FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Shenyang Tongfang Multimedia Technology Co., Limited

LED TV

Model Number: ELST5016S

Additional Model: SE50FS, SE50FYT，ELST50XXXXXXXXX, SE50XXXXXXXXX

FCC ID: 2ACWIELST5016S

Prepared for : Shenyang Tongfang Multimedia Technology Co., Limited
No. 10 Nanping East Road HunNan New District Shenyang,
LiaoNing Province P.R. China

Prepared By : EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town, DongGuan City,
GuangDong, China.

Tel: 86-769-83081888-808

Report Number: ESTE-R1603042
Date of Test : Feb 27~ Mar 15, 2016
Date of Report : Mar 17, 2016

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. Assistant equipment used for test....8
   2.4. Block Diagram....8
   2.5. Test mode....9
   2.6. Channel List for wifi....9
   2.7. Test Equipment....10
3 POWER LINE CONDUCTED EMISSION TEST....11
   3.1. Limit....11
   3.3 Test Procedure....11
   3.4. Test Result....11
   3.5. Test data....12
4 RADIATED EMISSION TEST....16
   4.1 Limit....16
   4.2. Block Diagram of Test setup....17
   4.3. Test Procedure....18
   4.4. Test Result....18
   4.5. Test Data....19
5 BAND EDGE COMPLIANCE TEST....91
   5.1 Limit....91
   5.2 Test Procedure....91
   5.3 Test Result....91
   5.4 Test Data....92
6 6dB & 20dB Bandwidth Test....108
   6.1 Limit....108
   6.2 Test Procedure....108
   6.3 Test Result....108
   6.4 6dB Test Data....110
   6.5 20dB Test Data....118
7 OUTPUT POWER TEST....126
   7.1 Limit....126
   7.2 Test Procedure....126
   7.3 Test Procedure....126
   7.4 Test Result....127
   7.5 Test Data....128
8 POWER SPECTRAL DENSITY TEST....136
   8.1 Limit....136
   8.2 Test Procedure....136

8.3 Test Result 137
8.4 Test Data 138
9 ANTENNA REQUIREMENTS 146
9.1 Limit 146
9.2 Result 146
10 TEST SETUP PHOTO 147
11 PHOTOS OF EUT 149

Test Report Verification

Applicant: **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
Manufacturer **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
Factory **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
E.U.T:	LED TV
Model Number:	ELST5016S
Additional Model:	SE50FS, SE50FYT，ELST50XXXXXXXXX, SE50XXXXXXXXX (Where X would be any Arabian number or English letter or blank. Just model name is different, other are exactly the same.)
Power Supply:	AC 100~240V;50/60Hz
Test Voltage:	AC 120V/60Hz；AC 240V/60Hz
Trade Name:	Element, THTF, Fluid , Seiki, Westinghouse Serial No.: ------
Date of Receipt:	Feb 27, 2016 Date of Test: Feb 27~ Mar 15,2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013
Test Result:	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. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Mar.17, 2016

Prepared by:	Tested by:	Approved by:
Ada	Tony	Iceman Hu
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	LED TV
Model Number	:	ELST5016S
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2472 MHz IEEE 802.11n HT20 : 2412 ~ 2472 MHz IEEE 802.11n HT40 : 2422 ~ 2462 MHz
Number of channel	:	IEEE 802.11b: 13 Channels IEEE 802.11g: 13 Channels IEEE 802.11n HT20: 13 Channels IEEE 802.11n HT40: 9 Channels
Antenna and Gain	:	PCB Antenna with 2dBi gain (Max)

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
Conducted spurious emissions	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: 558074 D01 DTS Meas Guidance v03r04		

2.2. Test Facilities

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

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

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.

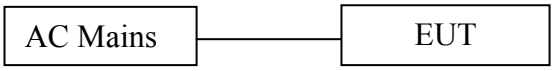
Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

2.3. Assistant equipment used for test

2.3.1. N/A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground.EUT was be set into Wifi test mode by software before test.



(EUT: LED TV)

2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower channel	Center channel	Upper channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Transmitting	2412MHz	2442MHz	2472MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2442MHz	2472MHz
IEEE 802.11n HT40 Transmitting	2422MHz	2442MHz	2462MHz
IEEE 802.11n HT40 Receiving	2422MHz	2442MHz	2462MHz

2.6. Channel List for wifi

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452		
5	2432	10	2457		
IEEE 802.11n HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	4	2437	7	2452
2	2427	5	2442	8	2457
3	2432	6	2447	9	2462

2.7. Test Equipment

2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,15	1 Year

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year

2.7.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June,28,15	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,15	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June,28,15	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.

3.3 Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power 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.

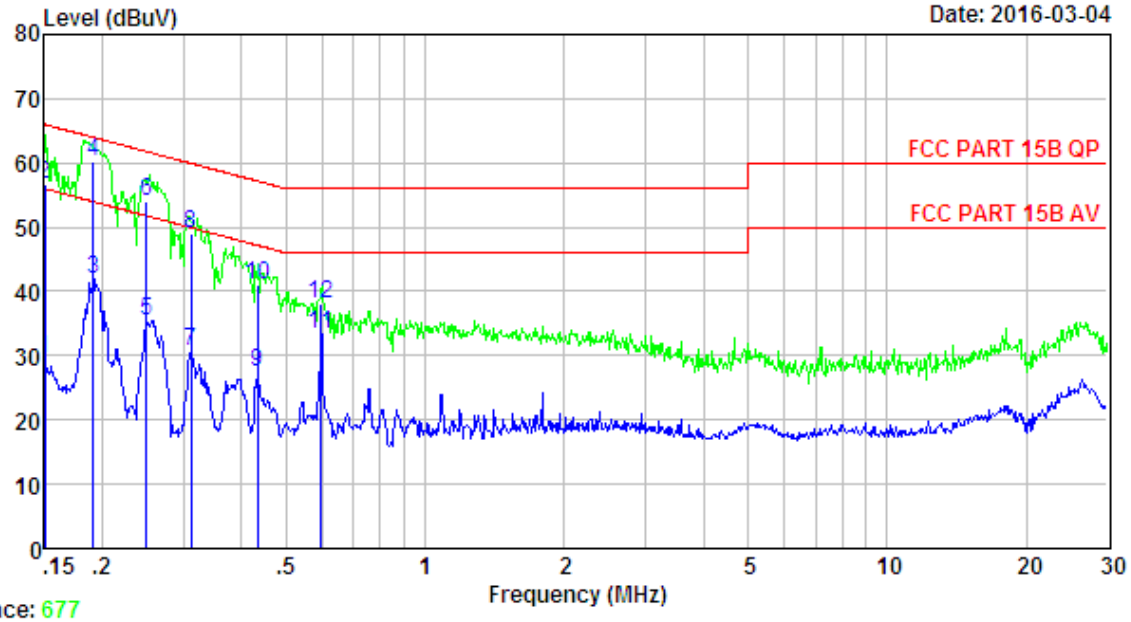
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

3.4. Test Result

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

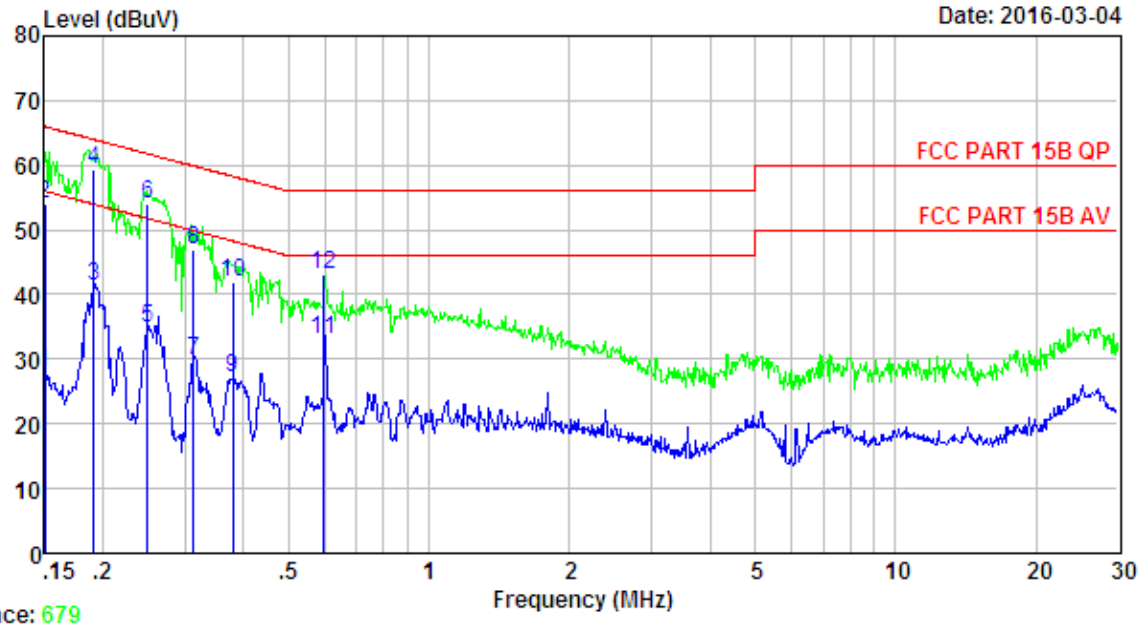
3.5. Test data



Trace: 677

```
Site no      : 844 Shield Room                      Data no.    : 678
Env. / Ins.  : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit        : FCC PART 15B QP
Engineer     : Bible
EUT          : LED TV
Power        : AC 240V/60Hz
M/N          : ELST5016S
Test Mode    : TX Mode
```

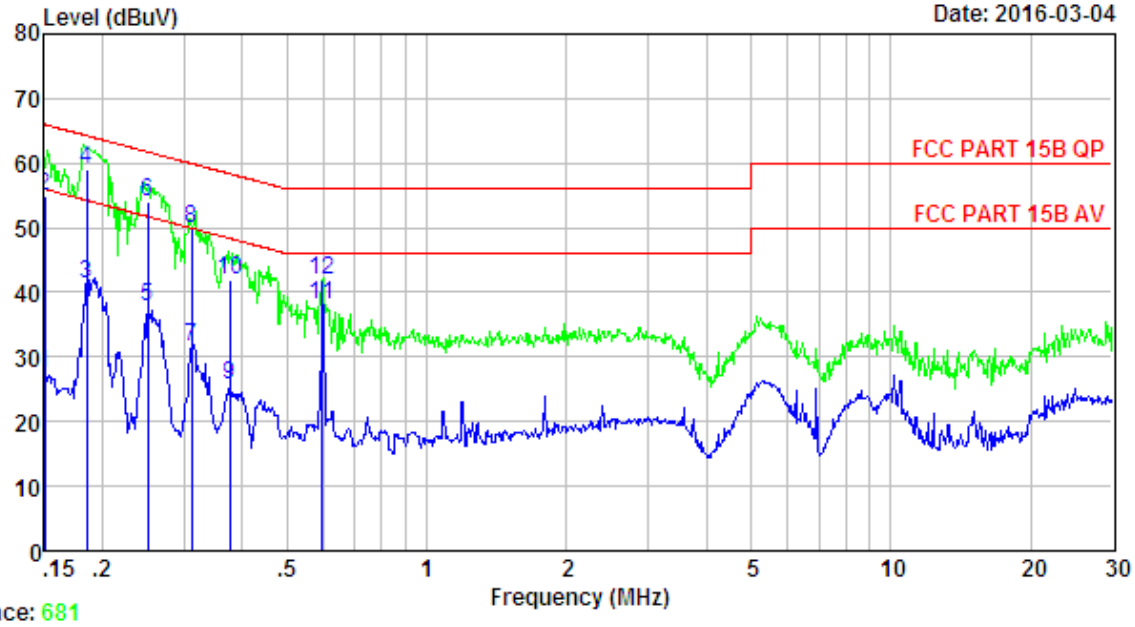
	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.150	9.61	9.81	10.11	29.53	56.00	26.47	Average
2	0.150	9.61	9.81	37.18	56.60	66.00	9.40	QP
3	0.191	9.61	9.80	22.52	41.93	53.98	12.05	Average
4	0.191	9.61	9.80	40.79	60.20	63.98	3.78	QP
5	0.249	9.61	9.82	16.02	35.45	51.78	16.33	Average
6	0.249	9.61	9.82	34.57	54.00	61.78	7.78	QP
7	0.312	9.61	9.83	11.16	30.60	49.93	19.33	Average
8	0.312	9.61	9.83	29.56	49.00	59.93	10.93	QP
9	0.433	9.61	9.81	7.97	27.39	47.20	19.81	Average
10	0.433	9.61	9.81	21.58	41.00	57.20	16.20	QP
11	0.595	9.60	9.82	13.82	33.24	46.00	12.76	Average
12	0.595	9.60	9.82	18.58	38.00	56.00	18.00	QP



Trace: 679

Site no : 844 Shield Room Data no. : 680
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 240V/60Hz
M/N : ELST5016S
Test Mode : TX Mode

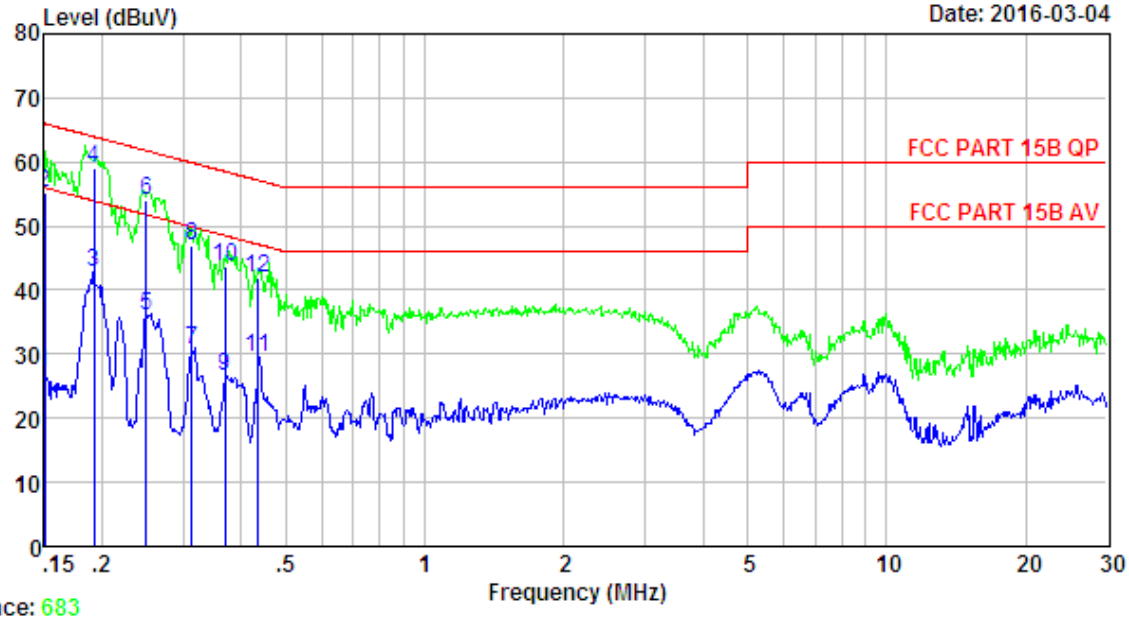
	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.150	9.46	9.81	8.86	28.13	56.00	27.87	Average
2	0.150	9.46	9.81	34.73	54.00	66.00	12.00	QP
3	0.191	9.58	9.80	22.05	41.43	53.98	12.55	Average
4	0.191	9.58	9.80	39.92	59.30	63.98	4.68	QP
5	0.249	9.60	9.82	15.41	34.83	51.78	16.95	Average
6	0.249	9.60	9.82	34.58	54.00	61.78	7.78	QP
7	0.313	9.60	9.83	10.27	29.70	49.88	20.18	Average
8	0.313	9.60	9.83	27.57	47.00	59.88	12.88	QP
9	0.379	9.59	9.82	7.63	27.04	48.30	21.26	Average
10	0.379	9.59	9.82	22.59	42.00	58.30	16.30	QP
11	0.595	9.61	9.82	13.77	33.20	46.00	12.80	Average
12	0.595	9.61	9.82	23.57	43.00	56.00	13.00	QP



Trace: 681

Site no : 844 Shield Room Data no. : 682
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.150	9.46	9.81	8.19	27.46	56.00	28.54	Average
2	0.150	9.46	9.81	35.73	55.00	66.00	11.00	QP
3	0.185	9.56	9.80	21.85	41.21	54.24	13.03	Average
4	0.185	9.56	9.80	39.64	59.00	64.24	5.24	QP
5	0.251	9.60	9.82	18.50	37.92	51.73	13.81	Average
6	0.251	9.60	9.82	34.48	53.90	61.73	7.83	QP
7	0.312	9.60	9.83	12.07	31.50	49.93	18.43	Average
8	0.312	9.60	9.83	30.57	50.00	59.93	9.93	QP
9	0.377	9.59	9.82	6.35	25.76	48.34	22.58	Average
10	0.377	9.59	9.82	22.59	42.00	58.34	16.34	QP
11	0.595	9.61	9.82	18.54	37.97	46.00	8.03	Average
12	0.595	9.61	9.82	22.57	42.00	56.00	14.00	QP



Trace: 683

Site no : 844 Shield Room Data no. : 684
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.150	9.61	9.81	7.83	27.25	56.00	28.75	Average
2	0.150	9.61	9.81	35.88	55.30	66.00	10.70	QP
3	0.192	9.61	9.80	23.27	42.68	53.93	11.25	Average
4	0.192	9.61	9.80	39.69	59.10	63.93	4.83	QP
5	0.249	9.61	9.82	16.50	35.93	51.78	15.85	Average
6	0.249	9.61	9.82	34.67	54.10	61.78	7.68	QP
7	0.313	9.61	9.83	11.30	30.74	49.88	19.14	Average
8	0.313	9.61	9.83	27.56	47.00	59.88	12.88	QP
9	0.369	9.61	9.82	7.27	26.70	48.52	21.82	Average
10	0.369	9.61	9.82	24.17	43.60	58.52	14.92	QP
11	0.435	9.61	9.81	10.03	29.45	47.15	17.70	Average
12	0.435	9.61	9.81	22.58	42.00	57.15	15.15	QP

4 RADIATED EMISSION TEST

4.1 Limit

4.1.1 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/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 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

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.

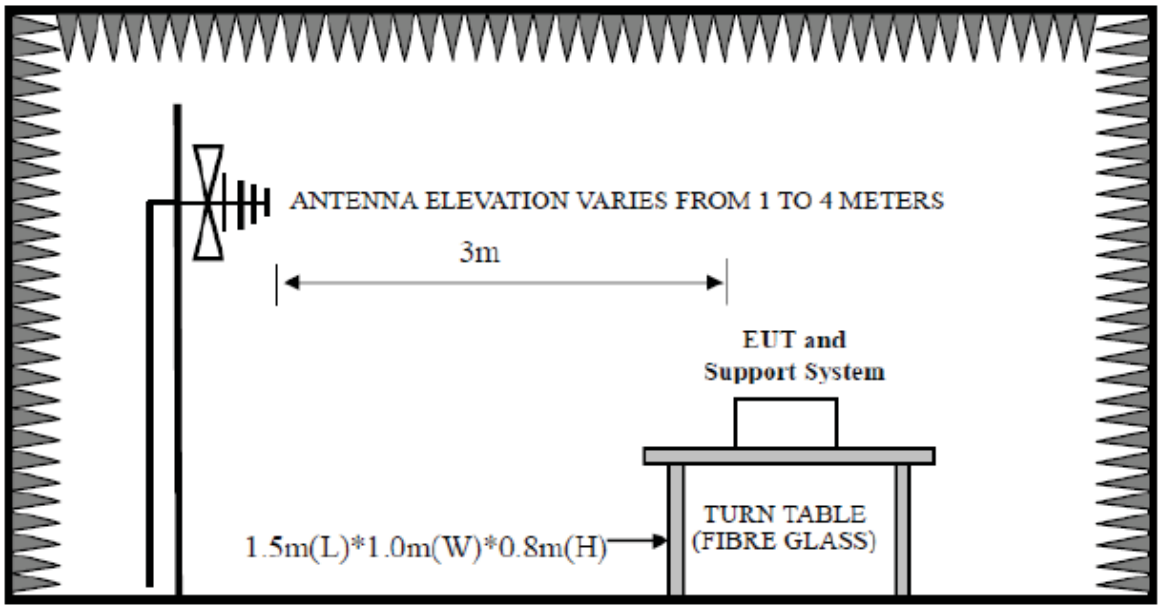
4.1.2 15.205 Restricted bands of operation

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])

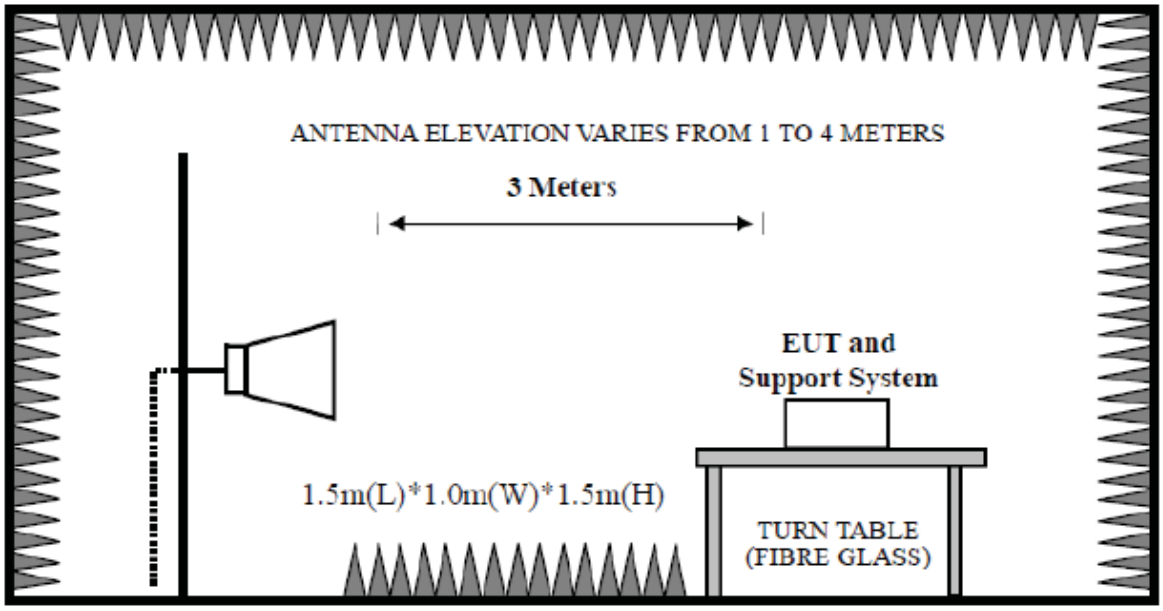
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT and its simulators are 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. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz 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 10^{th} harmonic (25GHz) are checked.

4.4. Test Result

PASS.

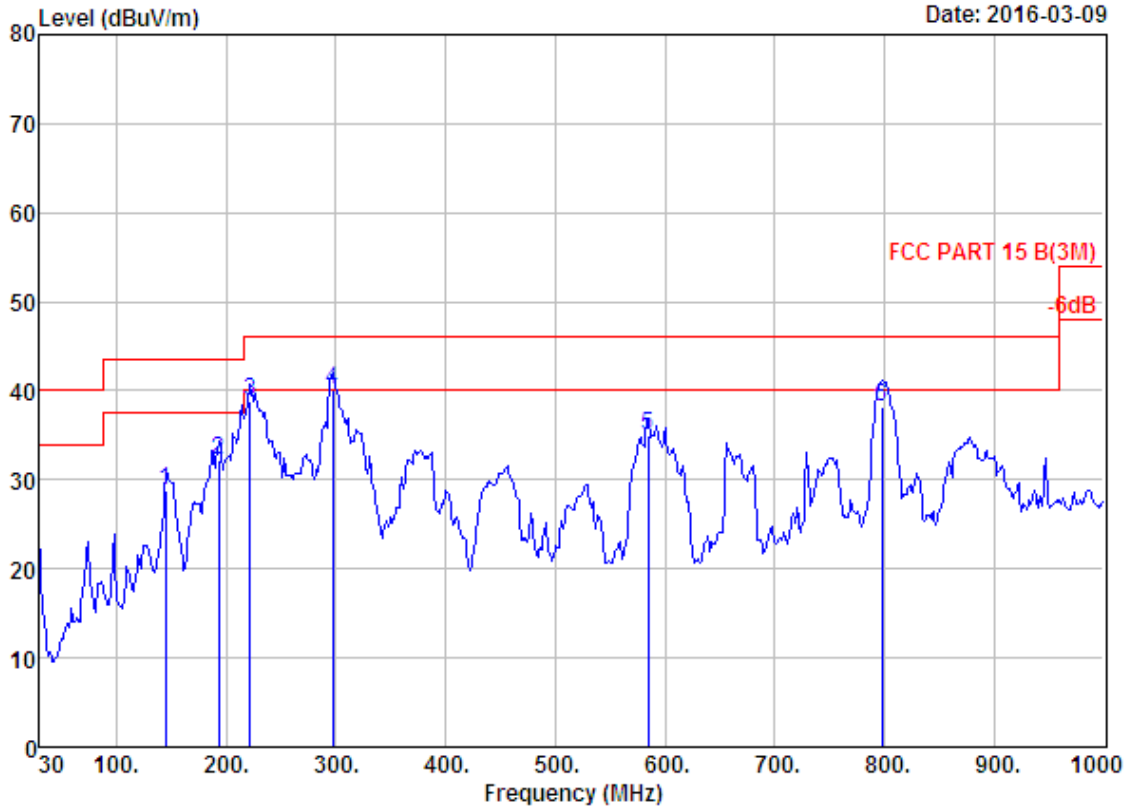
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

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 2412MHz 、2422MHz、2442MHz、2462MHz and 2472 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.

