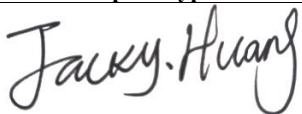


FCC TEST REPORT

Under:
FCC Part 15 Subpart B, Class B
JBP-Part 15 Class B Computing Device Peripheral

Prepared For :
Grandstream Networks, Inc.
126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

FCC ID: YZZHT813
EUT: Analog Telephone Adaptors
Model: HT813

June 27, 2018 Issue Date:
Original Report Report Type:
 Test Engineer: Jacky Huang
 Review By: Apollo Liu / Manager

The test report consists 37 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of Ke Mei Ou Laboratory Corporation. The test result in the report only applied to the tested sample.

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Report Revision History

Report #	Version	Description	Issued Date
KSZ2018060101J	Rev.01	Initial issue of report	June 11, 2018
KSZ2018060101J	Rev.0	Update section 4.4 & 4.7 & 5.7 & 6.1	June 27, 2018

1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.6. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

Test Firm Name:	Ke Mei Ou Lab Co., Ltd.
Test Firm Address:	2013-2016, 20th Floor, Business Center, Jiahui Xin Cheng, No 3027, Shen Nan Road, Fu Tian, Shen Zhen, Guang Dong, P. R. China
FCC Designation Number:	CN1532
Test Firm Registration Number:	344480
Internet:	www.kmolab.com
Email:	kmo@kmolab.com
ANSI-ASQ National Accreditation Board/ACLASS ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is AT-1532. The testing quality system meets with ISO/IEC-17025 requirements, This approval results is accepted by MRA of ILAC.	

1.3 Details of Applicant

Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

1.4 Application Details

Date of Receipt of Application: June 1, 2018
 Date of Receipt of Test Item: June 1, 2018
 Date of Test : June 5~June 27, 2018

1.5 Details of Manufacturer

Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

1.6 Test Item

EUT Feature	
EUT Description:	Analog Telephone Adaptors
Brand Name:	Grandstream
Model Name:	HT813
HW Version:	V1.1
SW Version:	V0.6.13.5
EUT Stage:	Identical Prototype
Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

Standard Product Specification	
EUT Type	Computing Device Peripheral
EUT Operational Condition	☐ AC
	☒ DC → ☐ From Battery ☒ External AC adapter ☐ POE

Additional Information

Specification of Accessory				
☒ AC/DC Adapter #1 (US)	Brand Name	SUNLIGHT	Model Name	F06US1200050A
	Power Rating	INPUT:100~240VAC,OUTPUT:12VDC,0.5A,		
☒ AC/DC Adapter #2 (US)	Brand Name	MASS POWER	Model Name	NBS05B120050VU
	Power Rating	INPUT:100~240VAC,OUTPUT:12VDC,0.5A,		

1.7 Applicable Standards

Applicable Standards
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards: FCC Part 15 Subpart B ANSI C63.4-2014
Note: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Technical Test

2.1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC Rules	Test Type	Limit	Result	Notes
FCC Part 15, Paragraph 15.107	AC Conducted Test	< 15.107 Limits	PASS	Complies.
FCC Part 15, Paragraph 15.109	Radiated Test	< 15.109 Limits	PASS	Complies.

2.2 Measurement Uncertainty

Measurement	Frequency	Uncertainty
Conducted emissions	0.15MHz~30MHz	1.72
Radiated emissions	30MHz ~ 300MHz	3.88
Radiated emissions	300MHz ~1000MHz	3.86
Radiated emissions	>1000MHz	4.42

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

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

4.1 Test Equipment

Please refer to Section 8 this report.

4.2 Test Procedure

Test Method	
☒	The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. 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. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

4.3 Test Setup

Test Setup

AC Line Conducted Emissions

The diagram illustrates the test setup for AC Line Conducted Emissions within a shielded room. A PC+ EUT (Equipment Under Test) is placed on a stand, positioned 0.4m from the left wall and 0.8m above the floor. The EUT is connected to a LISN (Line Impedance Stabilization Network), which is in turn connected to a spectrum analyzer. The floor is labeled as Metal Ground. The entire setup is enclosed in a shielded room.

This test is applicable for radio equipment and/or ancillary equipment for fixed use powered by the AC mains. This test shall be performed on a representative configuration of the radio equipment, the associated ancillary equipment, or a representative configuration of the combination of radio and ancillary equipment. This test assesses the level of internally generated electrical noise present on the AC power input/output ports.

4. 4 Configuration of the EUT

The EUT was configured according to ANSI C63.4:2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

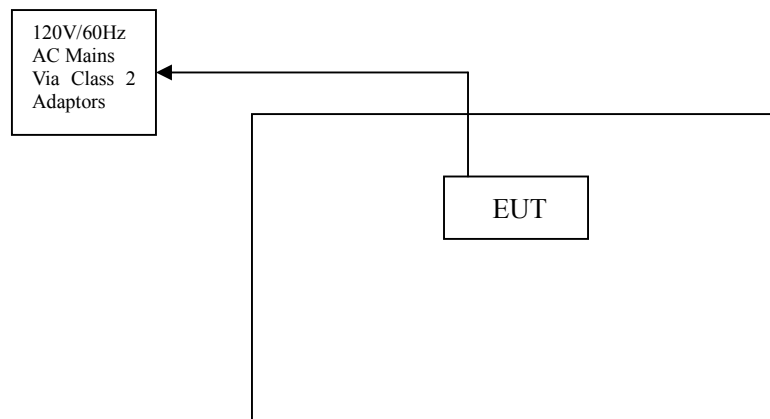
EUT Operation Test Setup	
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations. Only the worst test mode data was reported.	
Pre-Scan Mode	
Test Mode	Operating Description
1	EUT power by AC/DC Adapter #1
2	EUT power by AC/DC Adapter #2
3	WAN data transmission
Conducted Emissions → Final	
Test Mode	Operating Description
1	EUT power by AC/DC Adapter #1
2	EUT power by AC/DC Adapter #2
3	WAN data transmission
Radiated Emissions → Final	
Test Mode	Operating Description
1	EUT power by AC/DC Adapter #1
3	WAN data transmission
Note: The test modes were carried out for all operation modes (include link and idle). The final test mode of the EUT was the worst test mode for Mode 1, and its test data was reported.	

Support Unit				
Device	Manufacturer	Model # Serial #	FCC ID	Cable
Ideapad	Lenovo	20195	DoC	1.5m unshielded power cord
Analog Telephone Adaptors	Grandstream	HT503	YZZHT503	1.5m unshielded power cord
Keyboard	DELL	KB212-B	DoC	1.5m unshielded cable
Mouse	DELL	MS-111	DoC	1.5m unshielded cable

4.5 EUT Operating Condition

Operating condition is according to ANSI C63.4:2014.

Connect EUT to an IP phone and enable talking

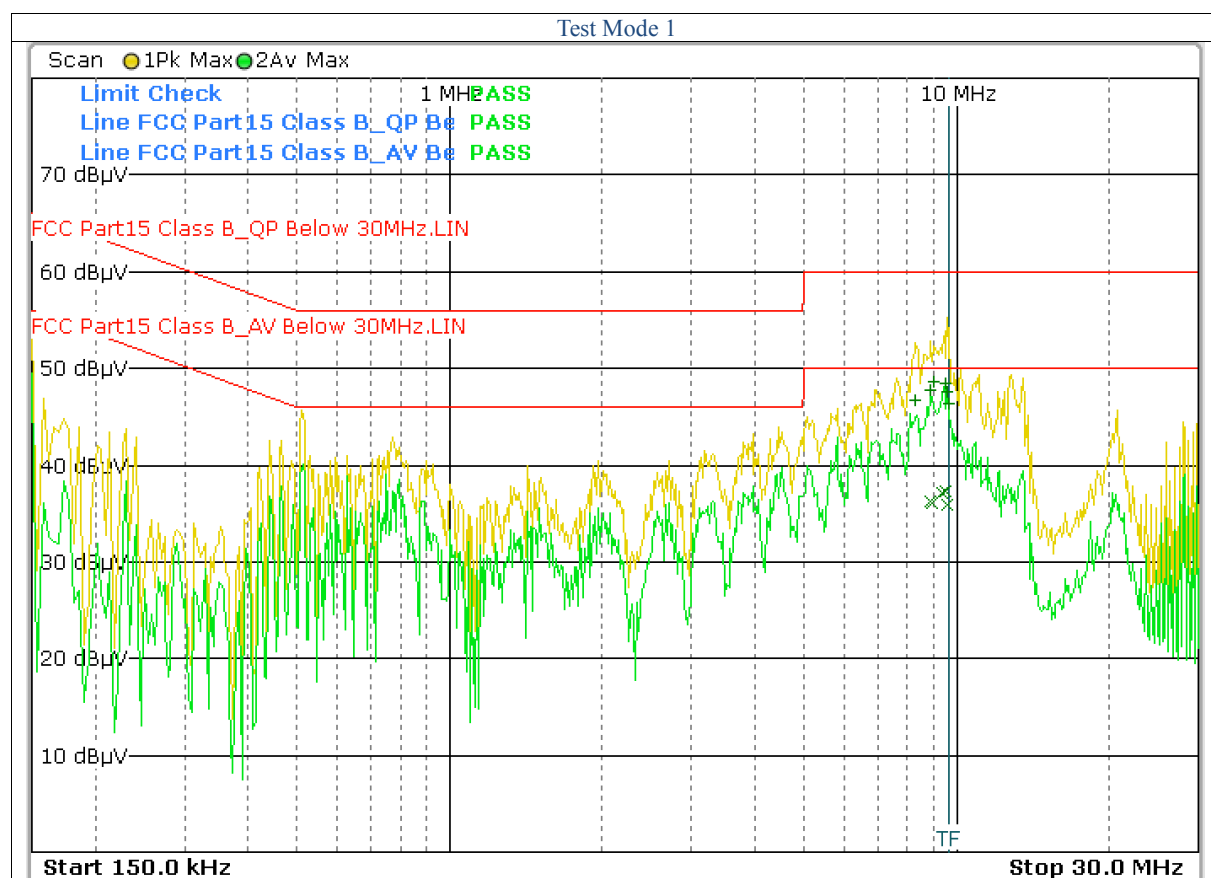


4.6 Conducted Power Line Emission Limits

Frequency Range (MHz)	Class A QP/AV (dBuV)	Class B QP/AV (dBuV)
0.15 – 0.5	79/66	66 –56/56 –46
0.5 – 5.0	73/60	56/46
5.0 – 30	73/60	60/50

Note: In the above table, the tighter limit applies at the band edges.

