99	22.37	42.30	56.00	13.70	QP
7	13.9886	9.90	10.11	21.59	41.60	50.00	8.40	Average
8	13.9886	9.90	10.11	37.00	57.01	60.00	2.99	QP
9	14.4404	9.94	10.12	19.78	39.84	50.00	10.16	Average
10	14.4404	9.94	10.12	36.63	56.69	60.00	3.31	QP
11	15.8854	9.99	10.13	15.45	35.57	50.00	14.43	Average
12	15.8854	9.99	10.13	32.97	53.09	60.00	6.91	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 62 File: \\EMC-CE-2\Test Data\2021\RF\Yier\tek.EM6 (64) Date: 2021-04-19



Trace: 61
 Site no : 2#CE Shield Room Data no. : 62
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

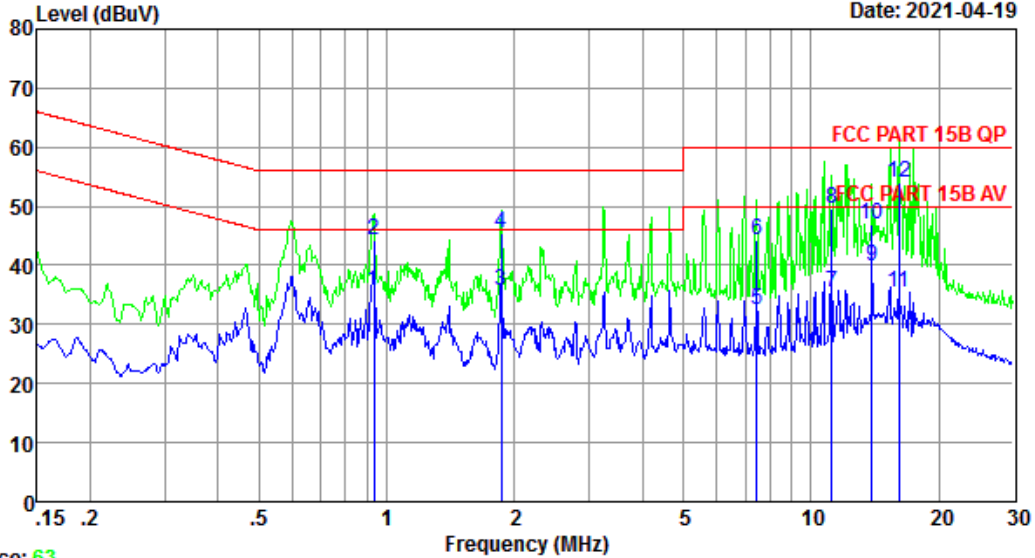
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9282	9.88	9.94	12.06	31.88	46.00	14.12	Average
2	0.9282	9.88	9.94	19.64	39.46	56.00	16.54	QP
3	1.8581	9.85	9.96	8.91	28.72	46.00	17.28	Average
4	1.8581	9.85	9.96	18.68	38.49	56.00	17.51	QP
5	11.1386	9.68	10.08	22.84	42.60	50.00	7.40	Average
6	11.1386	9.68	10.08	27.64	47.40	60.00	12.60	QP
7	13.5509	9.87	10.11	17.66	37.64	50.00	12.36	Average
8	13.5509	9.87	10.11	34.89	54.87	60.00	5.13	QP
9	14.7497	9.96	10.12	16.58	36.66	50.00	13.34	Average
10	14.7497	9.96	10.12	36.80	56.88	60.00	3.12	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 64 File: \\EMC-CE-2\Test Data\2021\RF\Yiertek.EM6 (64) Date: 2021-04-19



Trace: 63
 Site no : 2#CE Shield Room Data no. : 64
 Env. / Ins. : Temp:22.8°C Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : Bluetooth Rock Speakers
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ITSBO-L513
 Test Mode : TX Mode
 GQ12-050200-ZU