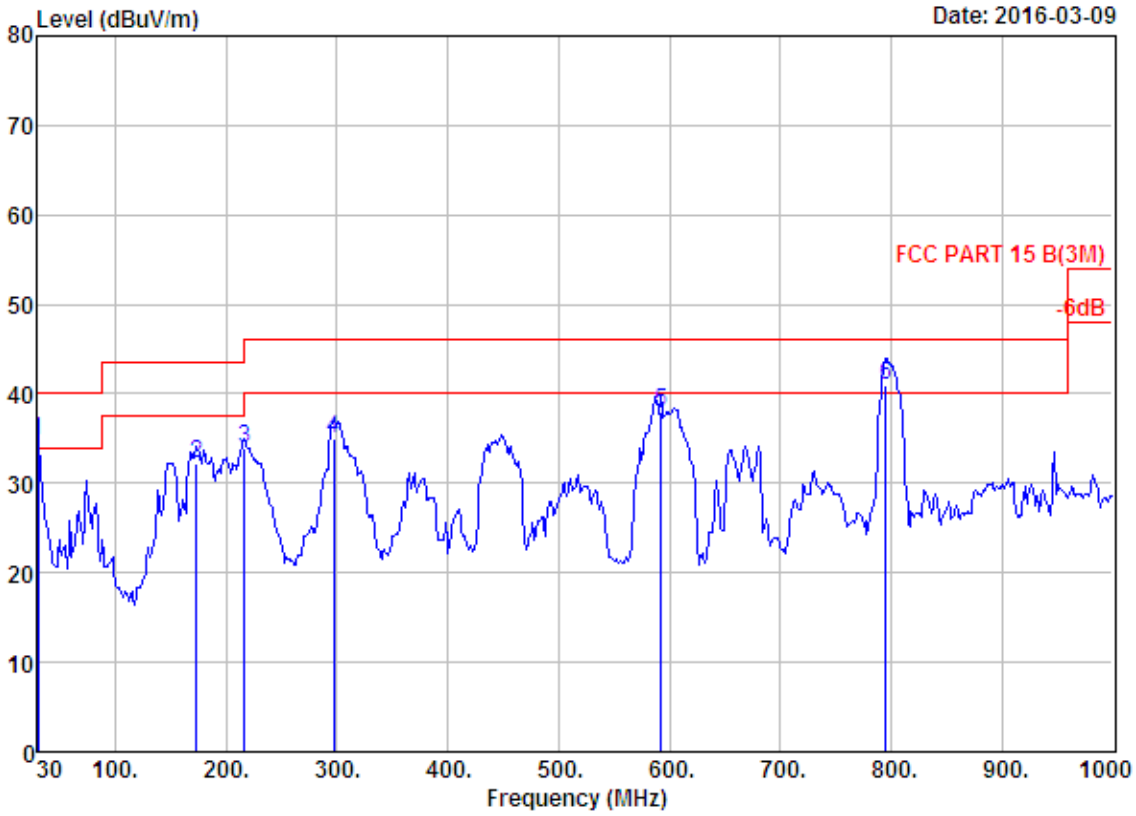
4.5. Test Data

30-1000 MHz



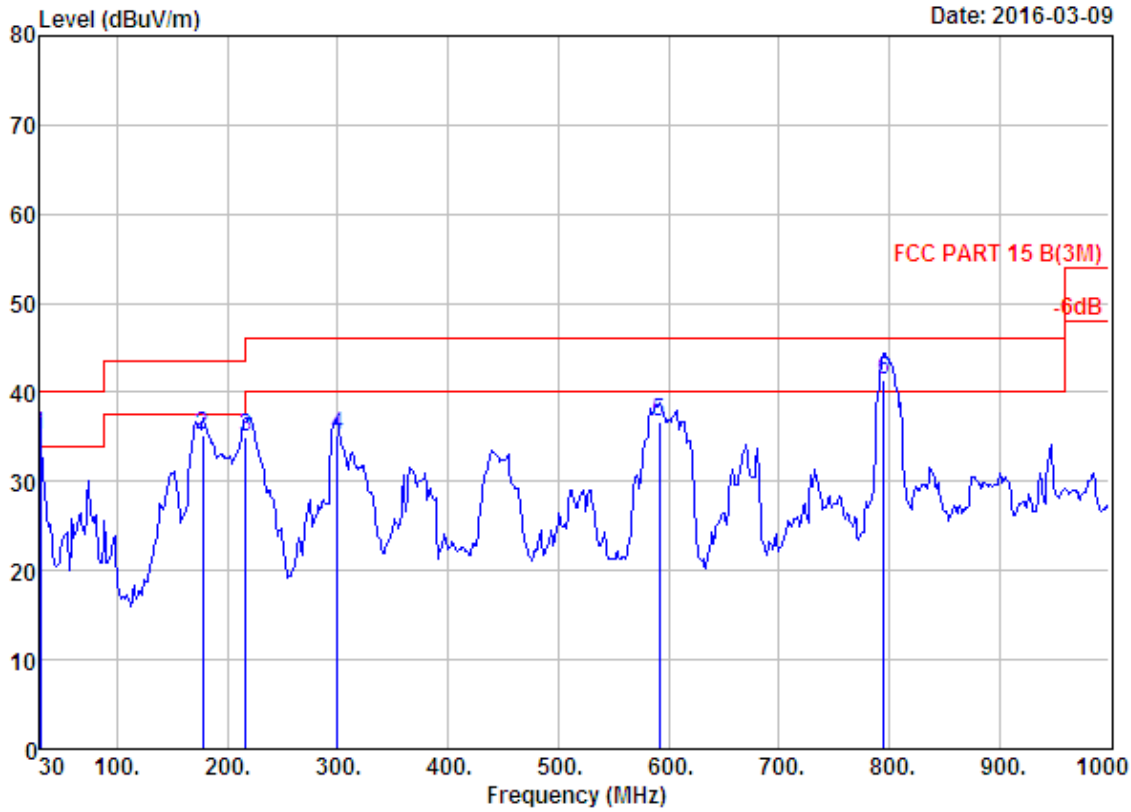

```
Site no.        : 966 1# chamber              Data no.  : 201
Dis. / Ant.     : 3m   27137                  Ant. pol. : HORIZONTAL
Limit           : FCC PART 15 B(3M)
Env. / Ins.     : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer        : Dick
EUT             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11b CH1 2412TX
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	15.93	28.73	43.50	14.77	QP
2	192.96	7.85	1.77	22.66	32.28	43.50	11.22	QP
3	222.06	9.31	2.01	27.49	38.81	46.00	7.19	QP
4	296.75	12.99	2.32	24.70	40.01	46.00	5.99	QP
5	584.84	19.47	3.37	12.15	34.99	46.00	11.01	QP
6	798.24	22.03	3.92	12.16	38.11	46.00	7.89	QP



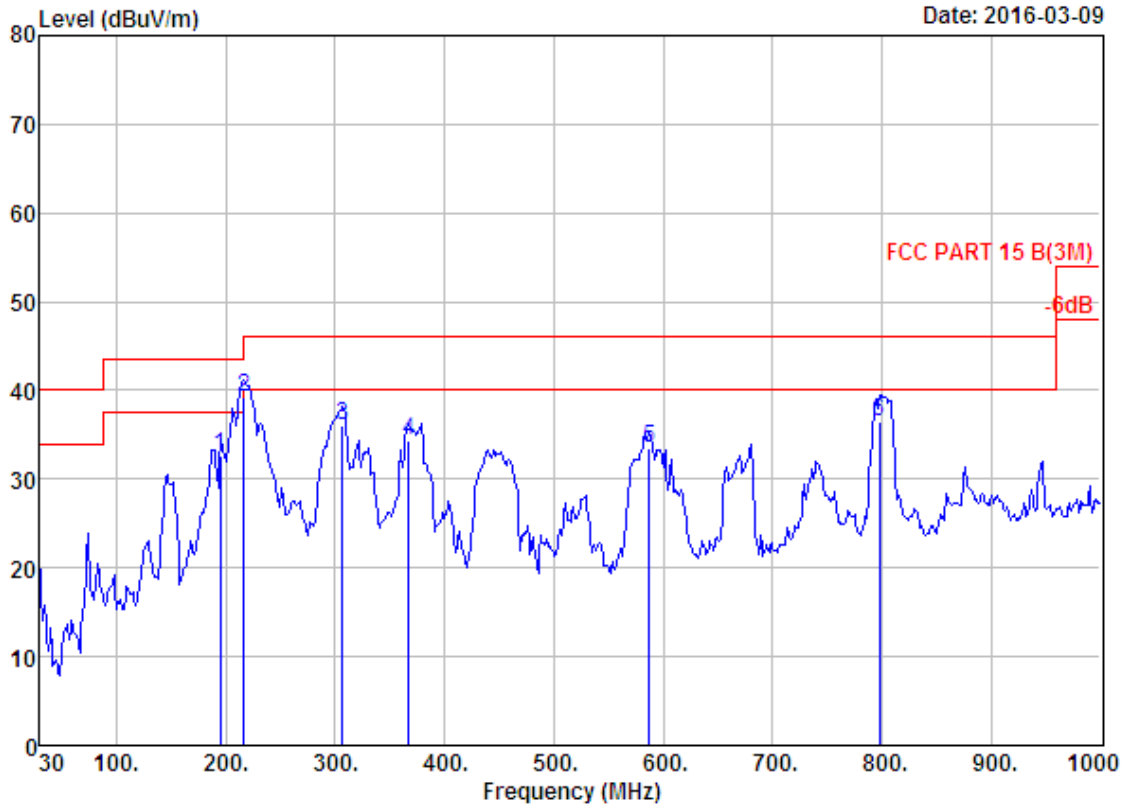
Site no. : 966 1# chamber Data no. : 202
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH1 2412TX

	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	15.66	34.82	40.00	5.18	QP
2	173.56	9.03	1.68	21.44	32.15	43.50	11.35	QP
3	216.24	8.80	1.95	23.14	33.89	46.00	12.11	QP
4	296.75	12.99	2.32	19.73	35.04	46.00	10.96	QP
5	592.60	19.48	3.36	15.07	37.91	46.00	8.09	QP
6	795.33	22.03	3.92	14.96	40.91	46.00	5.09	QP



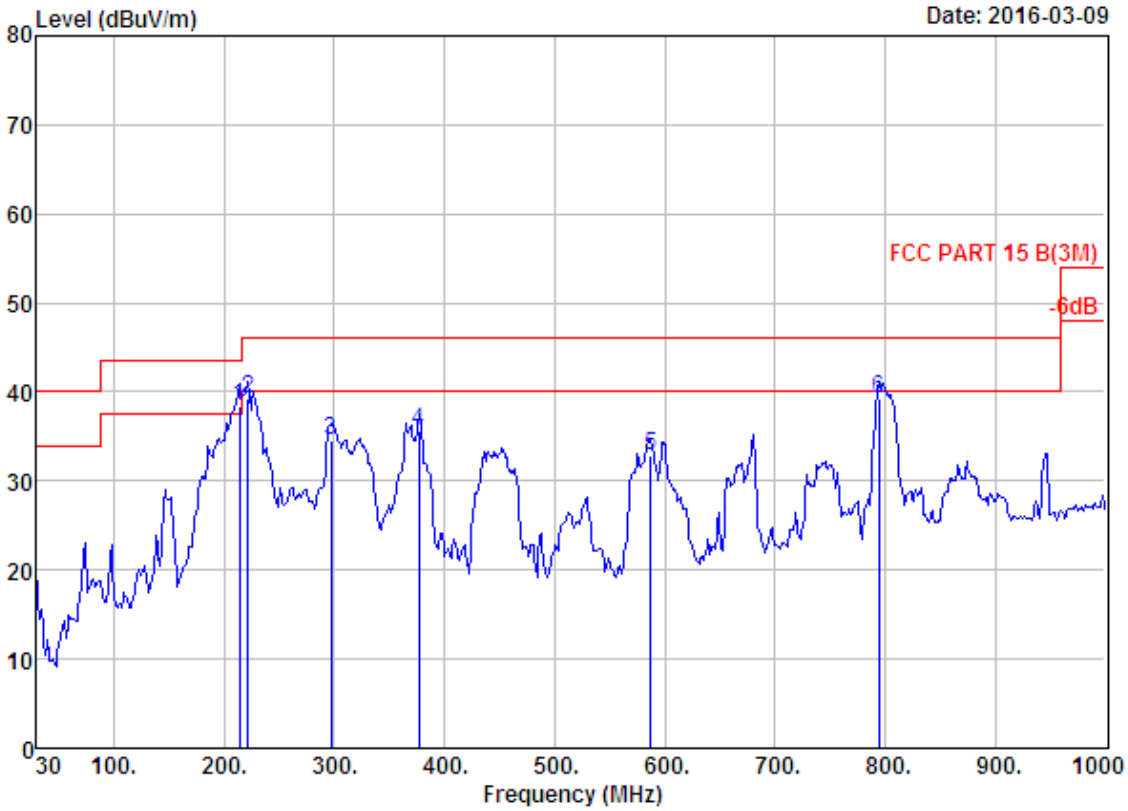
Site no. : 966 1# chamber Data no. : 203
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH7 2442TX

	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	16.06	35.22	40.00	4.78	QP
2	177.44	8.97	1.67	24.57	35.21	43.50	8.29	QP
3	216.24	8.80	1.95	24.34	35.09	46.00	10.91	QP
4	299.66	13.01	2.38	19.72	35.11	46.00	10.89	QP
5	591.63	19.46	3.37	13.93	36.76	46.00	9.24	QP
6	795.33	22.03	3.92	15.40	41.35	46.00	4.65	QP



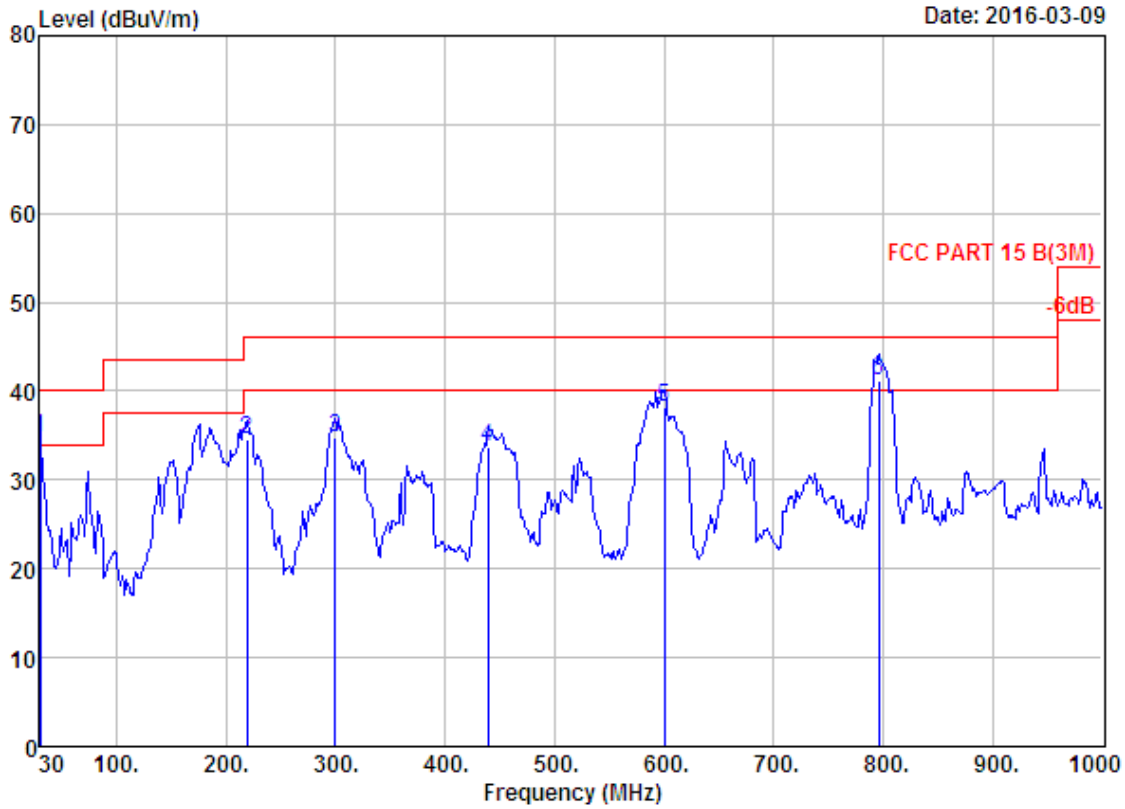
Site no. : 966 1# chamber Data no. : 204
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH7 2442TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	194.90	7.72	1.78	23.06	32.56	43.50	10.94	QP
2	216.24	8.80	1.95	28.40	39.15	46.00	6.85	QP
3	306.45	13.13	2.35	20.62	36.10	46.00	9.90	QP
4	367.56	14.76	2.68	16.90	34.34	46.00	11.66	QP
5	587.75	19.44	3.40	10.66	33.50	46.00	12.50	QP
6	798.24	22.03	3.92	10.58	36.53	46.00	9.47	QP



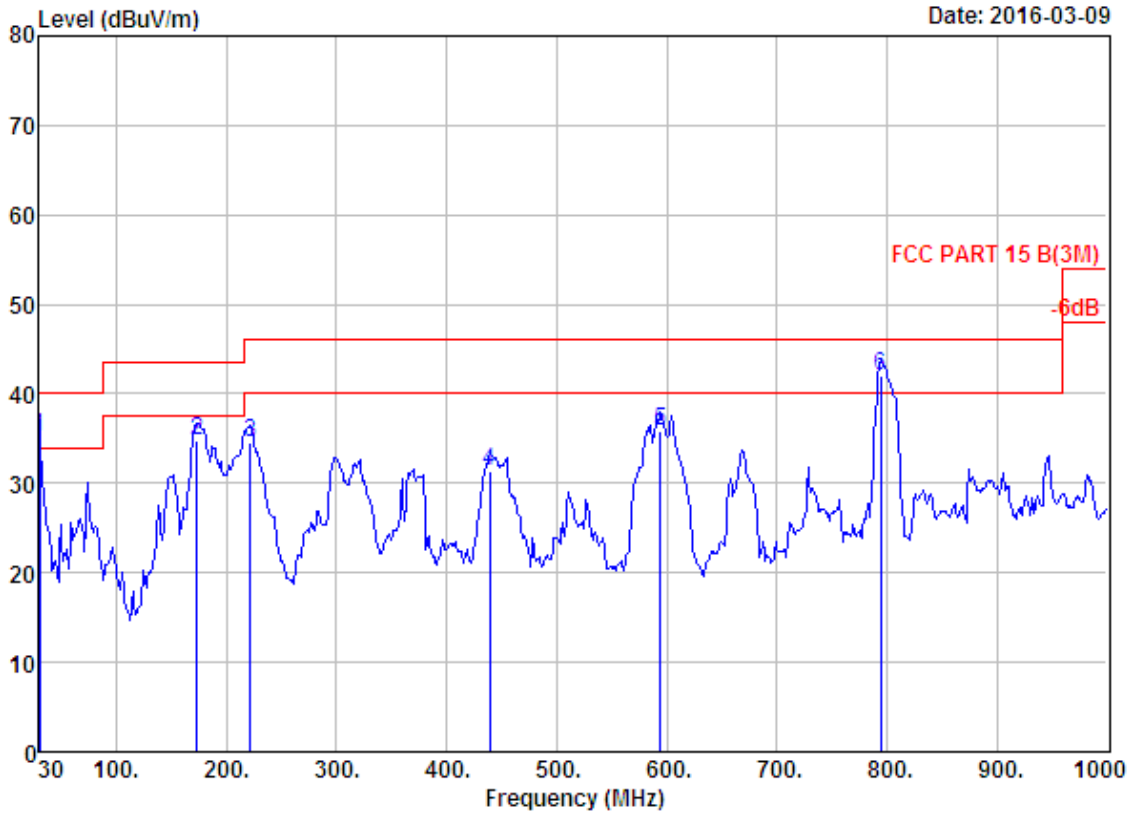
Site no. : 966 1# chamber Data no. : 205
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	214.30	8.65	1.96	27.88	38.49	43.50	5.01	QP
2	222.06	9.31	2.01	27.88	39.20	46.00	6.80	QP
3	296.75	12.99	2.32	19.20	34.51	46.00	11.49	QP
4	377.26	14.96	2.62	17.97	35.55	46.00	10.45	QP
5	587.75	19.44	3.40	10.00	32.84	46.00	13.16	QP
6	794.36	22.04	3.89	13.34	39.27	46.00	6.73	QP



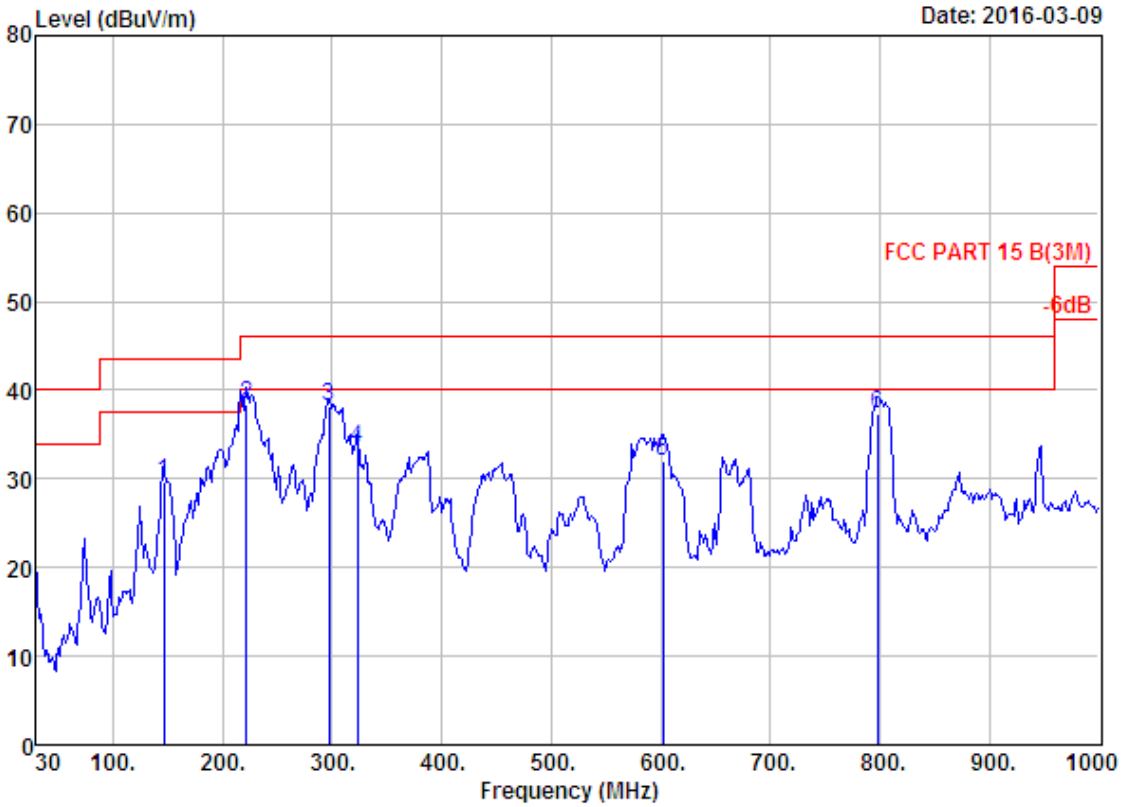
Site no. : 966 1# chamber Data no. : 206
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	15.68	34.84	40.00	5.16	QP
2	219.15	9.10	1.94	23.61	34.65	46.00	11.35	QP
3	299.66	13.01	2.38	19.46	34.85	46.00	11.15	QP
4	439.34	16.23	2.89	14.66	33.78	46.00	12.22	QP
5	600.36	19.60	3.44	15.09	38.13	46.00	7.87	QP
6	796.30	22.03	3.92	15.14	41.09	46.00	4.91	QP



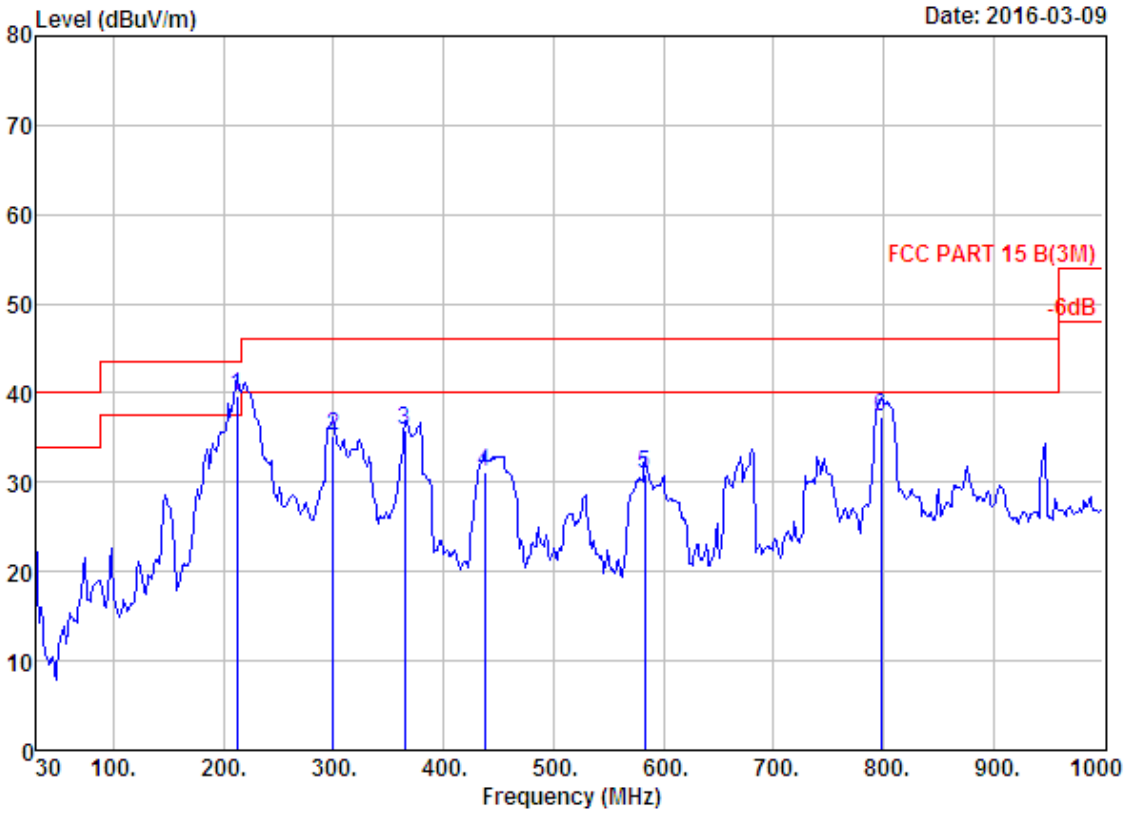
Site no. : 966 1# chamber Data no. : 207
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	16.02	35.18	40.00	4.82	QP
2	173.56	9.03	1.68	24.07	34.78	43.50	8.72	QP
3	222.06	9.31	2.01	23.20	34.52	46.00	11.48	QP
4	439.34	16.23	2.89	12.34	31.46	46.00	14.54	QP
5	594.54	19.51	3.33	13.03	35.87	46.00	10.13	QP
6	794.36	22.04	3.89	16.01	41.94	46.00	4.06	QP



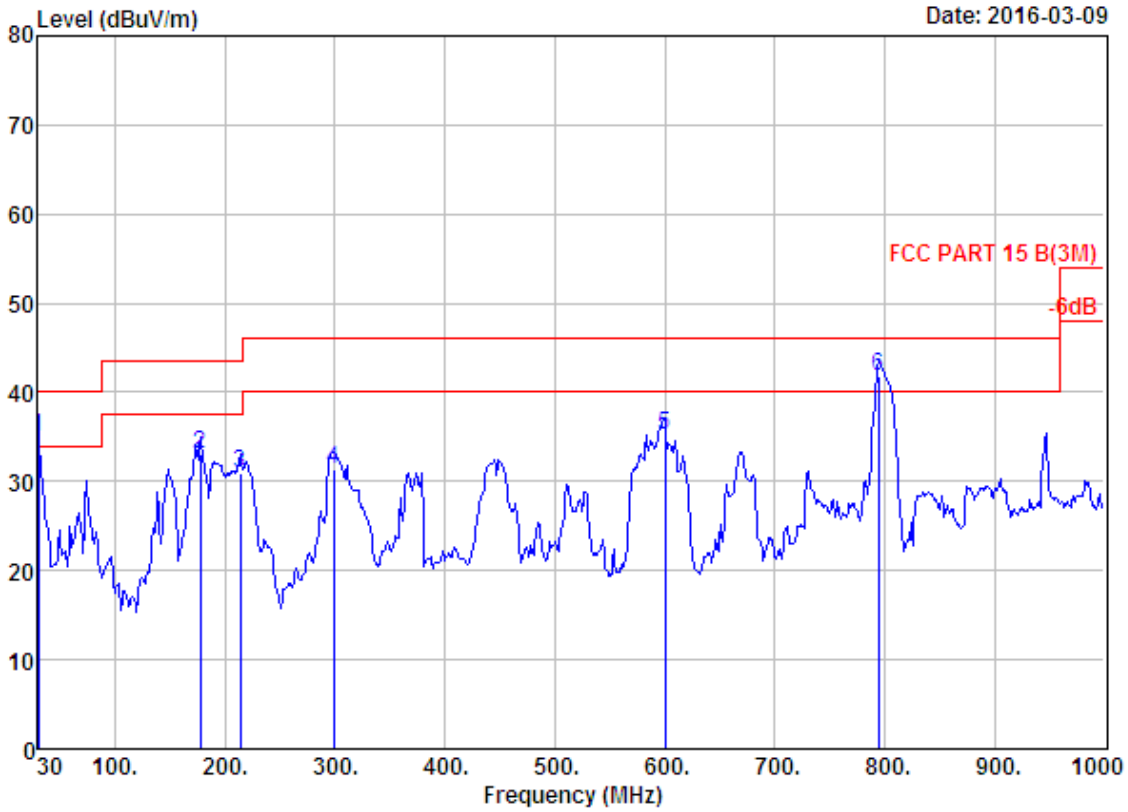
Site no. : 966 1# chamber Data no. : 208
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	16.90	29.63	43.50	13.87	QP
2	222.06	9.31	2.01	26.98	38.30	46.00	7.70	QP
3	296.75	12.99	2.32	22.79	38.10	46.00	7.90	QP
4	322.94	13.65	2.43	17.41	33.49	46.00	12.51	QP
5	602.30	19.66	3.41	8.90	31.97	46.00	14.03	QP
6	798.24	22.03	3.92	11.32	37.27	46.00	8.73	QP



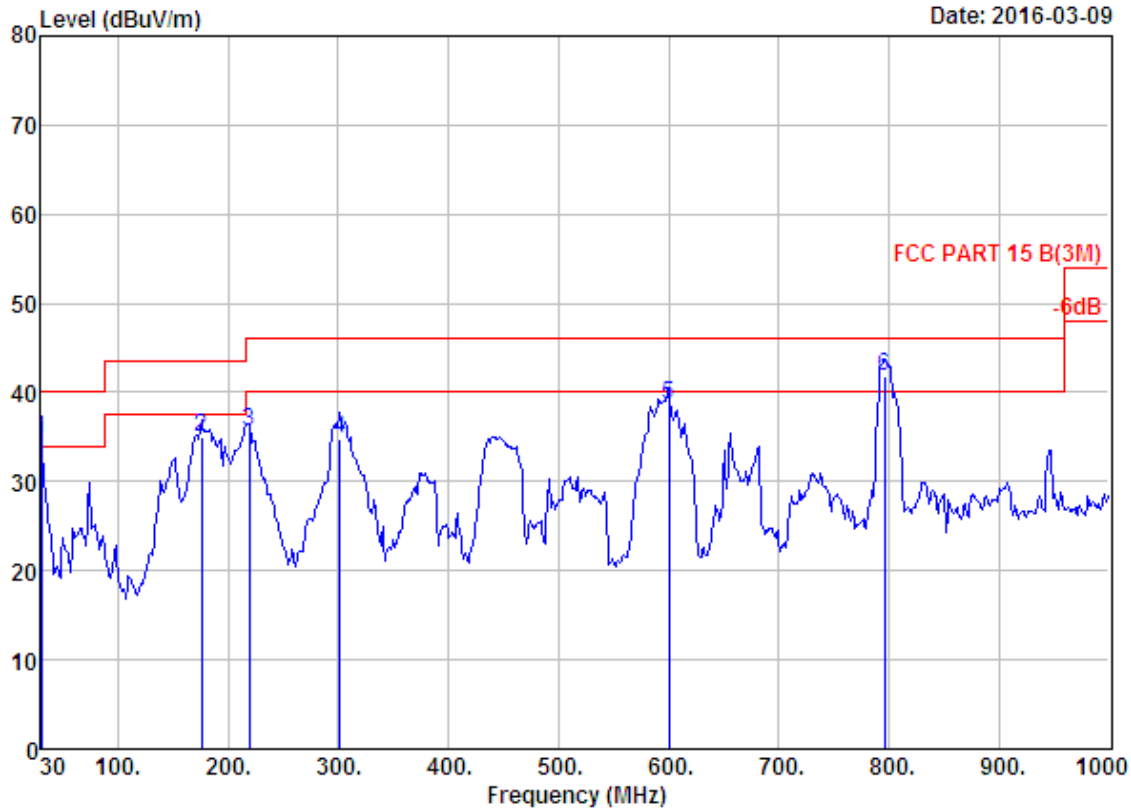
Site no. : 966 1# chamber Data no. : 209
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	212.36	8.56	1.91	29.30	39.77	43.50	3.73	QP
2	299.66	13.01	2.38	19.84	35.23	46.00	10.77	QP
3	364.65	14.65	2.63	18.61	35.89	46.00	10.11	QP
4	437.40	16.20	2.85	12.13	31.18	46.00	14.82	QP
5	582.90	19.48	3.38	8.10	30.96	46.00	15.04	QP
6	798.24	22.03	3.92	11.44	37.39	46.00	8.61	QP



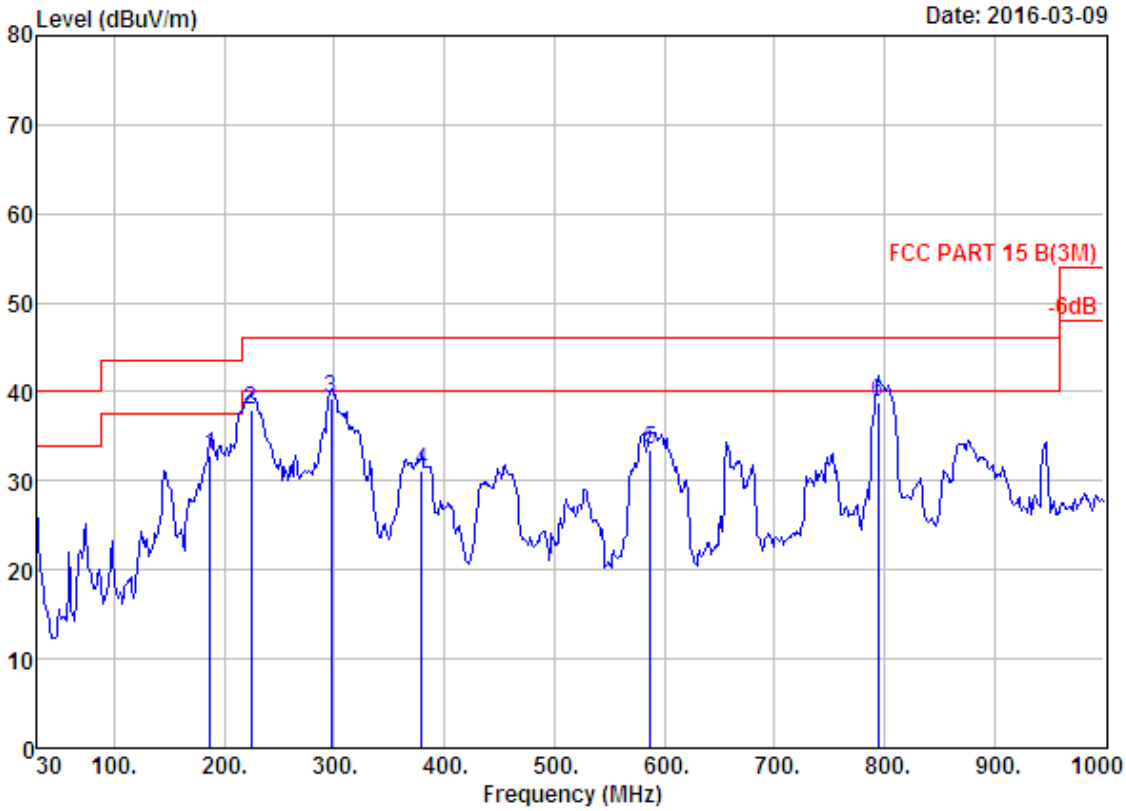
Site no. : 966 1# chamber Data no. : 210
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	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	15.87	35.03	40.00	4.97	QP
2	177.44	8.97	1.67	22.44	33.08	43.50	10.42	QP
3	214.30	8.65	1.96	20.40	31.01	43.50	12.49	QP
4	298.69	13.00	2.40	15.97	31.37	46.00	14.63	QP
5	600.36	19.60	3.44	12.15	35.19	46.00	10.81	QP
6	794.36	22.04	3.89	15.79	41.72	46.00	4.28	QP



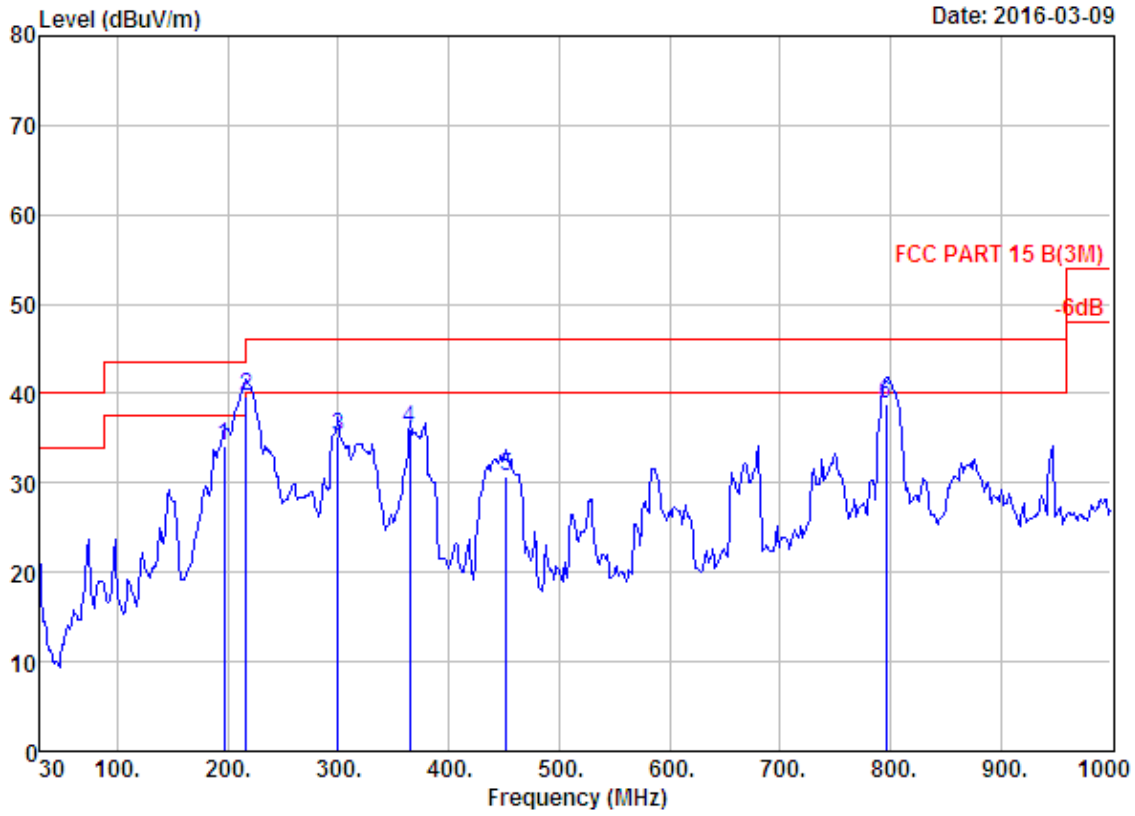
Site no. : 966 1# chamber Data no. : 211
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	15.55	34.71	40.00	5.29	QP
2	175.50	8.98	1.68	24.31	34.97	43.50	8.53	QP
3	219.15	9.10	1.94	24.54	35.58	46.00	10.42	QP
4	301.60	13.04	2.39	19.43	34.86	46.00	11.14	QP
5	600.36	19.60	3.44	15.54	38.58	46.00	7.42	QP
6	796.30	22.03	3.92	15.87	41.82	46.00	4.18	QP



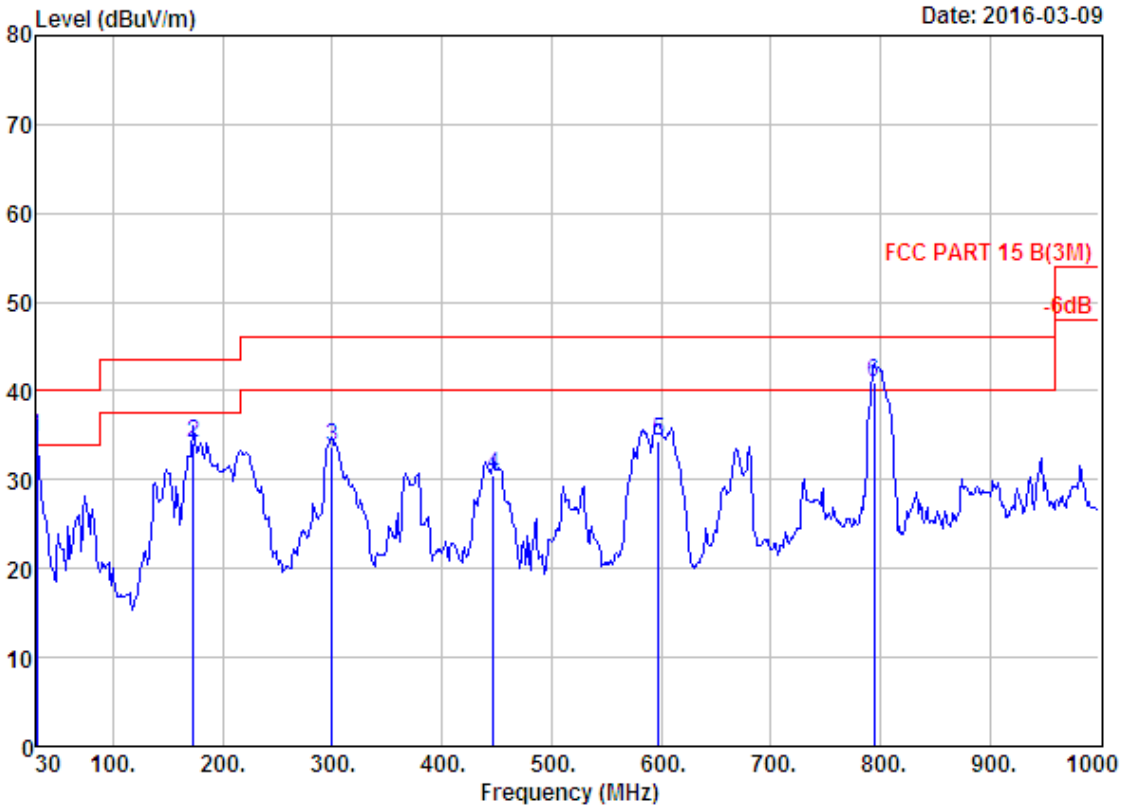
Site no. : 966 1# chamber Data no. : 212
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	187.14	8.26	1.84	22.77	32.87	43.50	10.63	QP
2	224.00	9.42	2.01	26.49	37.92	46.00	8.08	QP
3	296.75	12.99	2.32	24.03	39.34	46.00	6.66	QP
4	379.20	14.99	2.64	13.60	31.23	46.00	14.77	QP
5	587.75	19.44	3.40	10.73	33.57	46.00	12.43	QP
6	794.36	22.04	3.89	12.83	38.76	46.00	7.24	QP



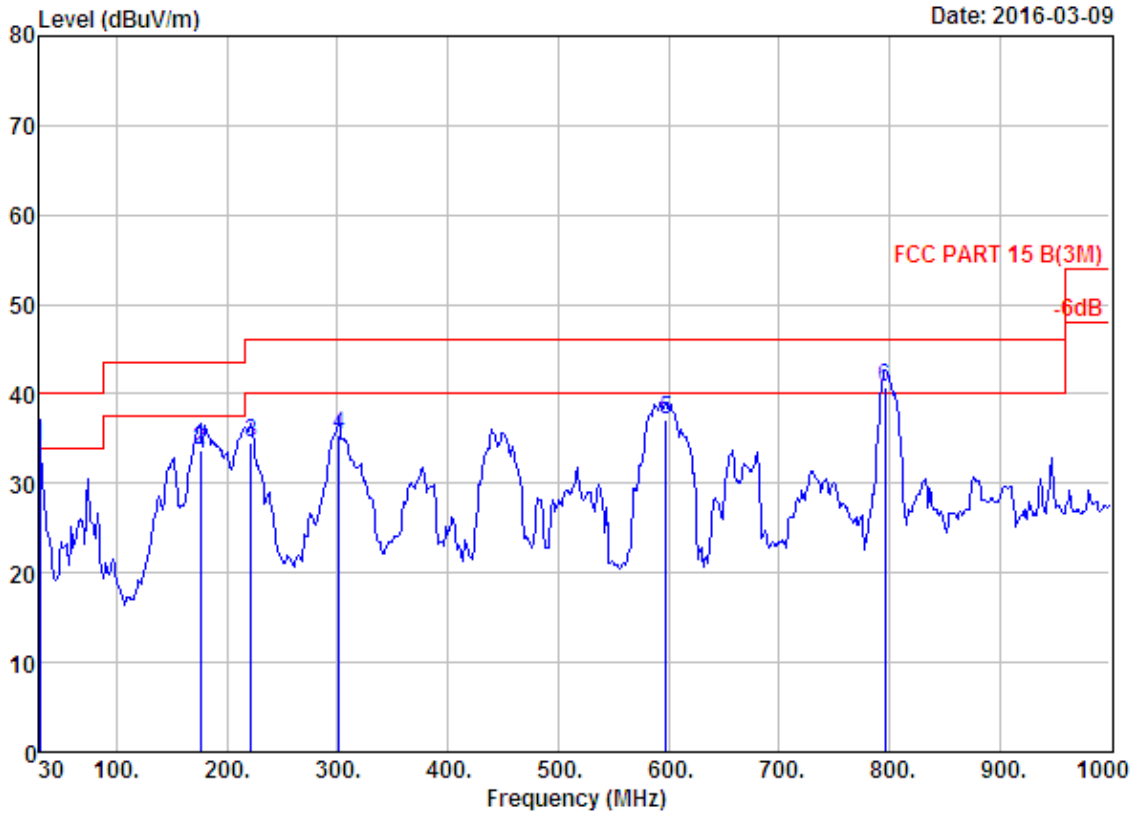
Site no. : 966 1# chamber Data no. : 213
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	196.84	7.72	1.81	24.69	34.22	43.50	9.28	QP
2	216.24	8.80	1.95	28.89	39.64	46.00	6.36	QP
3	299.66	13.01	2.38	19.89	35.28	46.00	10.72	QP
4	364.65	14.65	2.63	18.70	35.98	46.00	10.02	QP
5	451.95	16.54	2.95	11.14	30.63	46.00	15.37	QP
6	796.30	22.03	3.92	12.82	38.77	46.00	7.23	QP



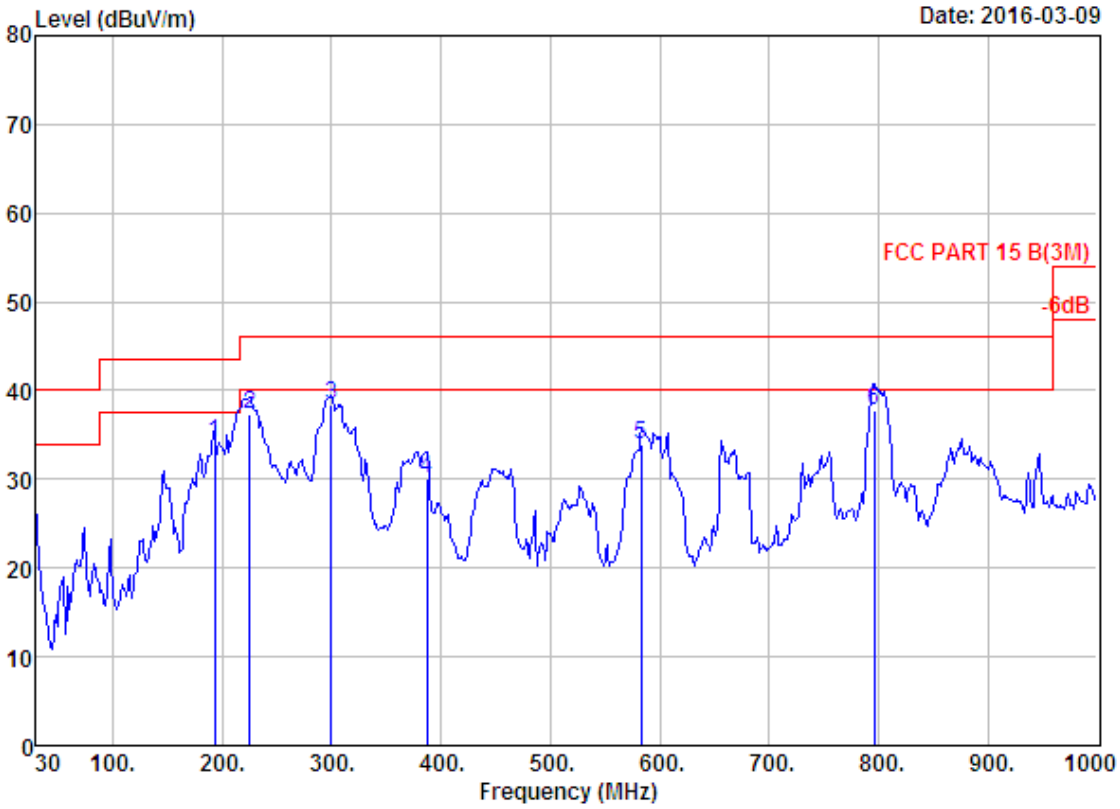
Site no. : 966 1# chamber Data no. : 214
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	15.55	34.71	40.00	5.29	QP
2	173.56	9.03	1.68	23.40	34.11	43.50	9.39	QP
3	299.66	13.01	2.38	18.35	33.74	46.00	12.26	QP
4	447.10	16.40	2.98	11.10	30.48	46.00	15.52	QP
5	597.45	19.55	3.39	11.33	34.27	46.00	11.73	QP
6	794.36	22.04	3.89	15.13	41.06	46.00	4.94	QP



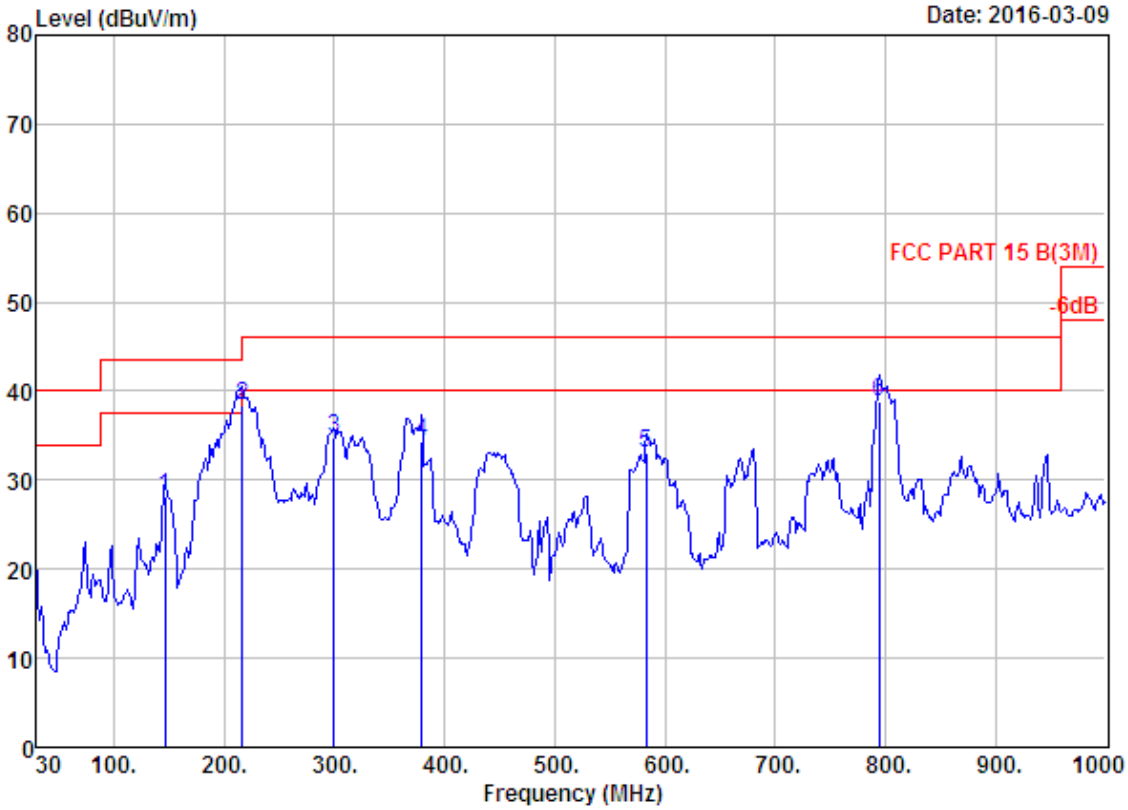
Site no. : 966 1# chamber Data no. : 215
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	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	14.93	34.09	40.00	5.91	QP
2	175.50	8.98	1.68	22.96	33.62	43.50	9.88	QP
3	222.06	9.31	2.01	23.32	34.64	46.00	11.36	QP
4	301.60	13.04	2.39	20.01	35.44	46.00	10.56	QP
5	597.45	19.55	3.39	14.15	37.09	46.00	8.91	QP
6	796.30	22.03	3.92	14.78	40.73	46.00	5.27	QP



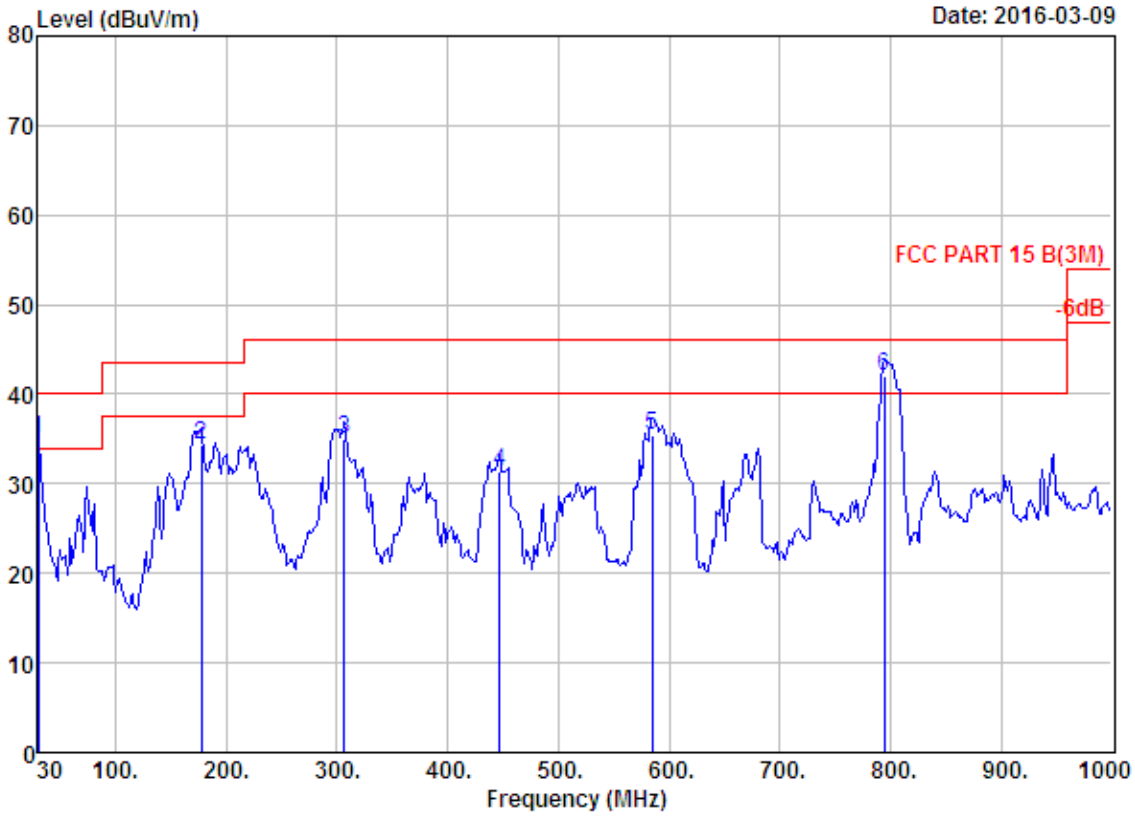
Site no. : 966 1# chamber Data no. : 216
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	192.96	7.85	1.77	24.52	34.14	43.50	9.36	QP
2	224.97	9.48	2.00	25.81	37.29	46.00	8.71	QP
3	299.66	13.01	2.38	23.03	38.42	46.00	7.58	QP
4	386.96	15.42	2.65	12.07	30.14	46.00	15.86	QP
5	582.90	19.48	3.38	10.97	33.83	46.00	12.17	QP
6	796.30	22.03	3.92	11.74	37.69	46.00	8.31	QP



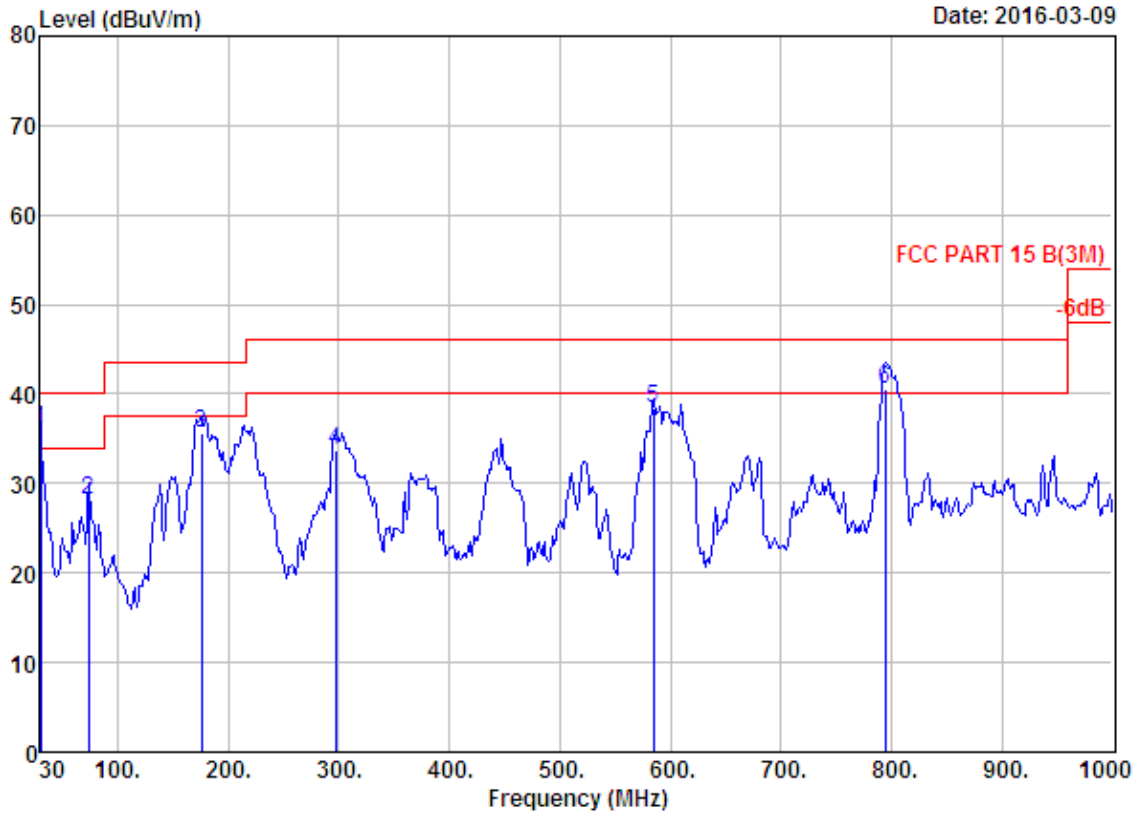
Site no. : 966 1# chamber Data no. : 217
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	15.38	28.11	43.50	15.39	QP
2	216.24	8.80	1.95	27.71	38.46	46.00	7.54	QP
3	299.66	13.01	2.38	19.44	34.83	46.00	11.17	QP
4	379.20	14.99	2.64	16.75	34.38	46.00	11.62	QP
5	582.90	19.48	3.38	10.26	33.12	46.00	12.88	QP
6	794.36	22.04	3.89	12.80	38.73	46.00	7.27	QP



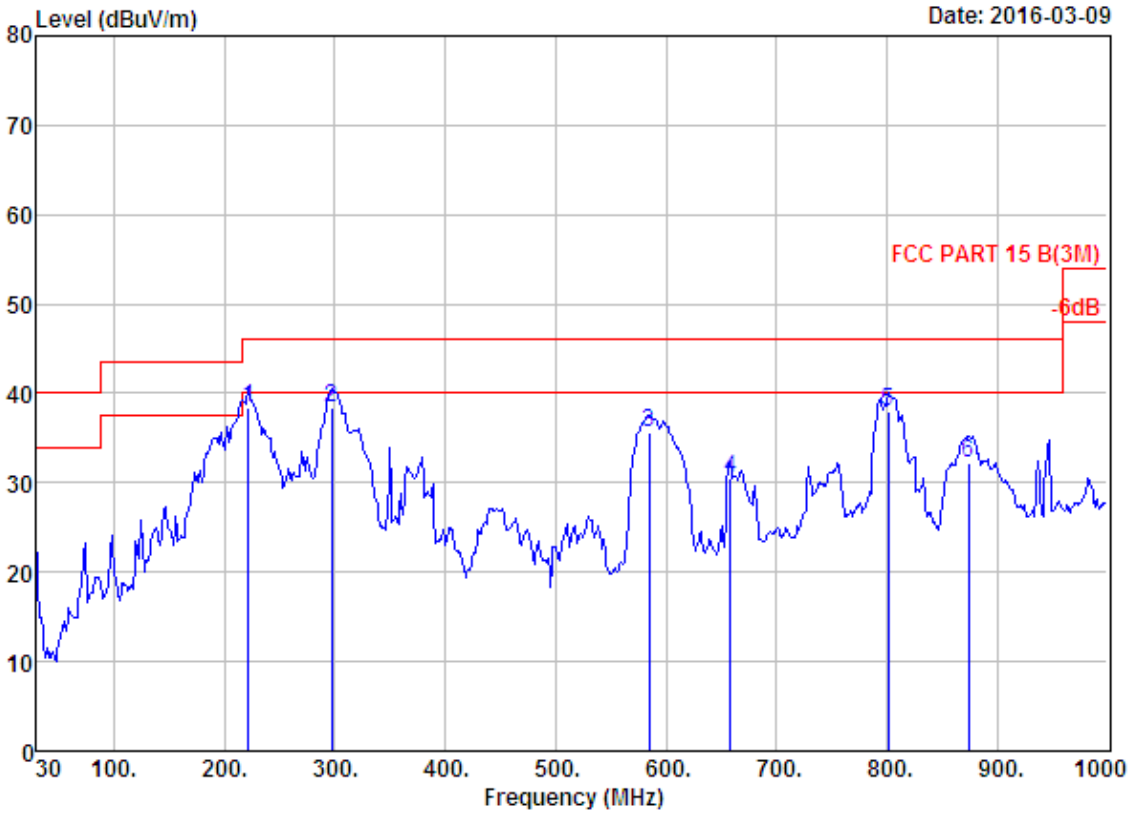
Site no. : 966 1# chamber Data no. : 218
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	15.92	35.08	40.00	4.92	QP
2	177.44	8.97	1.67	23.66	34.30	43.50	9.20	QP
3	306.45	13.13	2.35	19.50	34.98	46.00	11.02	QP
4	447.10	16.40	2.98	11.89	31.27	46.00	14.73	QP
5	584.84	19.47	3.37	12.51	35.35	46.00	10.65	QP
6	794.36	22.04	3.89	16.00	41.93	46.00	4.07	QP



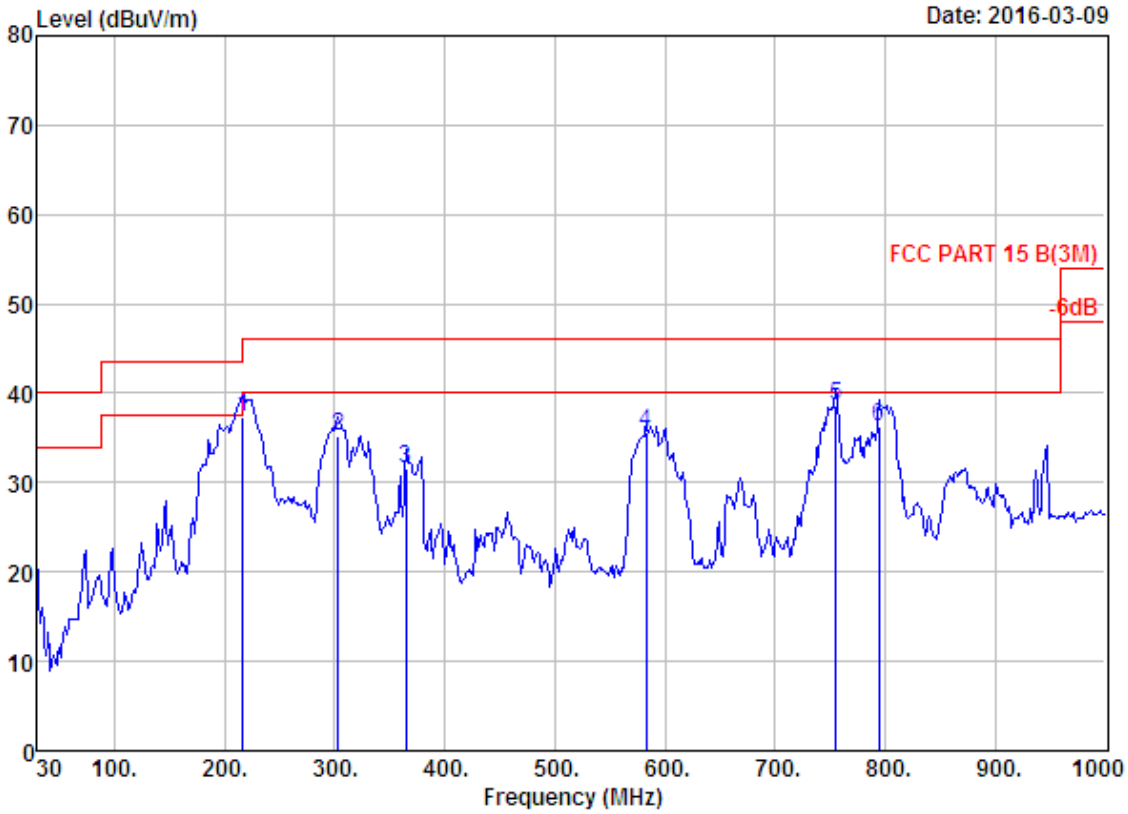
Site no. : 966 1# chamber Data no. : 219
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	16.82	35.98	40.00	4.02	QP
2	73.65	6.22	1.15	20.78	28.15	40.00	11.85	QP
3	175.50	8.98	1.68	24.88	35.54	43.50	7.96	QP
4	296.75	12.99	2.32	18.47	33.78	46.00	12.22	QP
5	584.84	19.47	3.37	15.65	38.49	46.00	7.51	QP
6	794.36	22.04	3.89	14.69	40.62	46.00	5.38	QP



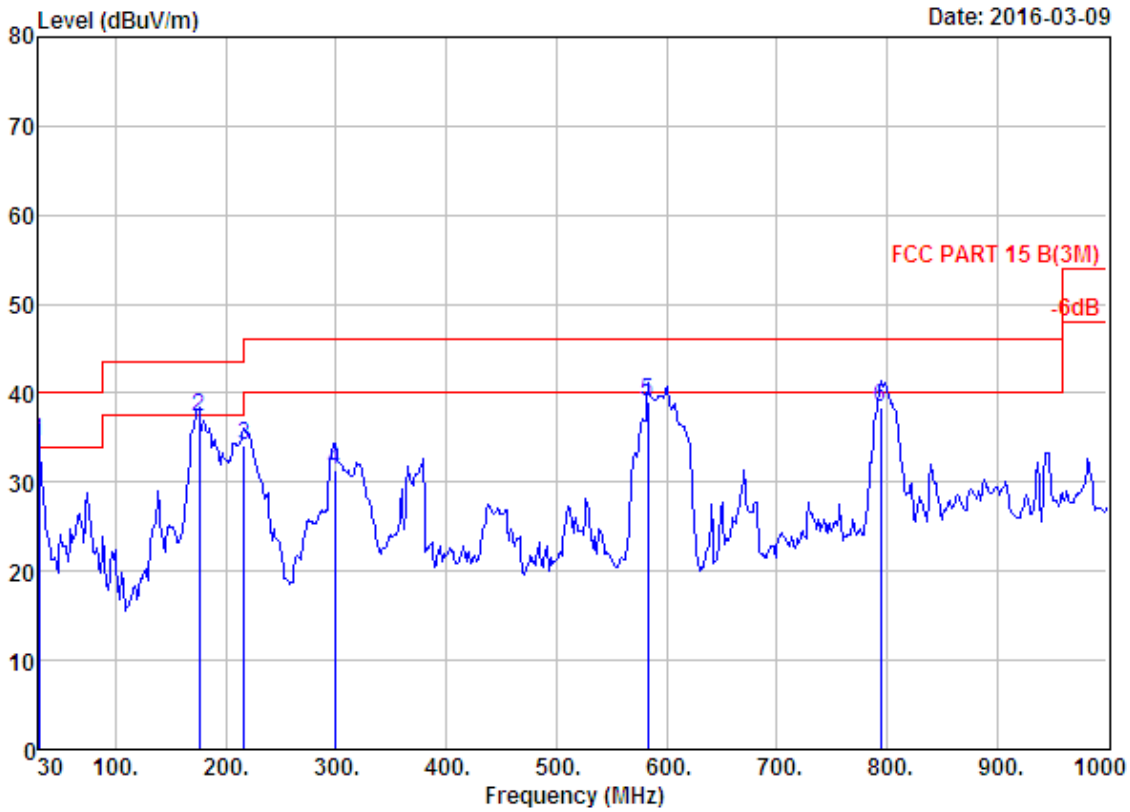
Site no. : 966 1# chamber Data no. : 220
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	222.06	9.31	2.01	27.11	38.43	46.00	7.57	QP
2	296.75	12.99	2.32	23.12	38.43	46.00	7.57	QP
3	584.84	19.47	3.37	12.74	35.58	46.00	10.42	QP
4	658.56	20.06	3.61	6.80	30.47	46.00	15.53	QP
5	801.15	22.07	3.83	12.10	38.00	46.00	8.00	QP
6	873.90	22.75	3.86	5.64	32.25	46.00	13.75	QP



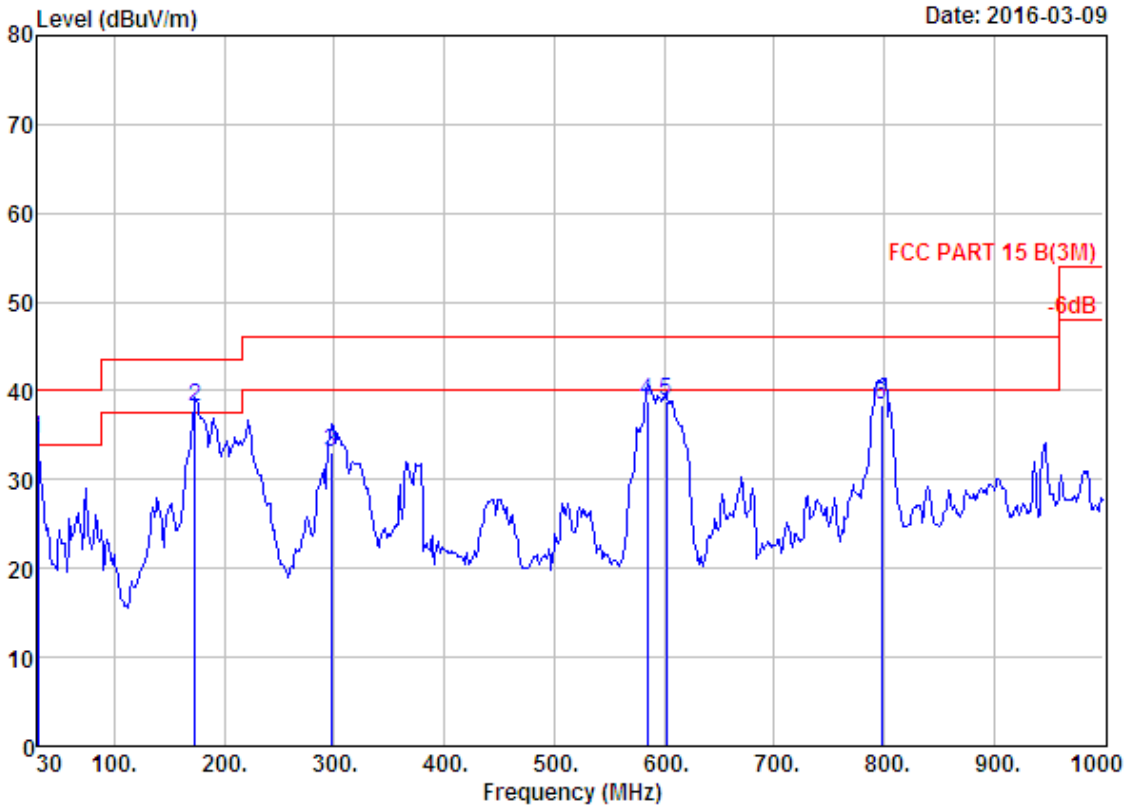
Site no. : 966 1# chamber Data no. : 221
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH5 2442TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	216.24	8.80	1.95	26.65	37.40	46.00	8.60	QP
2	303.54	13.08	2.43	19.79	35.30	46.00	10.70	QP
3	364.65	14.65	2.63	14.40	31.68	46.00	14.32	QP
4	582.90	19.48	3.38	12.77	35.63	46.00	10.37	QP
5	755.56	22.10	3.87	12.64	38.61	46.00	7.39	QP
6	794.36	22.04	3.89	10.41	36.34	46.00	9.66	QP



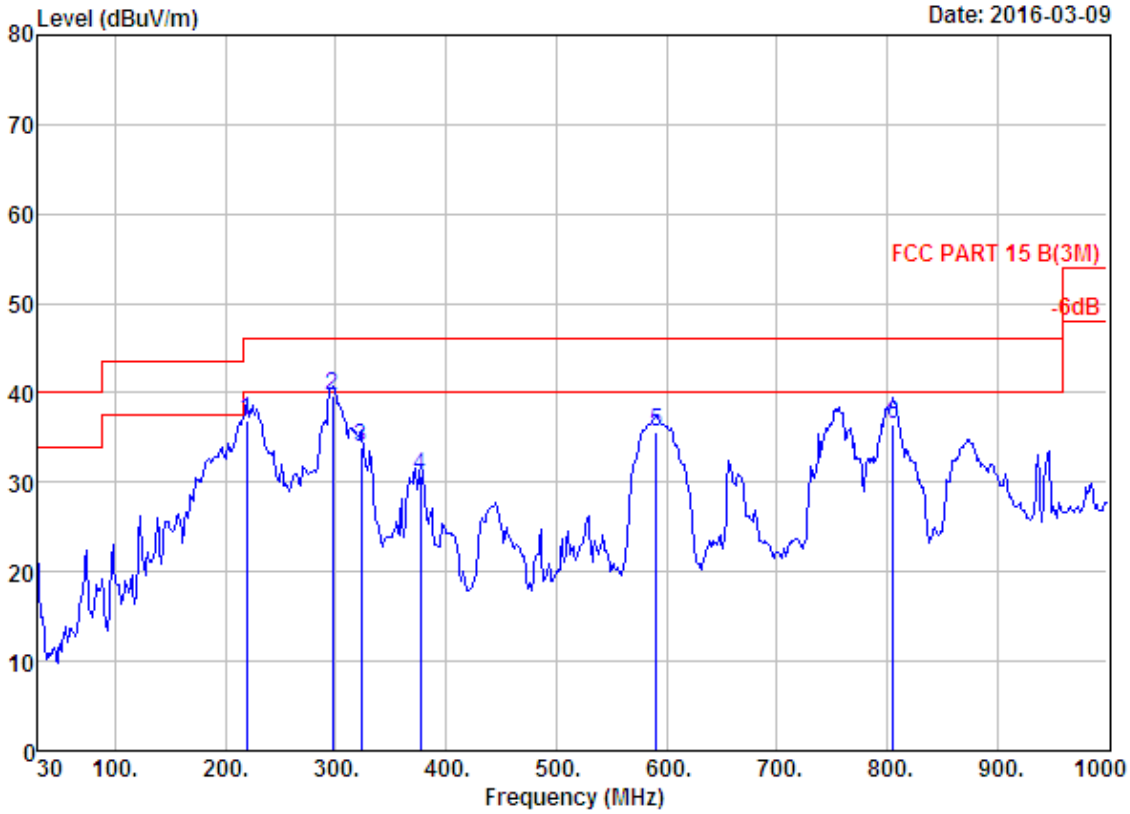
Site no. : 966 1# chamber Data no. : 222
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH5 2442TX

	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	15.37	34.53	40.00	5.47	QP
2	175.50	8.98	1.68	26.76	37.42	43.50	6.08	QP
3	216.24	8.80	1.95	23.34	34.09	46.00	11.91	QP
4	298.69	13.00	2.40	15.94	31.34	46.00	14.66	QP
5	582.90	19.48	3.38	16.25	39.11	46.00	6.89	QP
6	794.36	22.04	3.89	12.50	38.43	46.00	7.57	QP



Site no. : 966 1# chamber Data no. : 223
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

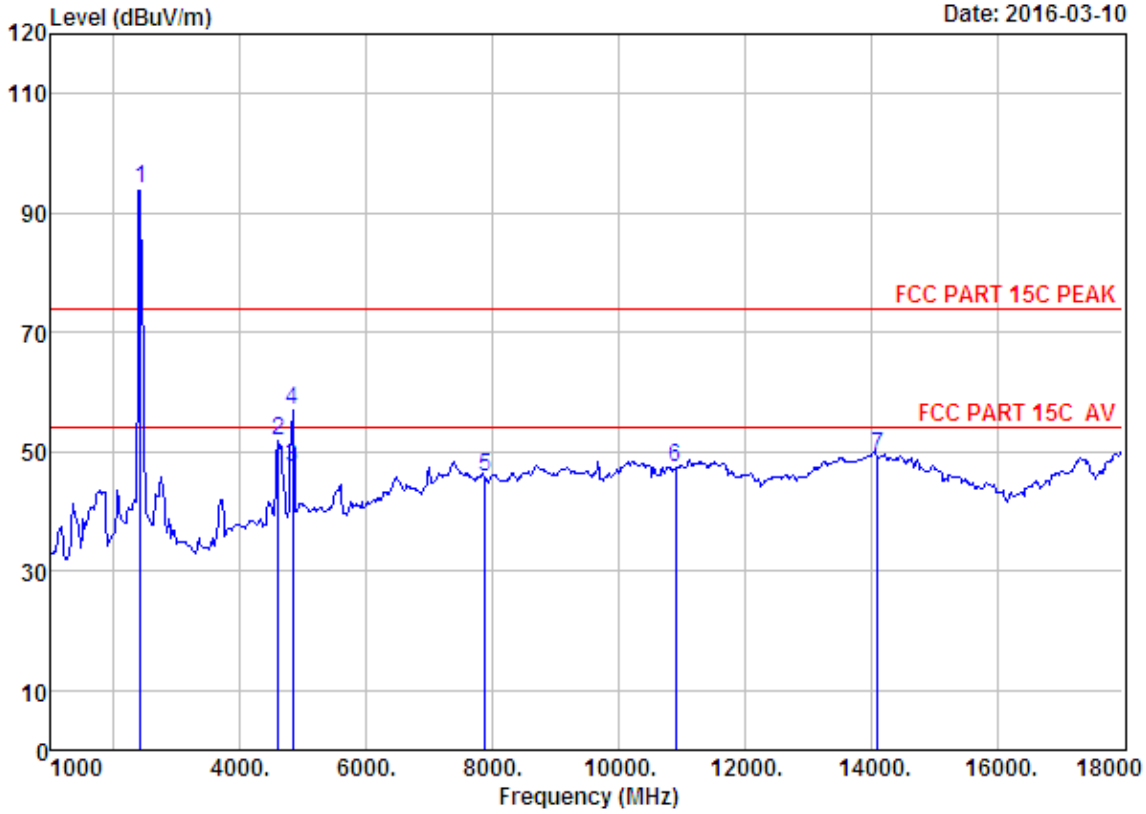
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	15.35	34.51	40.00	5.49	QP
2	173.56	9.03	1.68	27.51	38.22	43.50	5.28	QP
3	296.75	12.99	2.32	17.86	33.17	46.00	12.83	QP
4	584.84	19.47	3.37	16.01	38.85	46.00	7.15	QP
5	602.30	19.66	3.41	15.83	38.90	46.00	7.10	QP
6	798.24	22.03	3.92	12.37	38.32	46.00	7.68	QP



Site no. : 966 1# chamber Data no. : 224
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	219.15	9.10	1.94	25.90	36.94	46.00	9.06	QP
2	296.75	12.99	2.32	24.35	39.66	46.00	6.34	QP
3	322.94	13.65	2.43	17.76	33.84	46.00	12.16	QP
4	377.26	14.96	2.62	13.17	30.75	46.00	15.25	QP
5	590.66	19.45	3.37	12.73	35.55	46.00	10.45	QP
6	806.00	22.24	3.84	10.34	36.42	46.00	9.58	QP

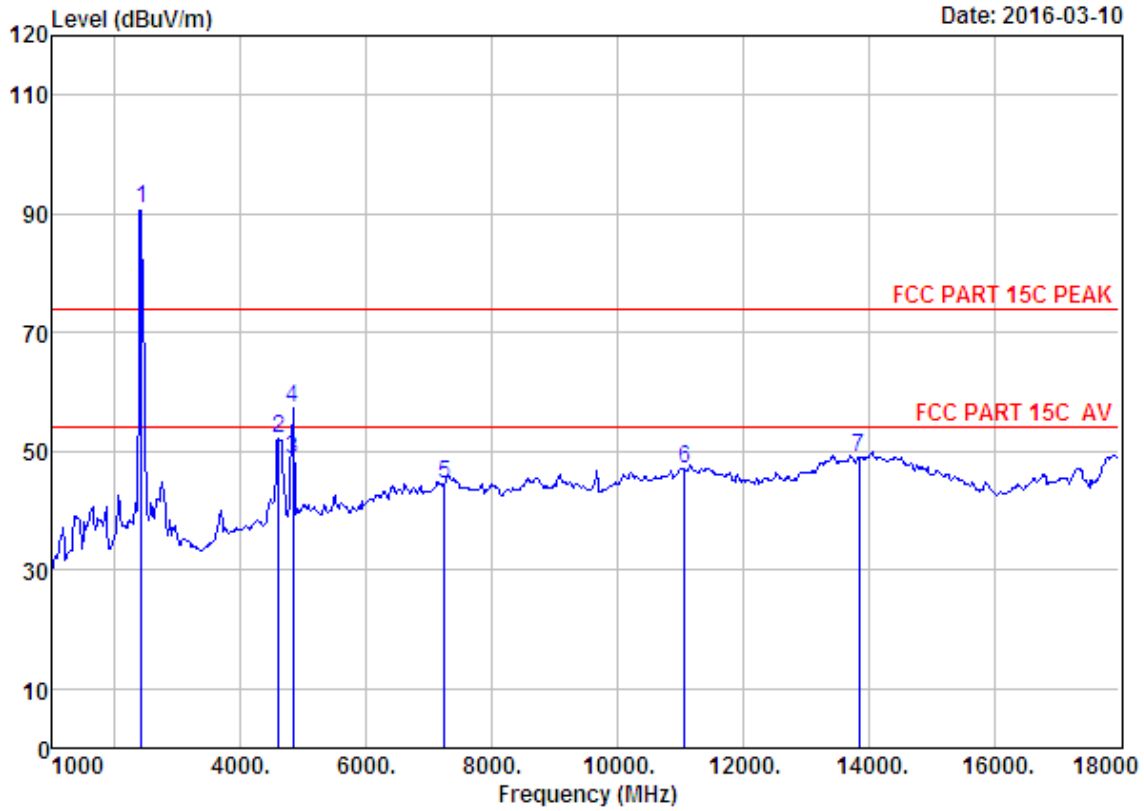
1000-18000 MHz



Site no. : 1# 966 chamber Data no. : 227
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH1 2412TX

	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	2412.00	27.60	6.64	34.64	94.36	93.96	74.00	-19.96	Peak
2	4604.00	30.80	10.87	35.59	45.86	51.94	74.00	22.06	Peak
3	4824.00	31.28	11.84	35.66	40.04	47.50	54.00	6.50	Average
4	4824.00	31.28	11.84	35.66	49.34	56.80	74.00	17.20	Peak
5	7885.00	36.78	11.45	35.09	32.54	45.68	74.00	28.32	Peak
6	10911.00	39.43	11.29	34.08	30.58	47.22	74.00	26.78	Peak
7	14107.00	41.55	10.91	33.16	29.89	49.19	74.00	24.81	Peak

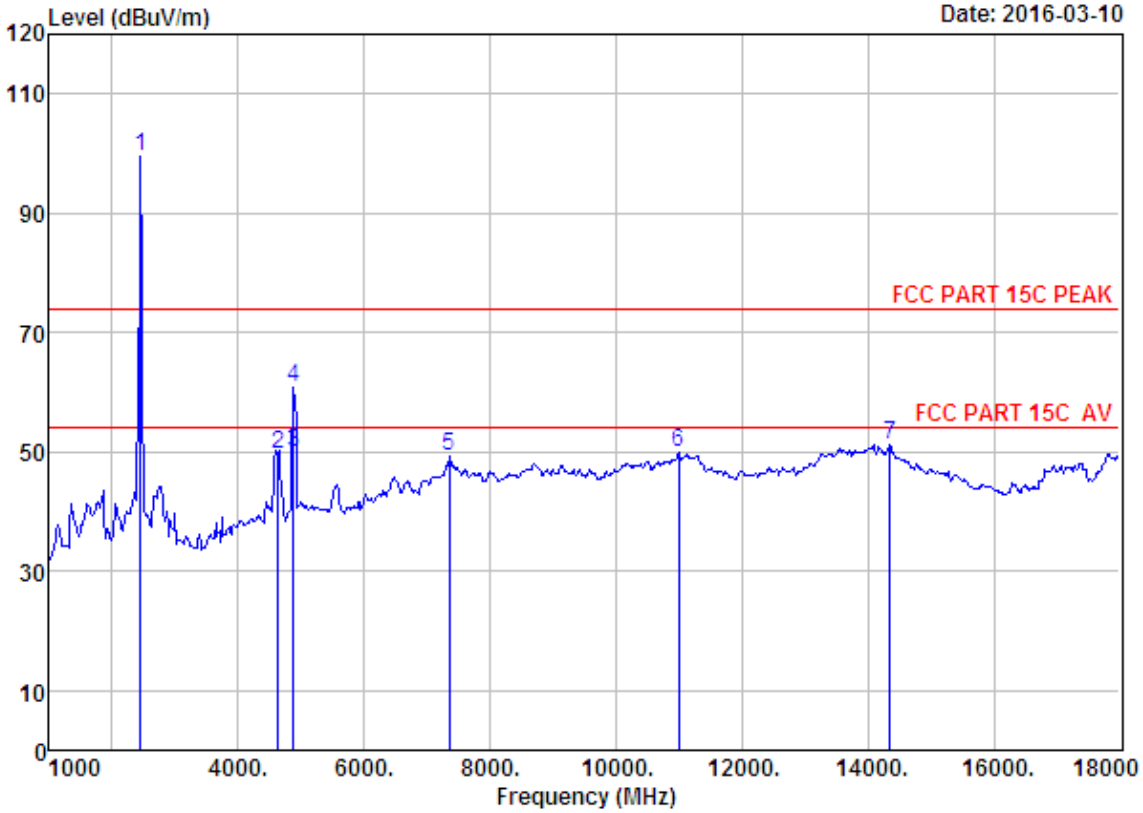
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 228
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH1 2412TX

	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	2412.00	27.60	6.64	34.64	91.14	90.74	74.00	-16.74	Peak
2	4604.00	30.80	10.87	35.59	45.93	52.01	74.00	21.99	Peak
3	4824.00	31.28	11.84	35.66	41.04	48.50	54.00	5.50	Average
4	4824.00	31.28	11.84	35.66	49.95	57.41	74.00	16.59	Peak
5	7239.00	36.53	11.55	33.99	30.43	44.52	74.00	29.48	Peak
6	11064.00	39.48	11.24	33.83	30.11	47.00	74.00	27.00	Peak
7	13852.00	41.07	11.08	33.06	29.95	49.04	74.00	24.96	Peak

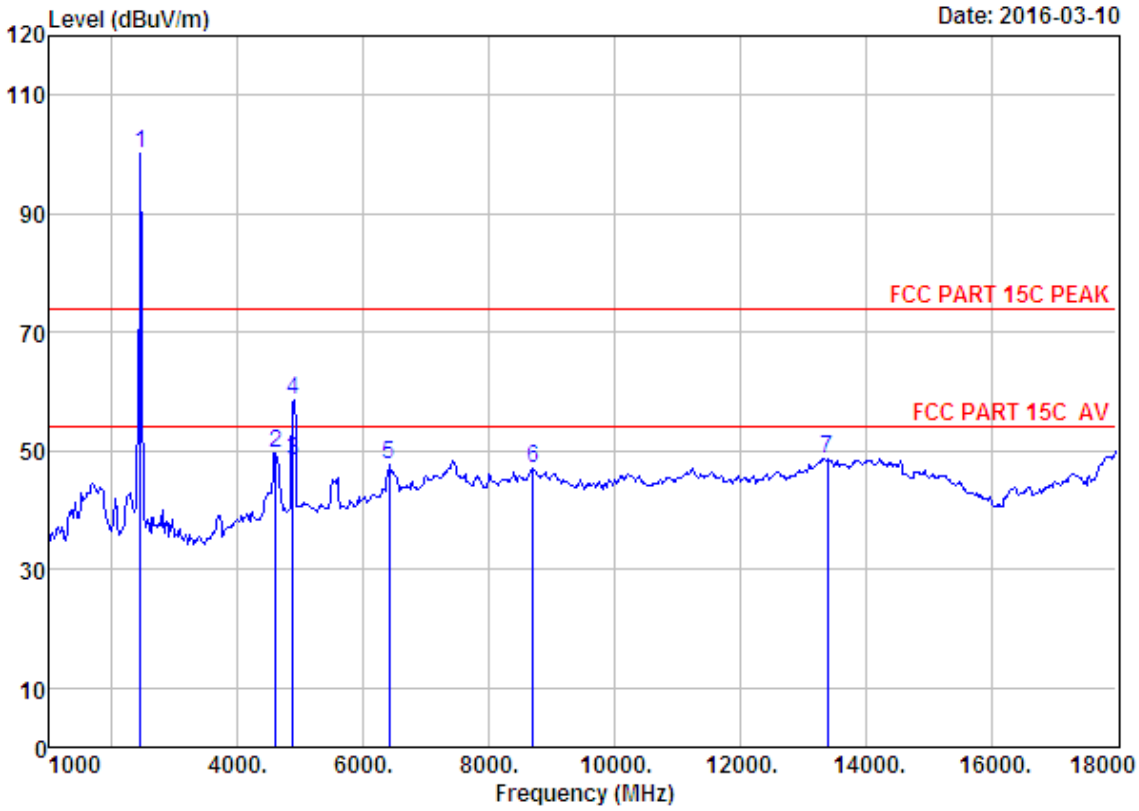
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.        : 1# 966 chamber              Data no.  : 229
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             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11b CH7 2442TX
```

