

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

DEI Sales, Inc., dba Polk Audio

Home Theater Sound Bar System

Model Number: MAGNIFI MINI SOUND BAR

FCC ID : WLQAM9116TX

Prepared for : DEI Sales, Inc., dba Polk Audio
1 Viper Way Vista, California 92801, USA

Prepared By : EST Technology Co., Ltd.
San Tun Management Zone, Houjie Town, Dongguan,
Guangdong, China



Tel: 86-769-83081888-808

Report Number: ESTE-R1608054
Date of Test : July 07 ~ August 10, 2016
Date of Report : August 17, 2016

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Test Report Verification

Applicant:	DEI Sales, Inc., dba Polk Audio		
Address:	1 Viper Way Vista, California 92801, USA		
Manufacturer	Polk Audio LLC		
Address:	1 Viper Way Vista, California 92801, USA		
E.U.T:	Home Theater Sound Bar System		
Model Number:	MAGNIFI MINI SOUND BAR		
Power Supply:	DC 15V From Adapter Input AC 100-240V~50/60Hz		
Test Voltage:	DC 15V From Adapter Input AC 120V/60Hz DC 15V From Adapter Input AC 240V/60Hz		
Trade Name:	Polk	Serial No.:	-----
Date of Receipt:	July 07, 2016	Date of Test:	July 07 ~ August 10, 2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013		
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 style="text-align: center;">This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: August 17, 2016</p>		
Prepared by:	Tested by:	Approved by:	
			
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>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.</i>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Home Theater Sound Bar System
FCC ID	:	WLQAM9116TX
Model Number	:	MAGNIFI MINI SOUND BAR
Operation frequency	:	5743-5840 MHz
Number of channel	:	35
Antenna	:	PCB antenna Antenna A: 2.85 dBi gain Antenna B: 2.85 dBi gain Single input single output
Modulation	:	GFSK
Sample Type	:	Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emissions	FCC Part 15C: 15.207 ANSI C63.10-2013	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2013	PASS
20 dB Bandwidth Test	FCC Part 15: 15.249 ANSI C63.10-2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.215 ANSI C63.10-2013	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
N/A is an abbreviation for Not Applicable.		

2.2. Test Facilities

EMC Lab : Certified by CNAL, CHINA
Registration No.: L5288
Date of registration: December 07, 2015

 Certified by FCC, USA
Registration No.: 989591
Date of registration: November 20, 2013

 Certified by Industry Canada
Registration No.: 9405A-1
Date of registration: December 30, 2015

 Certified by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

 Certified by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

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

 Certified by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

 Certified by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

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

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie District, Dongguan,
Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
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.

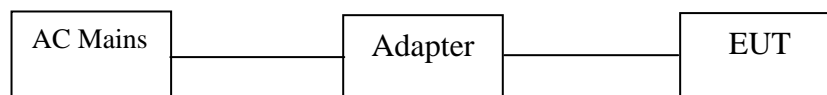
2.4. Assistant equipment used for test

2.4.1. Adapter

M/N : NU040A150250
 Input : AC 100-240V~50/60Hz 1.5A MAX
 Output : DC 15V/2.5A

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 be set into TX test mode by software before test.



(EUT: Home Theater Sound Bar System)

2.6. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
TX	Low	5743MHz
	Middle	5792MHz
	High	5840MHz

2.7. Channel List for GFSK

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	5743	2	5747
3	5751	4	5752
5	5755	6	5758
7	5759	8	5763
9	5767	10	5771
11	5772	12	5775
13	5778	14	5779
15	5783	16	5787
17	5791	18	5792
19	5795	20	5798
21	5799	22	5803
23	5807	24	5811
25	5812	26	5815
27	5818	28	5819
29	5823	30	5827
31	5831	32	5832
33	5835	34	5837
35	5840	--	----

2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 25,16	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June 25,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 25,16	1 Year

2.8.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 25,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 28,16	3 Year
Signal Amplifier	Agilent	310N	187037	June 25,16	1 Year

2.8.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	BBHA9120D1 002	June 28,16	3 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 25,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 25,16	1 Year

3. CONDUCTED EMISSION TEST

3.1. Limit

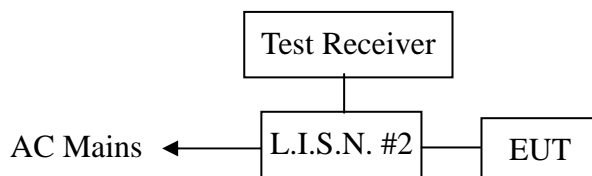
Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.2. Block Diagram of Test Setup

Block diagram of connection between the EUT and simulators



3.3. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of 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 C63.10 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

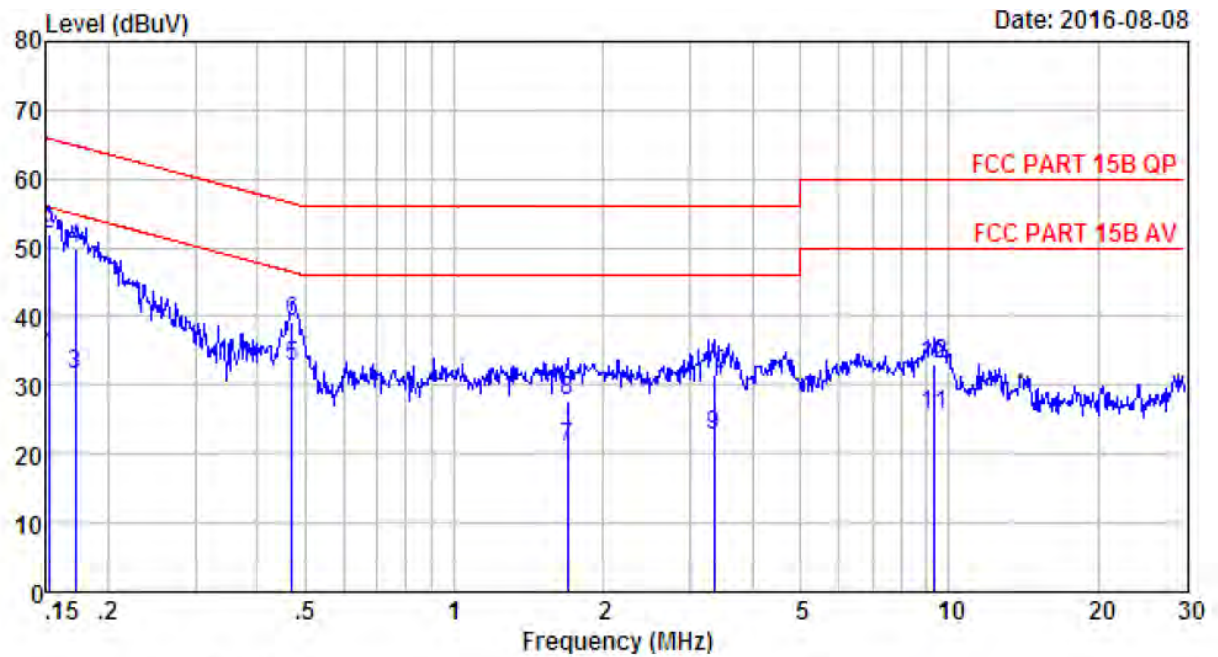
The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.4.

3.4. Test Result

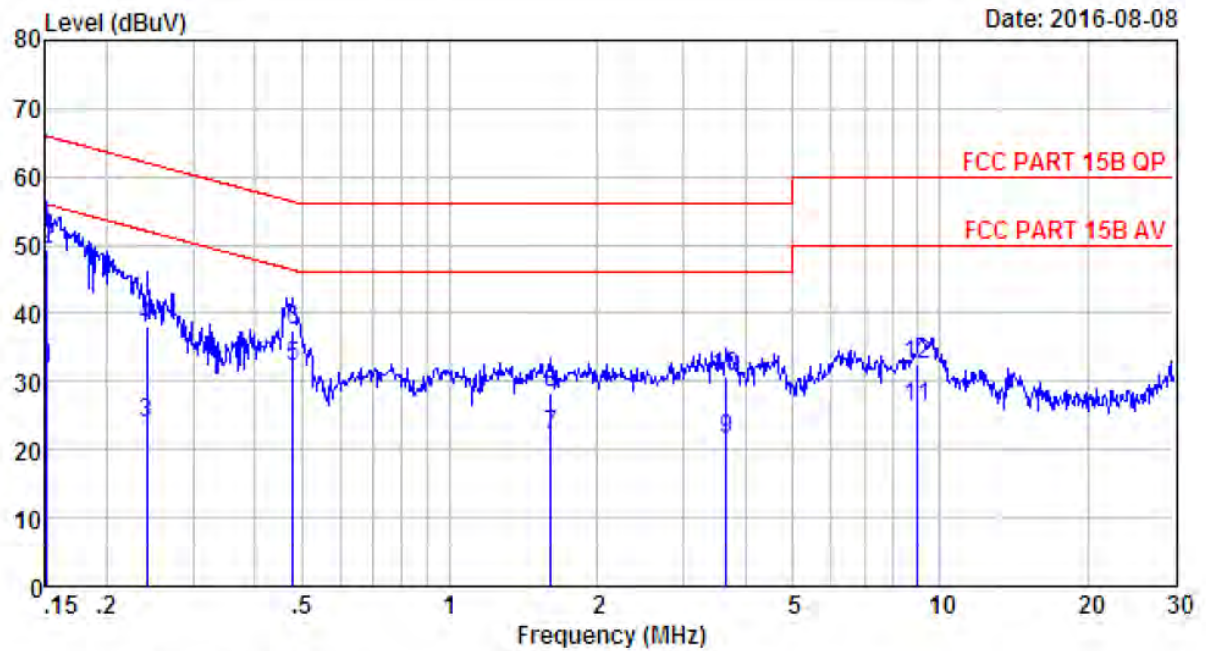
0.15MHz—30MHz Conducted emissison Test result	
EUT: Home Theater Sound Bar System	M/N: MAGNIFI MINI SOUND BAR
Power: AC 120V/60Hz; AC 240V/60Hz	
Test date: 2016-08-08 Test site: 844 Chamber	Tested by: Tony.Tang
Test mode: Tx	
Pass	

3.5. Test Data



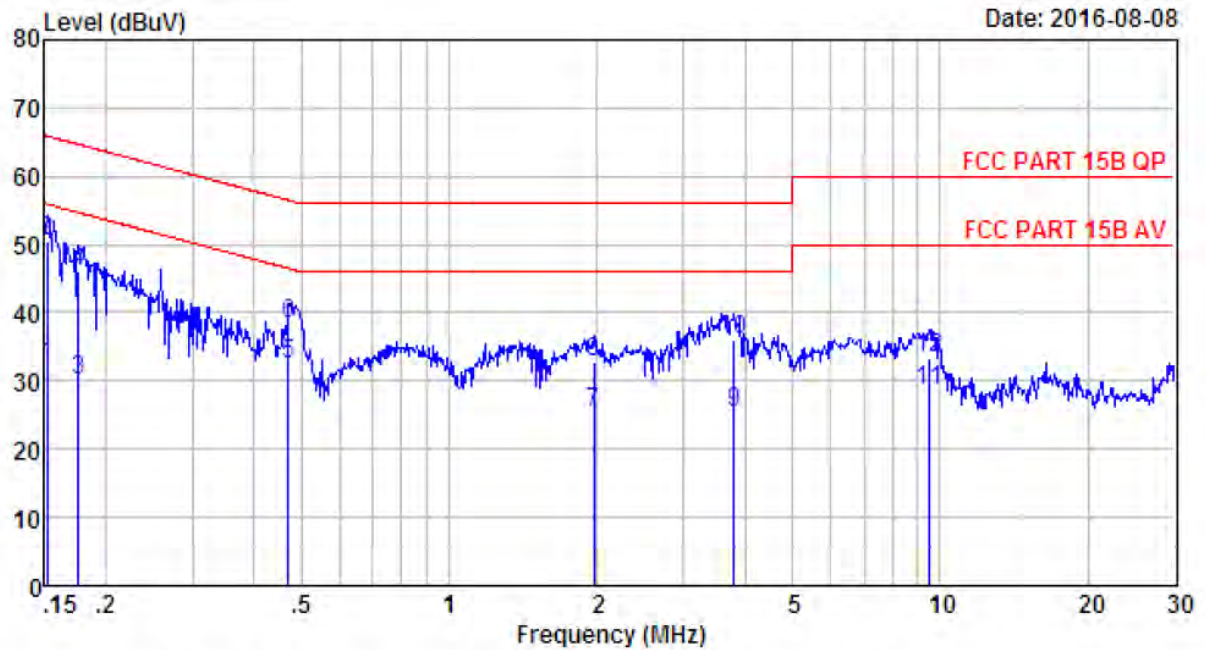
Site no : 844 Shield Room Data no. : 105
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.61	9.81	14.73	34.15	55.91	21.76	Average
2	0.15	9.61	9.81	32.58	52.00	65.91	13.91	QP
3	0.17	9.61	9.81	12.17	31.59	54.90	23.31	Average
4	0.17	9.61	9.81	30.51	49.93	64.90	14.97	QP
5	0.47	9.61	9.81	13.29	32.71	46.49	13.78	Average
6	0.47	9.61	9.81	19.83	39.25	56.49	17.24	QP
7	1.70	9.62	9.83	1.38	20.83	46.00	25.17	Average
8	1.70	9.62	9.83	8.42	27.87	56.00	28.13	QP
9	3.35	9.63	9.84	3.35	22.82	46.00	23.18	Average
10	3.35	9.63	9.84	12.08	31.55	56.00	24.45	QP
11	9.35	9.66	9.87	6.01	25.54	50.00	24.46	Average
12	9.35	9.66	9.87	13.41	32.94	60.00	27.06	QP



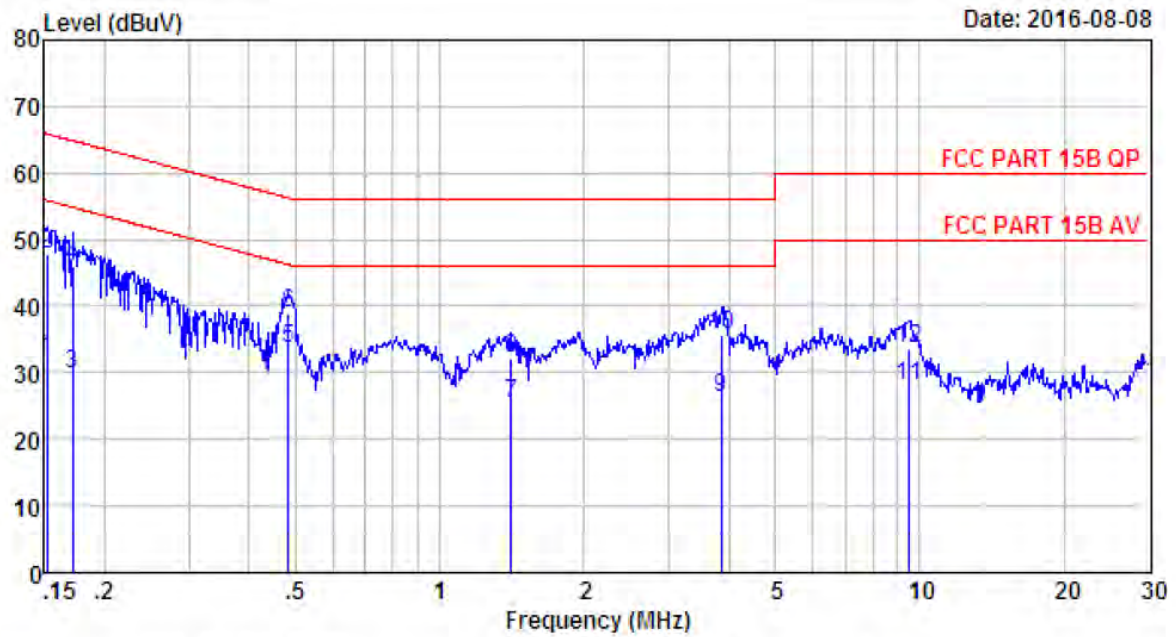
Site no : 844 Shield Room Data no. : 107
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.46	9.81	12.69	31.96	55.96	24.00	Average
2	0.15	9.46	9.81	30.15	49.42	65.96	16.54	QP
3	0.24	9.60	9.82	4.46	23.88	52.04	28.16	Average
4	0.24	9.60	9.82	18.66	38.08	62.04	23.96	QP
5	0.48	9.59	9.81	12.73	32.13	46.36	14.23	Average
6	0.48	9.59	9.81	17.95	37.35	56.36	19.01	QP
7	1.61	9.62	9.83	2.67	22.12	46.00	23.88	Average
8	1.61	9.62	9.83	8.81	28.26	56.00	27.74	QP
9	3.66	9.64	9.85	2.09	21.58	46.00	24.42	Average
10	3.66	9.64	9.85	11.23	30.72	56.00	25.28	QP
11	9.01	9.69	9.88	6.83	26.40	50.00	23.60	Average
12	9.01	9.69	9.88	12.88	32.45	60.00	27.55	QP



Site no : 844 Shield Room Data no. : 109
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 240V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.61	9.81	12.79	32.21	55.91	23.70	Average
2	0.15	9.61	9.81	30.92	50.34	65.91	15.57	QP
3	0.18	9.61	9.80	10.67	30.08	54.68	24.60	Average
4	0.18	9.61	9.80	26.56	45.97	64.68	18.71	QP
5	0.47	9.61	9.81	12.94	32.36	46.49	14.13	Average
6	0.47	9.61	9.81	19.01	38.43	56.49	18.06	QP
7	1.97	9.61	9.83	5.96	25.40	46.00	20.60	Average
8	1.97	9.61	9.83	13.30	32.74	56.00	23.26	QP
9	3.80	9.64	9.84	6.03	25.51	46.00	20.49	Average
10	3.80	9.64	9.84	16.43	35.91	56.00	20.09	QP
11	9.50	9.66	9.87	9.01	28.54	50.00	21.46	Average
12	9.50	9.66	9.87	13.97	33.50	60.00	26.50	QP