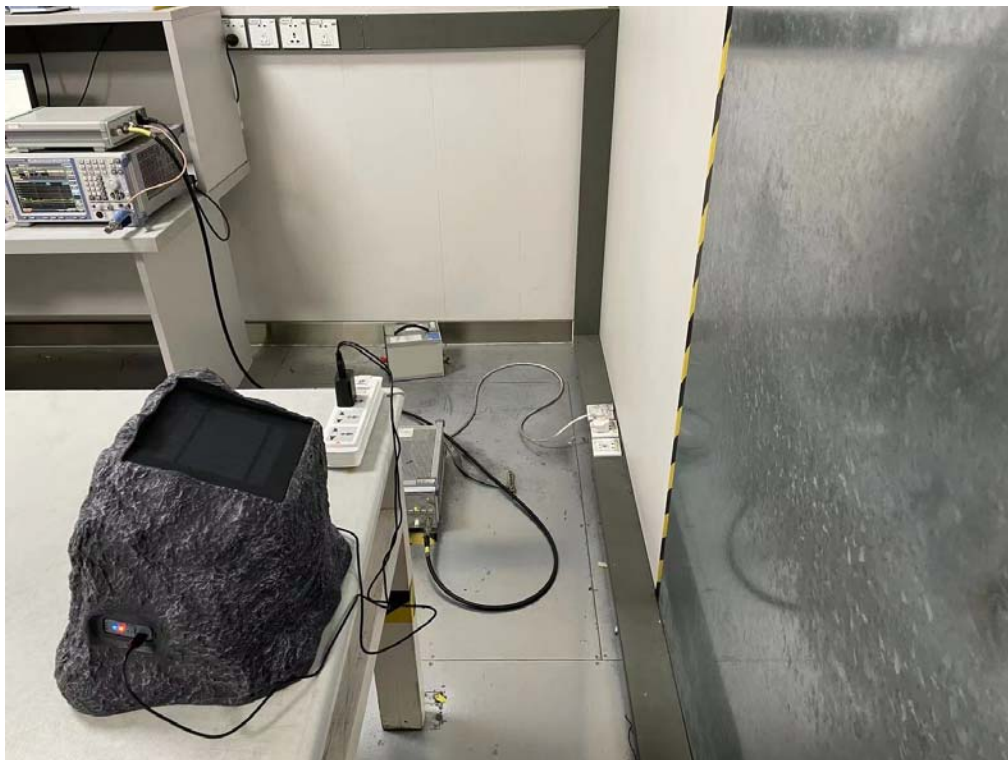
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.9331	9.75	9.94	15.99	35.68	46.00	10.32	Average
2	0.9331	9.75	9.94	24.64	44.33	56.00	11.67	QP
3	1.8581	9.79	9.96	15.91	35.66	46.00	10.34	Average
4	1.8581	9.79	9.96	25.63	45.38	56.00	10.62	QP
5	7.4465	9.60	10.04	12.78	32.42	50.00	17.58	Average
6	7.4465	9.60	10.04	24.63	44.27	60.00	15.73	QP
7	11.1977	9.91	10.08	15.54	35.53	50.00	14.47	Average
8	11.1977	9.91	10.08	29.70	49.69	60.00	10.31	QP
9	13.9146	10.05	10.11	19.71	39.87	50.00	10.13	Average
10	13.9146	10.05	10.11	26.70	46.86	60.00	13.14	QP
11	16.1399	10.08	10.14	15.17	35.39	50.00	14.61	Average
12	16.1399	10.08	10.14	33.90	54.12	60.00	5.88	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin=Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

