

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Klipsch L.L.C.

2.0 SOUND BAR WITH INTEGRATED SUBWOOFER

Model Number: RSB-3

Additional Model: STUDIO SB 36

FCC ID: STI-RSB36J

Prepared for:	Klipsch L.L.C.
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Prepared By:	EST Technology Co., Ltd.
	San Tun Management Zone, Houjie District, Dongguan, China
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Report Number:	ESTE-R1707022
Date of Test:	June 17 ~ July 10, 2017
Date of Report:	July 12, 2017

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT)	5
2. SUMMARY OF TEST	6
2.1. Summary of test result.....	6
2.2. Test Facilities	7
2.3. Measurement uncertainty	8
2.4. Assistant equipment used for test.....	8
2.5. Block Diagram	8
2.6. Test mode	9
2.7. Channel List for Bluetooth.....	9
2.8. Test Equipment.....	10
3 POWER LINE CONDUCTED EMISSION TEST.....	11
3.1 Limit	11
3.2 Test Procedure.....	11
3.3 Test Result.....	11
3.4 Test data	12
4 RADIATED EMISSION TEST	20
4.1 Limit.....	20
4.2. Block Diagram of Test setup.....	21
4.3. Test Procedure.....	22
4.4. Test Result.....	22
4.5. Test Data	23
5 BAND EDGE COMPLIANCE TEST	45
5.1 Limit	45
5.2 Block Diagram of Test setup.....	45
5.3 Test Procedure.....	45
5.4 Test Result.....	45
5.5 Test Data	46
6 6dB Bandwidth Test.....	62
6.1 Limit	62
6.2 Test Procedure.....	62
6.3 Test Result.....	62
6.4 Test Data	63
7 OUTPUT POWER TEST	67
7.1 Limit.....	67
7.2 Test Procedure.....	67
7.3 Test Result.....	67
7.4 Test Data	68
8 POWER SPECTRAL DENSITY TEST	72
8.1 Limit	72
8.2 Test Procedure.....	72

8.3	Test Result.....	73
8.4	Test Data	74
9	ANTENNA REQUIREMENTS	78
9.1	Limit	78
9.2	Result.....	78
10	TEST SETUP PHOTO	79
11	PHOTO EUT.....	81

Test Report Verification

Applicant:	Klipsch L.L.C.		
Address:	3502 Woodview Trace, Suite 200, Indianapolis, IN 46268, USA		
Manufacturer:	Klipsch L.L.C.		
Address:	3502 Woodview Trace, Suite 200, Indianapolis, IN 46268, USA		
Factory:	Zhao Yang Electronic (Shen Zhen) Co.,Ltd.		
Address:	Building 2,De Yong Jia Industrial Park,Guang Qiao Road,Yu Lv Community, Gong Ming Street,Guang Ming New District,Shenzhen,Guangdong,P.R.China		
E.U.T:	2.0 SOUND BAR WITH INTEGRATED SUBWOOFER		
Model Number:	RSB-3		
Additional Model:	STUDIO SB 36 (The difference among the two models is just the trademark,appearance and model name, other is the same. The RSB-3 with trade name is " Klipsch ", metal cover; The STUDIO SB 36 with trade name is " Jamo ", cloth cover.)		
Power Supply:	DC 18V From Adapter		
Test Voltage:	DC 18V From Adapter Input AC 120V/60Hz DC 18V From Adapter Input AC 240V/60Hz		
Trade Name:	Klipsch	Jamo	Serial No.: -----
Date of Receipt:	June 17, 2017	Date of Test:	June 17 ~ July 10, 2017
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2016 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>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> <p style="text-align: right;">Date: July 12, 2017</p>		
Prepared by:	Tested by:	Approved by:	
			
Amy / 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	:	2.0 SOUND BAR WITH INTEGRATED SUBWOOFER	
FCC ID	:	STI-RSB36J	
Model Number	:	RSB-3	
Operation frequency	:	2402MHz~2480MHz	
Number of channel	:	79	40
Antenna	:	Antenna 1: PIFA antenna , 4.93 dBi gain Antenna 2: PCB antenna , 0.00 dBi gain	
Modulation	:	Dual-mode Bluetooth 4.2 BT BDR: GFSK BT EDR: $\pi/4$ -DQPSK BT EDR: 8-DPSK	Dual-mode Bluetooth 4.2 BLE: GFSK
Sample Type	:	Prototype production	

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: KDB 558074 D01 DTS Meas Guidance v04		

2.2. Test Facilities

EMC Lab	:	Certificated by CNAS, CHINA Registration No.: L5288 Date of registration: December 07, 2015 Certificated by FCC, USA Registration No.: 989591 Date of registration: November 15, 2016 Certificated by Industry Canada Registration No.: 9405A-1 Date of registration: December 30, 2015 Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011 Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011 Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011 Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011 Certificated by Siemic, Inc. Registration No.: SLCN021 Date of registration: November 8, 2011 Certificated 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 Town, 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.

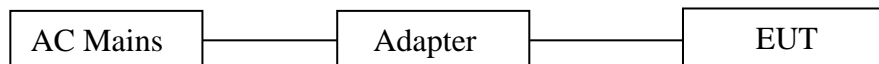
2.4. Assistant equipment used for test

2.4.1. Adapter

M/N : DYS650-180280W-K
 Input : 100-240V~50/60Hz 1.3A MAX
 Output : 18.0V/2.8A

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 Bluetooth test mode by software before test.



(EUT: 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER)

2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

Mode	Channel	Frequency
BT 4.0-BLE GFSK	Low	2402MHz
	Middle	2440MHz
	High	2480MHz

2.7. Channel List for Bluetooth

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2402	2	2404
3	2406	4	2408
5	2410	6	2412
7	2414	8	2416
9	2418	10	2420
11	2422	12	2424
13	2426	14	2428
15	2430	16	2432
17	2434	18	2436
19	2438	20	2440
21	2442	22	2444
23	2446	24	2448
25	2450	26	2452
27	2454	28	2456
29	2458	30	2460
31	2462	32	2464
33	2466	34	2468
35	2470	36	2472
37	2474	38	2476
39	2478	40	2480

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 17,17	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 17,17	3 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 28,15	3 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.8.4. 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 28,15	3 Year
Board-Band Horn Antenna	SCHWARZB ECK	BBHA 9170	9170-497	June 28,15	3Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year

3 POWER LINE CONDUCTED EMISSION TEST

3.1 Limit

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

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

3.2 Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT was charged from Adapter which connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

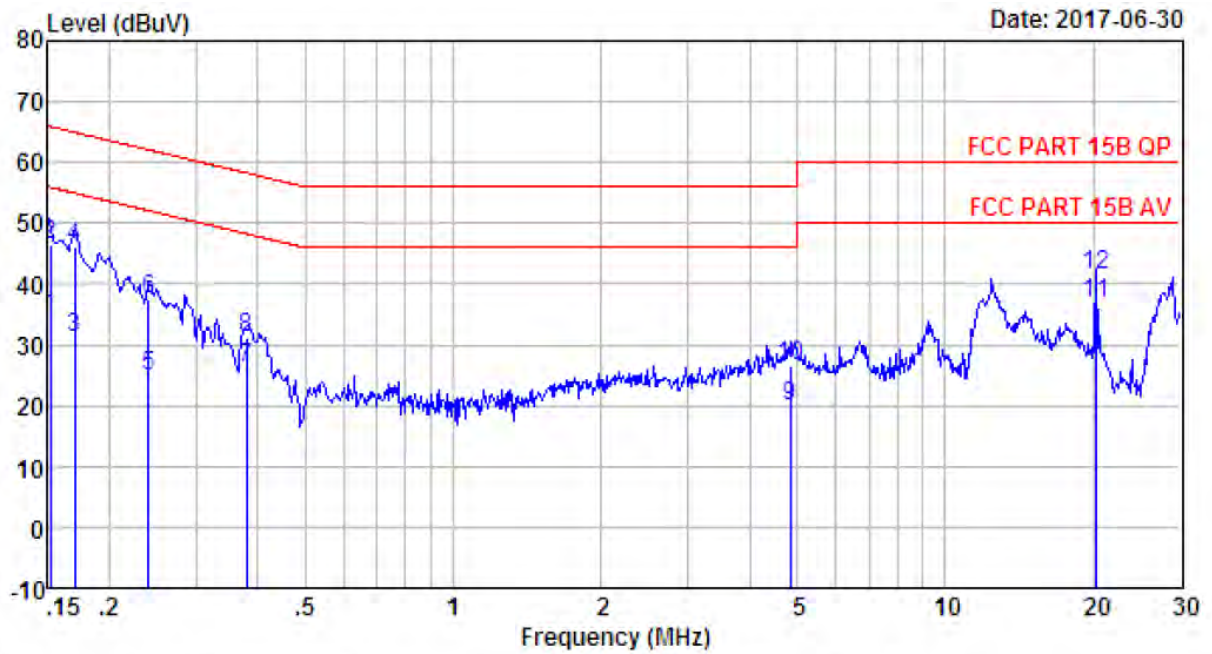
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

3.3. Test Result

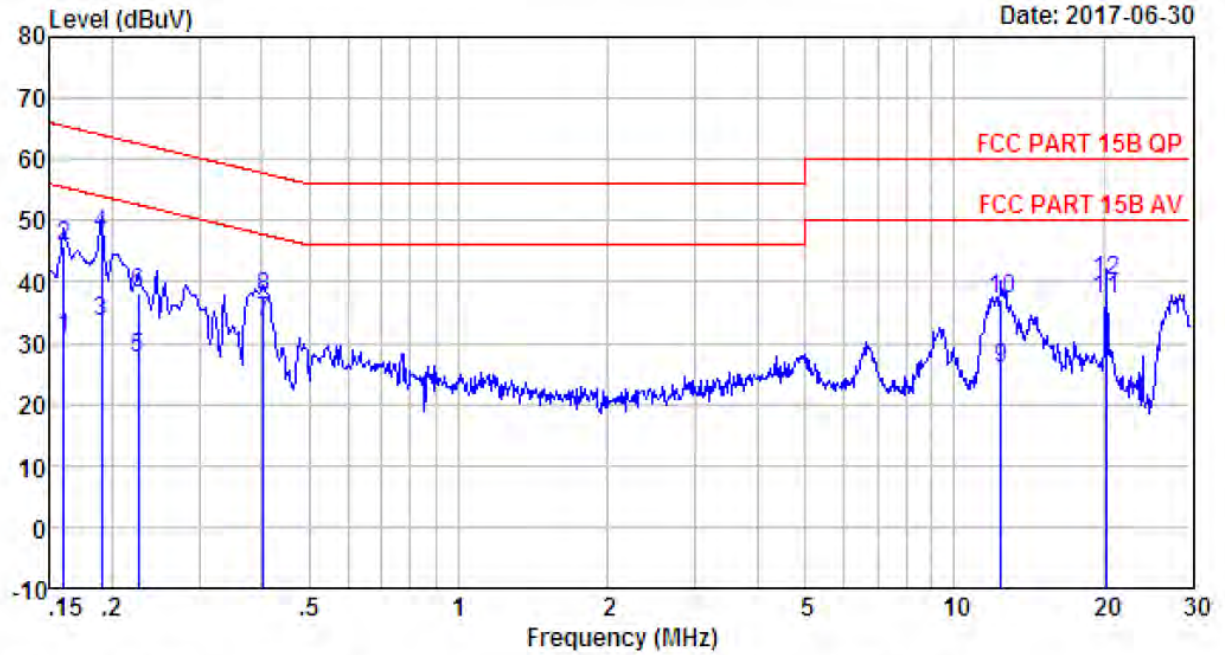
PASS. (All emissions not reported below are too low against the prescribed limits.)

3.4. Test data



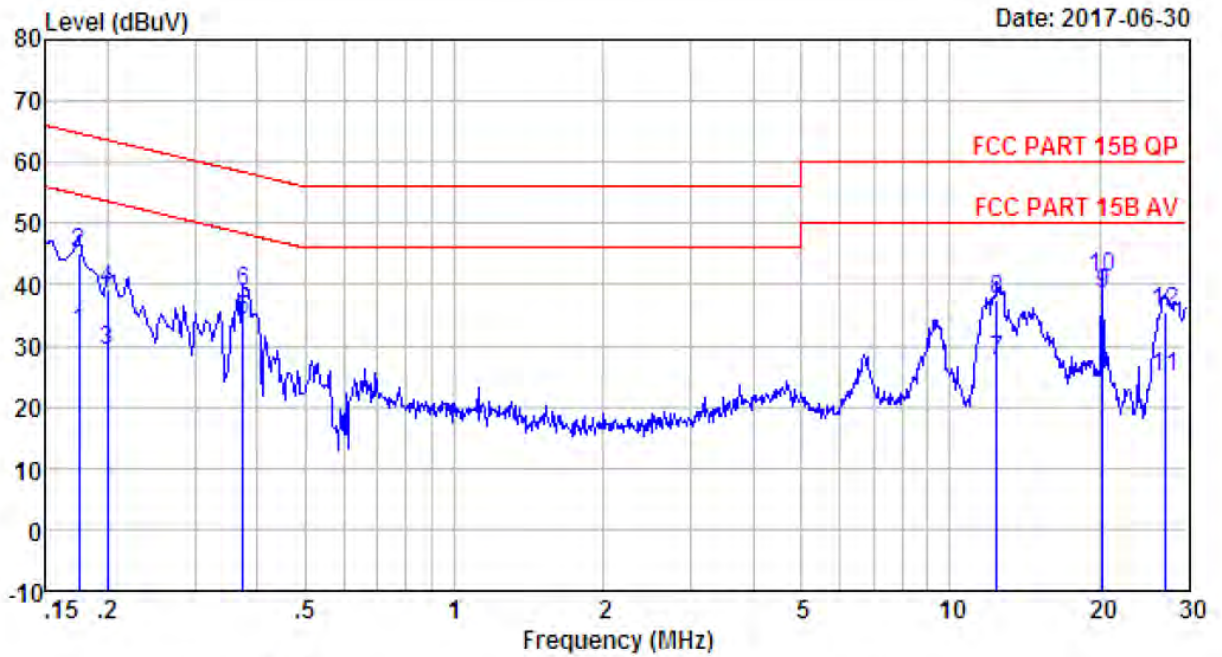
Site no : 844 Shield Room Data no. : 213
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 240V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode

	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	15.23	34.50	55.91	21.41	Average
2	0.15	9.46	9.81	27.07	46.34	65.91	19.57	QP
3	0.17	9.52	9.81	11.95	31.28	54.94	23.66	Average
4	0.17	9.52	9.81	26.75	46.08	64.94	18.86	QP
5	0.24	9.60	9.82	5.54	24.96	52.08	27.12	Average
6	0.24	9.60	9.82	18.05	37.47	62.08	24.61	QP
7	0.38	9.59	9.82	6.80	26.21	48.30	22.09	Average
8	0.38	9.59	9.82	11.87	31.28	58.30	27.02	QP
9	4.85	9.65	9.85	0.54	20.04	46.00	25.96	Average
10	4.85	9.65	9.85	7.06	26.56	56.00	29.44	QP
11	20.27	9.86	9.98	17.12	36.96	50.00	13.04	Average
12	20.27	9.86	9.98	21.61	41.45	60.00	18.55	QP



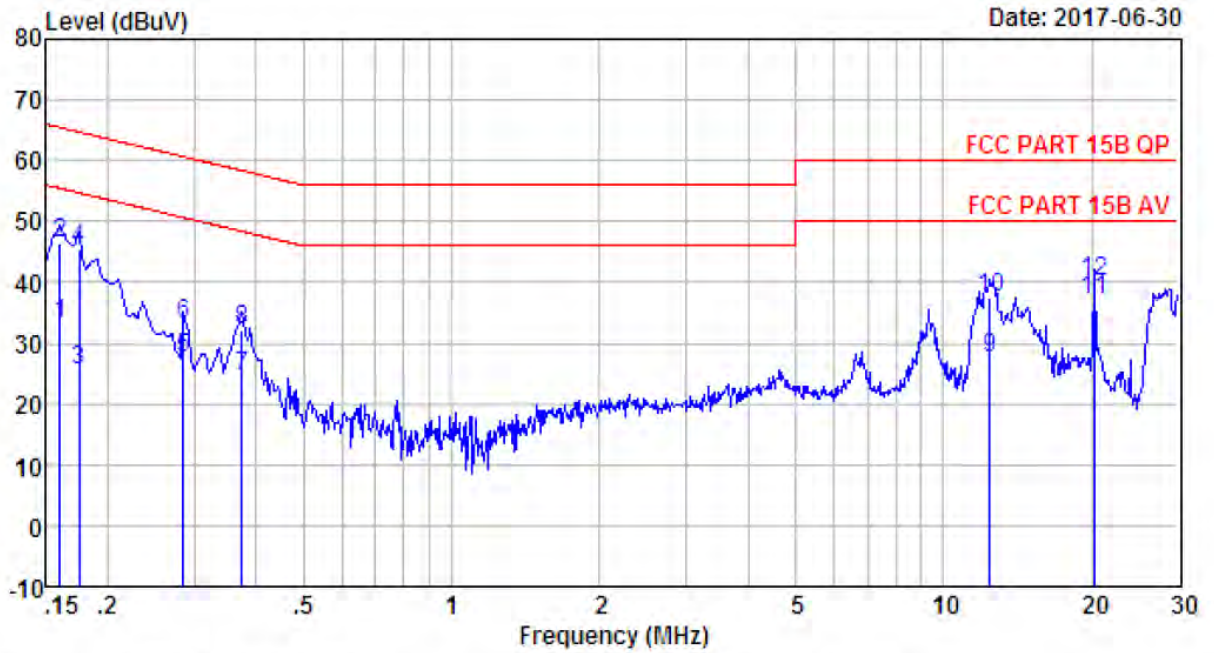
Site no : 844 Shield Room Data no. : 215
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 240V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.61	9.81	11.28	30.70	55.47	24.77	Average
2	0.16	9.61	9.81	26.24	45.66	65.47	19.81	QP
3	0.19	9.61	9.80	13.95	33.36	54.02	20.66	Average
4	0.19	9.61	9.80	28.50	47.91	64.02	16.11	QP
5	0.23	9.61	9.80	8.04	27.45	52.61	25.16	Average
6	0.23	9.61	9.80	18.90	38.31	62.61	24.30	QP
7	0.40	9.61	9.82	14.01	33.44	47.77	14.33	Average
8	0.40	9.61	9.82	17.92	37.35	57.77	20.42	QP
9	12.45	9.67	9.90	6.25	25.82	50.00	24.18	Average
10	12.45	9.67	9.90	17.50	37.07	60.00	22.93	QP
11	20.27	9.67	9.98	17.45	37.10	50.00	12.90	Average
12	20.27	9.67	9.98	20.63	40.28	60.00	19.72	QP



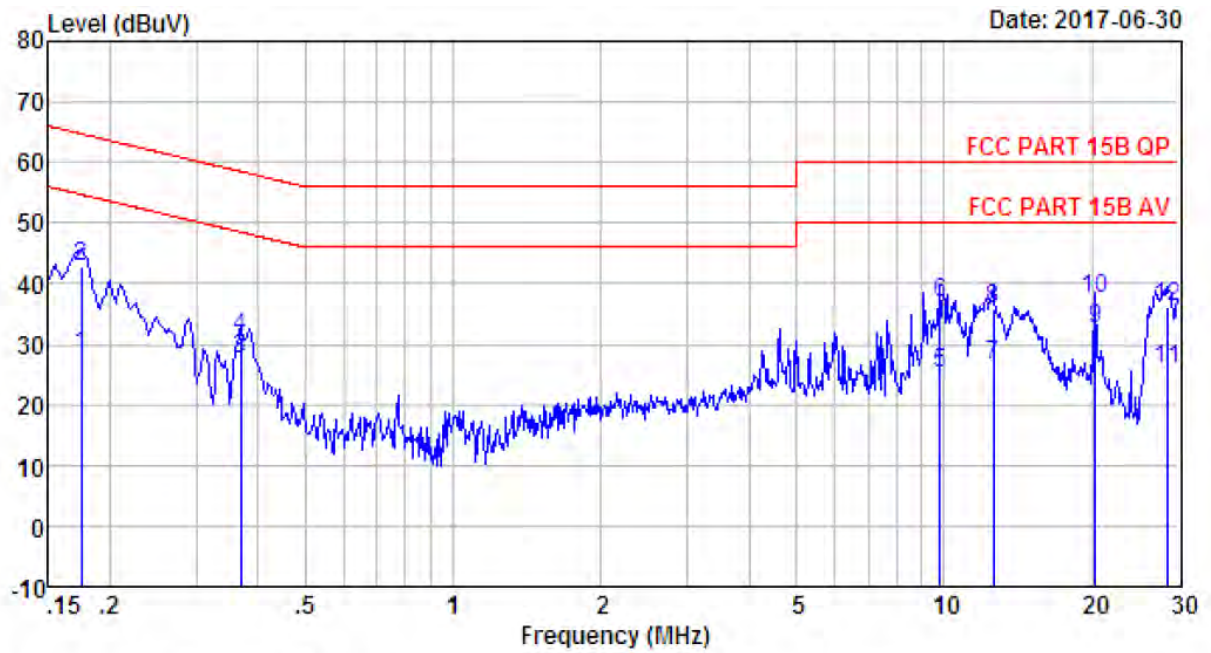
Site no : 844 Shield Room Data no. : 217
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.61	9.80	12.85	32.26	54.72	22.46	Average
2	0.17	9.61	9.80	25.68	45.09	64.72	19.63	QP
3	0.20	9.61	9.80	9.80	29.21	53.62	24.41	Average
4	0.20	9.61	9.80	19.66	39.07	63.62	24.55	QP
5	0.38	9.61	9.82	14.68	34.11	48.39	14.28	Average
6	0.38	9.61	9.82	19.40	38.83	58.39	19.56	QP
7	12.45	9.67	9.90	8.12	27.69	50.00	22.31	Average
8	12.45	9.67	9.90	17.99	37.56	60.00	22.44	QP
9	20.27	9.67	9.98	18.84	38.49	50.00	11.51	Average
10	20.27	9.67	9.98	21.43	41.08	60.00	18.92	QP
11	27.13	9.70	10.03	5.24	24.97	50.00	25.03	Average
12	27.13	9.70	10.03	15.63	35.36	60.00	24.64	QP



Site no : 844 Shield Room Data no. : 219
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : IX Mode

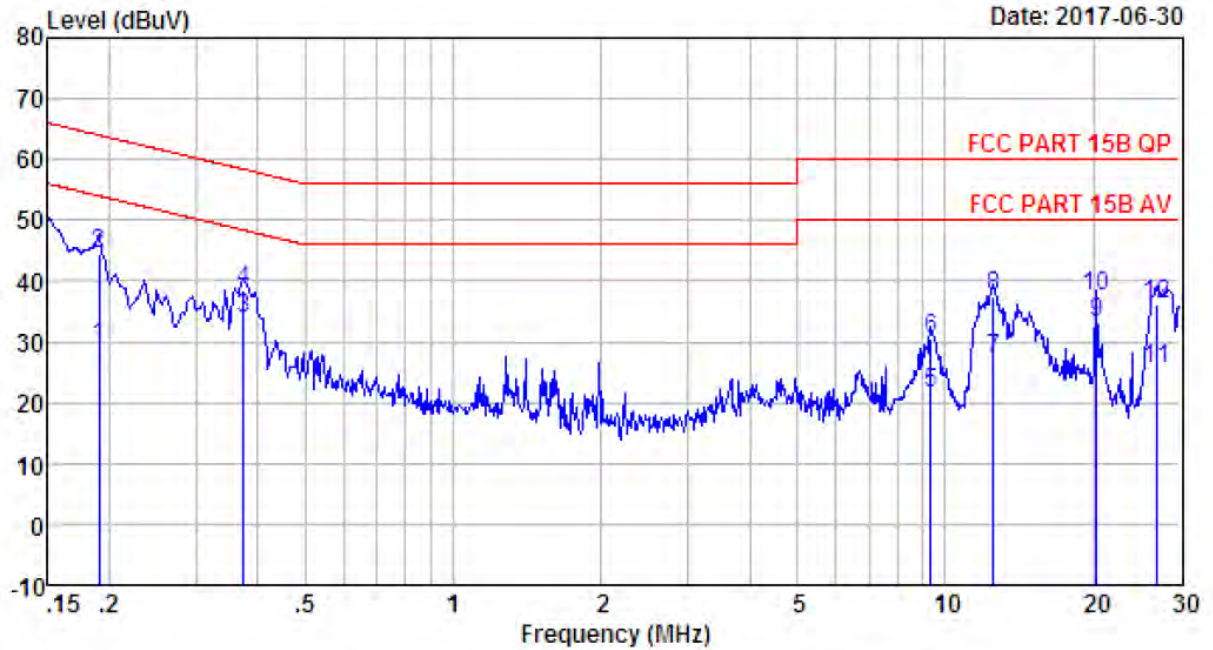
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.49	9.81	13.82	33.12	55.47	22.35	Average
2	0.16	9.49	9.81	27.24	46.54	65.47	18.93	QP
3	0.17	9.54	9.80	6.35	25.69	54.72	29.03	Average
4	0.17	9.54	9.80	26.10	45.44	64.72	19.28	QP
5	0.28	9.60	9.83	8.26	27.69	50.68	22.99	Average
6	0.28	9.60	9.83	13.87	33.30	60.68	27.38	QP
7	0.38	9.59	9.82	5.09	24.50	48.39	23.89	Average
8	0.38	9.59	9.82	12.89	32.30	58.39	26.09	QP
9	12.45	9.72	9.90	7.84	27.46	50.00	22.54	Average
10	12.45	9.72	9.90	17.72	37.34	60.00	22.66	QP
11	20.27	9.86	9.98	17.21	37.05	50.00	12.95	Average
12	20.27	9.86	9.98	20.31	40.15	60.00	19.85	QP



Date: 2017-06-30

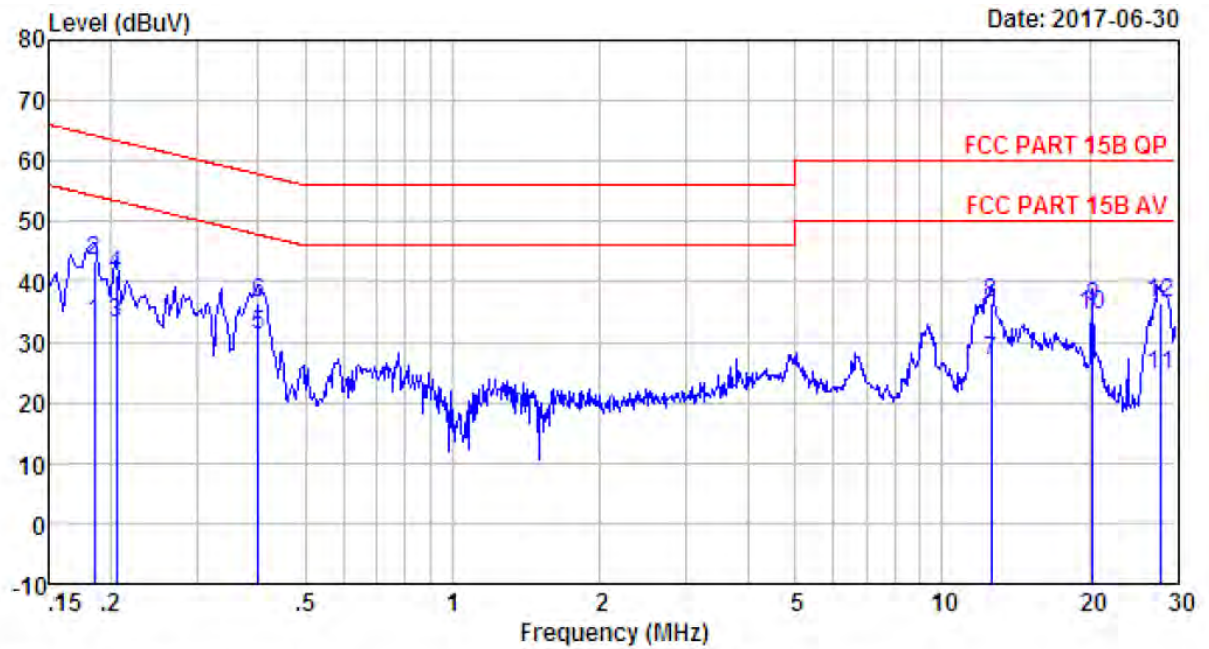
Site no : 844 Shield Room Data no. : 205
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.54	9.80	8.88	28.22	54.72	26.50	Average
2	0.17	9.54	9.80	23.43	42.77	64.72	21.95	QP
3	0.37	9.59	9.82	8.19	27.60	48.52	20.92	Average
4	0.37	9.59	9.82	11.68	31.09	58.52	27.43	QP
5	9.81	9.70	9.89	5.54	25.13	50.00	24.87	Average
6	9.81	9.70	9.89	17.12	36.71	60.00	23.29	QP
7	12.58	9.72	9.91	6.81	26.44	50.00	23.56	Average
8	12.58	9.72	9.91	16.29	35.92	60.00	24.08	QP
9	20.27	9.86	9.98	12.70	32.54	50.00	17.46	Average
10	20.27	9.86	9.98	17.68	37.52	60.00	22.48	QP
11	28.45	9.82	10.05	5.84	25.71	50.00	24.29	Average
12	28.45	9.82	10.05	16.46	36.33	60.00	23.67	QP



