

# TEST REPORT

**Applicant:** AOC

**Address of Applicant:** 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan

**Manufacturer/Factory:** AOC

**Address of Manufacturer/Factory:** 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan

**Equipment Under Test (EUT)**

Product Name: Tablet PC

Model No.: A741

Trade Mark: AOC

FCC ID: 2AEB5-A741

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** March 01, 2018

**Date of Test:** March 02-13, 2018

**Date of report issued:** March 14, 2018

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



**Robinson Lo**

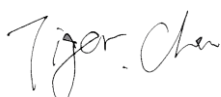
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	March 14, 2018	Original

Prepared by:

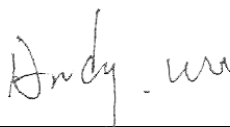


Date:

March 14, 2018

Project Engineer

Reviewed by:



Date:

March 14, 2018

Reviewer

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## 4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4-2014	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4-2014	Class B	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

The highest frequency generated or used in the EUT	Test frequency range of Radiated emission
<108MHz	30MHz ~ 1GHz
108MHz ~ 500MHz	30MHz ~ 2GHz
500MHz ~ 1GHz	30MHz ~ 5GHz
>1GHz	30MHz ~ 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

The highest frequency of the internal sources of the EUT is more than 108MHz.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	Tablet PC
Model No.:	A741
Serial No.:	1000377576001
Test sample(s) ID:	GTS201803000068-2
Sample(s) Status:	Normal sample
Hardware:	AK47-BT-V4.2
Software:	A741_2018
Power supply:	AC Adapter Model:TPA-95A050100UU Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5V, 1000mA Battery: DC 3.7V, 2400mAh, 8.88Wh

### 5.2 Test mode and Test voltage

<b>Test mode:</b>	
PC mode	Keep the EUT in data exchange with PC mode
TF card playing mode	Keep the EUT in TF card playing mode
REC mode	Keep the EUT in continuous record mode
<b>Test voltage</b>	
AC120V 60Hz	

### 5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook PC	E40	N/A
DELL	MONITOR	VS12490	GTS237-1
DELL	KEYBOARD	SK-8115	GTS237-2

### 5.4 Deviation from Standards

None.
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### 5.5 Abnormalities from Standard Conditions

None.
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## 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, Jan. 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

## 5.7 Test Location

The test was performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

## 6 Test Instruments list

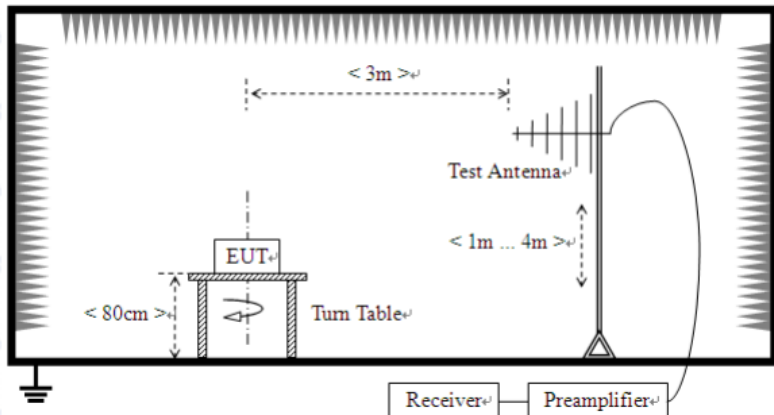
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June.28 2017	June.27 2018
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June.28 2017	June.27 2018
5	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June.28 2017	June.27 2018
6	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June.28 2017	June.27 2018
7	RF Amplifier	HP	8347A	GTS204	June.28 2017	June.27 2018
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June.28 2017	June.27 2018
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS211	June.28 2017	June.27 2018
11	Coaxial Cable	GTS	N/A	GTS210	June.28 2017	June.27 2018
12	Coaxial Cable	GTS	N/A	GTS212	June.28 2017	June.27 2018
13	Thermo meter	N/A	N/A	GTS256	June.28 2017	June.27 2018

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June.28 2017	June.27 2018
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June.28 2017	June.27 2018
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June.28 2017	June.27 2018
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June.28 2017	June.27 2018