Site no : 844 Shield Room Data no. : 111
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 240V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.46	9.81	12.74	32.01	55.91	23.90	Average
2	0.15	9.46	9.81	28.67	47.94	65.91	17.97	QP
3	0.17	9.52	9.81	10.52	29.85	54.90	25.05	Average
4	0.17	9.52	9.81	26.78	46.11	64.90	18.79	QP
5	0.48	9.59	9.81	14.32	33.72	46.27	12.55	Average
6	0.48	9.59	9.81	19.69	39.09	56.27	17.18	QP
7	1.41	9.61	9.82	6.07	25.50	46.00	20.50	Average
8	1.41	9.61	9.82	12.68	32.11	56.00	23.89	QP
9	3.86	9.64	9.84	6.75	26.23	46.00	19.77	Average
10	3.86	9.64	9.84	16.34	35.82	56.00	20.18	QP
11	9.50	9.69	9.87	8.38	27.94	50.00	22.06	Average
12	9.50	9.69	9.87	14.20	33.76	60.00	26.24	QP

4. RADIATED EMISSIONS

4.1. Limit

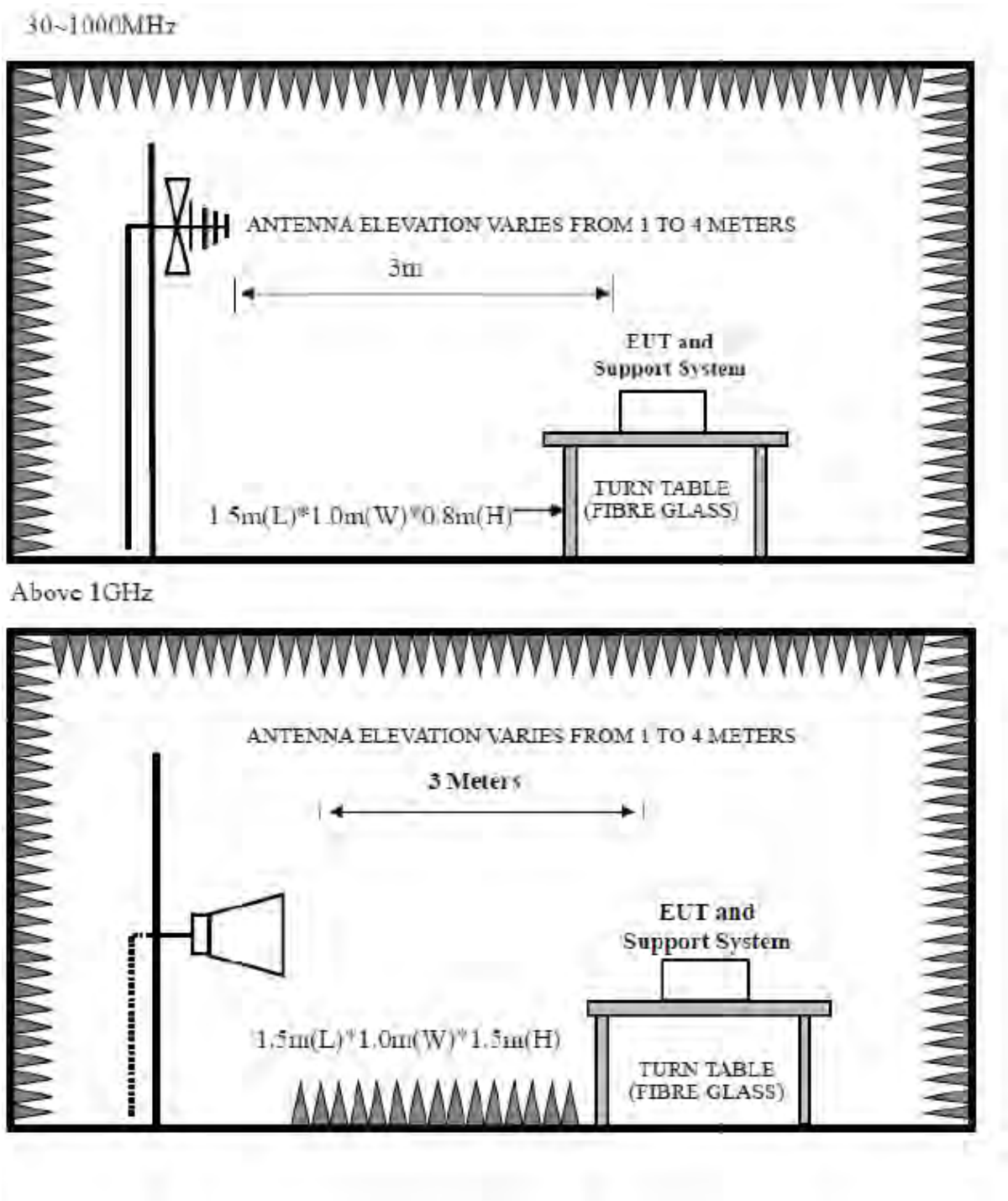
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$

(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

4.2. Block Diagram of Test setup



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 30~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. 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.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

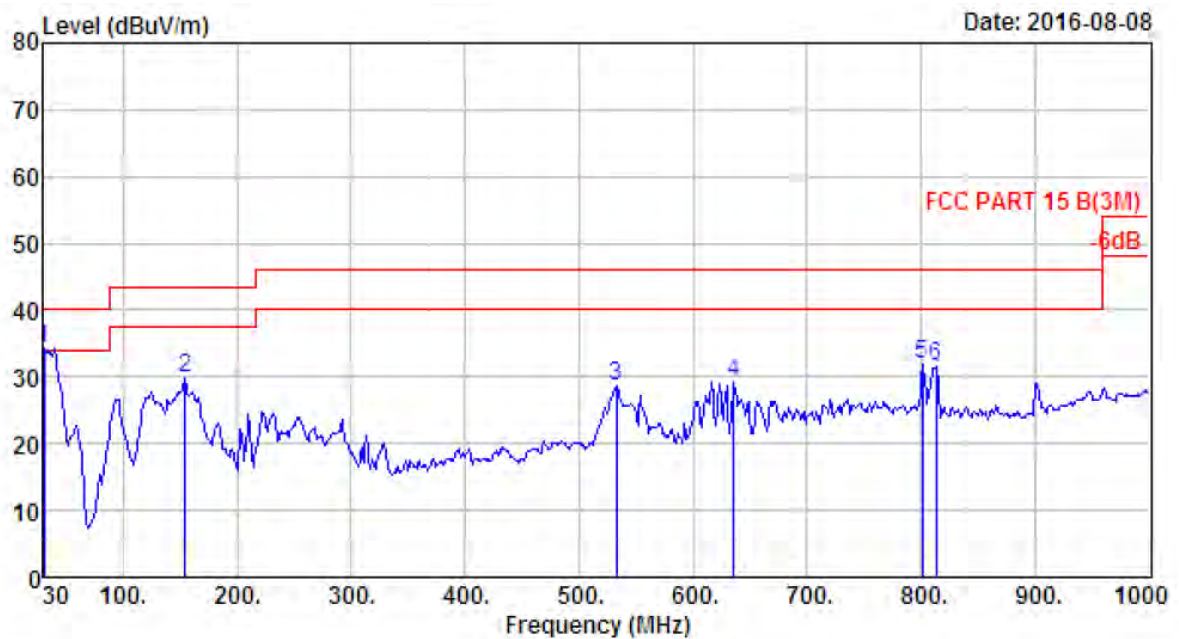
30MHz—25GHz Radiated emission Test result	
EUT: Home Theater Sound Bar System	M/N: MAGNIFI MINI SOUND BAR
Power: AC 120V/60Hz	
Test date: 2016-08-08	Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx	
Pass	

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 5743MHz 、 5792MHz and 5840MHz 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.

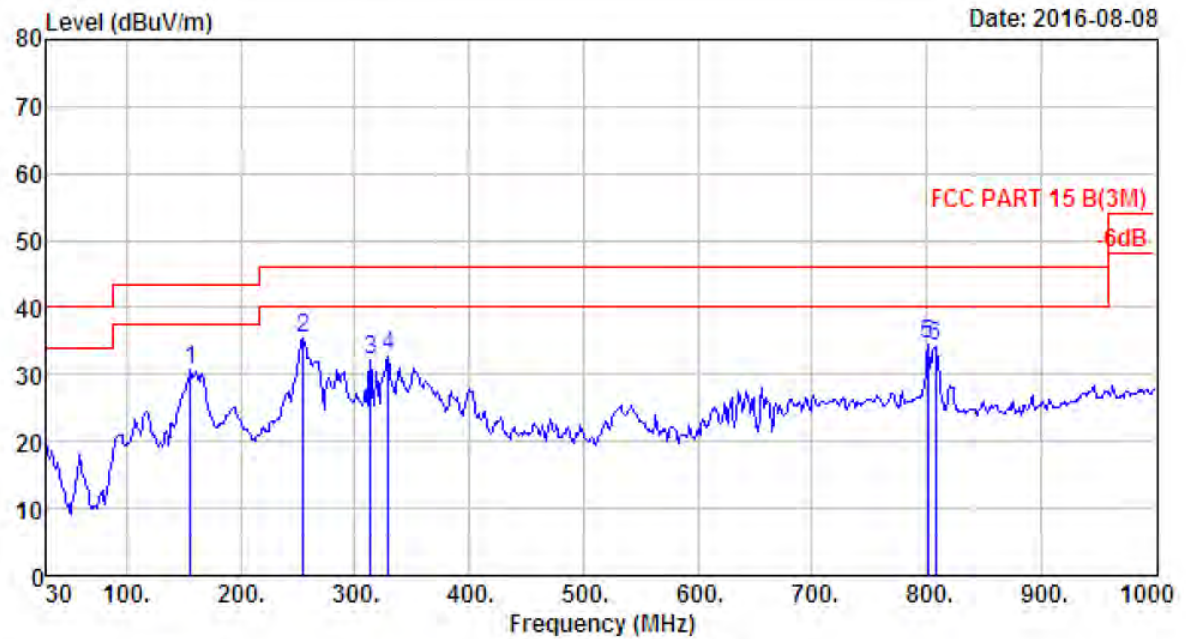
4.5. Test Data

30 MHz – 1000 MHz



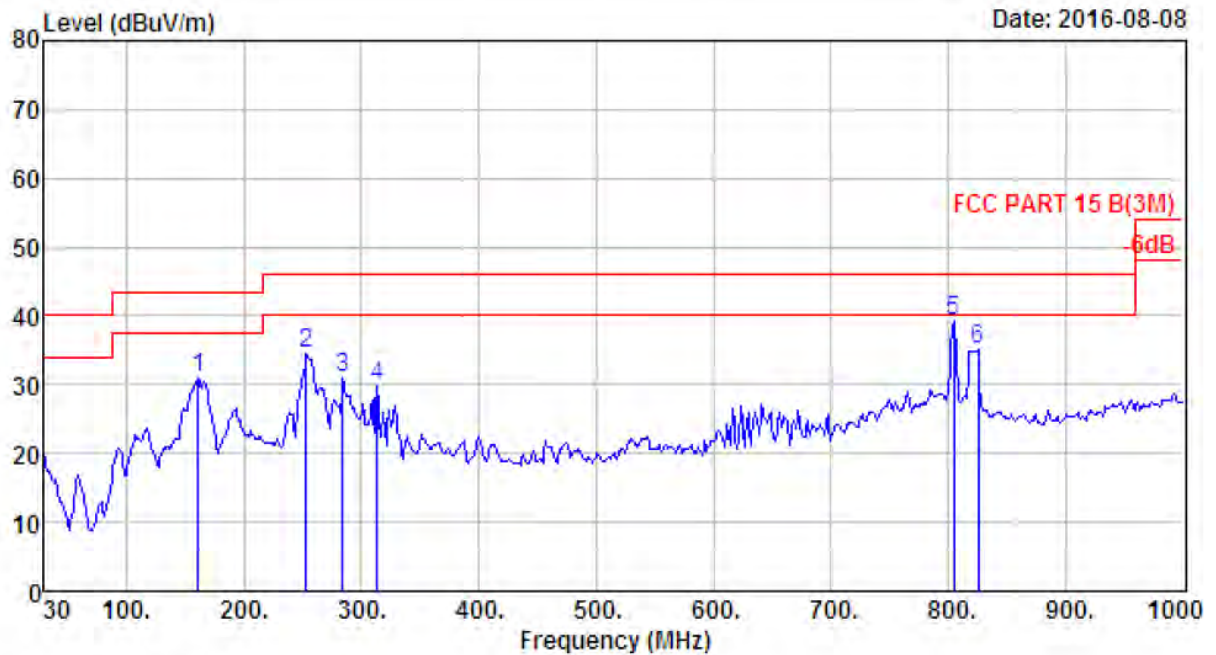
Site no. : 966 1# chamber Data no. : 459
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna A

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.13	34.29	40.00	5.71	QP
2	154.16	10.71	1.66	17.36	29.73	43.50	13.77	QP
3	532.46	18.57	3.25	6.83	28.65	46.00	17.35	QP
4	636.25	20.07	3.50	5.80	29.37	46.00	16.63	QP
5	801.15	22.07	3.83	6.09	31.99	46.00	14.01	QP
6	813.76	22.36	3.85	5.25	31.46	46.00	14.54	QP



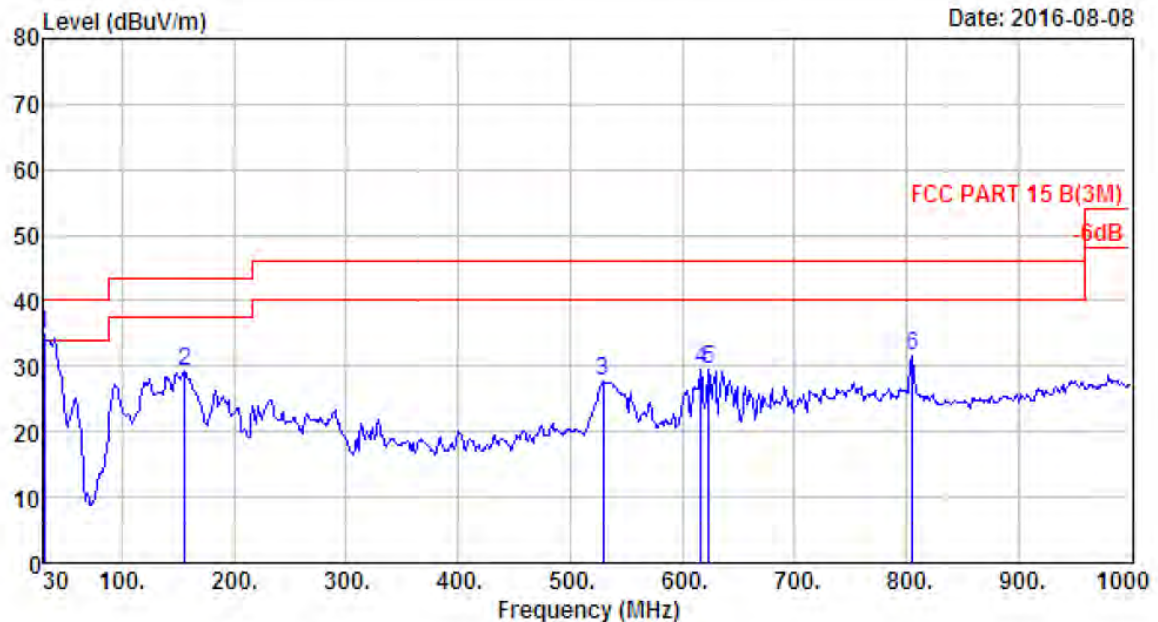
Site no. : site Data no. : 460
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna A

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	156.10	10.61	1.67	18.29	30.57	43.50	12.93	QP
2	255.04	12.41	2.13	20.95	35.49	46.00	10.51	QP
3	313.24	13.31	2.44	16.44	32.19	46.00	13.81	QP
4	328.76	13.82	2.44	16.57	32.83	46.00	13.17	QP
5	801.15	22.07	3.83	8.51	34.41	46.00	11.59	QP
6	807.94	22.31	3.80	8.03	34.14	46.00	11.86	QP



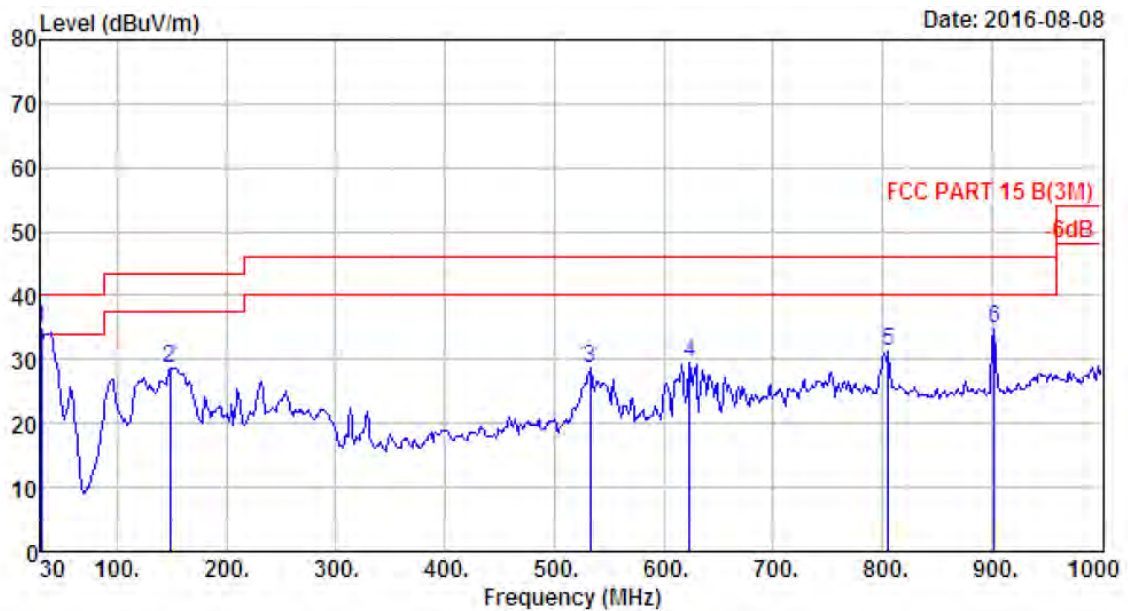
Site no. : 966 1# chamber Data no. : 461
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna A