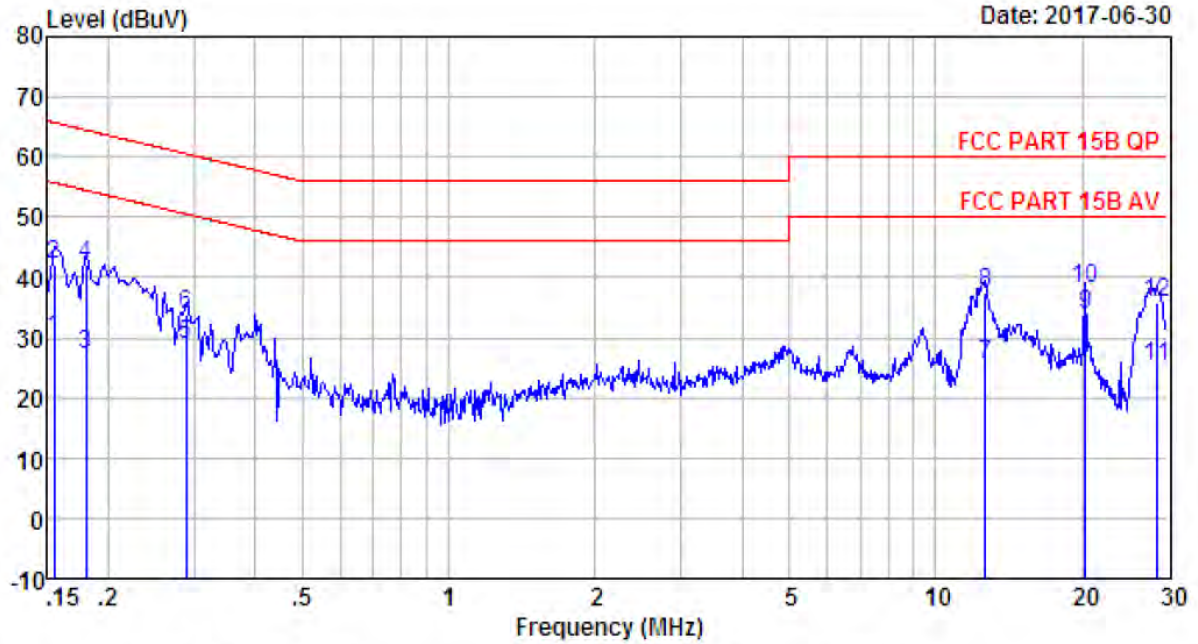
Site no : 844 Shield Room Data no. : 207
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	9.61	9.80	9.63	29.04	54.02	24.98	Average
2	0.19	9.61	9.80	25.22	44.63	64.02	19.39	QP
3	0.38	9.61	9.82	14.38	33.81	48.39	14.58	Average
4	0.38	9.61	9.82	19.06	38.49	58.39	19.90	QP
5	9.35	9.66	9.87	2.12	21.65	50.00	28.35	Average
6	9.35	9.66	9.87	10.82	30.35	60.00	29.65	QP
7	12.52	9.67	9.90	7.49	27.06	50.00	22.94	Average
8	12.52	9.67	9.90	17.96	37.53	60.00	22.47	QP
9	20.27	9.67	9.98	13.44	33.09	50.00	16.91	Average
10	20.27	9.67	9.98	17.77	37.42	60.00	22.58	QP
11	26.84	9.70	10.04	5.69	25.43	50.00	24.57	Average
12	26.84	9.70	10.04	16.54	36.28	60.00	23.72	QP



Site no : 844 Shield Room Data no. : 209
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 240V/60Hz
 M/N : STUDIO SB 36
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.19	9.61	9.80	13.72	33.13	54.24	21.11	Average
2	0.19	9.61	9.80	24.17	43.58	64.24	20.66	QP
3	0.21	9.61	9.80	13.75	33.16	53.40	20.24	Average
4	0.21	9.61	9.80	21.84	41.25	63.40	22.15	QP
5	0.40	9.61	9.82	11.75	31.18	47.86	16.68	Average
6	0.40	9.61	9.82	17.06	36.49	57.86	21.37	QP
7	12.58	9.67	9.91	7.15	26.73	50.00	23.27	Average
8	12.58	9.67	9.91	16.97	36.55	60.00	23.45	QP
9	20.27	9.67	9.98	16.28	35.93	50.00	14.07	Average
10	20.27	9.67	9.98	15.01	34.66	60.00	25.34	QP
11	28.00	9.69	10.05	4.76	24.50	50.00	25.50	Average
12	28.00	9.69	10.05	16.61	36.35	60.00	23.65	QP



Site no : 844 Shield Room Data no. : 211
 Env. / Ins. : Temp:24.5C Humi:57.1% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 240V/60Hz
 M/N : STUDIO SB 36
 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	9.48	9.81	10.71	30.00	55.74	25.74	Average
2	0.15	9.48	9.81	22.74	42.03	65.74	23.71	QP
3	0.18	9.55	9.80	7.91	27.26	54.50	27.24	Average
4	0.18	9.55	9.80	22.86	42.21	64.50	22.29	QP
5	0.29	9.60	9.83	9.28	28.71	50.54	21.83	Average
6	0.29	9.60	9.83	14.30	33.73	60.54	26.81	QP
7	12.65	9.73	9.92	5.95	25.60	50.00	24.40	Average
8	12.65	9.73	9.92	17.89	37.54	60.00	22.46	QP
9	20.27	9.86	9.98	14.05	33.89	50.00	16.11	Average
10	20.27	9.86	9.98	18.38	38.22	60.00	21.78	QP
11	28.45	9.82	10.05	5.42	25.29	50.00	24.71	Average
12	28.45	9.82	10.05	15.99	35.86	60.00	24.14	QP

4 RADIATED EMISSION TEST

4.1 Limit

4.1.1 15.209 limits

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

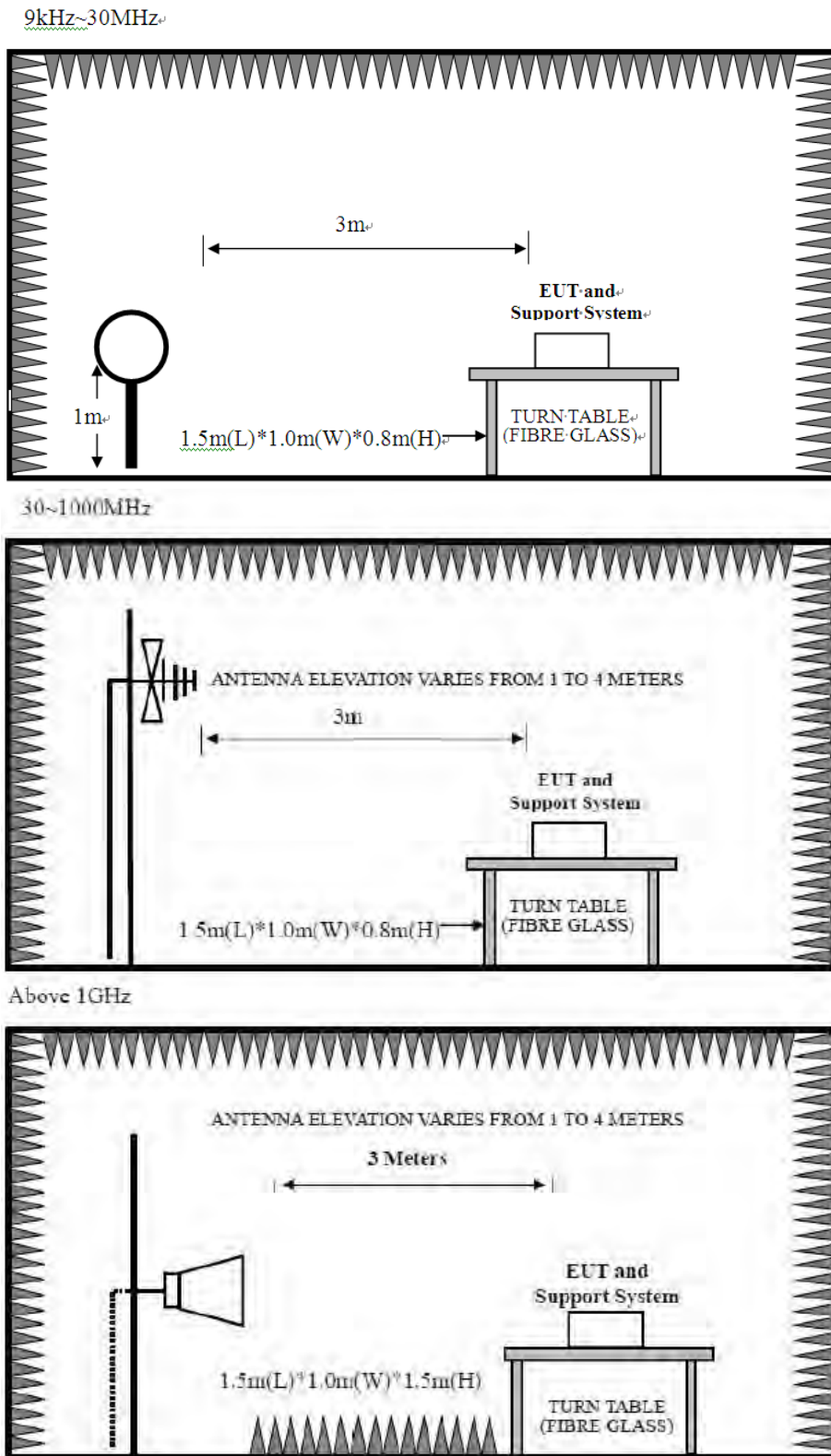
- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.1.2 15.205 Restricted bands of operation

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

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

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 9kHz~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 test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

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

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

- 2、 The frequency 2402MHz 、 2440MHz and 2480 MHz 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.

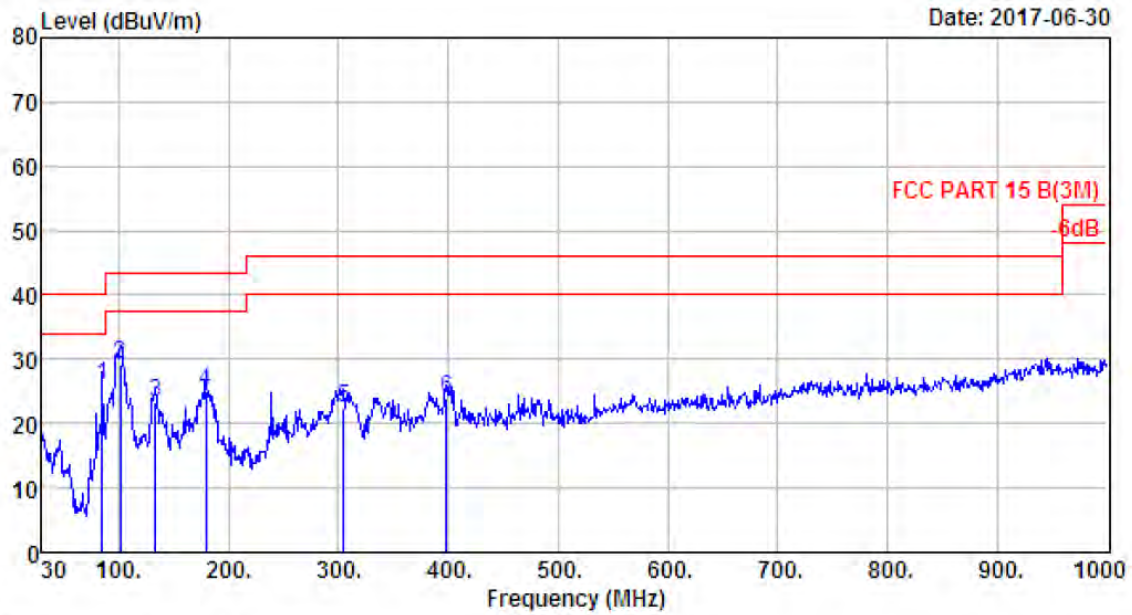
4.5. Test Data

9 kHz – 30 MHz

Pass

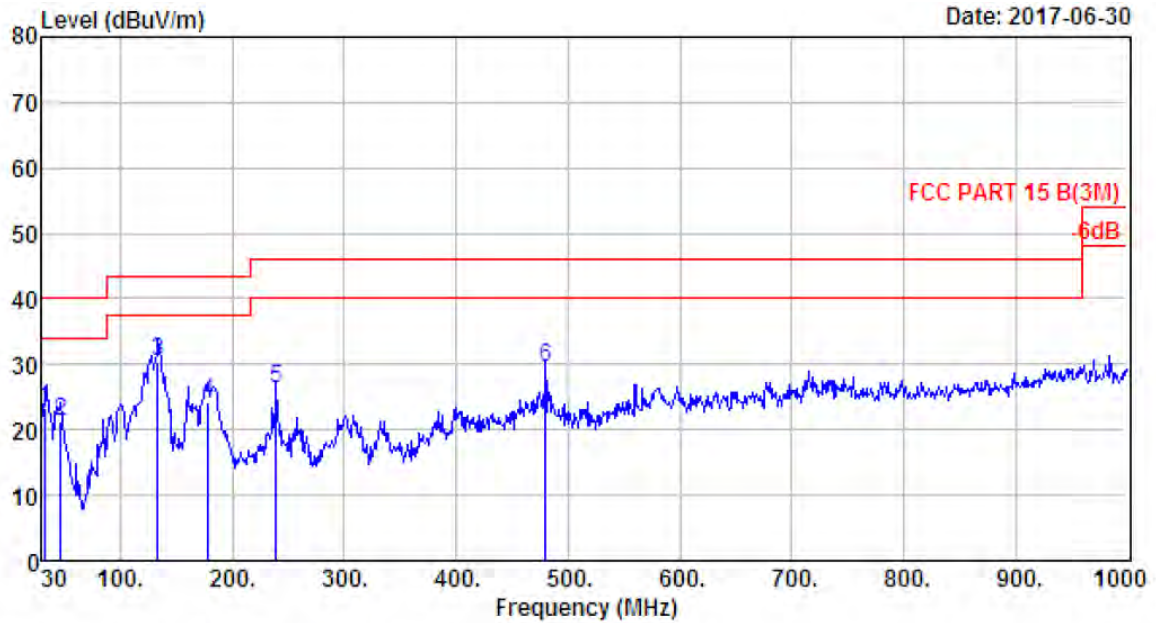
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz



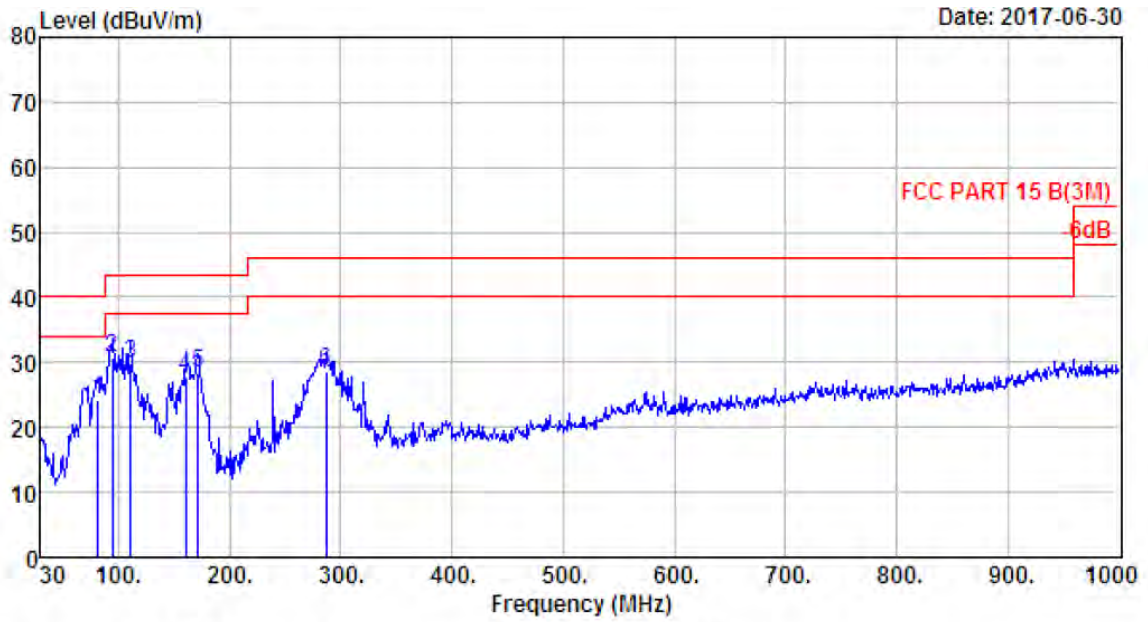
Site no. : 1# 966 Chamber Data no. : 173
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.1';Humi:51%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode
 Antenna 1

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	85.29	7.72	1.18	17.05	25.95	40.00	14.05	QP
2	101.78	9.65	1.31	18.16	29.12	43.50	14.38	QP
3	133.79	11.36	1.56	10.39	23.31	43.50	20.19	QP
4	179.38	8.96	1.72	14.27	24.95	43.50	18.55	QP
5	304.51	13.10	2.37	6.96	22.43	46.00	23.57	QP
6	398.60	16.00	2.67	5.27	23.94	46.00	22.06	QP



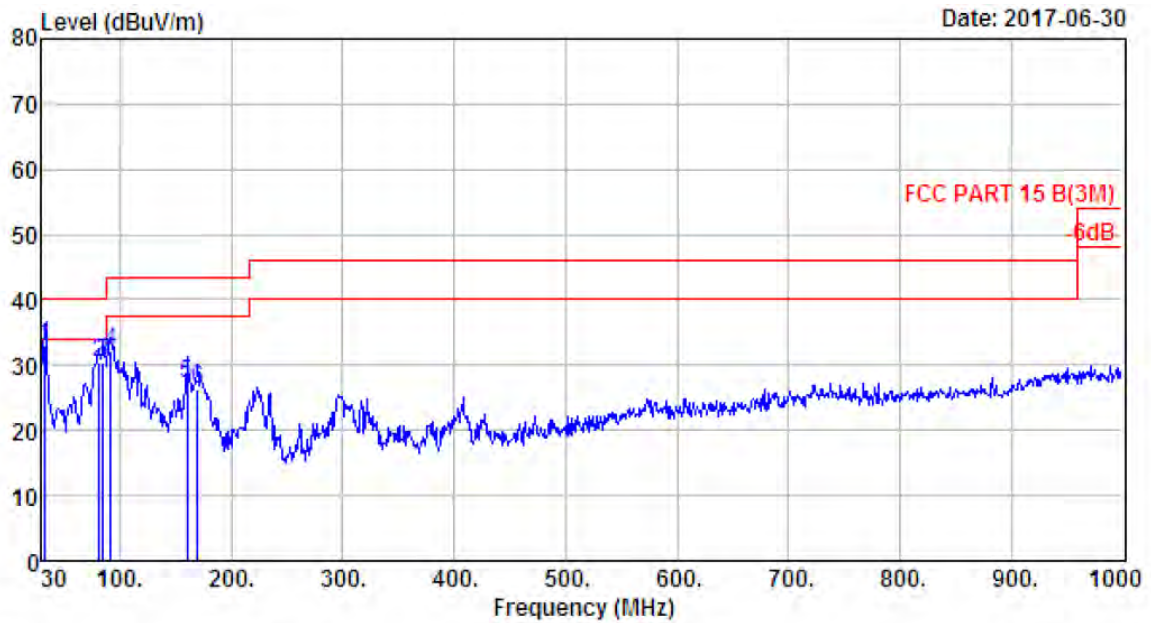
Site no. : 1# 966 Chamber Data no. : 174
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.1';Humi:51%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode
 Antenna 1

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.91	16.62	0.69	5.89	23.20	40.00	16.80	QP
2	46.49	9.20	0.87	11.25	21.32	40.00	18.68	QP
3	133.79	11.36	1.56	17.63	30.55	43.50	12.95	QP
4	178.41	8.96	1.69	13.54	24.19	43.50	19.31	QP
5	239.52	10.22	2.11	14.00	26.33	46.00	19.67	QP
6	480.08	17.45	3.10	9.09	29.64	46.00	16.36	QP



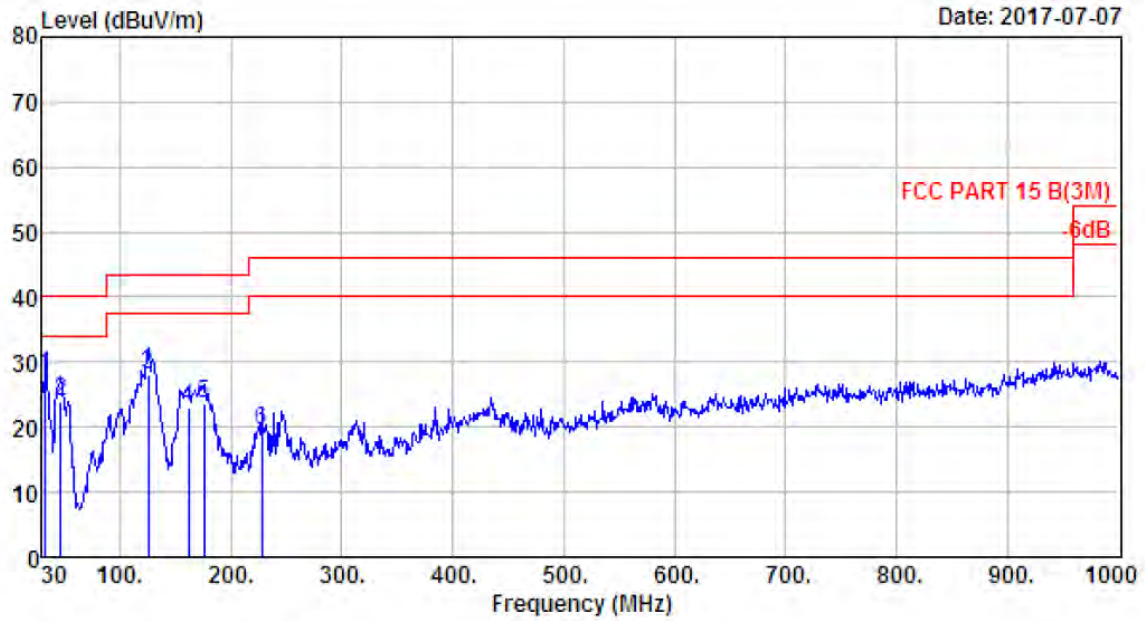
Site no. : 1# 966 Chamber Data no. : 107
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.1';Humi:51%;Press:101.52kPa
 Engineer : Tony
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : IX Mode
 Antenna 1

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	81.41	7.20	1.25	15.72	24.17	40.00	15.83	QP
2	94.02	8.74	1.28	20.62	30.64	43.50	12.86	QP
3	110.51	10.52	1.42	17.99	29.93	43.50	13.57	QP
4	159.98	10.36	1.71	15.54	27.61	43.50	15.89	QP
5	171.62	9.12	1.68	17.61	28.41	43.50	15.09	QP
6	287.05	12.59	2.32	13.58	28.49	46.00	17.51	QP



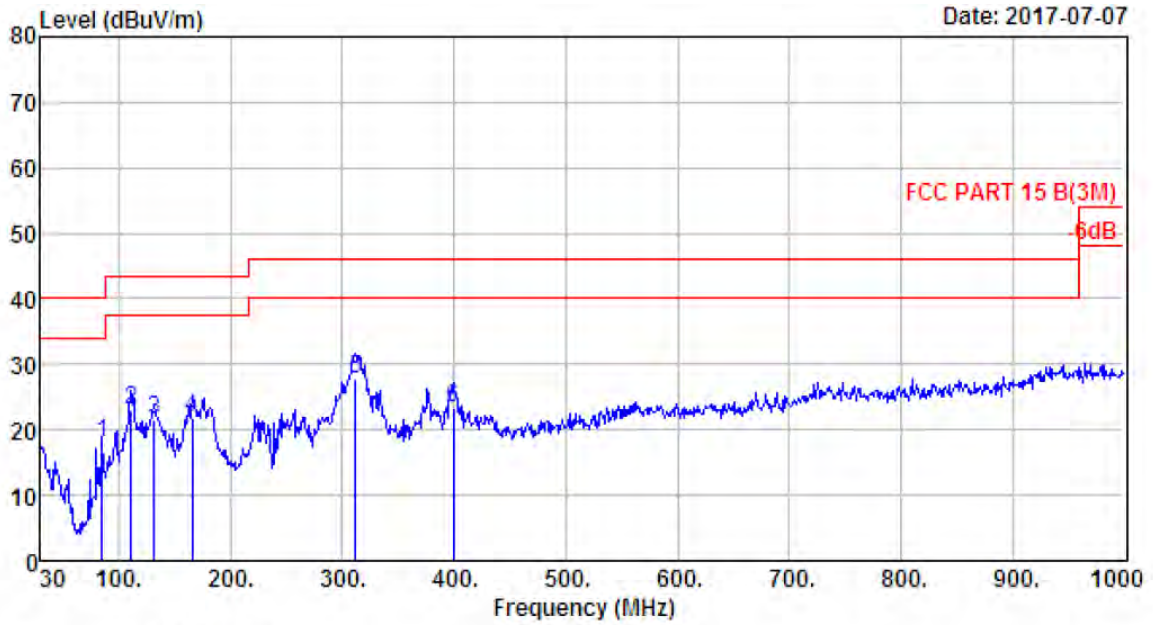
Site no. : 1# 966 Chamber Data no. : 108
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:24.1';Humi:51%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : TX Mode
 Antenna 1

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.91	16.62	0.69	15.64	32.95	40.00	7.05	QP
2	81.41	7.20	1.25	21.92	30.37	40.00	9.63	QP
3	85.29	7.72	1.18	21.43	30.33	40.00	9.67	QP
4	92.08	8.45	1.26	22.47	32.18	43.50	11.32	QP
5	159.98	10.36	1.71	15.23	27.30	43.50	16.20	QP
6	169.68	9.20	1.69	15.28	26.17	43.50	17.33	QP