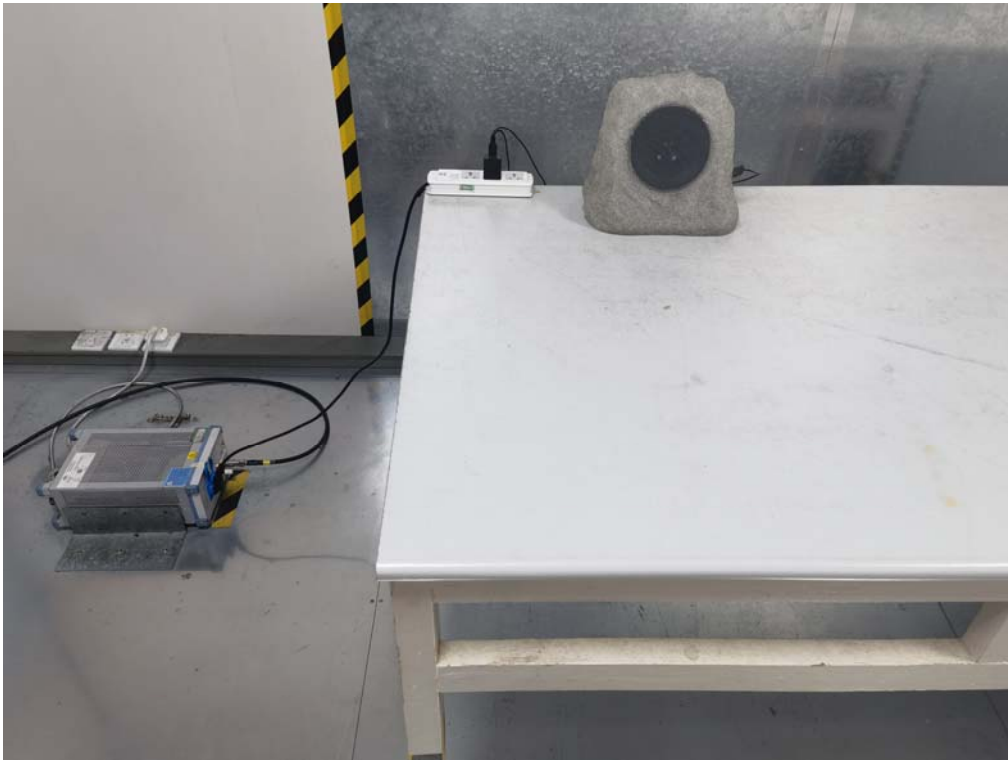


5. TEST SETUP PHOTO

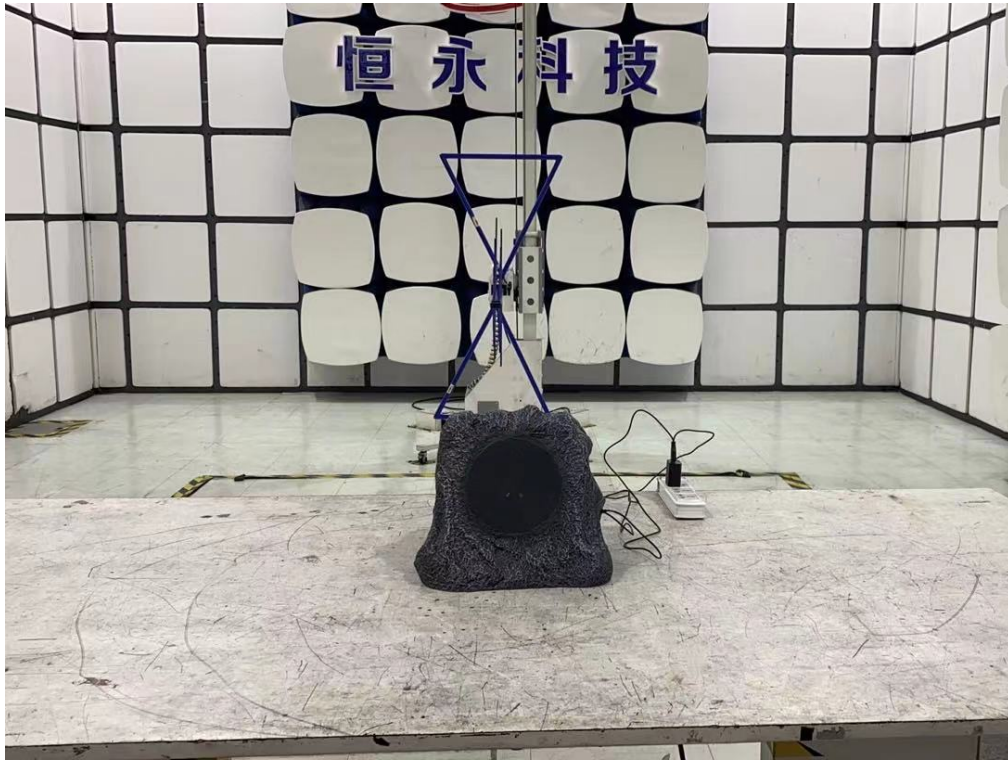
Conducted Test
M/N: ITSBO-513PS5