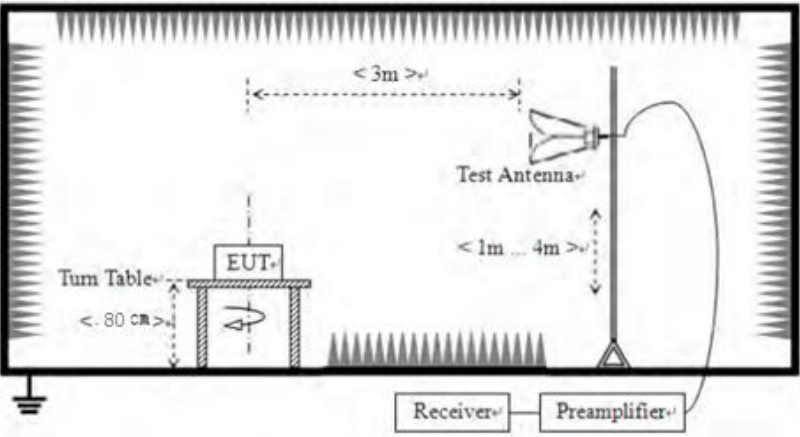
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Barometer	ChangChun	DYM3	GTS257	June.28 2017	June.27 2018

## 7 Test Results and Measurement Data

### 7.1 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 25000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Test setup:	Below 1GHz				
	<div></div>				
	Above 1GHz				



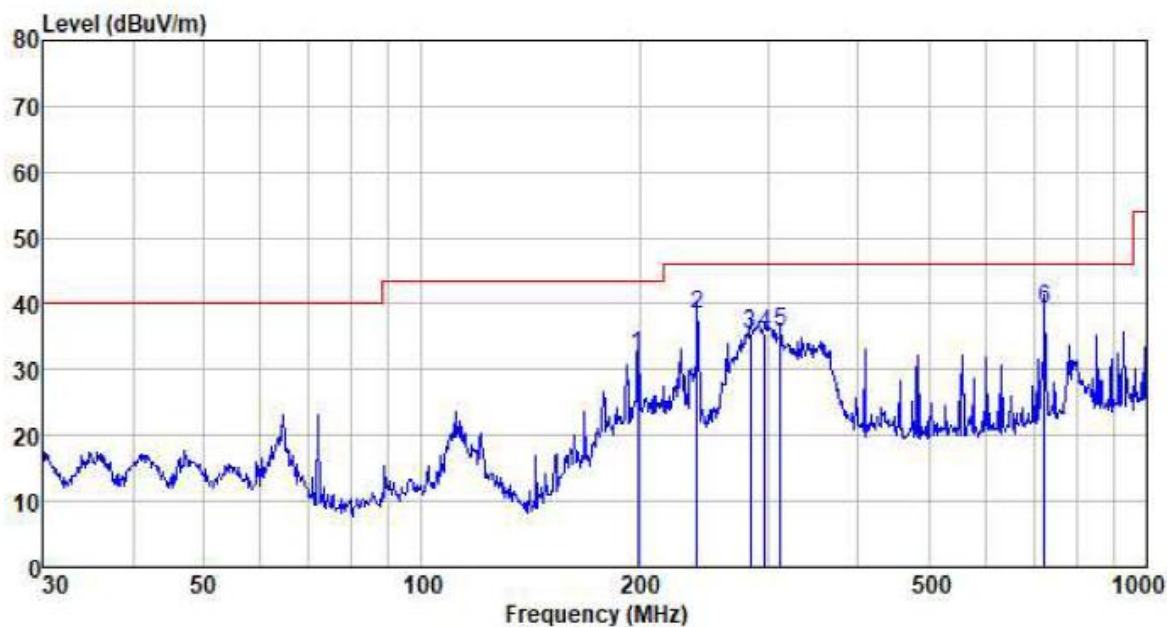
	
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
Test environment:	Temp.: 25 °C    Humid.: 52%    Press.: 1 012mbar
Measurement Record:	Uncertainty: $\pm 4.50\text{dB}$
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details. Only show the worst case.
Test results:	Pass