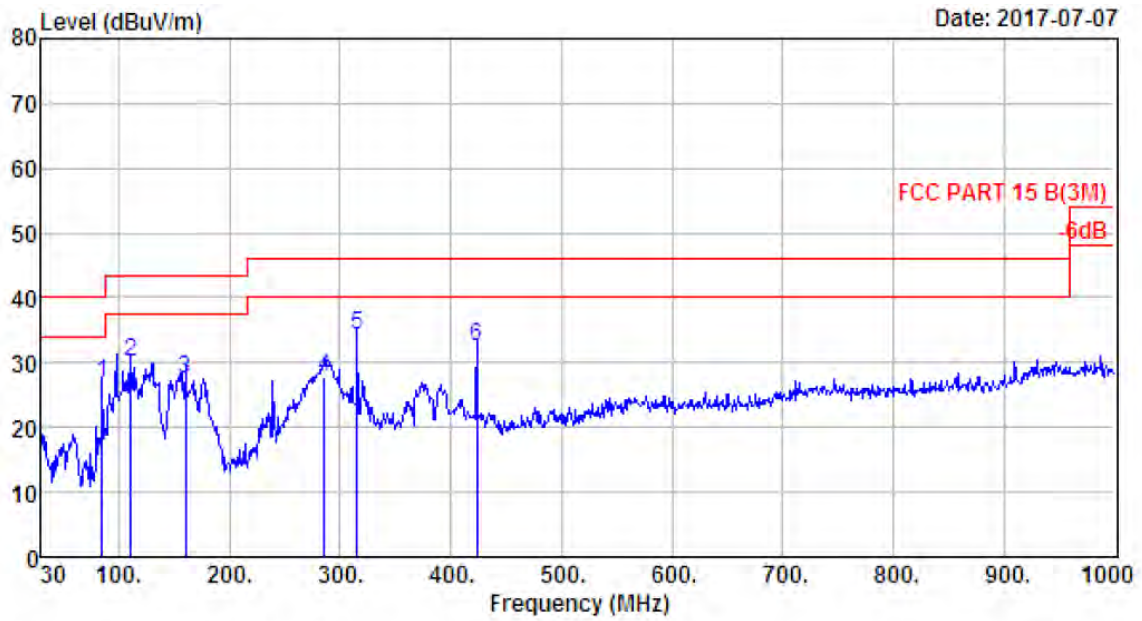
Site no. : 1# 966 Chamber Data no. : 189
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode
 Antenna 2

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.91	16.62	0.69	10.72	28.03	40.00	11.97	QP
2	46.49	9.20	0.87	13.73	23.80	40.00	16.20	QP
3	126.03	11.34	1.52	15.18	28.04	43.50	15.46	QP
4	161.92	10.12	1.69	11.29	23.10	43.50	20.40	QP
5	175.50	8.98	1.68	12.97	23.63	43.50	19.87	QP
6	227.88	9.46	2.09	8.04	19.59	46.00	26.41	QP



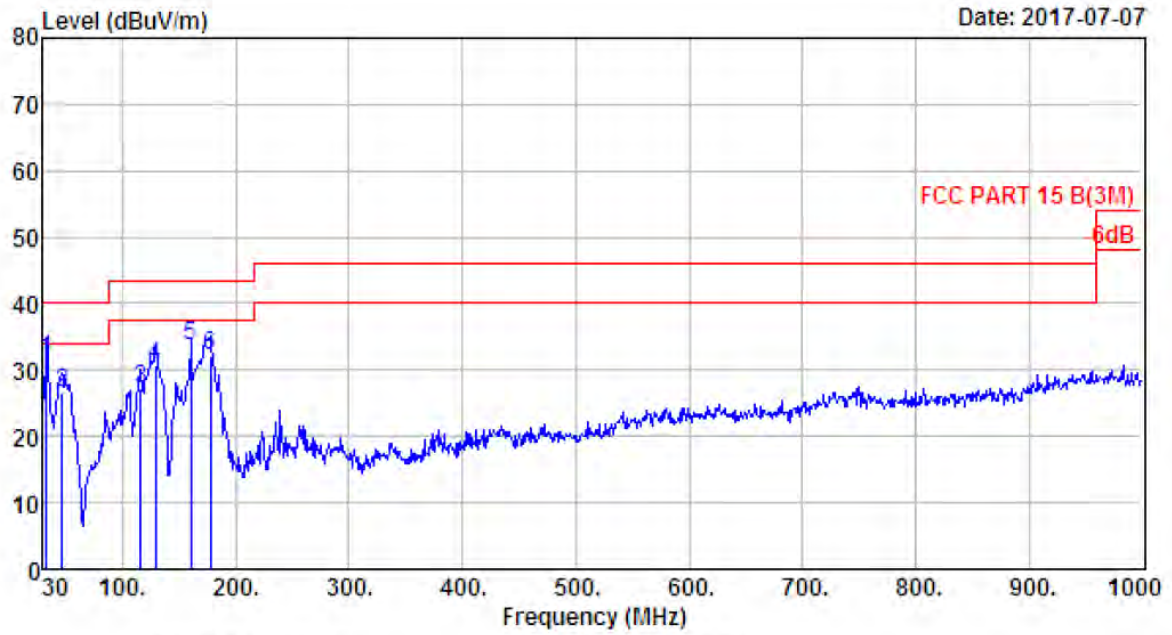
Site no. : 1# 966 Chamber Data no. : 190
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : TX Mode
 Antenna 2

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	85.29	7.72	1.18	9.01	17.91	40.00	22.09	QP
2	110.51	10.52	1.42	11.03	22.97	43.50	20.53	QP
3	131.85	11.34	1.50	8.72	21.56	43.50	21.94	QP
4	165.80	9.66	1.68	10.55	21.89	43.50	21.61	QP
5	312.27	13.27	2.39	12.01	27.67	46.00	18.33	QP
6	399.57	16.05	2.67	4.46	23.18	46.00	22.82	QP



Site no. : 1# 966 Chamber Data no. : 181
 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
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : TX Mode
 Antenna 2

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	85.29	7.72	1.18	17.84	26.74	40.00	13.26	QP
2	110.51	10.52	1.42	18.28	30.22	43.50	13.28	QP
3	159.98	10.36	1.71	15.35	27.42	43.50	16.08	QP
4	286.08	12.59	2.32	12.72	27.63	46.00	18.37	QP
5	315.18	13.39	2.42	18.41	34.22	46.00	11.78	QP
6	423.82	16.20	2.77	13.43	32.40	46.00	13.60	QP



Site no. : 1# 966 Chamber Data no. : 182
 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
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : IX Mode
 Antenna 2

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.91	16.62	0.69	14.30	31.61	40.00	8.39	QP
2	46.49	9.20	0.87	16.43	26.50	40.00	13.50	QP
3	116.33	10.98	1.50	14.75	27.23	43.50	16.27	QP
4	128.94	11.33	1.47	18.02	30.82	43.50	12.68	QP
5	159.98	10.36	1.71	21.58	33.65	43.50	9.85	QP
6	177.44	8.97	1.67	21.48	32.12	43.50	11.38	QP

Above 1000MHz

Site no. : 1# 966 Chamber Data no. : 37
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2402.00	27.61	6.62	34.64	94.30	93.89	74.00	-19.89	Peak
2	4804.00	31.25	11.77	35.64	36.83	44.21	74.00	29.79	Peak
3	7206.00	36.52	11.54	33.95	28.47	42.58	74.00	31.42	Peak
4	11370.00	39.28	11.02	33.51	23.75	40.54	74.00	33.46	Peak
5	14056.00	41.51	10.90	33.06	24.31	43.66	74.00	30.34	Peak
6	18000.00	46.45	11.38	32.12	21.88	47.59	74.00	26.41	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. : 1# 966 Chamber Data no. : 38
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2402.00	27.61	6.62	34.64	102.43	102.02	74.00	-28.02	Peak
2	4804.00	31.25	11.77	35.64	39.89	47.27	74.00	26.73	Peak
3	7206.00	36.52	11.54	33.95	28.87	42.98	74.00	31.02	Peak
4	11166.00	39.41	11.17	33.31	26.35	43.62	74.00	30.38	Peak
5	13580.00	40.31	11.40	32.64	25.63	44.70	74.00	29.30	Peak
6	17796.00	44.45	11.14	30.45	20.79	45.93	74.00	28.07	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. : 1# 966 Chamber Data no. : 39
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2440MHz
 Antenna 1

	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	2440.00	27.60	6.67	34.85	94.94	94.36	74.00	-20.36	Peak
2	4880.00	31.37	12.07	35.76	36.31	43.99	74.00	30.01	Peak
3	7320.00	36.55	11.57	34.14	30.88	44.86	74.00	29.14	Peak
4	8684.00	37.32	11.45	33.66	26.92	42.03	74.00	31.97	Peak
5	14464.00	41.85	10.93	33.45	22.89	42.22	74.00	31.78	Peak
6	17966.00	46.12	11.34	31.76	17.17	42.87	74.00	31.13	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. : 1# 966 Chamber Data no. : 40
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2440MHz
 Antenna 1

	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	2440.00	27.60	6.67	34.85	104.89	104.31	74.00	-30.31	Peak
2	4880.00	31.37	12.07	35.76	39.34	47.02	74.00	26.98	Peak
3	7320.00	36.55	11.57	34.14	27.27	41.25	74.00	32.75	Peak
4	11149.00	39.42	11.18	33.38	24.70	41.92	74.00	32.08	Peak
5	16725.00	38.93	10.73	32.83	23.82	40.65	74.00	33.35	Peak
6	17966.00	46.12	11.34	31.76	17.83	43.53	74.00	30.47	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. : 1# 966 Chamber Data no. : 41
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.00	27.58	6.71	35.11	101.59	100.77	74.00	-26.77	Peak
2	4960.00	31.49	12.44	36.01	41.48	49.40	74.00	24.60	Peak
3	7440.00	36.54	11.61	34.22	31.43	45.36	74.00	28.64	Peak
4	11064.00	39.48	11.24	33.83	27.52	44.41	74.00	29.59	Peak
5	15790.00	37.38	10.85	33.21	30.31	45.33	74.00	28.67	Peak
6	17966.00	46.12	11.34	31.76	21.16	46.86	74.00	27.14	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. : 1# 966 Chamber Data no. : 42
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.00	27.58	6.71	35.11	91.63	90.81	74.00	-16.81	Peak
2	4960.00	31.49	12.44	36.01	35.85	43.77	74.00	30.23	Peak
3	7440.00	36.54	11.61	34.22	30.03	43.96	74.00	30.04	Peak
4	11166.00	39.41	11.17	33.31	27.56	44.83	74.00	29.17	Peak
5	13240.00	39.46	11.46	32.88	27.32	45.36	74.00	28.64	Peak
6	16980.00	39.69	10.97	32.27	28.47	46.86	74.00	27.14	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. : 1# 966 Chamber Data no. : 117
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2402.00	27.61	6.62	34.64	100.61	100.20	74.00	-26.20	Peak
2	4804.00	31.25	11.77	35.64	38.81	46.19	74.00	27.81	Peak
3	7206.00	36.52	11.54	33.95	30.76	44.87	74.00	29.13	Peak
4	10945.00	39.46	11.29	34.13	27.70	44.32	74.00	29.68	Peak
5	14124.00	41.57	10.91	33.22	26.59	45.85	74.00	28.15	Peak
6	16555.00	38.43	10.57	33.17	32.93	48.76	74.00	25.24	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. : 1# 966 Chamber Data no. : 118
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2402.00	27.61	6.62	34.64	98.19	97.78	74.00	-23.78	Peak
2	4804.00	31.25	11.77	35.64	41.42	48.80	74.00	25.20	Peak
3	7206.00	36.52	11.54	33.95	33.38	47.49	74.00	26.51	Peak
4	11200.00	39.39	11.14	33.24	26.83	44.12	74.00	29.88	Peak
5	12645.00	38.80	11.06	33.30	27.68	44.24	74.00	29.76	Peak
6	17966.00	46.12	11.34	31.76	19.98	45.68	74.00	28.32	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. : 1# 966 Chamber Data no. : 119
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2440MHz
 Antenna 1

	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	2440.00	27.60	6.67	34.85	99.58	99.00	74.00	-25.00	Peak
2	4880.00	31.37	12.07	35.76	36.07	43.75	74.00	30.25	Peak
3	7320.00	36.55	11.57	34.14	27.44	41.42	74.00	32.58	Peak
4	9330.00	37.97	11.62	34.68	27.78	42.69	74.00	31.31	Peak
5	14124.00	41.57	10.91	33.22	25.93	45.19	74.00	28.81	Peak
6	17847.00	44.95	11.20	30.52	20.89	46.52	74.00	27.48	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. : 1# 966 Chamber Data no. : 120
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2440MHz
 Antenna 1

	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	2440.00	27.60	6.67	34.85	101.54	100.96	74.00	-26.96	Peak
2	4880.00	31.37	12.07	35.76	38.34	46.02	74.00	27.98	Peak
3	7320.00	36.55	11.57	34.14	30.65	44.63	74.00	29.37	Peak
4	11030.00	39.50	11.27	33.98	26.43	43.22	74.00	30.78	Peak
5	13444.00	39.95	11.49	32.74	24.71	43.41	74.00	30.59	Peak
6	17575.00	42.29	10.88	32.28	23.94	44.83	74.00	29.17	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. : 1# 966 Chamber Data no. : 121
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.00	27.58	6.71	35.11	99.56	98.74	74.00	-24.74	Peak
2	4960.00	31.49	12.44	36.01	39.91	47.83	74.00	26.17	Peak
3	7440.00	36.54	11.61	34.22	31.95	45.88	74.00	28.12	Peak
4	10860.00	39.37	11.30	34.03	27.38	44.02	74.00	29.98	Peak
5	14974.00	40.30	10.86	33.58	26.28	43.86	74.00	30.14	Peak
6	16844.00	39.29	10.84	32.55	27.62	45.20	74.00	28.80	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. : 1# 966 Chamber Data no. : 122
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.00	27.58	6.71	35.11	95.91	95.09	74.00	-21.09	Peak
2	4960.00	31.49	12.44	36.01	40.08	48.00	74.00	26.00	Peak
3	7440.00	36.54	11.61	34.22	30.18	44.11	74.00	29.89	Peak
4	9126.00	37.62	11.52	34.09	30.13	45.18	74.00	28.82	Peak
5	11115.00	39.44	11.20	33.55	26.54	43.63	74.00	30.37	Peak
6	17796.00	44.45	11.14	30.45	19.20	44.34	74.00	29.66	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. : 343
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2402.00	27.61	6.62	34.64	99.35	98.94	74.00	-24.94	Peak
2	4804.00	31.25	11.77	35.64	41.17	48.55	74.00	25.45	Peak
3	7206.00	36.52	11.54	33.95	32.32	46.43	74.00	27.57	Peak
4	11234.00	39.37	11.12	33.25	27.81	45.05	74.00	28.95	Peak
5	13580.00	40.31	11.40	32.64	28.16	47.23	74.00	26.77	Peak
6	17864.00	45.12	11.22	30.66	24.62	50.30	74.00	23.70	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. : 1# 966 Chamber Data no. : 344
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2402.00	27.61	6.62	34.64	97.62	97.21	74.00	-23.21	Peak
2	4804.00	31.25	11.77	35.64	40.54	47.92	74.00	26.08	Peak
3	7206.00	36.52	11.54	33.95	31.96	46.07	74.00	27.93	Peak
4	10996.00	39.52	11.29	34.11	28.17	44.87	74.00	29.13	Peak
5	14464.00	41.85	10.93	33.45	24.95	44.28	74.00	29.72	Peak
6	17864.00	45.12	11.22	30.66	19.29	44.97	74.00	29.03	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. : 1# 966 Chamber Data no. : 345
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2440MHz
 Antenna 2

	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	2440.00	27.60	6.67	34.85	99.65	99.07	74.00	-25.07	Peak
2	4880.00	31.37	12.07	35.76	39.36	47.04	74.00	26.96	Peak
3	7320.00	36.55	11.57	34.14	30.80	44.78	74.00	29.22	Peak
4	11013.00	39.51	11.28	34.05	24.48	41.22	74.00	32.78	Peak
5	14430.00	41.82	10.93	33.41	23.73	43.07	74.00	30.93	Peak
6	17898.00	45.45	11.26	30.94	18.29	44.06	74.00	29.94	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. : 346
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2440MHz
 Antenna 2

	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	2440.00	27.60	6.67	34.85	99.50	98.92	74.00	-24.92	Peak
2	4880.00	31.37	12.07	35.76	39.61	47.29	74.00	26.71	Peak
3	7320.00	36.55	11.57	34.14	33.10	47.08	74.00	26.92	Peak
4	10214.00	38.48	11.47	34.50	28.06	43.51	74.00	30.49	Peak
5	14056.00	41.51	10.90	33.06	25.18	44.53	74.00	29.47	Peak
6	16436.00	38.11	10.54	33.27	29.73	45.11	74.00	28.89	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. : 347
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2480.00	27.58	6.71	35.11	96.29	95.47	74.00	-21.47	Peak
2	4960.00	31.49	12.44	36.01	42.73	50.65	74.00	23.35	Peak
3	7440.00	36.54	11.61	34.22	32.71	46.64	74.00	27.36	Peak
4	10316.00	38.65	11.41	34.51	30.77	46.32	74.00	27.68	Peak
5	14056.00	41.51	10.90	33.06	28.13	47.48	74.00	26.52	Peak
6	17405.00	41.23	10.84	31.14	27.96	48.89	74.00	25.11	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. : 1# 966 Chamber Data no. : 348
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2480.00	27.58	6.71	35.11	97.96	97.14	74.00	-23.14	Peak
2	4960.00	31.49	12.44	36.01	38.52	46.44	74.00	27.56	Peak
3	7440.00	36.54	11.61	34.22	29.20	43.13	74.00	30.87	Peak
4	11030.00	39.50	11.27	33.98	25.98	42.77	74.00	31.23	Peak
5	15076.00	39.86	10.89	33.71	28.05	45.09	74.00	28.91	Peak
6	17864.00	45.12	11.22	30.66	21.28	46.96	74.00	27.04	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. : 1# 966 Chamber Data no. : 305
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2402.00	27.61	6.62	34.64	90.20	89.79	74.00	-15.79	Peak
2	4804.00	31.25	11.77	35.64	38.82	46.20	74.00	27.80	Peak
3	7206.00	36.52	11.54	33.95	31.47	45.88	74.00	28.42	Peak
4	10826.00	39.33	11.30	34.00	28.56	45.19	74.00	28.81	Peak
5	16334.00	37.86	10.57	33.24	30.79	45.98	74.00	28.02	Peak
6	17864.00	45.12	11.22	30.66	22.52	48.20	74.00	25.80	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. : 1# 966 Chamber Data no. : 306
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2402.00	27.61	6.62	34.64	91.88	91.47	74.00	-17.47	Peak
2	4804.00	31.25	11.77	35.64	39.66	47.04	74.00	26.96	Peak
3	7206.00	36.52	11.54	33.95	30.71	44.82	74.00	29.18	Peak
4	8667.00	37.30	11.45	33.67	29.40	44.48	74.00	29.52	Peak
5	15943.00	37.16	10.71	33.01	30.02	44.88	74.00	29.12	Peak
6	17915.00	45.62	11.28	31.26	21.19	46.83	74.00	27.17	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. : 1# 966 Chamber Data no. : 307
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2440MHz
 Antenna 2

	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	2440.00	27.60	6.67	34.85	92.26	91.68	74.00	-17.68	Peak
2	4880.00	31.37	12.07	35.76	37.78	45.46	74.00	28.54	Peak
3	7320.00	36.55	11.57	34.14	30.10	44.08	74.00	29.92	Peak
4	10435.00	38.86	11.35	34.52	27.62	43.31	74.00	30.69	Peak
5	13954.00	41.35	10.96	32.99	25.39	44.71	74.00	29.29	Peak
6	17983.00	46.28	11.36	31.94	20.96	46.66	74.00	27.34	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.

Site no. : 1# 966 Chamber Data no. : 308
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2440MHz
 Antenna 2

	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	2440.00	27.60	6.67	34.85	93.20	92.62	74.00	-18.62	Peak
2	4880.00	31.37	12.07	35.76	36.97	44.65	74.00	29.35	Peak
3	7320.00	36.55	11.57	34.14	29.66	43.64	74.00	30.36	Peak
4	8684.00	37.32	11.45	33.66	28.39	43.50	74.00	30.50	Peak
5	14804.00	40.89	10.89	33.78	25.15	43.15	74.00	30.85	Peak
6	17898.00	45.45	11.26	30.94	20.43	46.20	74.00	27.80	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. : 1# 966 Chamber Data no. : 309
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2480.00	27.58	6.71	35.11	95.14	94.32	74.00	-20.32	Peak
2	4960.00	31.49	12.44	36.01	41.03	48.95	74.00	25.05	Peak
3	7440.00	36.54	11.61	34.22	34.23	48.16	74.00	25.84	Peak
4	11336.00	39.30	11.04	33.44	27.89	44.79	74.00	29.21	Peak
5	15280.00	38.90	10.99	33.54	30.05	46.40	74.00	27.60	Peak
6	18000.00	46.45	11.38	32.12	23.52	49.23	74.00	24.77	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. : 1# 966 Chamber Data no. : 310
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2480.00	27.58	6.71	35.11	92.93	92.11	74.00	-18.11	Peak
2	4960.00	31.49	12.44	36.01	36.73	44.65	74.00	29.35	Peak
3	7440.00	36.54	11.61	34.22	31.84	45.77	74.00	28.23	Peak
4	11234.00	39.37	11.12	33.25	28.08	45.32	74.00	28.68	Peak
5	14124.00	41.57	10.91	33.22	26.50	45.76	74.00	28.24	Peak
6	17966.00	46.12	11.34	31.76	20.14	45.84	74.00	28.16	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.

18000MHz – 25000MHz

Pass

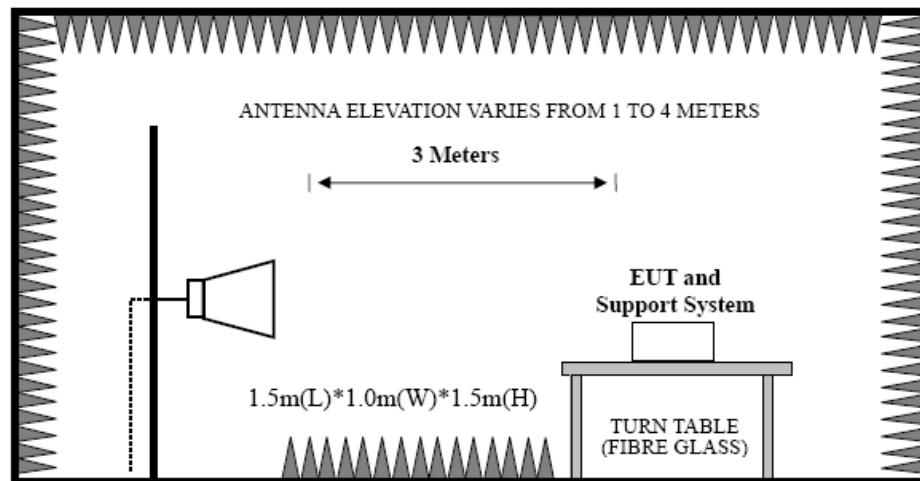
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

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

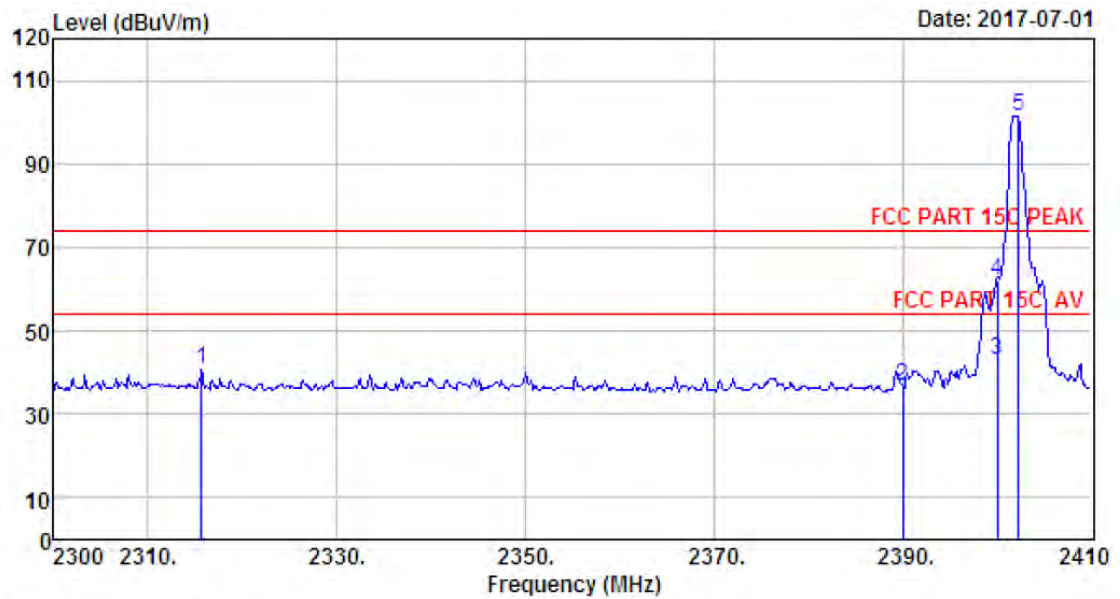
AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

5.4 Test Result

Pass (The testing data was attached in the next pages.)

- Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、 The frequency 2402MHz and 2480 MHz 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.