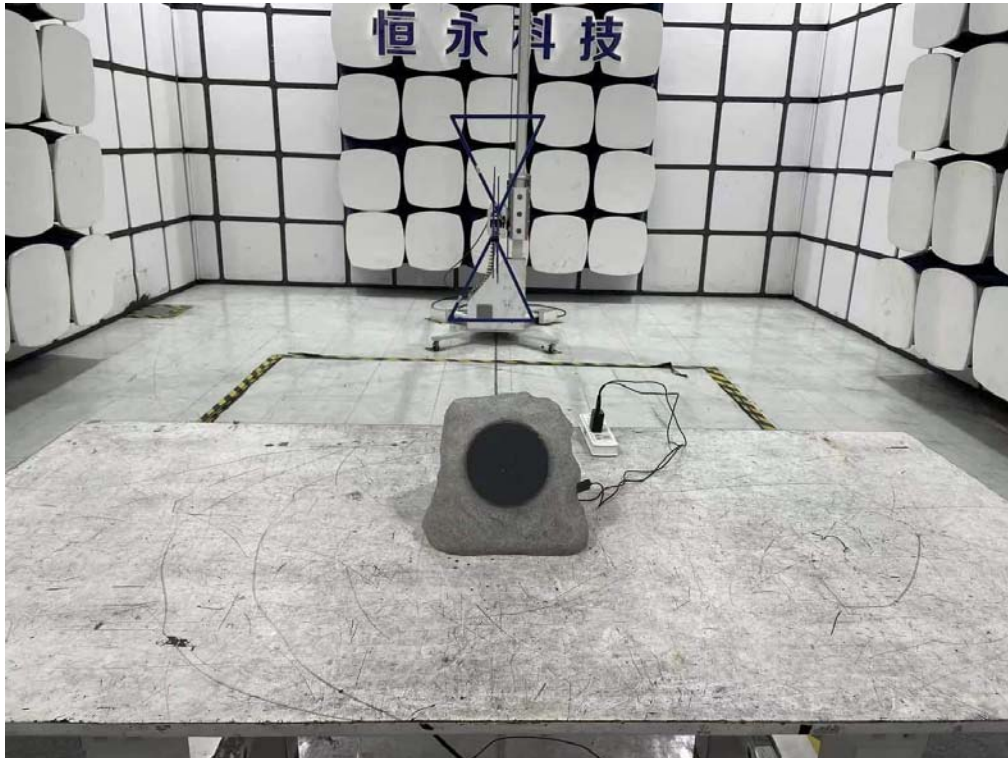
M/N: ITSBO-L513



Radiated Test (Below 1GHz)
M/N: ITSBO-513PS5

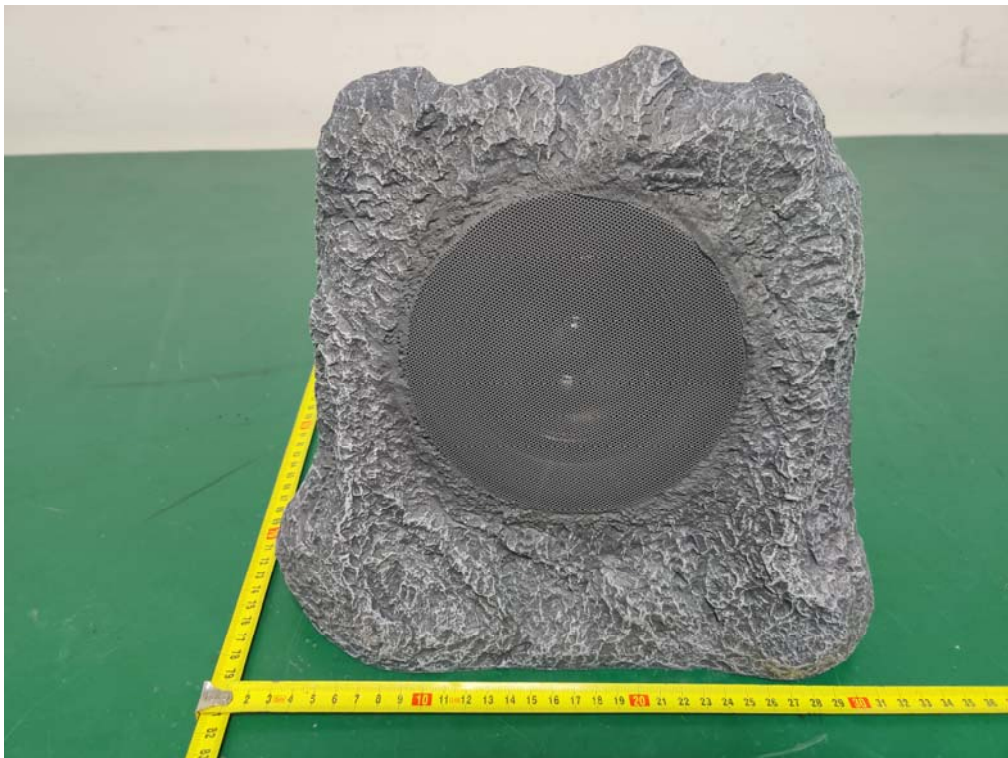


M/N: ITSBO-L513