	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	2442.00	27.60	6.67	34.85	100.04	99.46	74.00	-25.46	Peak
2	4638.00	30.90	11.02	35.58	43.27	49.61	74.00	24.39	Peak
3	4884.00	31.37	12.07	35.82	42.30	49.92	54.00	4.08	Average
4	4884.00	31.37	12.07	35.82	53.07	60.69	74.00	13.31	Peak
5	7358.00	36.56	11.58	34.19	35.37	49.32	74.00	24.68	Peak
6	10996.00	39.52	11.29	34.11	33.30	50.00	74.00	24.00	Peak
7	14345.00	41.76	10.92	33.39	32.01	51.30	74.00	22.70	Peak

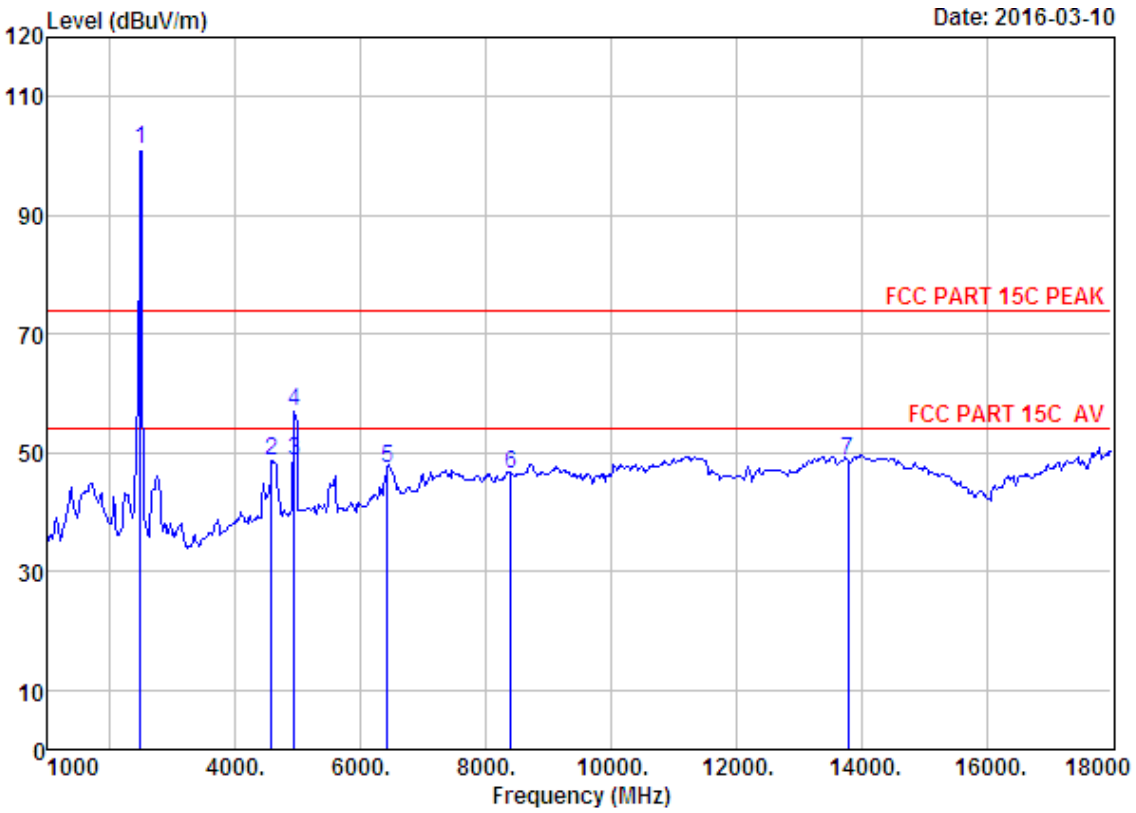
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 230
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH7 2442TX

	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	2442.00	27.60	6.67	34.85	100.76	100.18	74.00	-26.18	Peak
2	4604.00	30.80	10.87	35.59	43.57	49.65	74.00	24.35	Peak
3	4884.00	31.37	12.07	35.82	40.80	48.42	54.00	5.58	Average
4	4884.00	31.37	12.07	35.82	50.88	58.50	74.00	15.50	Peak
5	6406.00	33.99	12.21	35.35	36.72	47.57	74.00	26.43	Peak
6	8701.00	37.35	11.45	33.65	31.90	47.05	74.00	26.95	Peak
7	13393.00	39.83	11.49	32.88	30.05	48.49	74.00	25.51	Peak

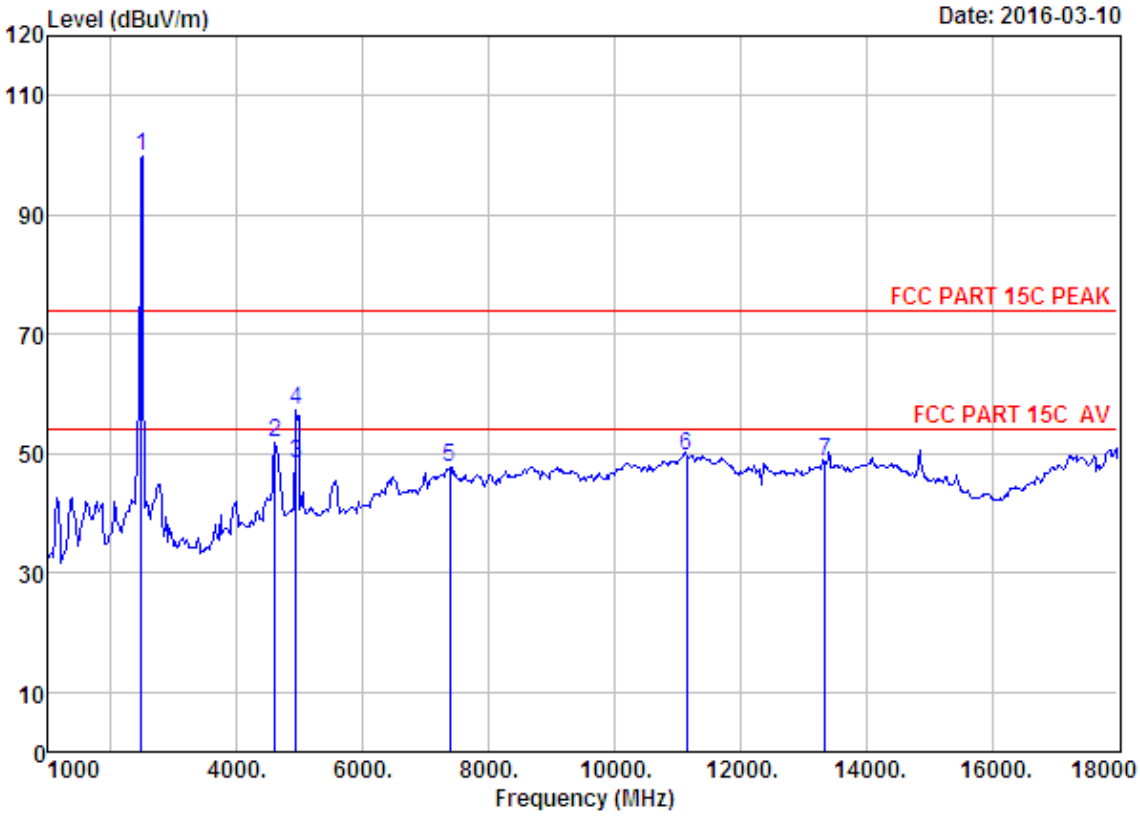
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 233
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	2472.00	27.58	6.71	35.11	101.81	100.99	74.00	-26.99	Peak
2	4570.00	30.74	10.72	35.61	42.81	48.66	74.00	25.34	Peak
3	4944.00	31.47	12.37	35.96	40.82	48.70	54.00	5.30	Average
4	4944.00	31.47	12.37	35.96	49.04	56.92	74.00	17.08	Peak
5	6423.00	34.03	12.21	35.32	36.31	47.23	74.00	26.77	Peak
6	8395.00	36.68	11.44	34.40	32.84	46.56	74.00	27.44	Peak
7	13784.00	40.88	11.16	33.05	29.65	48.64	74.00	25.36	Peak

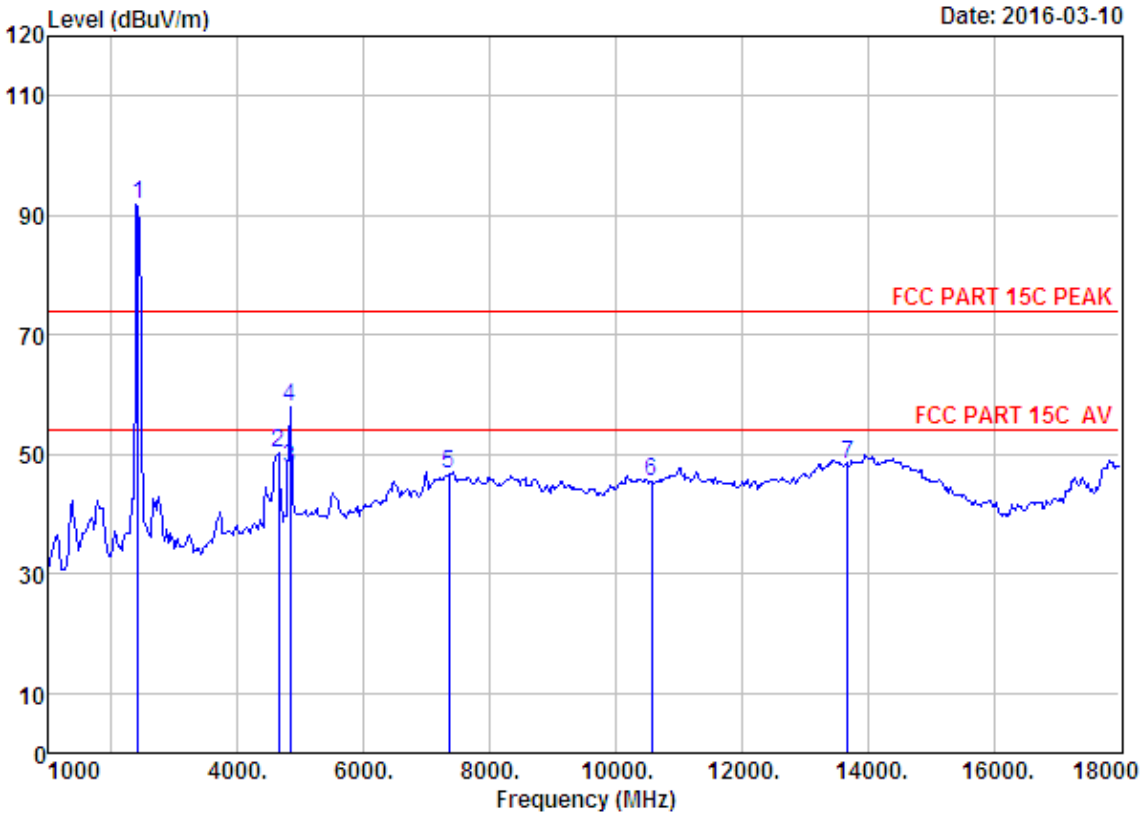
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 234
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	2472.00	27.58	6.71	35.11	100.80	99.98	74.00	-25.98	Peak
2	4604.00	30.80	10.87	35.59	45.76	51.84	74.00	22.16	Peak
3	4944.00	31.47	12.37	35.96	40.35	48.23	54.00	5.77	Average
4	4944.00	31.47	12.37	35.96	49.30	57.18	74.00	16.82	Peak
5	7375.00	36.57	11.59	34.21	33.75	47.70	74.00	26.30	Peak
6	11149.00	39.42	11.18	33.38	32.42	49.64	74.00	24.36	Peak
7	13342.00	39.70	11.48	32.93	30.50	48.75	74.00	25.25	Peak

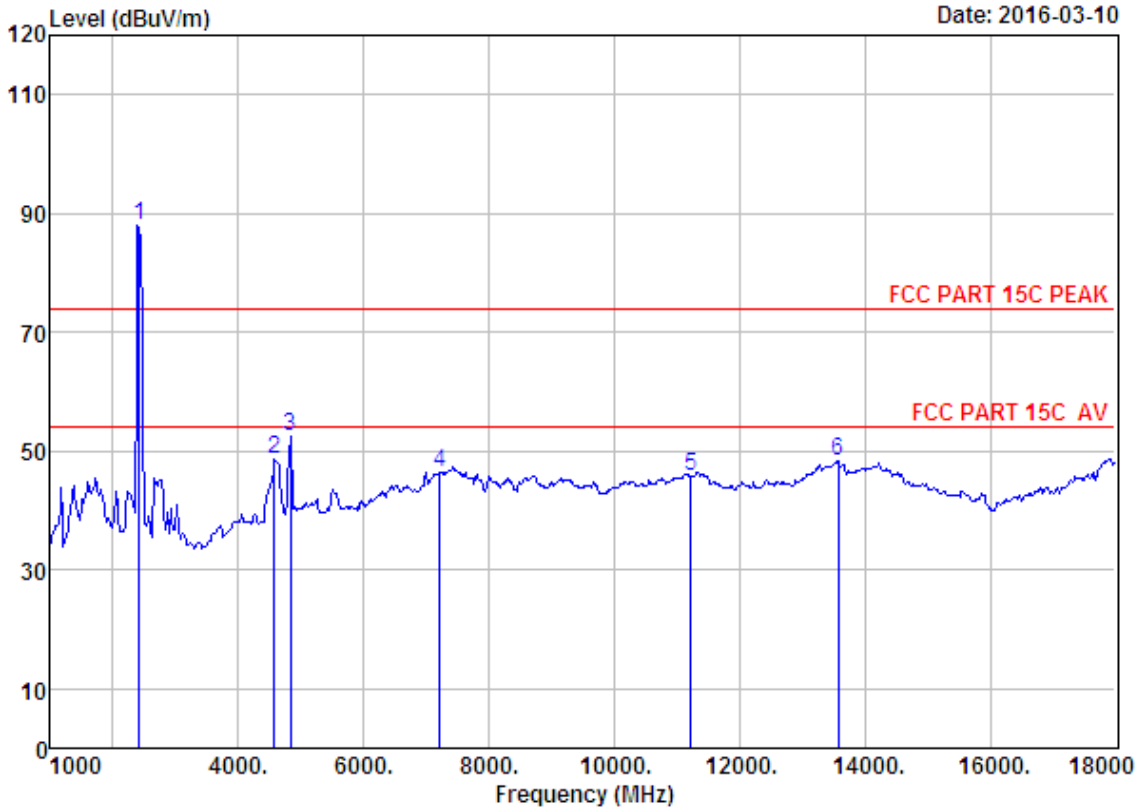
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 237
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	2412.00	27.60	6.64	34.64	92.30	91.90	74.00	-17.90	Peak
2	4655.00	30.94	11.09	35.57	43.71	50.17	74.00	23.83	Peak
3	4824.00	31.28	11.84	35.66	40.16	47.62	54.00	6.38	Average
4	4824.00	31.28	11.84	35.66	50.39	57.85	74.00	16.15	Peak
5	7358.00	36.56	11.58	34.19	32.70	46.65	74.00	27.35	Peak
6	10571.00	39.05	11.31	34.44	29.48	45.40	74.00	28.60	Peak
7	13682.00	40.59	11.28	32.83	29.24	48.28	74.00	25.72	Peak