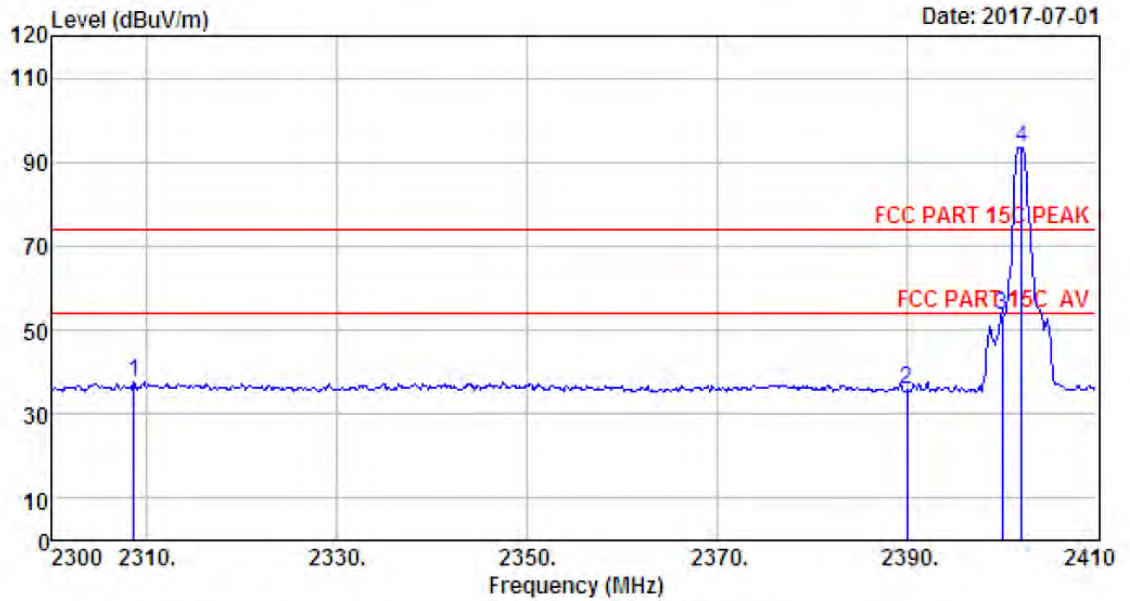
5.5 Test Data



Site no. : 1# 966 Chamber Data no. : 43
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK IX 2402MHz
 Antenna 1

	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	2315.62	27.76	6.53	34.60	41.13	40.82	74.00	33.18	Peak
2	2390.00	27.64	6.62	34.62	37.05	36.69	74.00	37.31	Peak
3	2400.00	27.61	6.62	34.64	43.58	43.17	54.00	10.83	Average
4	2400.00	27.61	6.62	34.64	62.46	62.05	74.00	11.95	Peak
5	2402.30	27.61	6.62	34.64	101.85	101.44	74.00	-27.44	Peak

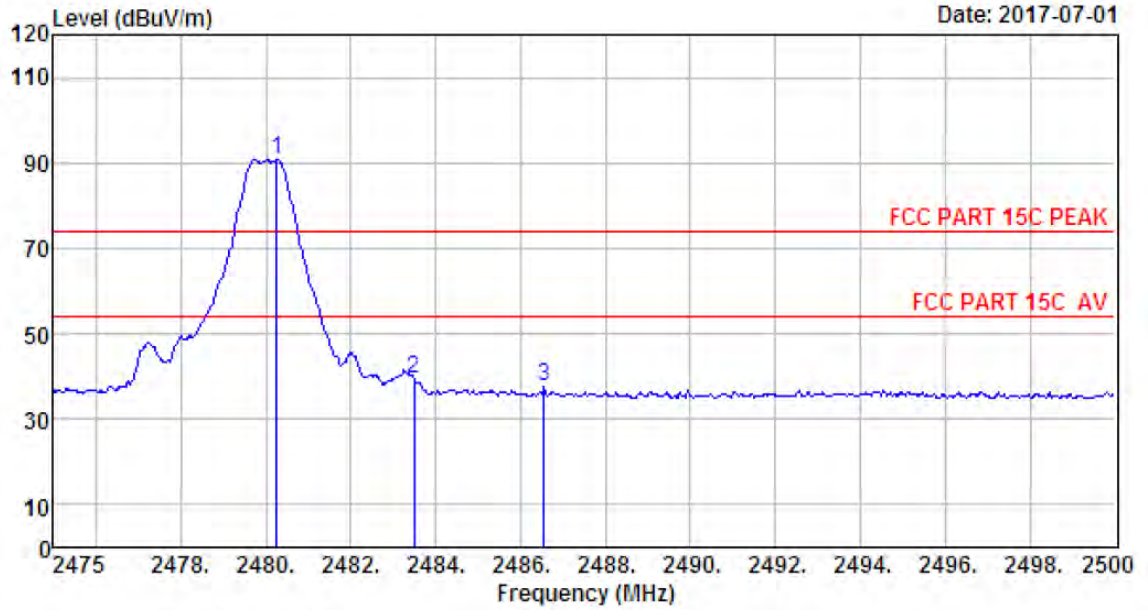
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 44
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2308.58	27.76	6.53	34.62	37.99	37.66	74.00	36.34	Peak
2	2390.00	27.64	6.62	34.62	36.17	35.81	74.00	38.19	Peak
3	2400.00	27.61	6.62	34.64	53.99	53.58	74.00	20.42	Peak
4	2402.08	27.61	6.62	34.64	94.04	93.63	74.00	-19.63	Peak

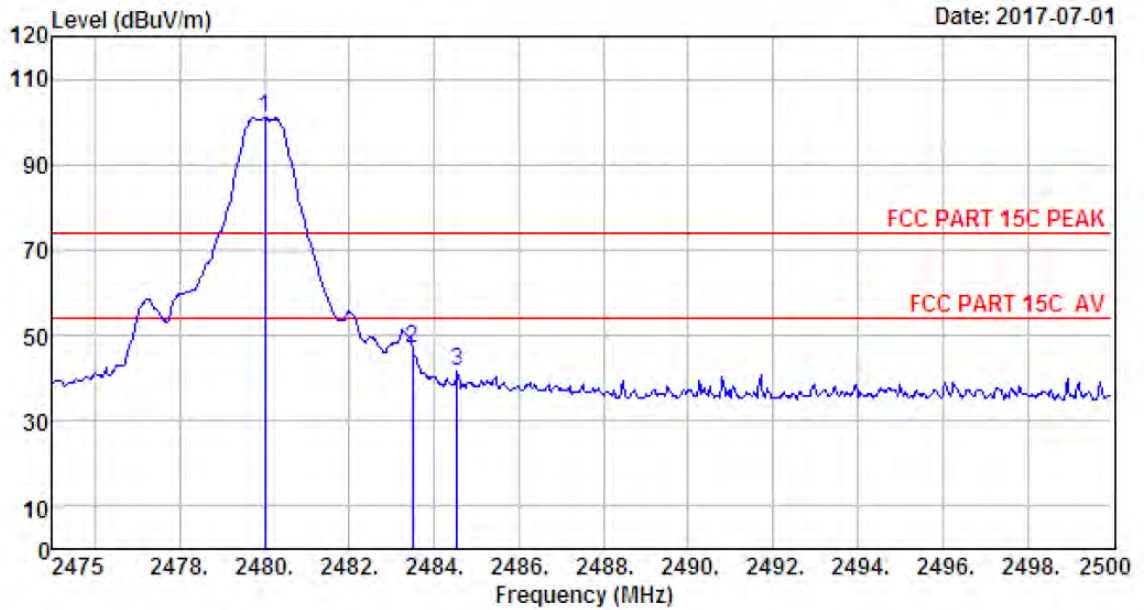
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 45
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.25	27.58	6.71	35.11	91.62	90.80	74.00	-16.80	Peak
2	2483.50	27.58	6.71	35.11	40.44	39.62	74.00	34.38	Peak
3	2486.55	27.58	6.71	35.11	38.41	37.59	74.00	36.41	Peak

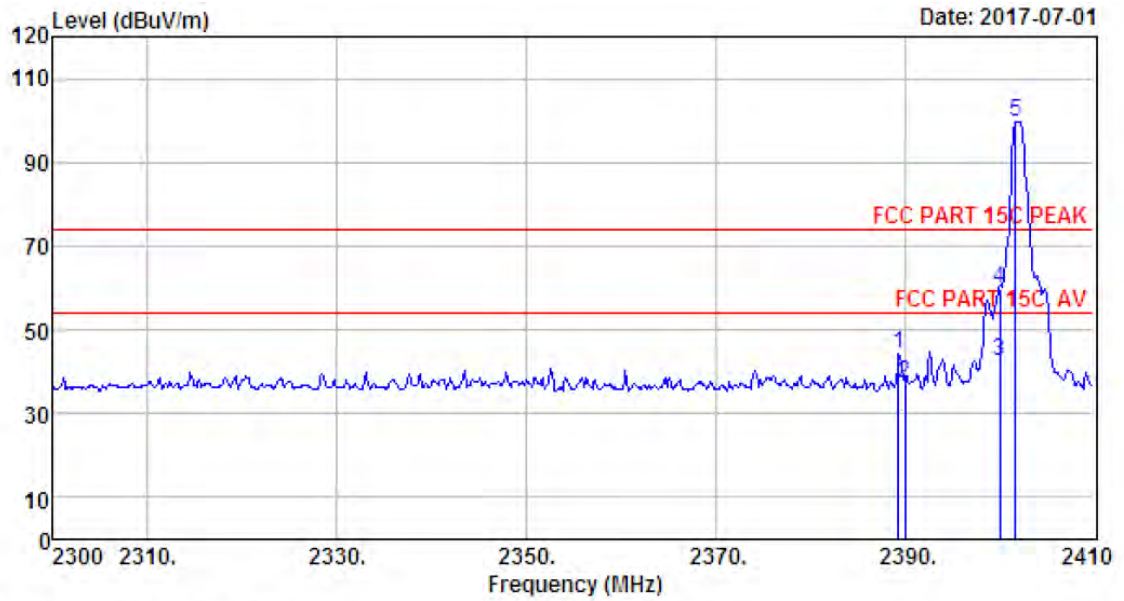
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 46
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2480.00	27.58	6.71	35.11	101.86	101.04	74.00	-27.04	Peak
2	2483.50	27.58	6.71	35.11	47.79	46.97	74.00	27.03	Peak
3	2484.55	27.58	6.71	35.11	42.48	41.66	74.00	32.34	Peak

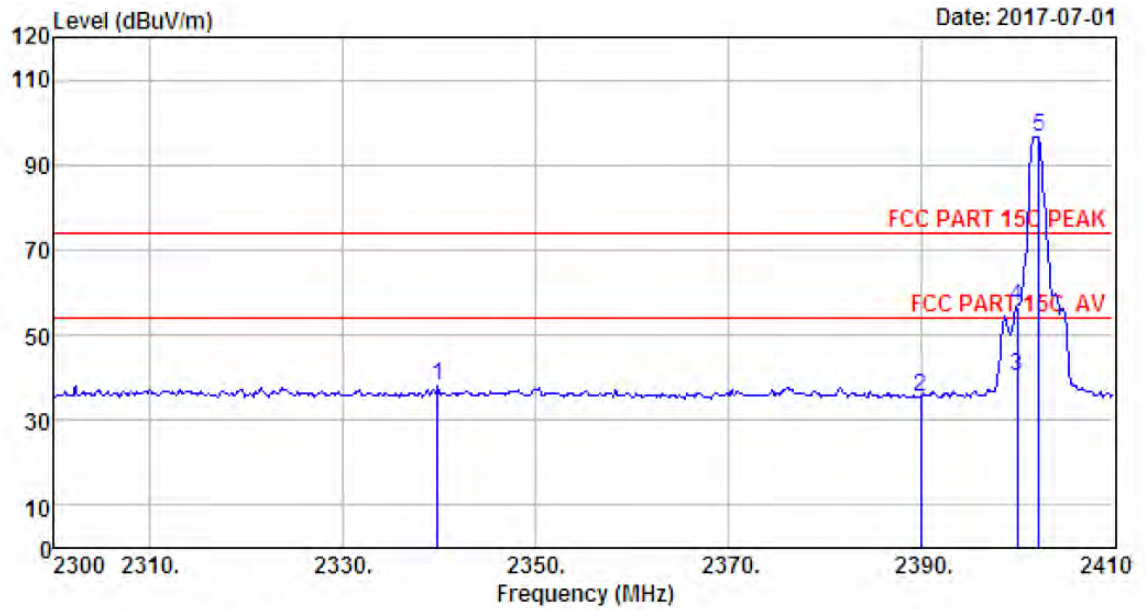
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 123
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 1

	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	2389.32	27.64	6.62	34.62	44.59	44.23	74.00	29.77	Peak
2	2390.00	27.64	6.62	34.62	37.56	37.20	74.00	36.80	Peak
3	2400.00	27.61	6.62	34.64	43.08	42.67	54.00	11.33	Average
4	2400.00	27.61	6.62	34.64	60.25	59.84	74.00	14.16	Peak
5	2401.75	27.61	6.62	34.64	100.24	99.83	74.00	-25.83	Peak

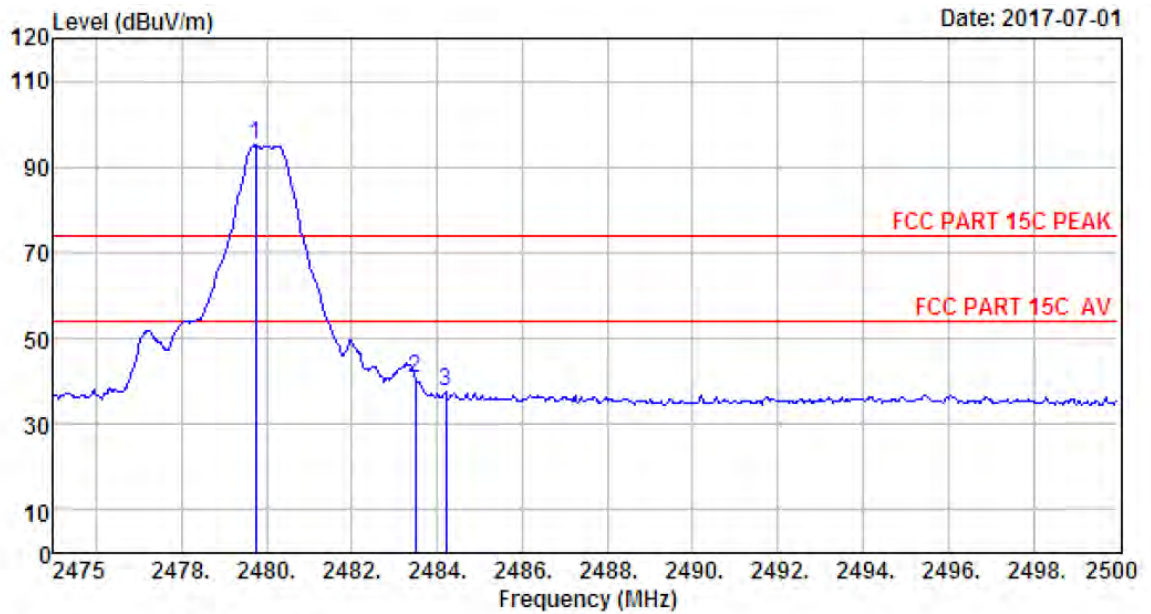
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading,
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 1# 966 Chamber Data no. : 124
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK IX 2402MHz
 Antenna 1

	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	2339.82	27.70	6.56	34.59	38.41	38.08	74.00	35.92	Peak
2	2390.00	27.64	6.62	34.62	35.86	35.50	74.00	38.50	Peak
3	2400.00	27.61	6.62	34.64	40.77	40.36	54.00	13.64	Average
4	2400.00	27.61	6.62	34.64	57.19	56.78	74.00	17.22	Peak
5	2402.30	27.61	6.62	34.64	97.10	96.69	74.00	-22.69	Peak

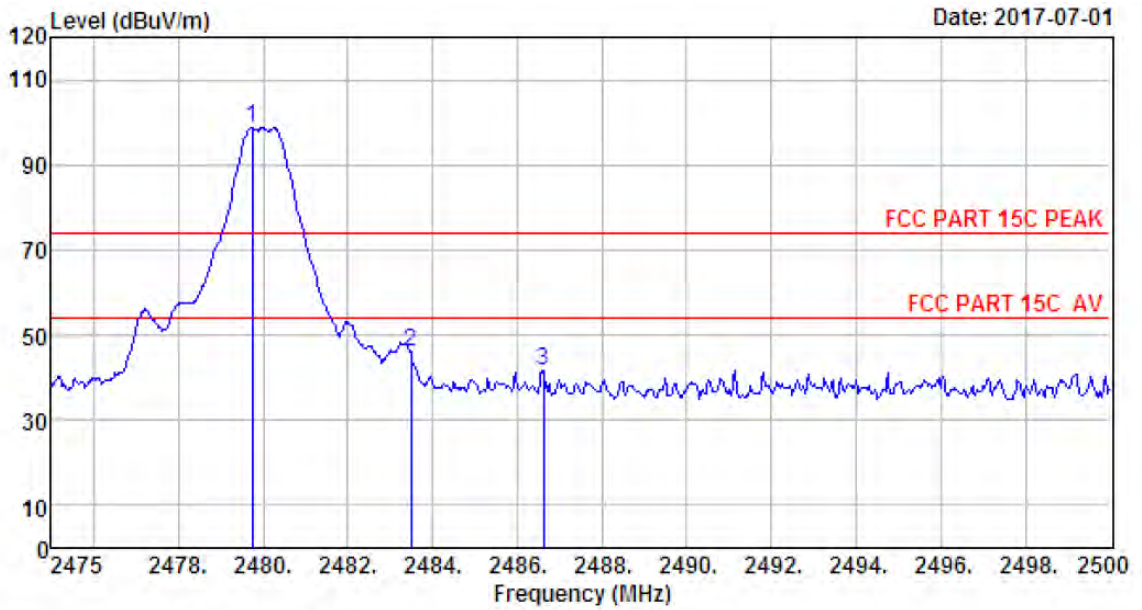
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 125
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2479.75	27.58	6.71	35.11	95.99	95.17	74.00	-21.17	Peak
2	2483.50	27.58	6.71	35.11	41.67	40.85	74.00	33.15	Peak
3	2484.20	27.58	6.71	35.11	38.57	37.75	74.00	36.25	Peak

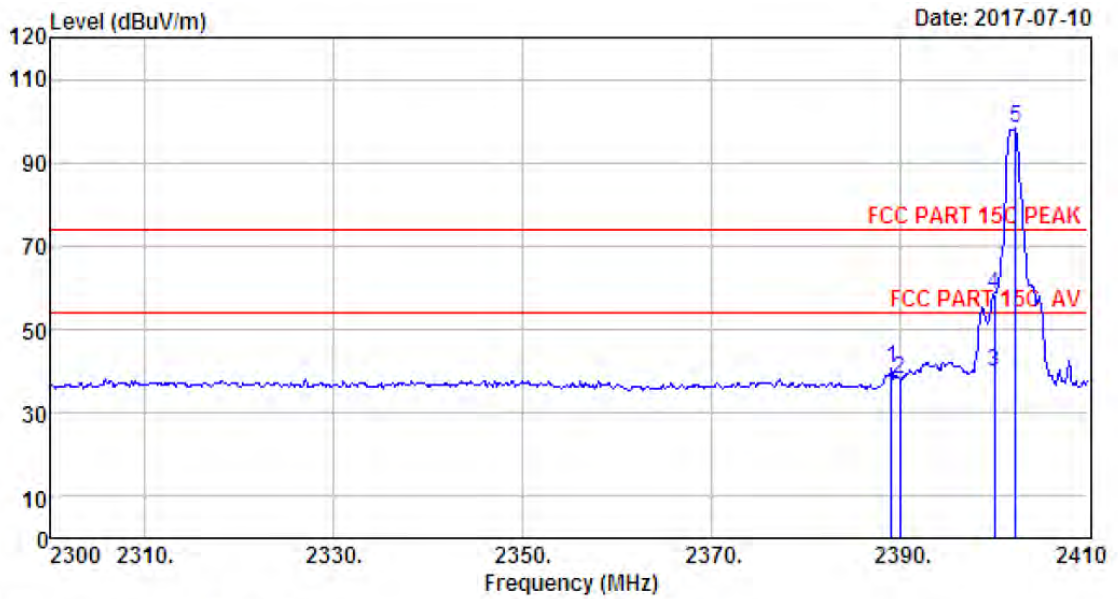
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 126
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 1

	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	2479.75	27.58	6.71	35.11	99.60	98.78	74.00	-24.78	Peak
2	2483.50	27.58	6.71	35.11	46.75	45.93	74.00	28.07	Peak
3	2486.63	27.58	6.71	35.11	42.66	41.84	74.00	32.16	Peak

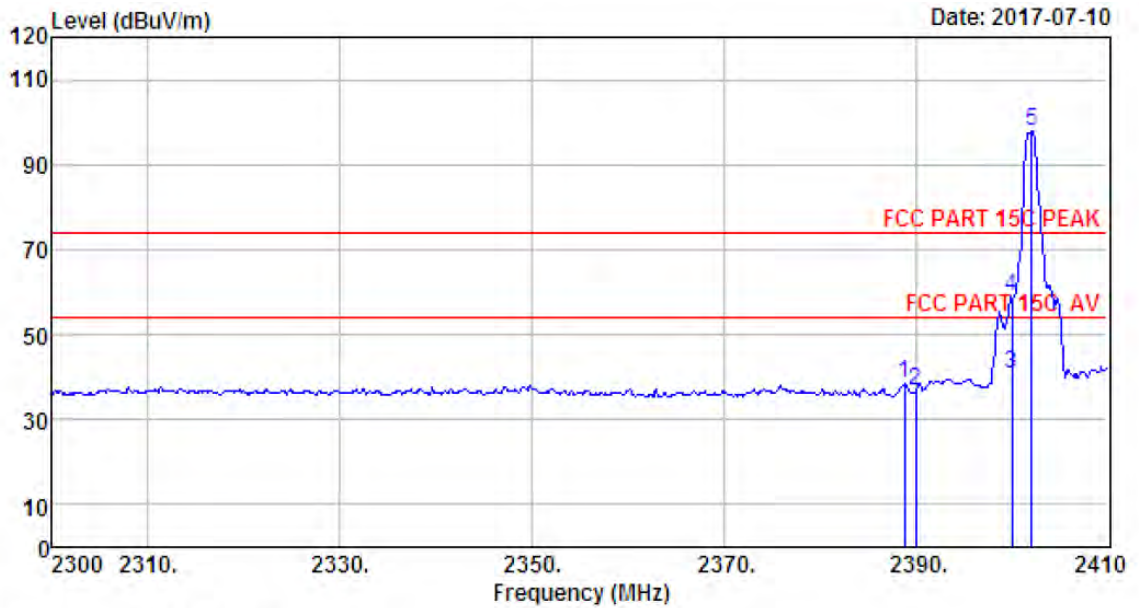
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 349
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2389.10	27.64	6.62	34.62	41.07	40.71	74.00	33.29	Peak
2	2390.00	27.64	6.62	34.62	38.38	38.02	74.00	35.98	Peak
3	2400.00	27.61	6.62	34.64	40.37	39.96	54.00	14.04	Average
4	2400.00	27.61	6.62	34.64	58.86	58.45	74.00	15.55	Peak
5	2402.30	27.61	6.62	34.64	98.62	98.21	74.00	-24.21	Peak

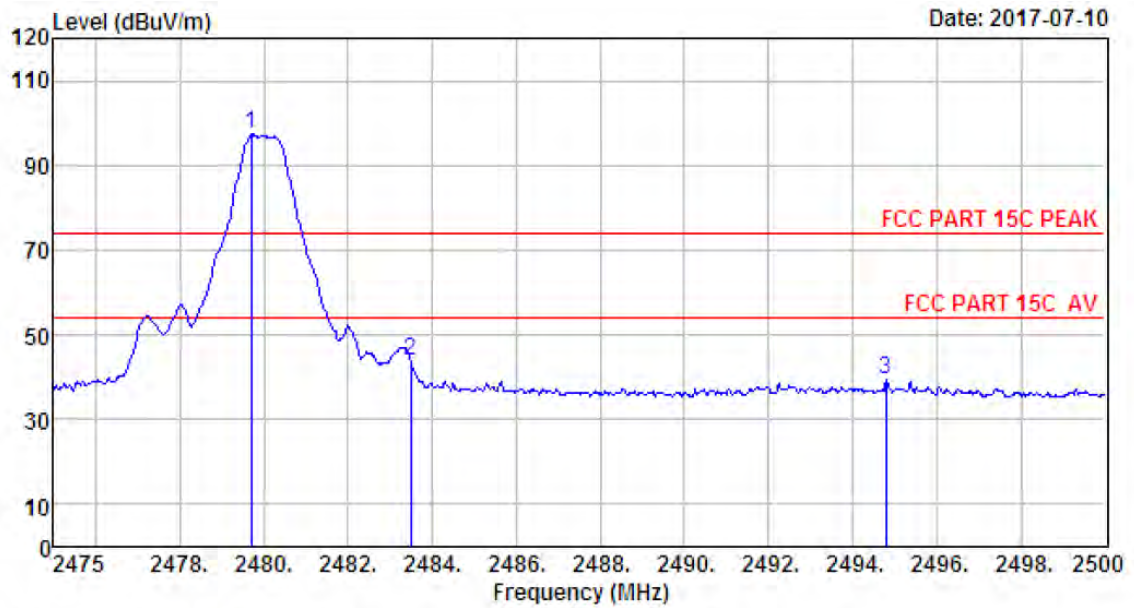
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 350
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2388.88	27.64	6.62	34.62	38.72	38.36	74.00	35.64	Peak
2	2390.00	27.64	6.62	34.62	37.06	36.70	74.00	37.30	Peak
3	2400.00	27.61	6.62	34.64	41.11	40.70	54.00	13.30	Average
4	2400.00	27.61	6.62	34.64	59.18	58.77	74.00	15.23	Peak
5	2402.08	27.61	6.62	34.64	98.16	97.75	74.00	-23.75	Peak

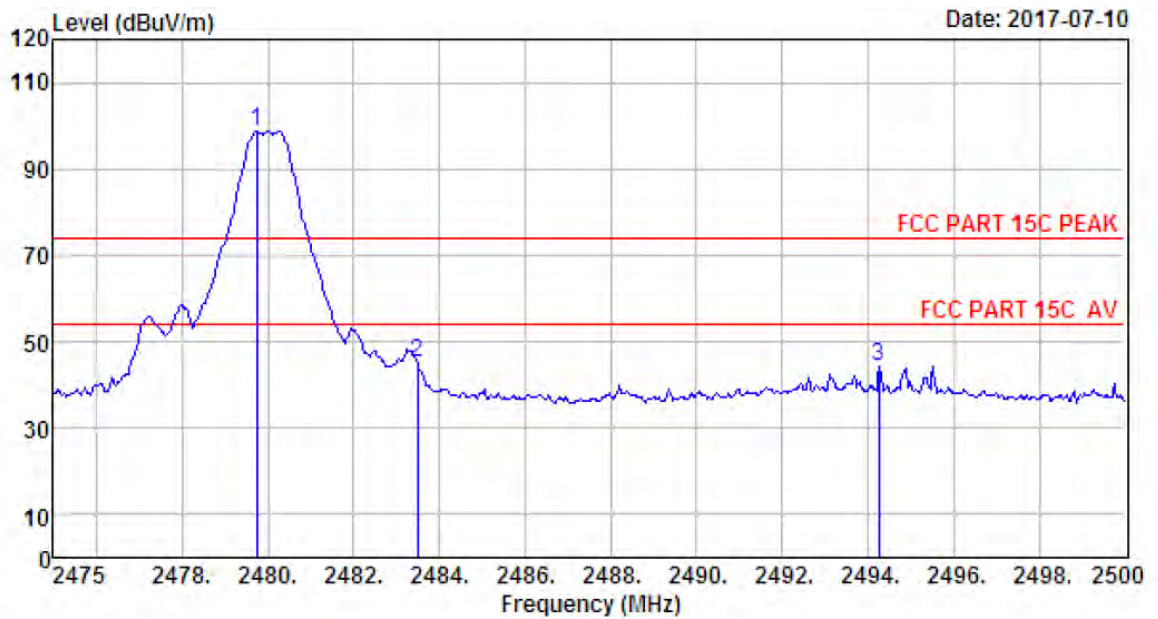
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 351
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2479.70	27.58	6.71	35.11	98.18	97.36	74.00	-23.36	Peak
2	2483.50	27.58	6.71	35.11	44.84	44.02	74.00	29.98	Peak
3	2494.80	27.57	6.73	35.24	40.14	39.20	74.00	34.80	Peak