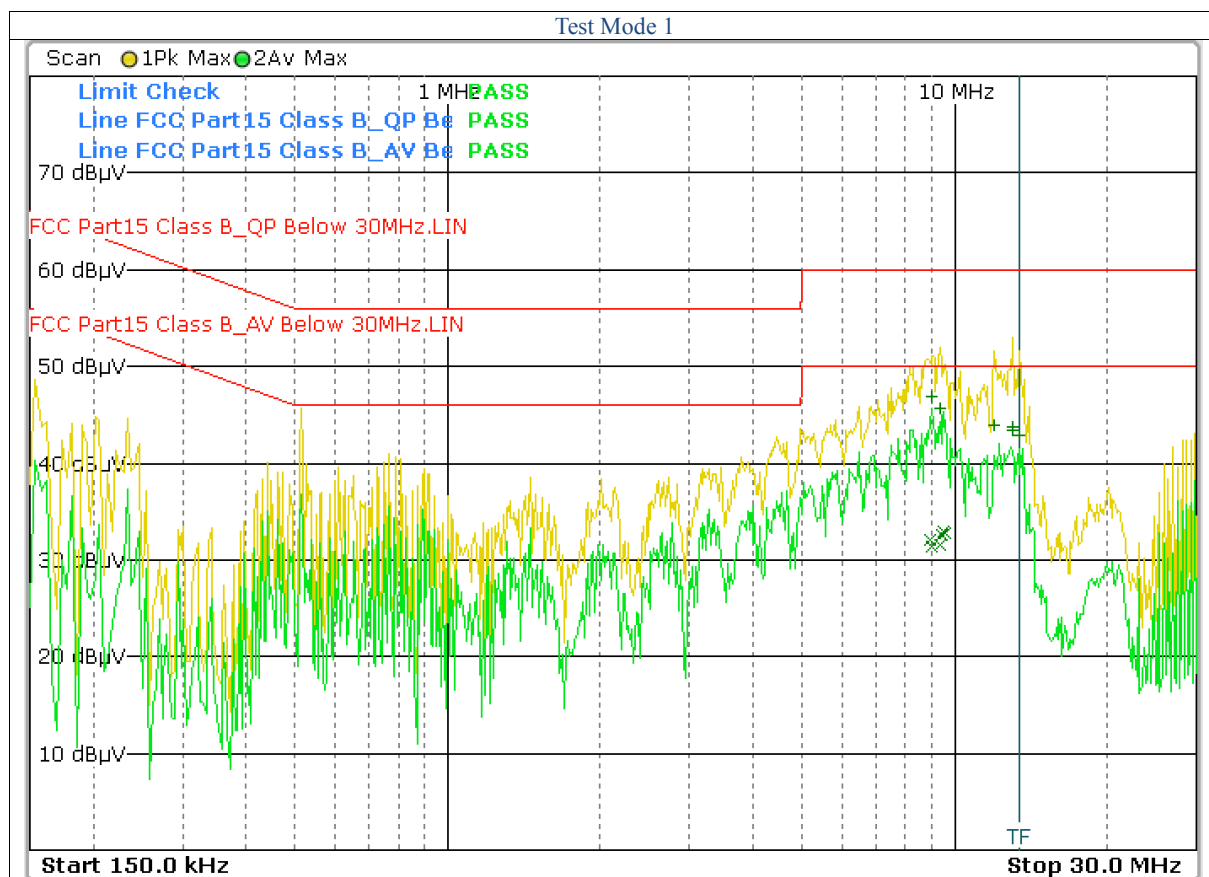
4.7 Conducted Power Line Test Result



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
8.290	35.87	26.15	10.70	46.57	36.85	Line	60.00	50.00	-13.43	-13.15
8.900	37.00	25.49	10.70	47.70	36.19	Line	60.00	50.00	-12.30	-13.81
9.020	38.00	25.43	10.70	48.70	36.13	Line	60.00	50.00	-11.30	-13.87
9.506	37.69	26.56	10.70	48.39	37.26	Line	60.00	50.00	-11.61	-12.74
9.594	36.85	25.25	10.70	47.55	35.95	Line	60.00	50.00	-12.45	-14.05
9.674	35.72	25.31	10.70	46.42	36.01	Line	60.00	50.00	-13.58	-13.99
8.290	35.87	26.15	10.70	46.57	36.85	Line	60.00	50.00	-13.43	-13.15
8.900	37.00	25.49	10.70	47.70	36.19	Line	60.00	50.00	-12.30	-13.81
FCC15										

Note:

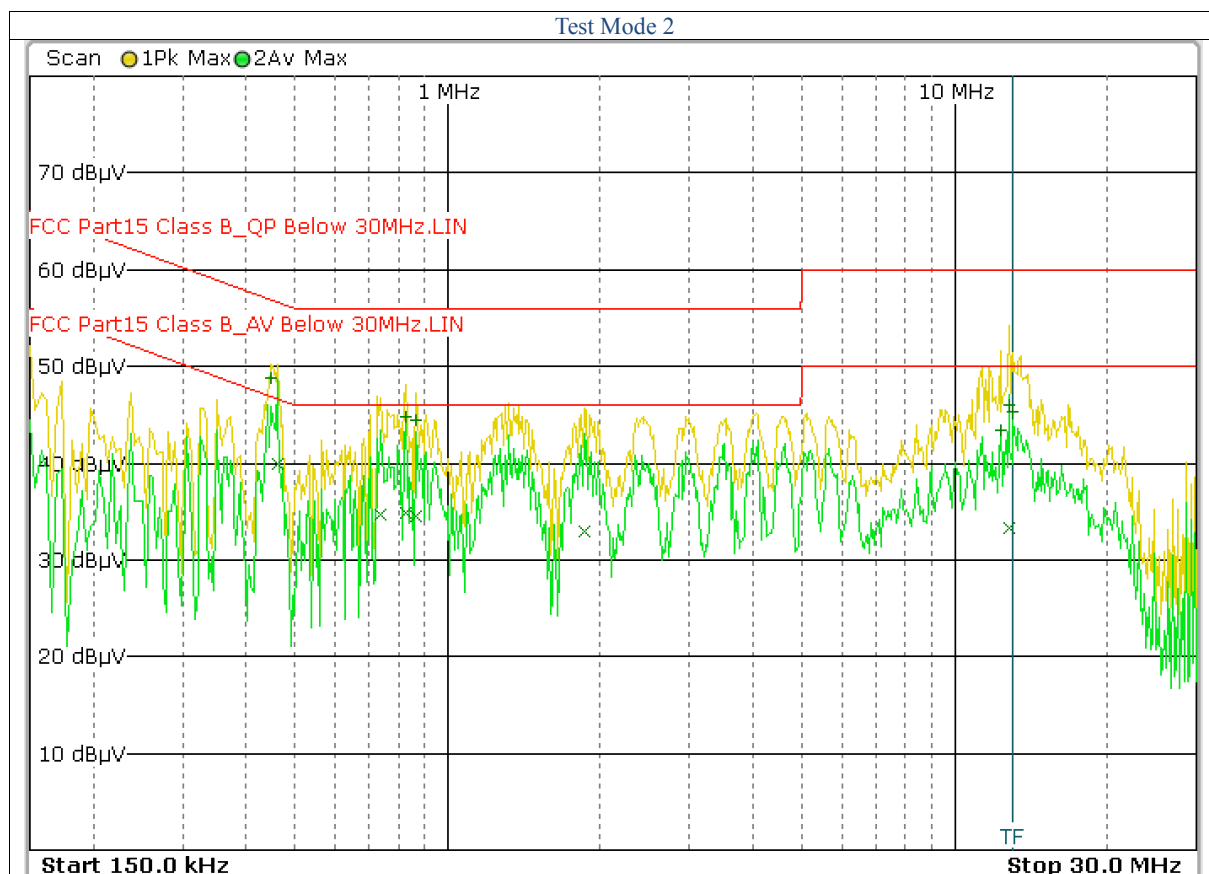
- 1.Uncertainty in conducted emission measured is $\leq \pm 2$ dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
9.022	36.24	20.75	10.70	46.94	31.45	Neutral	60.00	50.00	-13.06	-18.55
9.366	35.82	20.86	10.70	46.52	31.56	Neutral	60.00	50.00	-13.48	-18.44
9.550	30.69	22.21	10.70	41.39	32.91	Neutral	60.00	50.00	-18.61	-17.09
11.986	33.06	19.45	10.80	43.86	30.25	Neutral	60.00	50.00	-16.14	-19.75
13.062	32.90	19.51	10.80	43.70	30.31	Neutral	60.00	50.00	-16.30	-19.69
13.470	32.06	18.25	10.80	42.86	29.05	Neutral	60.00	50.00	-17.14	-20.95
FCC15										

Note:

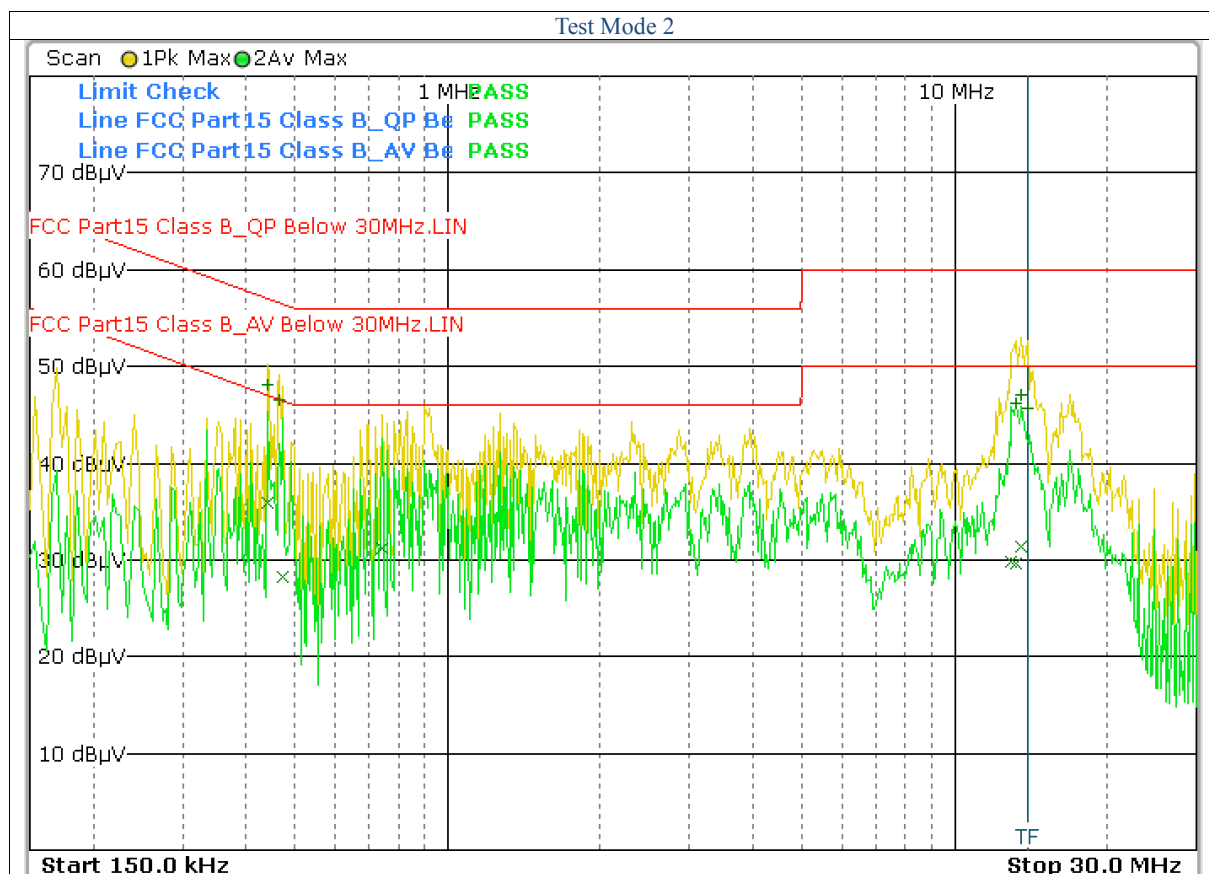
- 1.Uncertainty in conducted emission measured is <+/-2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.450	36.52	29.28	10.40	46.92	39.68	Line	56.88	46.88	-9.96	-7.20
0.830	34.39	24.48	10.40	44.79	34.88	Line	56.00	46.00	-11.21	-11.12
0.866	34.13	24.07	10.40	44.53	34.47	Line	56.00	46.00	-11.47	-11.53
12.354	32.62	21.81	10.80	43.42	32.61	Line	60.00	50.00	-16.58	-17.39
12.822	35.28	22.51	10.80	46.08	33.31	Line	60.00	50.00	-13.92	-16.69
13.062	34.58	21.89	10.80	45.38	32.69	Line	60.00	50.00	-14.62	-17.31
FCC15										

Note:

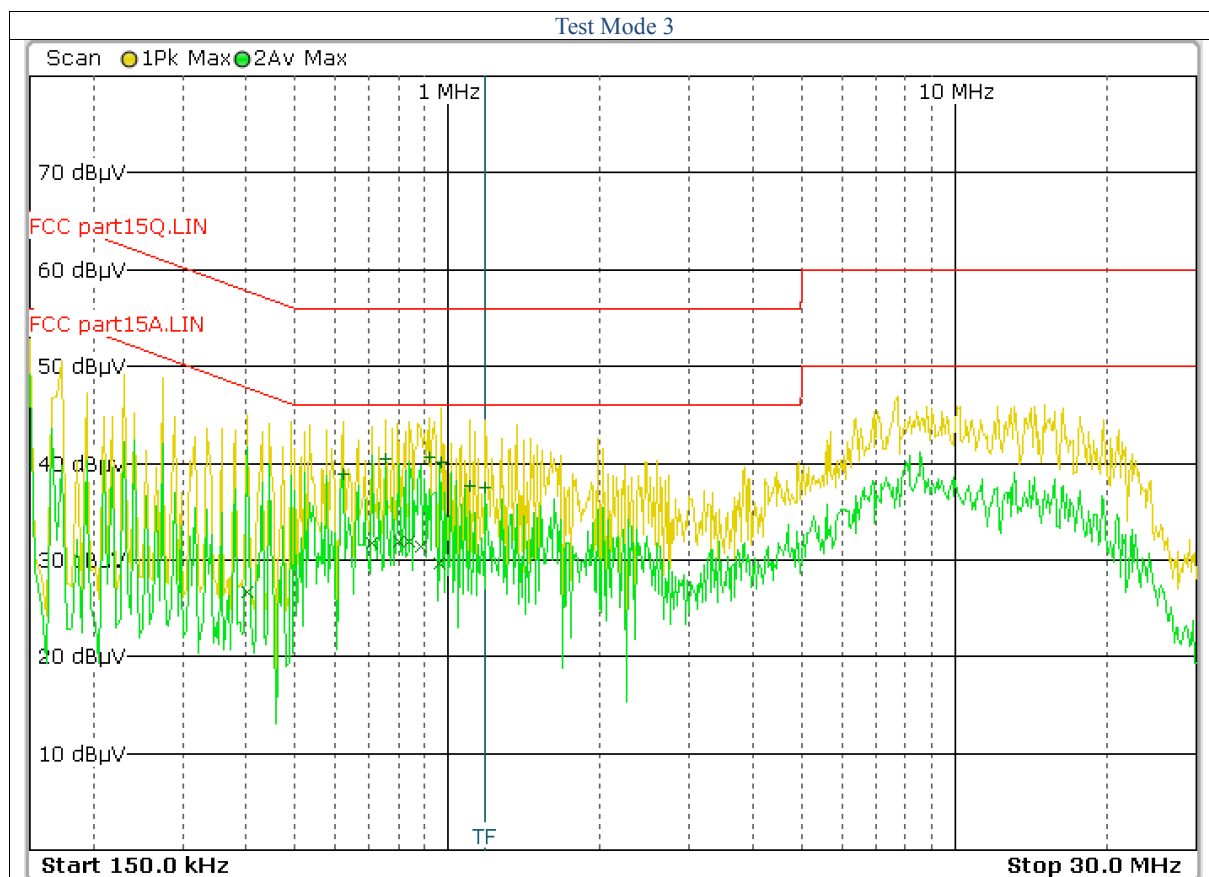
- 1.Uncertainty in conducted emission measured is ± 2 dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.442	35.66	24.89	10.40	46.06	35.29	Neutral	57.02	47.02	-10.96	-11.73
0.466	35.05	23.62	10.40	45.45	34.02	Neutral	56.58	46.58	-11.13	-12.56
0.474	32.22	17.76	10.40	42.62	28.16	Neutral	56.44	46.44	-13.82	-18.28
13.222	35.41	18.88	10.80	46.21	29.68	Neutral	60.00	50.00	-13.79	-20.32
13.486	36.18	21.51	10.80	46.98	32.31	Neutral	60.00	50.00	-13.02	-17.69
13.902	34.79	22.65	10.80	45.59	33.45	Neutral	60.00	50.00	-14.41	-16.55
FCC15										

Note:

- 1.Uncertainty in conducted emission measured is ± 2 dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.622	28.42	16.53	10.40	38.82	26.93	Line	56.00	46.00	-17.18	-19.07
0.754	30.05	21.29	10.40	40.45	31.69	Line	56.00	46.00	-15.55	-14.31
0.802	29.87	21.52	10.40	40.27	31.92	Line	56.00	46.00	-15.73	-14.08
0.918	30.15	19.26	10.40	40.55	29.66	Line	56.00	46.00	-15.45	-16.34
0.974	29.61	17.92	10.40	40.01	28.32	Line	56.00	46.00	-15.99	-17.68
1.106	27.16	16.45	10.40	37.56	26.85	Line	56.00	46.00	-18.44	-19.15
FCC15										

Note:

- 1.Uncertainty in conducted emission measured is ± 2 dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.



FCC15										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.482	29.75	23.28	10.40	40.15	33.68	Neutral	56.30	46.30	-16.15	-12.62
0.878	33.89	26.43	10.40	44.29	36.83	Neutral	56.00	46.00	-11.71	-9.17
0.898	33.67	24.83	10.40	44.07	35.23	Neutral	56.00	46.00	-11.93	-10.77
0.930	37.68	28.61	10.40	48.08	39.01	Neutral	56.00	46.00	-7.92	-6.99
0.946	33.85	25.33	10.40	44.25	35.73	Neutral	56.00	46.00	-11.75	-10.27
1.006	33.64	23.73	10.40	44.04	34.13	Neutral	56.00	46.00	-11.96	-11.87
FCC15										

Note:

- 1.Uncertainty in conducted emission measured is ± 2 dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.