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	160.95	10.24	1.70	19.16	31.10	43.50	12.40	QP
2	253.10	12.17	2.17	20.06	34.40	46.00	11.60	QP
3	284.14	12.52	2.36	16.18	31.06	46.00	14.94	QP
4	313.24	13.31	2.44	14.11	29.86	46.00	16.14	QP
5	805.03	22.20	3.86	13.06	39.12	46.00	6.88	QP
6	825.40	22.43	3.81	8.82	35.06	46.00	10.94	QP



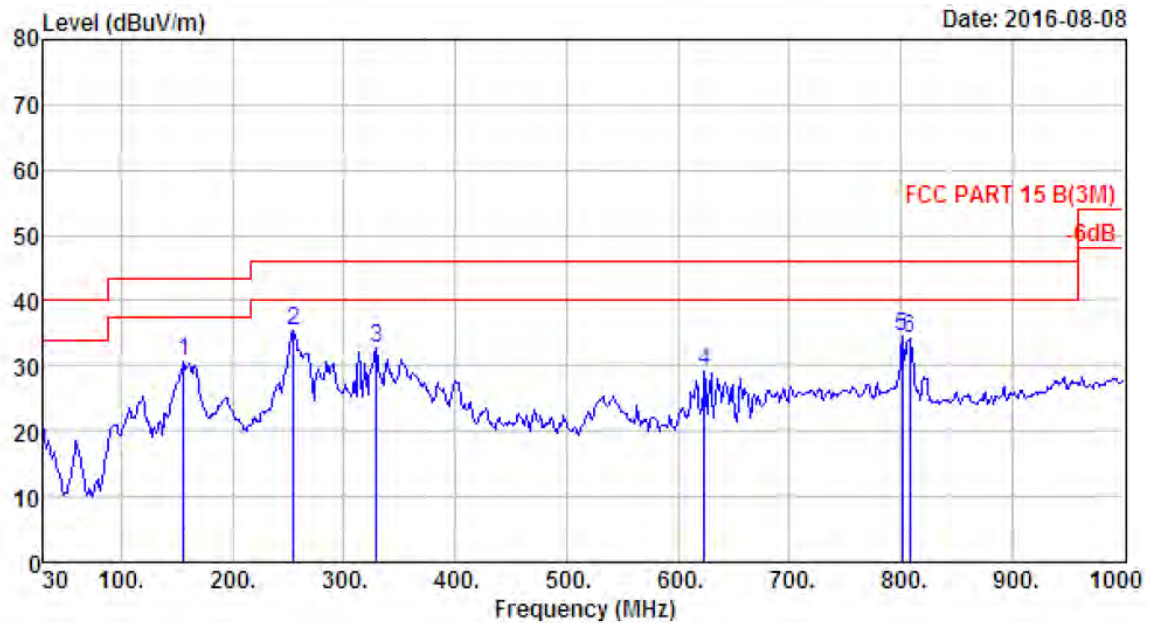
Site no. : 966 1# chamber Data no. : 462
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna A

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.68	34.84	40.00	5.16	QP
2	156.10	10.61	1.67	17.09	29.37	43.50	14.13	QP
3	529.55	18.23	3.21	6.41	27.85	46.00	18.15	QP
4	616.85	19.99	3.46	6.10	29.55	46.00	16.45	QP
5	623.64	20.08	3.37	6.08	29.53	46.00	16.47	QP
6	806.00	22.24	3.84	5.60	31.68	46.00	14.32	QP



Site no. : 966 1# chamber Data no. : 463
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna A

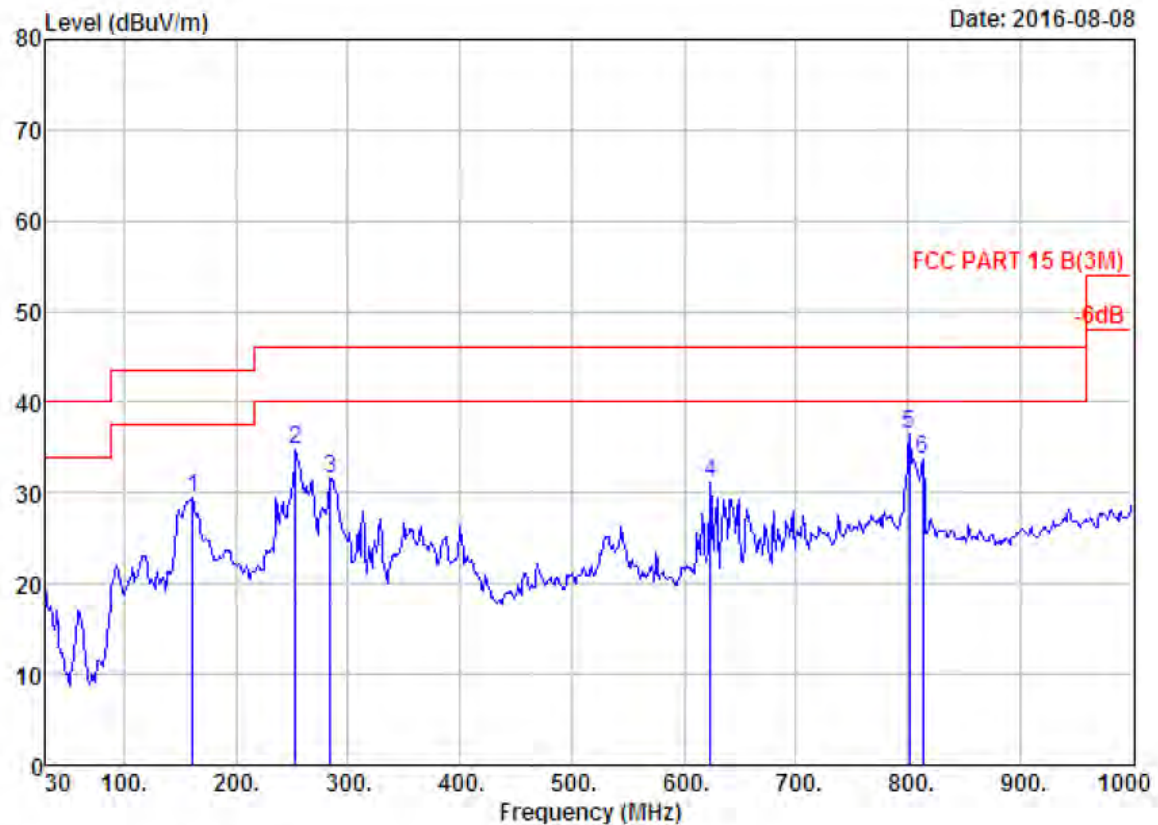
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.69	34.85	40.00	5.15	QP
2	148.34	11.00	1.69	16.08	28.77	43.50	14.73	QP
3	532.46	18.57	3.25	6.85	28.67	46.00	17.33	QP
4	623.64	20.08	3.37	6.19	29.64	46.00	16.36	QP
5	806.00	22.24	3.84	5.22	31.30	46.00	14.70	QP
6	903.00	23.34	4.17	7.30	34.81	46.00	11.19	QP



Site no. : 966 1# chamber
 Dis. / Ant. : 3m 27137
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK IX 5840MHz
 Antenna A

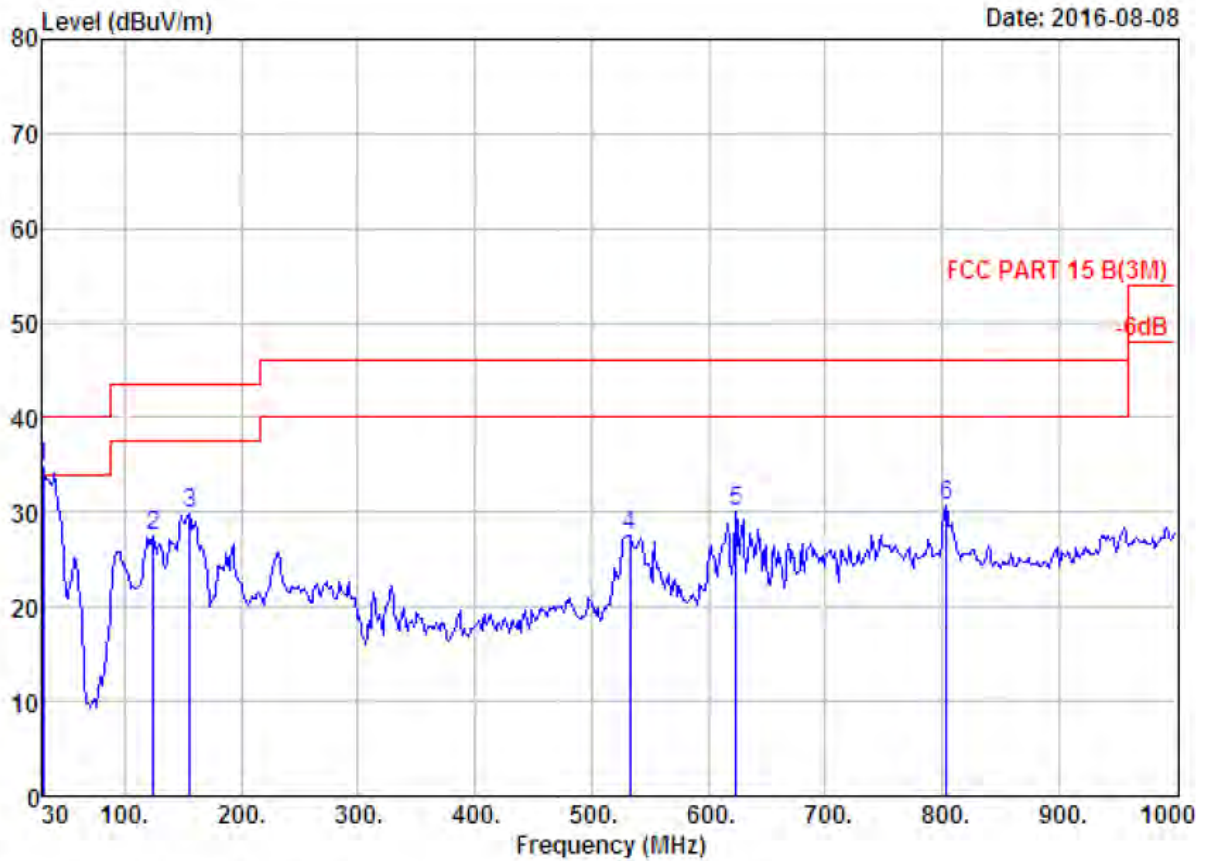
Data no. : 464
Ant. pol. : HORIZONTAL

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	156.10	10.61	1.67	18.29	30.57	43.50	12.93	QP
2	255.04	12.41	2.13	20.95	35.49	46.00	10.51	QP
3	328.76	13.82	2.44	16.57	32.83	46.00	13.17	QP
4	623.64	20.08	3.37	5.79	29.24	46.00	16.76	QP
5	801.15	22.07	3.83	8.51	34.41	46.00	11.59	QP
6	807.94	22.31	3.80	8.03	34.14	46.00	11.86	QP



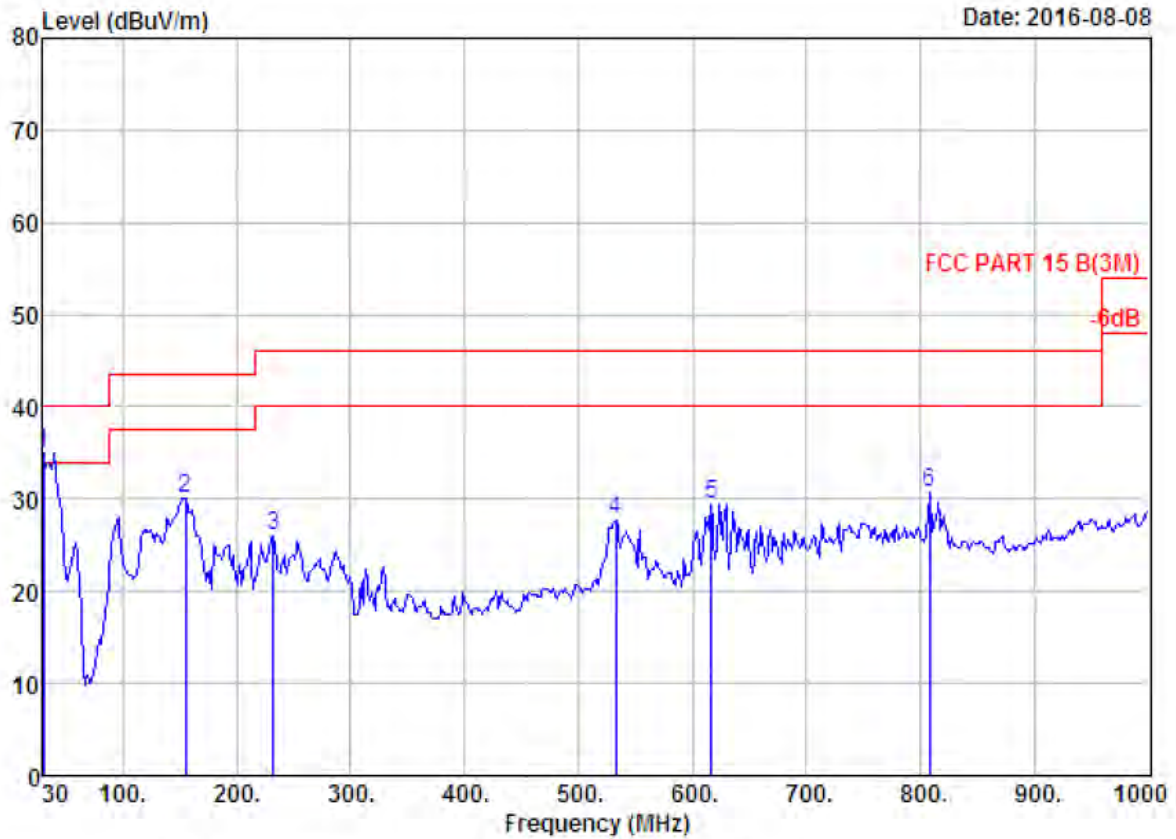
Site no. : 1# 966 chamber Data no. : 581
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	160.95	10.24	1.70	17.59	29.53	43.50	13.97	QP
2	253.10	12.17	2.17	20.48	34.82	46.00	11.18	QP
3	284.14	12.52	2.36	16.71	31.59	46.00	14.41	QP
4	623.64	20.08	3.37	7.66	31.11	46.00	14.89	QP
5	801.15	22.07	3.83	10.53	36.43	46.00	9.57	QP
6	813.76	22.36	3.85	7.51	33.72	46.00	12.28	QP



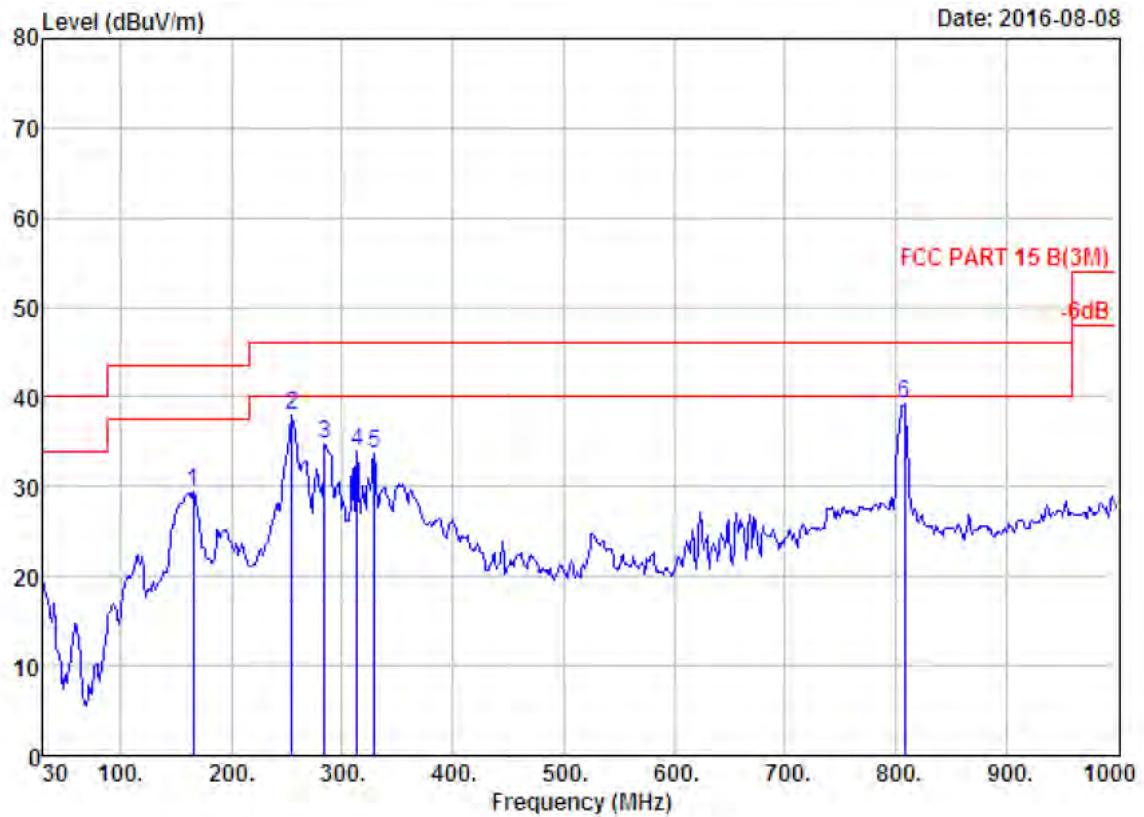
Site no. : 1# 966 chamber Data no. : 552
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.69	34.85	40.00	5.15	QP
2	125.06	11.35	1.52	14.75	27.62	43.50	15.88	QP
3	156.10	10.61	1.67	17.67	29.95	43.50	13.55	QP
4	532.46	18.57	3.25	5.74	27.56	46.00	18.44	QP
5	623.64	20.08	3.37	6.73	30.18	46.00	15.82	QP
6	804.06	22.17	3.87	4.75	30.79	46.00	15.21	QP