6. EUT PHOTO

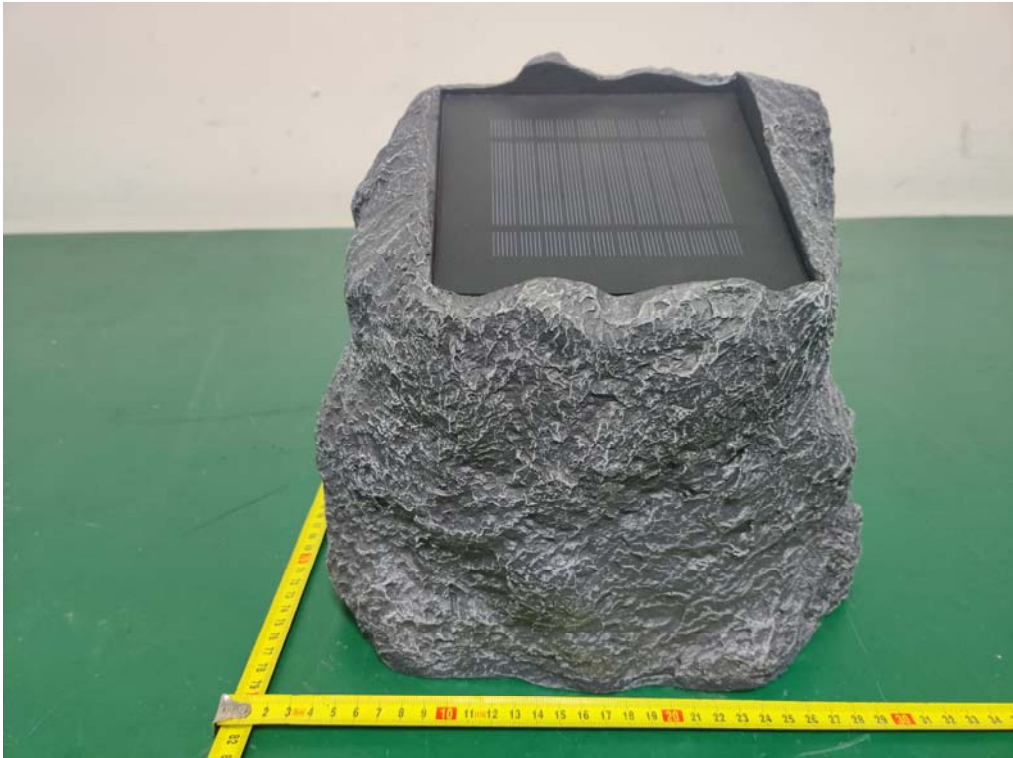
External Photos
M/N: ITSBO-513PS5



External Photos
M/N: ITSBO-513PS5



External Photos
M/N: ITSBO-513PS5