5. Radiated Emission Test

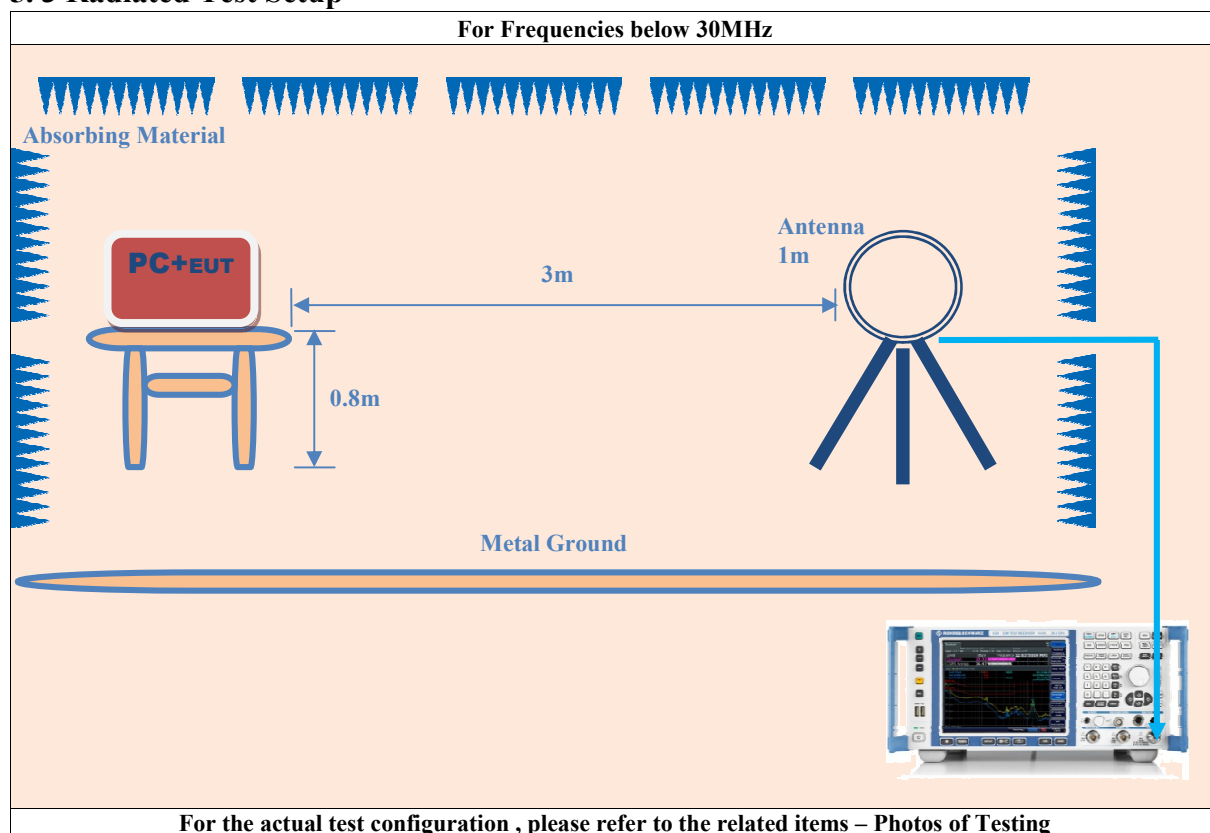
5.1 Test Equipment

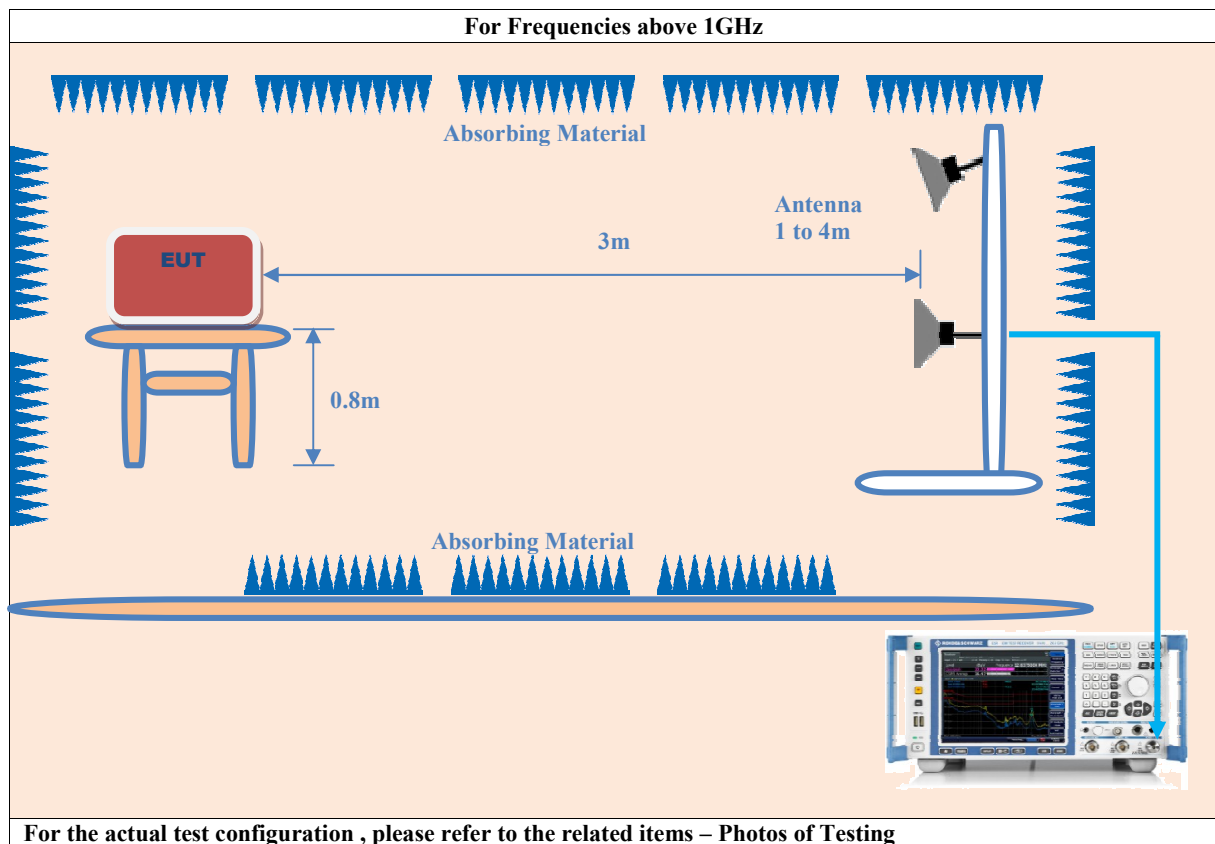
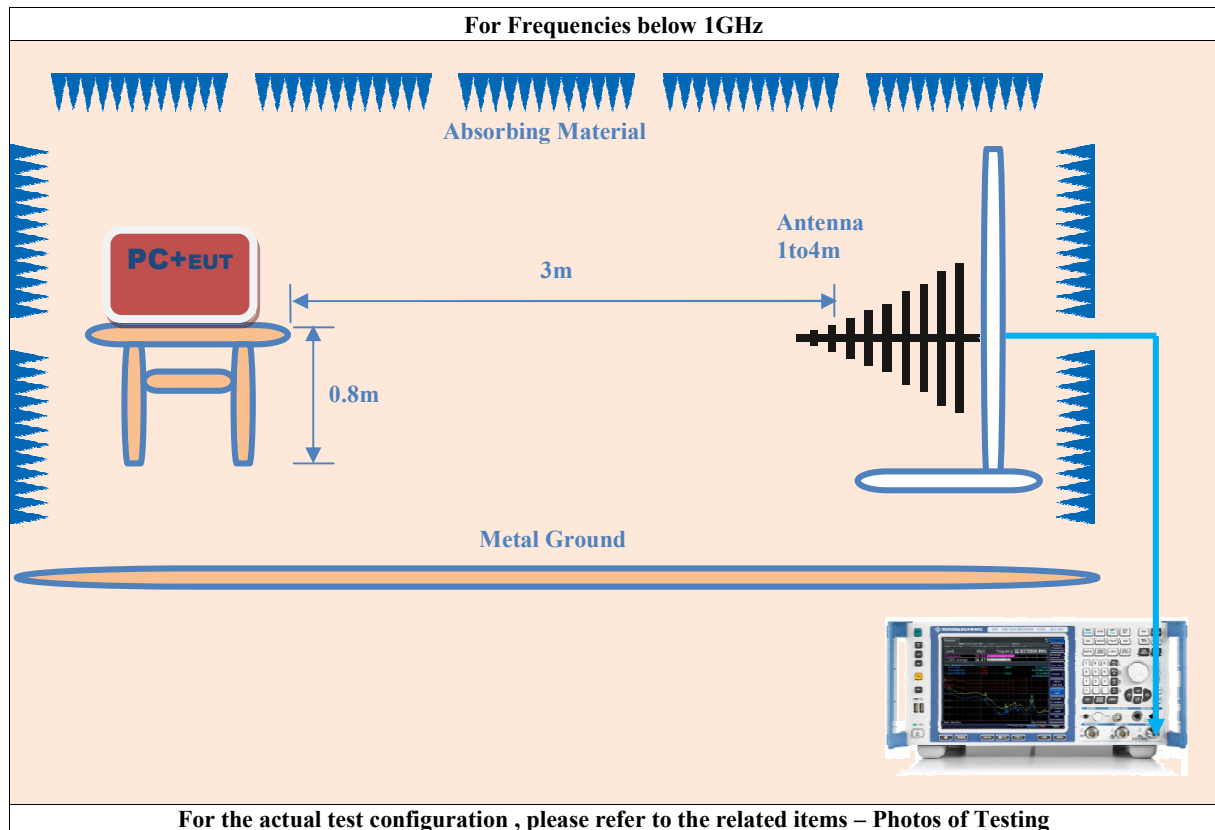
Please refer to Section 8 this report.

5.2 Test Procedure

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m, and which is 1.5 m high for above 1 GHz. All set up is according to ANSI C63.4:2014 .
3. The frequency spectrum from 9 kHz to 25 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 KHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4:2014

5.3 Radiated Test Setup





5.4 Configuration of The EUT

Same as section 4.4 of this report

5.5 EUT Operating Condition

Same as section 4.5 of this report

5.6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.109.

Frequency (MHz)	Distance (m)	Field Strength (dBuV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

Note:

1. In the emission tables above, the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.
3. The lower limit shall apply at the transition frequencies.

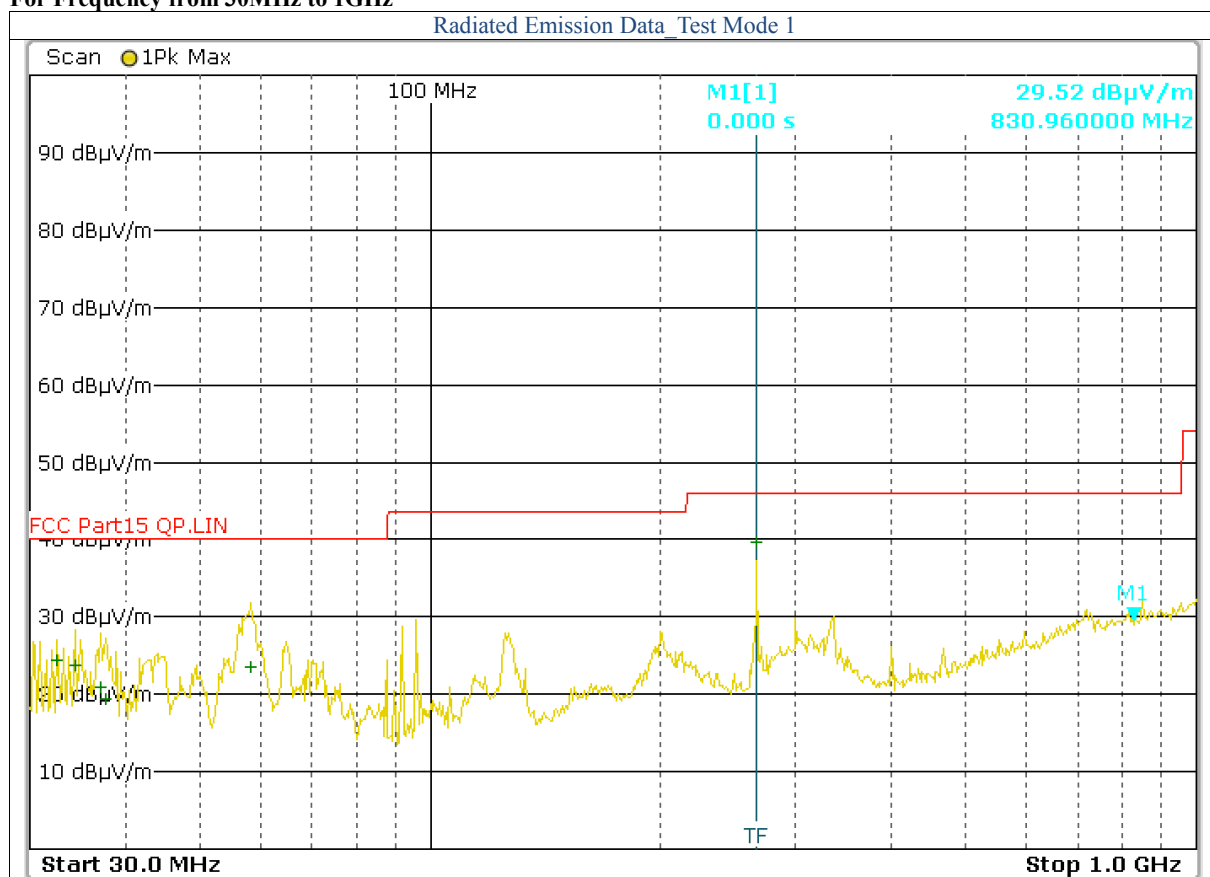
5.7 Radiated Emission Test Result

For Frequency below 30MHz

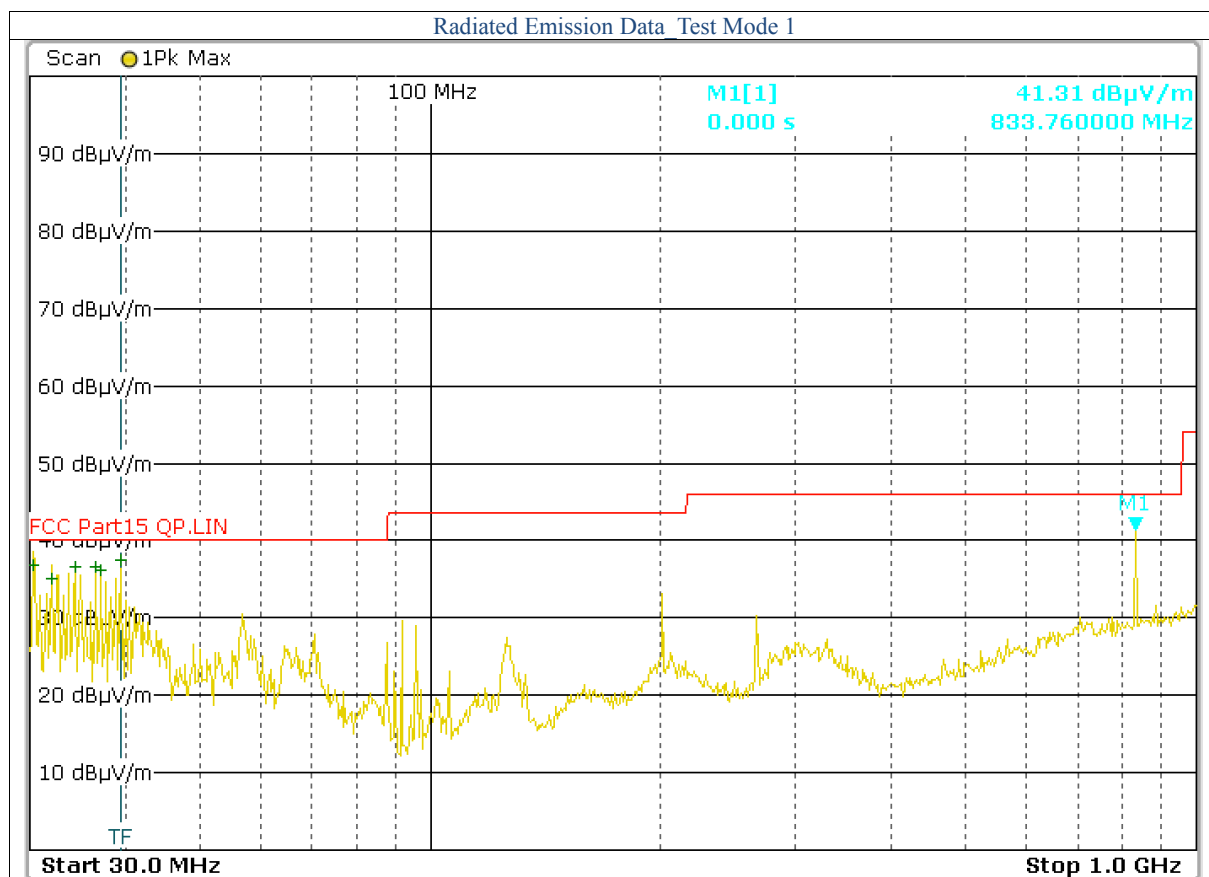
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
N/A						
N/A						
N/A						
N/A						
N/A						
N/A						

- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
 - (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