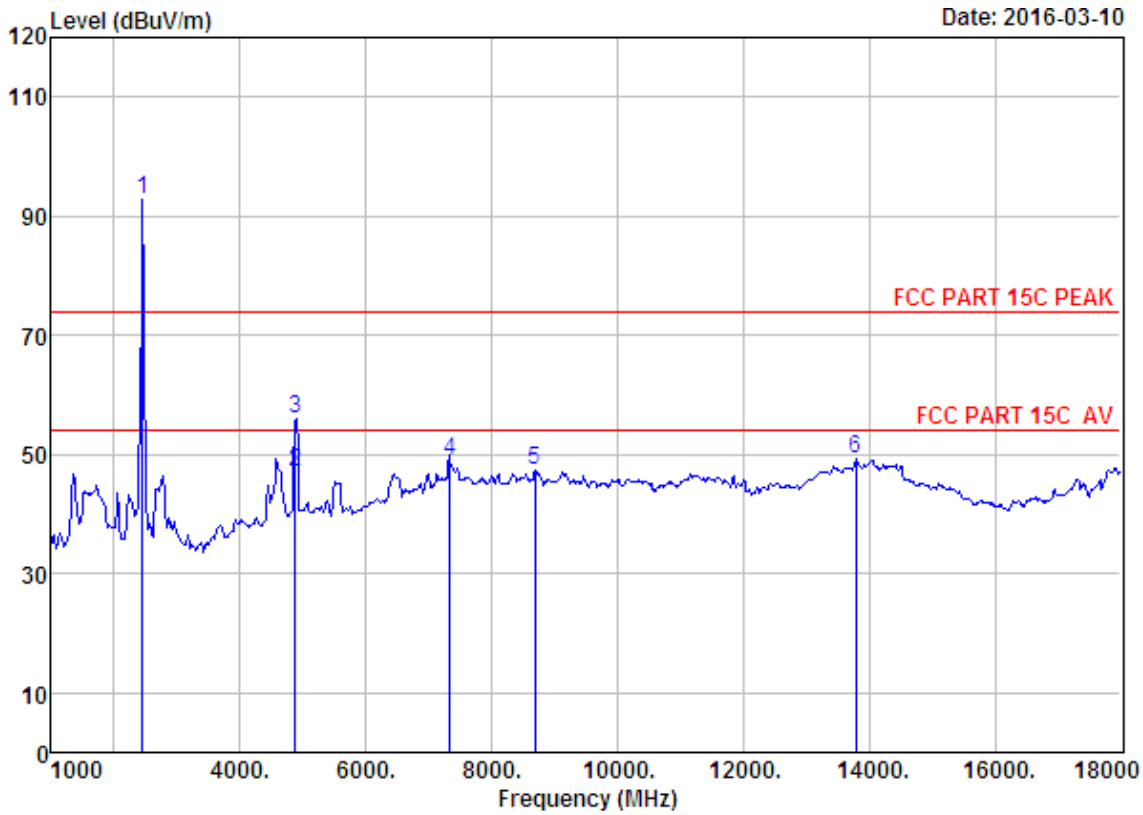
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 238
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	2412.00	27.60	6.64	34.64	88.41	88.01	74.00	-14.01	Peak
2	4570.00	30.74	10.72	35.61	42.76	48.61	74.00	25.39	Peak
3	4824.00	31.28	11.84	35.66	45.00	52.46	74.00	21.54	Peak
4	7222.00	36.52	11.54	33.95	32.15	46.26	74.00	27.74	Peak
5	11217.00	39.38	11.13	33.24	28.58	45.85	74.00	28.15	Peak
6	13580.00	40.31	11.40	32.64	29.21	48.28	74.00	25.72	Peak

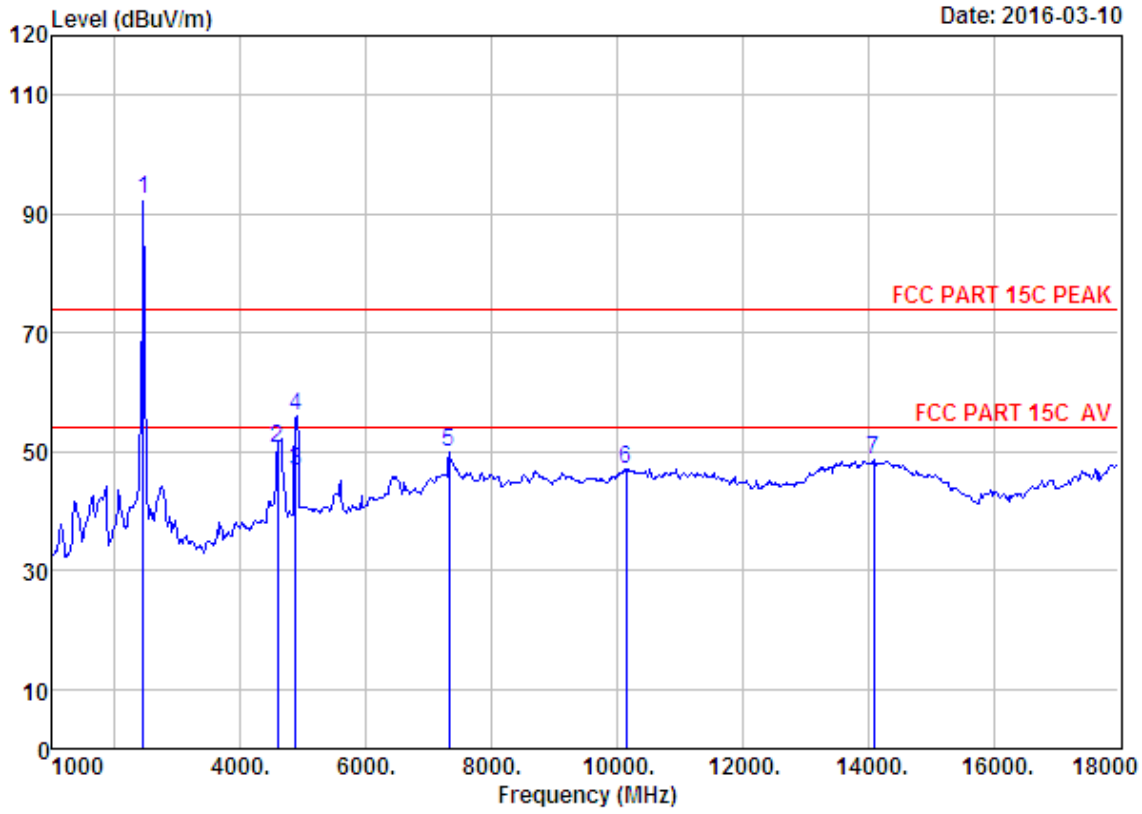
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 239
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	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	2442.00	27.60	6.67	34.85	93.37	92.79	74.00	-18.79	Peak
2	4884.00	31.37	12.07	35.82	39.50	47.12	54.00	6.88	Average
3	4884.00	31.37	12.07	35.82	48.46	56.08	74.00	17.92	Peak
4	7341.00	36.56	11.58	34.17	35.10	49.07	74.00	24.93	Peak
5	8684.00	37.32	11.45	33.66	32.18	47.29	74.00	26.71	Peak
6	13784.00	40.88	11.16	33.05	30.27	49.26	74.00	24.74	Peak

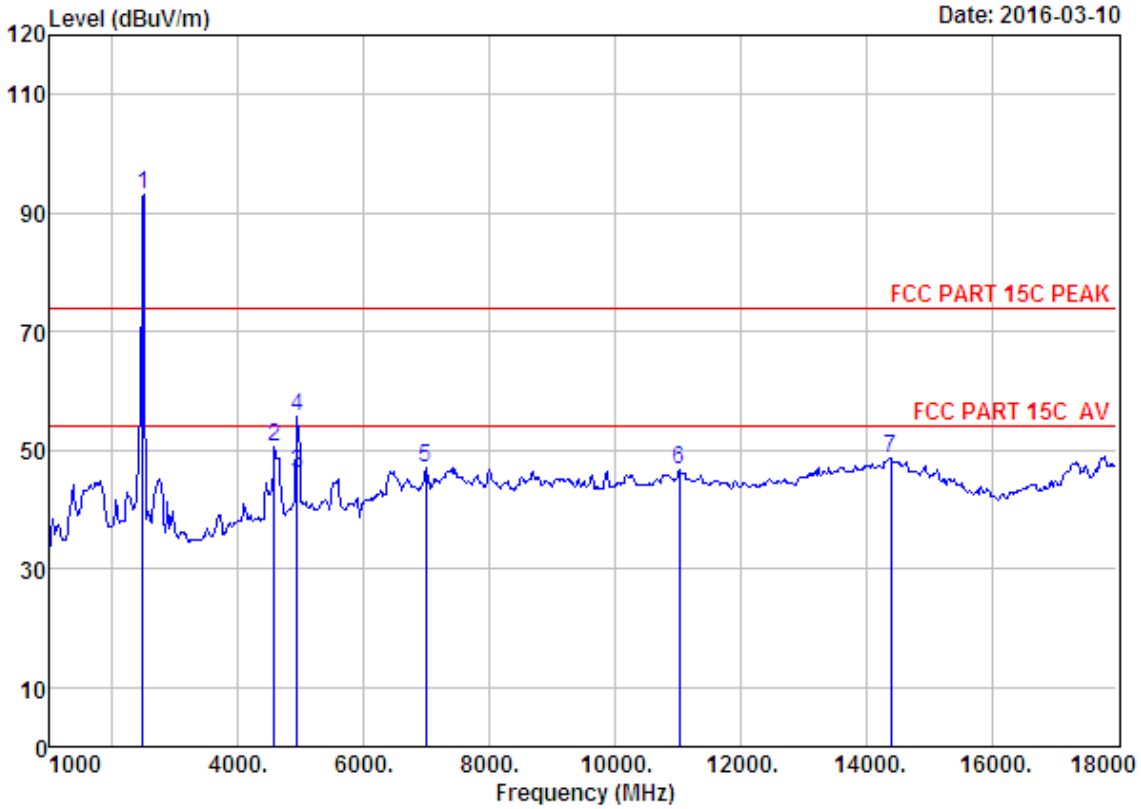
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 240
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	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	2442.00	27.60	6.67	34.85	93.01	92.43	74.00	-18.43	Peak
2	4587.00	30.77	10.79	35.60	44.71	50.67	74.00	23.33	Peak
3	4884.00	31.37	12.07	35.82	39.25	46.87	54.00	7.13	Average
4	4884.00	31.37	12.07	35.82	48.25	55.87	74.00	18.13	Peak
5	7324.00	36.55	11.57	34.14	36.08	50.06	74.00	23.94	Peak
6	10146.00	38.36	11.51	34.58	31.86	47.15	74.00	26.85	Peak
7	14090.00	41.54	10.91	33.13	29.25	48.57	74.00	25.43	Peak

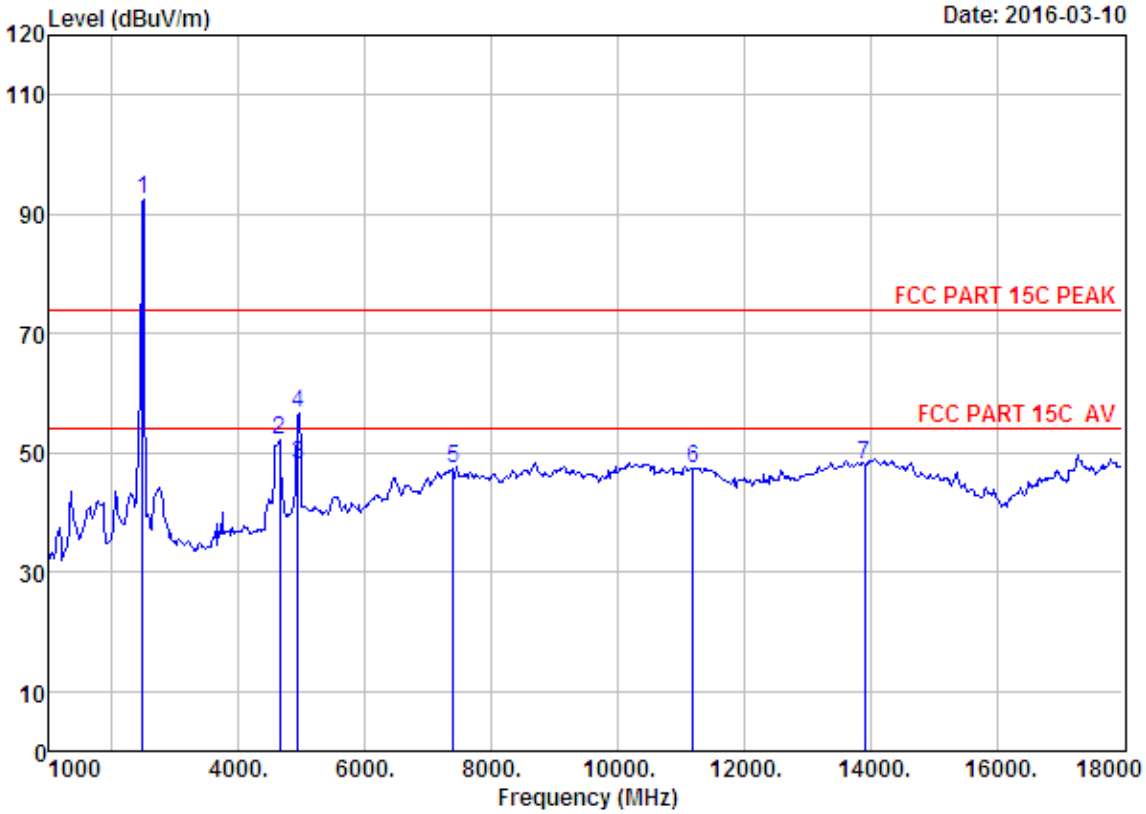
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 243
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	2472.00	27.58	6.71	35.11	93.81	92.99	74.00	-18.99	Peak
2	4570.00	30.74	10.72	35.61	44.80	50.65	74.00	23.35	Peak
3	4944.00	31.47	12.37	35.96	38.10	45.98	54.00	8.02	Average
4	4944.00	31.47	12.37	35.96	47.84	55.72	74.00	18.28	Peak
5	6984.00	35.46	11.51	34.21	34.43	47.19	74.00	26.81	Peak
6	11030.00	39.50	11.27	33.98	29.87	46.66	74.00	27.34	Peak
7	14396.00	41.79	10.92	33.39	29.39	48.71	74.00	25.29	Peak

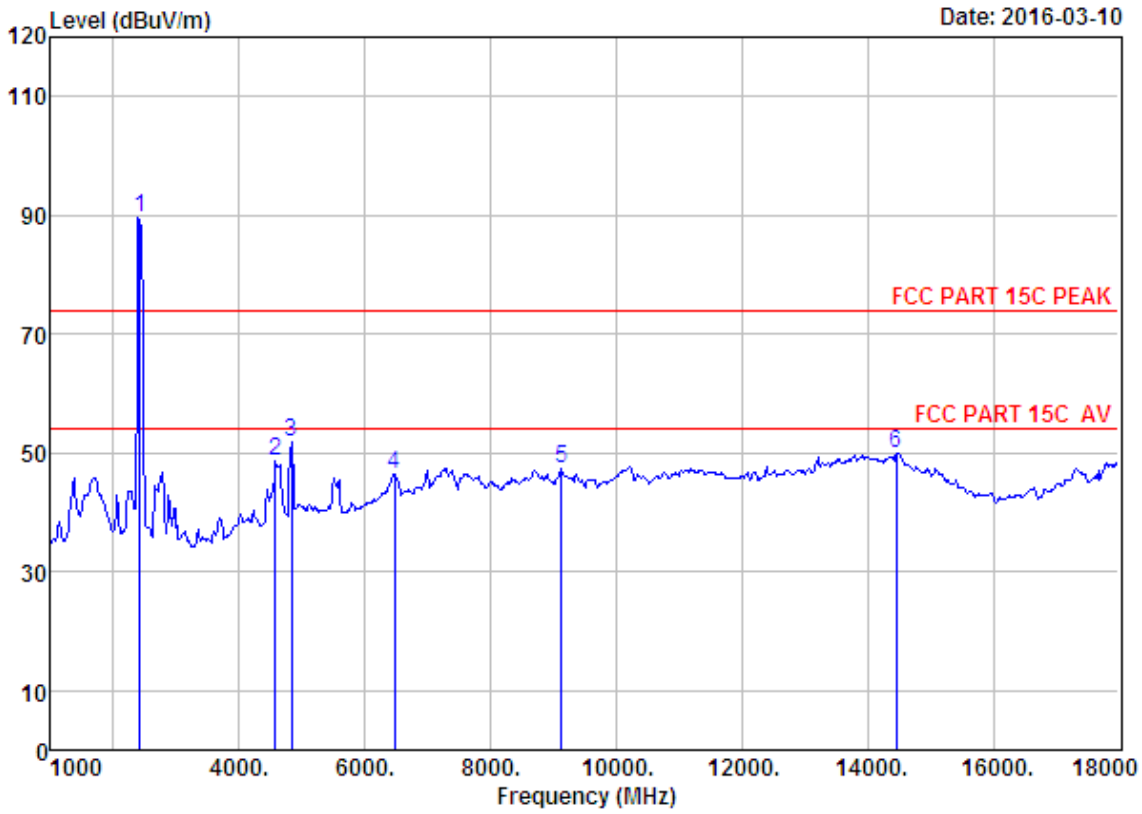
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 244
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	2472.00	27.58	6.71	35.11	93.30	92.48	74.00	-18.48	Peak
2	4655.00	30.94	11.09	35.57	45.82	52.28	74.00	21.72	Peak
3	4944.00	31.47	12.37	35.96	40.00	47.88	54.00	6.12	Average
4	4944.00	31.47	12.37	35.96	48.87	56.75	74.00	17.25	Peak
5	7392.00	36.57	11.59	34.23	33.57	47.50	74.00	26.50	Peak
6	11200.00	39.39	11.14	33.24	30.05	47.34	74.00	26.66	Peak
7	13903.00	41.21	11.02	33.02	28.79	48.00	74.00	26.00	Peak

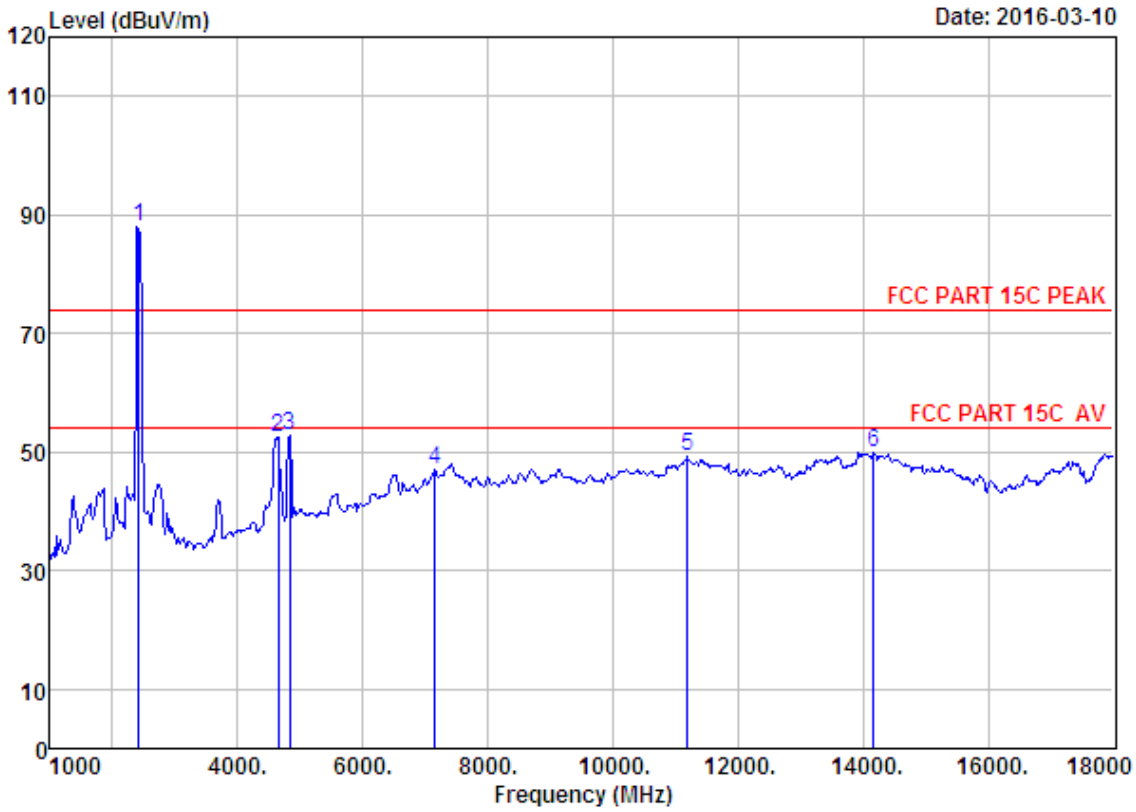
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 247
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2412.00	27.60	6.64	34.64	90.12	89.72	74.00	-15.72	Peak
2	4570.00	30.74	10.72	35.61	42.77	48.62	74.00	25.38	Peak
3	4824.00	31.28	11.84	35.66	44.25	51.71	74.00	22.29	Peak
4	6474.00	34.16	12.22	35.18	35.22	46.42	74.00	27.58	Peak
5	9126.00	37.62	11.52	34.09	32.33	47.38	74.00	26.62	Peak
6	14464.00	41.85	10.93	33.45	30.51	49.84	74.00	24.16	Peak

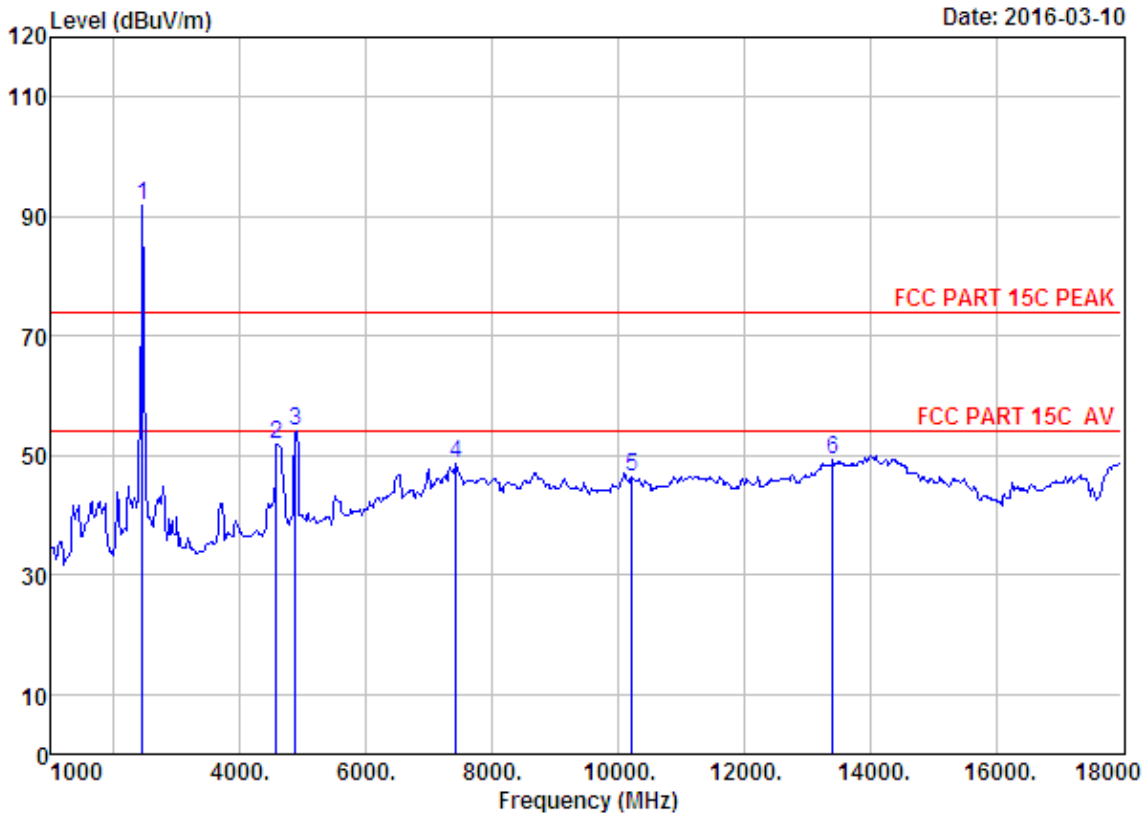
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 248
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2412.00	27.60	6.64	34.64	88.44	88.04	74.00	-14.04	Peak
2	4655.00	30.94	11.09	35.57	46.04	52.50	74.00	21.50	Peak
3	4824.00	31.28	11.84	35.66	45.22	52.68	74.00	21.32	Peak
4	7154.00	36.25	11.52	33.88	33.24	47.13	74.00	26.87	Peak
5	11200.00	39.39	11.14	33.24	31.84	49.13	74.00	24.87	Peak
6	14175.00	41.61	10.91	33.35	30.66	49.83	74.00	24.17	Peak

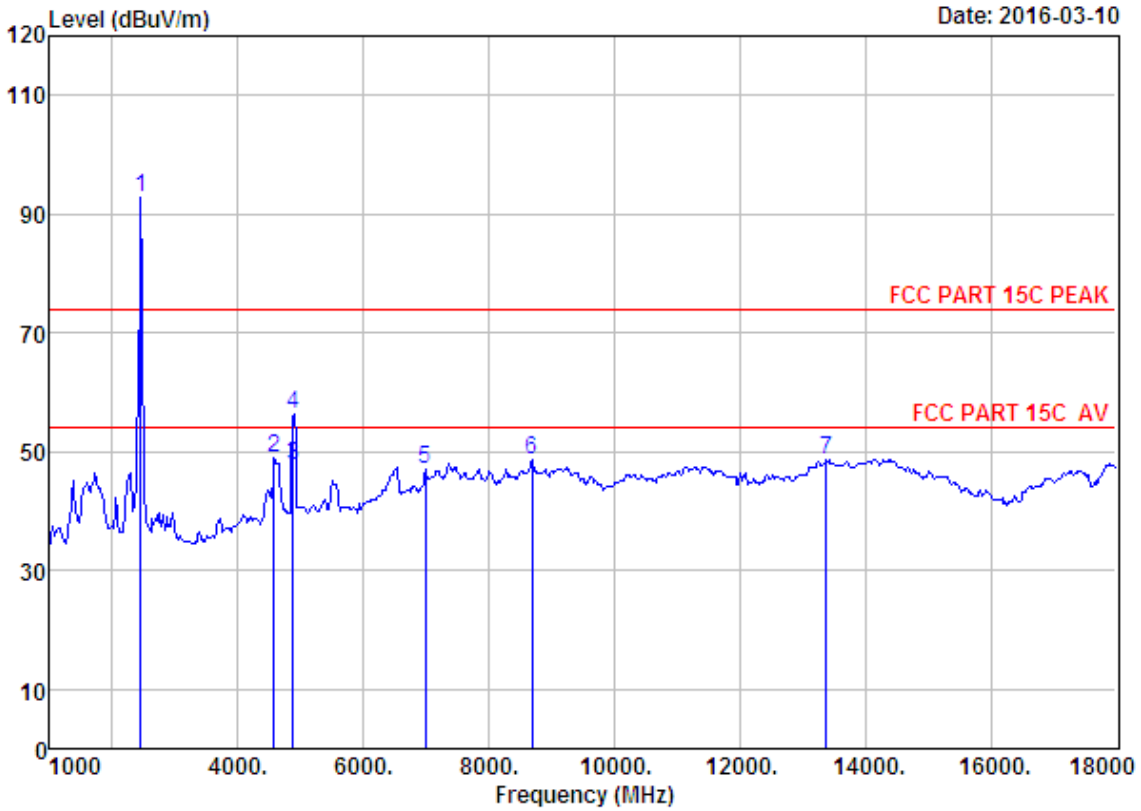
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 249
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	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	2442.00	27.60	6.67	34.85	92.30	91.72	74.00	-17.72	Peak
2	4570.00	30.74	10.72	35.61	46.05	51.90	74.00	22.10	Peak
3	4884.00	31.37	12.07	35.82	46.37	53.99	74.00	20.01	Peak
4	7426.00	36.56	11.60	34.22	34.73	48.67	74.00	25.33	Peak
5	10214.00	38.48	11.47	34.50	30.90	46.35	74.00	27.65	Peak
6	13410.00	39.87	11.49	32.86	30.64	49.14	74.00	24.86	Peak

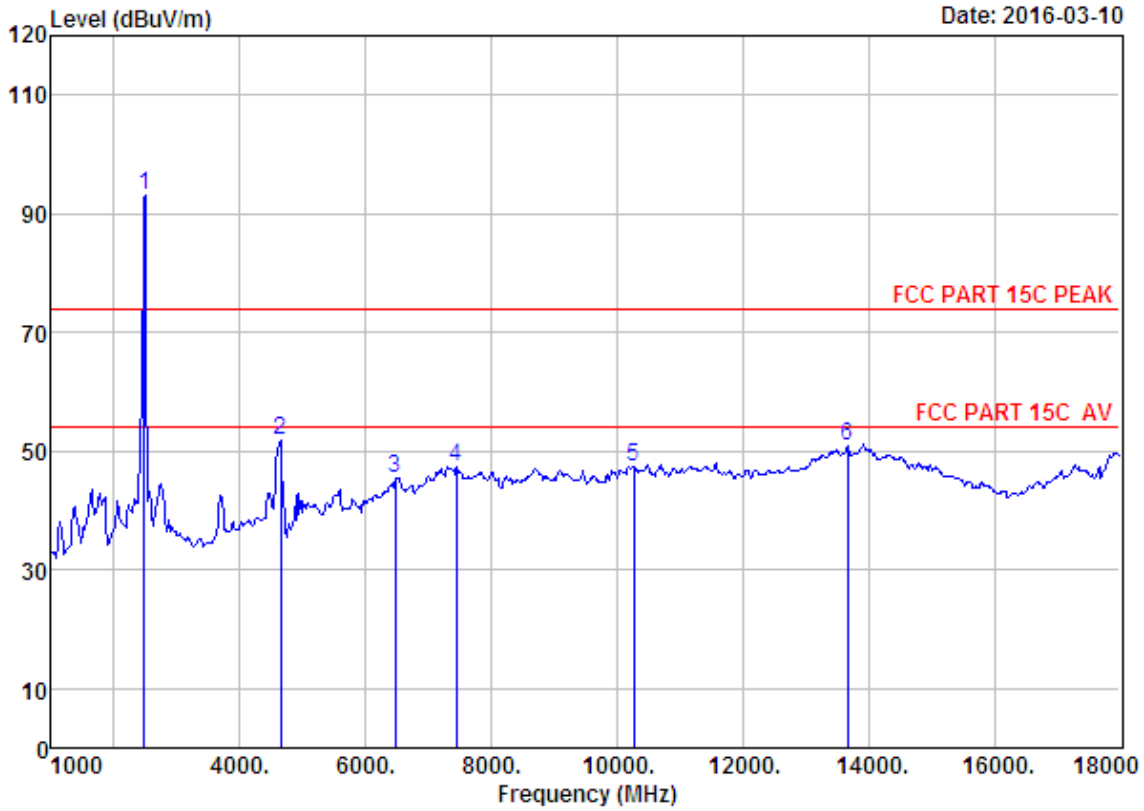
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 250
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	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	2442.00	27.60	6.67	34.85	93.50	92.92	74.00	-18.92	Peak
2	4570.00	30.74	10.72	35.61	43.19	49.04	74.00	24.96	Peak
3	4884.00	31.37	12.07	35.82	40.13	47.75	54.00	6.25	Average
4	4884.00	31.37	12.07	35.82	48.84	56.46	74.00	17.54	Peak
5	6984.00	35.46	11.51	34.21	34.13	46.89	74.00	27.11	Peak
6	8684.00	37.32	11.45	33.66	33.60	48.71	74.00	25.29	Peak
7	13376.00	39.78	11.48	32.91	30.29	48.64	74.00	25.36	Peak

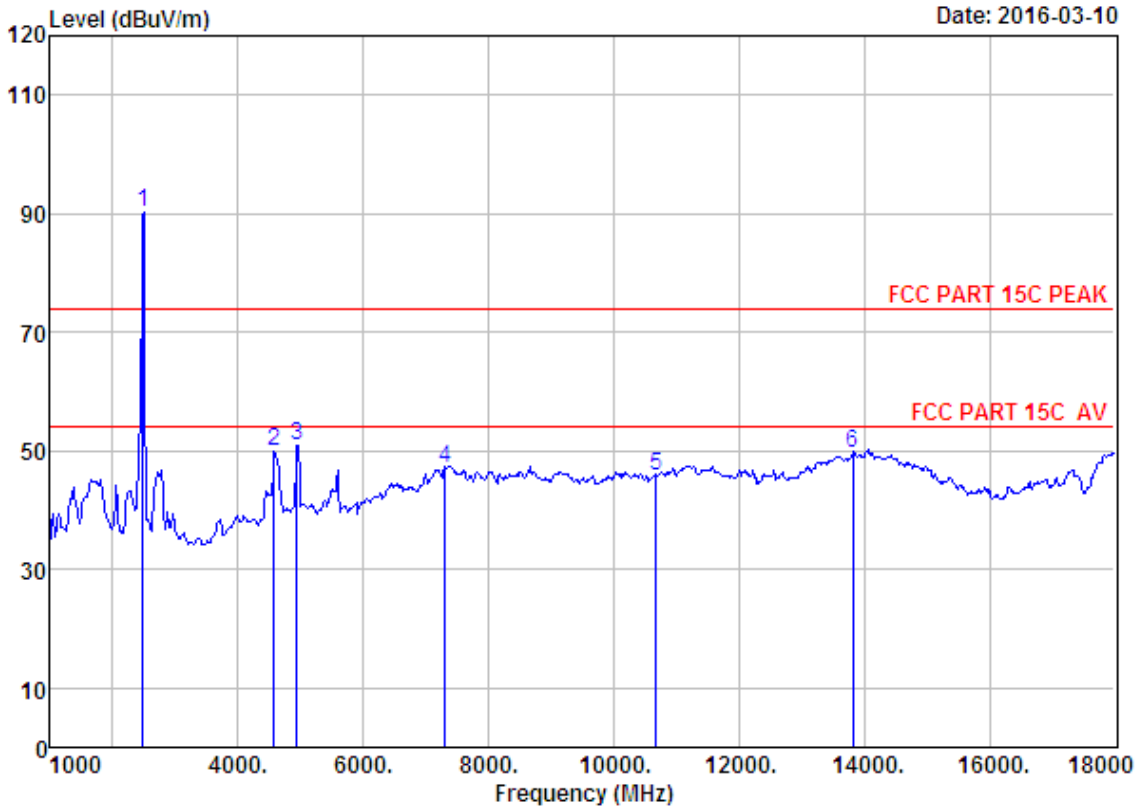
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 253
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	2472.00	27.58	6.71	35.11	94.03	93.21	74.00	-19.21	Peak
2	4655.00	30.94	11.09	35.57	45.41	51.87	74.00	22.13	Peak
3	6474.00	34.16	12.22	35.18	34.20	45.40	74.00	28.60	Peak
4	7443.00	36.54	11.61	34.22	33.55	47.48	74.00	26.52	Peak
5	10265.00	38.56	11.44	34.49	32.00	47.51	74.00	26.49	Peak
6	13665.00	40.55	11.30	32.75	31.68	50.78	74.00	23.22	Peak

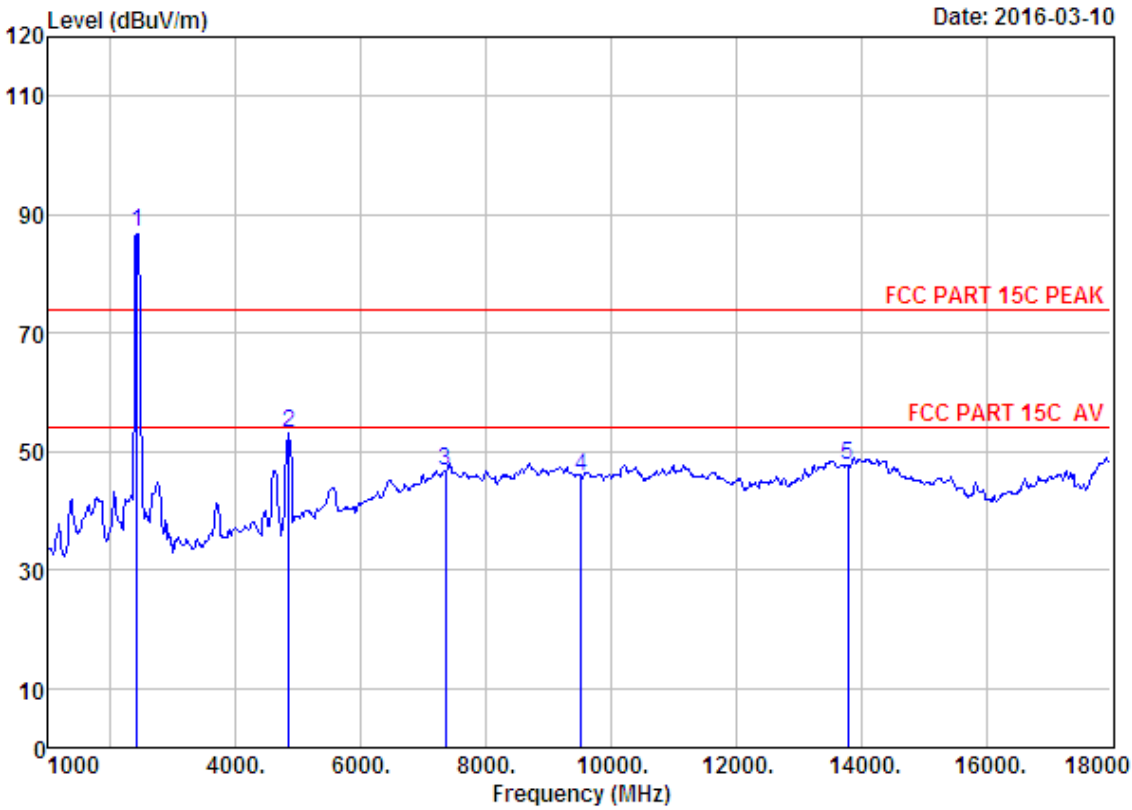
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 254
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	2472.00	27.58	6.71	35.11	91.13	90.31	74.00	-16.31	Peak
2	4570.00	30.74	10.72	35.61	44.10	49.95	74.00	24.05	Peak
3	4944.00	31.47	12.37	35.96	42.88	50.76	74.00	23.24	Peak
4	7307.00	36.55	11.57	34.12	33.14	47.14	74.00	26.86	Peak
5	10673.00	39.17	11.30	34.27	29.68	45.88	74.00	28.12	Peak
6	13818.00	40.97	11.12	33.07	30.62	49.64	74.00	24.36	Peak

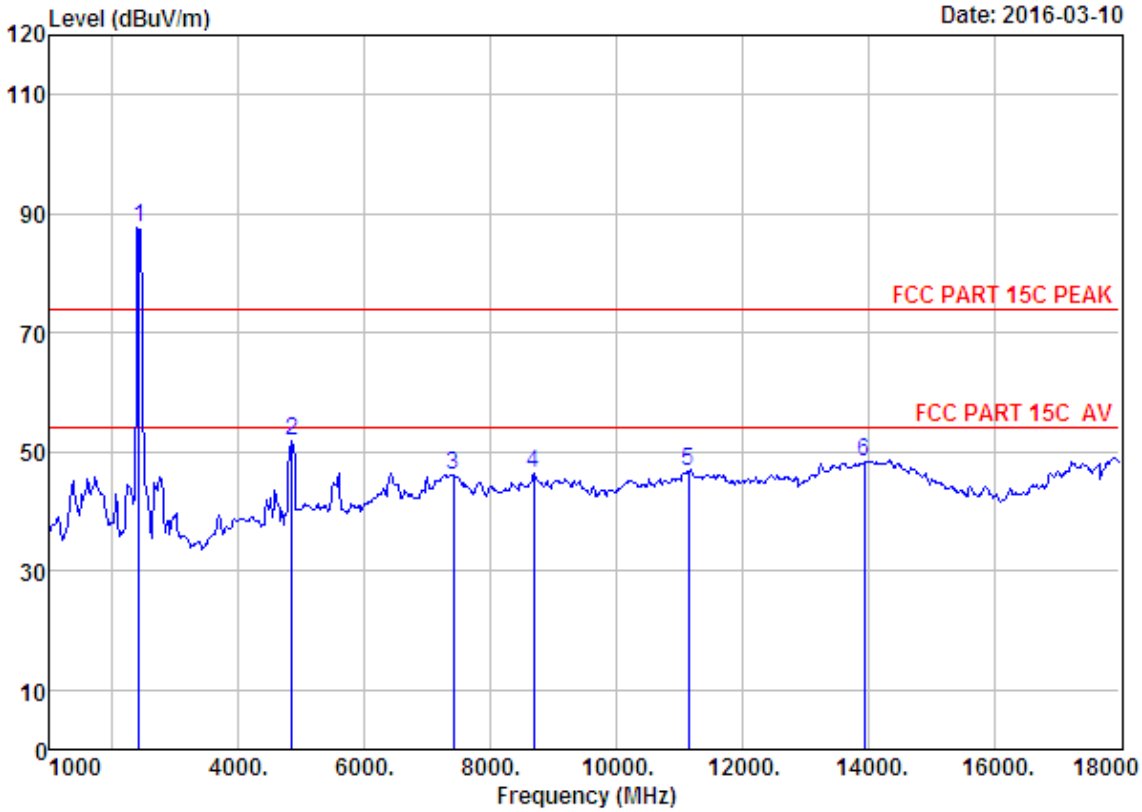
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.        : 1# 966 chamber              Data no.  : 257
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             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11n HT40 CH1 2422TX
```

	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	2422.00	27.60	6.66	34.74	87.36	86.88	74.00	-12.88	Peak
2	4844.00	31.31	11.92	35.68	45.48	53.03	74.00	20.97	Peak
3	7358.00	36.56	11.58	34.19	32.92	46.87	74.00	27.13	Peak
4	9517.00	37.98	11.71	34.91	30.93	45.71	74.00	28.29	Peak
5	13784.00	40.88	11.16	33.05	28.59	47.58	74.00	26.42	Peak

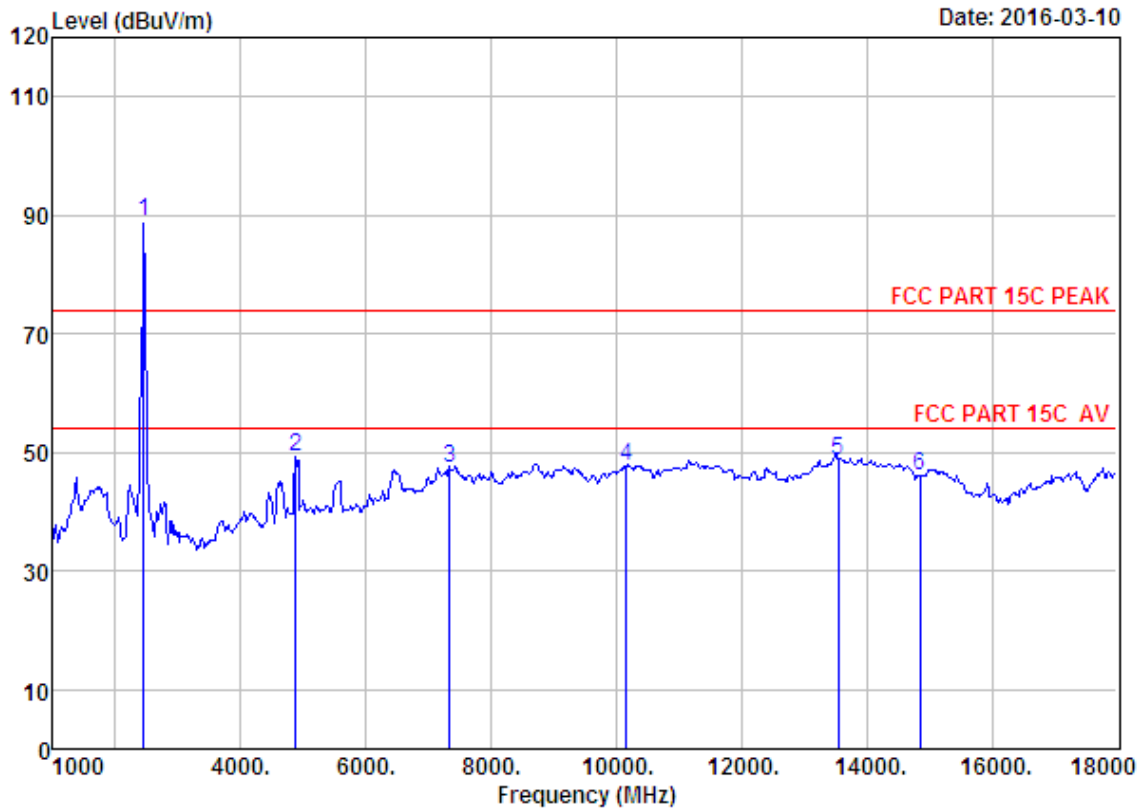
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 258
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	2422.00	27.60	6.66	34.74	88.21	87.73	74.00	-13.73	Peak
2	4844.00	31.31	11.92	35.68	44.42	51.97	74.00	22.03	Peak
3	7409.00	36.58	11.60	34.23	32.12	46.07	74.00	27.93	Peak
4	8684.00	37.32	11.45	33.66	31.13	46.24	74.00	27.76	Peak
5	11149.00	39.42	11.18	33.38	29.47	46.69	74.00	27.31	Peak
6	13937.00	41.31	10.98	33.00	28.96	48.25	74.00	25.75	Peak

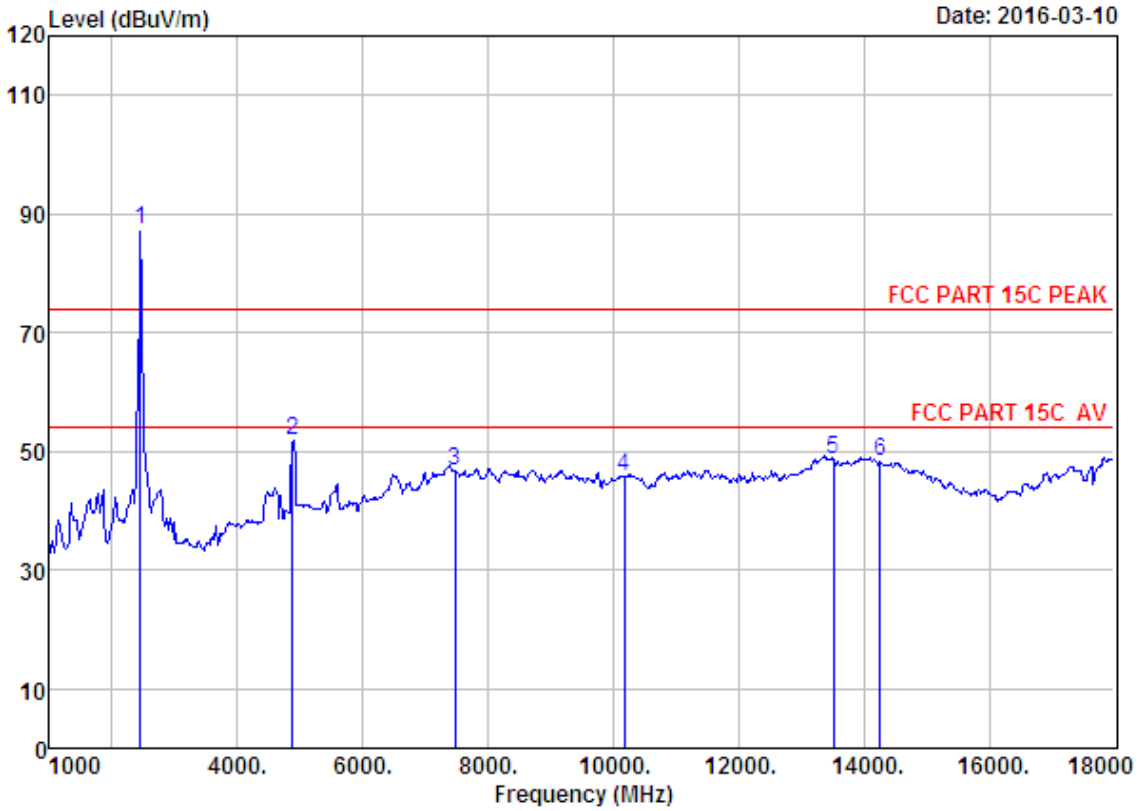
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 259
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH5 2442TX

	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	2442.00	27.60	6.67	34.85	89.41	88.83	74.00	-14.83	Peak
2	4884.00	31.37	12.07	35.82	41.77	49.39	74.00	24.61	Peak
3	7341.00	36.56	11.58	34.17	33.41	47.38	74.00	26.62	Peak
4	10163.00	38.39	11.50	34.56	32.46	47.79	74.00	26.21	Peak
5	13546.00	40.21	11.44	32.61	29.65	48.69	74.00	25.31	Peak
6	14855.00	40.71	10.88	33.68	28.24	46.15	74.00	27.85	Peak

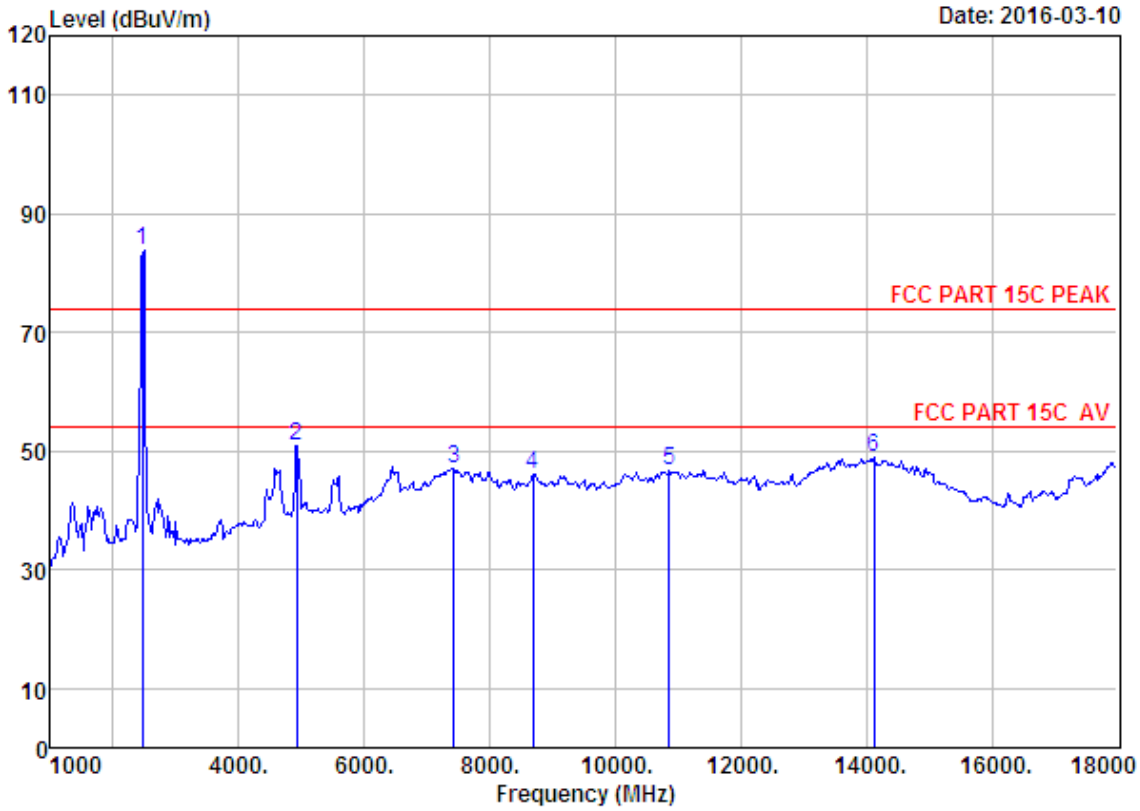
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.        : 1# 966 chamber              Data no.  : 260
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             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11n HT40 CH5 2442TX
```