External Photos
M/N: ITSBO-513PS5



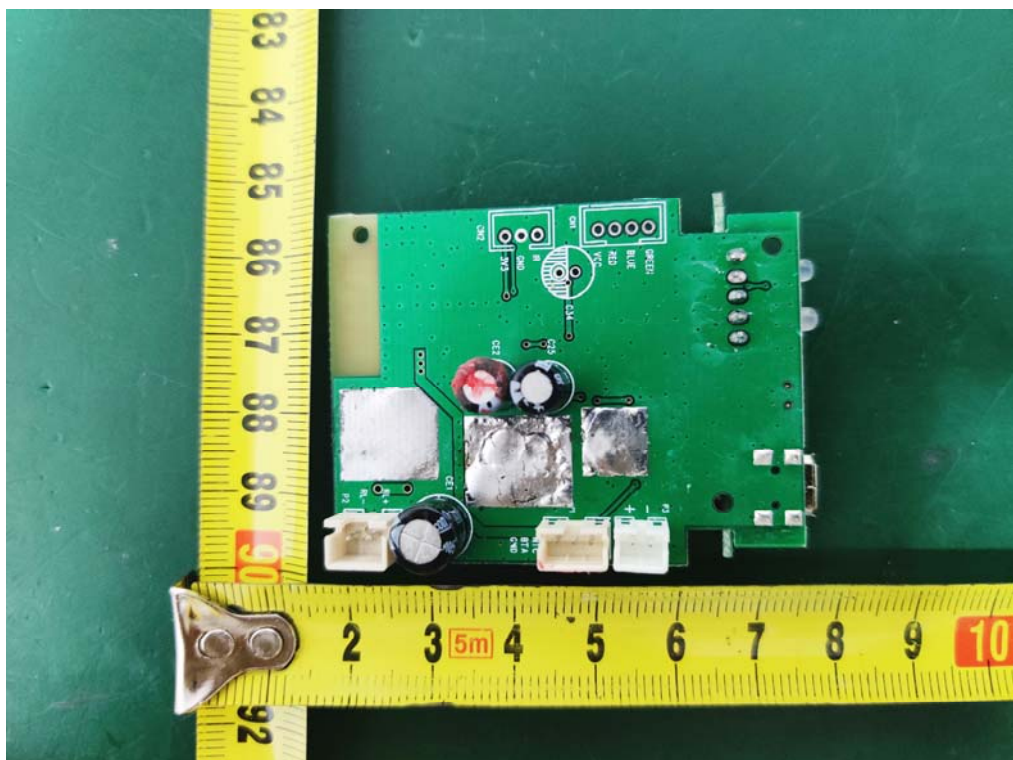
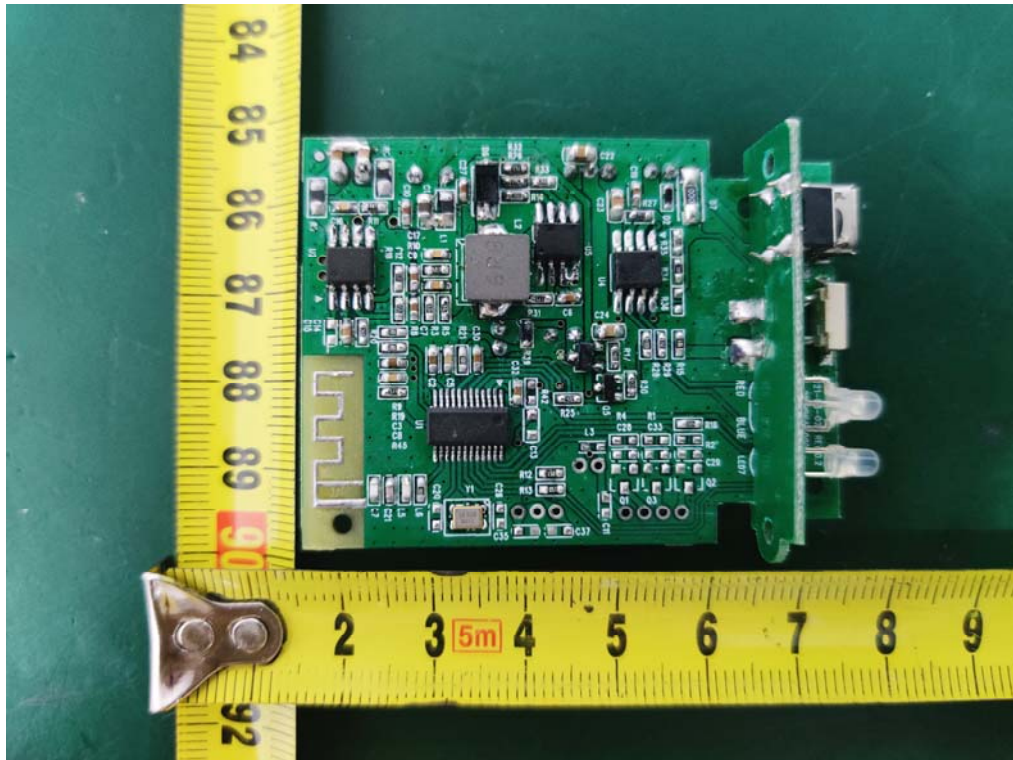
External Photos
M/N: ITSBO-513PS5