Note: For above 6GHz , no emission found , only report worse case 30MHz to 6GHz

## Measurement Data

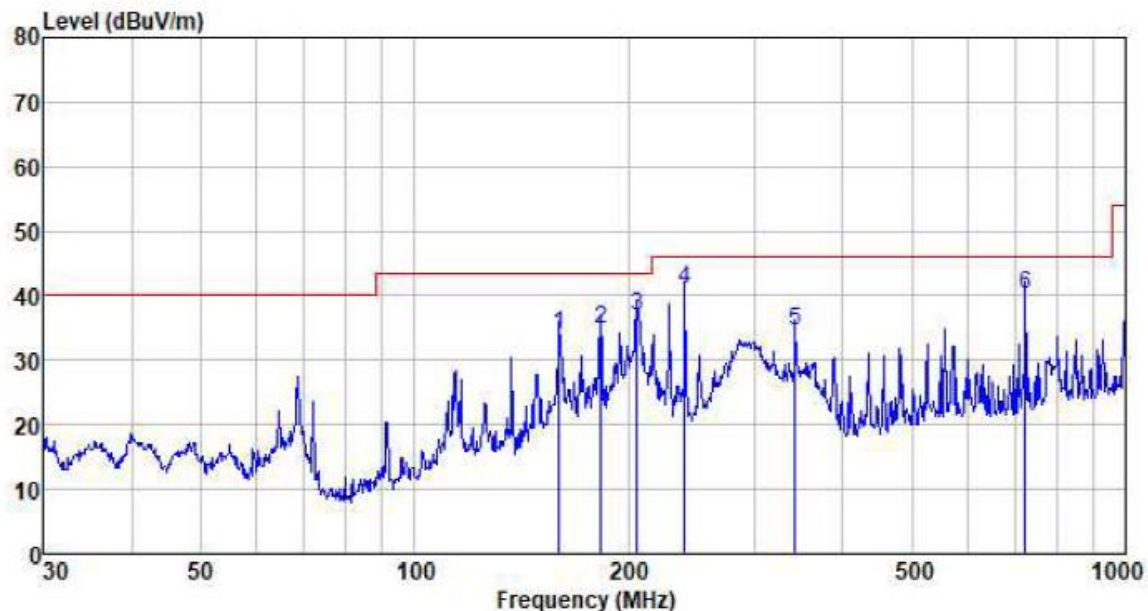
Below 1GHz

Test mode:	PC mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
198.588	57.42	10.31	1.83	37.32	32.24	43.50	-11.26	QP
239.987	61.82	11.85	2.07	37.37	38.37	46.00	-7.63	QP
283.979	57.33	13.16	2.29	37.41	35.37	46.00	-10.63	QP
297.224	56.83	13.53	2.35	37.42	35.29	46.00	-10.71	QP
312.179	57.01	13.85	2.42	37.43	35.85	46.00	-10.15	QP
721.726	52.77	20.03	4.17	37.63	39.34	46.00	-6.66	QP

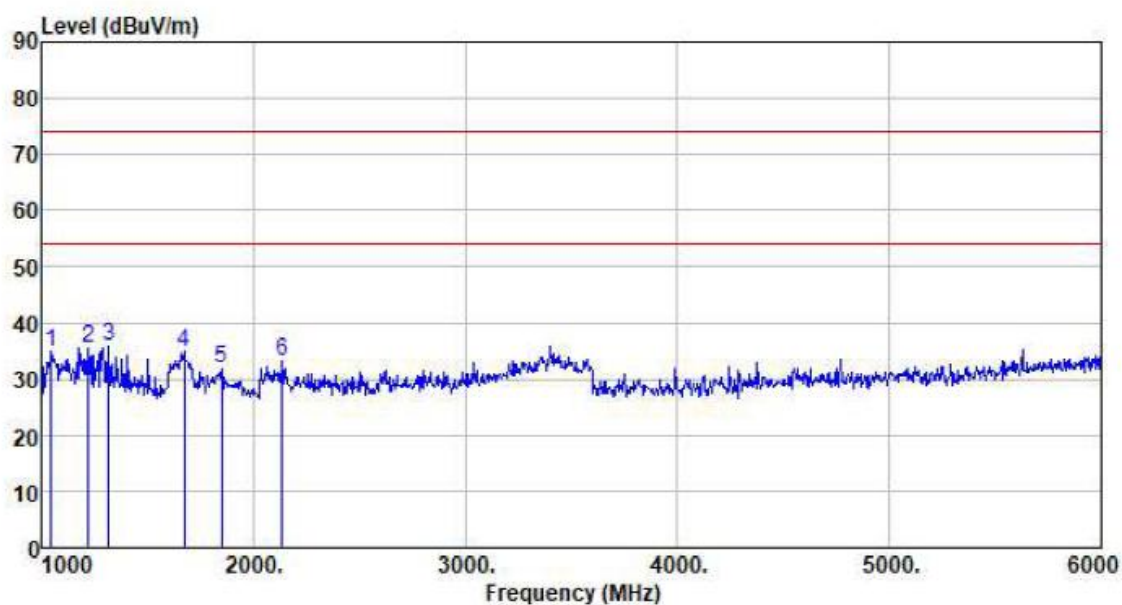
Test mode:	PC mode	Antenna Polarity:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
159.784	61.13	8.30	1.63	37.13	33.93	43.50	-9.57	QP
182.559	61.16	9.15	1.75	37.25	34.81	43.50	-8.69	QP
205.675	61.71	10.62	1.88	37.34	36.87	43.50	-6.63	QP
239.987	64.52	11.85	2.07	37.37	41.07	46.00	-4.93	QP
343.180	54.94	14.40	2.59	37.47	34.46	46.00	-11.54	QP
721.726	53.53	20.03	4.17	37.63	40.10	46.00	-5.90	QP