For Frequency from 30MHz to 1GHz

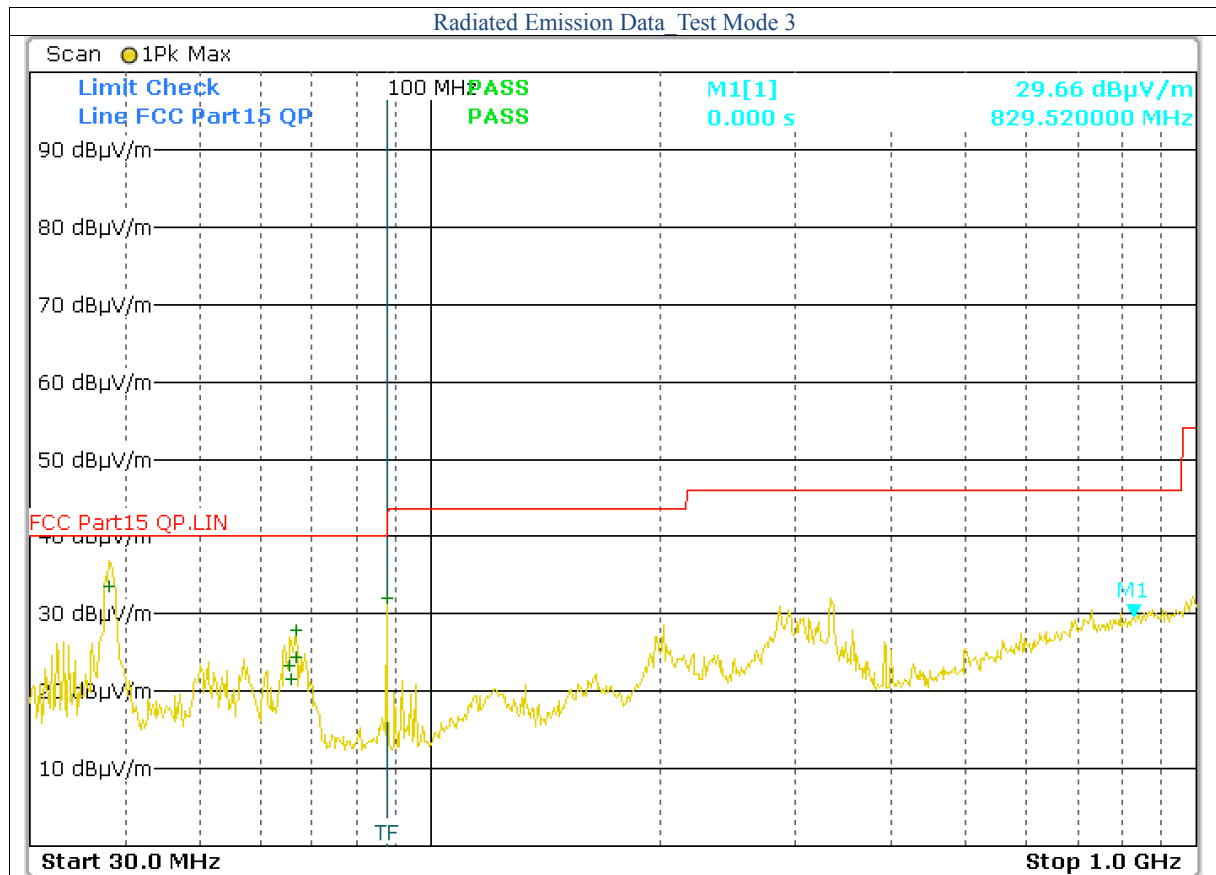


Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
32.600	12.32	12.06	24.38	Horiz./	40.0	-15.62
34.320	11.69	12.06	23.75	Horiz./	40.0	-16.25
37.080	9.21	11.78	20.99	Horiz./	40.0	-19.01
37.680	7.59	11.78	19.37	Horiz./	40.0	-20.63
58.360	12.86	10.66	23.52	Horiz./	40.0	-16.48
266.640	24.79	14.94	39.73	Horiz./	46.0	-6.27

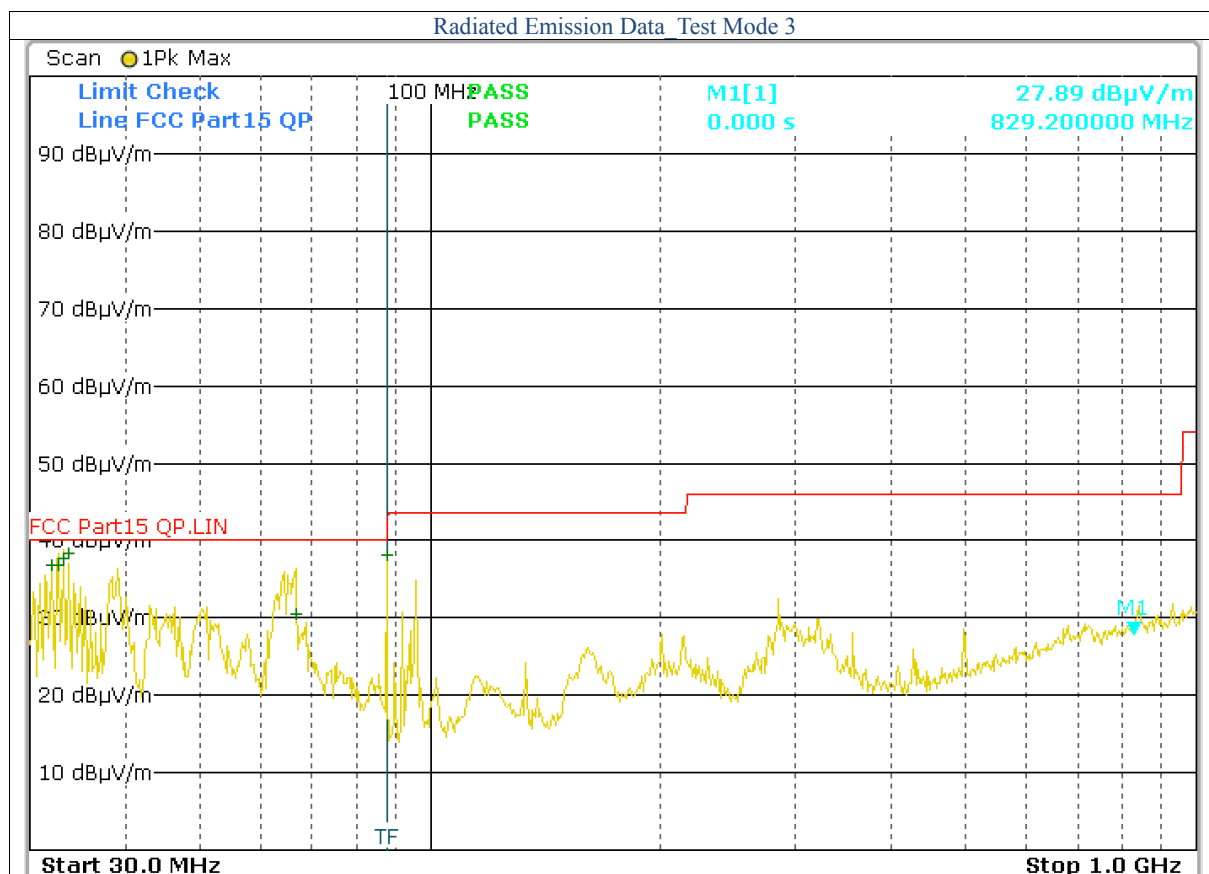


Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
30.360	24.80	12.06	36.86	Vert.	40.0	-3.14
32.080	22.91	12.06	34.97	Vert.	40.0	-5.03
34.320	24.44	12.06	36.5	Vert.	40.0	-3.50
36.560	24.87	11.78	36.65	Vert.	40.0	-3.35
37.120	24.49	11.78	36.27	Vert.	40.0	-3.73
39.360	25.77	11.78	37.55	Vert.	40.0	-2.45

- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
 - (3) Emission Level = Reading Level + Probe Factor + Cable Loss.



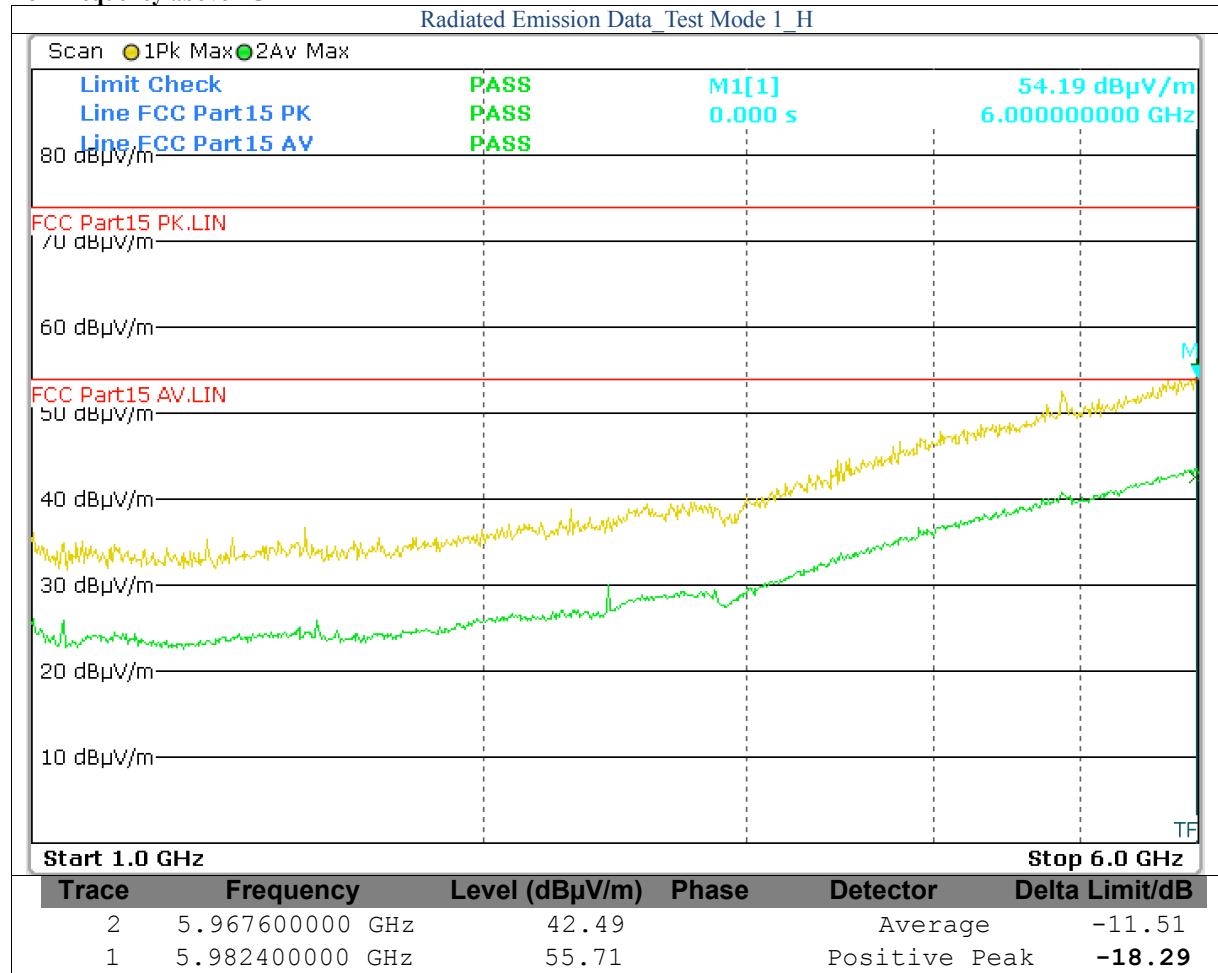
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Emission (dBμV/m)	Horiz./ Vert.	Limit (dBμV/m)	Margin (dB)
38.040	21.71	11.78	33.49	Horiz./	40.0	-6.51
65.600	14.61	8.81	23.42	Horiz./	40.0	-16.58
65.880	12.70	8.81	21.51	Horiz./	40.0	-18.49
66.640	15.57	8.81	24.38	Horiz./	40.0	-15.62
66.720	19.03	8.81	27.84	Horiz./	40.0	-12.16
87.800	24.56	7.43	31.99	Horiz./	40.0	-8.01