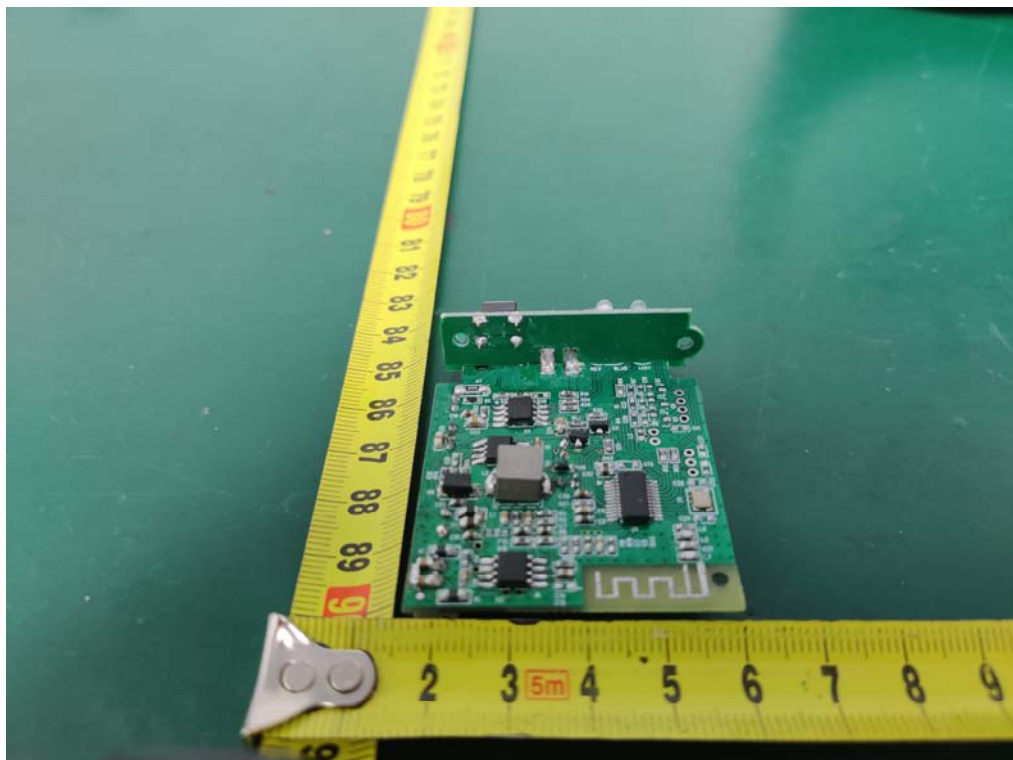
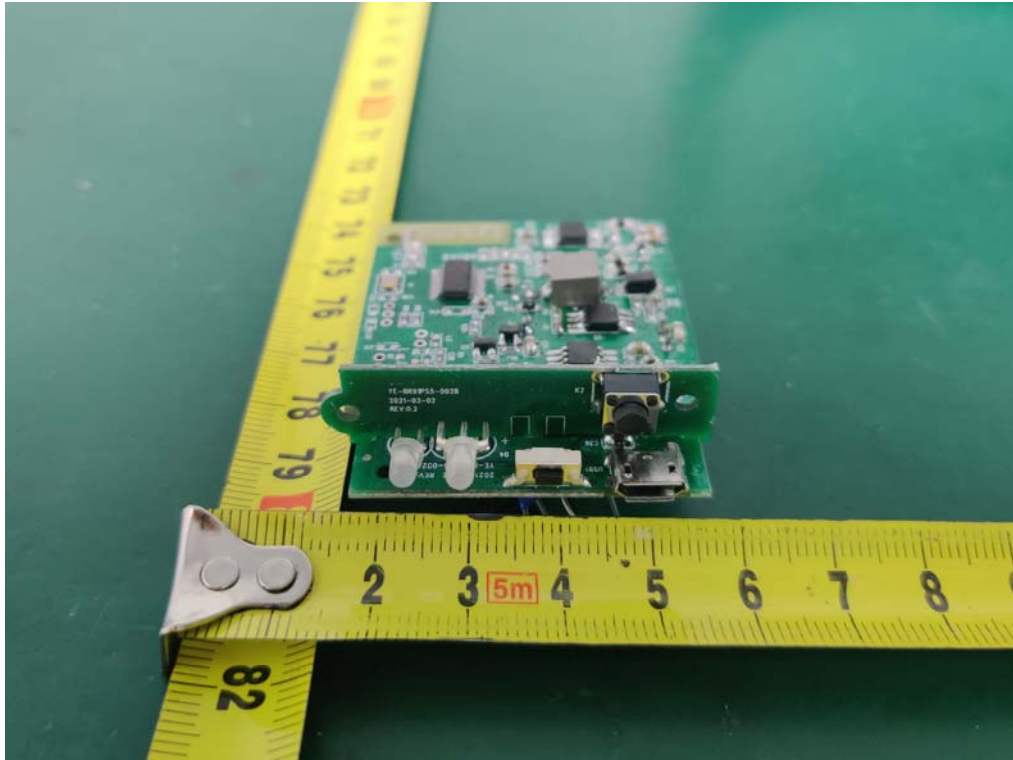
Internal Photos
M/N: ITSBO-513PS5