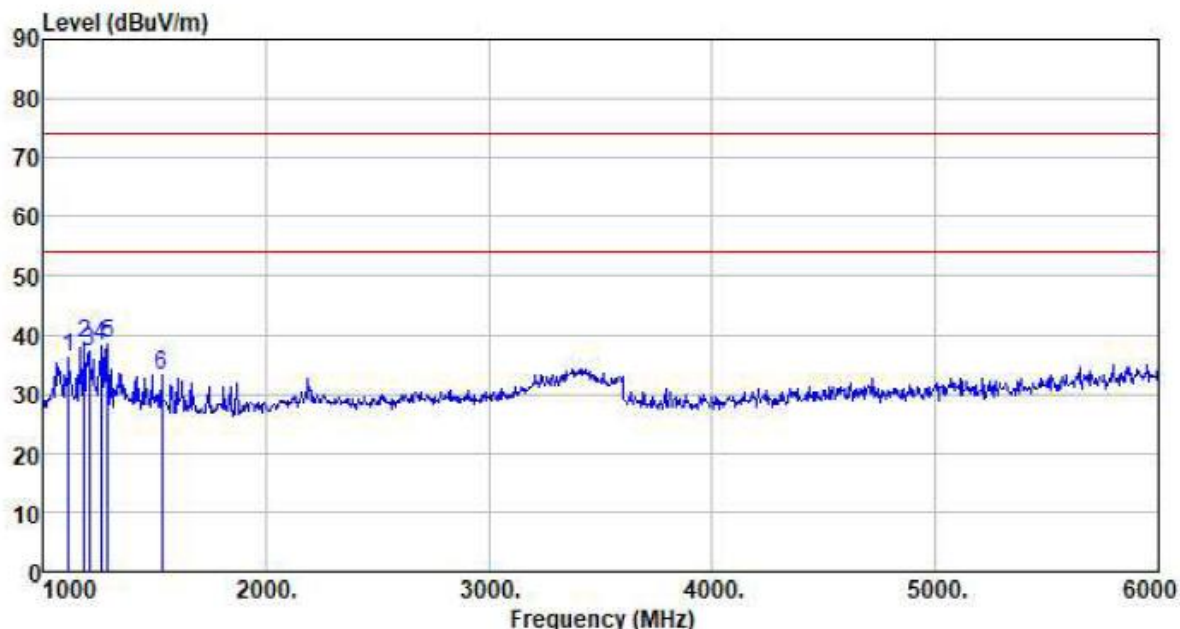
Above 1GHz

Test mode:	PC mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1045.000	41.60	24.61	4.33	35.83	34.71	74.00	-39.29	Peak
1220.000	41.68	25.43	4.48	35.93	35.66	74.00	-38.34	Peak
1320.000	41.57	25.66	4.56	35.99	35.80	74.00	-38.20	Peak
1675.000	41.21	24.92	4.79	36.21	34.71	74.00	-39.29	Peak
1850.000	37.79	25.52	4.88	36.31	31.88	74.00	-42.12	Peak
2135.000	37.14	27.39	5.11	36.51	33.13	74.00	-40.87	Peak