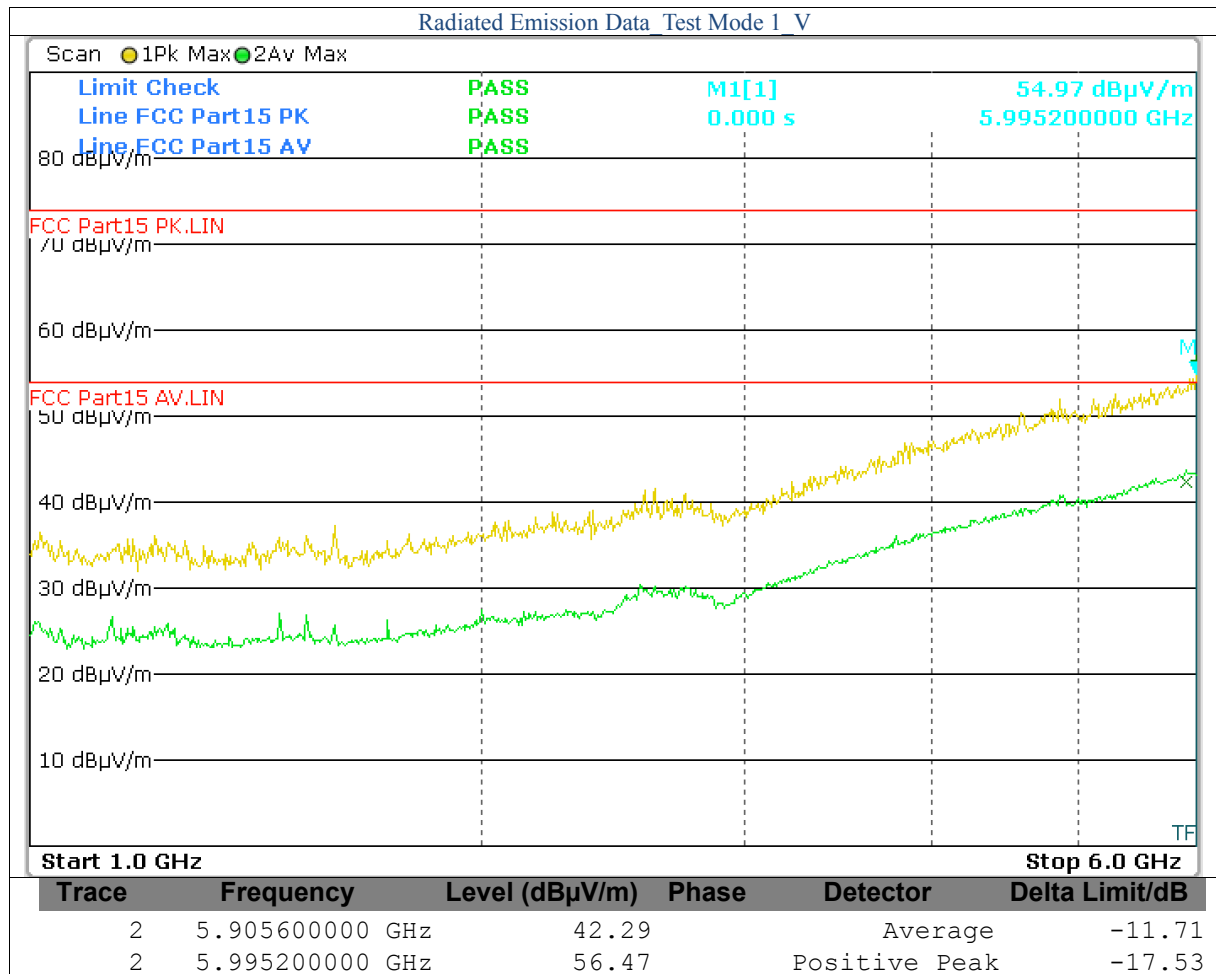


Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Emission (dBμV/m)	Horiz./ Vert.	Limit (dBμV/m)	Margin (dB)
32.040	24.80	12.06	36.86	Vert.	40.0	-3.14
32.640	24.78	12.06	36.84	Vert.	40.0	-3.16
33.160	25.73	12.06	37.79	Vert.	40.0	-2.21
33.760	25.19	12.06	37.25	Vert.	40.0	-2.75
66.720	21.77	8.81	30.58	Vert.	40.0	-9.42
87.800	29.79	7.43	37.22	Vert.	40.0	-2.78

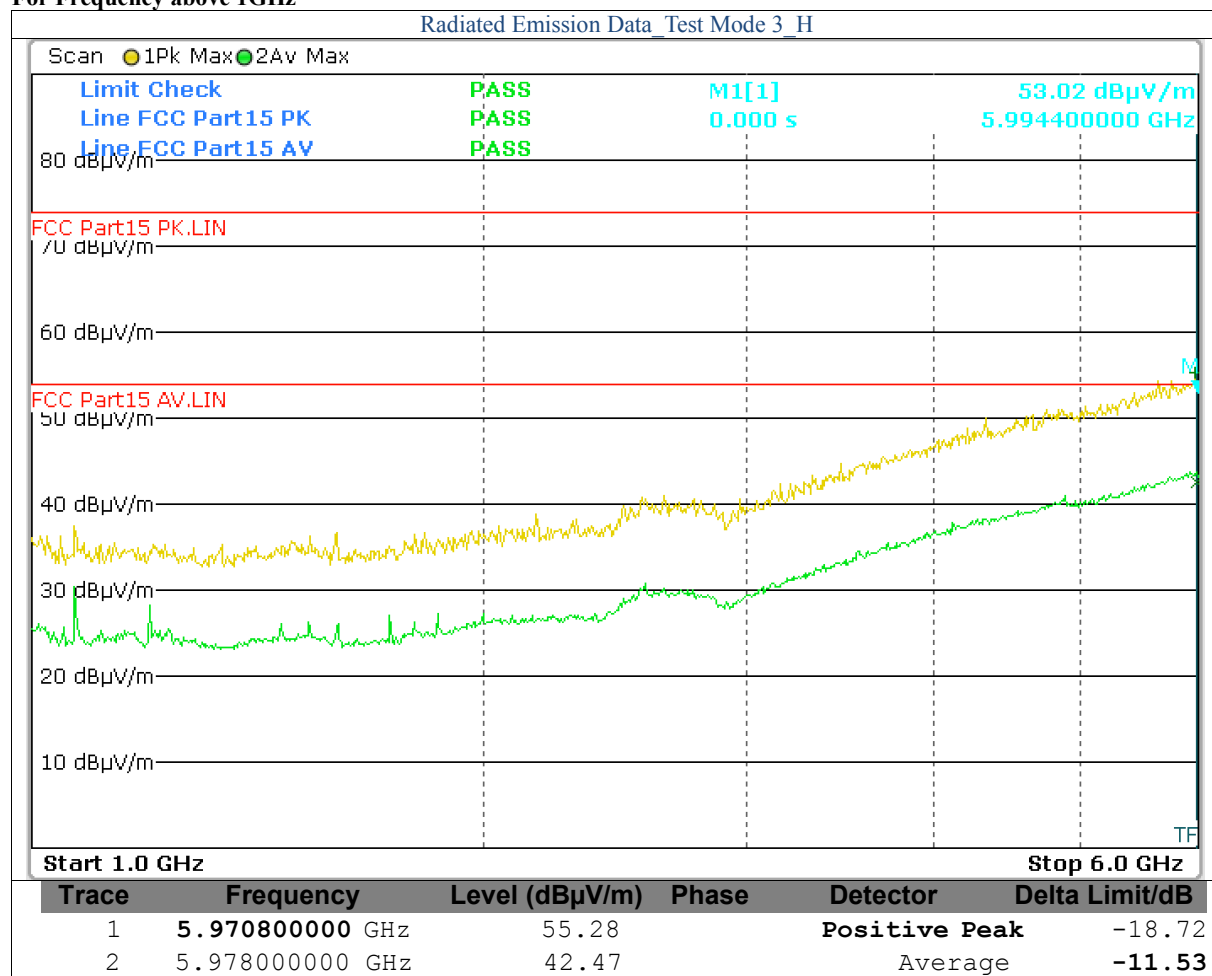
- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
 - (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

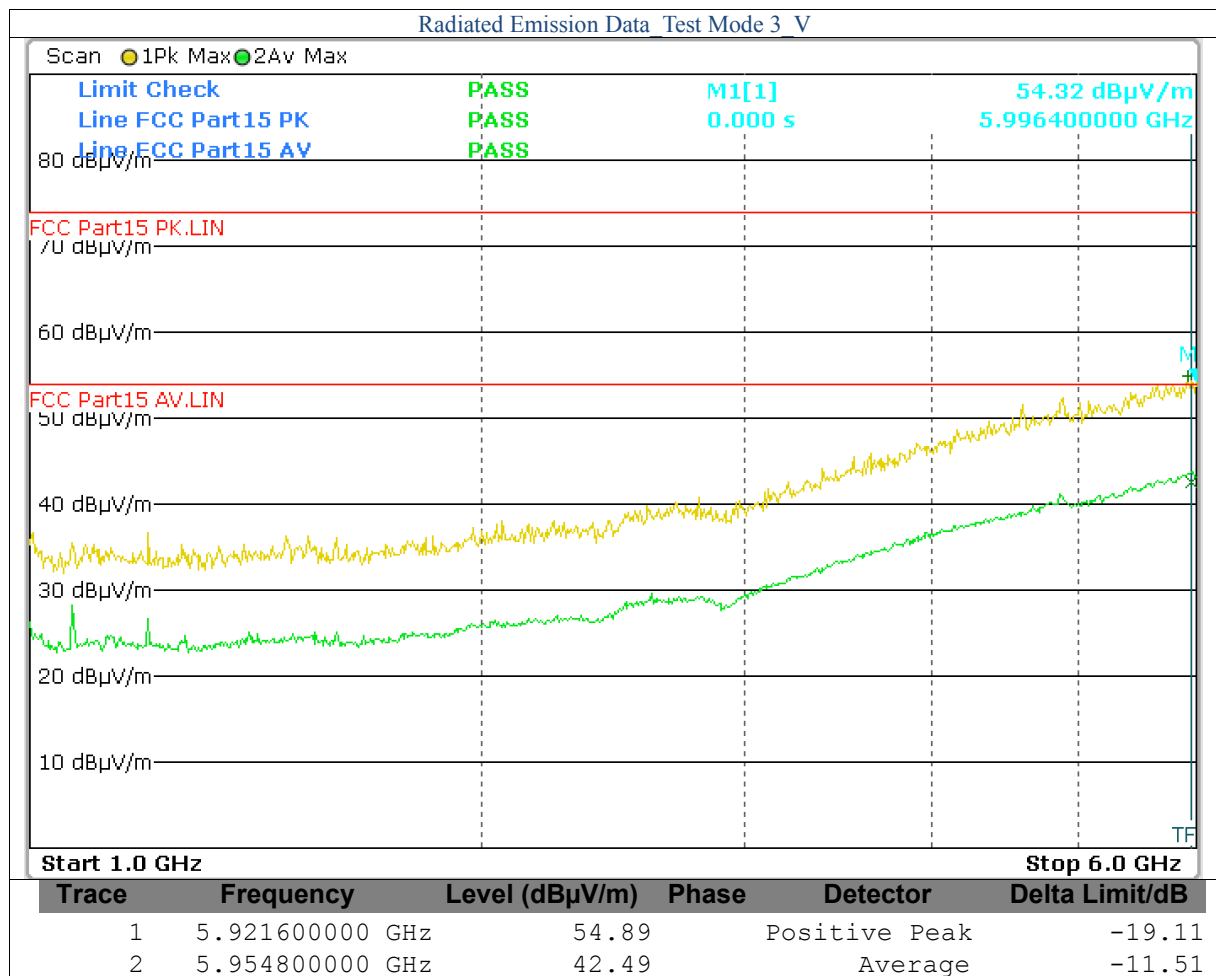
For Frequency above 1GHz





For Frequency above 1GHz





6. Photo of Testing

6.1 Emission test view

Conducted Emission test view_test mode 1



Conducted Emission test view_test mode 3



Radiated Emission test view (Below 1GHz)