Internal Photos
M/N: ITSBO-513PS5



Internal Photos
M/N: ITSBO-513PS5



External Photos
M/N: ITSBO-L513



External Photos
M/N: ITSBO-L513



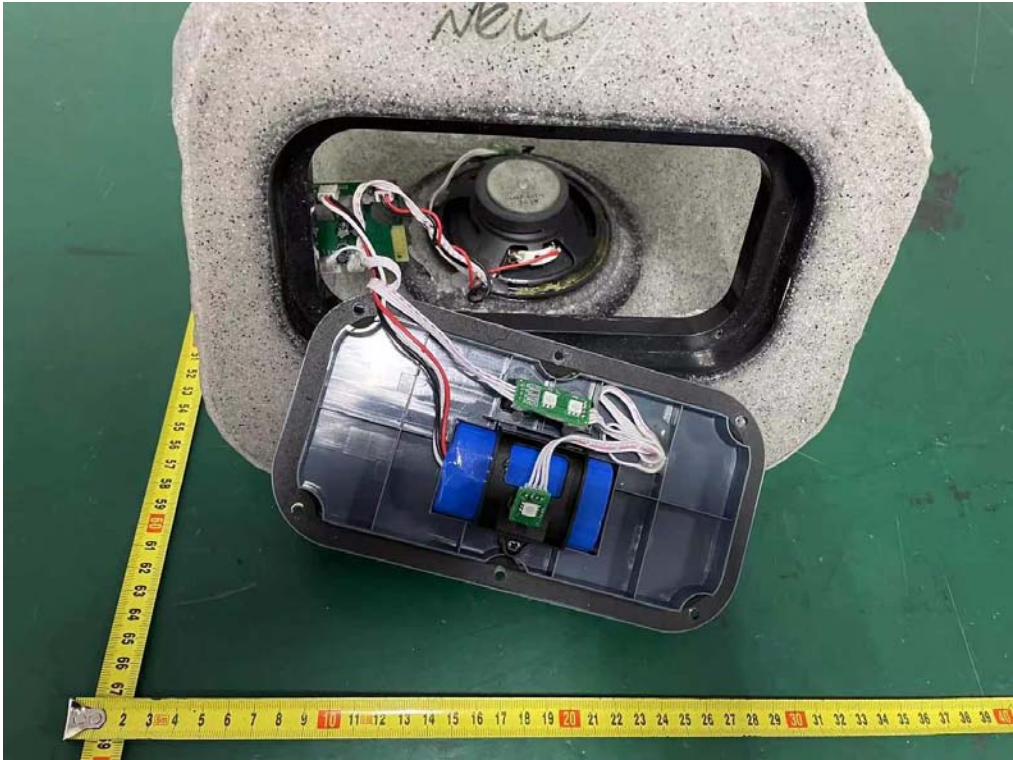
External Photos
M/N: ITSBO-L513



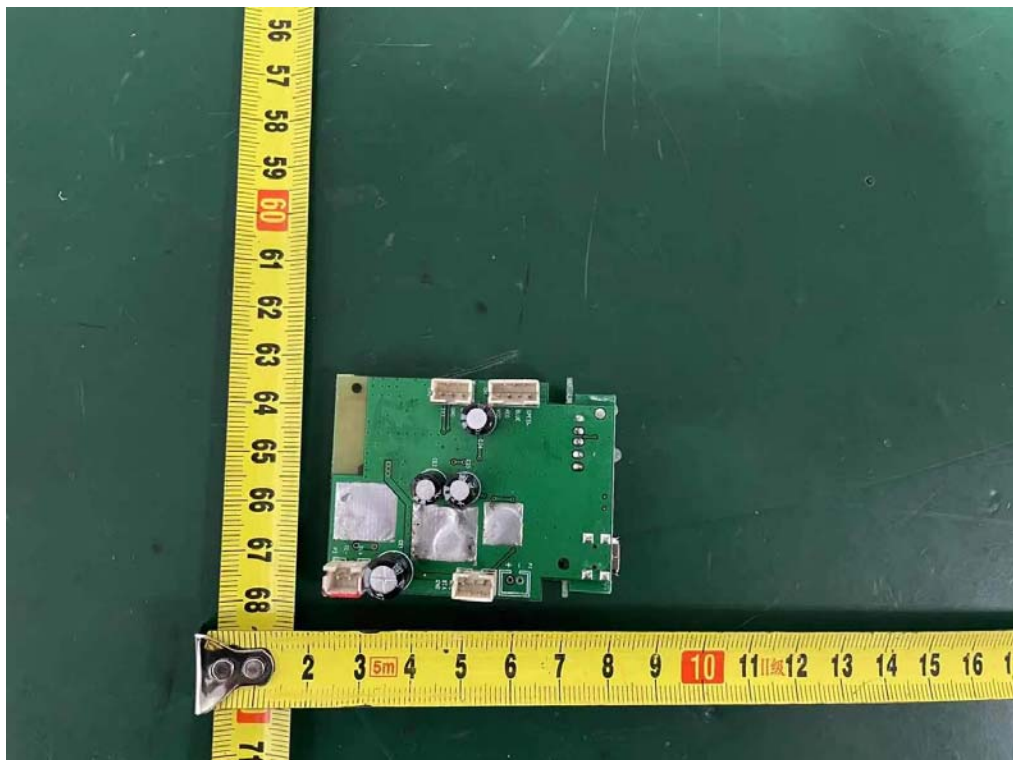
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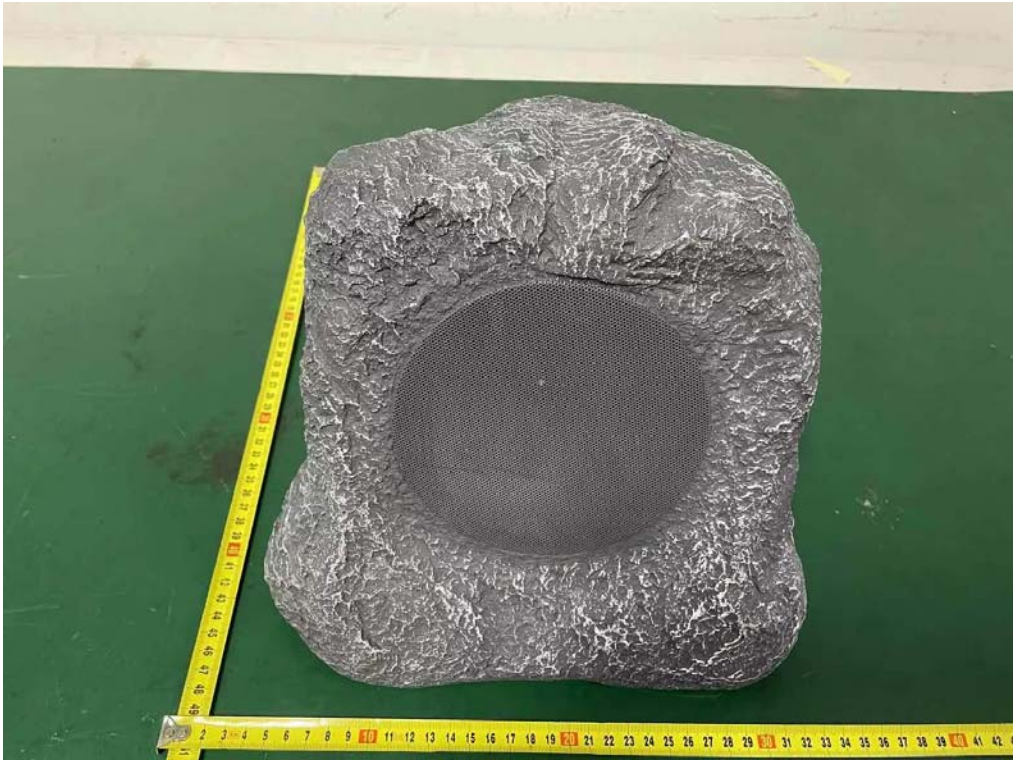
Internal Photos
M/N: ITSBO-L513



Internal Photos
M/N: ITSBO-L513



External Photos
M/N: ITSBO-513P5



External Photos
M/N: ITSBO-358PS5



Picture 3. Model ITSBO-358PS5

Picture 3. Model ITSBO-358PS5



Picture 4.

External Photos
M/N: ITSBO-358P5



End of Test Report