Test mode:	PC mode	Antenna Polarity:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1115.000	42.94	24.82	4.40	35.87	36.29	74.00	-37.71	Peak
1185.000	44.72	25.27	4.45	35.91	38.53	74.00	-35.47	Peak
1210.000	43.22	25.39	4.47	35.92	37.16	74.00	-36.84	Peak
1260.000	44.12	25.55	4.51	35.95	38.23	74.00	-35.77	Peak
1290.000	44.34	25.61	4.54	35.97	38.52	74.00	-35.48	Peak
1535.000	39.63	25.14	4.70	36.12	33.35	74.00	-40.65	Peak

**Note:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

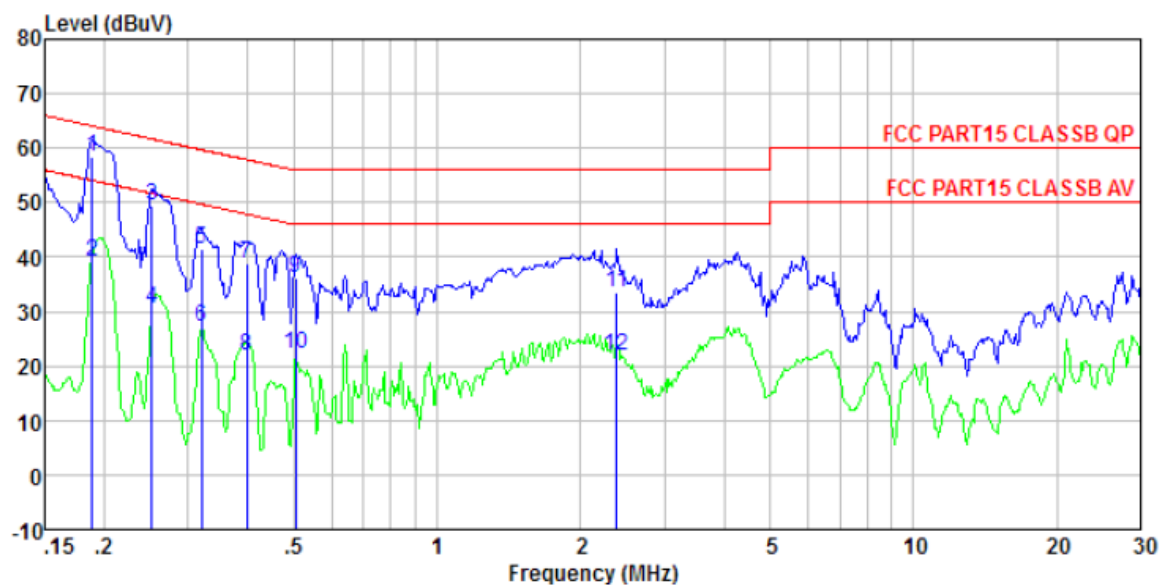
## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107																		
Test Method:	ANSI C63.4:2014																		
Test Frequency Range:	150kHz to 30MHz																		
Class / Severity:	Class B																		
Receiver setup:	RBW=9kHz, VBW=30kHz																		
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>0.5-30</td><td>60</td><td>50</td></tr></table>					Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50
Frequency range (MHz)	Limit (dBμV)																		
	Quasi-peak	Average																	
0.15-0.5	66 to 56*	56 to 46*																	
0.5-5	56	46																	
0.5-30	60	50																	
Test setup:	<div><p style="text-align: center;"><b>Reference Plane</b></p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark</i> E.U.T.: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																		
Test procedure	<div><div>1.</div><div>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</div></div> <div><div>2.</div><div>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</div></div> <div><div>3.</div><div>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</div></div>																		
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar													
Test Instruments:	Refer to section 6 for details																		
Test mode:	Refer to section 5.2 for details. Only show the worst case.																		
Test results:	Pass																		