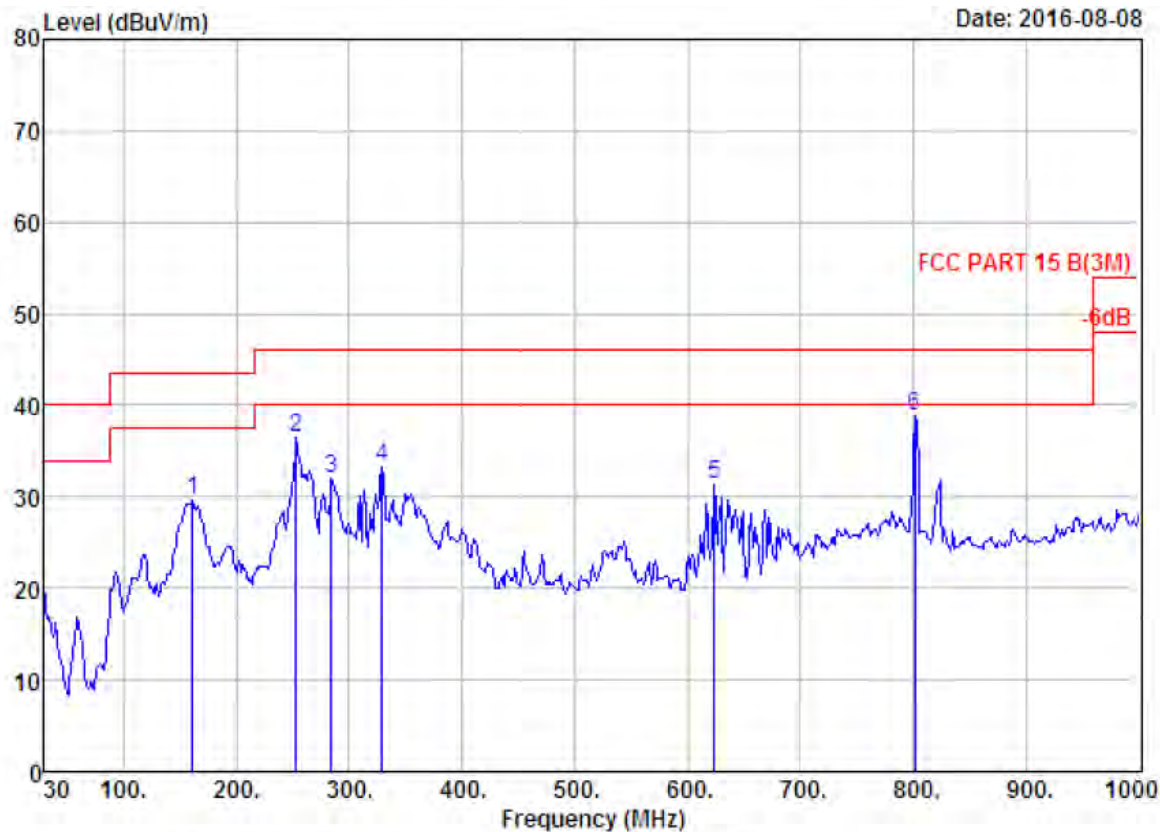
Site no. : 1# 966 chamber Data no. : 583
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.80	34.96	40.00	5.04	QP
2	155.13	10.67	1.69	17.67	30.03	43.50	13.47	QP
3	231.76	9.54	2.07	14.33	25.94	46.00	20.06	QP
4	532.46	18.57	3.25	6.00	27.82	46.00	18.18	QP
5	616.85	19.99	3.46	6.08	29.53	46.00	16.47	QP
6	807.94	22.31	3.80	4.65	30.76	46.00	15.24	QP



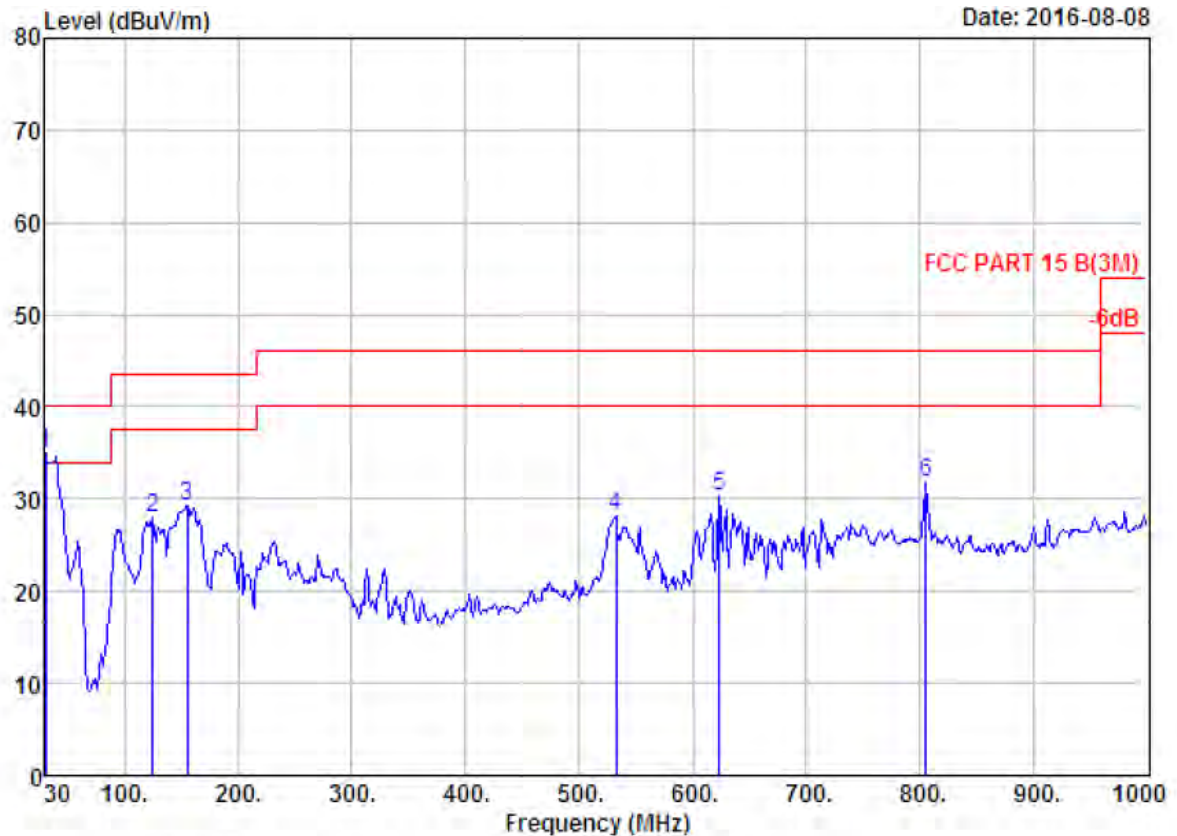
Site no. : 1# 966 chamber Data no. : 584
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK IX 5792MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	165.80	9.66	1.68	18.10	29.44	43.50	14.06	QP
2	255.04	12.41	2.13	23.36	37.90	46.00	8.10	QP
3	284.14	12.52	2.36	19.80	34.68	46.00	11.32	QP
4	313.24	13.31	2.44	18.16	33.91	46.00	12.09	QP
5	328.76	13.82	2.44	17.53	33.79	46.00	12.21	QP
6	807.94	22.31	3.80	13.19	39.30	46.00	6.70	QP



Site no. : 1# 966 chamber Data no. : 585
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Home Theater Sound Bar System
Power : DC 15V From Adapter Input AC 120V/60Hz
M/N : MAGNIFI MINI SOUND BAR
Test Mode : GFSK TX 5840MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	160.95	10.24	1.70	17.66	29.60	43.50	13.90	QP
2	253.10	12.17	2.17	22.12	36.46	46.00	9.54	QP
3	284.14	12.52	2.36	17.11	31.99	46.00	14.01	QP
4	328.76	13.82	2.44	17.04	33.30	46.00	12.70	QP
5	623.64	20.08	3.37	7.90	31.35	46.00	14.65	QP
6	801.15	22.07	3.83	12.85	38.75	46.00	7.25	QP



Site no. : 1# 966 chamber Data no. : 586
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6°;Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna B

	Fréq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.83	34.99	40.00	5.01	QP
2	125.06	11.35	1.52	15.16	28.03	43.50	15.47	QP
3	155.13	10.67	1.69	16.89	29.25	43.50	14.25	QP
4	532.46	18.57	3.25	6.30	28.12	46.00	17.88	QP
5	623.64	20.08	3.37	6.94	30.39	46.00	15.61	QP
6	806.00	22.24	3.84	5.61	31.69	46.00	14.31	QP

Above 1GHz

Site no. : 966 1# chamber Data no. : 475
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5114.00	31.62	12.45	32.17	33.16	45.06	74.00	28.94	Peak
2	5743.00	32.27	12.05	32.54	73.03	84.81	94.00	9.19	Average
3	5743.00	32.27	12.05	32.54	86.35	98.13	114.00	15.87	Peak
4	7834.00	36.68	11.47	31.40	30.56	47.31	74.00	26.69	Peak
5	11486.00	39.21	10.93	34.55	27.86	43.45	74.00	30.55	Peak
6	17229.00	40.58	10.90	33.55	30.08	48.01	74.00	25.99	Peak
7	17983.00	46.28	11.36	28.32	22.15	51.47	74.00	22.53	Peak

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

Site no. : 966 1# chamber Data no. : 476
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4876.00	31.37	12.07	31.90	36.15	47.69	74.00	26.31	Peak
2	5743.00	32.27	12.05	32.54	73.67	85.45	94.00	8.55	Average
3	5743.00	32.27	12.05	32.54	88.54	100.32	114.00	13.68	Peak
4	7970.00	36.94	11.41	31.25	32.06	49.16	74.00	24.84	Peak
5	11486.00	39.21	10.93	34.55	29.05	44.64	74.00	29.36	Peak
6	17229.00	40.58	10.90	33.55	29.96	47.89	74.00	26.11	Peak
7	17983.00	46.28	11.36	28.32	20.60	49.92	74.00	24.08	Peak

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

Site no. : 966 1# chamber Data no. : 477
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4995.00	31.54	12.59	32.00	33.10	45.23	74.00	28.77	Peak
2	5792.00	32.36	12.07	32.47	72.95	84.91	94.00	9.09	Average
3	5792.00	32.36	12.07	32.47	88.48	100.44	114.00	13.56	Peak
4	11584.00	39.10	11.01	34.74	29.77	45.14	74.00	28.86	Peak
5	14345.00	41.76	10.92	32.93	29.86	49.61	74.00	24.39	Peak
6	17376.00	41.17	10.85	34.50	30.31	47.83	74.00	26.17	Peak
7	18000.00	46.45	11.38	27.85	22.38	52.36	74.00	21.64	Peak

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

Site no. : 966 1# chamber Data no. : 478
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4927.00	31.45	12.29	31.95	33.70	45.49	74.00	28.51	Peak
2	5792.00	32.36	12.07	32.47	72.47	84.43	94.00	9.57	Average
3	5792.00	32.36	12.07	32.47	84.85	96.81	114.00	17.19	Peak
4	11584.00	39.10	11.01	34.74	24.28	39.65	74.00	34.35	Peak
5	14906.00	40.53	10.87	34.51	28.70	45.59	74.00	28.41	Peak
6	17376.00	41.17	10.85	34.50	26.36	43.88	74.00	30.12	Peak
7	18000.00	46.45	11.38	27.85	20.11	50.09	74.00	23.91	Peak

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

Site no. : 966 1# chamber Data no. : 479
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5114.00	31.62	12.45	32.17	33.73	45.63	74.00	28.37	Peak
2	5840.00	32.46	12.08	32.40	70.07	82.21	94.00	11.79	Average
3	5840.00	32.46	12.08	32.40	84.74	96.88	114.00	17.12	Peak
4	8004.00	37.01	11.40	31.22	29.02	46.21	74.00	27.79	Peak
5	11680.00	38.98	11.09	34.93	26.44	41.58	74.00	32.42	Peak
6	17520.00	41.79	10.82	35.34	28.33	45.60	74.00	28.40	Peak
7	18000.00	46.45	11.38	27.85	20.65	50.63	74.00	23.37	Peak

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

Site no. : 966 1# chamber Data no. : 480
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5250.00	31.69	12.29	32.19	33.61	45.40	74.00	28.60	Peak
2	5840.00	32.46	12.08	32.40	73.61	85.75	94.00	8.25	Average
3	5840.00	32.46	12.08	32.40	90.97	103.11	114.00	10.89	Peak
4	7426.00	36.56	11.60	31.95	29.11	45.32	74.00	28.68	Peak
5	11680.00	38.98	11.09	34.93	30.45	45.59	74.00	28.41	Peak
6	17520.00	41.79	10.82	35.34	26.77	44.04	74.00	29.96	Peak
7	17983.00	46.28	11.36	28.32	20.16	49.48	74.00	24.52	Peak

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

Site no. : site Data no. : 481
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4842.00	31.31	11.92	31.85	38.75	50.13	74.00	23.87	Peak
2	5743.00	32.27	12.05	32.54	72.03	83.81	94.00	10.19	Average
3	5743.00	32.27	12.05	32.54	86.96	98.74	114.00	15.26	Peak
4	7494.00	36.48	11.62	31.87	28.87	45.10	74.00	28.90	Peak
5	11486.00	39.21	10.93	34.55	24.82	40.41	74.00	33.59	Peak
6	17229.00	40.58	10.90	33.55	27.13	45.06	74.00	28.94	Peak
7	18000.00	46.45	11.38	27.85	19.84	49.82	74.00	24.18	Peak

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

Site no. : 966 1# chamber Data no. : 482
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4842.00	31.31	11.92	31.85	37.80	49.18	74.00	24.82	Peak
2	5743.00	32.27	12.05	32.54	71.23	83.01	94.00	10.99	Average
3	5743.00	32.27	12.05	32.54	83.62	95.40	114.00	18.60	Peak
4	9636.00	37.96	11.68	31.91	26.60	44.33	74.00	29.67	Peak
5	11486.00	39.21	10.93	34.55	22.60	38.19	74.00	35.81	Peak
6	17229.00	40.58	10.90	33.55	28.19	46.12	74.00	27.88	Peak
7	18000.00	46.45	11.38	27.85	20.99	50.97	74.00	23.03	Peak

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

Site no. : 966 1# chamber Data no. : 483
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5080.00	31.59	12.49	32.14	33.31	45.25	74.00	28.75	Peak
2	5792.00	32.36	12.07	32.47	73.77	85.73	94.00	8.27	Average
3	5792.00	32.36	12.07	32.47	87.50	99.46	114.00	14.54	Peak
4	11584.00	39.10	11.01	34.74	24.51	39.88	74.00	34.12	Peak
5	15093.00	39.78	10.90	35.32	32.13	47.49	74.00	26.51	Peak
6	17376.00	41.17	10.85	34.50	30.01	47.53	74.00	26.47	Peak
7	18000.00	46.45	11.38	27.85	22.71	52.69	74.00	21.31	Peak

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

Site no. : 966 1# chamber Data no. : 484
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5792MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4910.00	31.42	12.22	31.93	34.45	46.16	74.00	27.84	Peak
2	5792.00	32.36	12.07	32.47	73.71	85.67	94.00	8.33	Average
3	5792.00	32.36	12.07	32.47	87.08	99.04	114.00	14.96	Peak
4	11584.00	39.10	11.01	34.74	25.29	40.66	74.00	33.34	Peak
5	14940.00	40.42	10.87	34.63	29.97	46.63	74.00	27.37	Peak
6	17376.00	41.17	10.85	34.50	28.06	45.58	74.00	28.42	Peak
7	18000.00	46.45	11.38	27.85	21.75	51.73	74.00	22.27	Peak

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

Site no. : 966 1# chamber Data no. : 485
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4825.00	31.28	11.84	31.83	36.26	47.55	74.00	26.45	Peak
2	5840.00	32.46	12.08	32.40	72.57	84.71	94.00	9.29	Average
3	5840.00	32.46	12.08	32.40	85.61	97.75	114.00	16.25	Peak
4	11680.00	38.98	11.09	34.93	22.69	37.83	74.00	36.17	Peak
5	15110.00	39.70	10.91	35.41	31.87	47.07	74.00	26.93	Peak
6	17520.00	41.79	10.82	35.34	30.03	47.30	74.00	26.70	Peak
7	18000.00	46.45	11.38	27.85	21.09	51.07	74.00	22.93	Peak

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

Site no. : 966 1# chamber Data no. : 486
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4978.00	31.52	12.52	31.99	35.01	47.06	74.00	26.94	Peak
2	5840.00	32.46	12.08	32.40	73.70	85.84	94.00	8.16	Average
3	5840.00	32.46	12.08	32.40	87.25	99.39	114.00	14.61	Peak
4	11680.00	38.98	11.09	34.93	28.12	43.26	74.00	30.74	Peak
5	15926.00	37.19	10.73	33.11	33.74	48.55	74.00	25.45	Peak
6	17520.00	41.79	10.82	35.34	25.10	42.37	74.00	31.63	Peak
7	17983.00	46.28	11.36	28.32	19.99	49.31	74.00	24.69	Peak