	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	2442.00	27.60	6.67	34.85	87.80	87.22	74.00	-13.22	Peak
2	4884.00	31.37	12.07	35.82	44.07	51.69	74.00	22.31	Peak
3	7477.00	36.50	11.62	34.19	32.72	46.65	74.00	27.35	Peak
4	10180.00	38.42	11.49	34.53	30.54	45.92	74.00	28.08	Peak
5	13512.00	40.12	11.48	32.64	29.82	48.78	74.00	25.22	Peak
6	14260.00	41.68	10.92	33.42	28.99	48.17	74.00	25.83	Peak

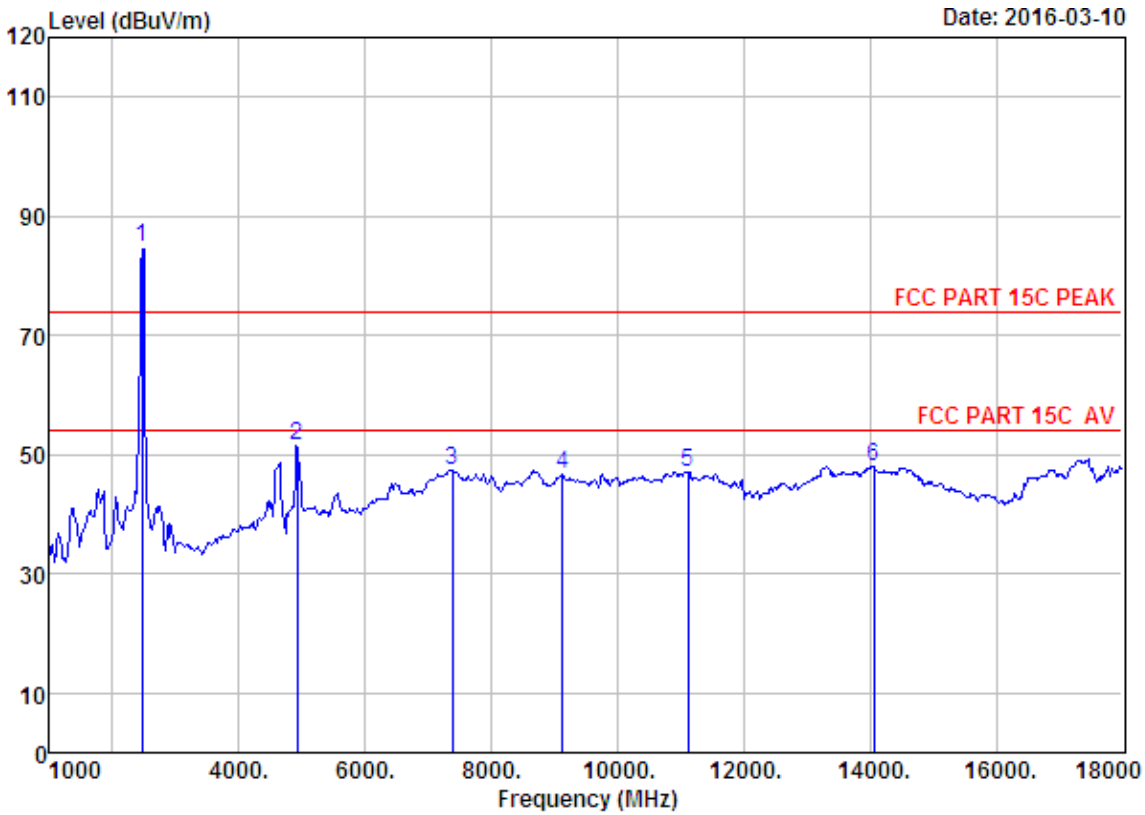
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 263
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	2462.00	27.58	6.69	34.98	84.51	83.80	74.00	-9.80	Peak
2	4924.00	31.45	12.29	35.91	43.19	51.02	74.00	22.98	Peak
3	7426.00	36.56	11.60	34.22	33.02	46.96	74.00	27.04	Peak
4	8684.00	37.32	11.45	33.66	30.96	46.07	74.00	27.93	Peak
5	10860.00	39.37	11.30	34.03	30.10	46.74	74.00	27.26	Peak
6	14124.00	41.57	10.91	33.22	29.56	48.82	74.00	25.18	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.

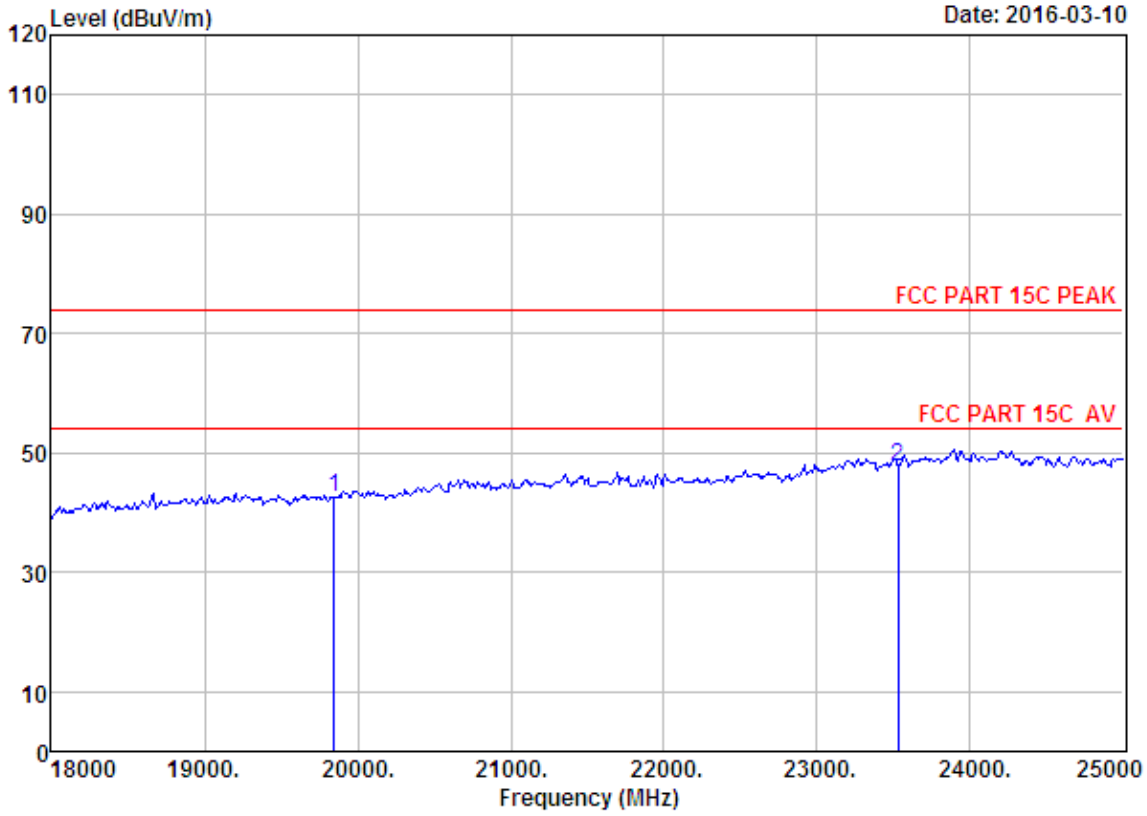


Site no. : 1# 966 chamber Data no. : 264
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	2462.00	27.58	6.69	34.98	85.37	84.66	74.00	-10.66	Peak
2	4924.00	31.45	12.29	35.91	43.60	51.43	74.00	22.57	Peak
3	7375.00	36.57	11.59	34.21	33.39	47.34	74.00	26.66	Peak
4	9126.00	37.62	11.52	34.09	31.60	46.65	74.00	27.35	Peak
5	11115.00	39.44	11.20	33.55	30.04	47.13	74.00	26.87	Peak
6	14056.00	41.51	10.90	33.06	28.54	47.89	74.00	26.11	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.

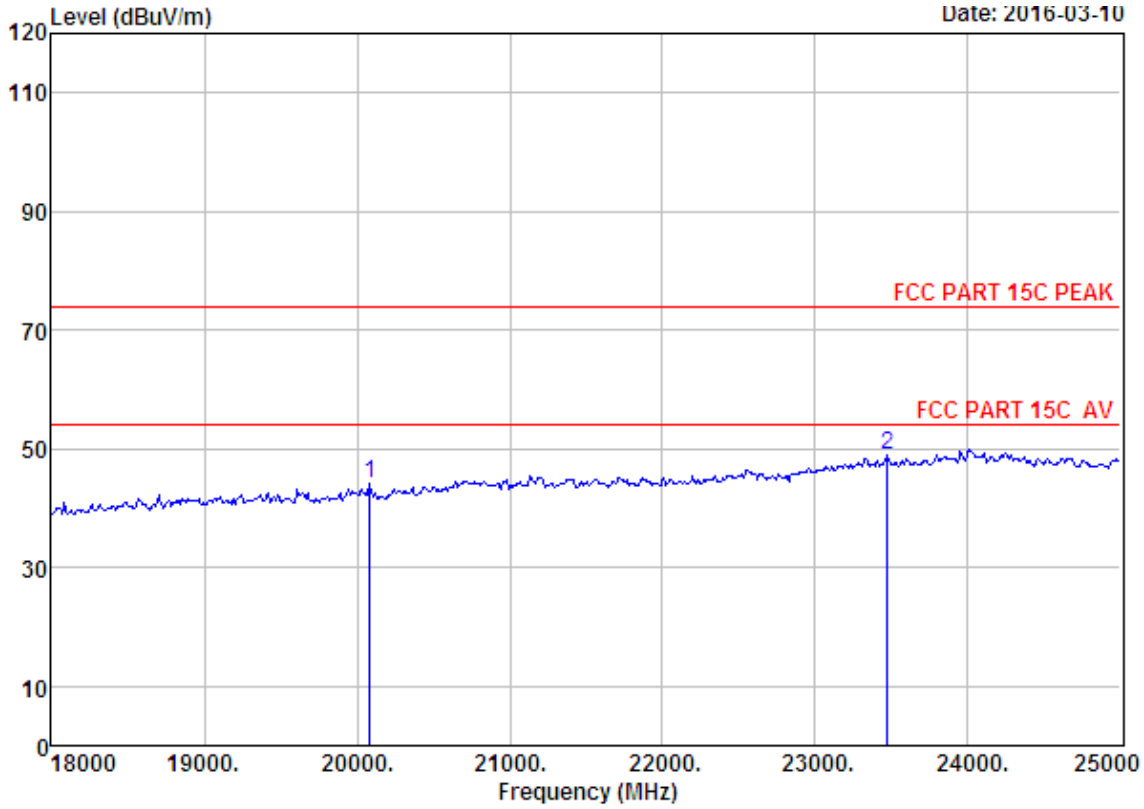
18000-25000 MHz




```
Site no.        : 1# 966 chamber              Data no.   : 265
Dis. / Ant.     : 3m   ANT ABOVE 18G          Ant. pol. : VERTICAL
Limit           : FCC PART 15C PEAK
Env. / Ins.     : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer        : Tony
EUT             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11b CH1 2412TX
```

	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	19848.00	46.04	19.51	36.57	13.46	42.44	74.00	31.56	Peak
2	23530.00	45.70	21.62	33.30	13.82	47.84	74.00	26.16	Peak

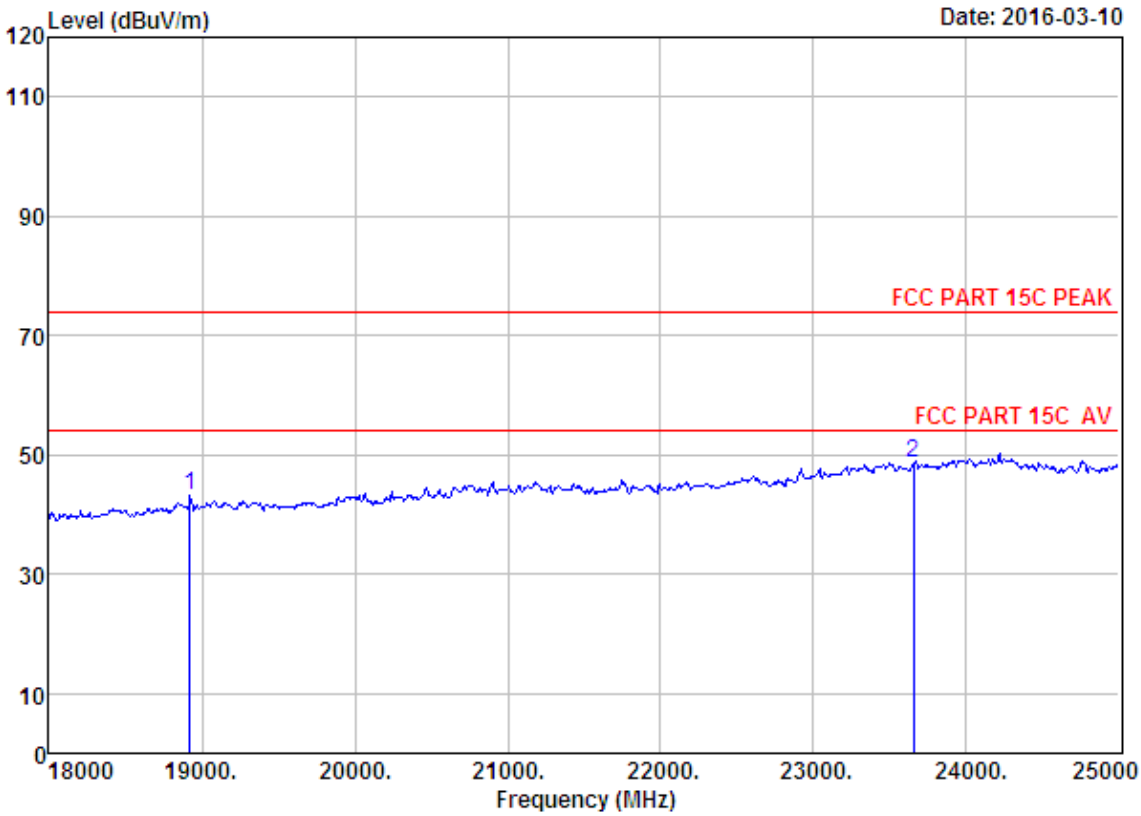
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 266
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH1 2412TX

	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	20086.00	46.08	19.72	36.63	14.93	44.10	74.00	29.90	Peak
2	23474.00	45.70	21.57	33.35	14.91	48.83	74.00	25.17	Peak

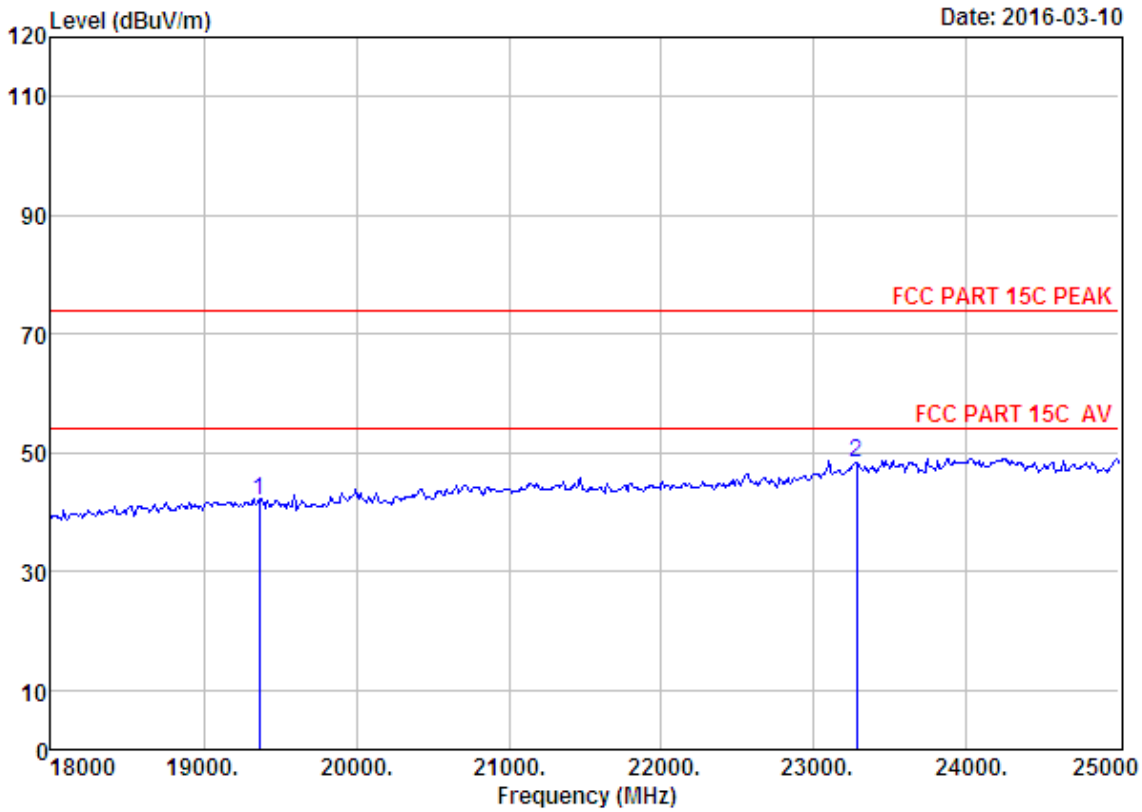
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 267
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH7 2442TX

	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	18924.00	45.33	18.45	35.79	15.06	43.05	74.00	30.95	Peak
2	23656.00	45.67	21.73	33.17	14.52	48.75	74.00	25.25	Peak

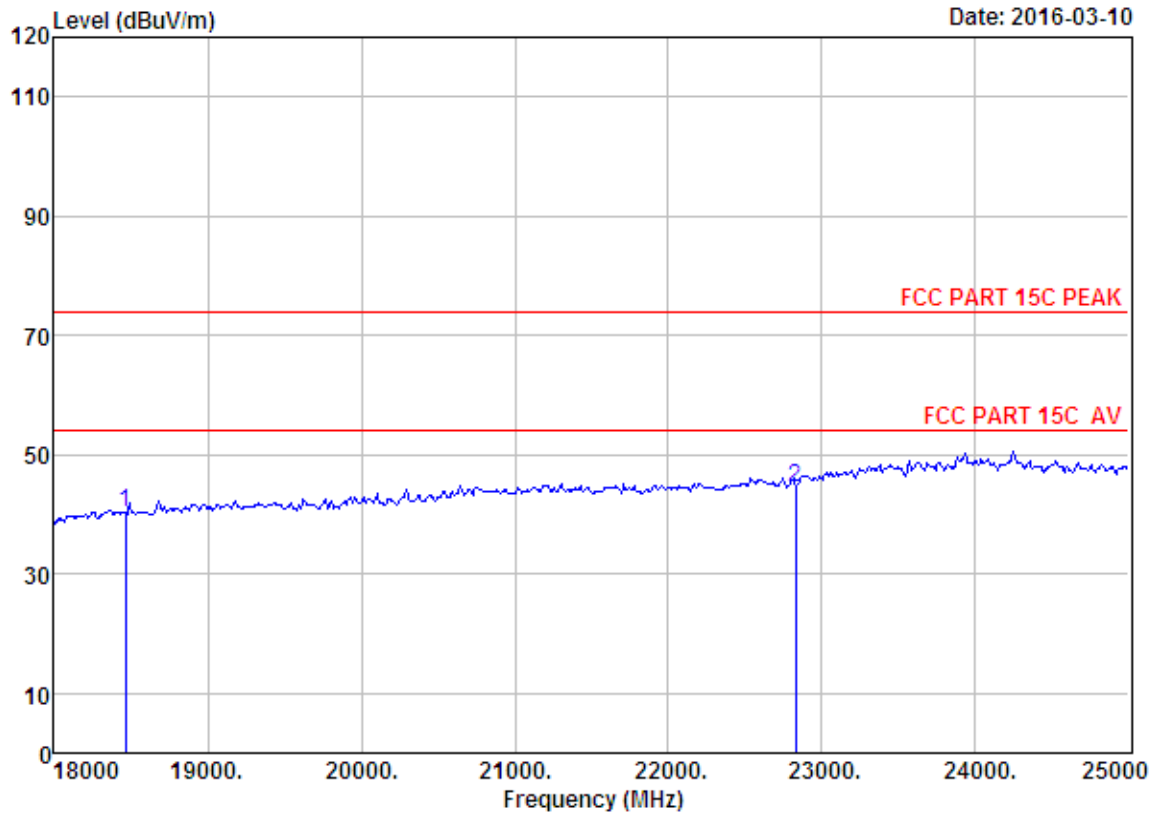
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 268
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH7 2442TX

	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	19365.00	45.77	18.96	36.17	13.45	42.01	74.00	31.99	Peak
2	23278.00	45.66	21.39	33.56	14.73	48.22	74.00	25.78	Peak

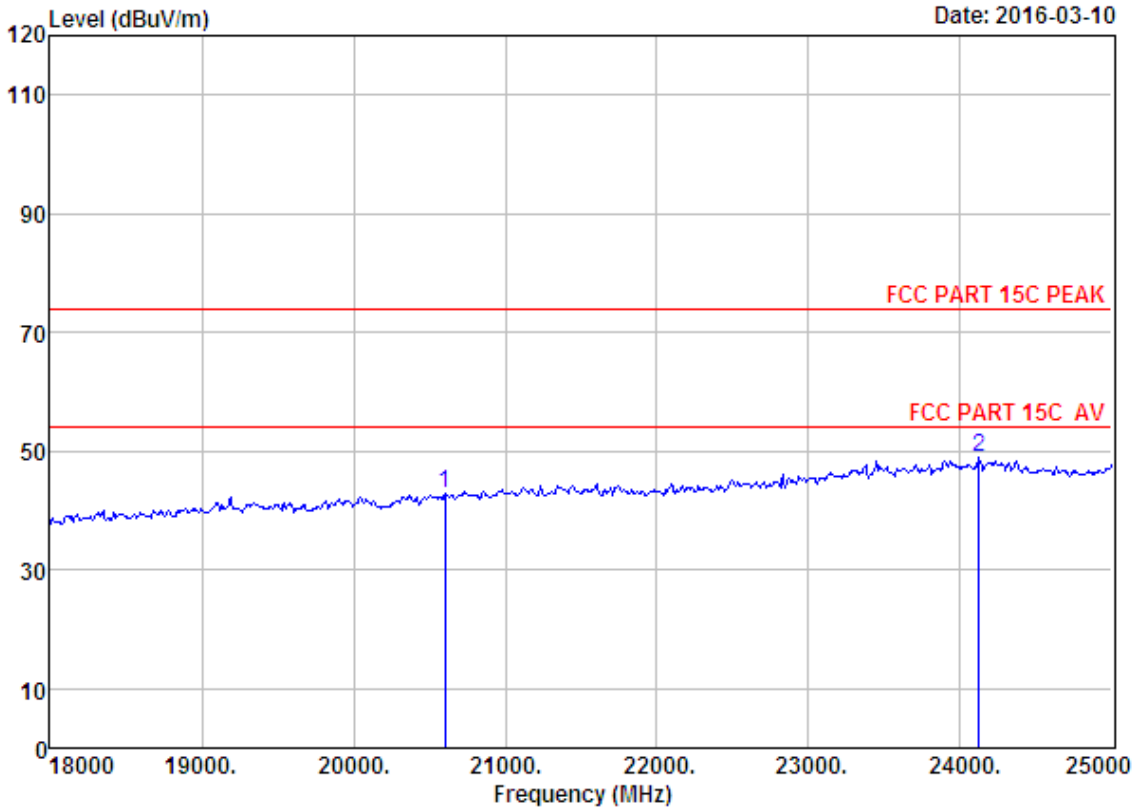
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 269
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	18462.00	44.84	17.88	35.38	12.98	40.32	74.00	33.68	Peak
2	22830.00	45.66	21.05	34.03	11.87	44.55	74.00	29.45	Peak

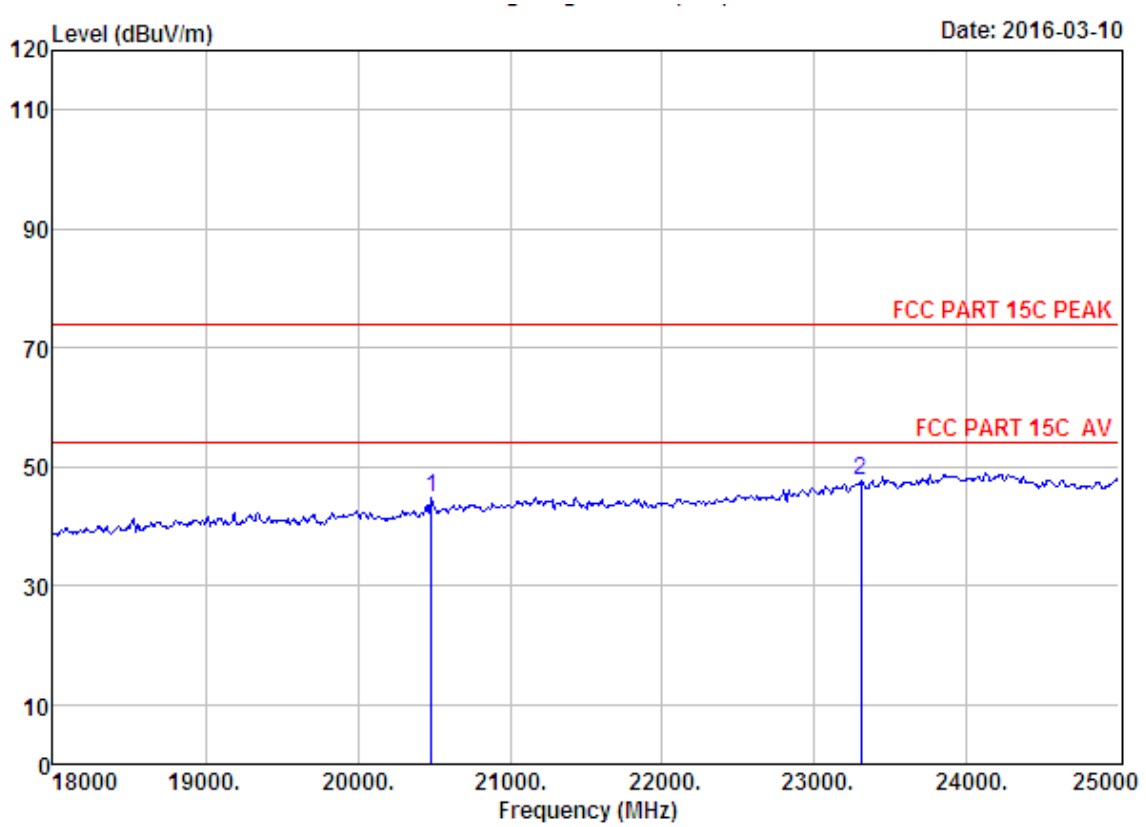
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 270
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	20604.00	46.05	19.95	36.16	12.93	42.77	74.00	31.23	Peak
2	24125.00	45.62	22.12	32.99	14.11	48.86	74.00	25.14	Peak

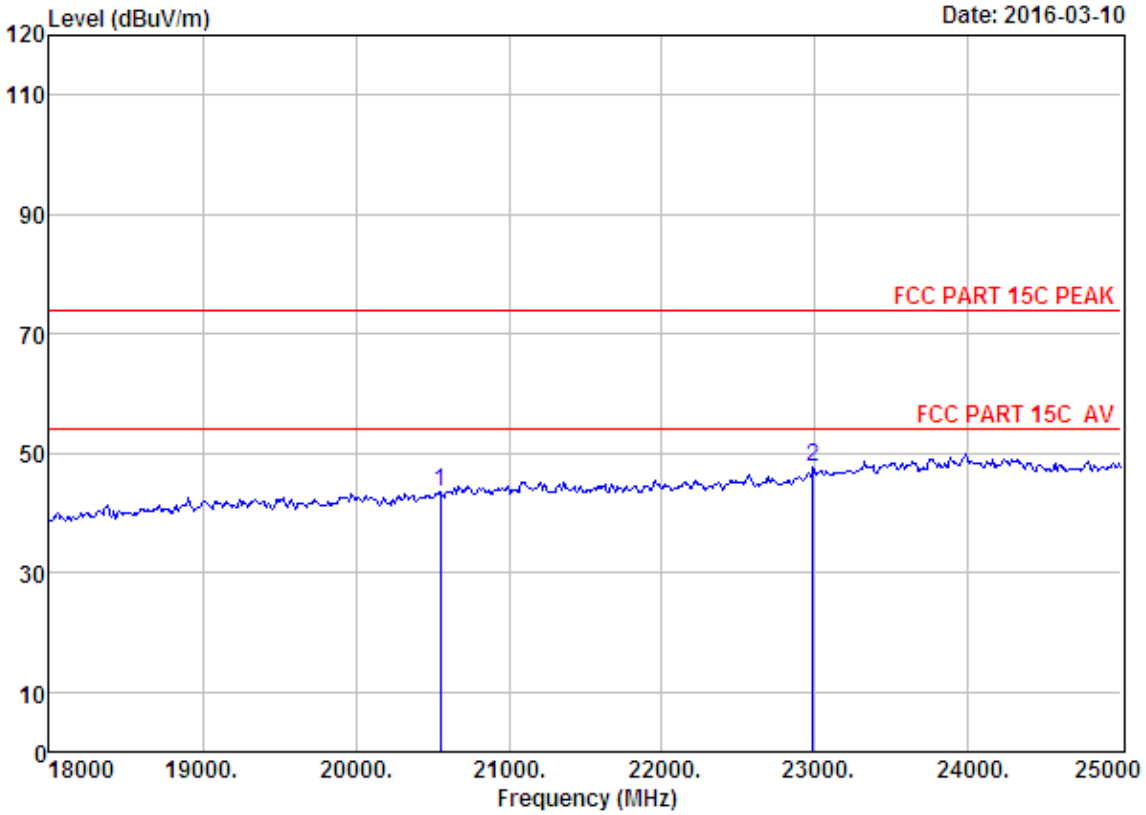
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 271
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	20485.00	46.00	19.90	36.27	15.17	44.80	74.00	29.20	Peak
2	23306.00	45.66	21.43	33.53	14.03	47.59	74.00	26.41	Peak

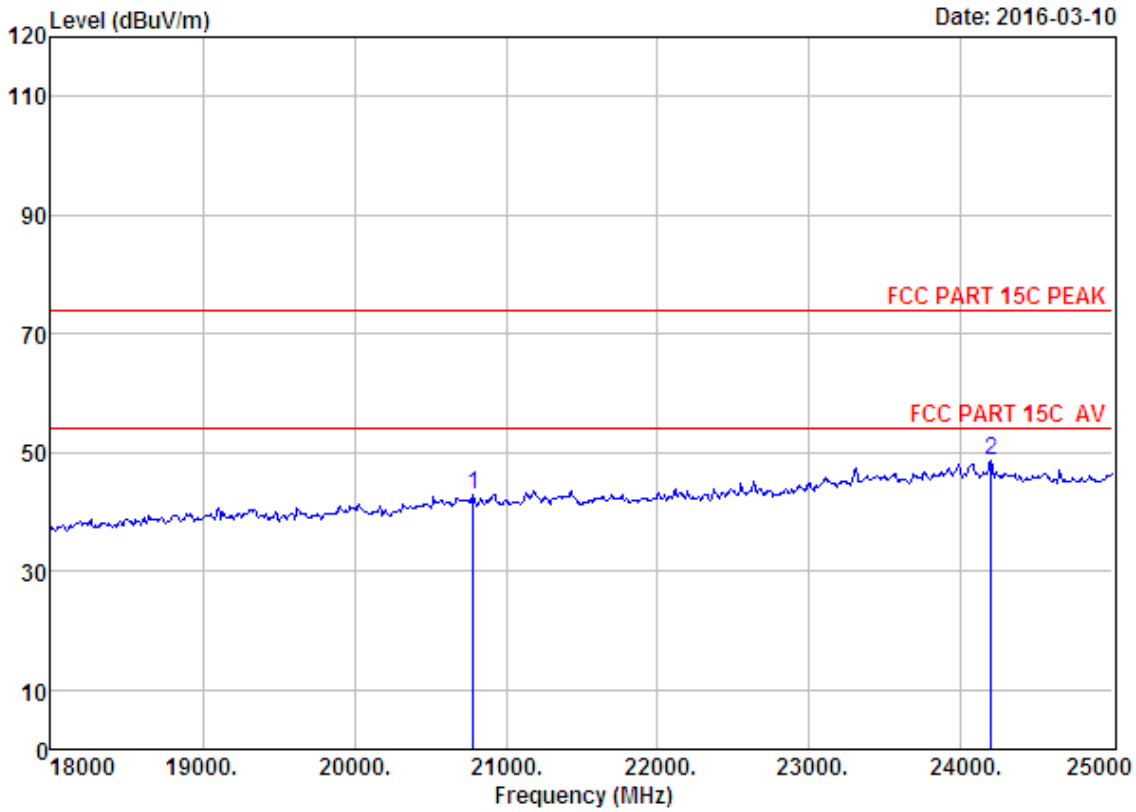
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 272
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	20555.00	46.03	19.93	36.21	13.82	43.57	74.00	30.43	Peak
2	22984.00	45.60	21.14	33.88	14.90	47.76	74.00	26.24	Peak

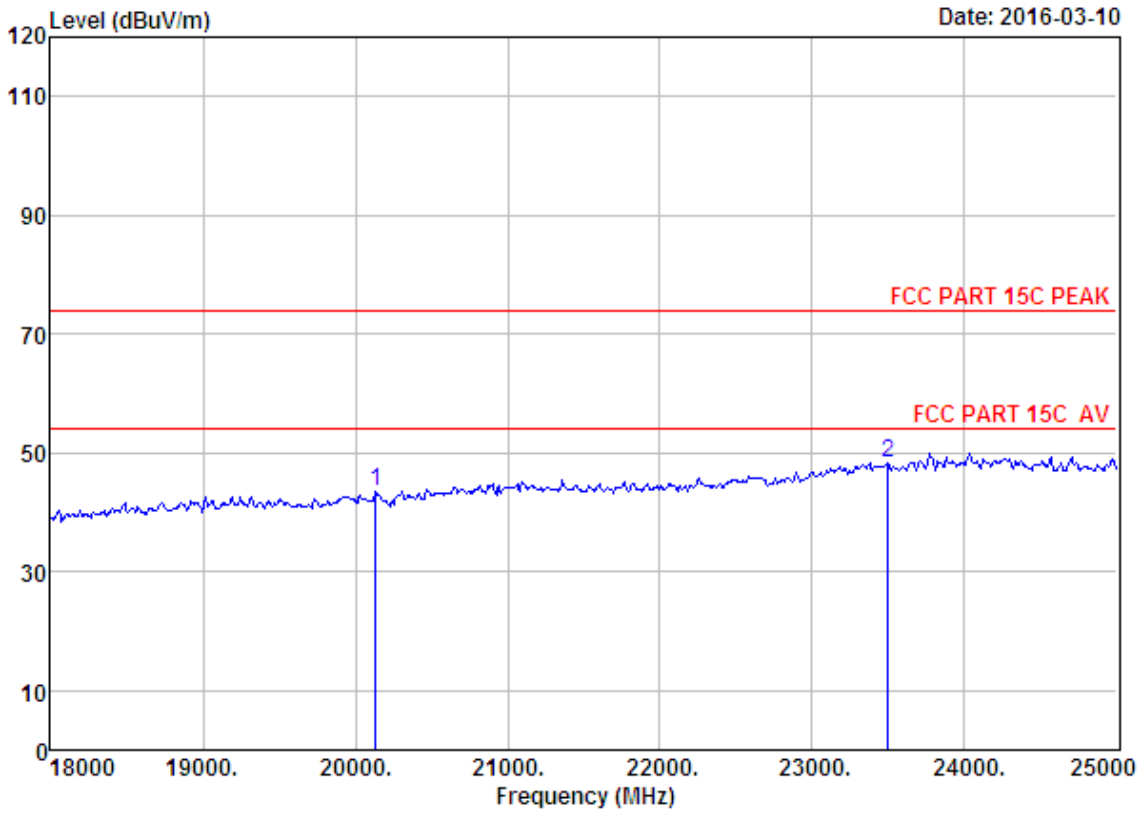
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 273
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	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	20786.00	46.18	20.04	36.00	12.69	42.91	74.00	31.09	Peak
2	24195.00	45.64	22.15	33.11	13.88	48.56	74.00	25.44	Peak

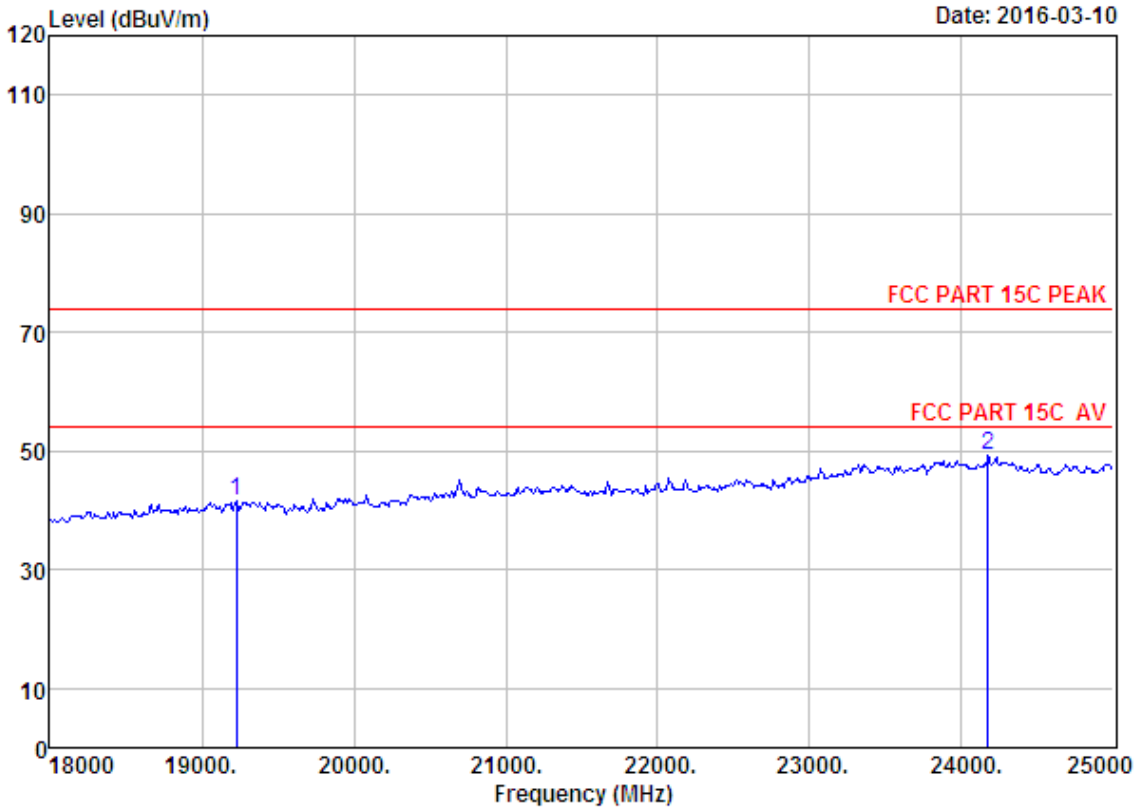
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 274
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH7 2442TX

	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	20135.00	46.07	19.74	36.59	14.24	43.46	74.00	30.54	Peak
2	23495.00	45.70	21.60	33.33	14.50	48.47	74.00	25.53	Peak