## Measurement Data

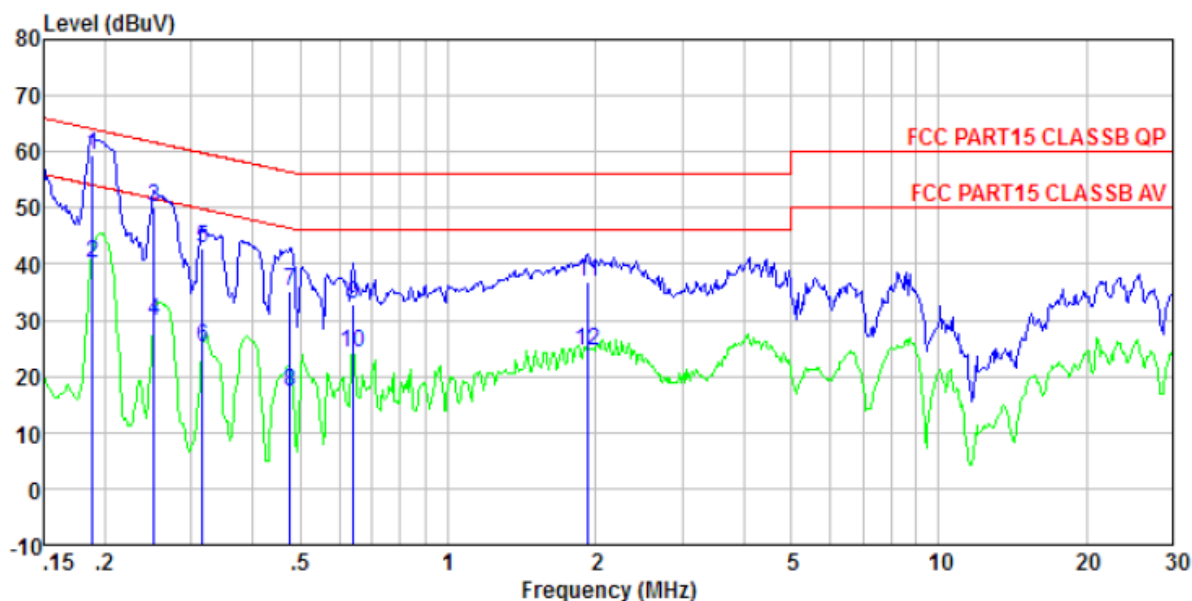


Test mode:	PC mode	Phase Polarity:	Line
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Freq MHz	Reading level dBuV	IISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.188	58.02	0.40	0.10	58.52	64.11	-5.59	QP
0.188	38.55	0.40	0.10	39.05	54.11	-15.06	Average
0.252	48.97	0.40	0.10	49.47	61.69	-12.22	QP
0.252	29.91	0.40	0.10	30.41	51.69	-21.28	Average
0.320	40.86	0.39	0.10	41.35	59.71	-18.36	QP
0.320	26.61	0.39	0.10	27.10	49.71	-22.61	Average
0.398	38.24	0.35	0.11	38.70	57.90	-19.20	QP
0.398	21.36	0.35	0.11	21.82	47.90	-26.08	Average
0.505	35.68	0.31	0.11	36.10	56.00	-19.90	QP
0.505	21.67	0.31	0.11	22.09	46.00	-23.91	Average
2.384	33.28	0.20	0.18	33.66	56.00	-22.34	QP
2.384	21.41	0.20	0.18	21.79	46.00	-24.21	Average

Test mode:	PC mode	Phase Polarity:	Neutral
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Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.188	59.00	0.40	0.10	59.50	64.11	-4.61	QP
0.188	39.72	0.40	0.10	40.22	54.11	-13.89	Average
0.252	49.68	0.40	0.10	50.18	61.69	-11.51	QP
0.252	29.52	0.40	0.10	30.02	51.69	-21.67	Average
0.317	42.15	0.39	0.10	42.64	59.80	-17.16	QP
0.317	24.81	0.39	0.10	25.30	49.80	-24.50	Average
0.476	34.82	0.32	0.11	35.25	56.41	-21.16	QP
0.476	16.86	0.32	0.11	17.29	46.41	-29.12	Average
0.641	32.57	0.27	0.12	32.96	56.00	-23.04	QP
0.641	23.96	0.27	0.12	24.35	46.00	-21.65	Average
1.928	36.45	0.20	0.17	36.82	56.00	-19.18	QP
1.928	24.10	0.20	0.17	24.47	46.00	-21.53	Average