Radiated Emission test view (Above 1GHz)



6.2 Photograph - EUT



EUT side view

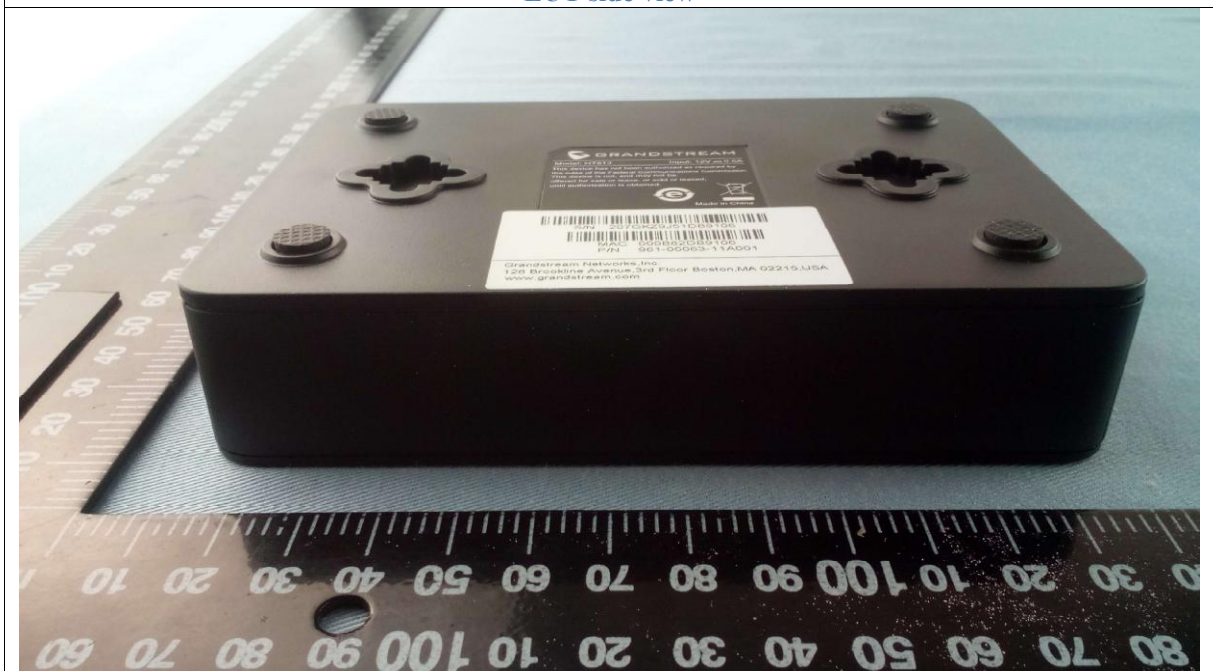


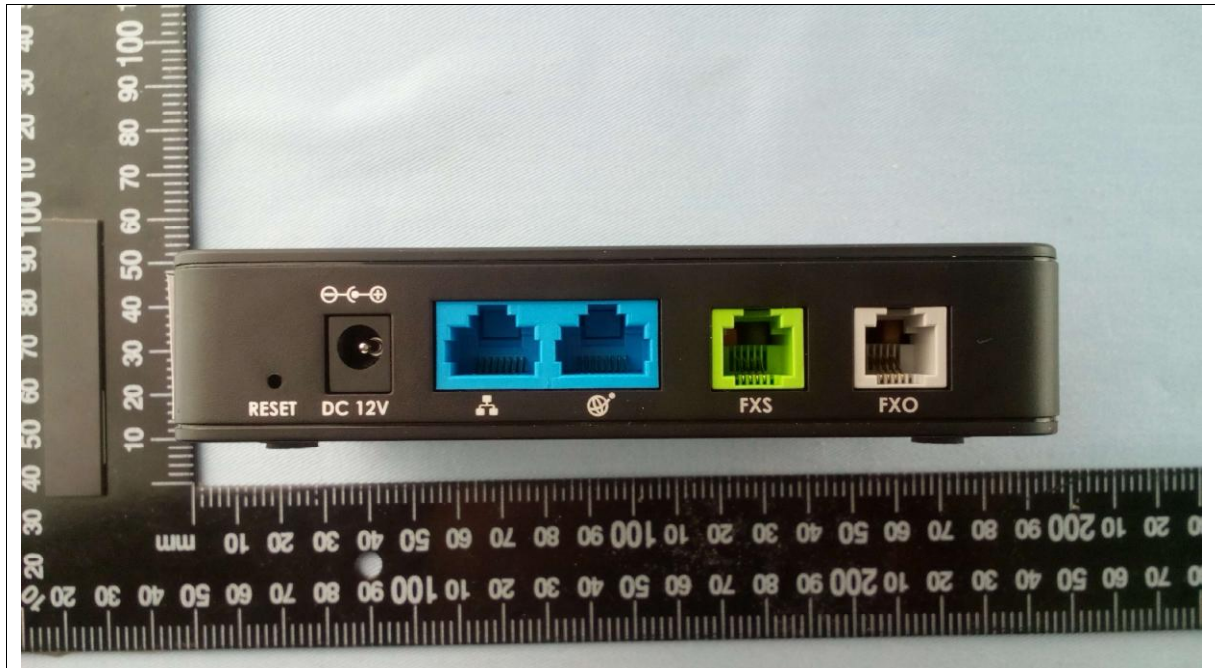
EUT Bottom view



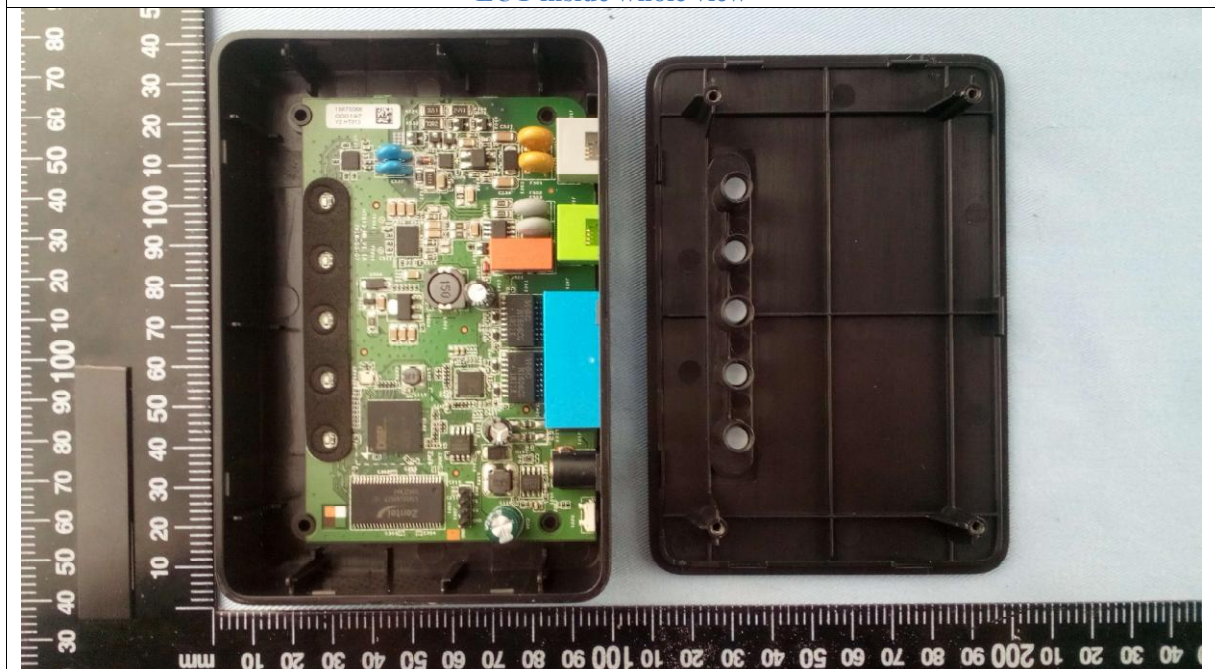


EUT side view

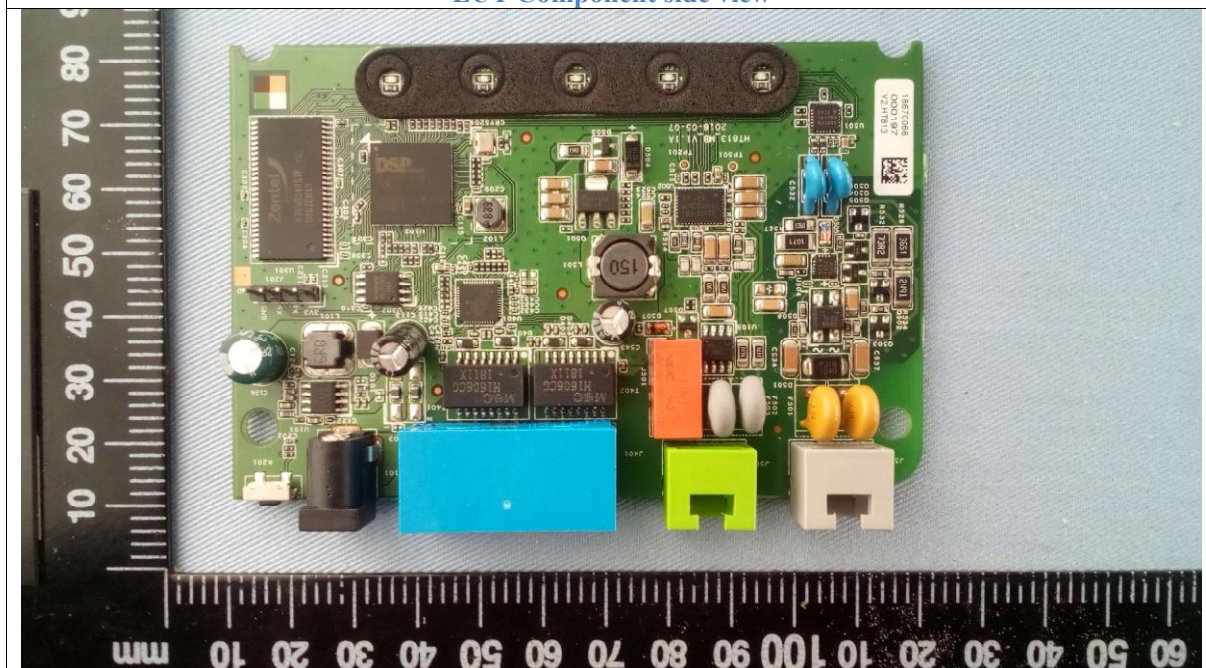




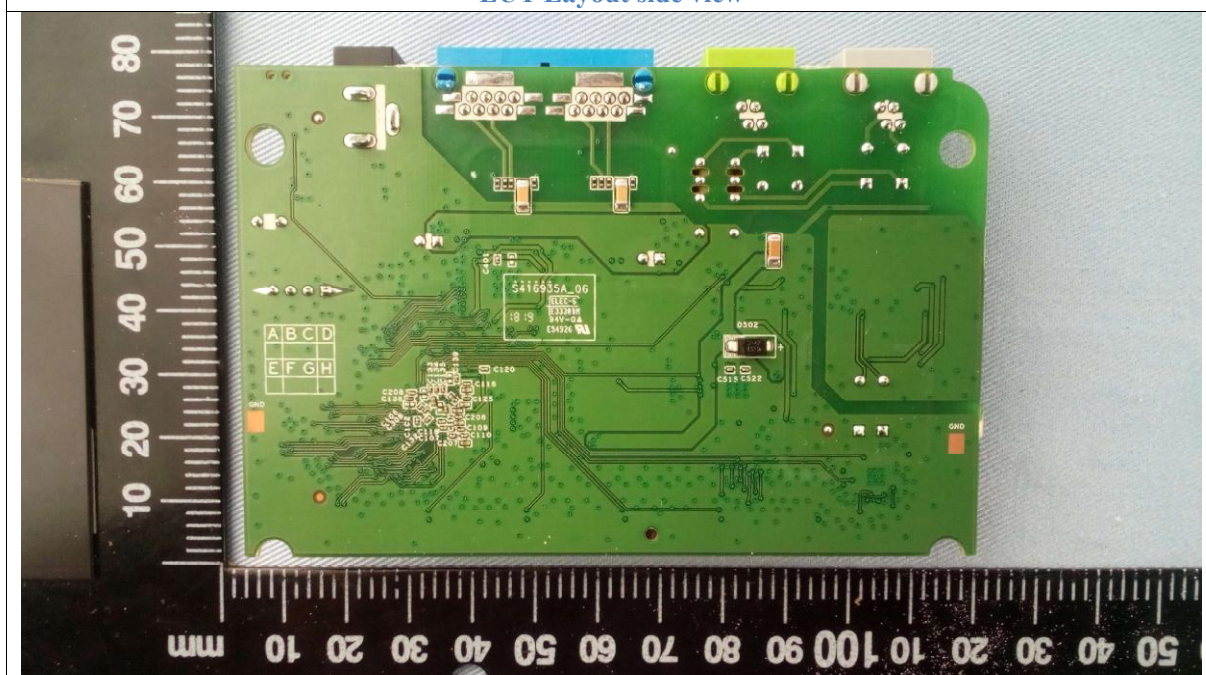
EUT inside whole view



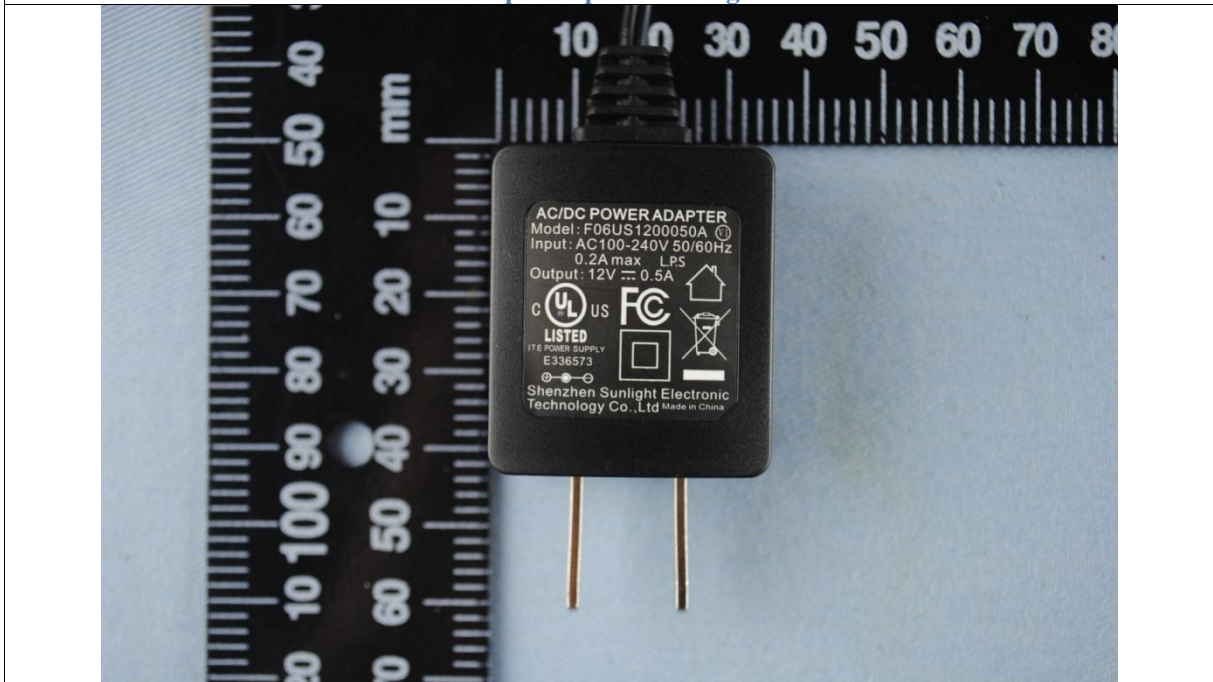
EUT Component side view



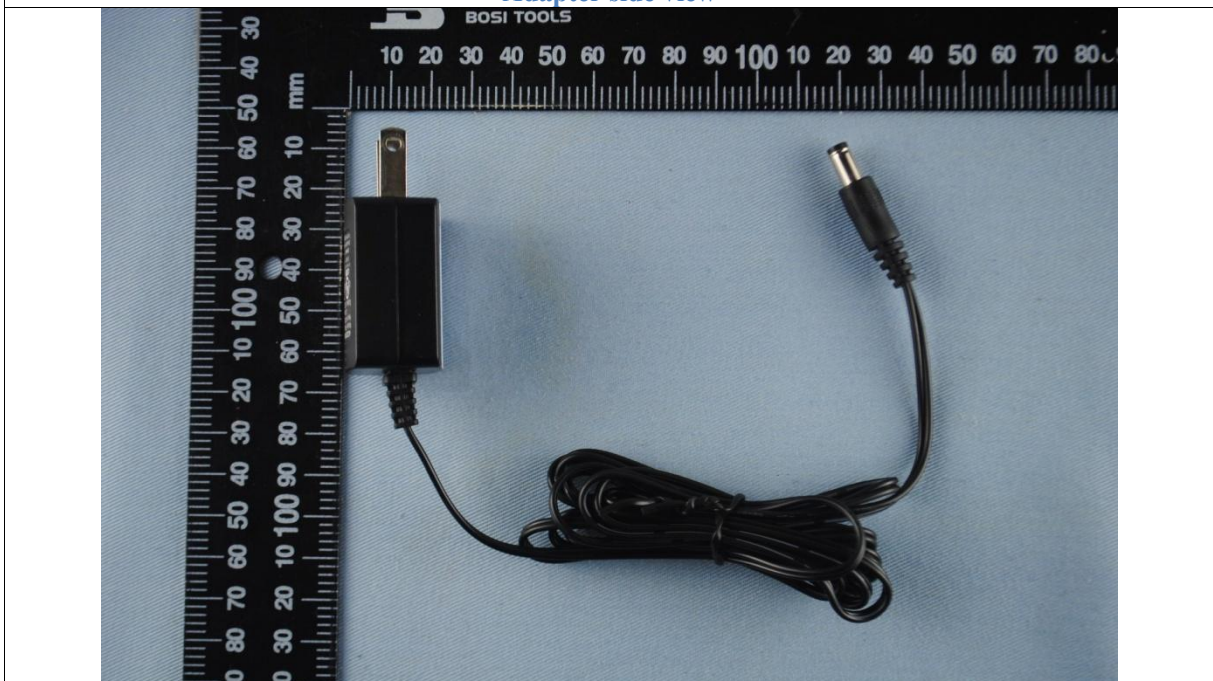
EUT Layout side view



Adapter top view sunlight



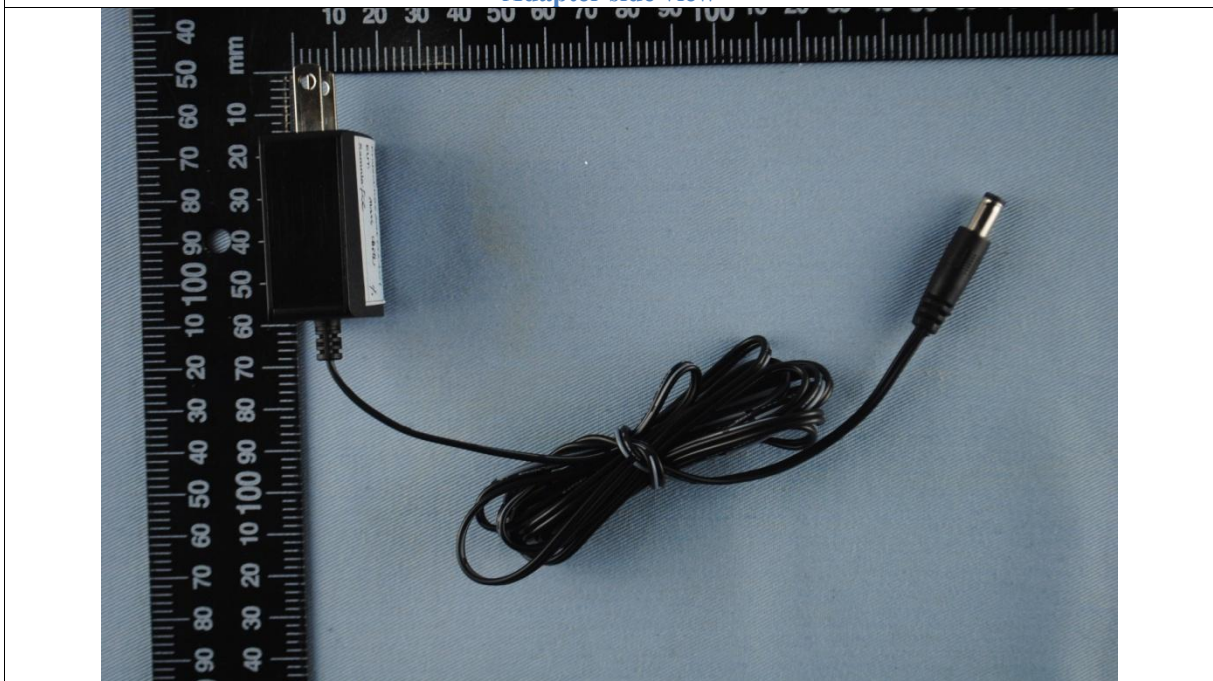
Adapter side view



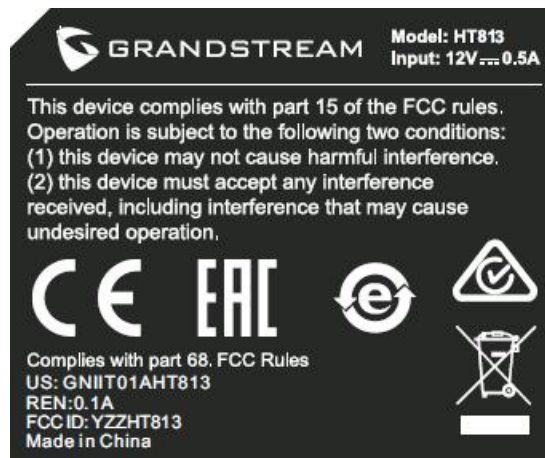
Adapter top view mass



Adapter side view



7. FCC ID Label



The following note shall be conspicuously placed in the user manual: **“Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.”**

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT



8. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Cal/Char Date	Due Date
Turntable	Innco systems GmbH	CT-0801	N/A	NCR	NCR
Antenna Tower	Innco systems GmbH	MA-4640-XP-ET	N/A	NCR	NCR
Controller	Innco systems GmbH	CO3000	955/38850716L	NCR	NCR
EMI Test Receiver	Rohde & Schwarz	ESR7	101091	Dec.6, 2016	Dec.6, 2018
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-564	August 19, 2016	August 19, 2018
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100022	Feb.21, 2018	Feb.21, 2020
AMN	Rohde & Schwarz	ESH3-Z5	100197	Dec.25, 2017	Dec.25, 2019
AMN	CYBERTEK	EM5040A	E115040054	Sep.6, 2016	Sep.6, 2018
KMO Shielded Room	KMO	KMO-001	N/A	NCR	NCR
3m Anechoic Chamber	KMO	KMO-3AC	N/A	Dec.23, 2017	Dec.23, 2019