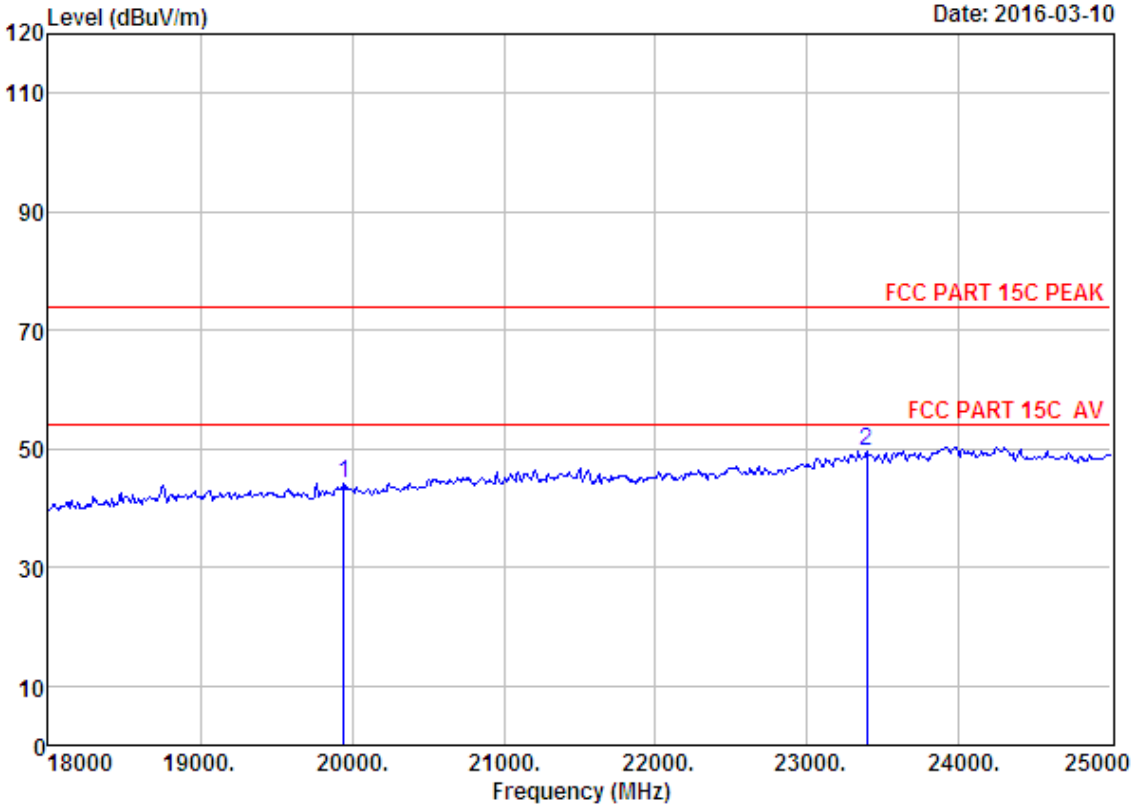
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 275
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	19225.00	45.64	18.80	36.04	13.23	41.63	74.00	32.37	Peak
2	24174.00	45.64	22.14	33.07	14.73	49.44	74.00	24.56	Peak

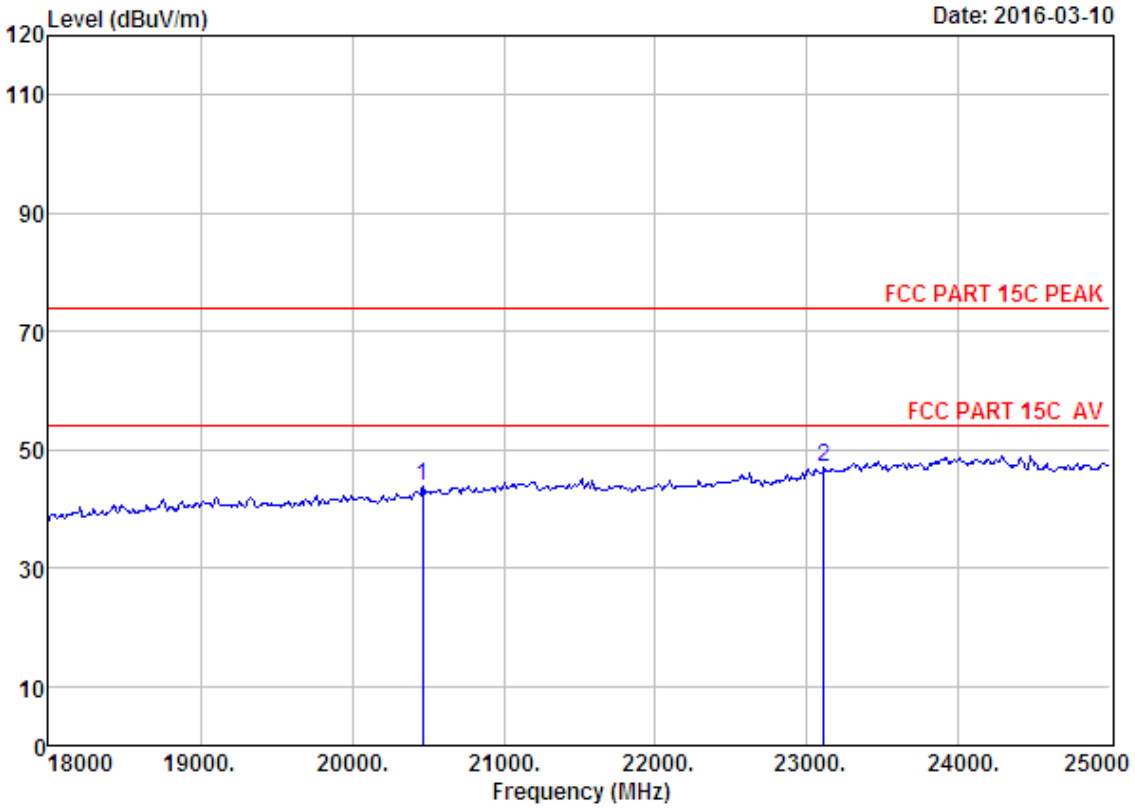
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 276
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	19946.00	46.07	19.62	36.66	15.19	44.22	74.00	29.78	Peak
2	23390.00	45.68	21.50	33.43	16.00	49.75	74.00	24.25	Peak

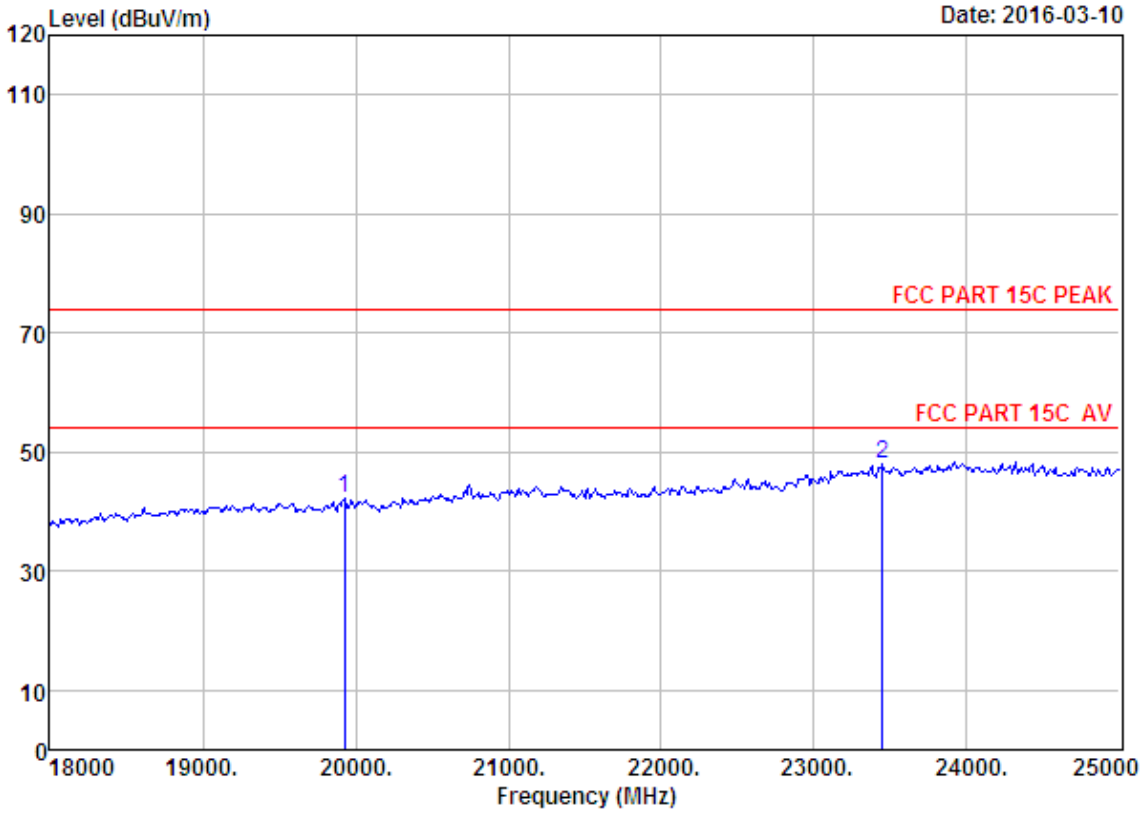
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 277
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	20464.00	46.01	19.89	36.27	14.19	43.82	74.00	30.18	Peak
2	23110.00	45.62	21.25	33.74	13.87	47.00	74.00	27.00	Peak

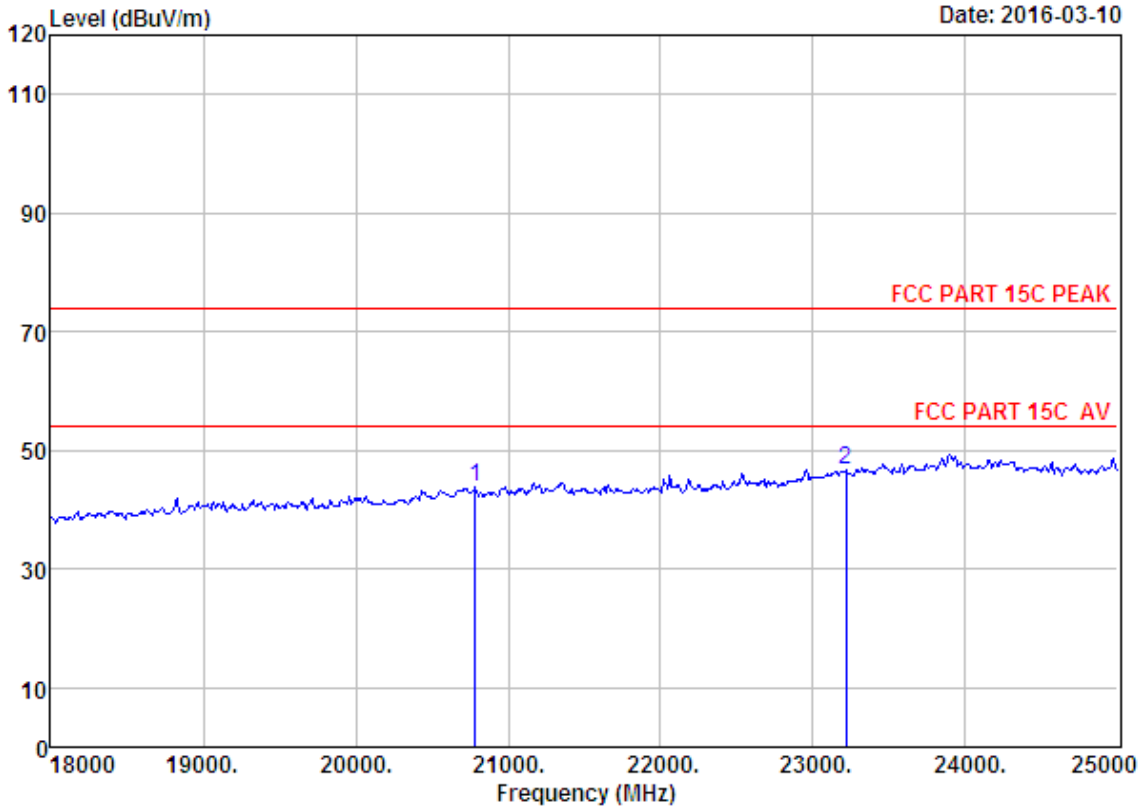
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 278
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	19925.00	46.07	19.60	36.64	13.24	42.27	74.00	31.73	Peak
2	23446.00	45.69	21.55	33.38	14.07	47.93	74.00	26.07	Peak

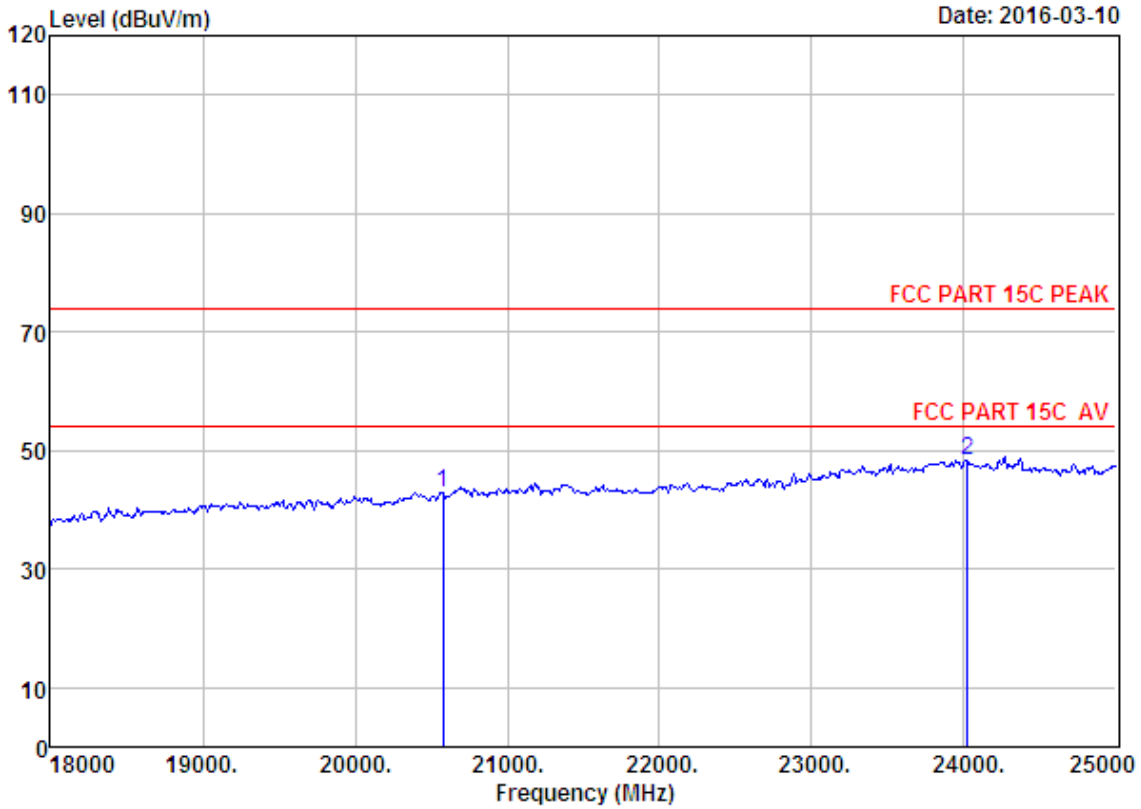
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 279
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	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	20786.00	46.18	20.04	36.00	13.50	43.72	74.00	30.28	Peak
2	23215.00	45.64	21.34	33.61	13.27	46.64	74.00	27.36	Peak

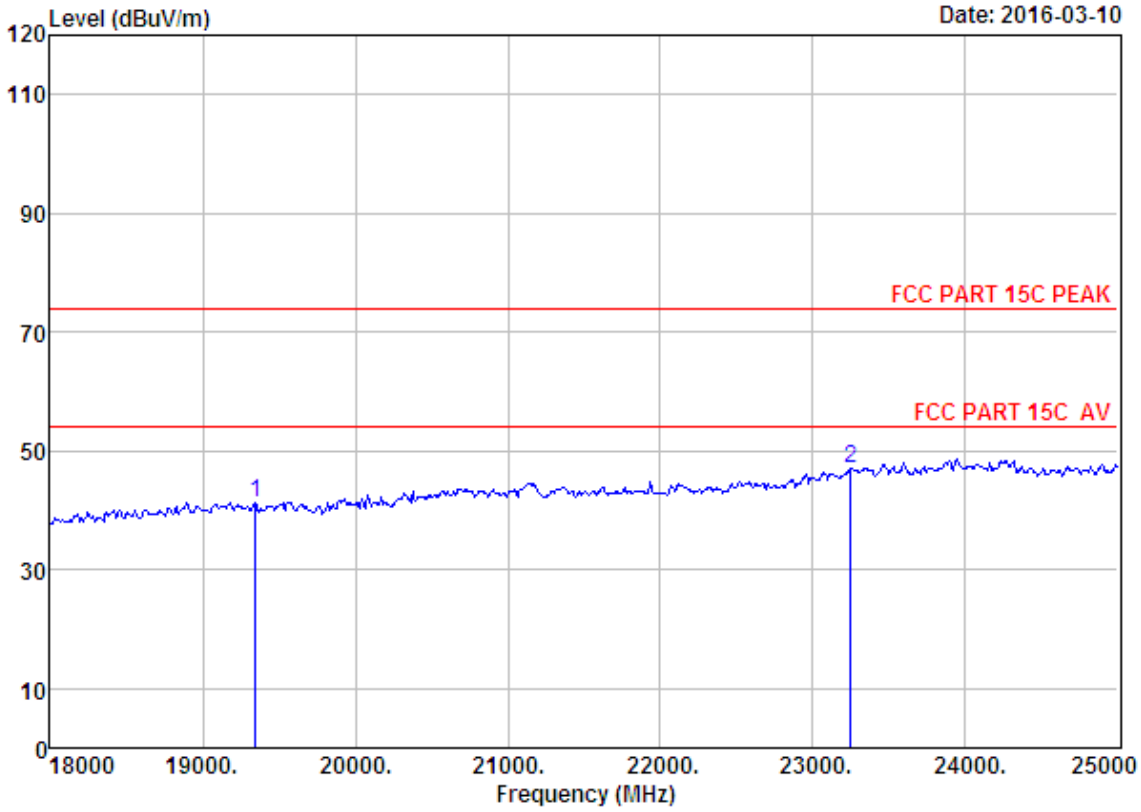
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 280
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH7 2442TX

	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	20576.00	46.04	19.94	36.18	13.05	42.85	74.00	31.15	Peak
2	24020.00	45.60	22.06	32.84	13.51	48.33	74.00	25.67	Peak

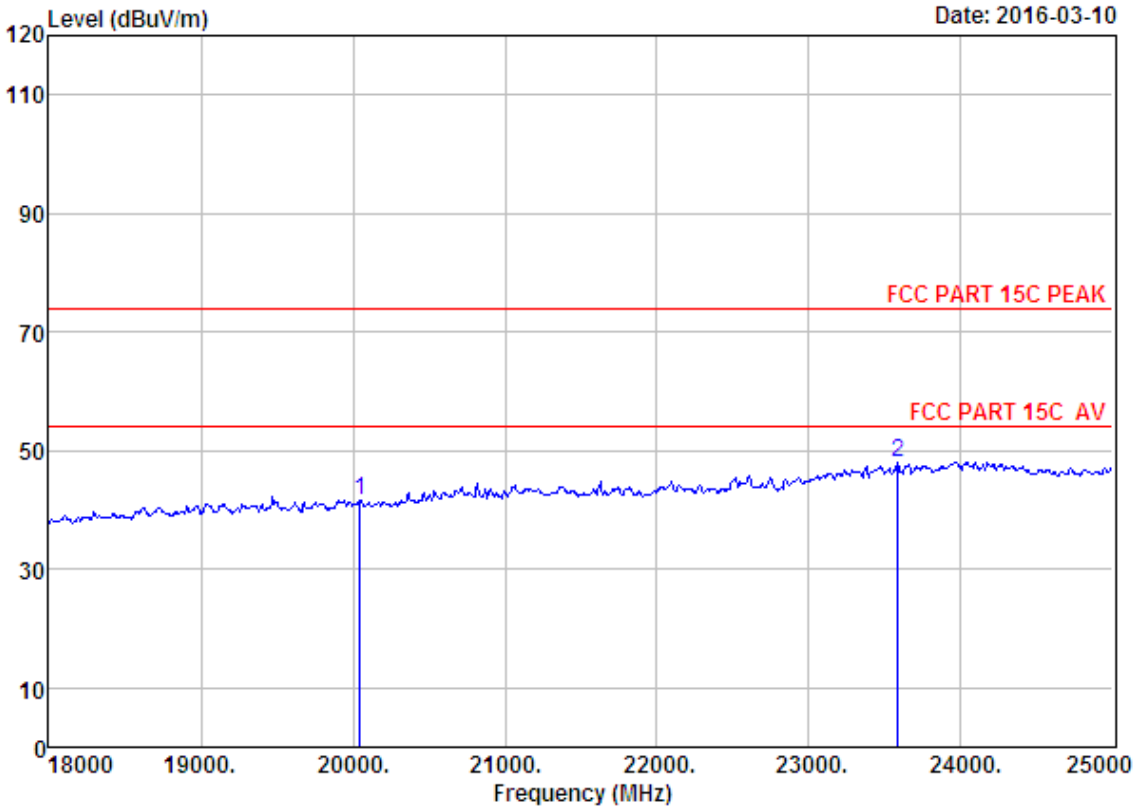
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 281
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	19344.00	45.75	18.93	36.15	12.87	41.40	74.00	32.60	Peak
2	23250.00	45.65	21.37	33.59	13.60	47.03	74.00	26.97	Peak

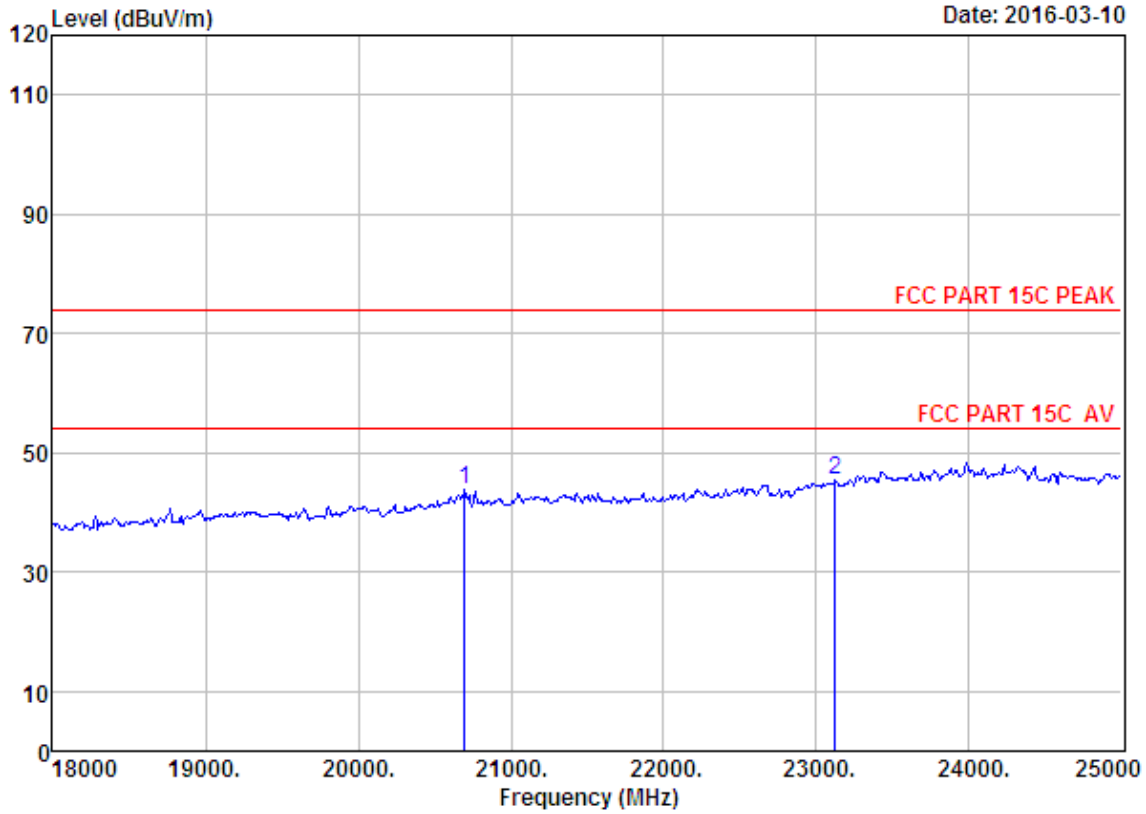
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 282
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	20044.00	46.09	19.70	36.66	12.62	41.75	74.00	32.25	Peak
2	23586.00	45.68	21.68	33.25	13.82	47.93	74.00	26.07	Peak

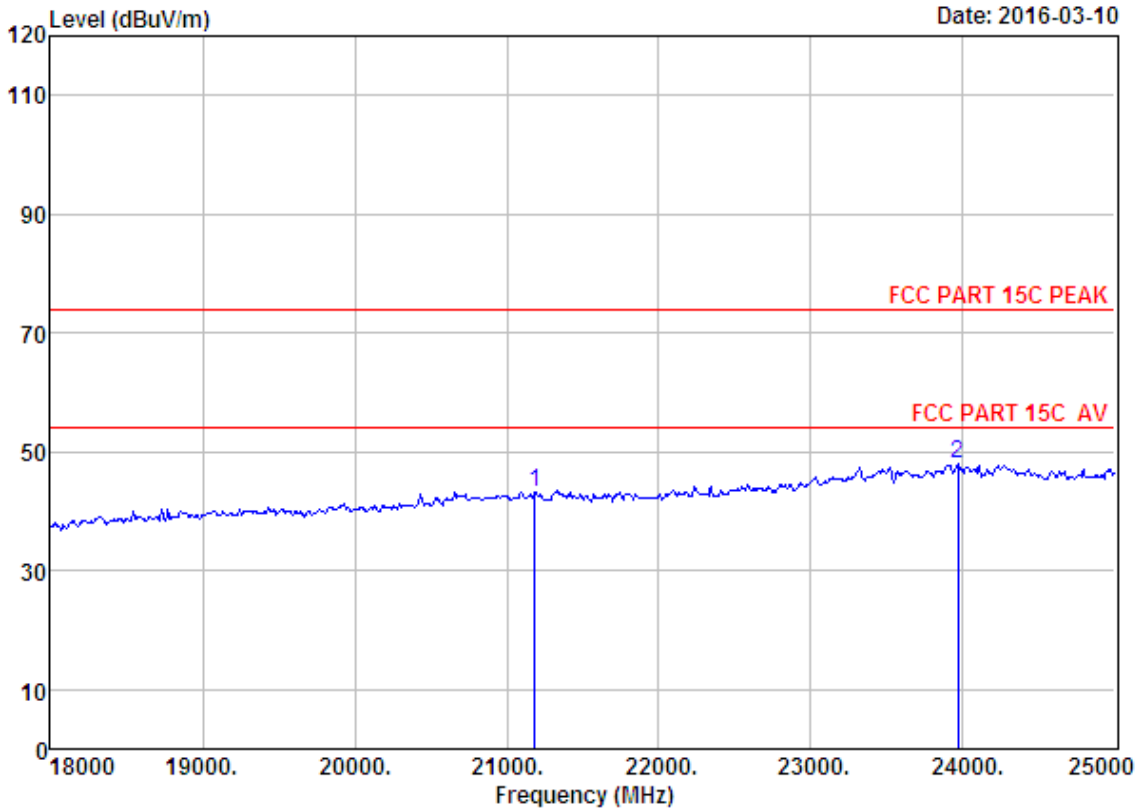
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 283
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	20695.00	46.11	19.99	36.07	13.71	43.74	74.00	30.26	Peak
2	23124.00	45.63	21.26	33.72	12.13	45.30	74.00	28.70	Peak

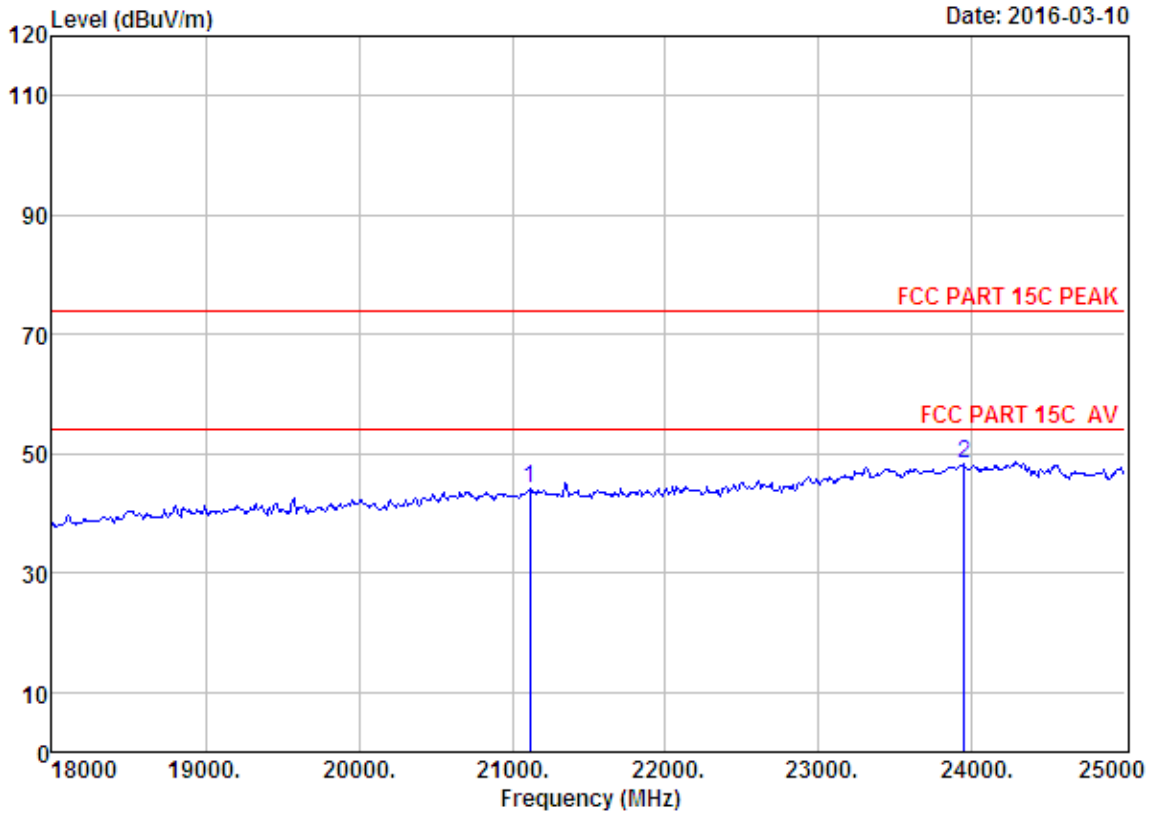
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 284
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	21185.00	46.18	20.21	35.64	12.58	43.33	74.00	30.67	Peak
2	23964.00	45.61	22.02	32.83	13.07	47.87	74.00	26.13	Peak

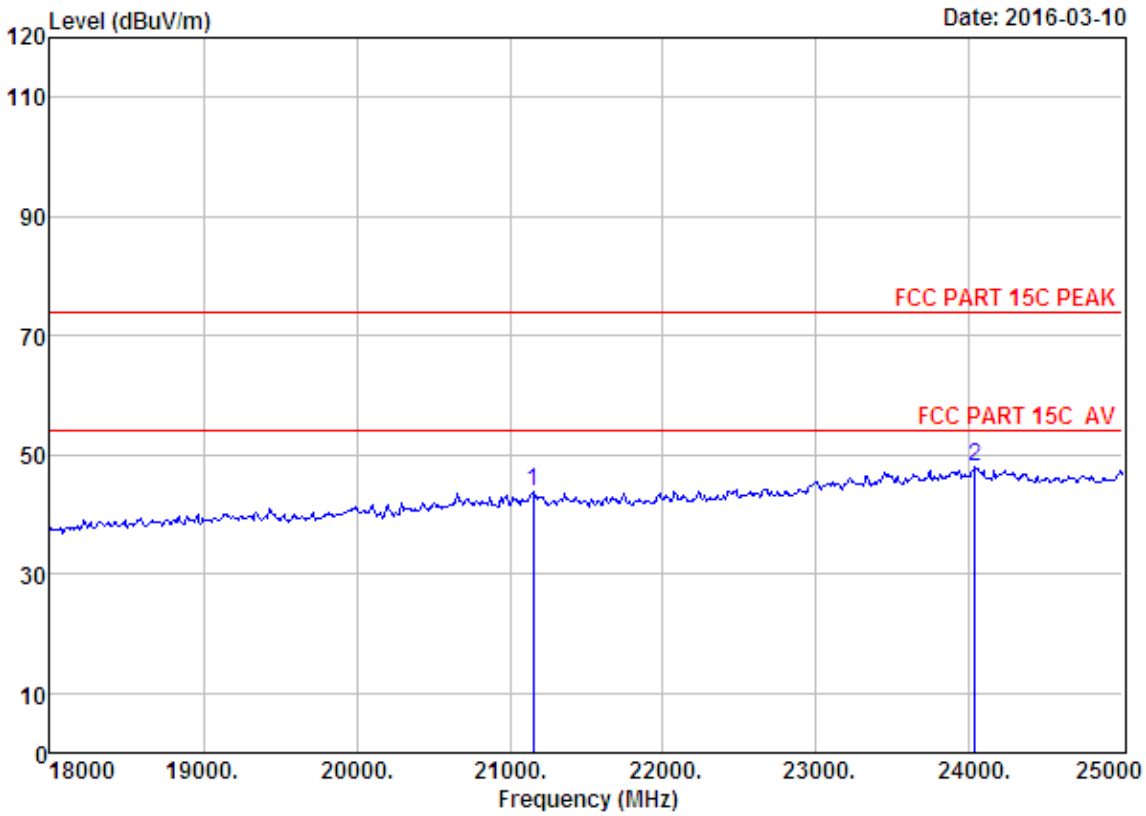
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 285
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH5 2442TX

	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	21115.00	46.22	20.18	35.69	13.49	44.20	74.00	29.80	Peak
2	23950.00	45.61	22.00	32.85	13.46	48.22	74.00	25.78	Peak

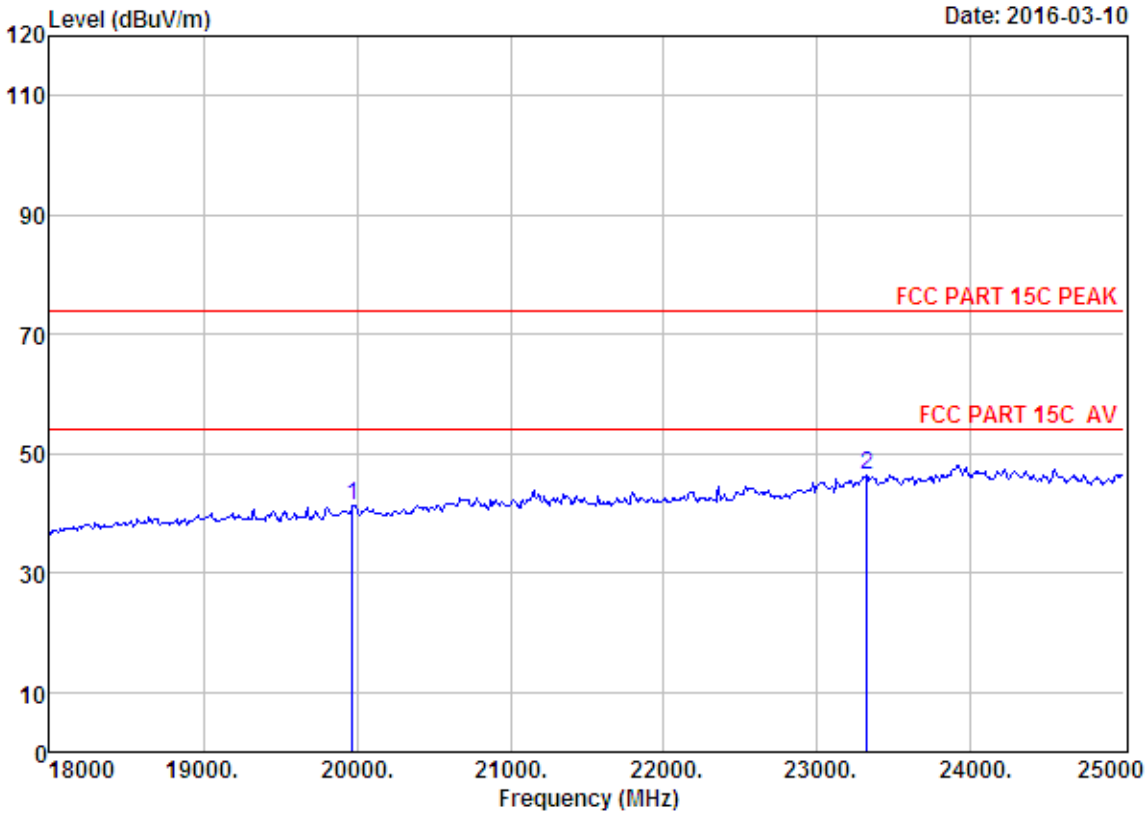
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 286
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH5 2442TX

	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	21150.00	46.21	20.20	35.67	13.03	43.77	74.00	30.23	Peak
2	24034.00	45.60	22.06	32.84	13.04	47.86	74.00	26.14	Peak

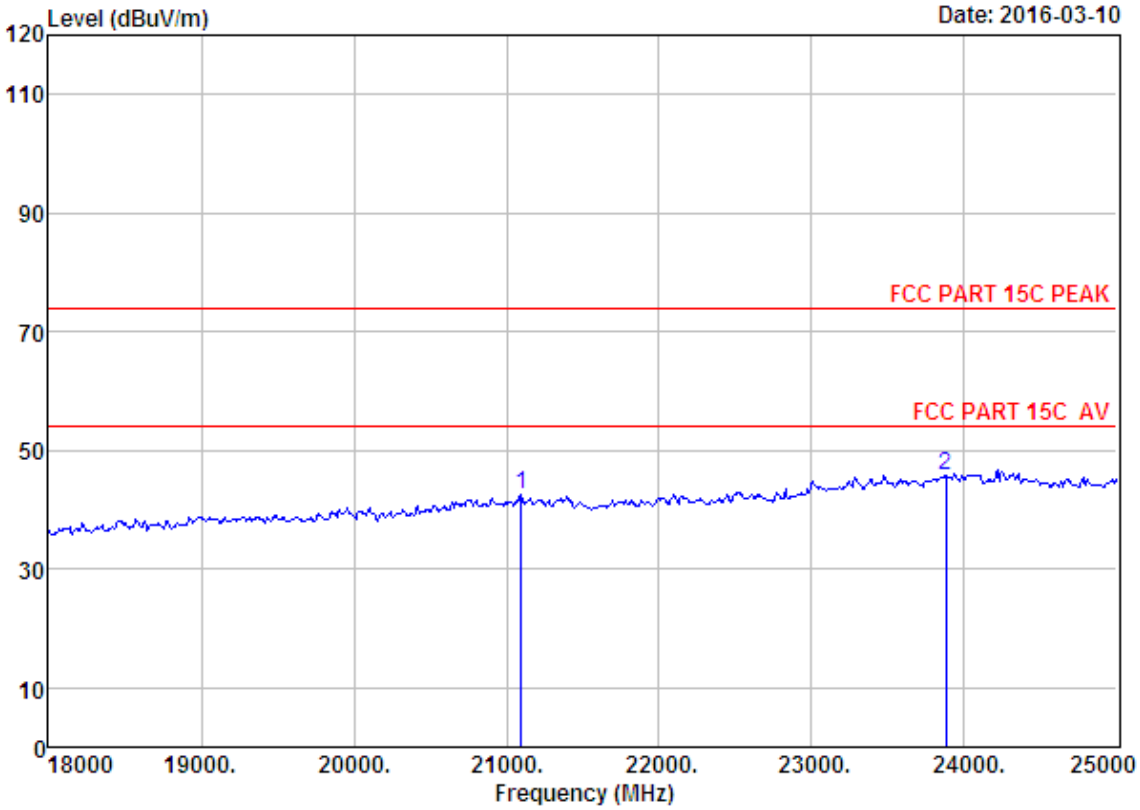
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 287
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	19974.00	46.09	19.65	36.68	12.26	41.32	74.00	32.68	Peak
2	23320.00	45.67	21.43	33.51	12.93	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. : 288
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	21094.00	46.23	20.17	35.71	11.85	42.54	74.00	31.46	Peak
2	23880.00	45.63	21.94	32.93	11.13	45.77	74.00	28.23	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 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 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:

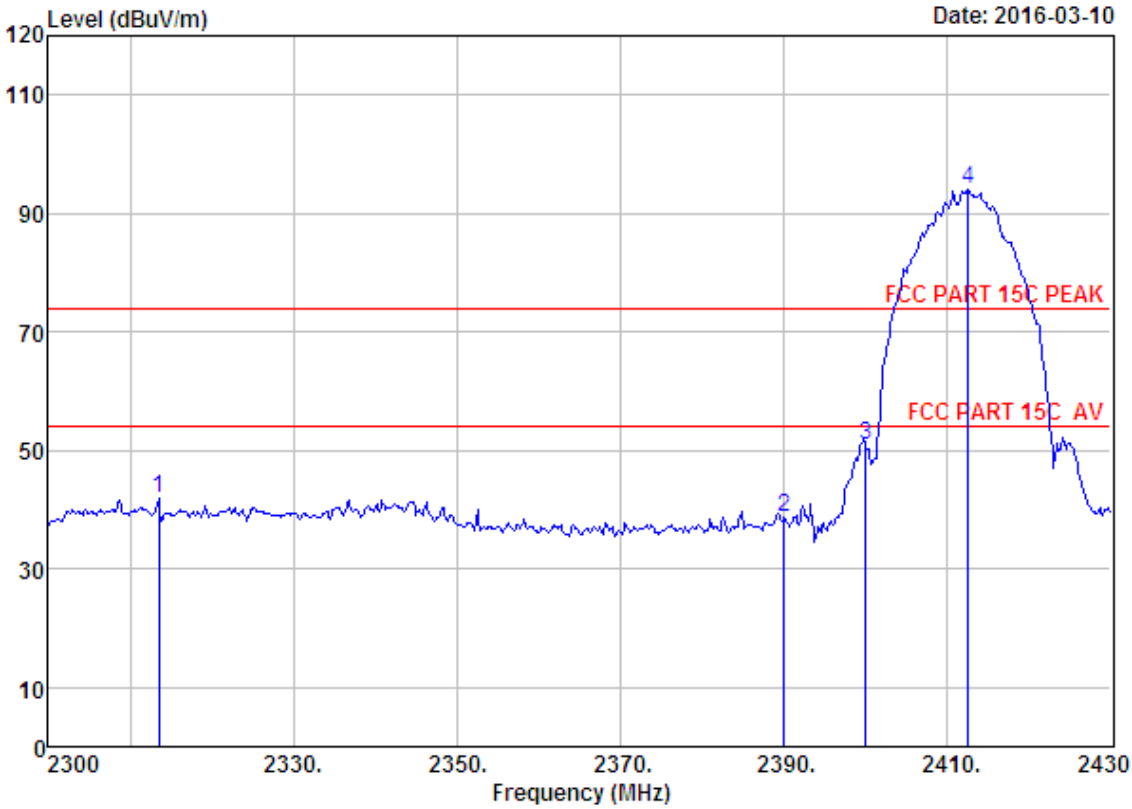
(a) Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
(b) AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto

5.3 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 2412MHz. 2422MHz . 2462MHz and 2472 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.