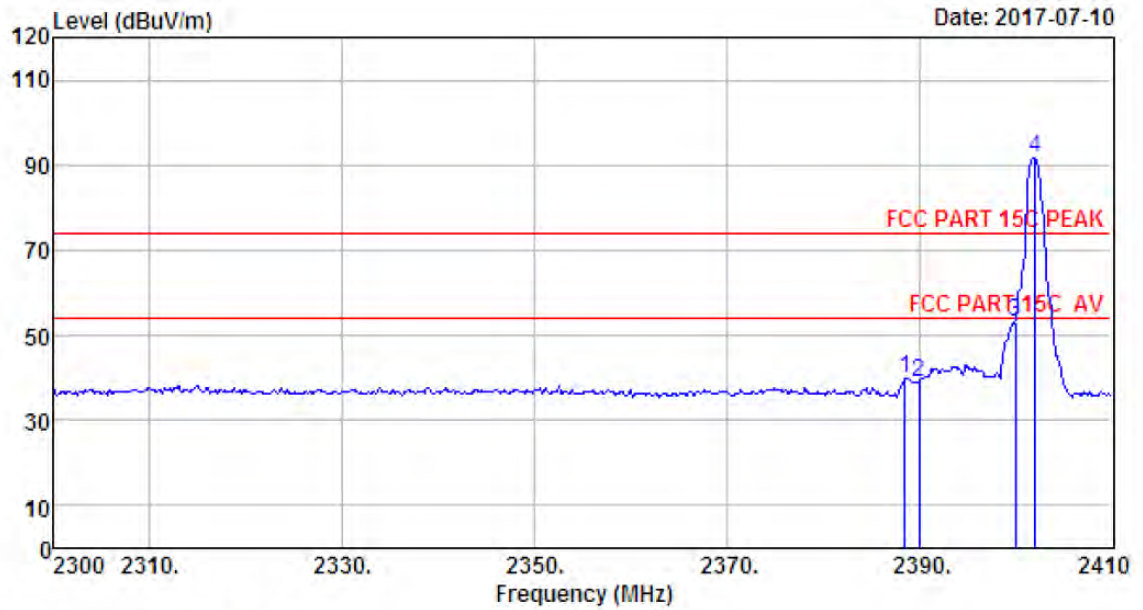
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 352
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : RSB-3
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2479.75	27.58	6.71	35.11	99.74	98.92	74.00	-24.92	Peak
2	2483.50	27.58	6.71	35.11	45.99	45.17	74.00	28.83	Peak
3	2494.25	27.57	6.73	35.24	45.22	44.28	74.00	29.72	Peak

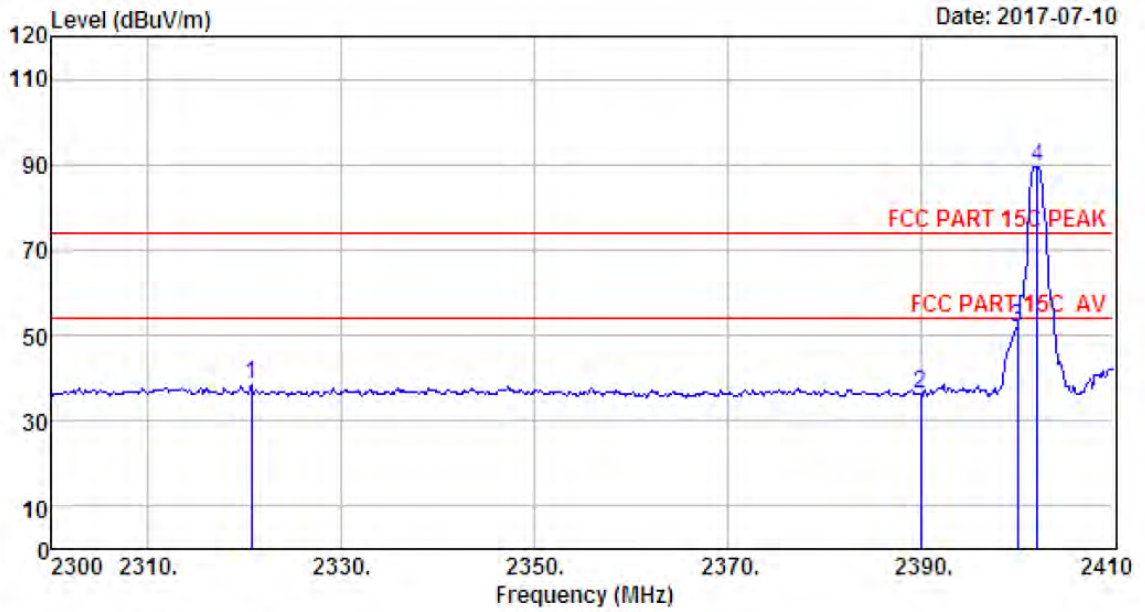
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 311
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2388.55	27.64	6.62	34.62	40.29	39.93	74.00	34.07	Peak
2	2390.00	27.64	6.62	34.62	39.49	39.13	74.00	34.87	Peak
3	2400.00	27.61	6.62	34.64	53.65	53.24	74.00	20.76	Peak
4	2402.08	27.61	6.62	34.64	92.13	91.72	74.00	-17.72	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.

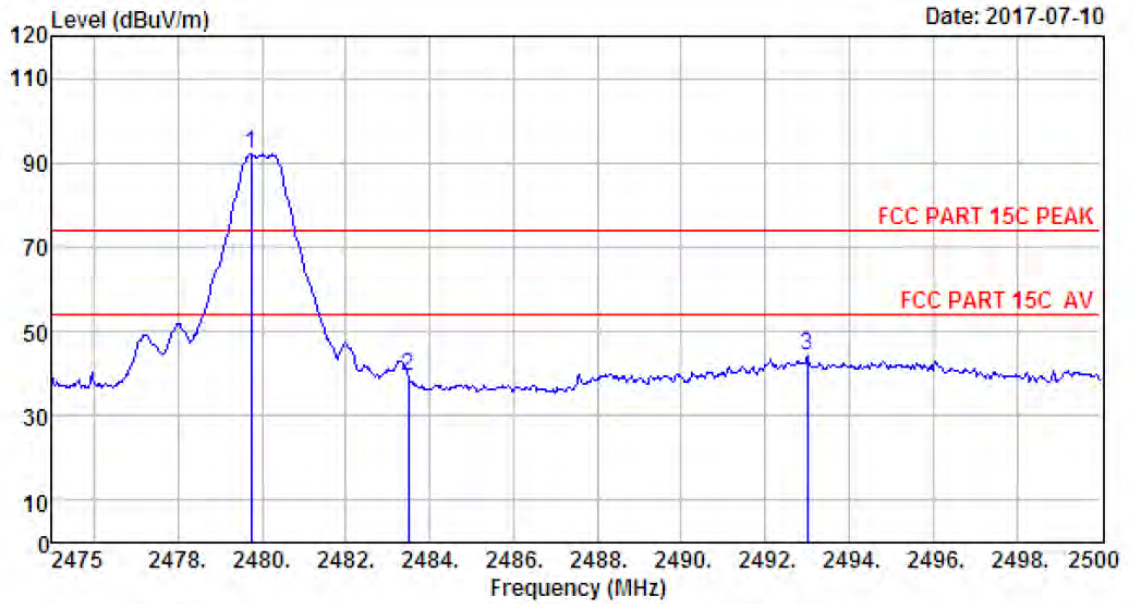


Date: 2017-07-10

Site no. : 1# 966 Chamber Data no. : 312
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUI : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2402MHz
 Antenna 2

	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	2320.68	27.76	6.54	34.60	38.66	38.36	74.00	35.64	Peak
2	2390.00	27.64	6.62	34.62	36.59	36.23	74.00	37.77	Peak
3	2400.00	27.61	6.62	34.64	52.03	51.62	74.00	22.38	Peak
4	2402.08	27.61	6.62	34.64	89.84	89.43	74.00	-15.43	Peak

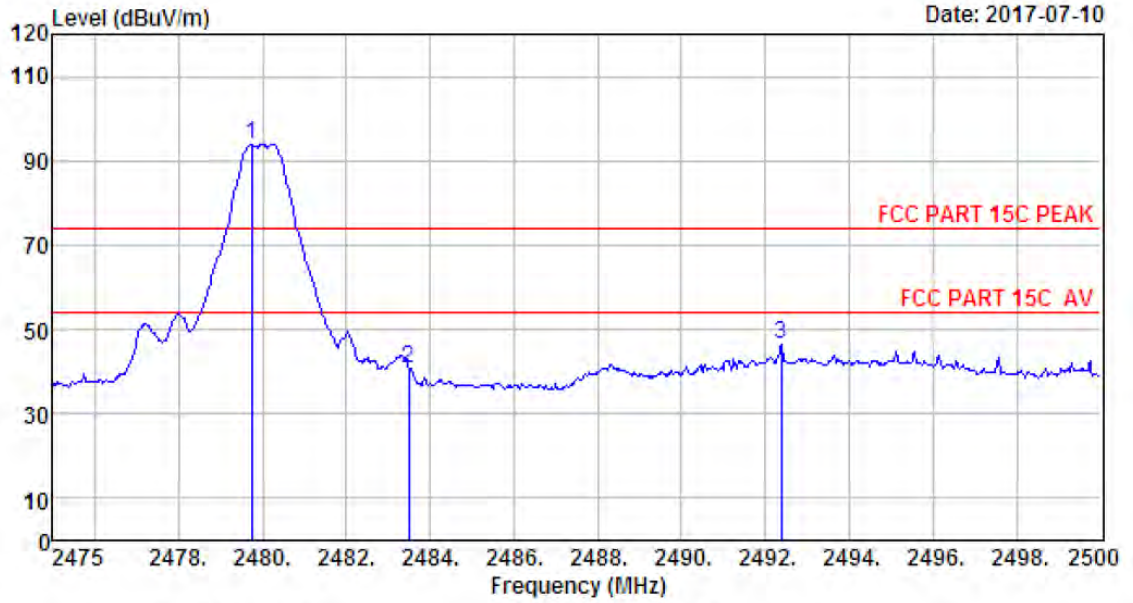
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 313
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2479.75	27.58	6.71	35.11	92.89	92.07	74.00	-18.07	Peak
2	2483.50	27.58	6.71	35.11	40.37	39.55	74.00	34.45	Peak
3	2493.00	27.58	6.73	35.24	45.31	44.38	74.00	29.62	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. : 1# 966 Chamber Data no. : 314
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER
 Power : DC 18V From Adapter Input AC 120V/60Hz
 M/N : STUDIO SB 36
 Test Mode : GFSK TX 2480MHz
 Antenna 2

	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	2479.75	27.58	6.71	35.11	94.84	94.02	74.00	-20.02	Peak
2	2483.50	27.58	6.71	35.11	41.57	40.75	74.00	33.25	Peak
3	2492.38	27.58	6.73	35.24	47.40	46.47	74.00	27.53	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.

6 6dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set resolution bandwidth (RBW) = 100 kHz.
 - (2). Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - (3). Detector = Peak.
 - (4). Trace mode = max hold.
 - (5). Sweep = auto couple.
 - (6). Allow the trace to stabilize.
 - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

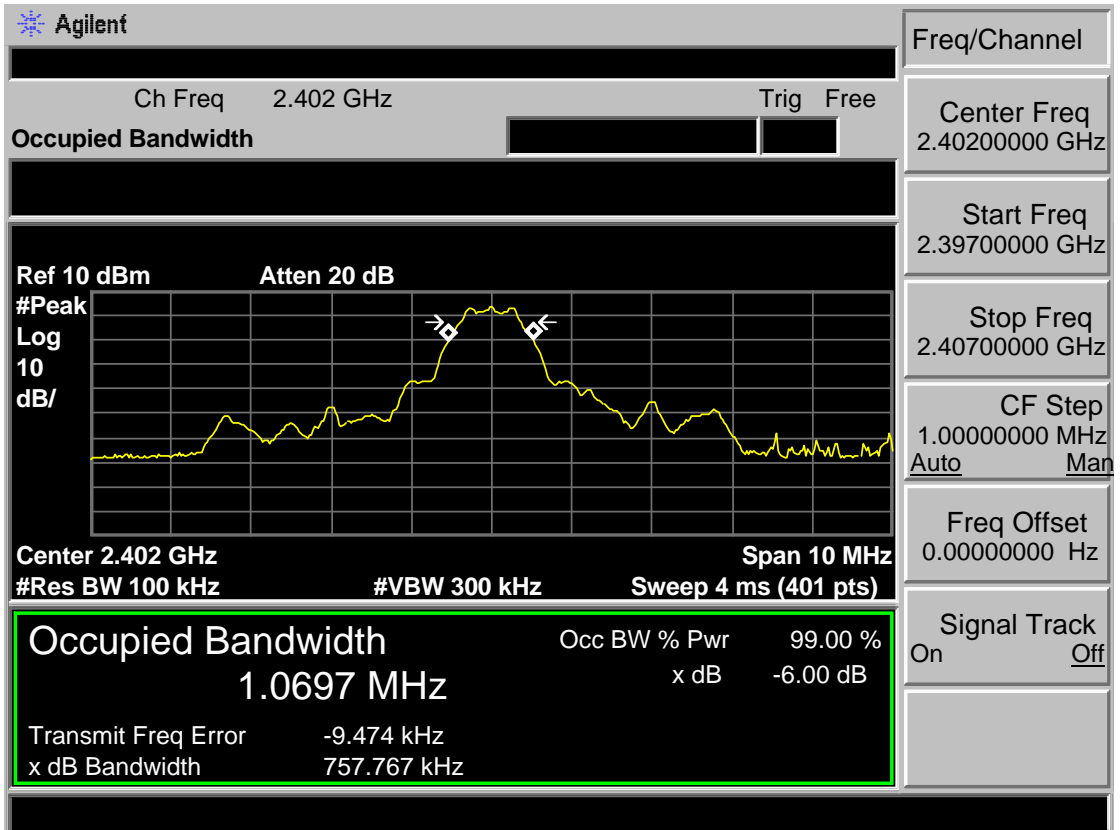
6.3 Test Result

EUT: 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER				
M/N: RSB-3				
Test date: 2017-06-25		Tested by: Tony.Tang		Test site: RF Site
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Ant 1	Ant 2	
BT 4.0-BLE GFSK	CH1	0.758	0.752	>500
	CH20	0.760	0.758	>500
	CH40	0.768	0.761	>500
Conclusion : PASS				

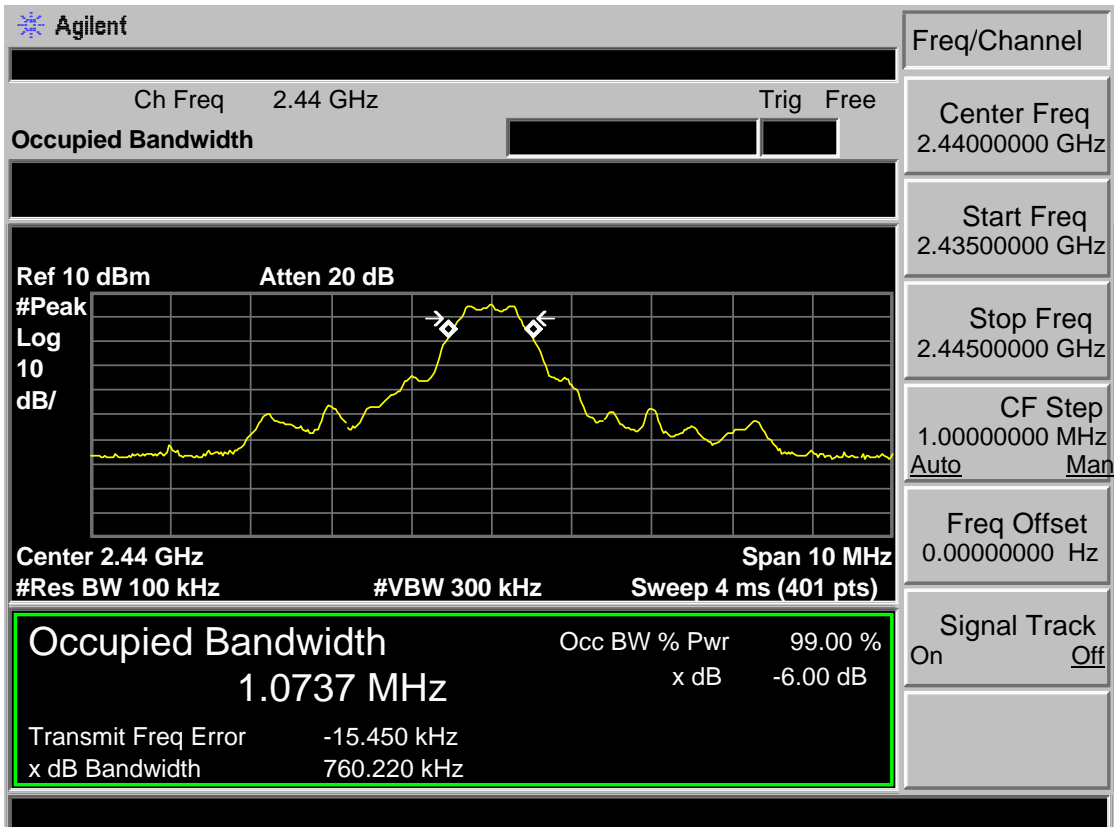
6.4 Test Data

Ant 1

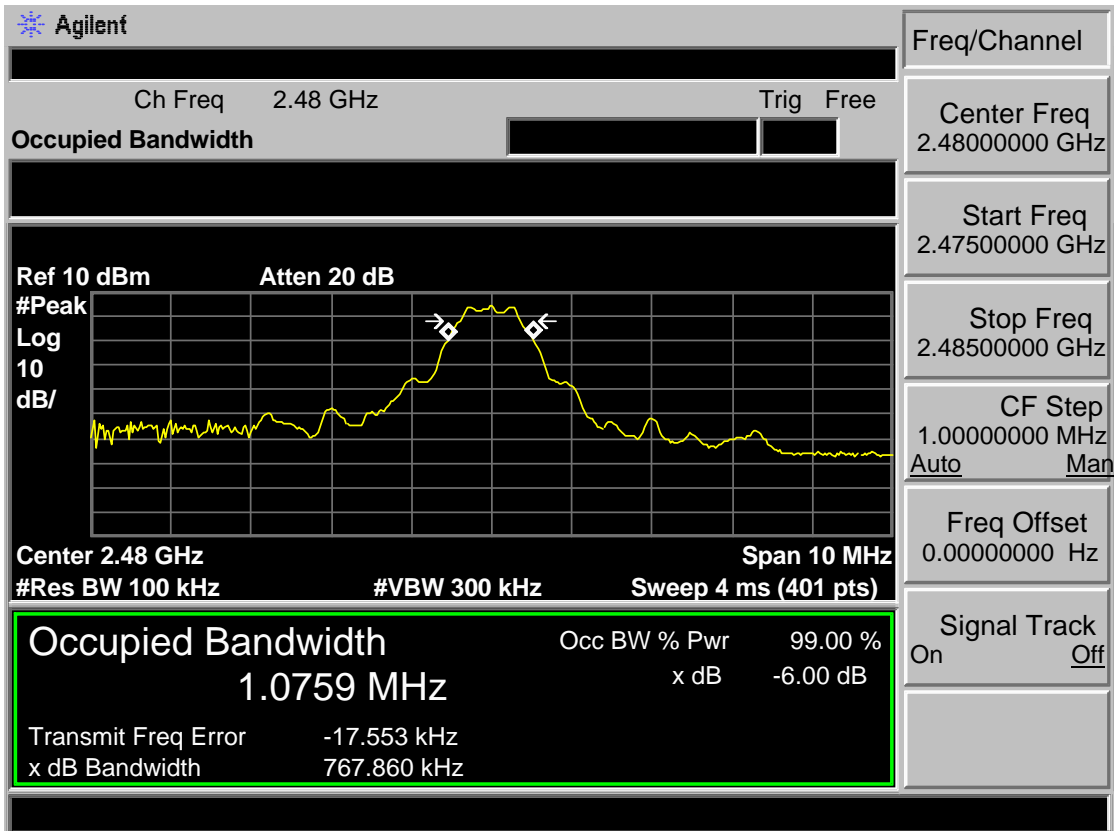
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz

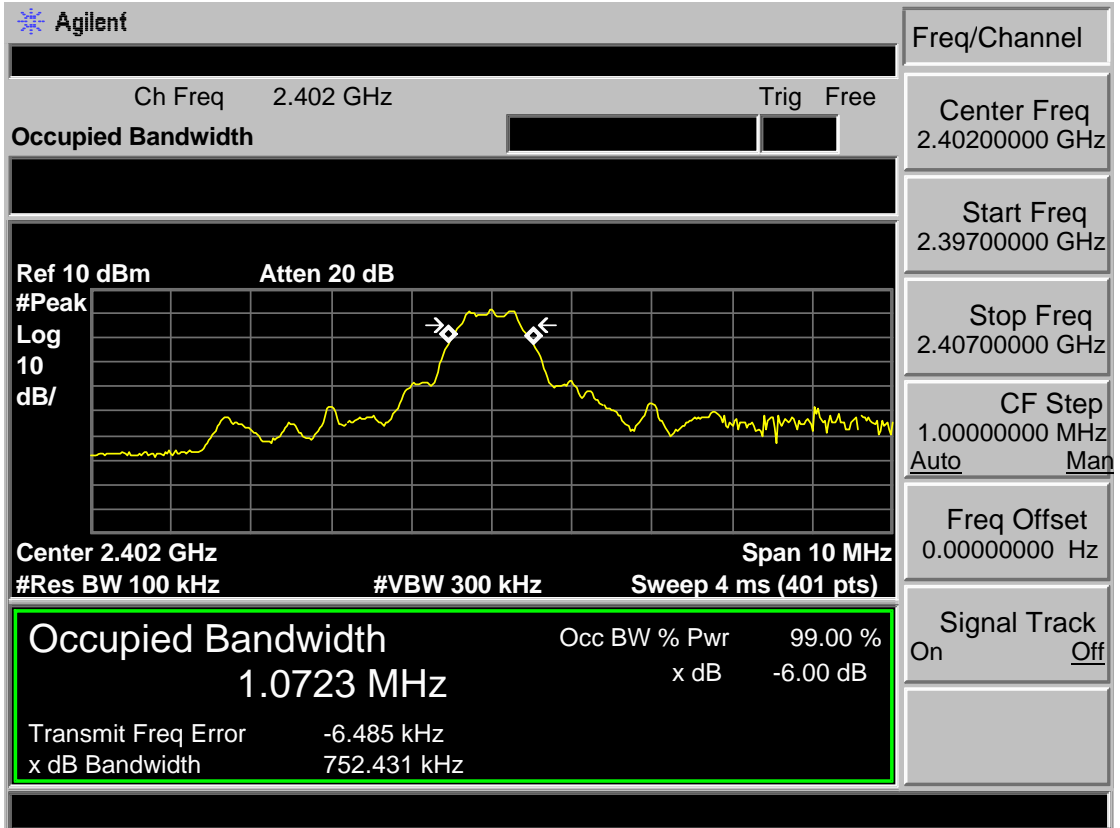


Test Mode: BT 4.0-BLE GFSK 2480MHz

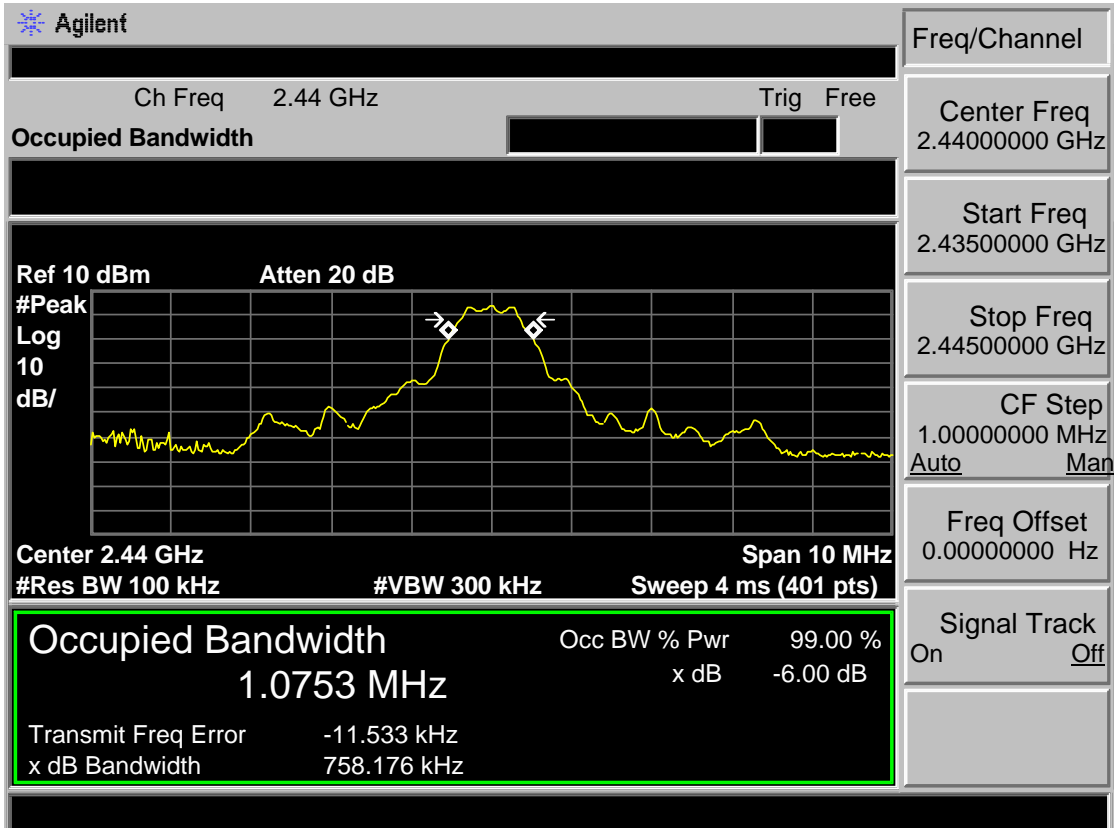


Ant 2

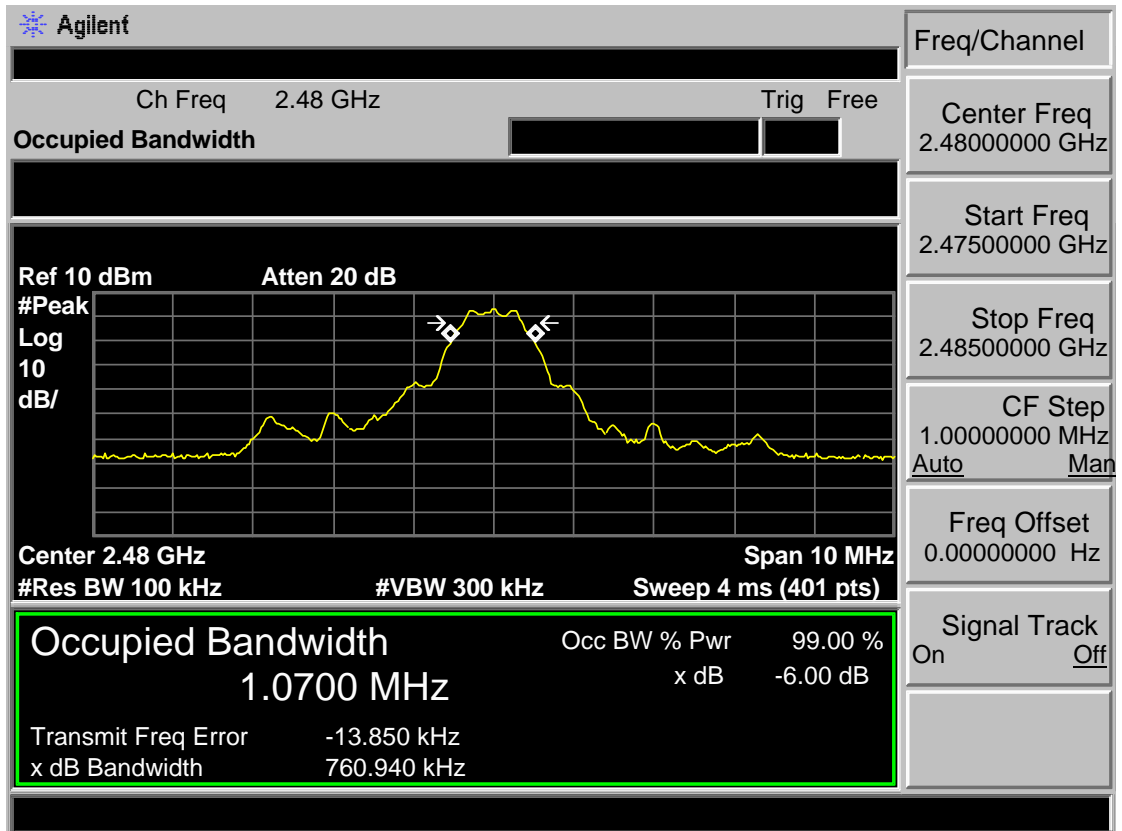
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set the RBW \geq DTS bandwidth.
 - (2). Set VBW \geq 3 x RBW.
 - (3). Set span \geq 3 x RBW.
 - (4). Sweep time = auto couple.
 - (5). Detector = peak.
 - (6). Trace mode = max hold.
 - (7). Allow trace to fully stabilize.
 - (8). Use peak marker function to determine the peak amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