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

5. 20 DB BANDWIDTH

5.1. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

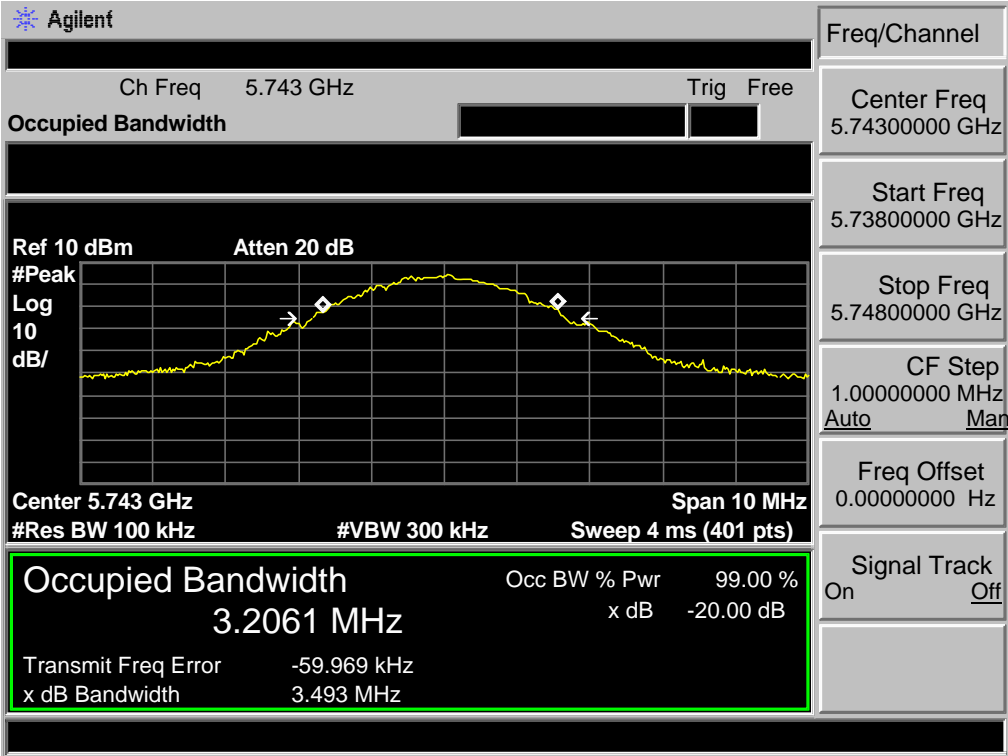
5.2. Test Result

EUT: Home Theater Sound Bar System				
M/N: MAGNIFI MINI SOUND BAR				
Test date: 2016-08-03		Test site: RF site		Tested by: Tony Tang
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
Antenna A				
TX	5743	3.493	/	PASS
	5792	3.503	/	PASS
	5840	3.514	/	PASS
Antenna B				
TX	5743	3.460	/	PASS
	5792	3.508	/	PASS
	5840	3.745	/	PASS

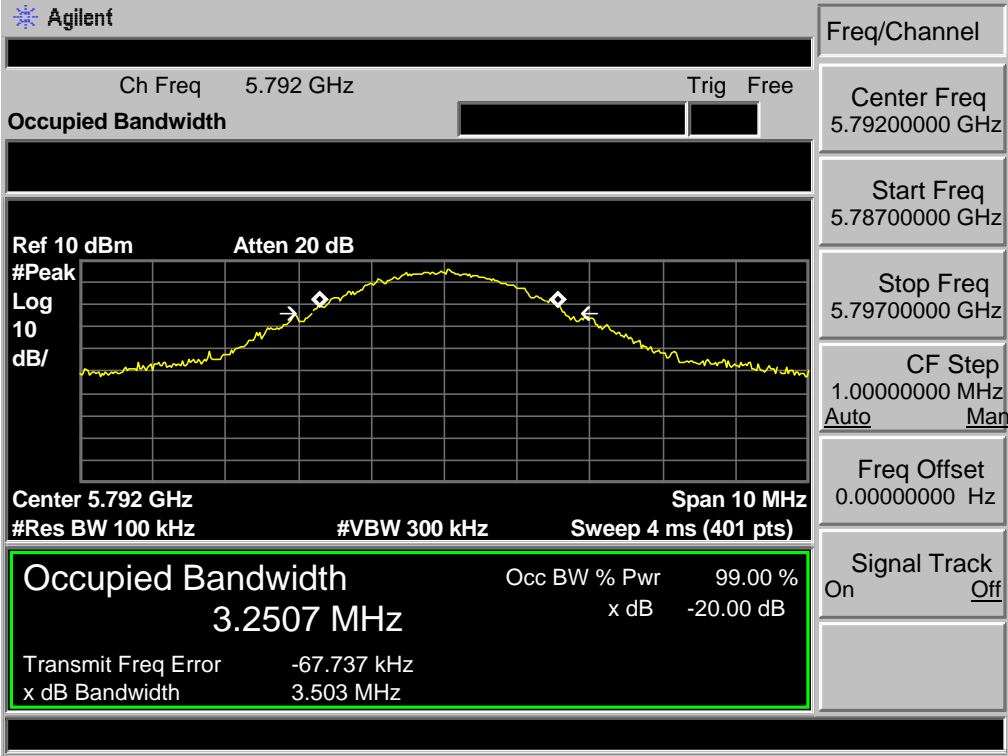
5.3. Test Data

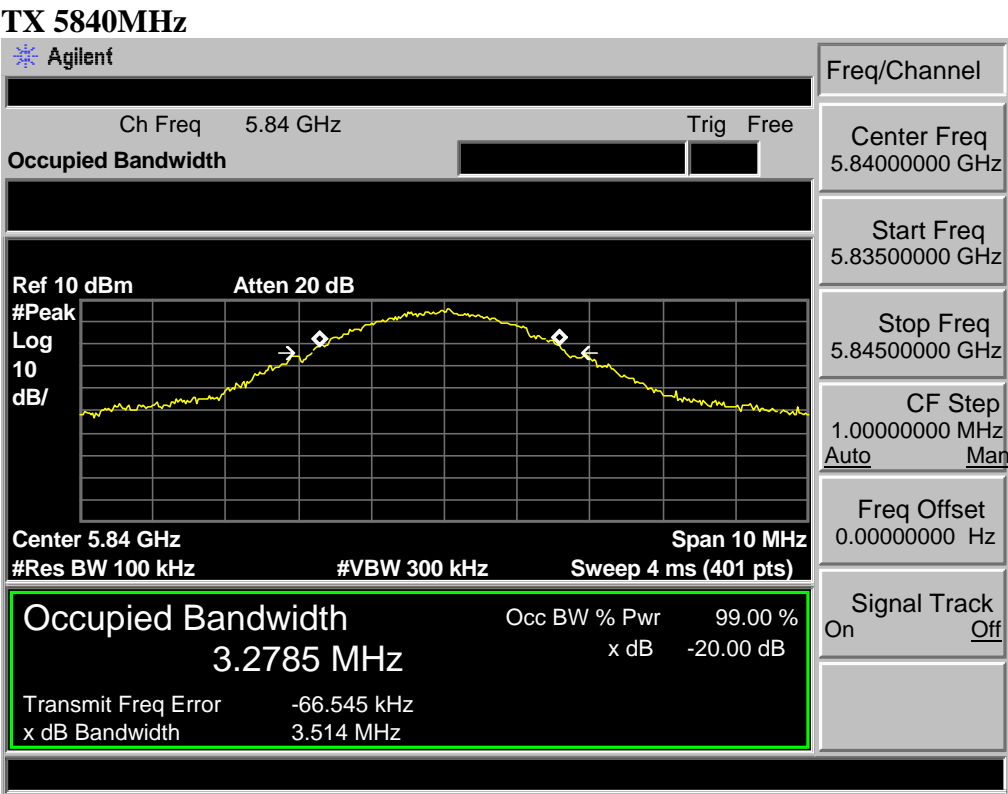
Antenna A

TX 5743 MHz



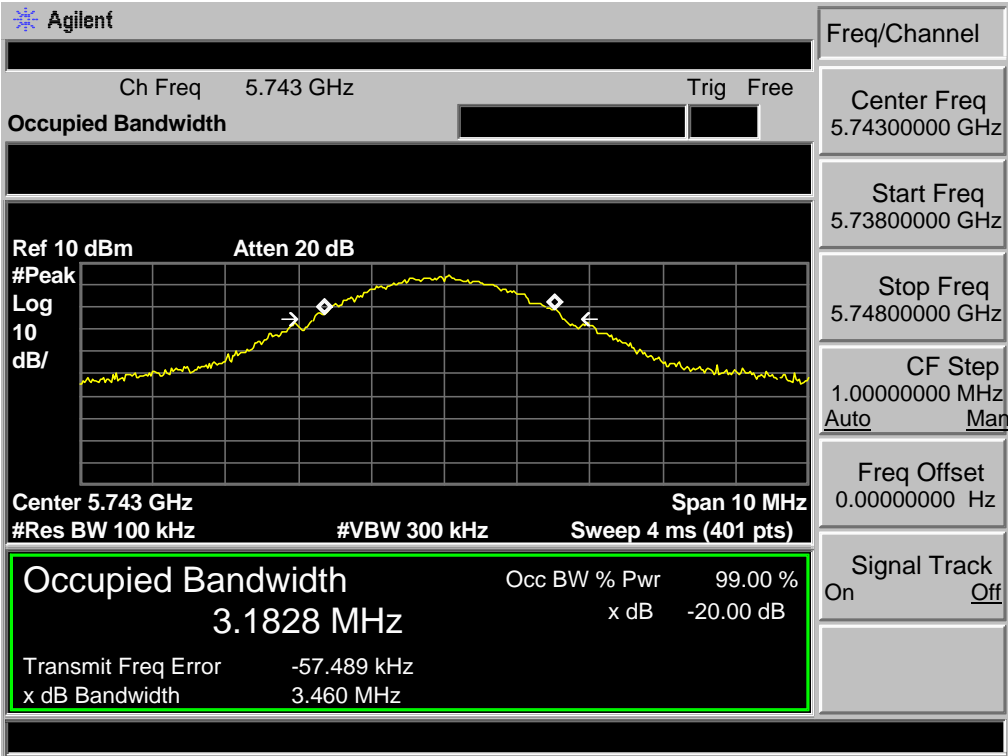
TX 5792 MHz



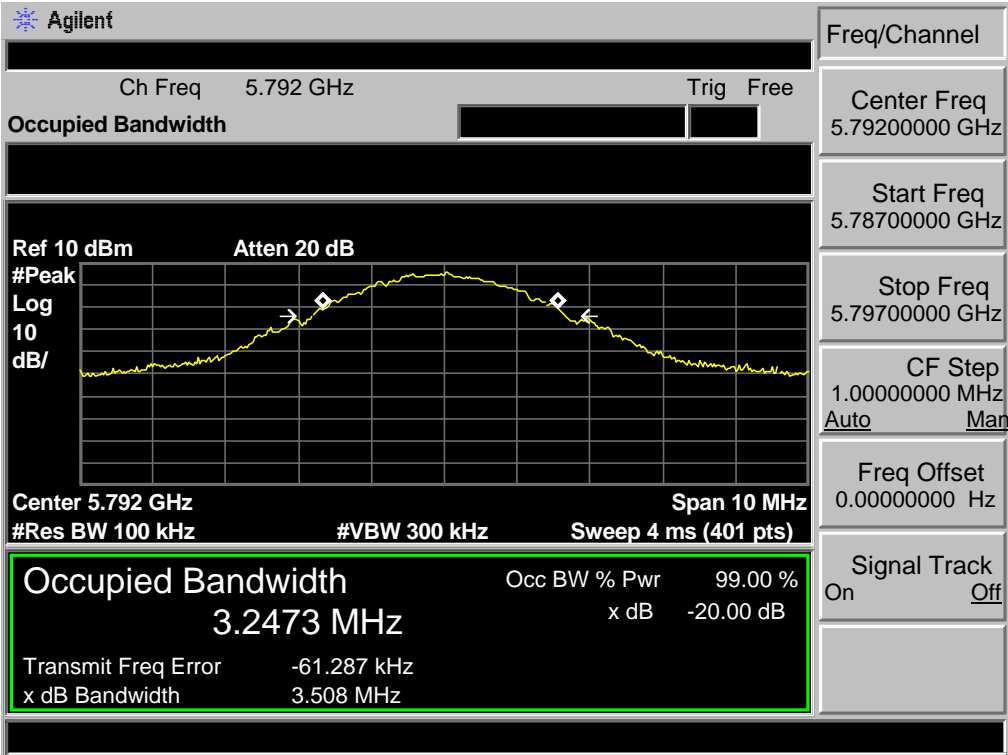


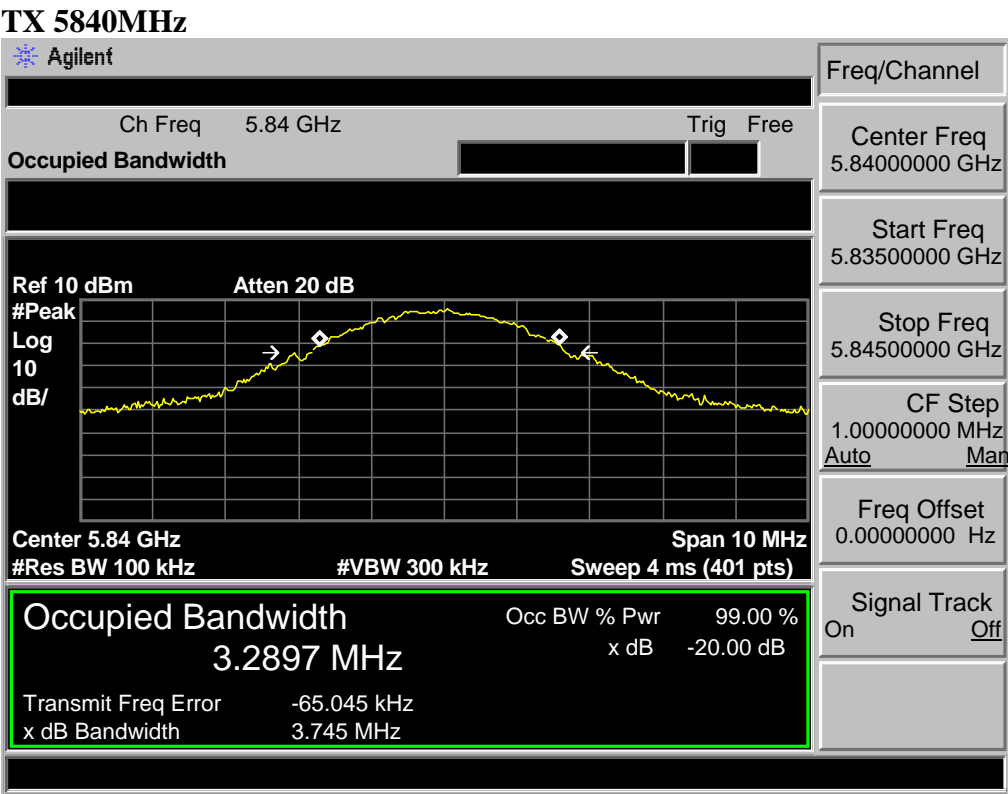
Antenna B

TX 5743 MHz



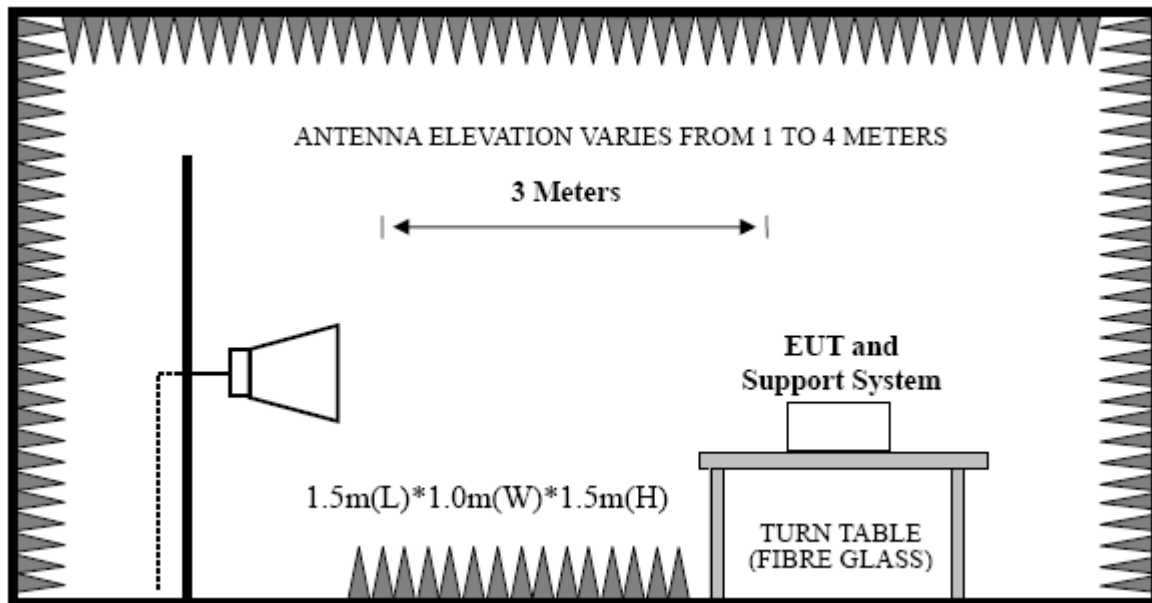
TX 5792 MHz





6. BAND EDGE COMPLIANCE

6.1. Block Diagram of Test setup



6.2. Test Procedure

EUT was placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. 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.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

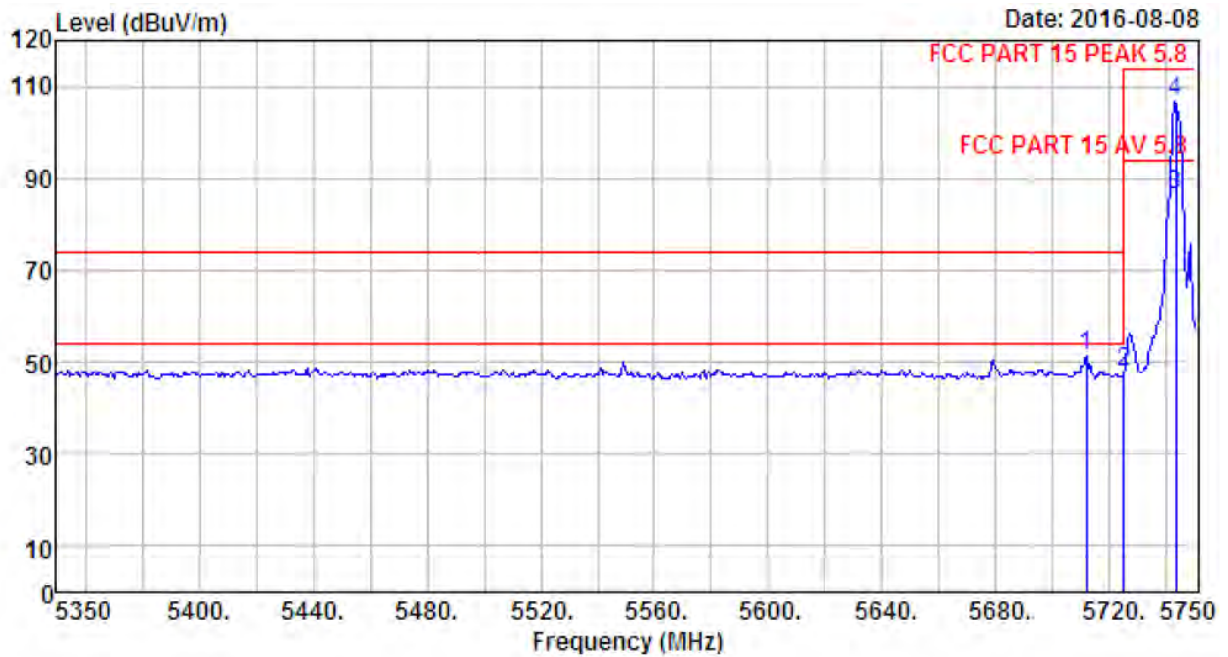
AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto .

6.3. Test Result

EUT: Home Theater Sound Bar System	M/N: MAGNIFI MINI SOUND BAR
Power: AC 120V/60Hz	
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Tony Tang	
Test mode: Tx Mode	
Pass	

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

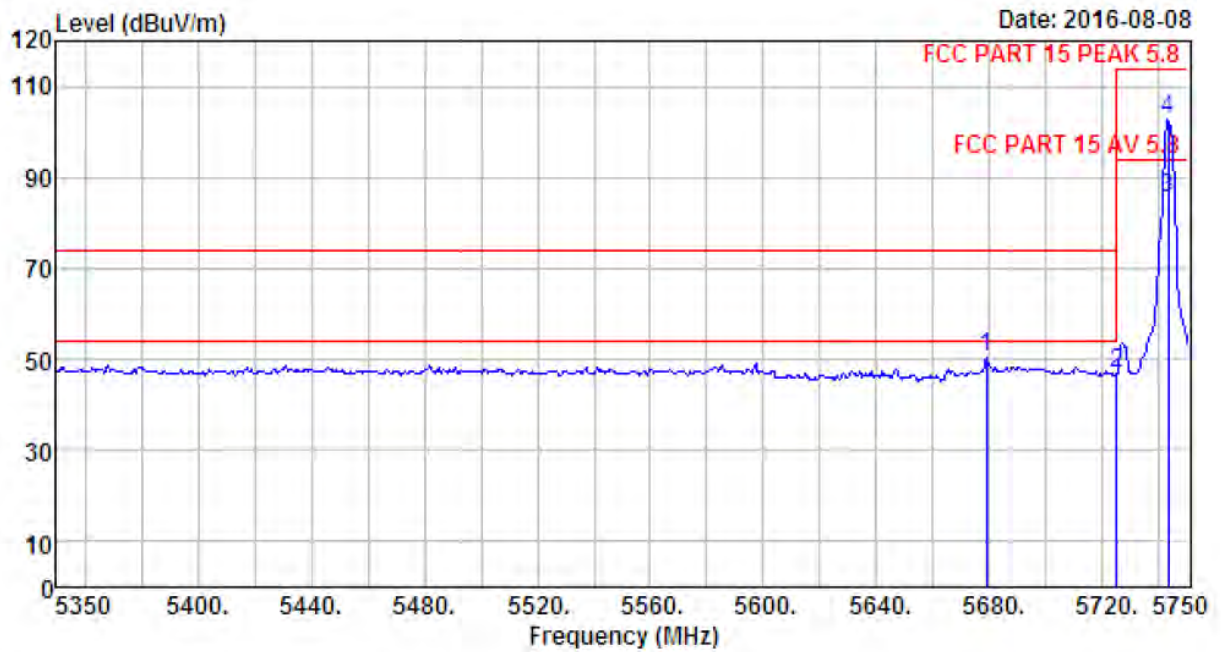
6.4. Test Data



Site no. : 966 1# chamber Data no. : 487
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK IX 5743MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	5711.60	32.24	12.04	32.56	39.60	51.32	74.00	22.68	Peak
2	5725.00	32.24	12.05	32.56	36.09	47.82	74.00	26.18	Peak
3	5743.00	32.27	12.05	32.54	74.78	86.56	94.00	7.44	Average
4	5743.00	32.27	12.05	32.54	95.00	106.78	114.00	7.22	Peak

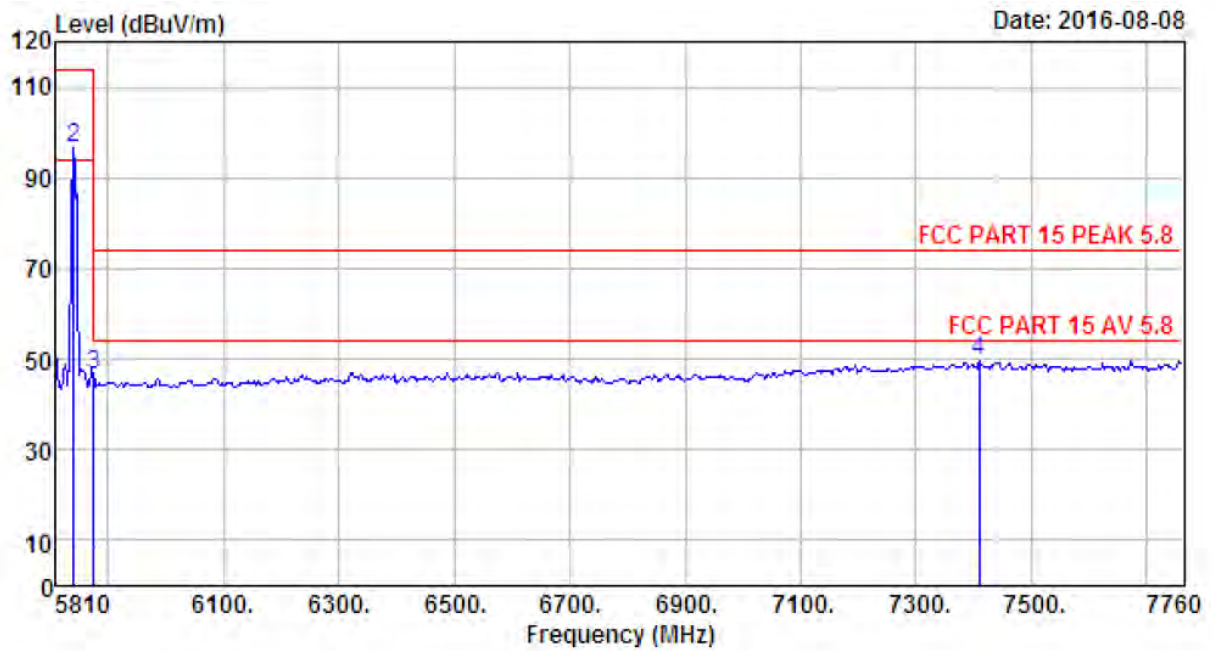
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 488
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5678.80	32.17	12.03	32.60	39.07	50.67	74.00	23.33	Peak
2	5725.00	32.24	12.05	32.56	35.20	46.93	74.00	27.07	Peak
3	5743.00	32.27	12.05	32.54	73.79	85.57	94.00	8.43	Average
4	5743.00	32.27	12.05	32.54	90.87	102.65	114.00	11.35	Peak

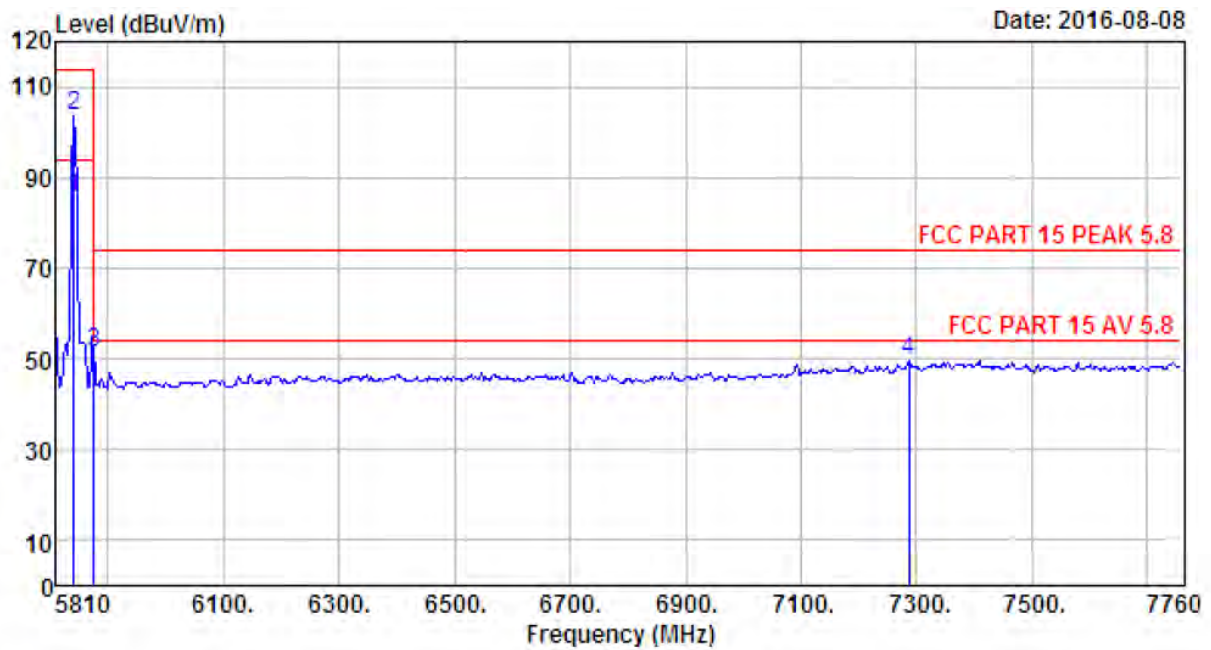
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 489
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5840.00	32.46	12.08	32.40	71.43	83.57	94.00	10.43	Average
2	5840.00	32.46	12.08	32.40	84.19	96.33	114.00	17.67	Peak
3	5875.00	32.53	12.09	32.36	34.39	46.65	74.00	27.35	Peak
4	7409.00	36.58	11.60	31.97	33.49	49.70	74.00	24.30	Peak

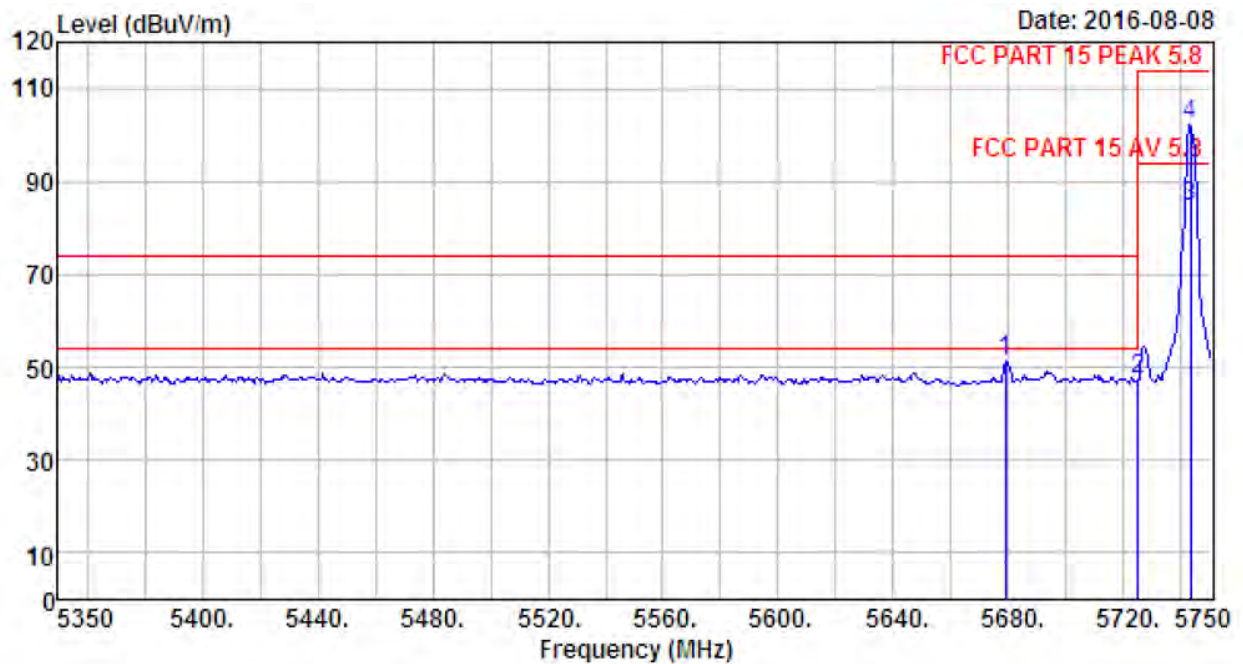
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : site Data no. : 490
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5840.00	32.46	12.08	32.40	73.46	85.60	94.00	8.40	Average
2	5840.00	32.46	12.08	32.40	91.55	103.69	114.00	10.31	Peak
3	5875.00	32.53	12.09	32.36	39.10	51.36	74.00	22.64	Peak
4	7288.10	36.54	11.56	32.02	33.64	49.72	74.00	24.28	Peak

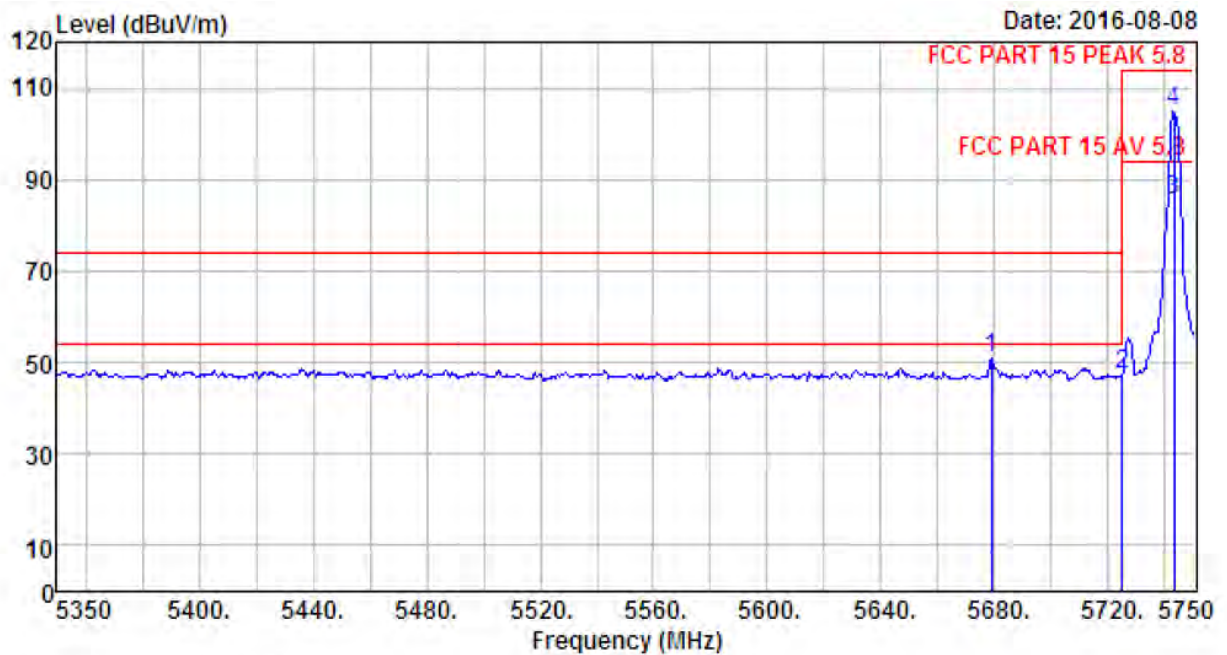
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 491
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5678.80	32.17	12.03	32.60	39.59	51.19	74.00	22.81	Peak
2	5725.00	32.24	12.05	32.56	35.51	47.24	74.00	26.76	Peak
3	5743.00	32.27	12.05	32.54	72.78	84.56	94.00	9.44	Average
4	5743.00	32.27	12.05	32.54	90.60	102.38	114.00	11.62	Peak

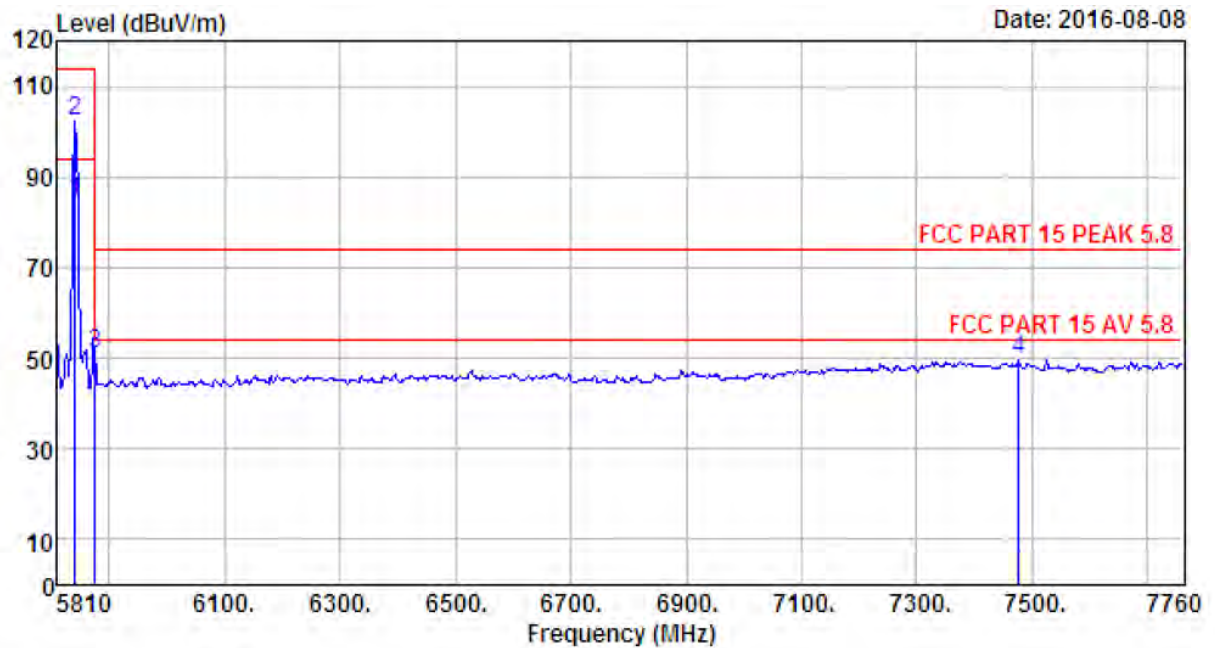
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 492
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5743MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	5678.80	32.17	12.03	32.60	39.25	50.85	74.00	23.15	Peak
2	5725.00	32.24	12.05	32.56	35.70	47.43	74.00	26.57	Peak
3	5743.00	32.27	12.05	32.54	73.78	85.56	94.00	8.44	Average
4	5743.00	32.27	12.05	32.54	93.34	105.12	114.00	8.88	Peak