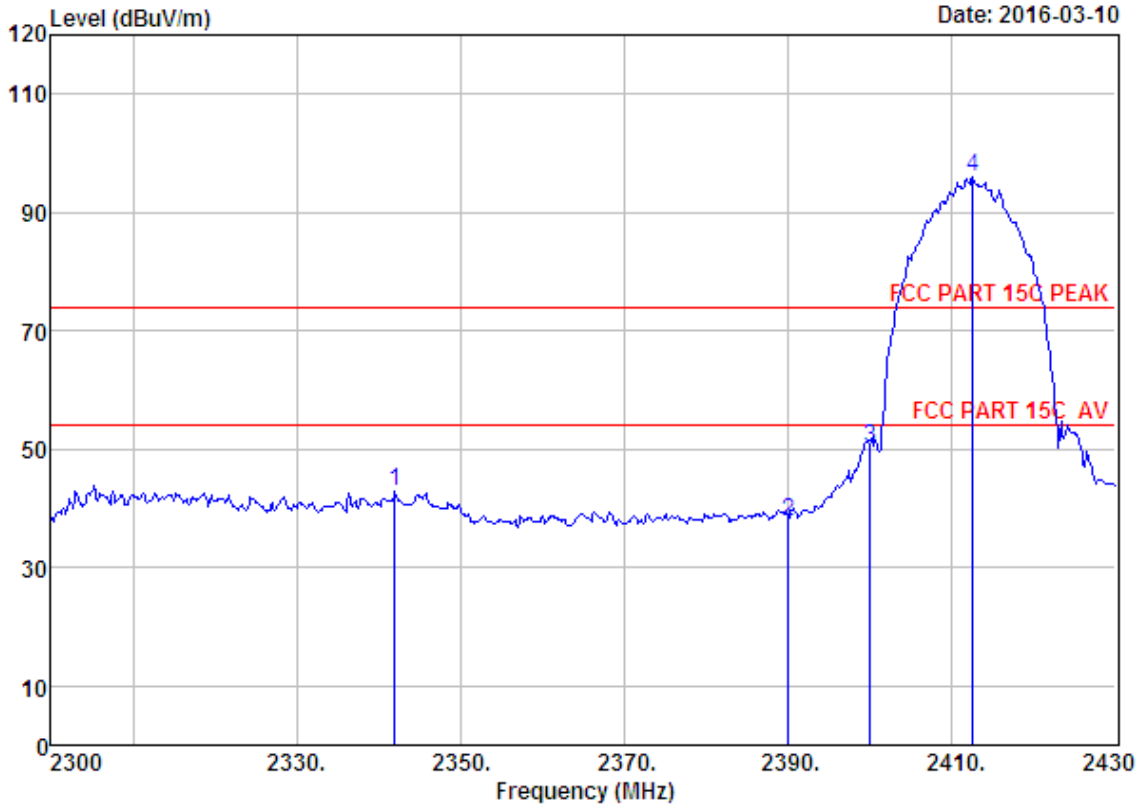
5.4 Test Data




```
Site no.        : 1# 966 chamber              Data no.  : 225
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             : LED TV
Power           : AC 120V/60Hz
M/N             : ELST5016S
Test Mode       : IEEE 802.11b CH1 2412TX
```

	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	2313.50	27.76	6.53	34.60	42.24	41.93	74.00	32.07	Peak
2	2390.00	27.64	6.62	34.62	39.10	38.74	74.00	35.26	Peak
3	2400.00	27.61	6.62	34.64	51.20	50.79	74.00	23.21	Peak
4	2412.50	27.60	6.64	34.64	94.61	94.21	74.00	-20.21	Peak

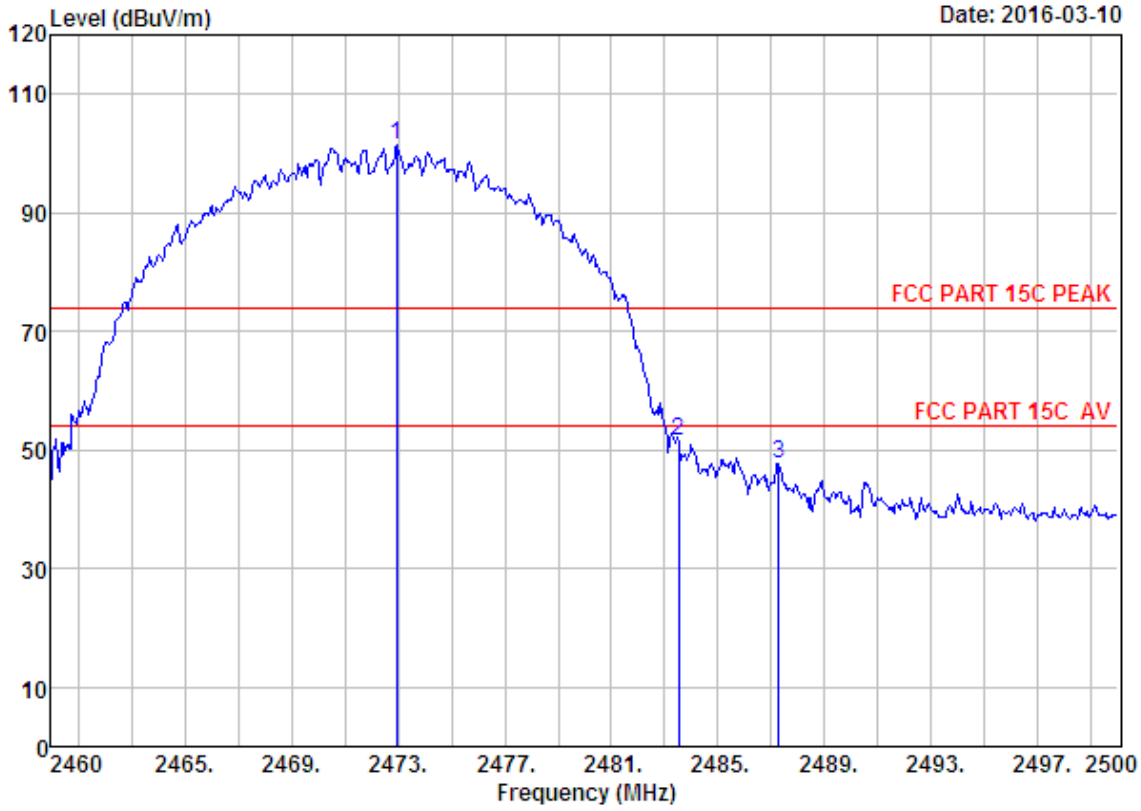
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 226
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH1 2412TX

	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	2342.00	27.70	6.56	34.59	43.19	42.86	74.00	31.14	Peak
2	2390.00	27.64	6.62	34.62	38.18	37.82	74.00	36.18	Peak
3	2400.00	27.61	6.62	34.64	50.80	50.39	74.00	23.61	Peak
4	2412.50	27.60	6.64	34.64	96.25	95.85	74.00	-21.85	Peak

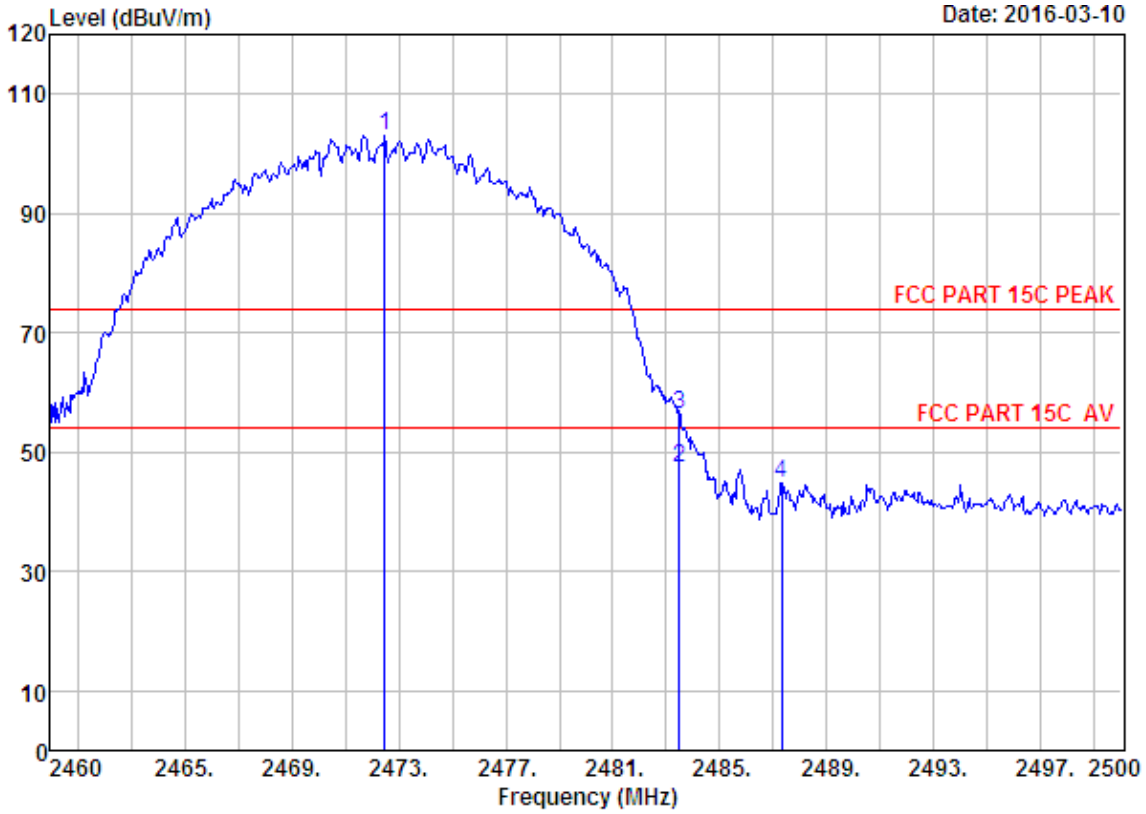
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 231
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	2472.96	27.58	6.71	35.11	102.23	101.41	74.00	-27.41	Peak
2	2483.52	27.58	6.71	35.11	52.40	51.58	74.00	22.42	Peak
3	2487.28	27.58	6.71	35.11	48.53	47.71	74.00	26.29	Peak

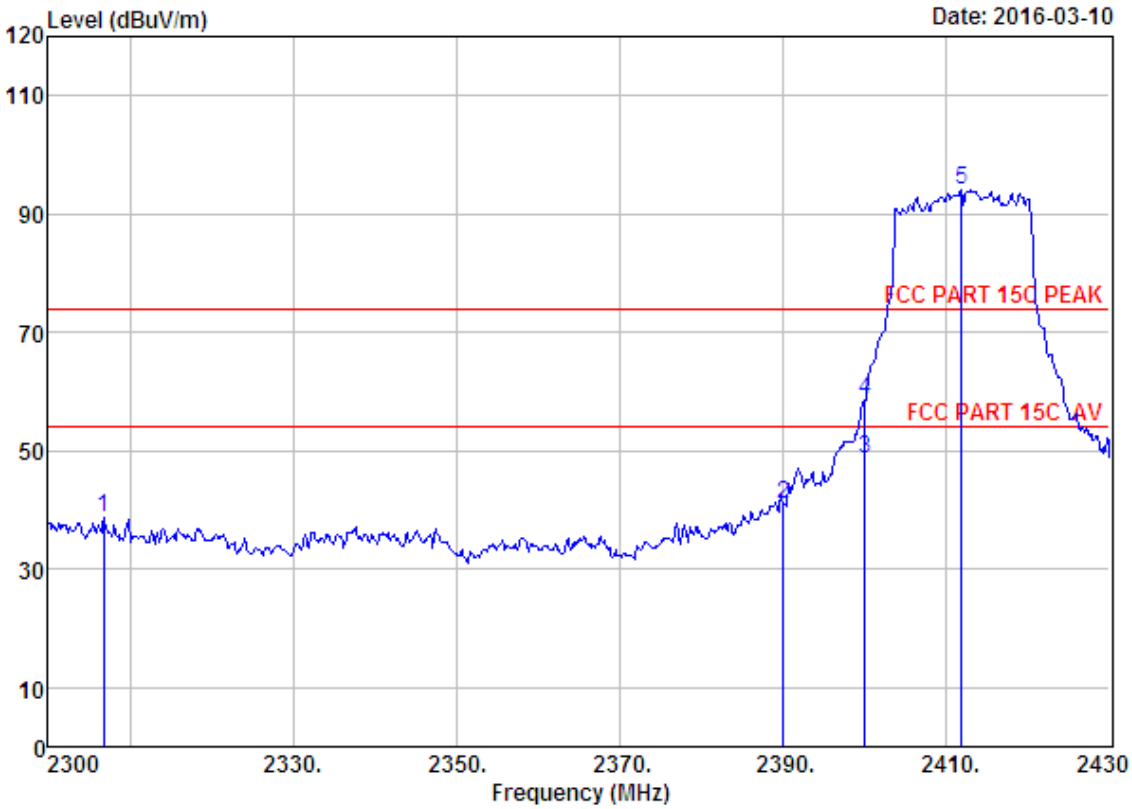
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 232
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11b CH13 2472TX

	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	2472.48	27.58	6.71	35.11	103.91	103.09	74.00	-29.09	Peak
2	2483.50	27.58	6.71	35.11	48.06	47.24	54.00	6.76	Average
3	2483.50	27.58	6.71	35.11	57.19	56.37	74.00	17.63	Peak
4	2487.32	27.58	6.71	35.11	45.76	44.94	74.00	29.06	Peak

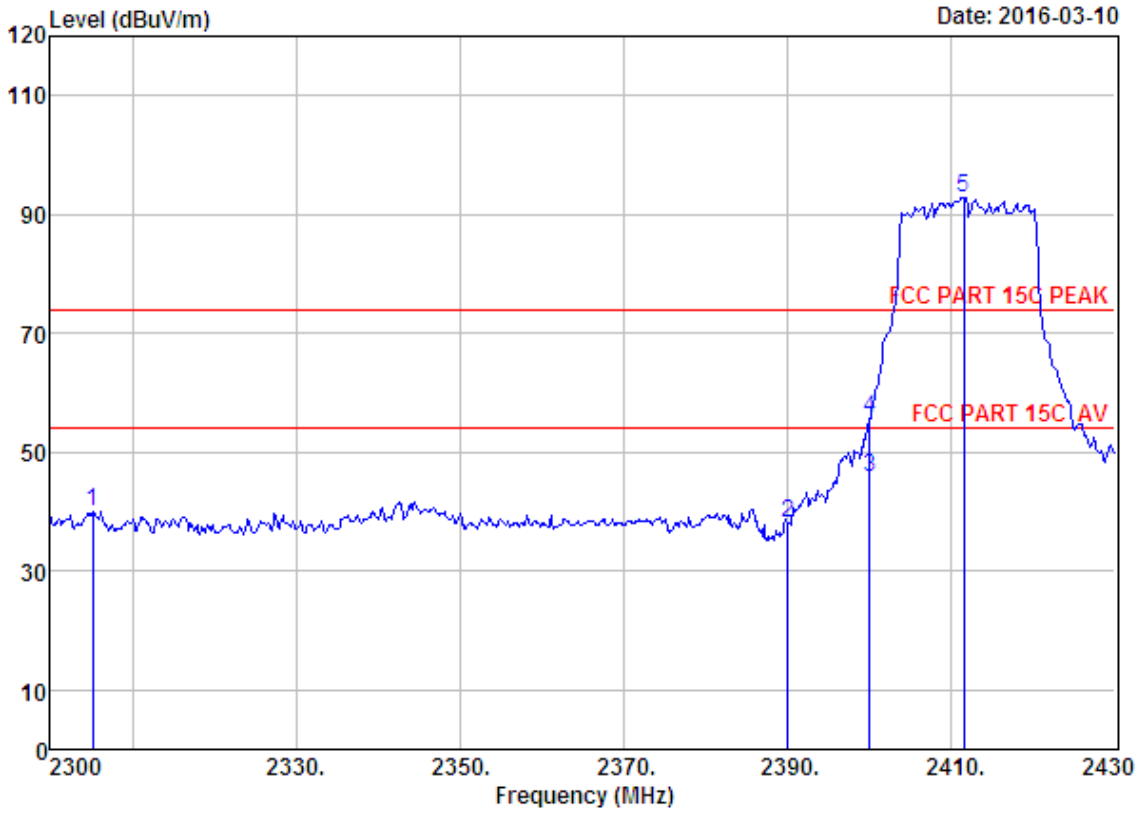
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 235
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	2306.76	27.76	6.53	34.62	39.08	38.75	74.00	35.25	Peak
2	2390.00	27.64	6.62	34.62	41.42	41.06	74.00	32.94	Peak
3	2400.00	27.61	6.62	34.64	49.20	48.79	54.00	5.21	Average
4	2400.00	27.61	6.62	34.64	59.09	58.68	74.00	15.32	Peak
5	2411.80	27.60	6.64	34.64	94.47	94.07	74.00	-20.07	Peak

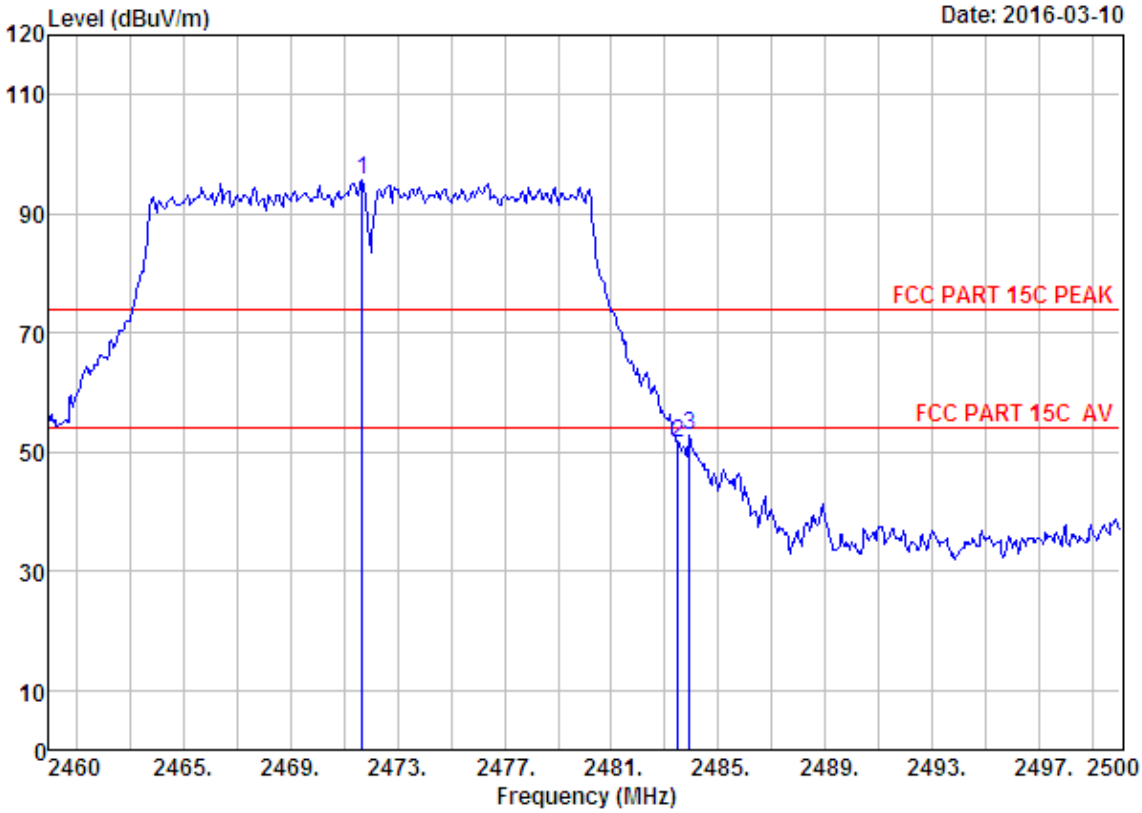
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 236
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH1 2412TX

	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	2305.20	27.76	6.53	34.62	40.30	39.97	74.00	34.03	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	46.13	45.72	54.00	8.28	Average
4	2400.00	27.61	6.62	34.64	56.07	55.66	74.00	18.34	Peak
5	2411.54	27.60	6.64	34.64	93.28	92.88	74.00	-18.88	Peak

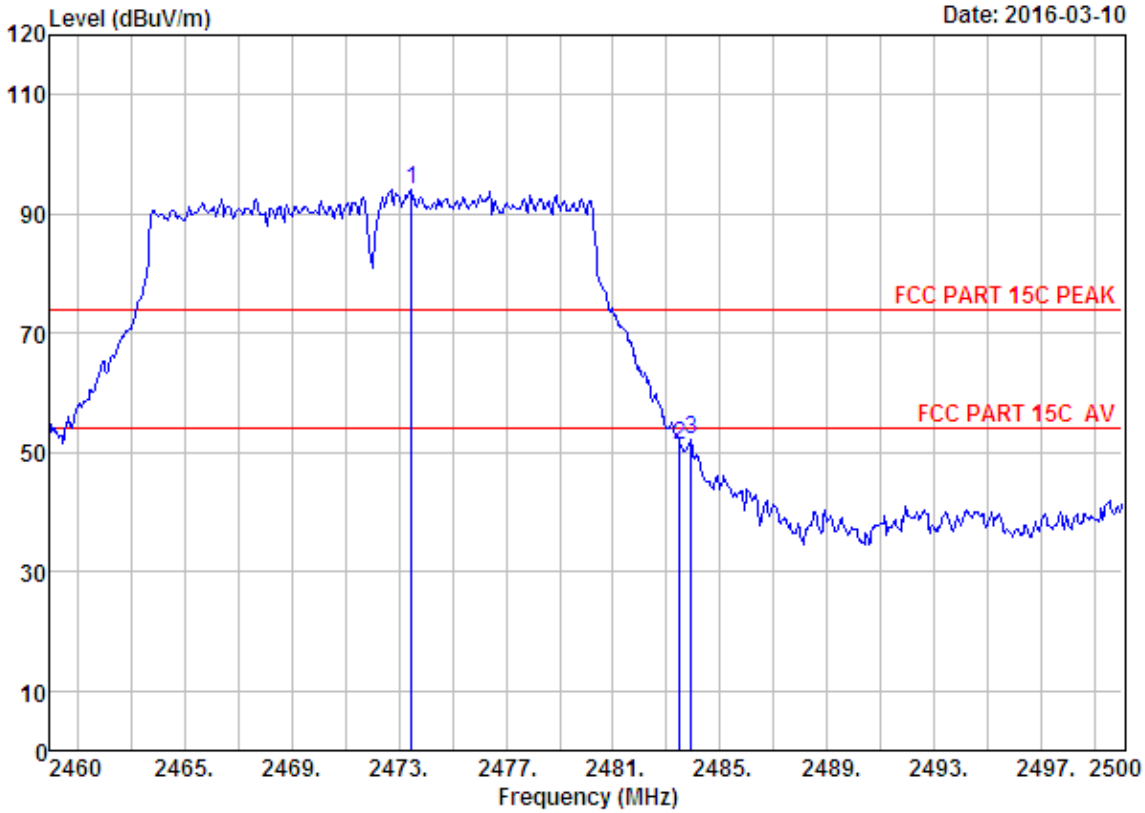
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 241
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	2471.68	27.58	6.71	35.11	96.59	95.77	74.00	-21.77	Peak
2	2483.50	27.58	6.71	35.11	52.40	51.58	74.00	22.42	Peak
3	2483.92	27.58	6.71	35.11	53.65	52.83	74.00	21.17	Peak

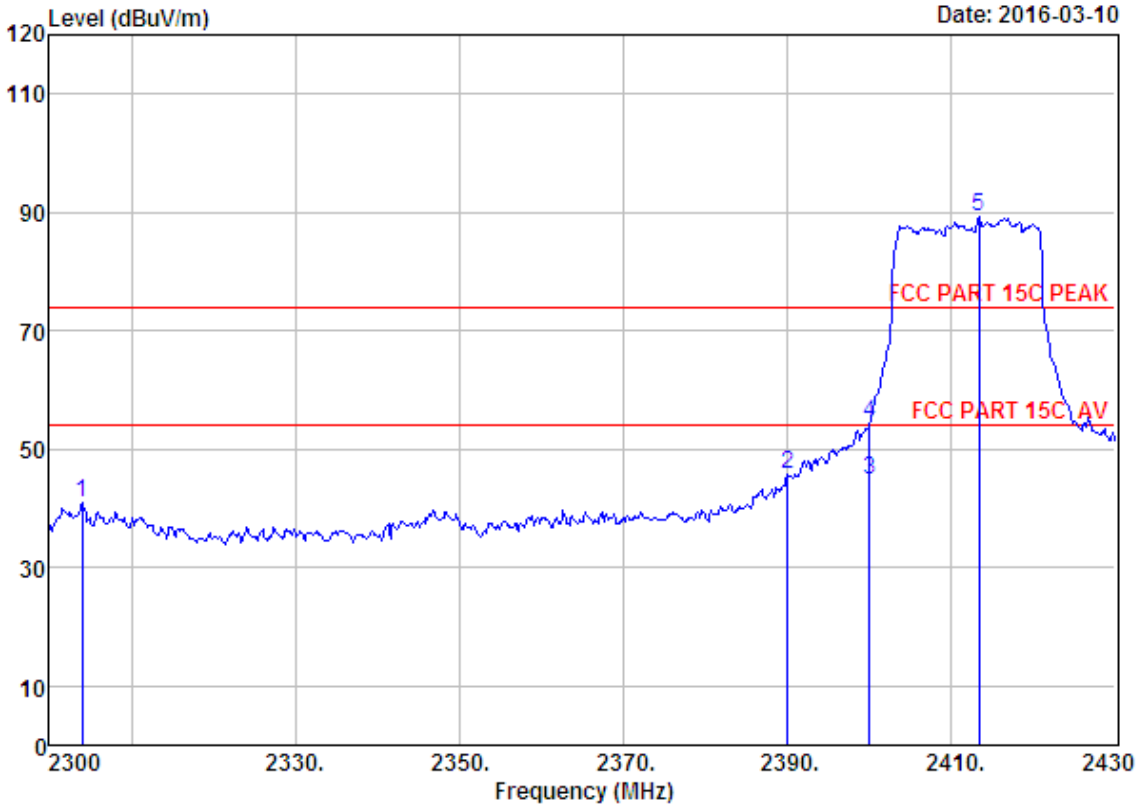
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 242
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11g CH13 2472TX

	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	2473.48	27.58	6.71	35.11	95.03	94.21	74.00	-20.21	Peak
2	2483.50	27.58	6.71	35.11	51.96	51.14	74.00	22.86	Peak
3	2483.92	27.58	6.71	35.11	52.86	52.04	74.00	21.96	Peak

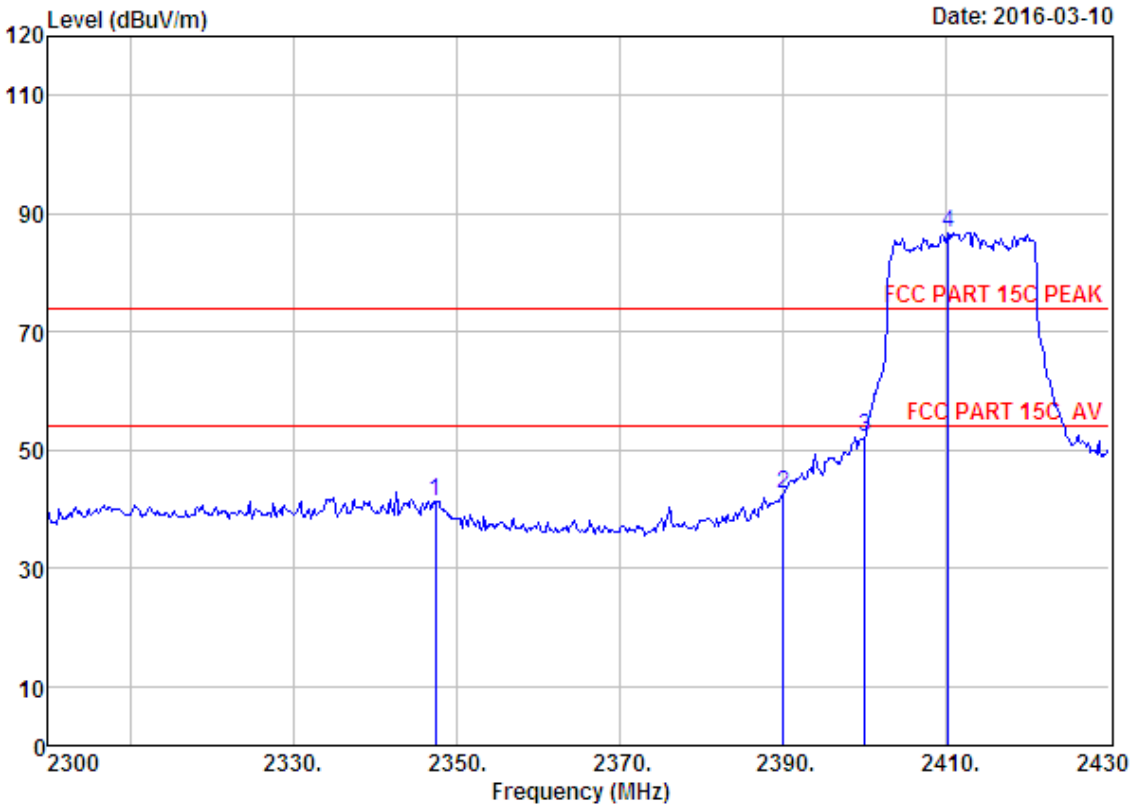
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 245
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2304.03	27.79	6.53	34.62	41.38	41.08	74.00	32.92	Peak
2	2390.00	27.64	6.62	34.62	46.00	45.64	74.00	28.36	Peak
3	2400.00	27.61	6.62	34.64	45.10	44.69	54.00	9.31	Average
4	2400.00	27.61	6.62	34.64	54.75	54.34	74.00	19.66	Peak
5	2413.36	27.60	6.64	34.64	89.60	89.20	74.00	-15.20	Peak

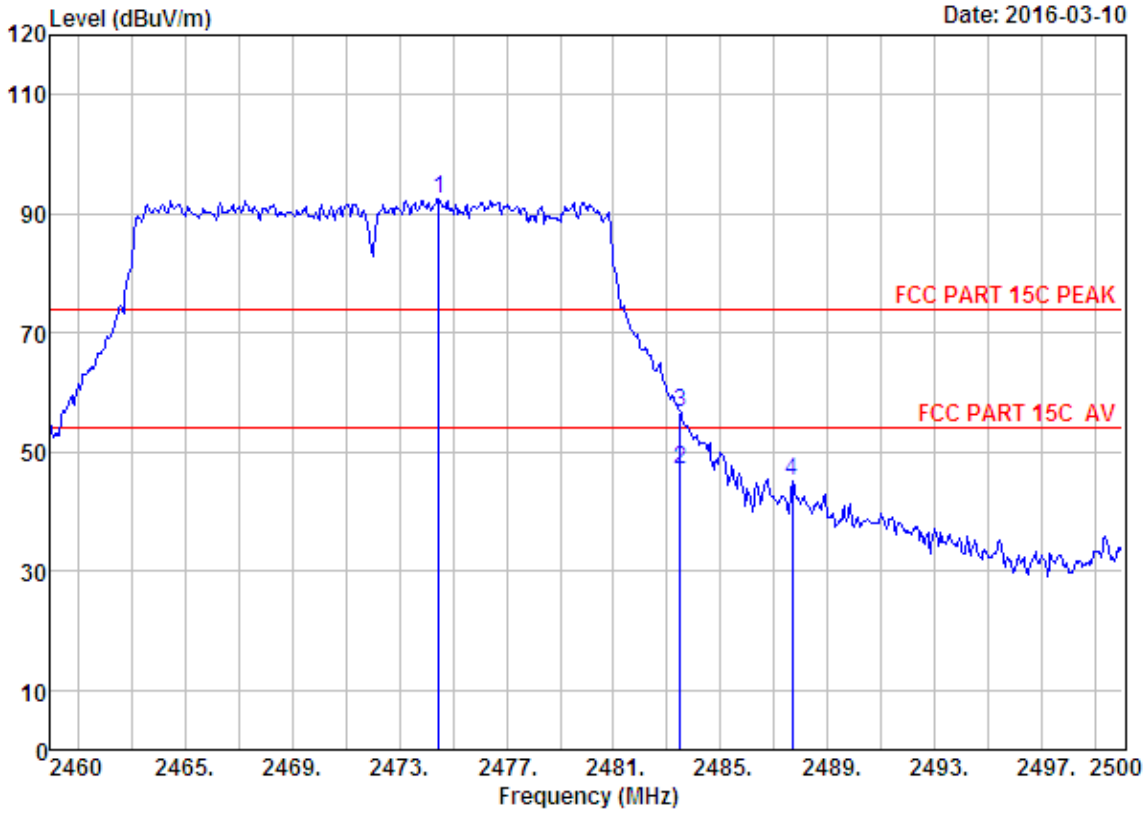
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 246
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2347.45	27.70	6.56	34.57	41.68	41.37	74.00	32.63	Peak
2	2390.00	27.64	6.62	34.62	42.92	42.56	74.00	31.44	Peak
3	2400.00	27.61	6.62	34.64	52.61	52.20	74.00	21.80	Peak
4	2410.24	27.60	6.64	34.64	87.26	86.86	74.00	-12.86	Peak

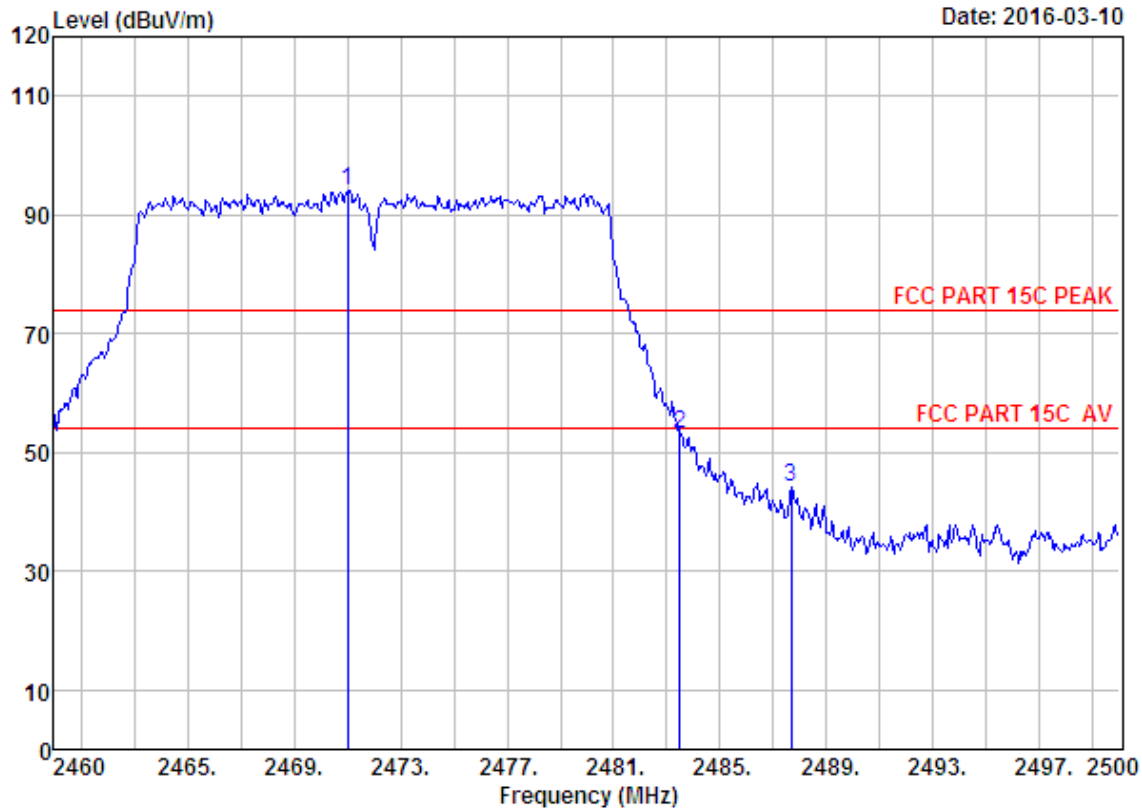
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 251
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	2474.48	27.58	6.71	35.11	93.38	92.56	74.00	-18.56	Peak
2	2483.50	27.58	6.71	35.11	48.02	47.20	54.00	6.80	Average
3	2483.50	27.58	6.71	35.11	57.52	56.70	74.00	17.30	Peak
4	2487.68	27.58	6.73	35.11	45.93	45.13	74.00	28.87	Peak

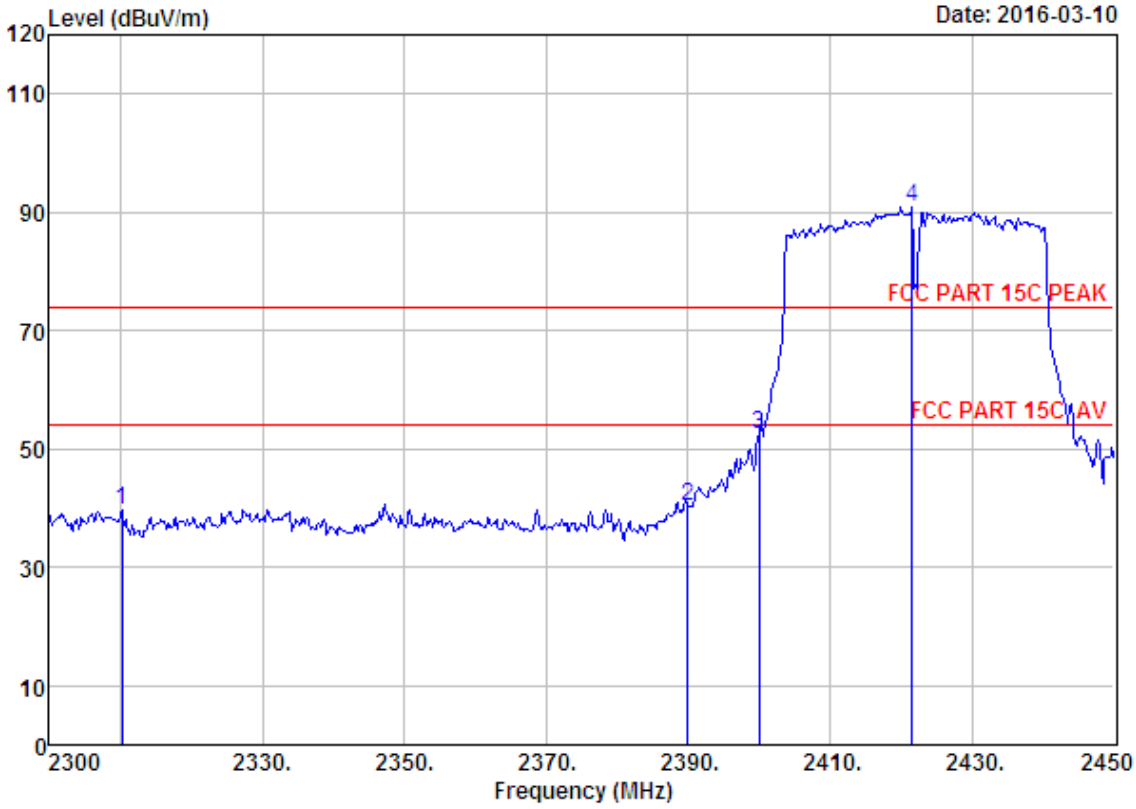
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 252
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT20 CH13 2472TX

	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	2471.00	27.58	6.71	35.11	94.92	94.10	74.00	-20.10	Peak
2	2483.50	27.58	6.71	35.11	53.81	52.99	74.00	21.01	Peak
3	2487.68	27.58	6.73	35.11	44.93	44.13	74.00	29.87	Peak

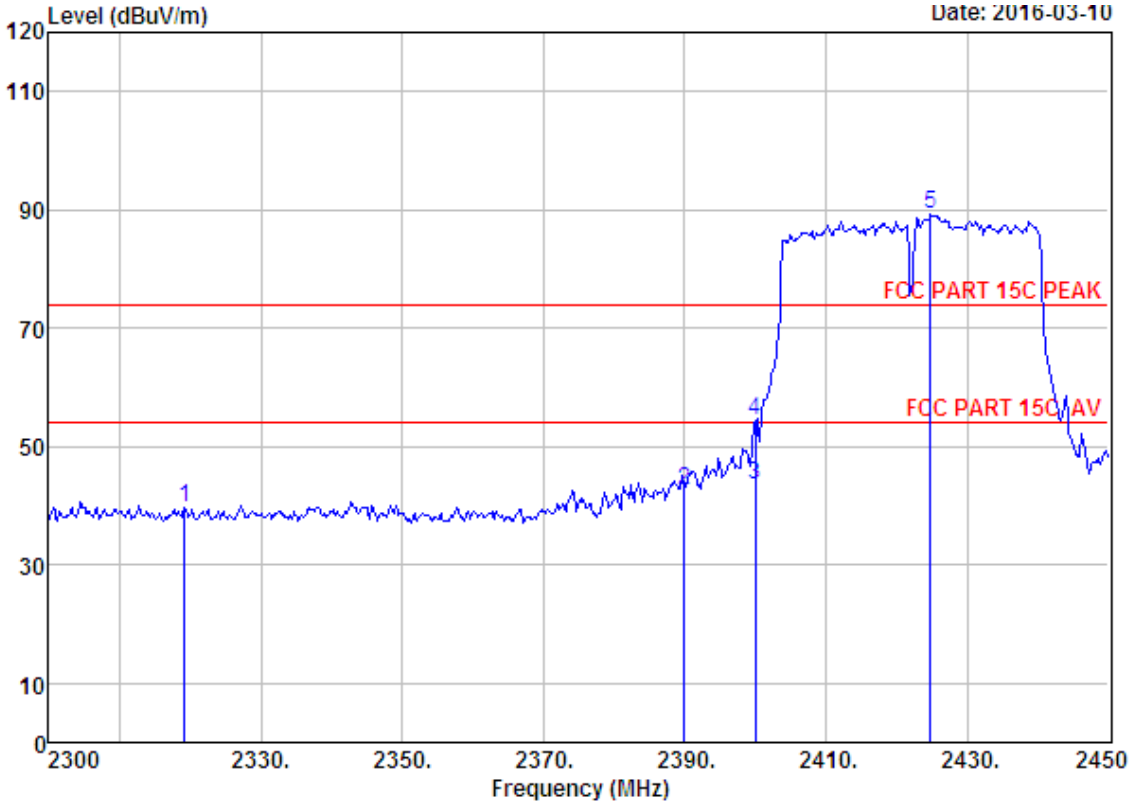
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 255
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	2310.20	27.76	6.53	34.60	40.12	39.81	74.00	34.19	Peak
2	2390.00	27.64	6.62	34.62	40.61	40.25	74.00	33.75	Peak
3	2400.00	27.61	6.62	34.64	52.85	52.44	74.00	21.56	Peak
4	2421.50	27.60	6.66	34.74	91.25	90.77	74.00	-16.77	Peak

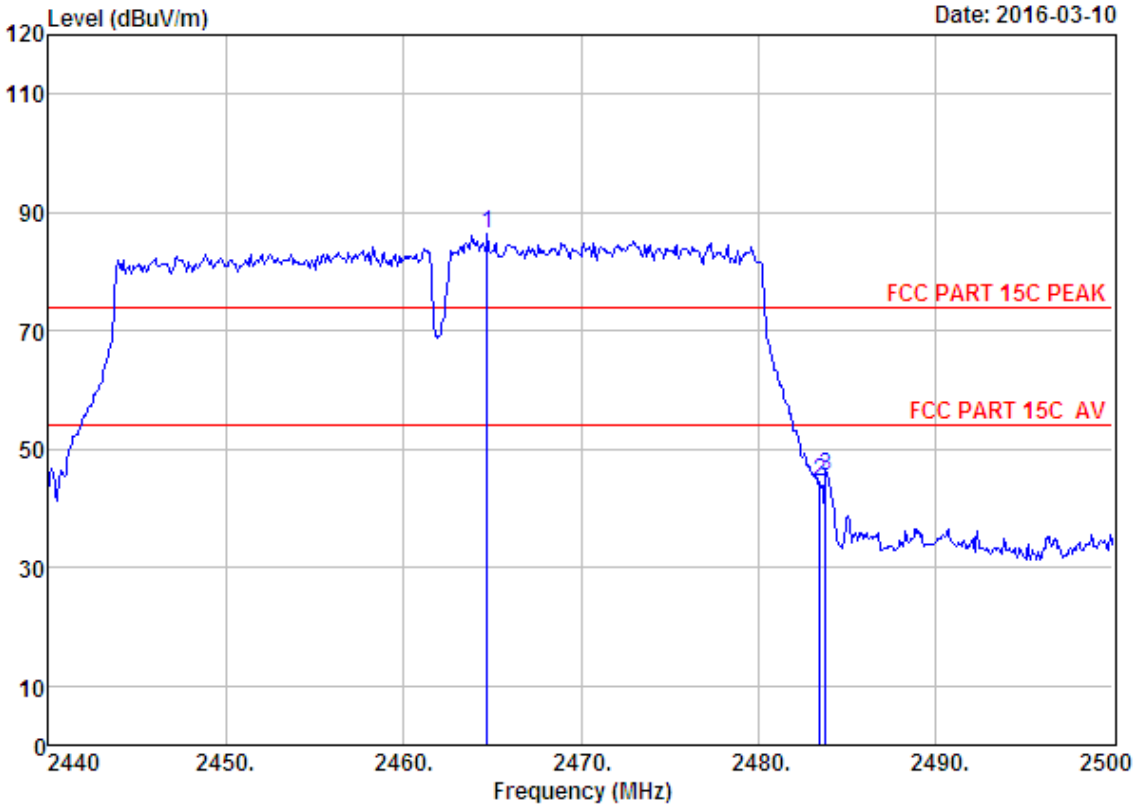
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 256
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH1 2422TX

	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	2319.20	27.76	6.54	34.60	40.10	39.80	74.00	34.20	Peak
2	2390.00	27.64	6.62	34.62	43.02	42.66	74.00	31.34	Peak
3	2400.00	27.61	6.62	34.64	44.06	43.65	54.00	10.35	Average
4	2400.00	27.61	6.62	34.64	54.83	54.42	74.00	19.58	Peak
5	2424.80	27.60	6.66	34.74	89.62	89.14	74.00	-15.14	Peak

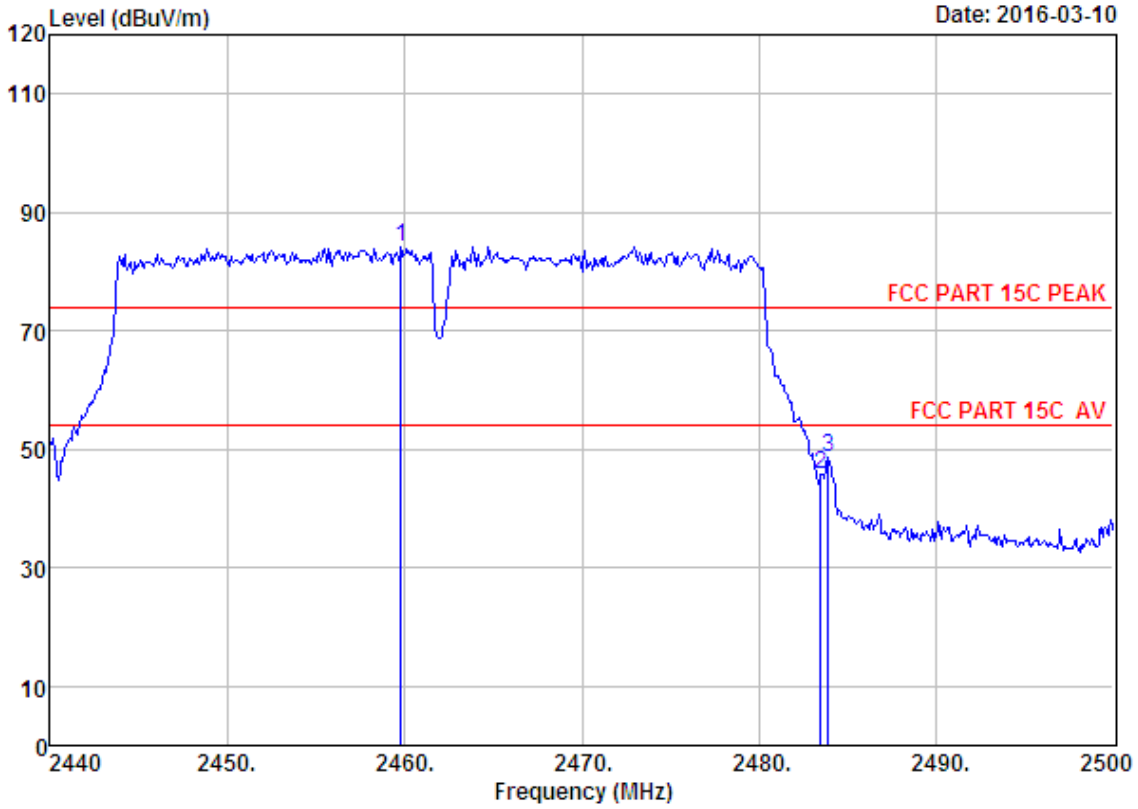
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 261
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	2464.72	27.58	6.69	34.98	87.09	86.38	74.00	-12.38	Peak
2	2483.50	27.58	6.71	35.11	45.35	44.53	74.00	29.47	Peak
3	2483.80	27.58	6.71	35.11	46.25	45.43	74.00	28.57	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. : 262
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 : LED TV
Power : AC 120V/60Hz
M/N : ELST5016S
Test Mode : IEEE 802.11n HT40 CH9 2462TX

	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	2459.80	27.59	6.69	34.98	84.76	84.06	74.00	-10.06	Peak
2	2483.50	27.58	6.71	35.11	46.46	45.64	74.00	28.36	Peak
3	2483.92	27.58	6.71	35.11	49.30	48.48	74.00	25.52	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.