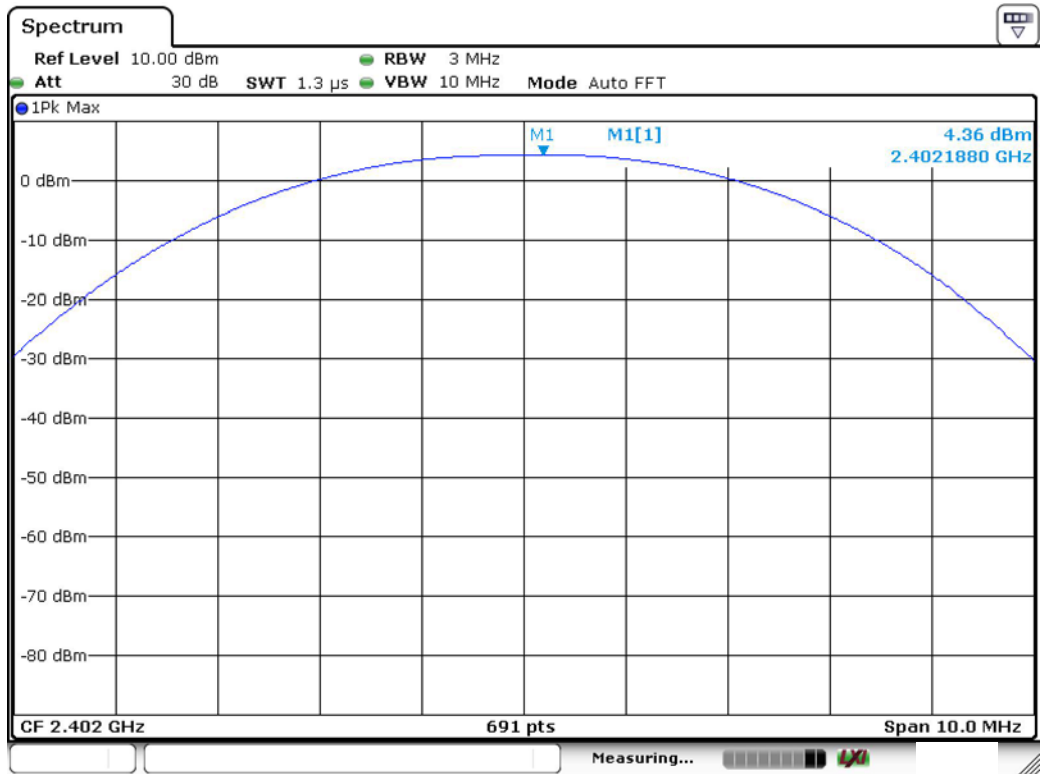
7.3 Test Result

EUT:2.0 SOUND BAR WITH INTEGRATED SUBWOOFER				
M/N:RSB-3				
Test date: 2017-07-03~2017-07-07		Test site: 3m Chamber		Tested by: Tony Tang
Pass				
Test Mode	CH	Peak output Power (dBm)		Limit (dBm)
		Ant 1	Ant 2	
BT 4.0-BLE GFSK	CH1	4.36	2.26	30
	CH20	5.68	4.48	30
	CH40	3.89	2.61	30
Conclusion : PASS				

7.4 Test Data

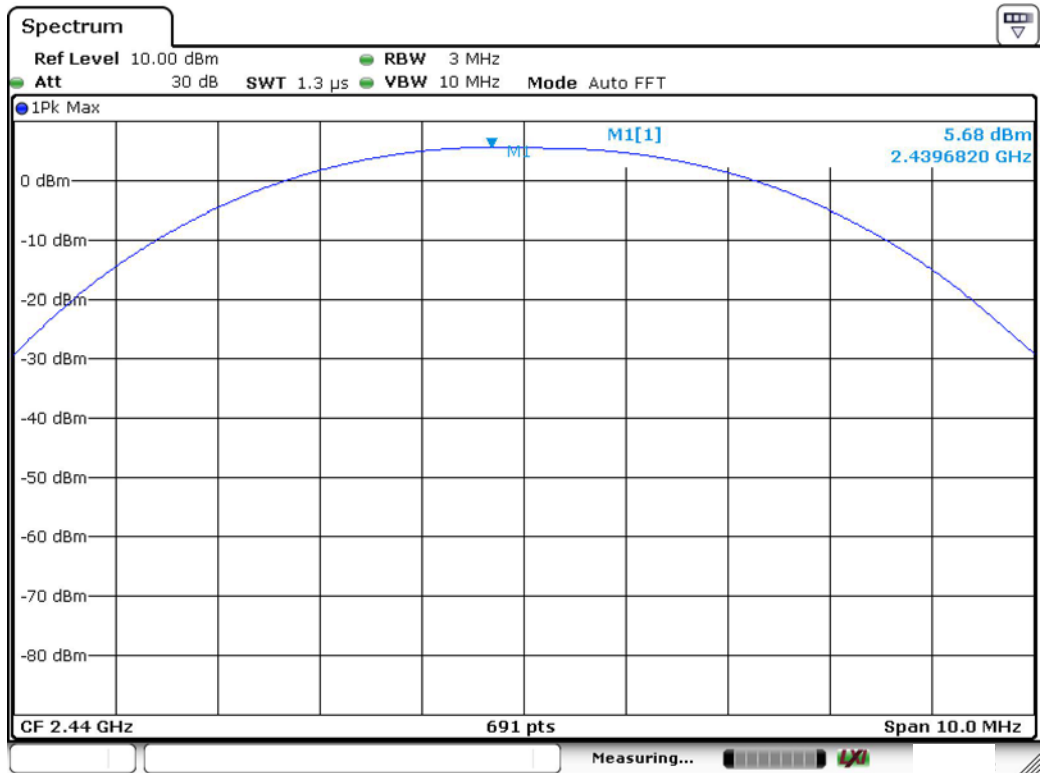
Ant 1

Test Mode: BT 4.0-BLE GFSK 2402MHz



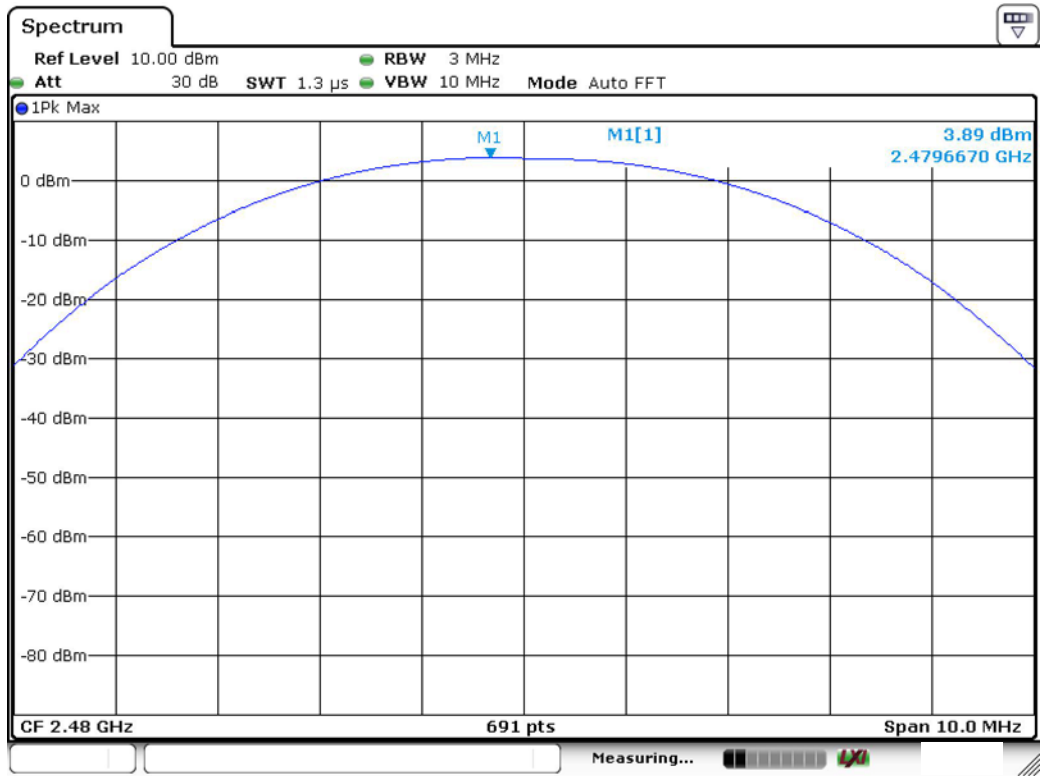
Date: 3.JUL.2017 22:22:48

Test Mode: BT 4.0-BLE GFSK 2440MHz



Date: 3.JUL.2017 22:23:22

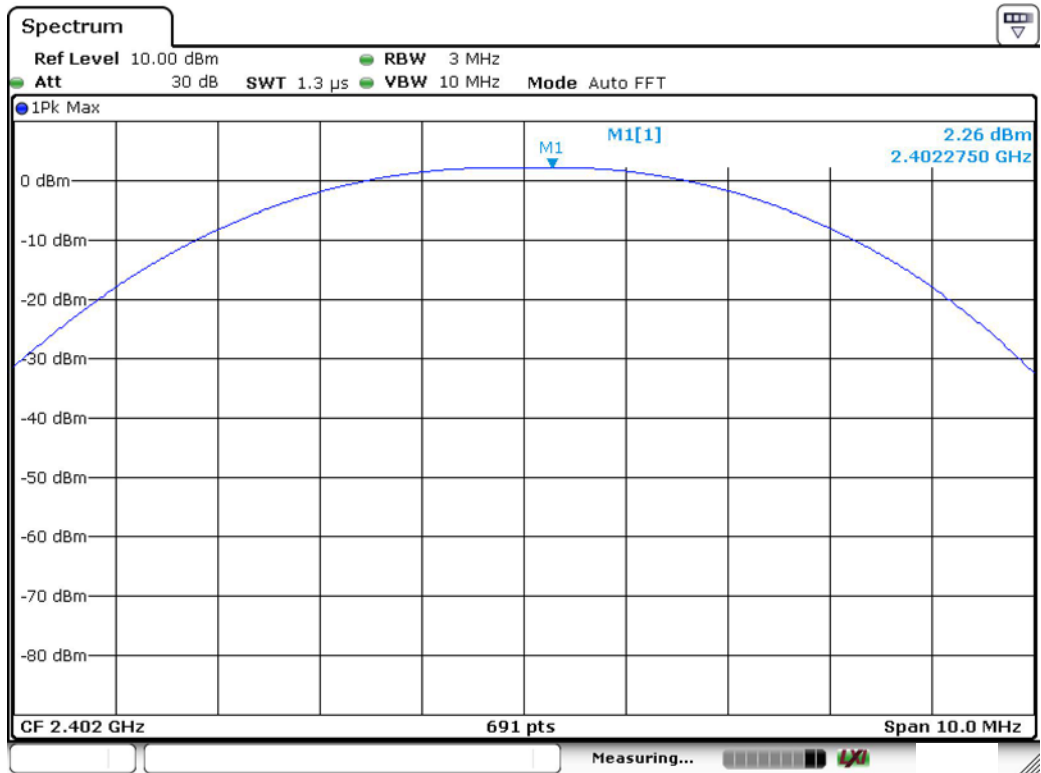
Test Mode: BT 4.0-BLE GFSK 2480MHz



Date: 3.JUL.2017 22:23:46

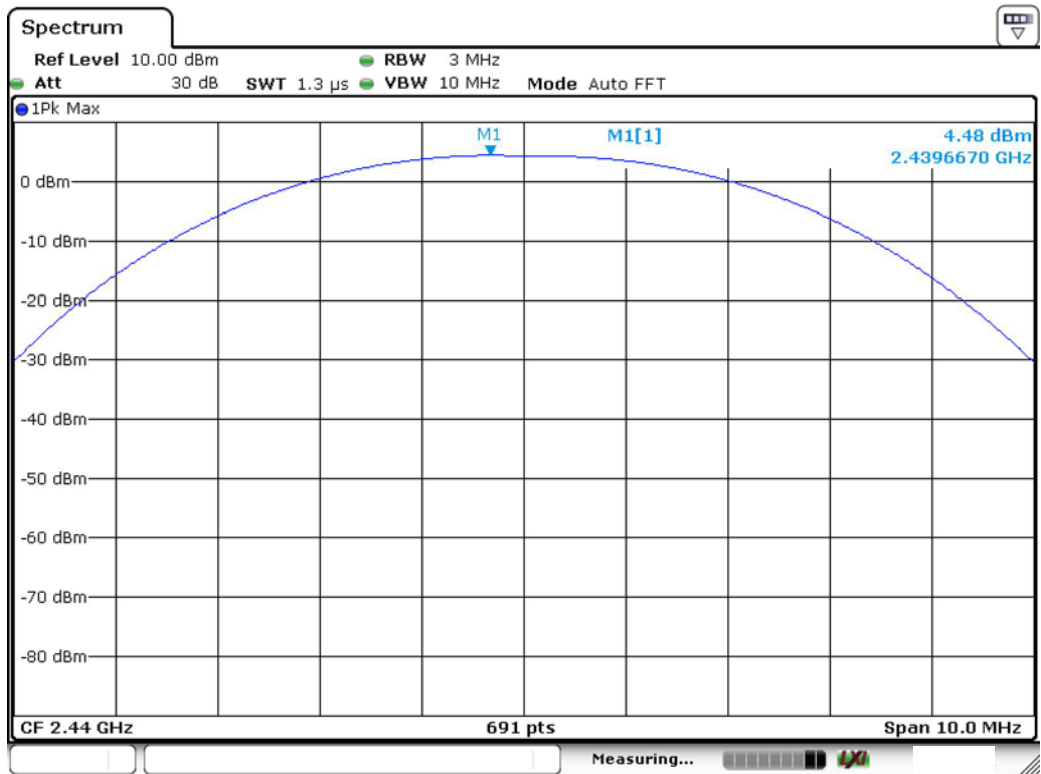
Ant 2

Test Mode: BT 4.0-BLE GFSK 2402MHz



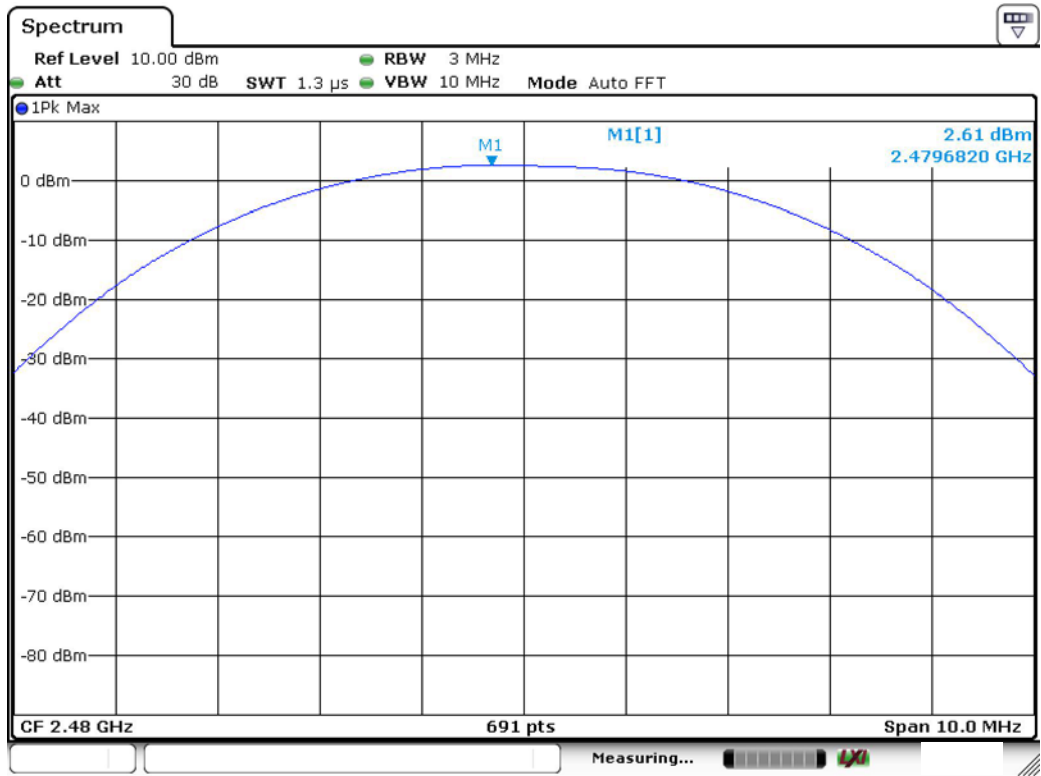
Date: 7.JUL.2017 16:19:56

Test Mode: BT 4.0-BLE GFSK 2440MHz



Date: 7.JUL.2017 16:20:52

Test Mode: BT 4.0-BLE GFSK 2480MHz



Date: 7.JUL.2017 16:21:18

8 POWER SPECTRAL DENSITY TEST

8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set analyzer center frequency to DTS channel center frequency.
 - (2). Set the span to 1.5 times the DTS bandwidth.
 - (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - (4). Set the VBW $\geq 3 \text{ RBW}$.
 - (5). Detector = peak.
 - (6). Sweep time = auto couple.
 - (7). Trace mode = max hold.
 - (8). Allow trace to fully stabilize.
 - (9). Use the peak marker function to determine the maximum amplitude level.
 - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

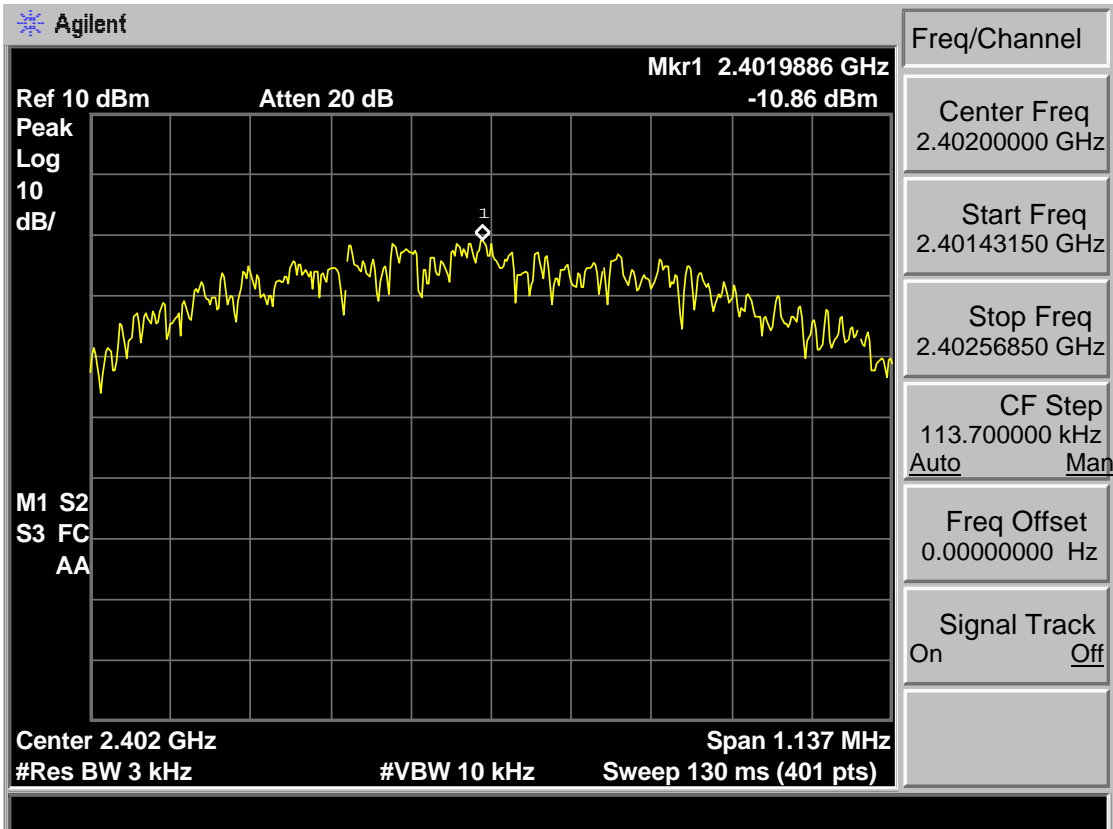
8.3 Test Result

EUT: 2.0 SOUND BAR WITH INTEGRATED SUBWOOFER				
M/N: RSB-3				
Test date: 2017-06-25		Test site: 3m Chamber		Tested by: Tony Tang
Pass				
Test Mode	CH	Power density (dBm/3kHz)		Limit (dBm/3kHz)
		Ant 1	Ant 2	
BT 4.0-BLE GFSK	CH1	-10.86	-13.08	8
	CH20	-9.07	-10.70	8
	CH40	-10.24	-11.48	8
Conclusion : PASS				

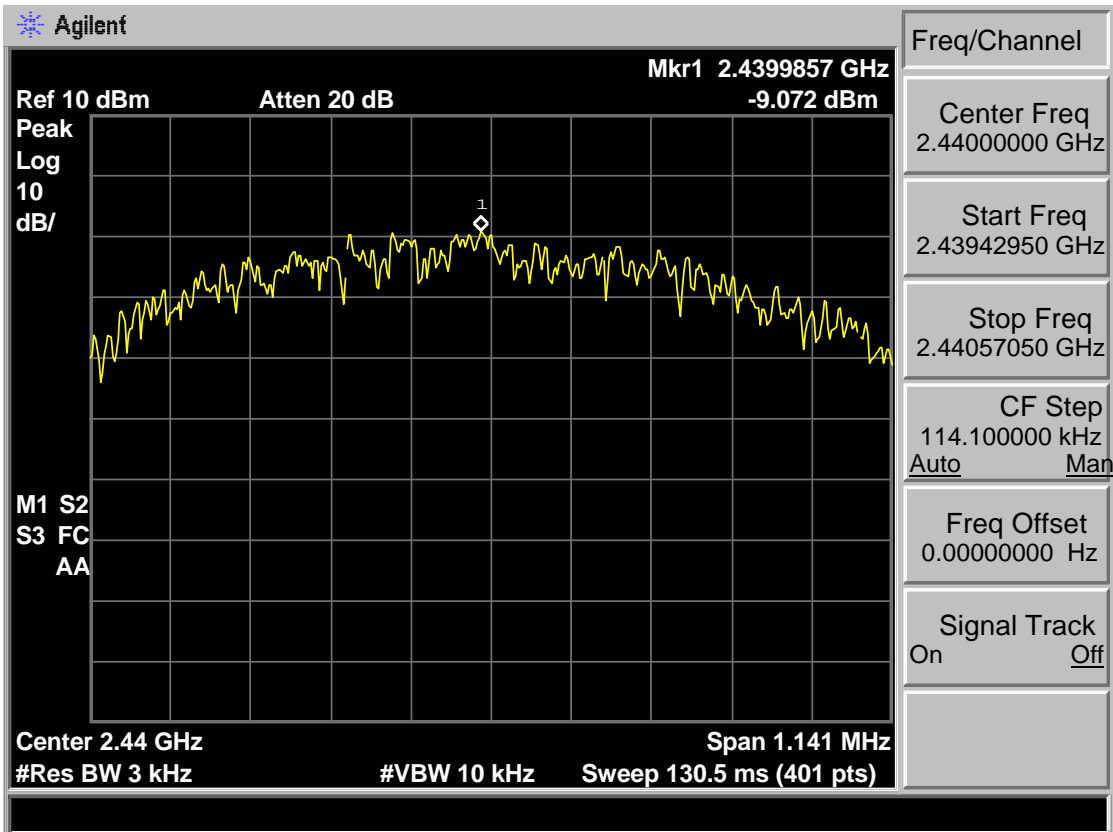
8.4 Test Data

Ant 1

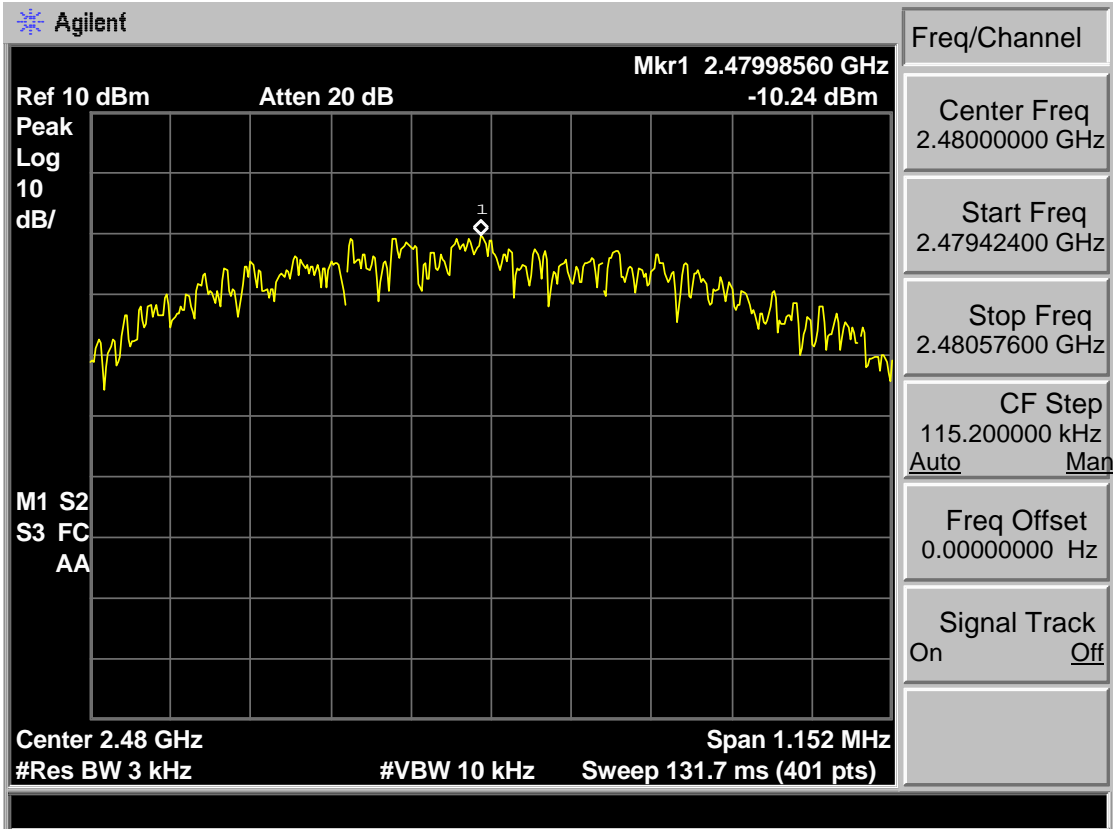
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz

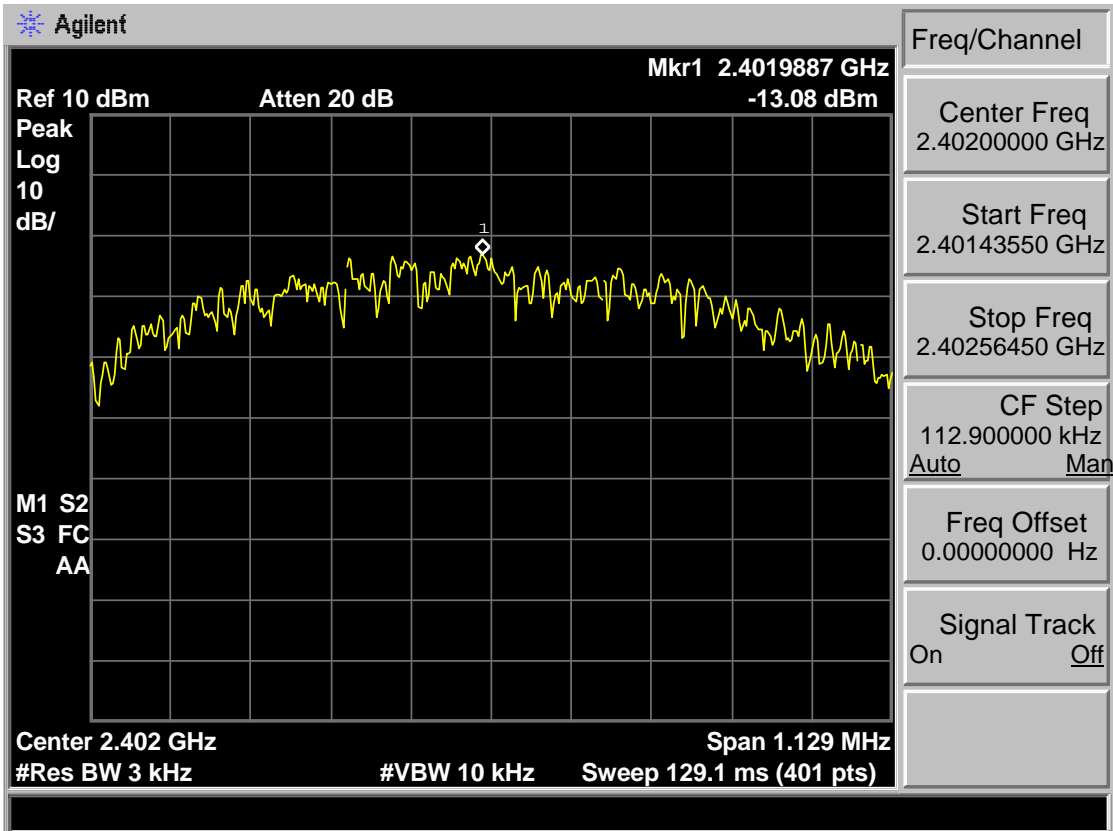


Test Mode: BT 4.0-BLE GFSK 2480MHz

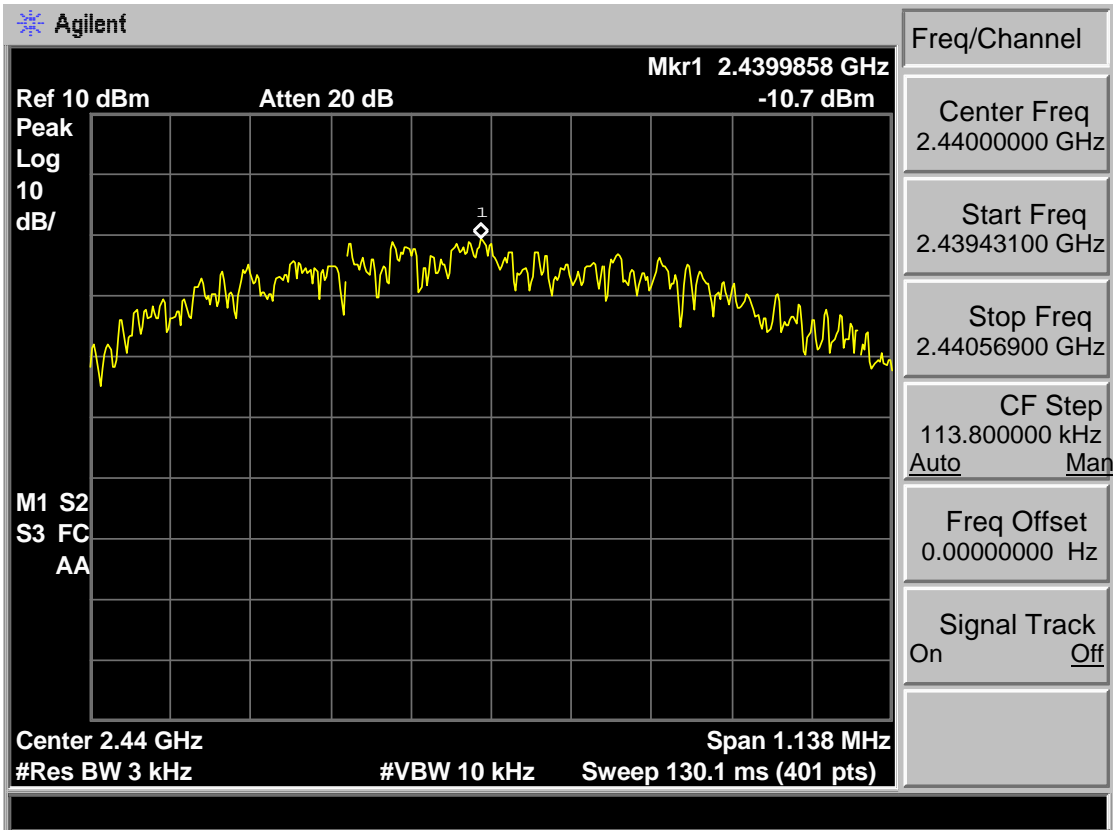


Ant 2

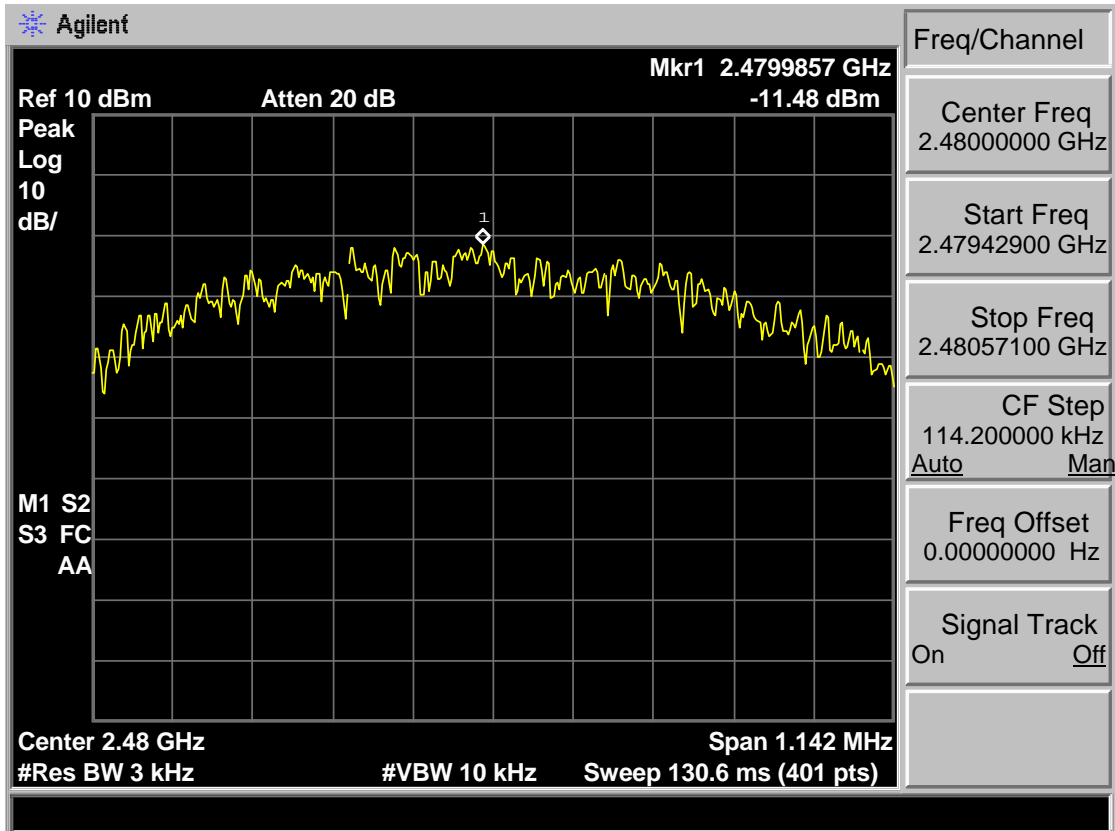
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



9 ANTENNA REQUIREMENTS

9.1 Limit

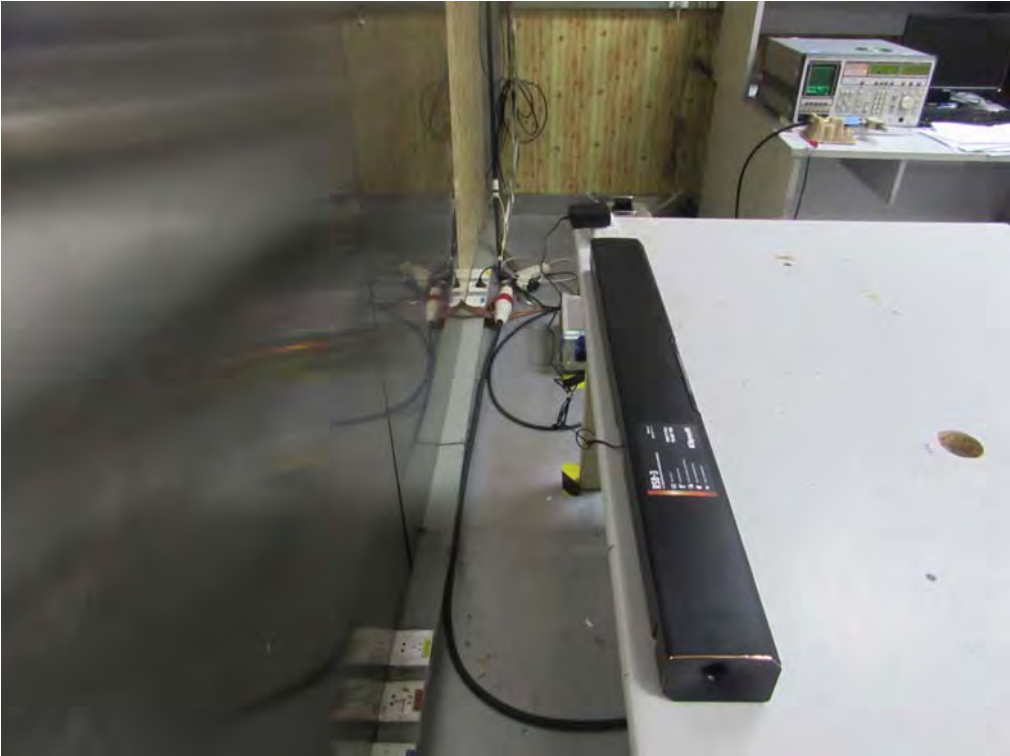
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

9.2 Result

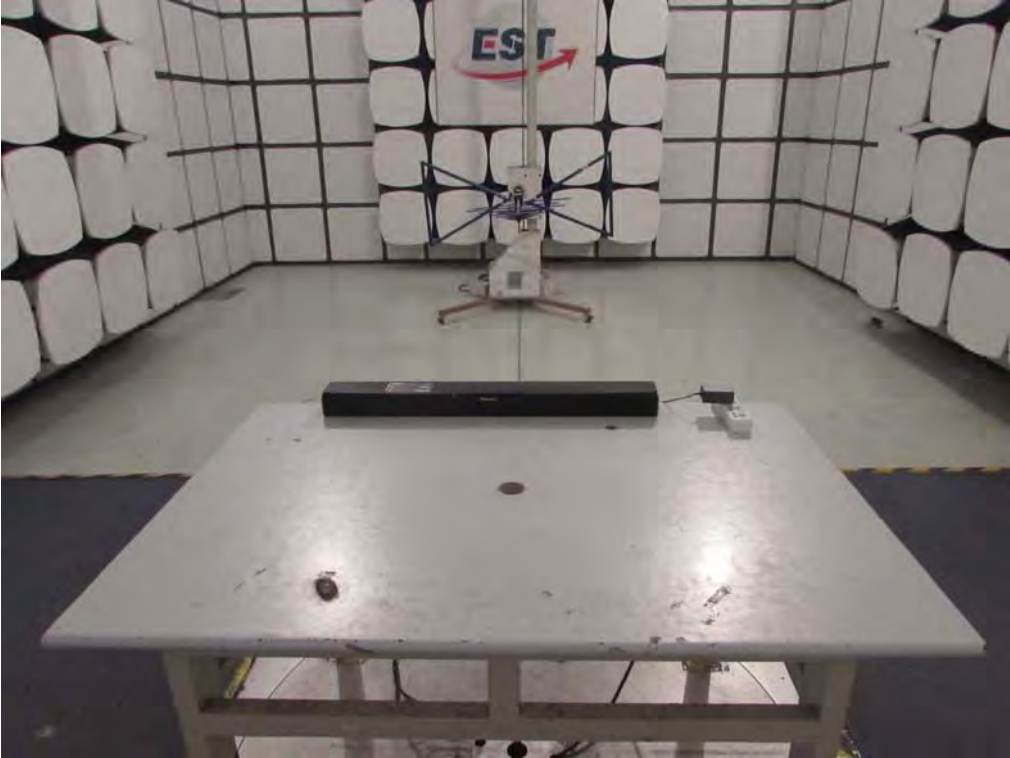
The antennas used for this product are PIFA antenna and PCB antenna , That no antenna other than that furnished by the responsible party shall be used with the device, the PIFA antenna maximum peak gain of the transmit antenna is only 4.93 dBi, the PCB antenna maximum peak gain of the transmit antenna is only 0 dBi.

10 TEST SETUP PHOTO

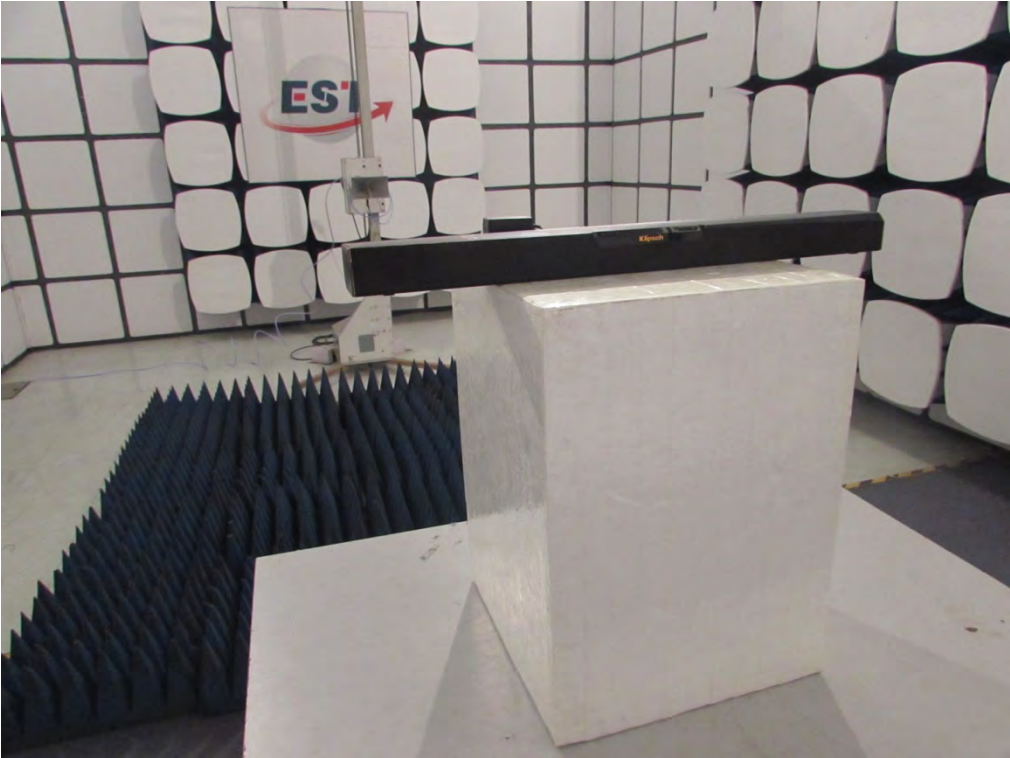
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1GHz)



11 PHOTO EUT

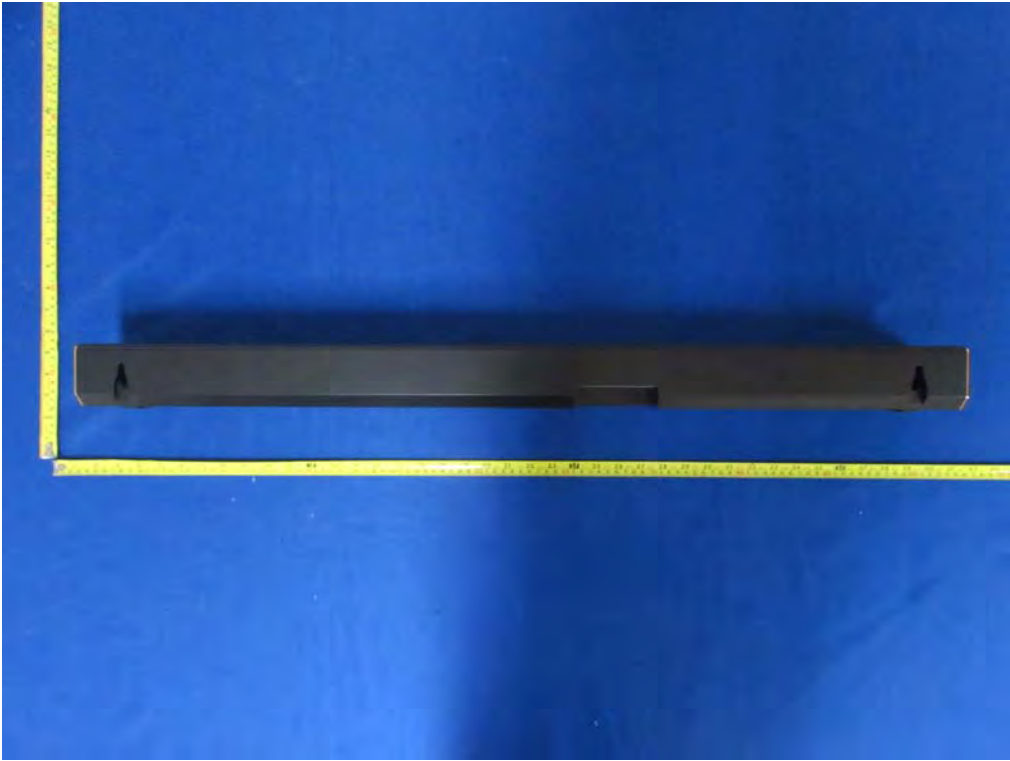
External Photos
M/N: RSB-3



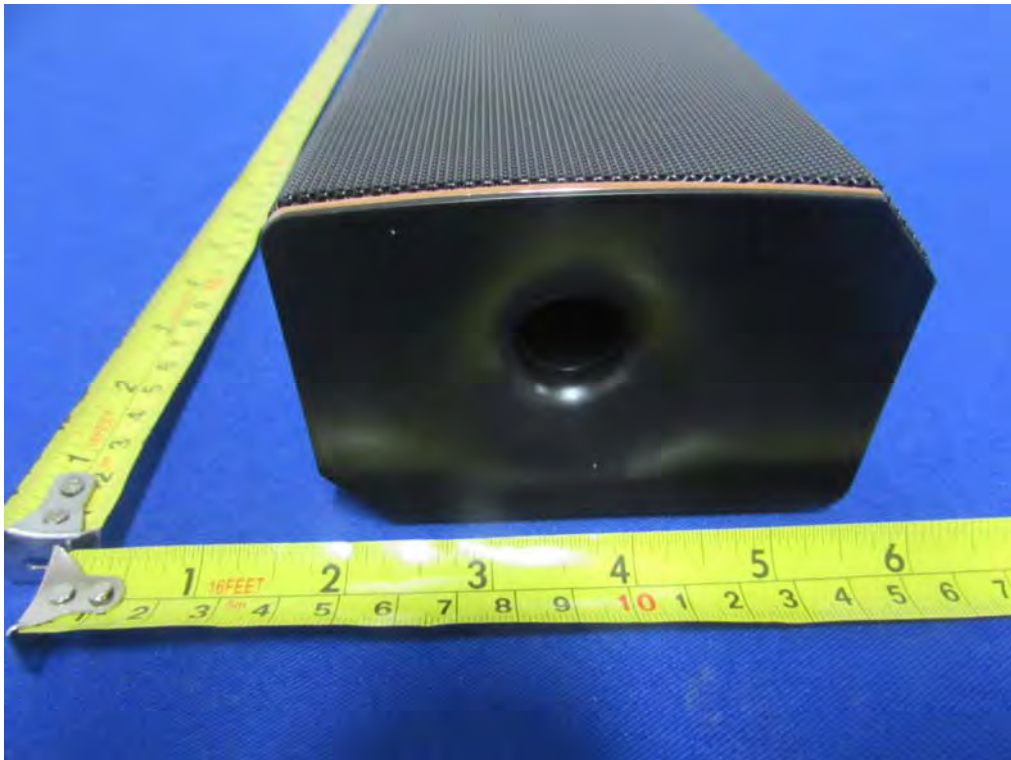
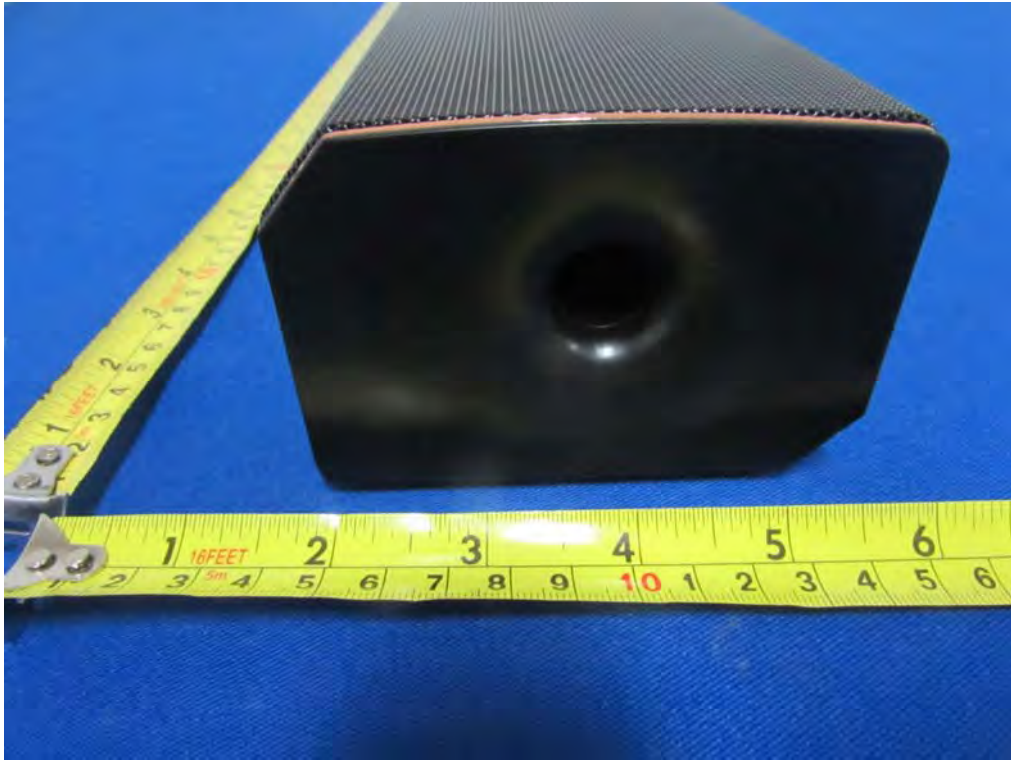
External Photos
M/N: RSB-3