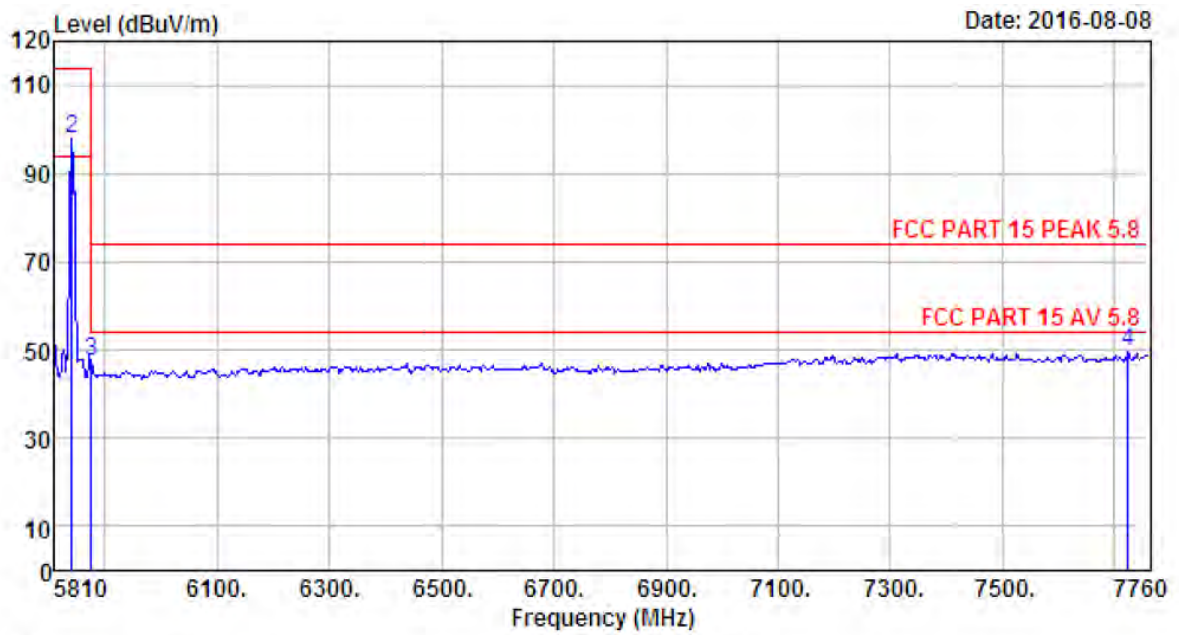
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 493
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5840.00	32.46	12.08	32.40	72.46	84.60	94.00	9.40	Average
2	5840.00	32.46	12.08	32.40	90.00	102.14	114.00	11.86	Peak
3	5875.00	32.53	12.09	32.36	38.73	50.99	74.00	23.01	Peak
4	7477.25	36.50	11.62	31.89	33.17	49.40	74.00	24.60	Peak

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



Site no. : 966 1# chamber Data no. : 494
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 5.8
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Home Theater Sound Bar System
 Power : DC 15V From Adapter Input AC 120V/60Hz
 M/N : MAGNIFI MINI SOUND BAR
 Test Mode : GFSK TX 5840MHz
 Antenna B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5840.00	32.46	12.08	32.40	71.44	83.58	94.00	10.42	Average
2	5840.00	32.46	12.08	32.40	85.79	97.93	114.00	16.07	Peak
3	5875.00	32.53	12.09	32.36	35.12	47.38	74.00	26.62	Peak
4	7724.90	36.53	11.52	31.50	33.11	49.66	74.00	24.34	Peak

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

7. ANTENNA REQUIREMENTS

7.1. Limit

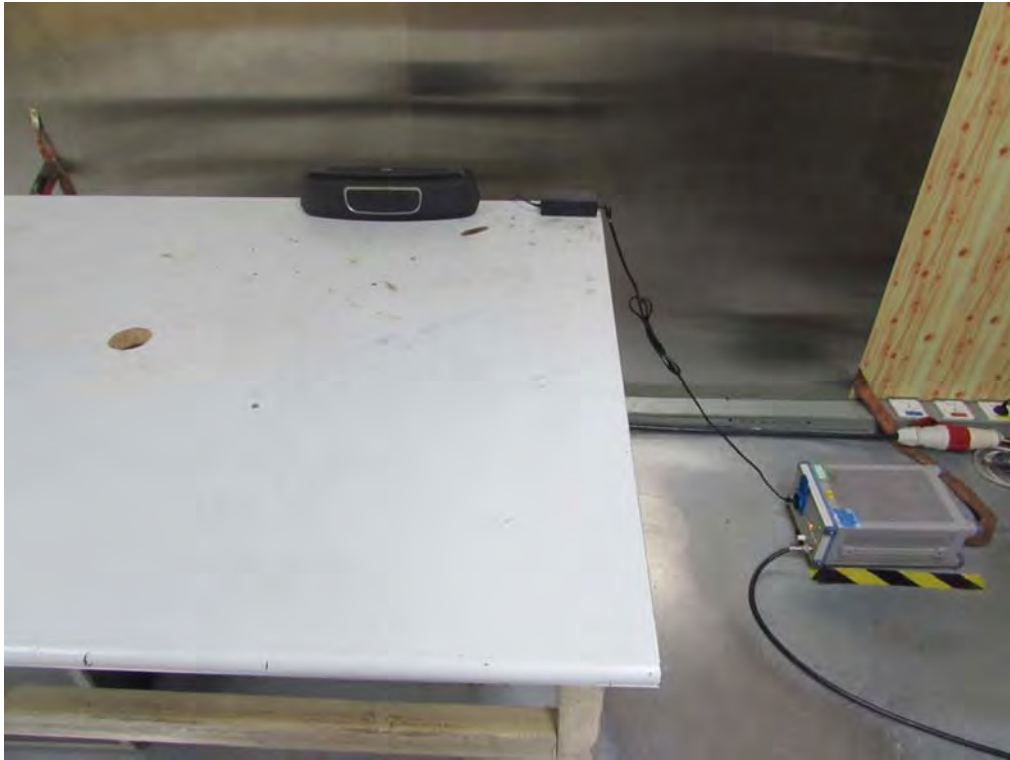
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.2. Result

The antennas used for this product are PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.85dBi.

8. TESTSETUP PHOTO

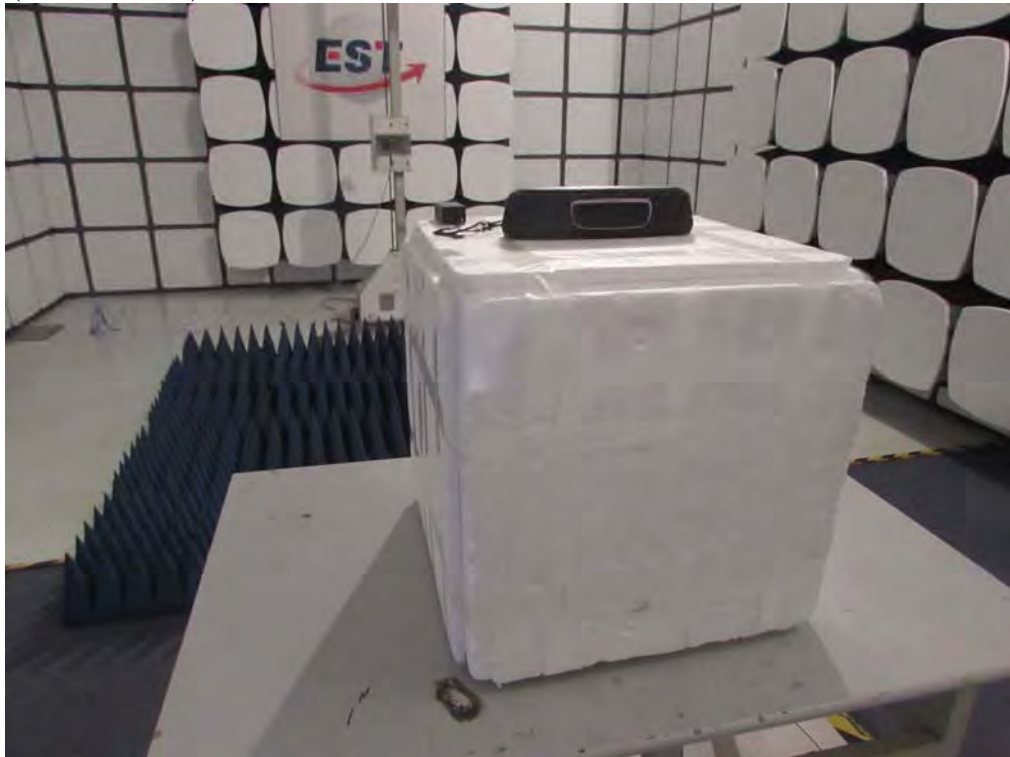
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1GHz)



9. PHOTO OF EUT

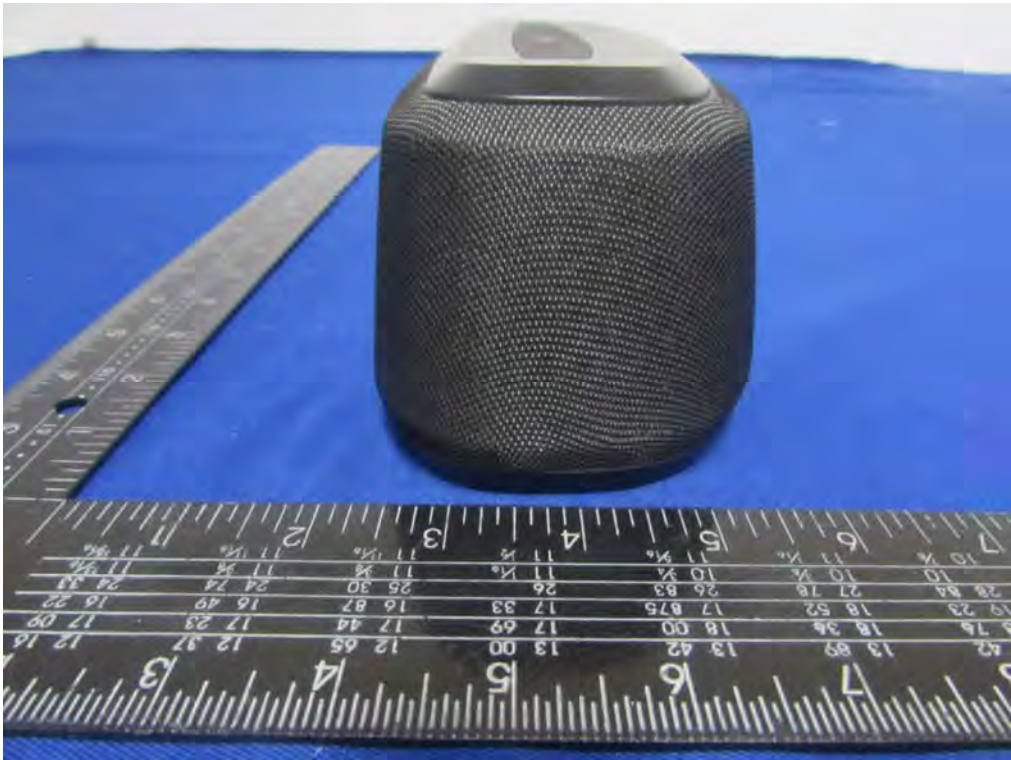
External Photos
M/N: MAGNIFI MINI SOUND BAR



External Photos
M/N:MAGNIFI MINI SOUND BAR



External Photos
M/N: MAGNIFI MINI SOUND BAR



Internal Photos
M/N: MAGNIFI MINI SOUND BAR

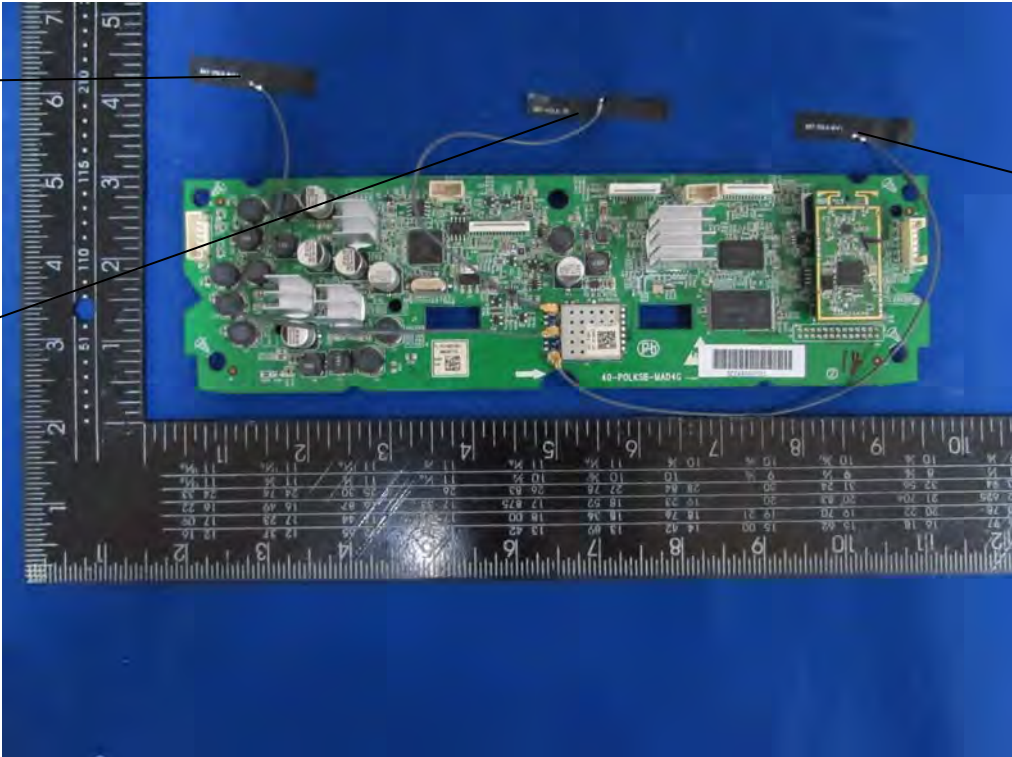


Internal Photos
M/N: MAGNIFI MINI SOUND BAR

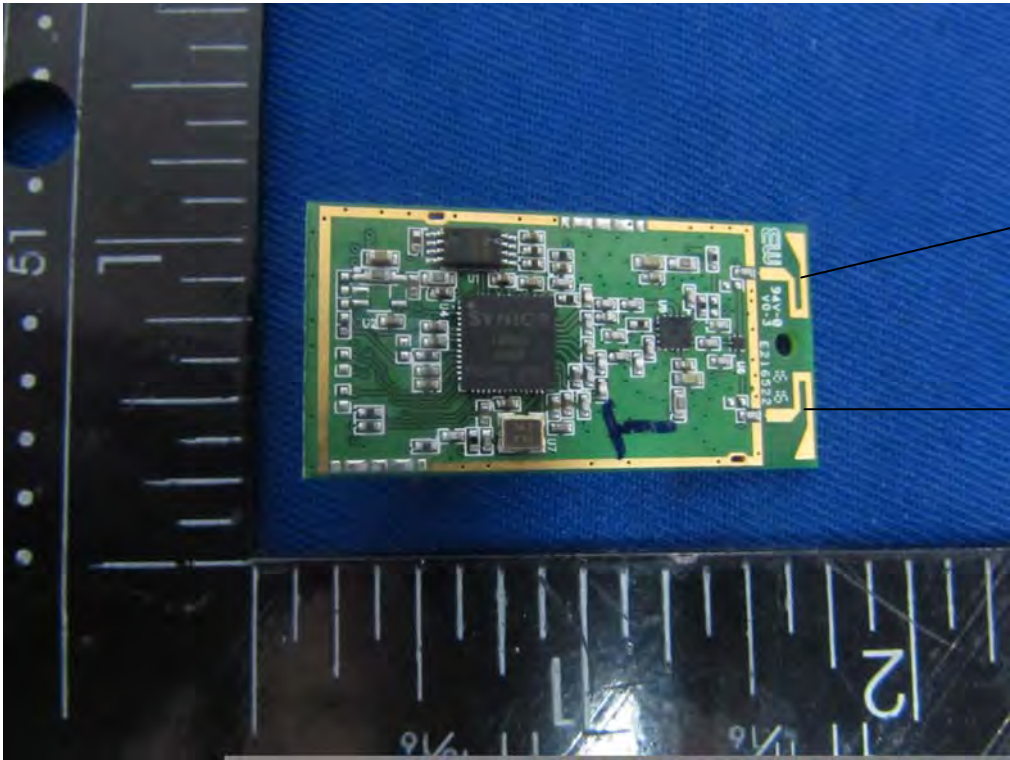
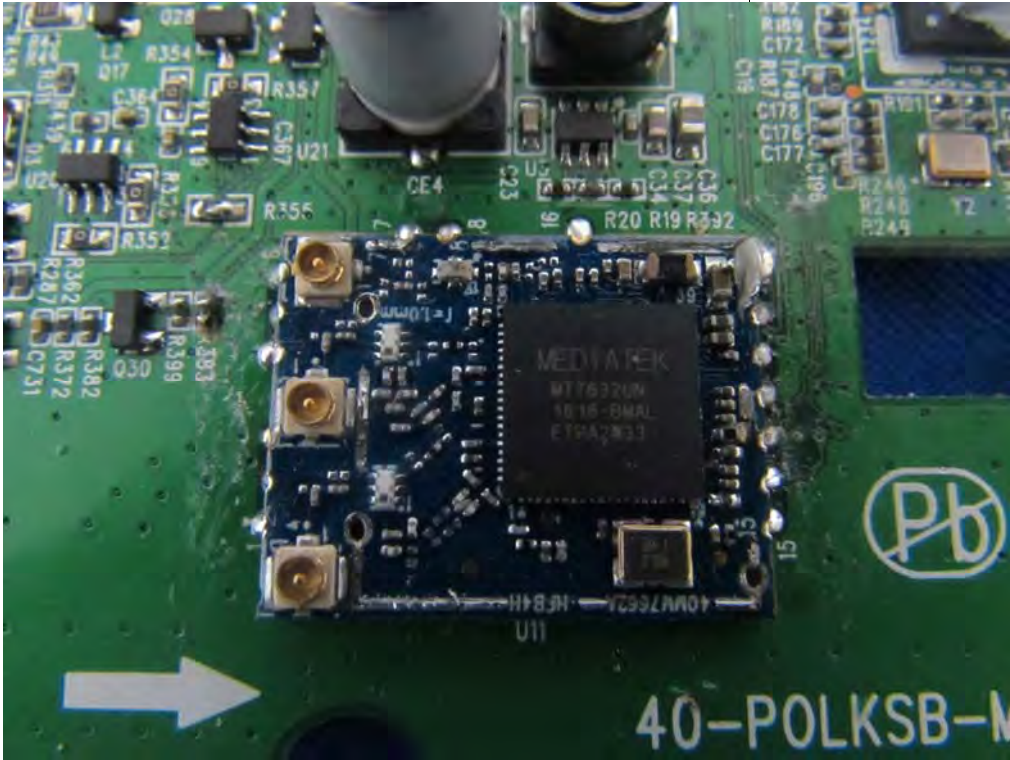
Wi-Fi
Antenna 1