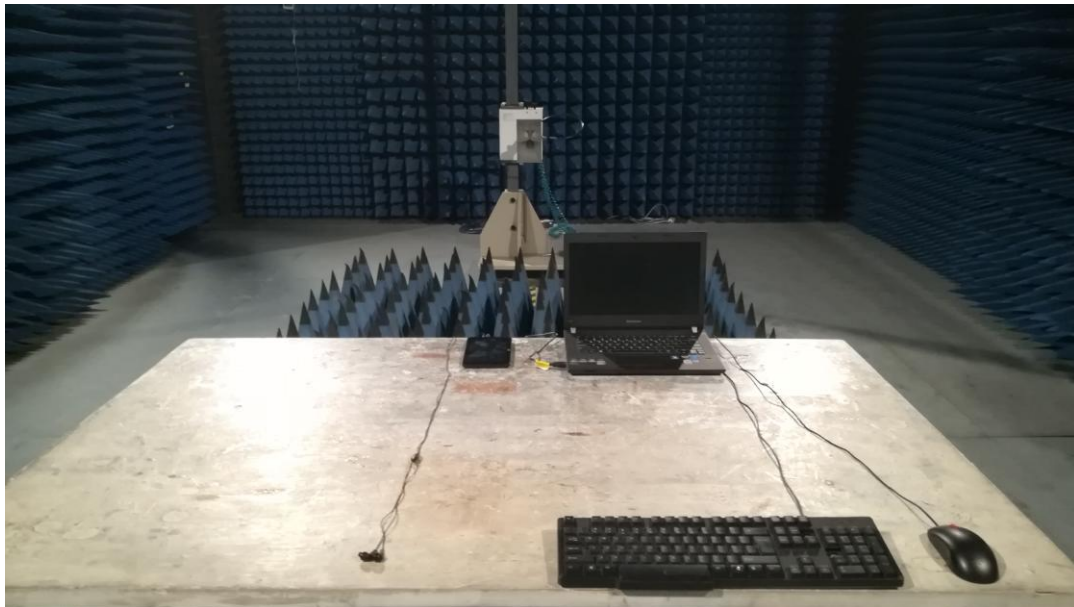
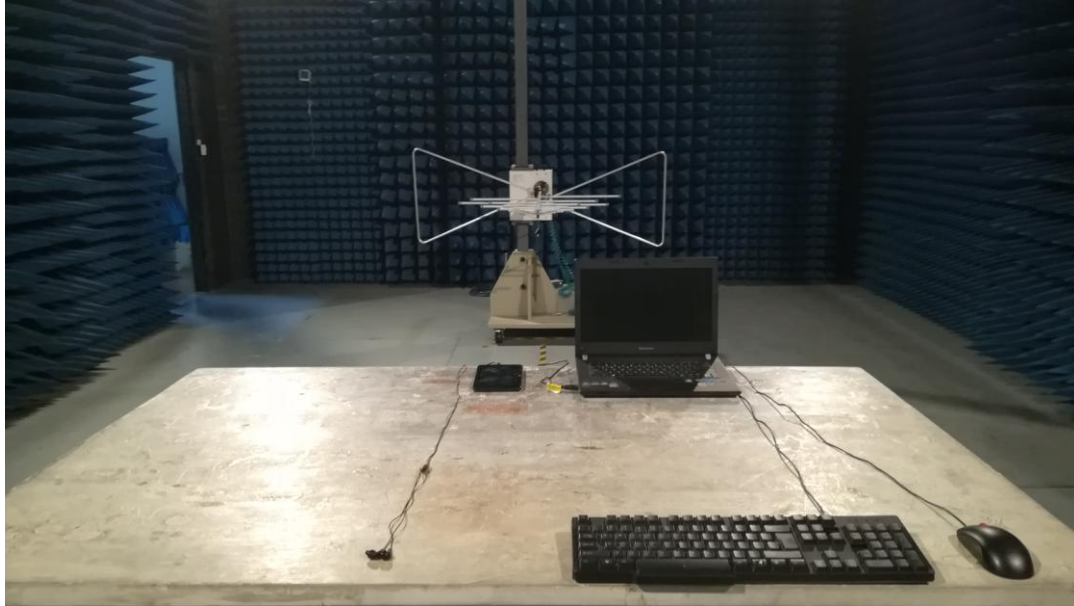
## Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



## 8 Test Setup Photo

Radiated Emission



## 9 EUT Constructional Details

Reference to the test report No. : GTS201803000068F01

-----End-----