External Photos
M/N: RSB-3



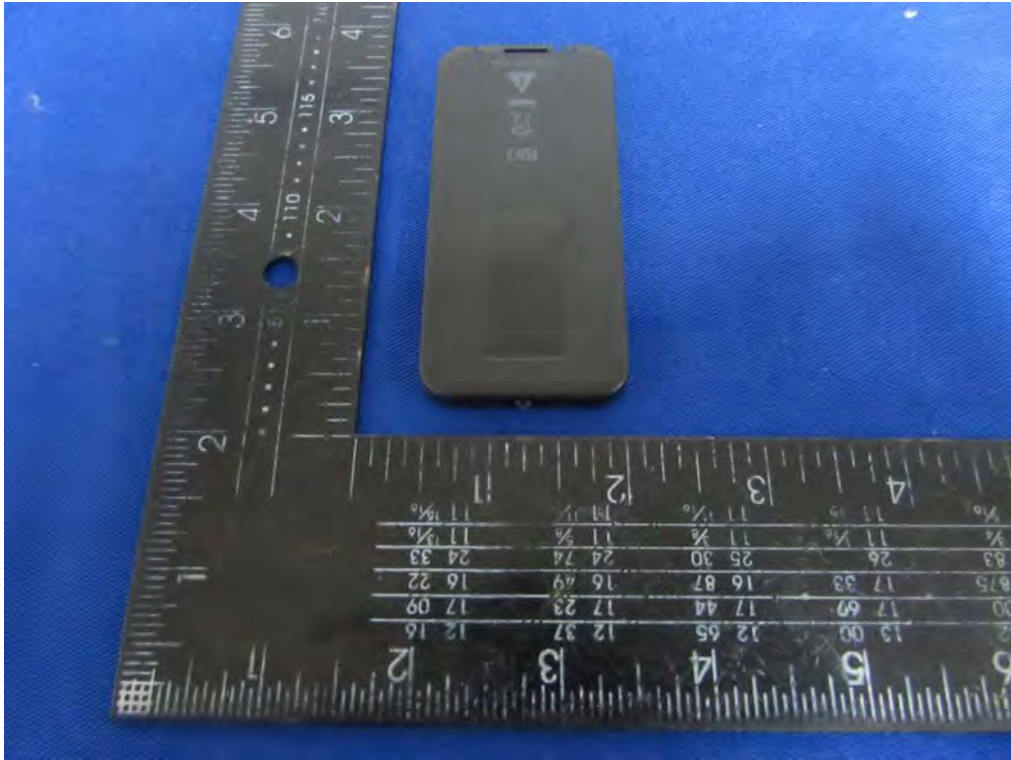
External Photos
M/N: RSB-3



External Photos
M/N: RSB-3



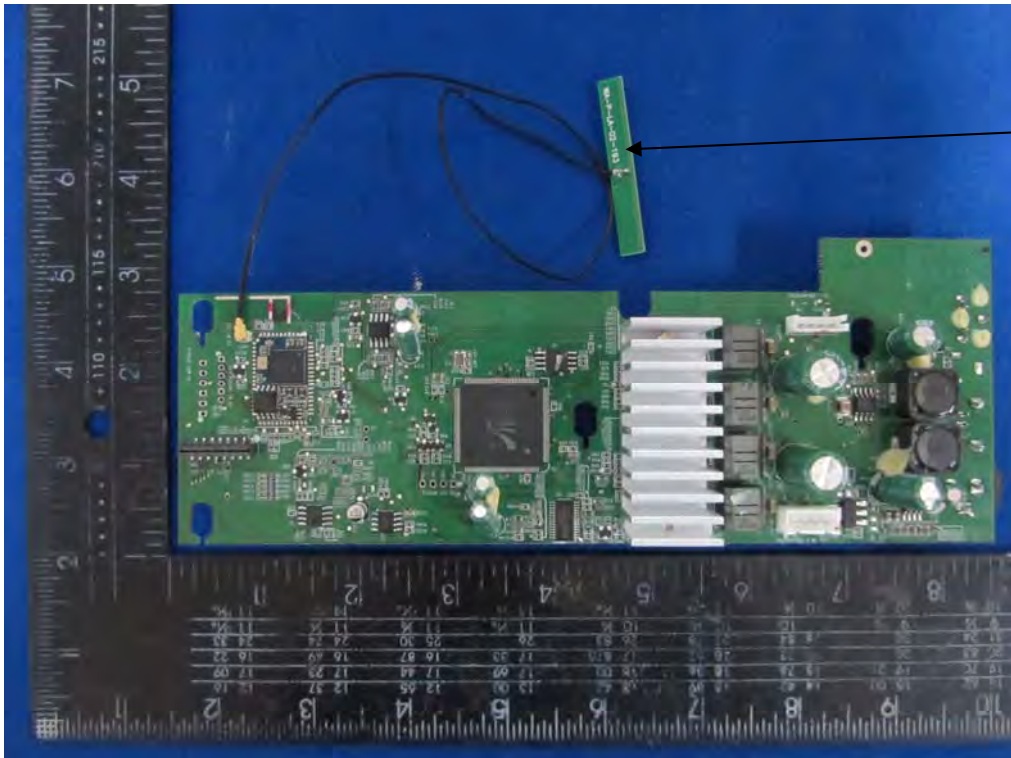
External Photos
M/N: RSB-3



External Photos
M/N: RSB-3

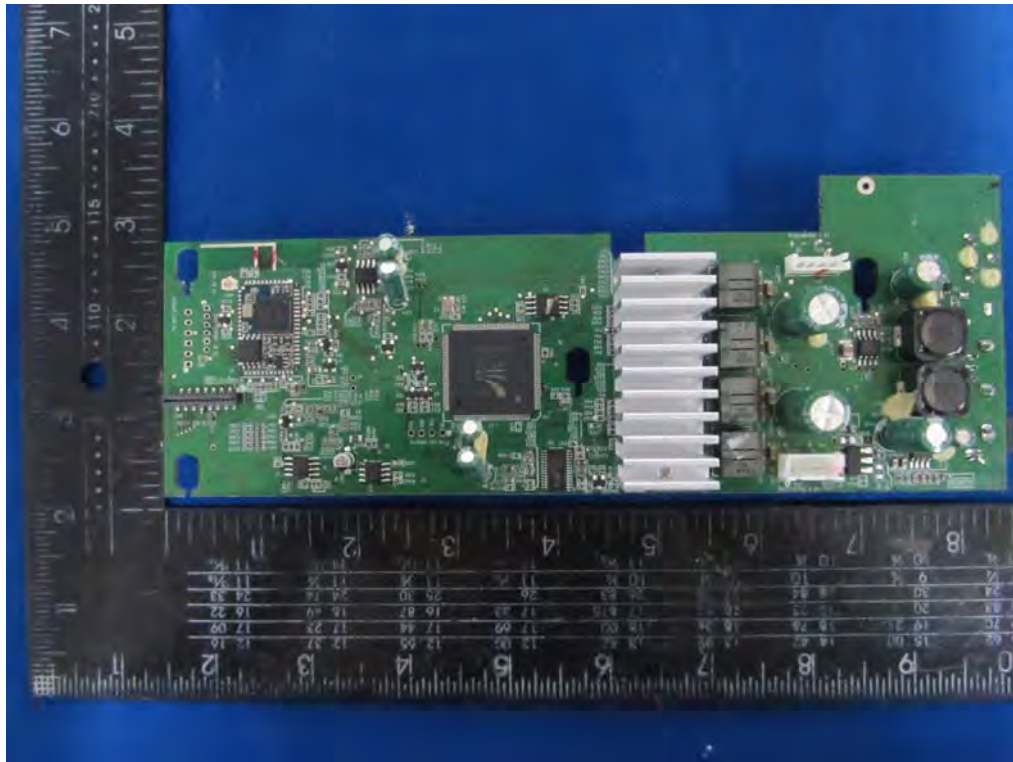


Internal Photos
M/N: RSB-3

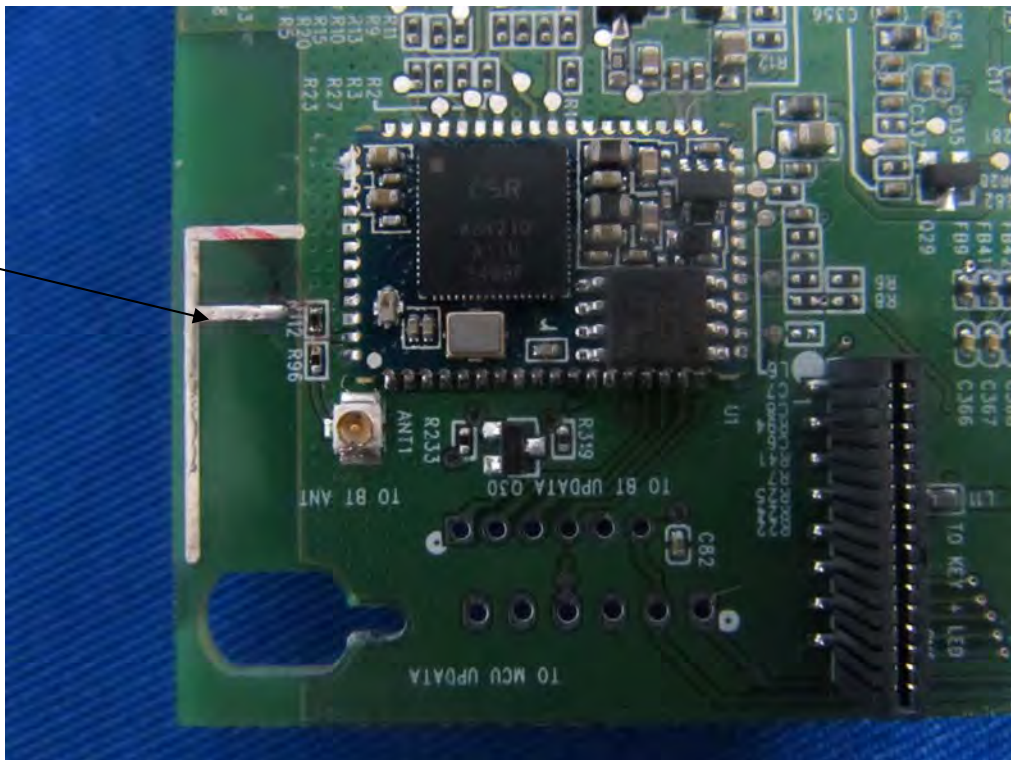
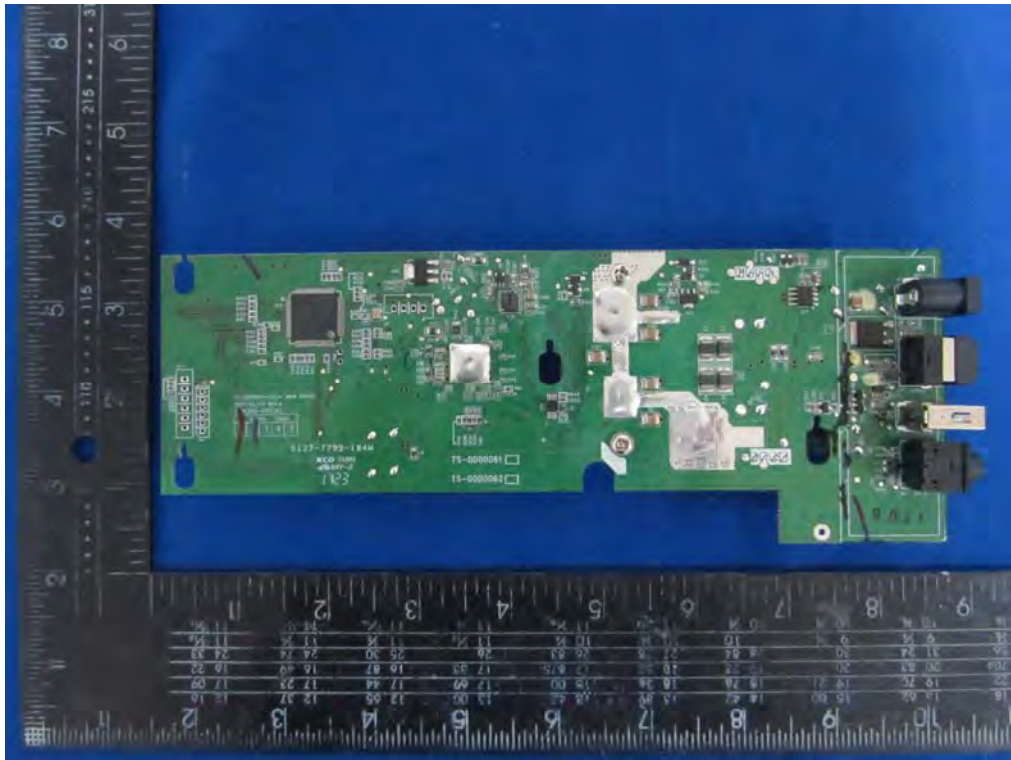


PIFA
Bluetooth
Antenna

Internal Photos
M/N: RSB-3

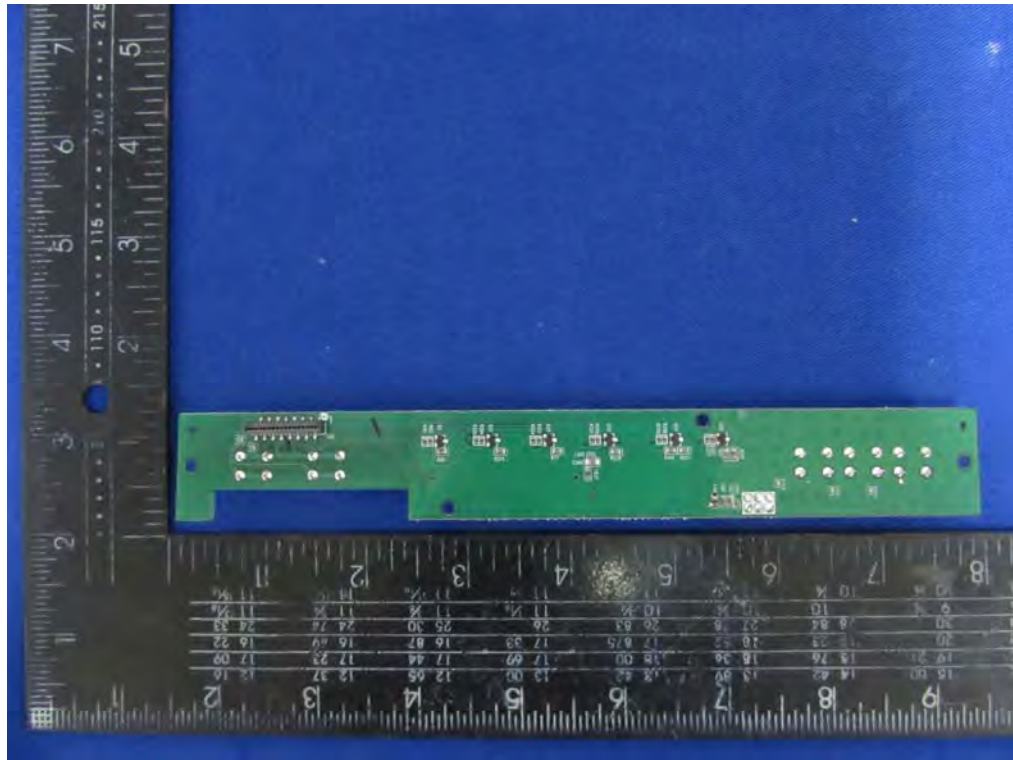
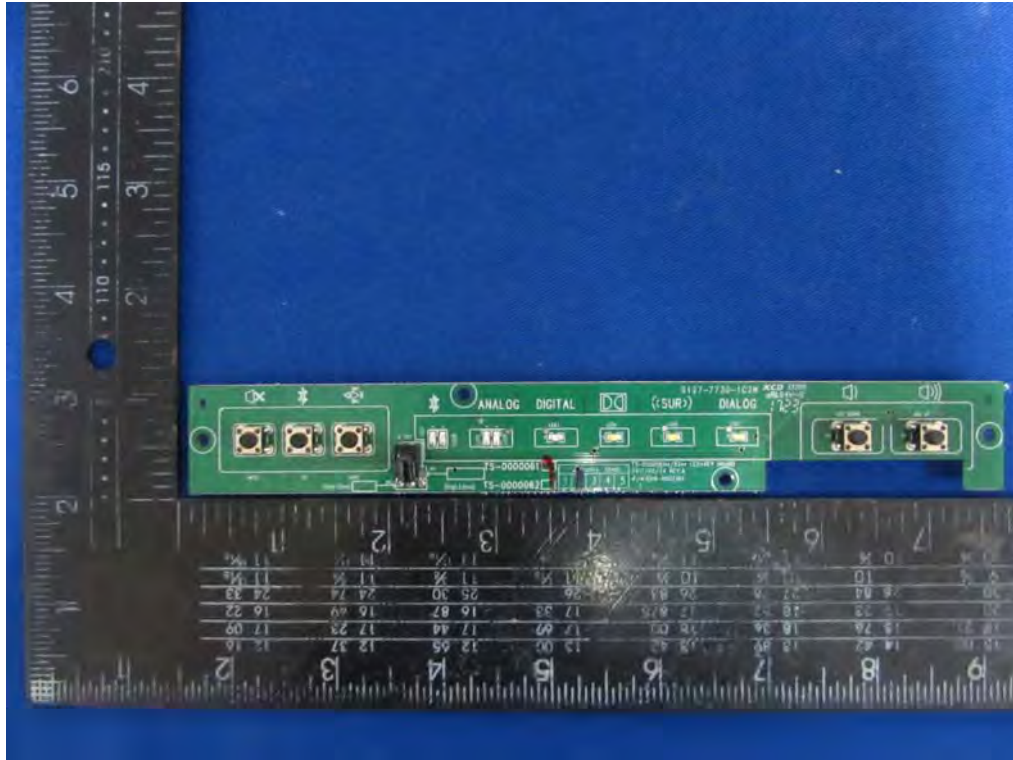


Internal Photos
M/N: RSB-3



PCB
Bluetooth
Antenna

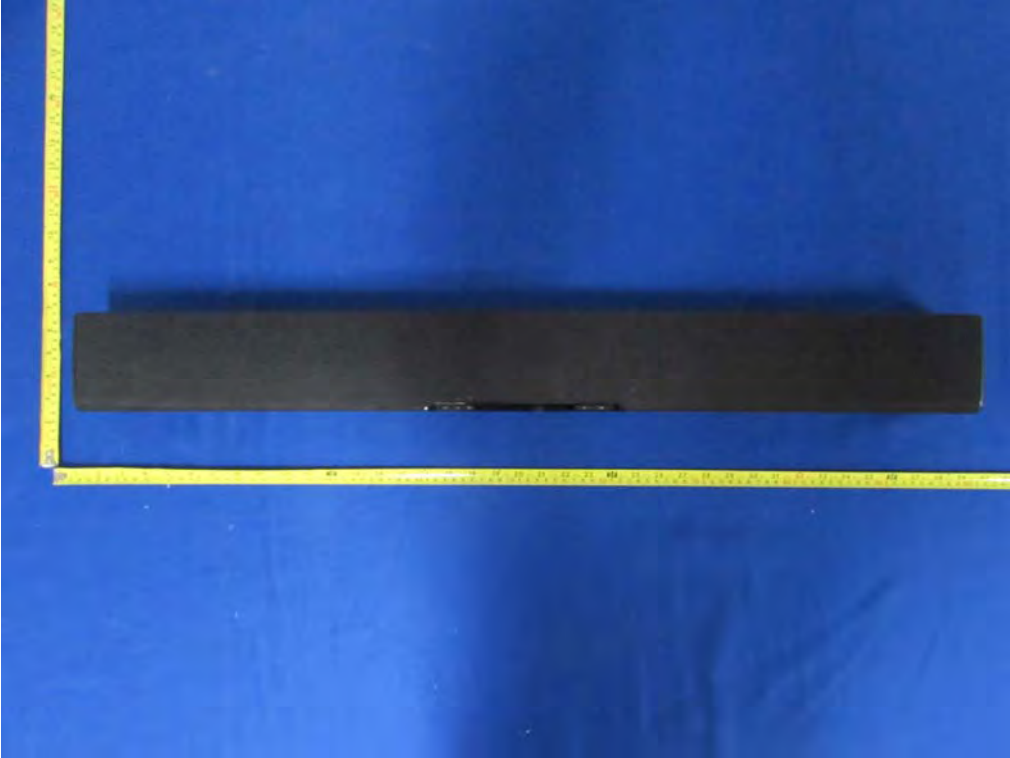
Internal Photos
M/N: RSB-3



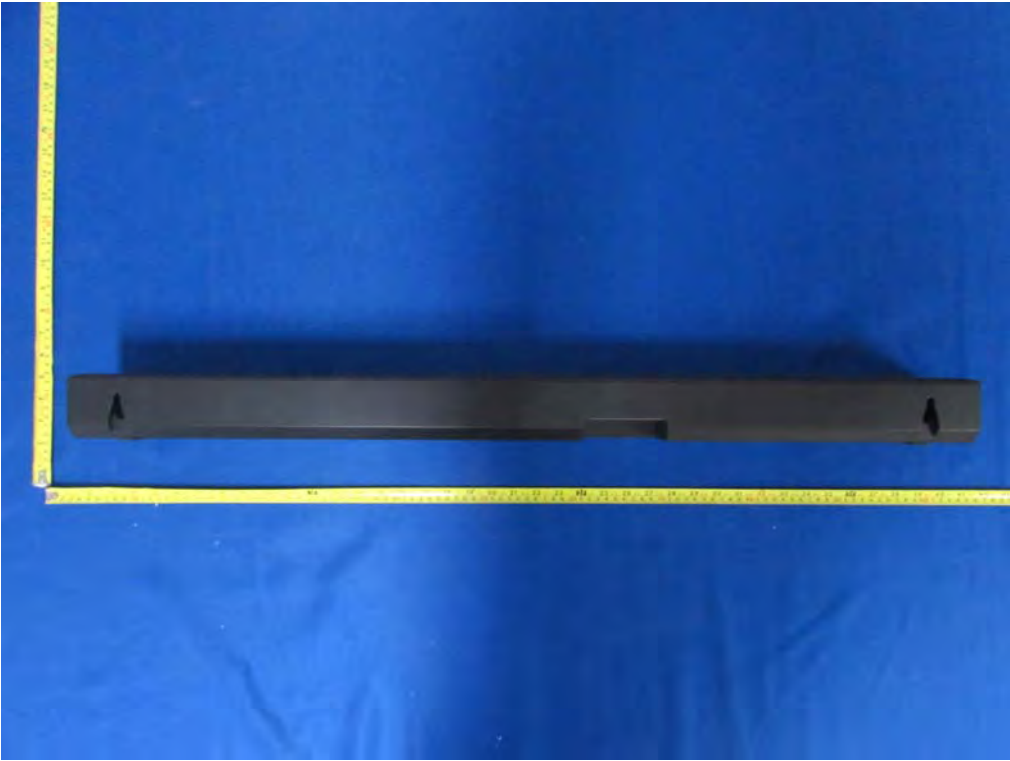
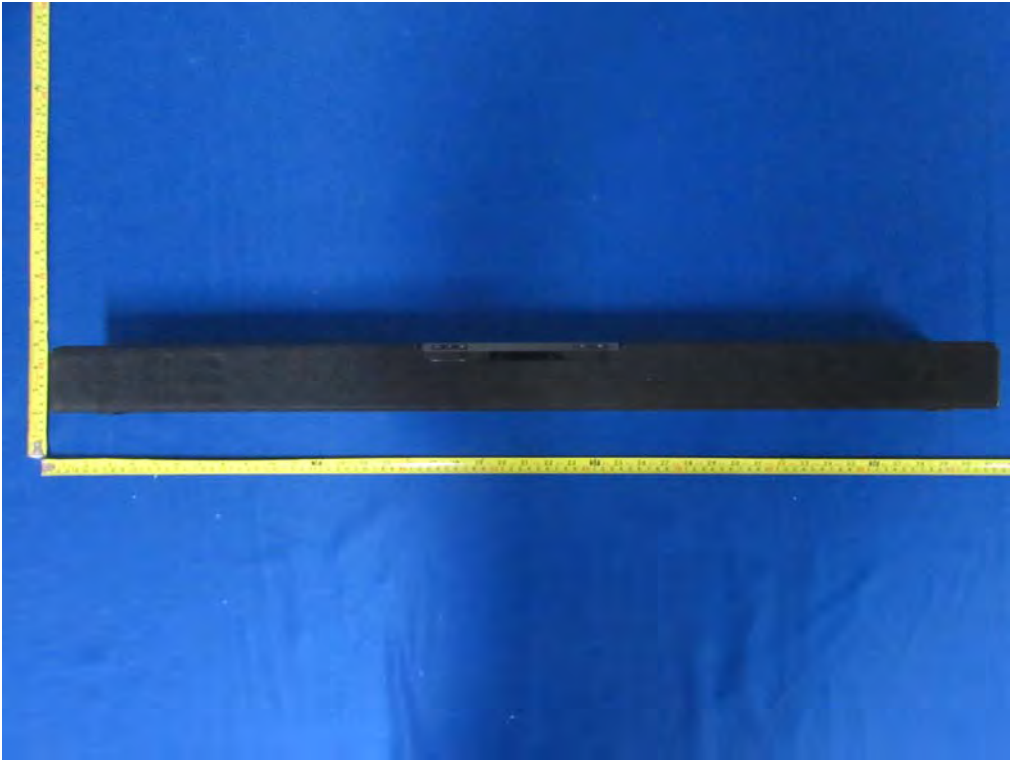
External Photos
M/N: STUDIO SB 36



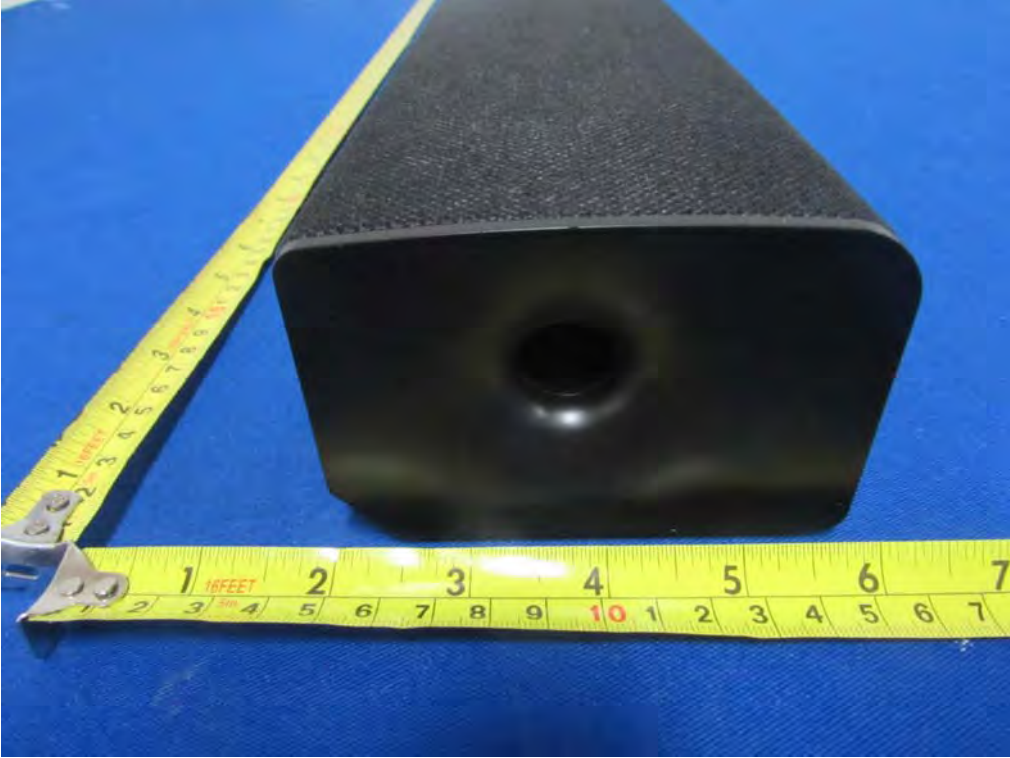
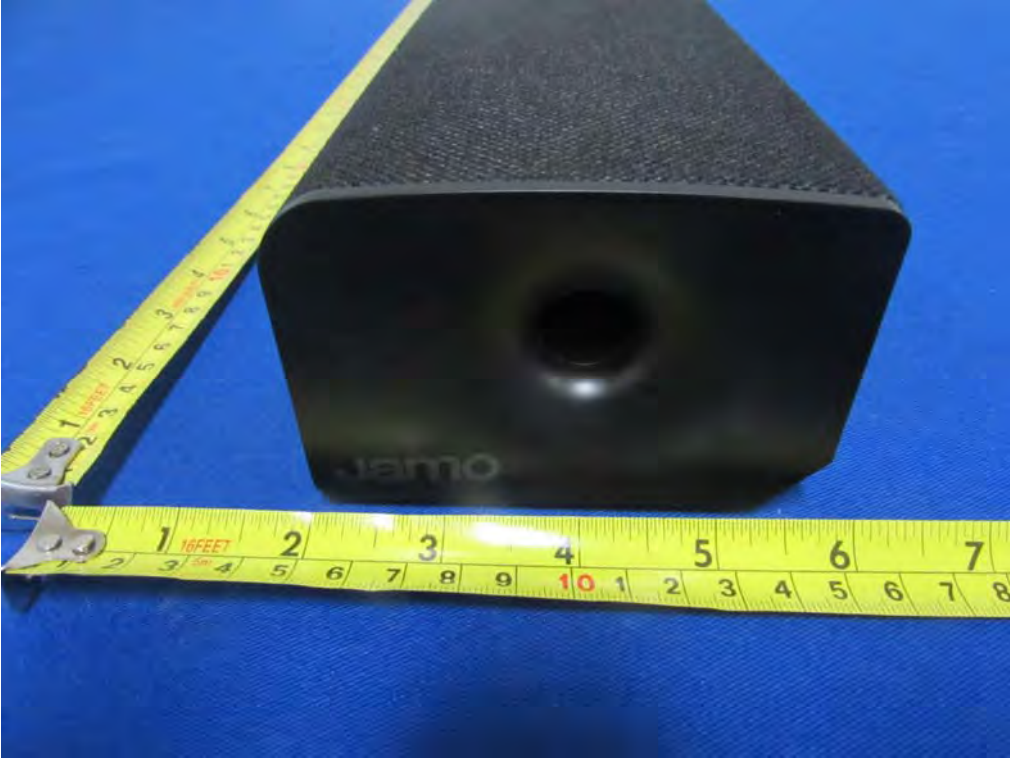
External Photos
M/N: STUDIO SB 36



External Photos
M/N: STUDIO SB 36



External Photos
M/N: STUDIO SB 36



External Photos
M/N: STUDIO SB 36



External Photos
M/N: STUDIO SB 36



External Photos
M/N: STUDIO SB 36