Bluetooth
Antenna

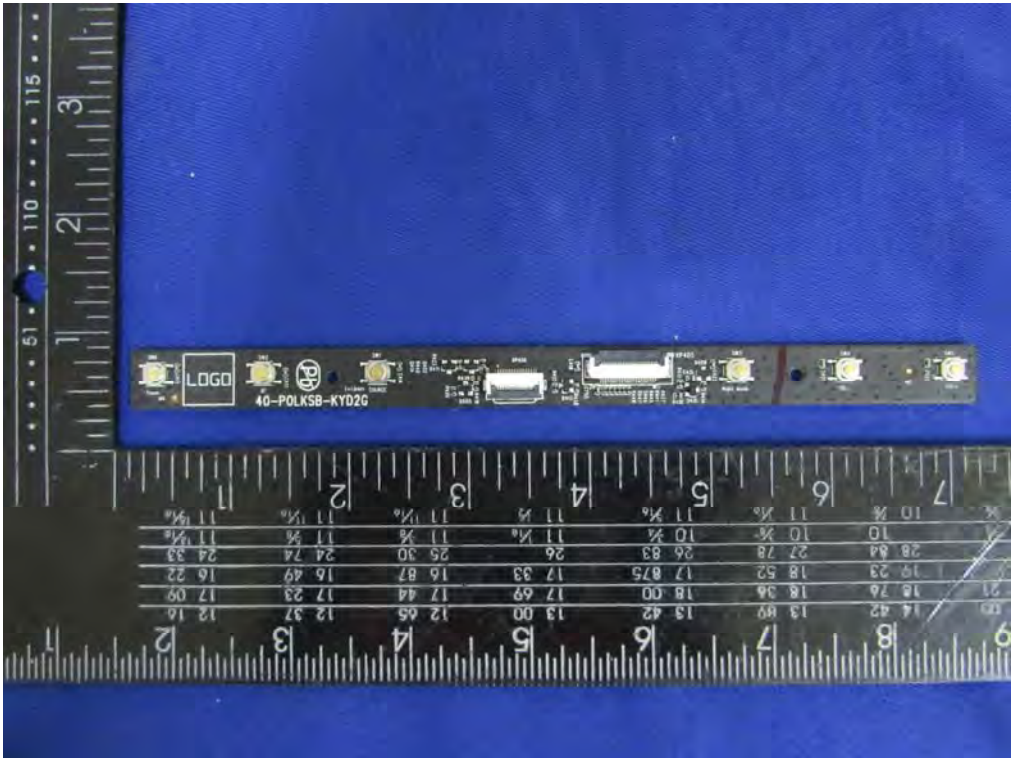
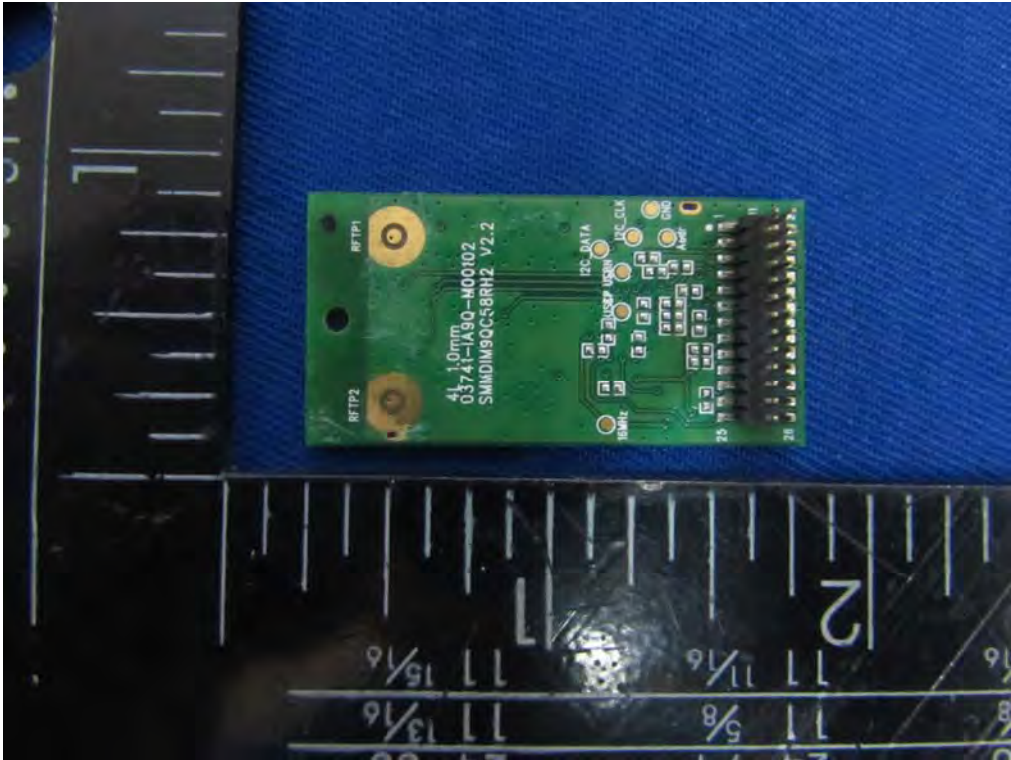
Wi-Fi
Antenna 0



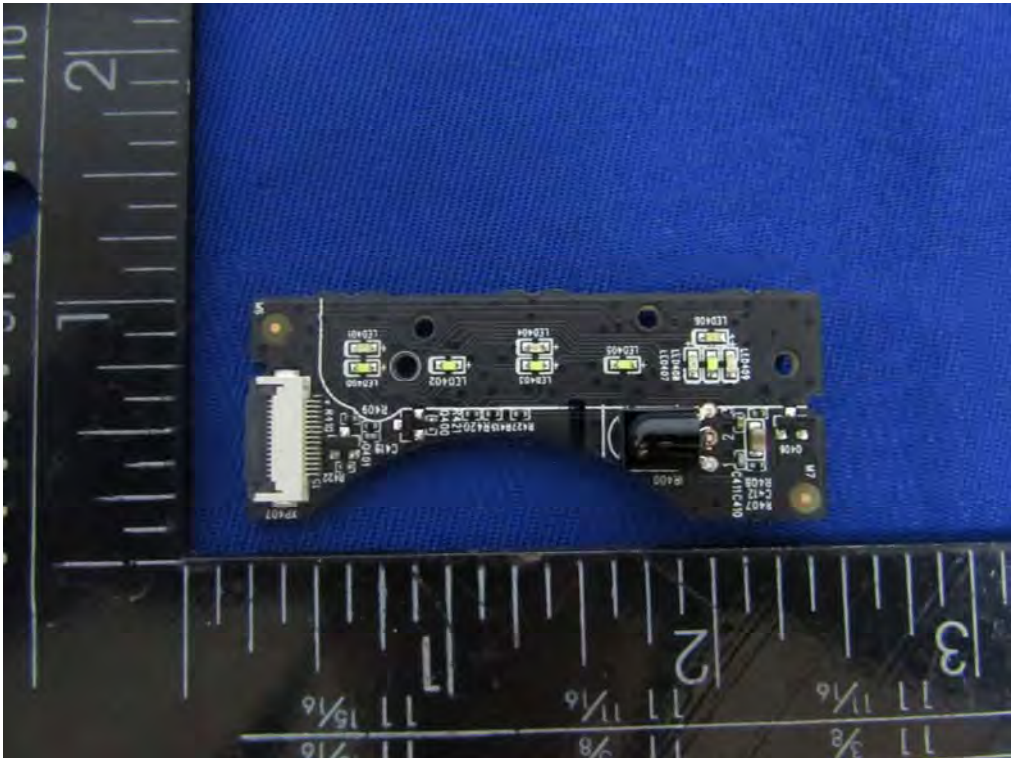
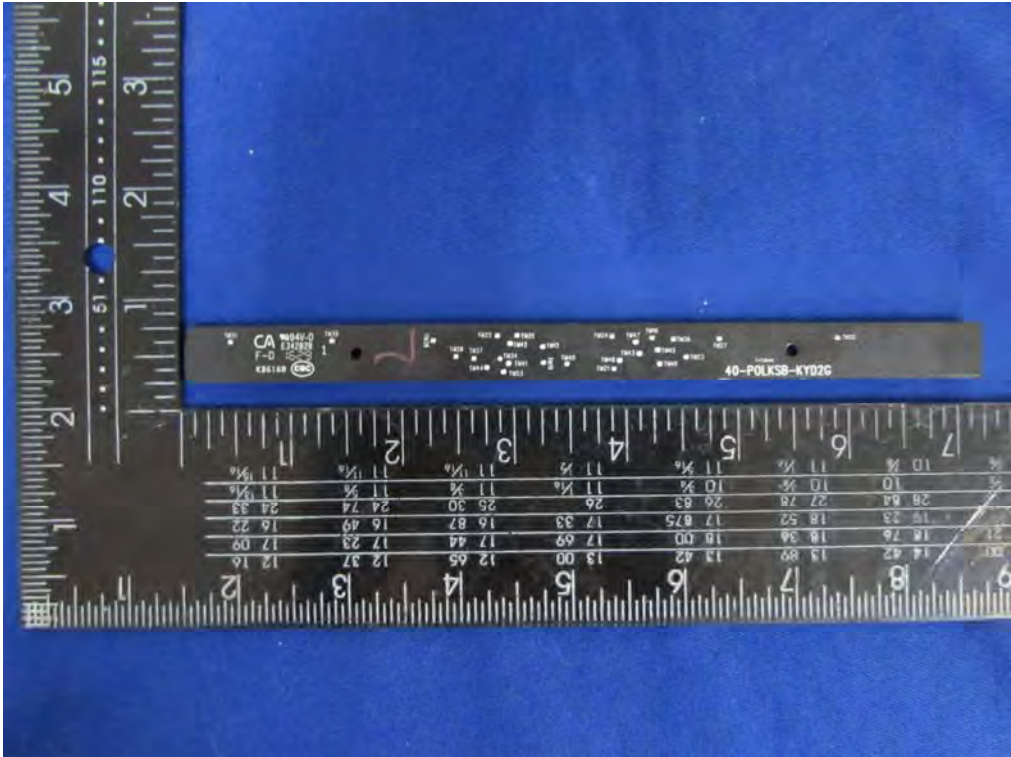
Internal Photos
M/N: MAGNIFI MINI SOUND BAR



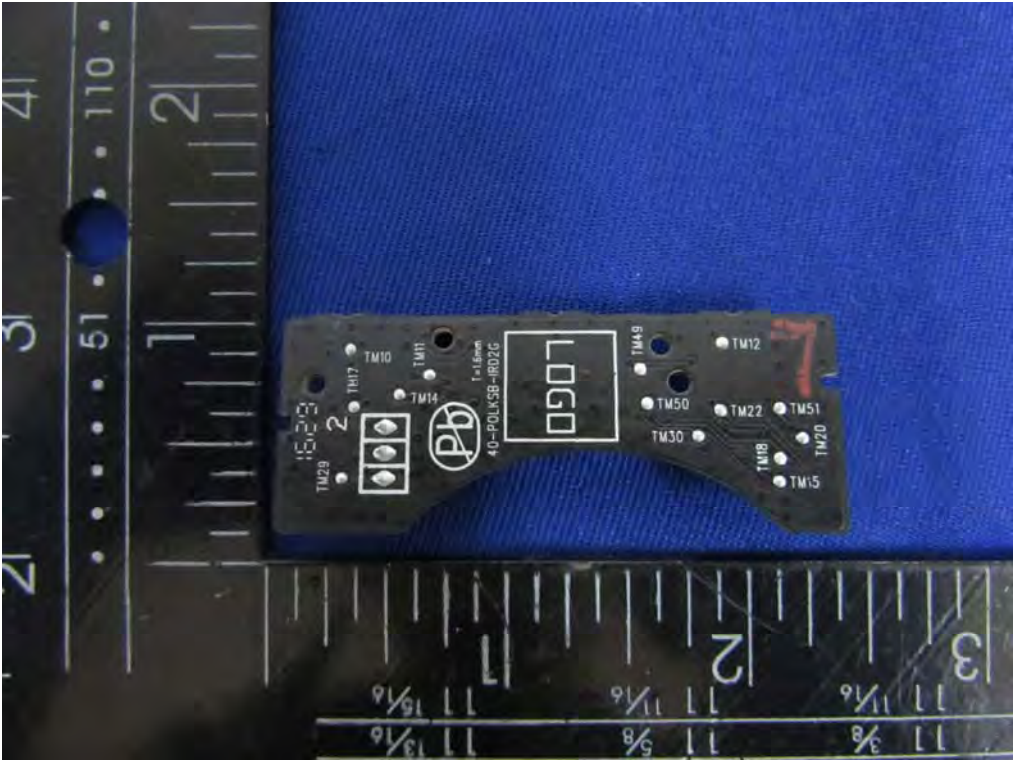
Internal Photos
M/N: MAGNIFI MINI SOUND BAR



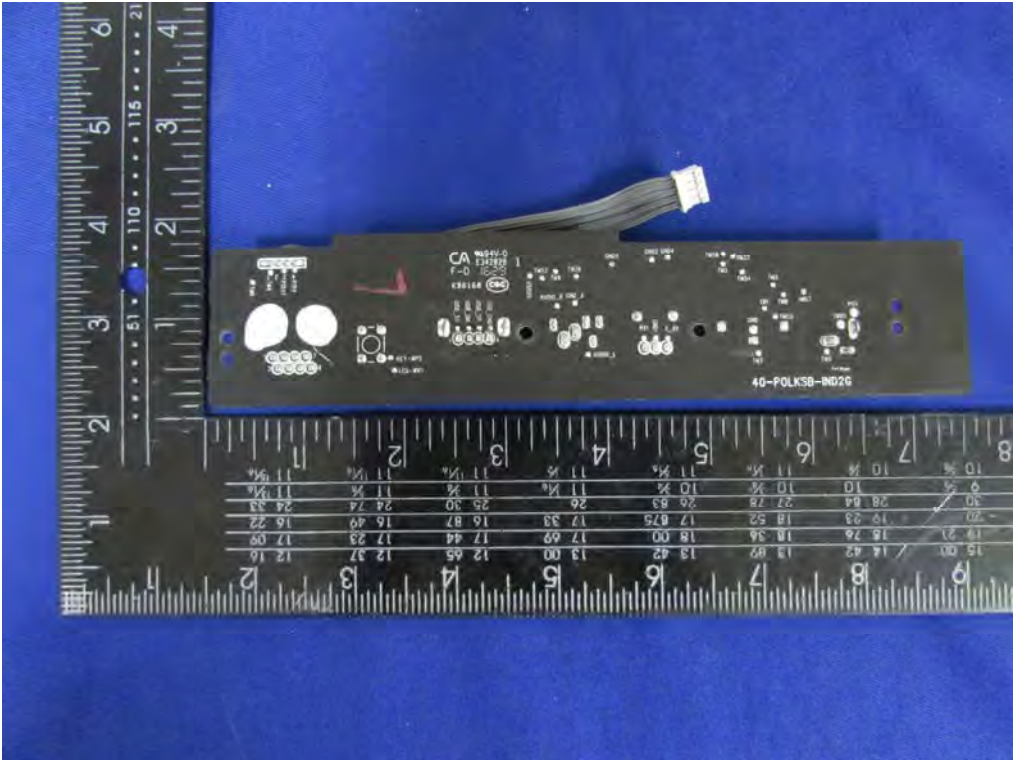
Internal Photos
M/N: MAGNIFI MINI SOUND BAR



Internal Photos
M/N: MAGNIFI MINI SOUND BAR



Internal Photos
M/N: MAGNIFI MINI SOUND BAR



Remote control Photos
M/N: MAGNIFI MINI SOUND BAR



Adapter Photos