6 6dB & 20dB Bandwidth Test

6.1 Limit

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

6.2 Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1). Set resolution bandwidth (RBW) = 100 kHz.
(2). Set the video bandwidth (VBW) ≥ 3 x 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.

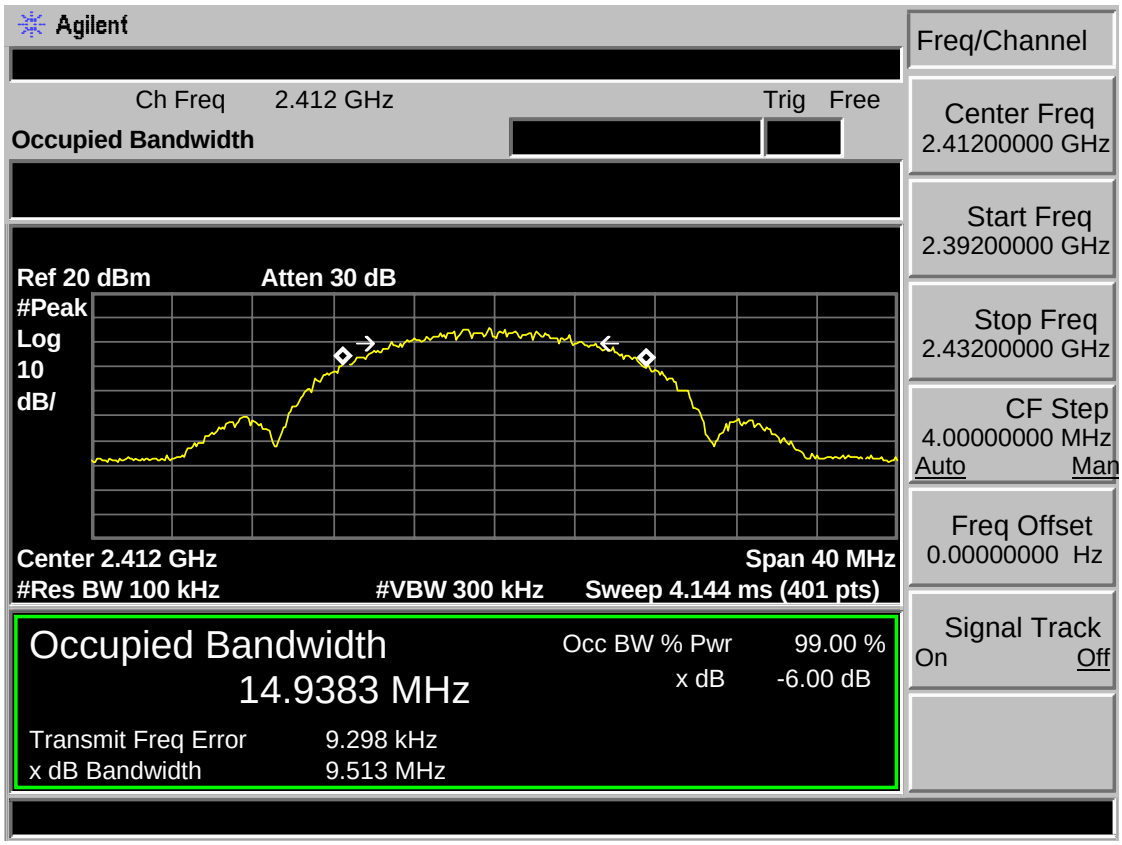
6.3 Test Result

EUT: LED TV			
M/N: ELST5016S			
Test date: 2016-03-14		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth（MHz）	Limit (KHz)
IEEE 802.11 b	CH1	9.513	>500
	CH7	9.515	>500
	CH13	9.501	>500
IEEE 802.11 g	CH1	16.634	>500
	CH7	16.621	>500
	CH13	16.641	>500
IEEE 802.11 n HT 20	CH1	17.850	>500
	CH7	17.860	>500
	CH13	17.850	>500
IEEE 802.11 n HT 40	CH1	36.430	>500
	CH5	36.460	>500
	CH9	36.490	>500
Conclusion：PASS			

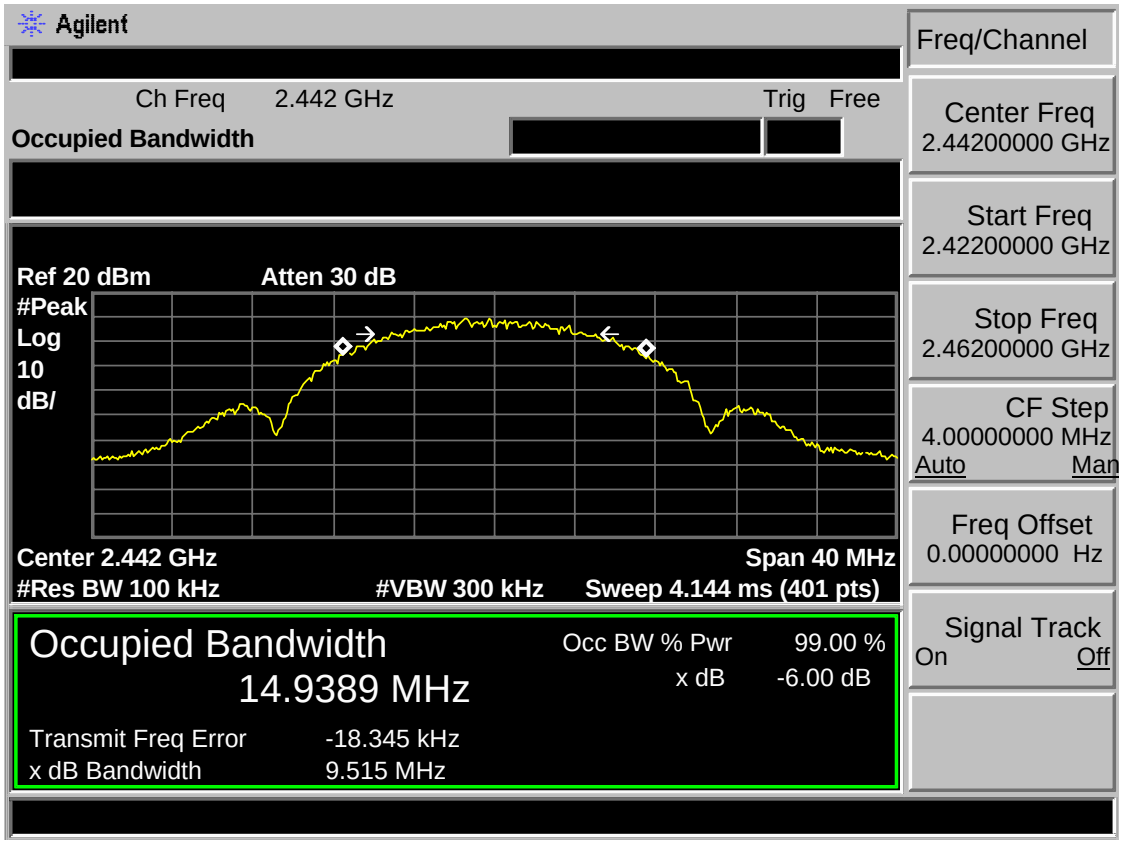
EUT: LED TV			
M/N: ELST5016S			
Test date: 2016-03-14		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	20dB bandwidth（MHz）	Limit (KHz)
IEEE 802.11 b	CH1	17.505	/
	CH7	17.471	/
	CH13	17.274	/
IEEE 802.11 g	CH1	19.558	/
	CH7	19.563	/
	CH13	19.450	/
IEEE 802.11 n HT 20	CH1	20.363	/
	CH7	20.316	/
	CH13	20.281	/
IEEE 802.11 n HT 40	CH1	40.063	/
	CH5	40.135	/
	CH9	40.013	/
Conclusion：PASS			

6.4 6dB Test Data

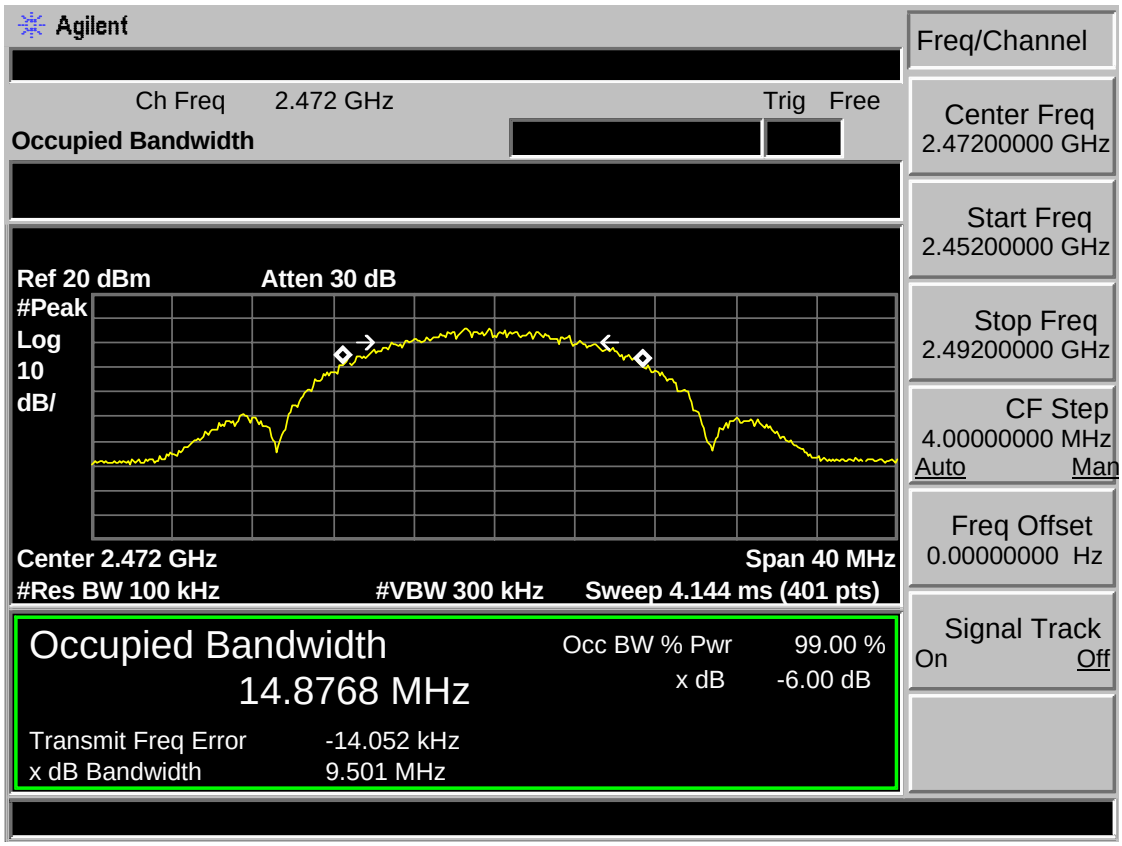
Test Mode: IEEE 802.11b 2412MHz



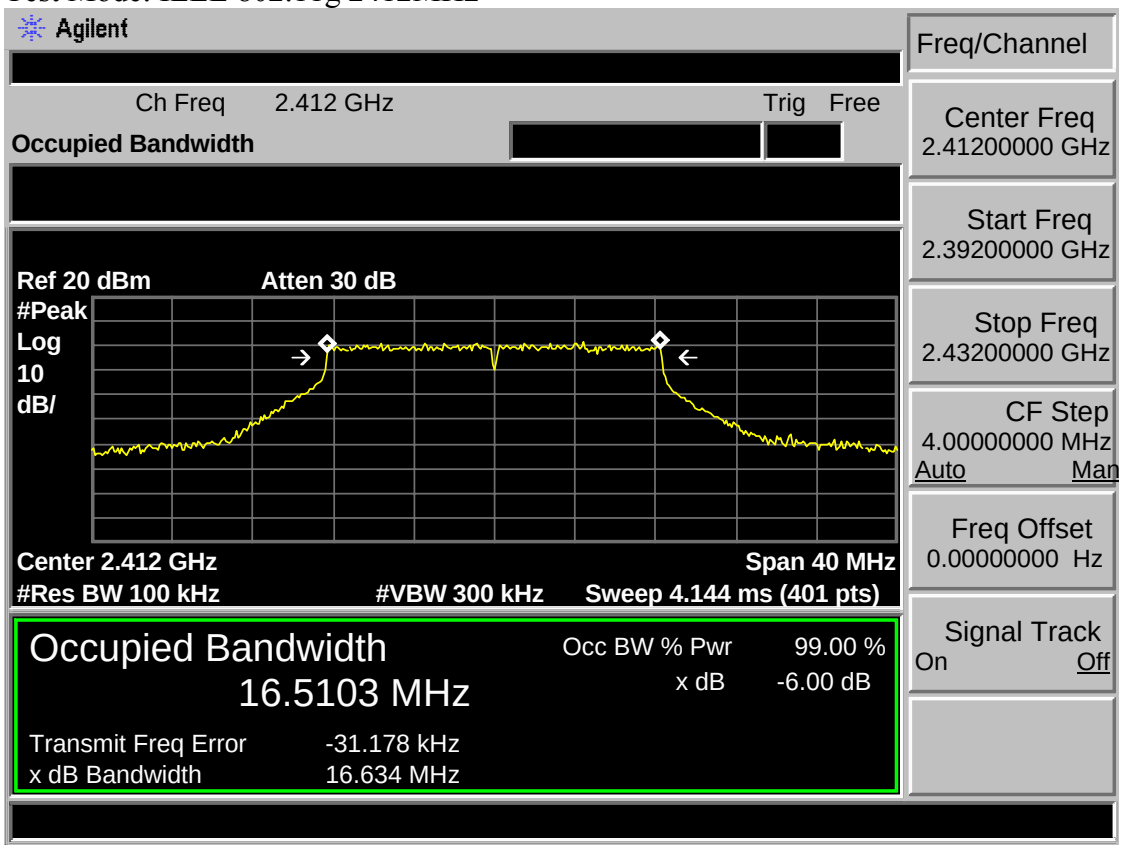
Test Mode: IEEE 802.11b 2442MHz



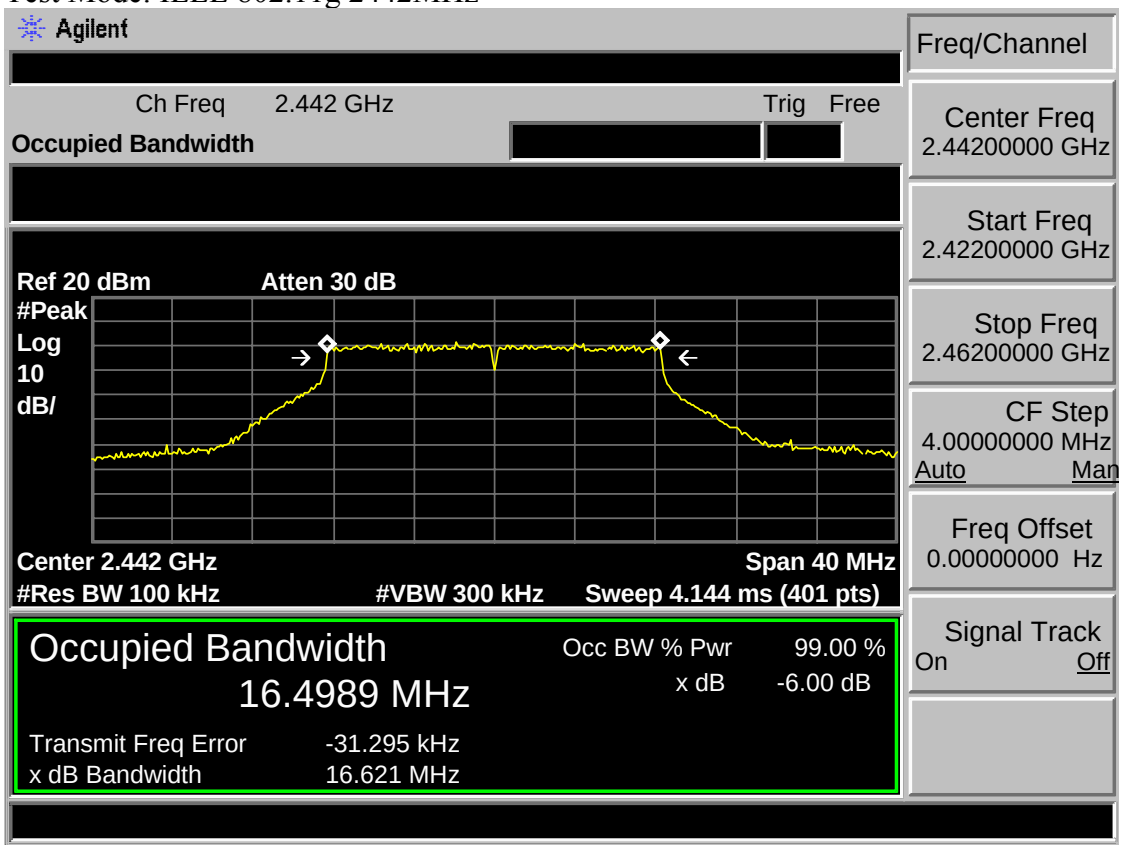
Test Mode: IEEE 802.11b 2472MHz



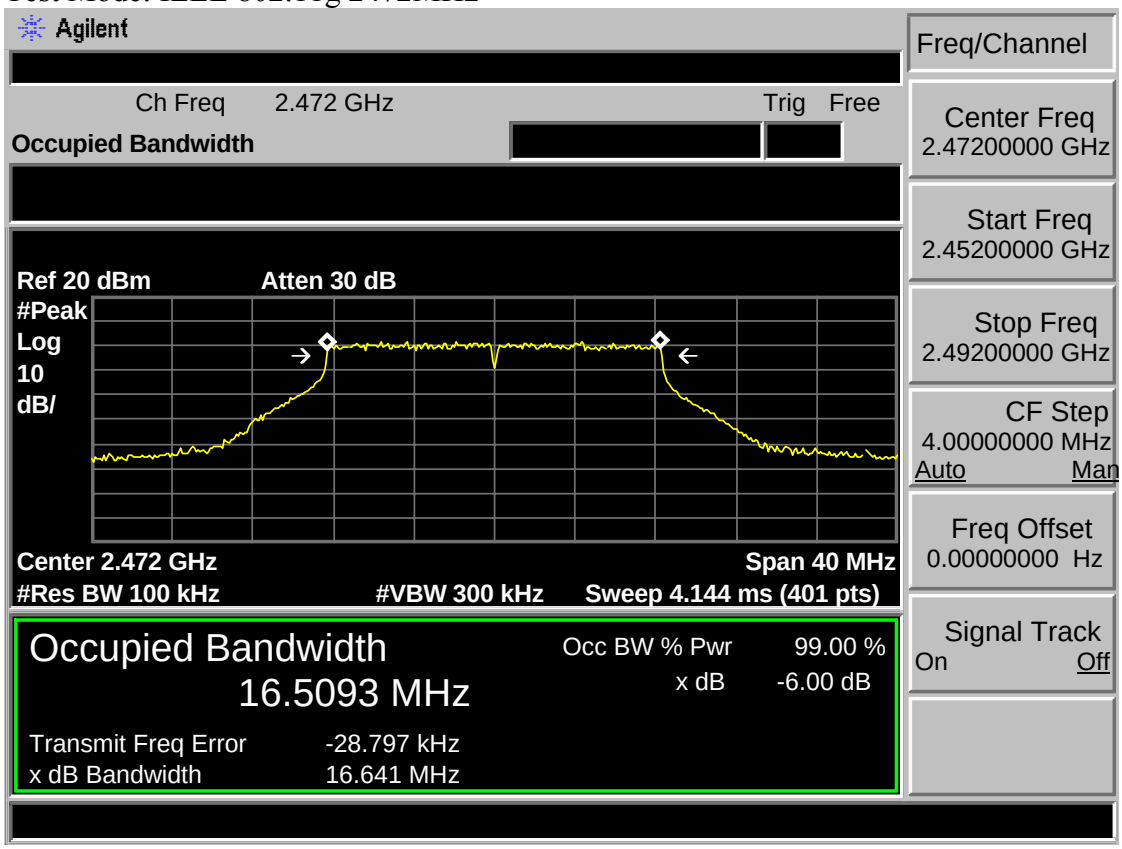
Test Mode: IEEE 802.11g 2412MHz



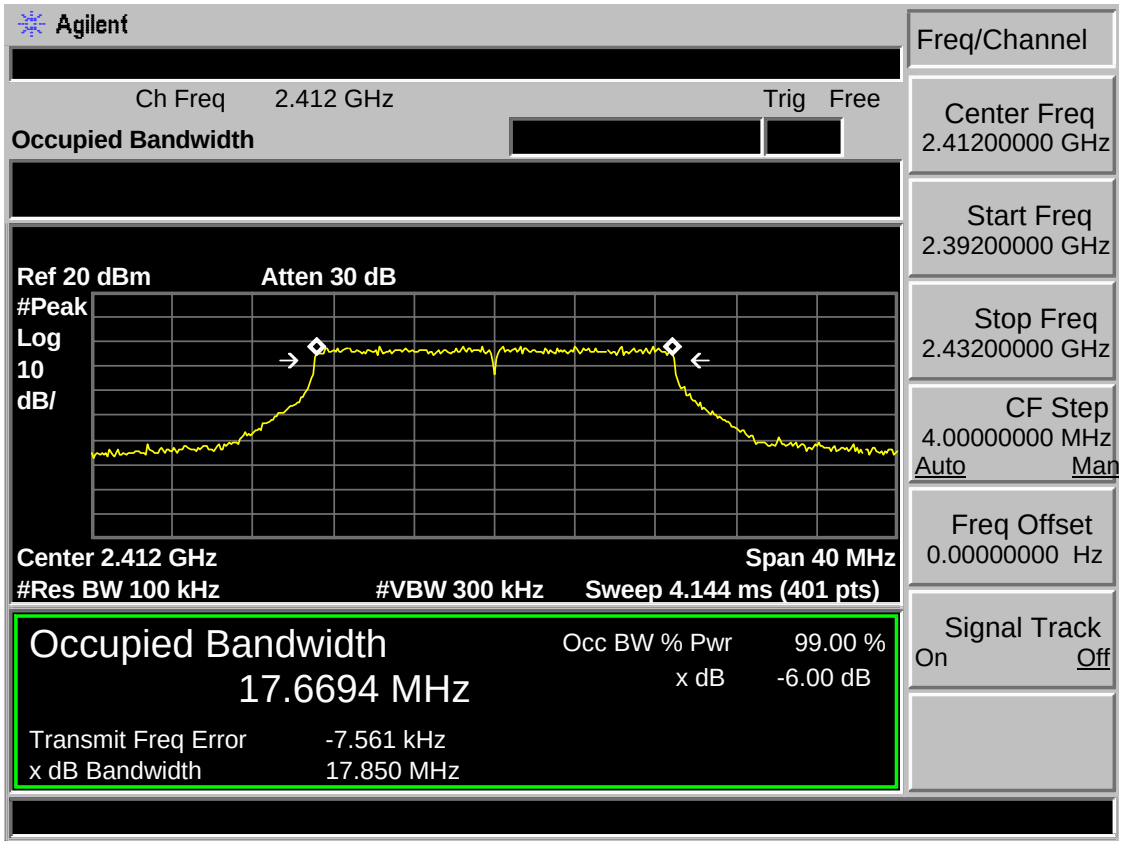
Test Mode: IEEE 802.11g 2442MHz



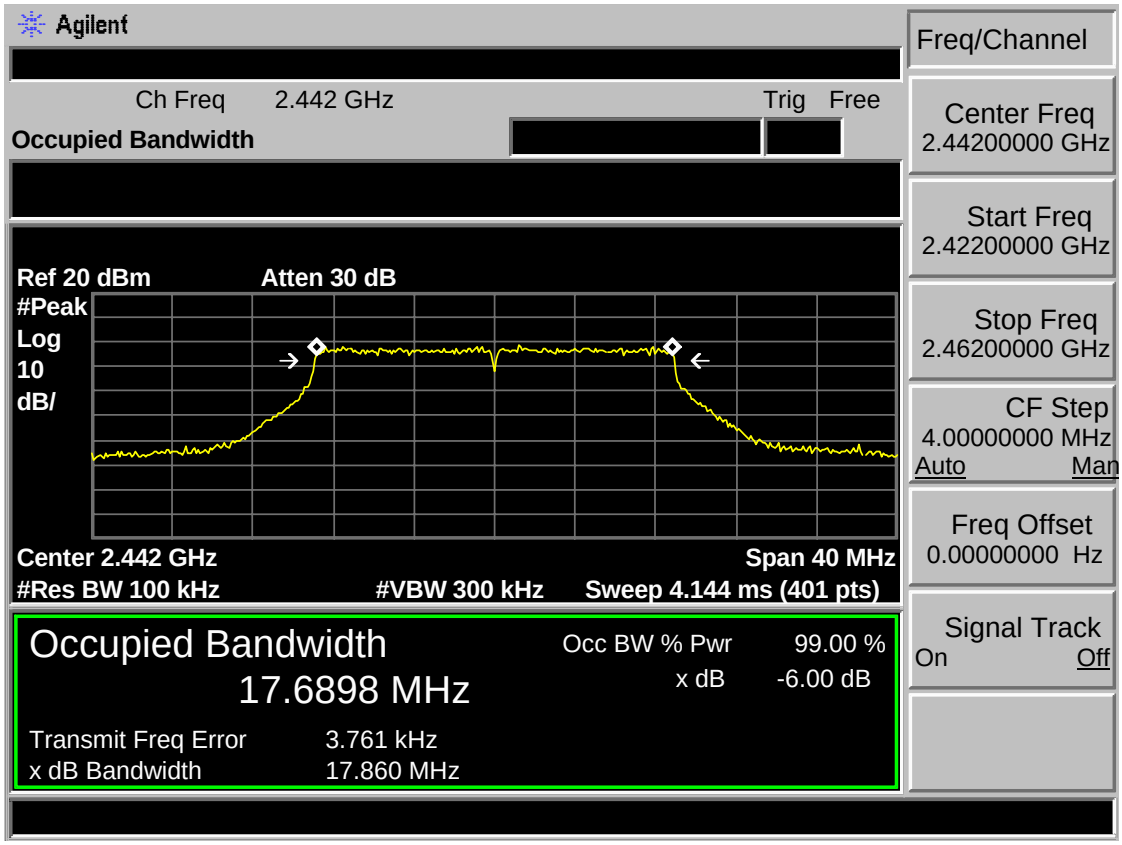
Test Mode: IEEE 802.11g 2472MHz



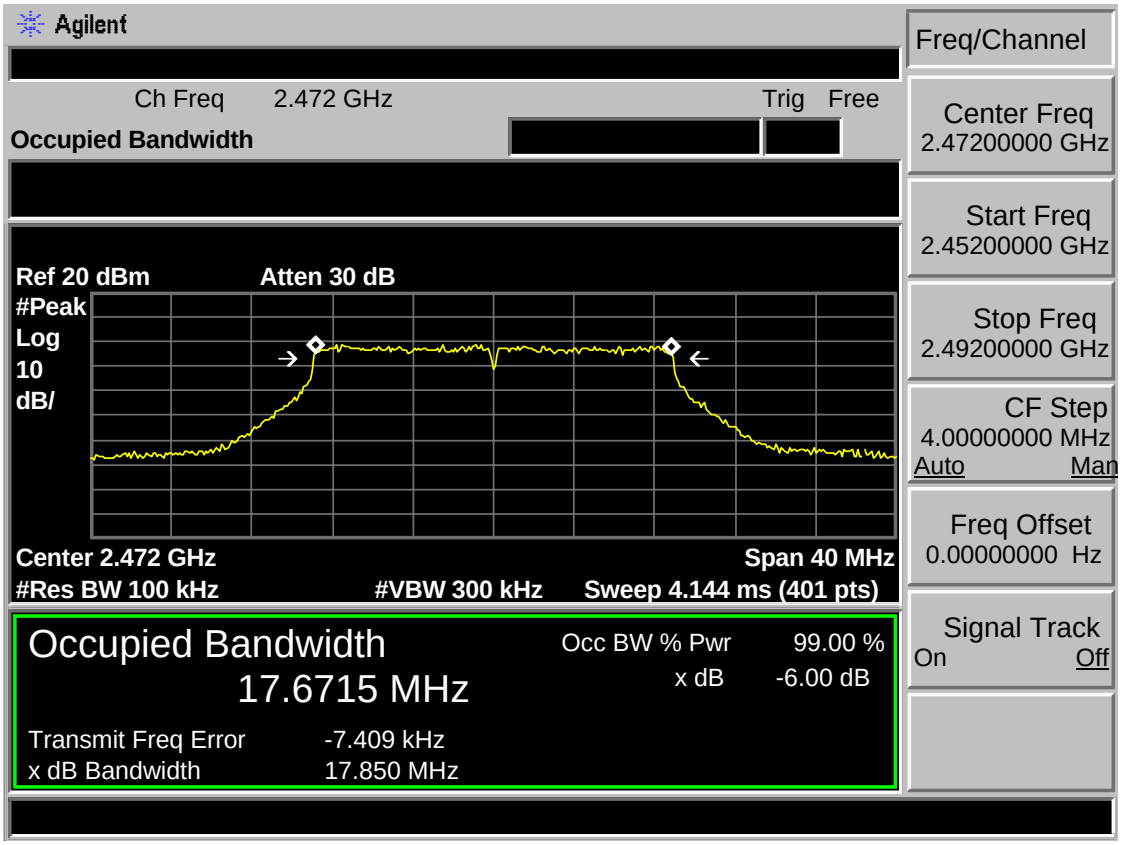
Test Mode: IEEE 802.11n HT20 2412MHz



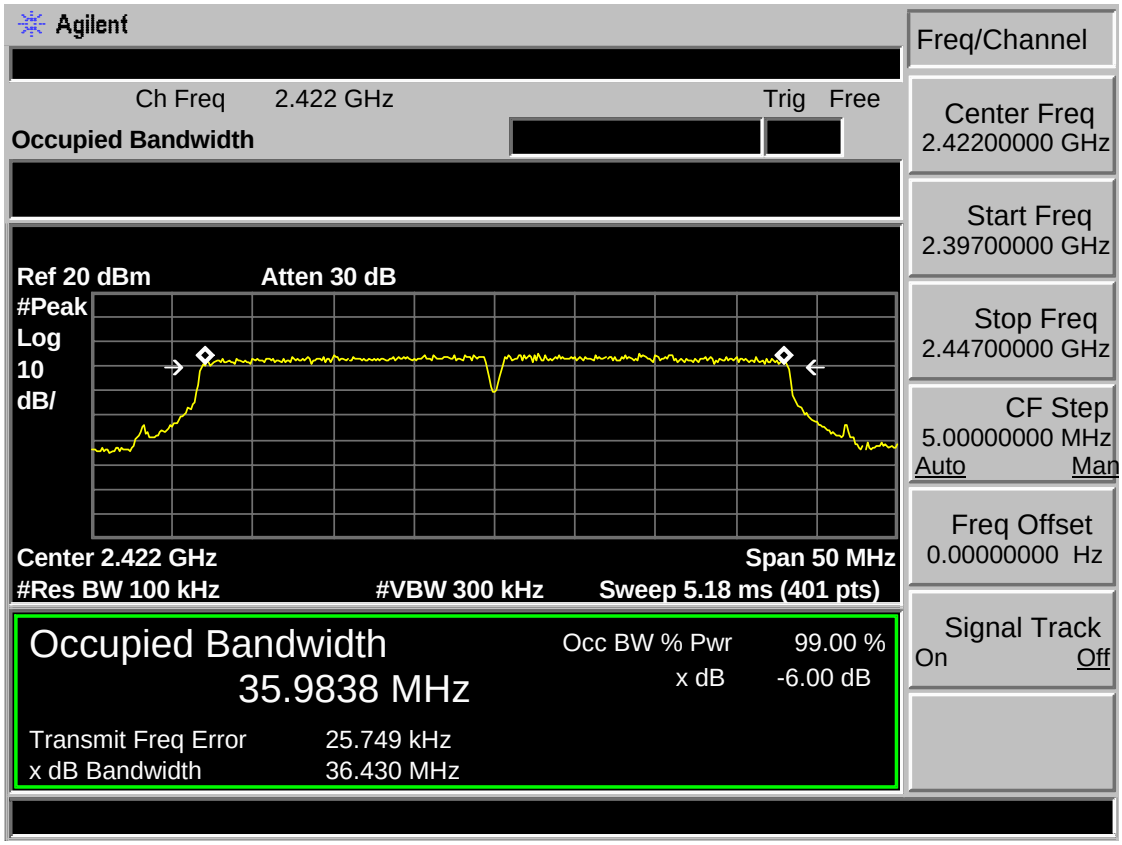
Test Mode: IEEE 802.11n HT20 2442MHz



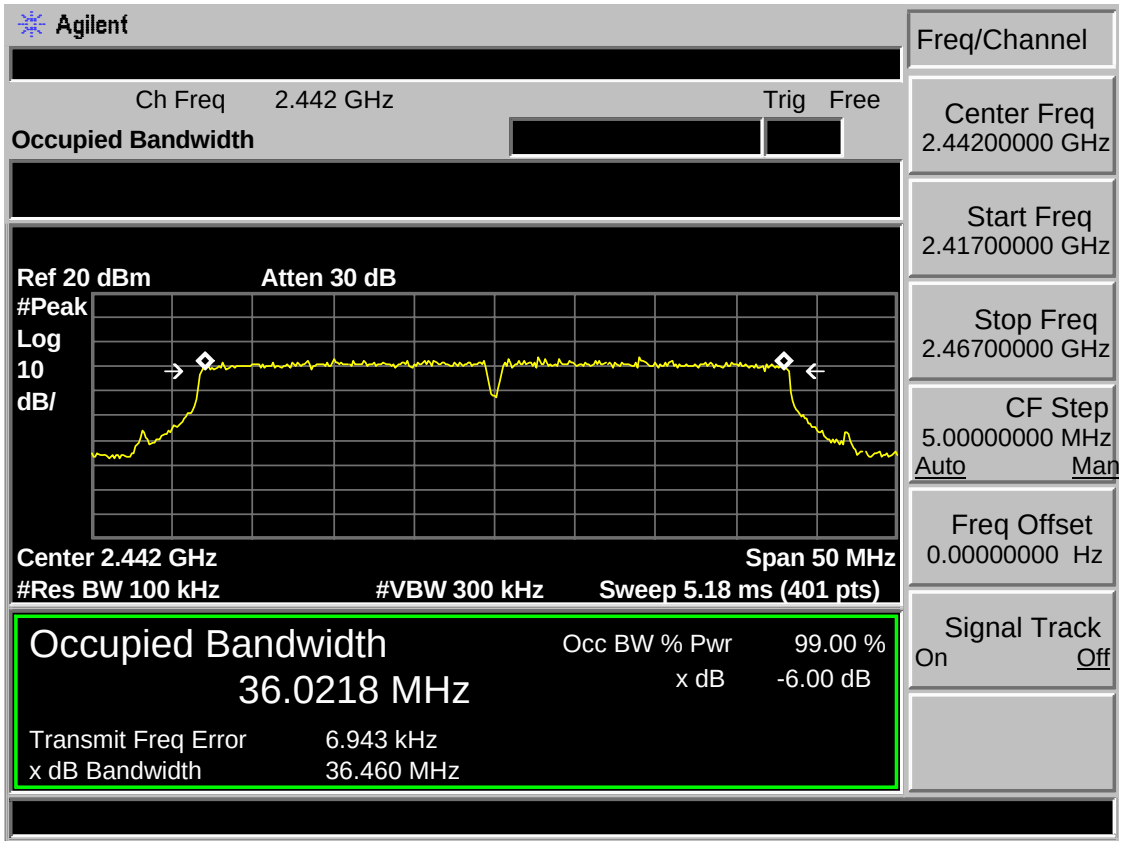
Test Mode: IEEE 802.11n HT20 2472MHz



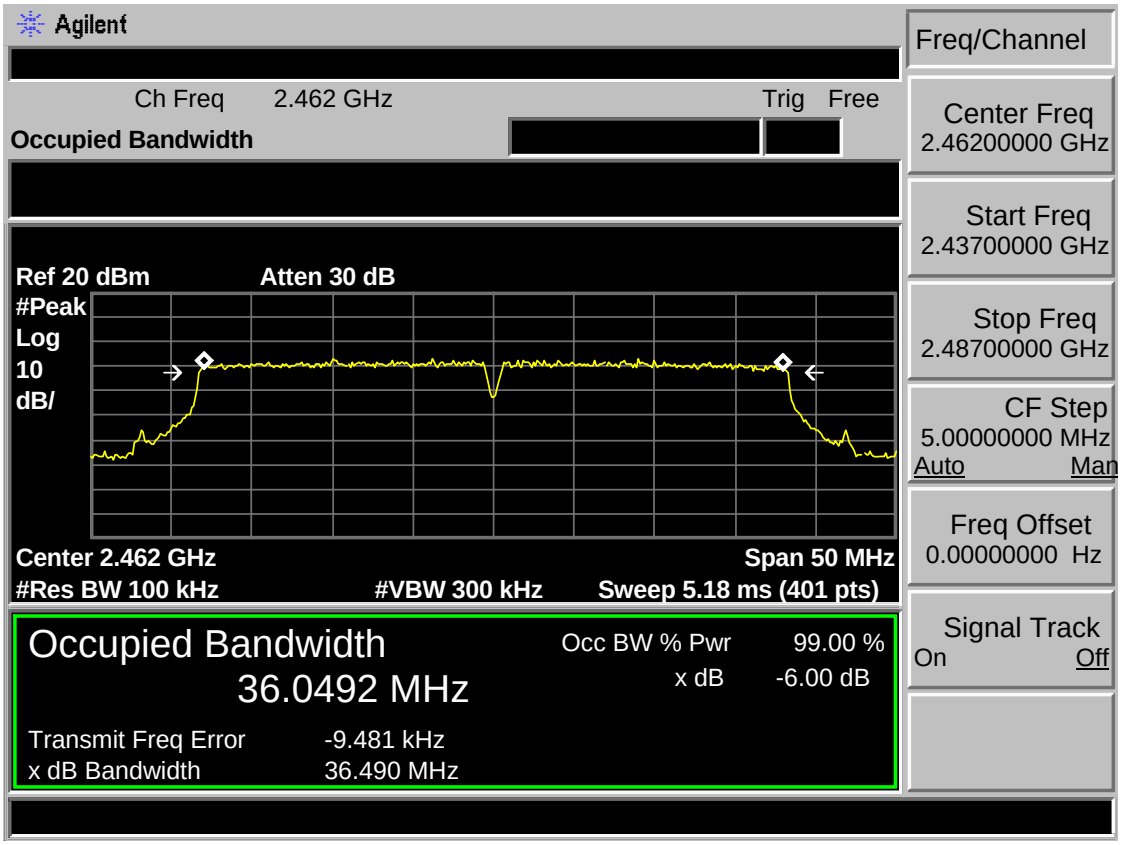
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2442MHz

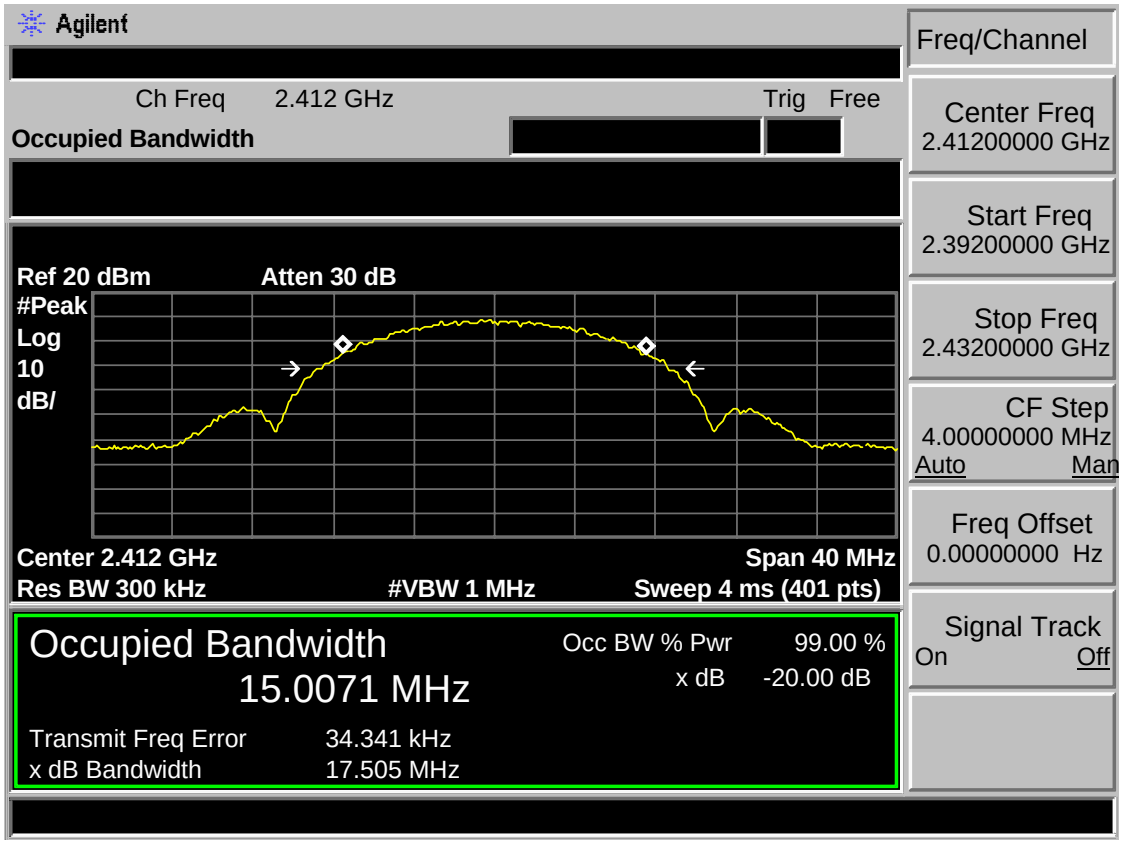


Test Mode: IEEE 802.11n HT40 2462MHz

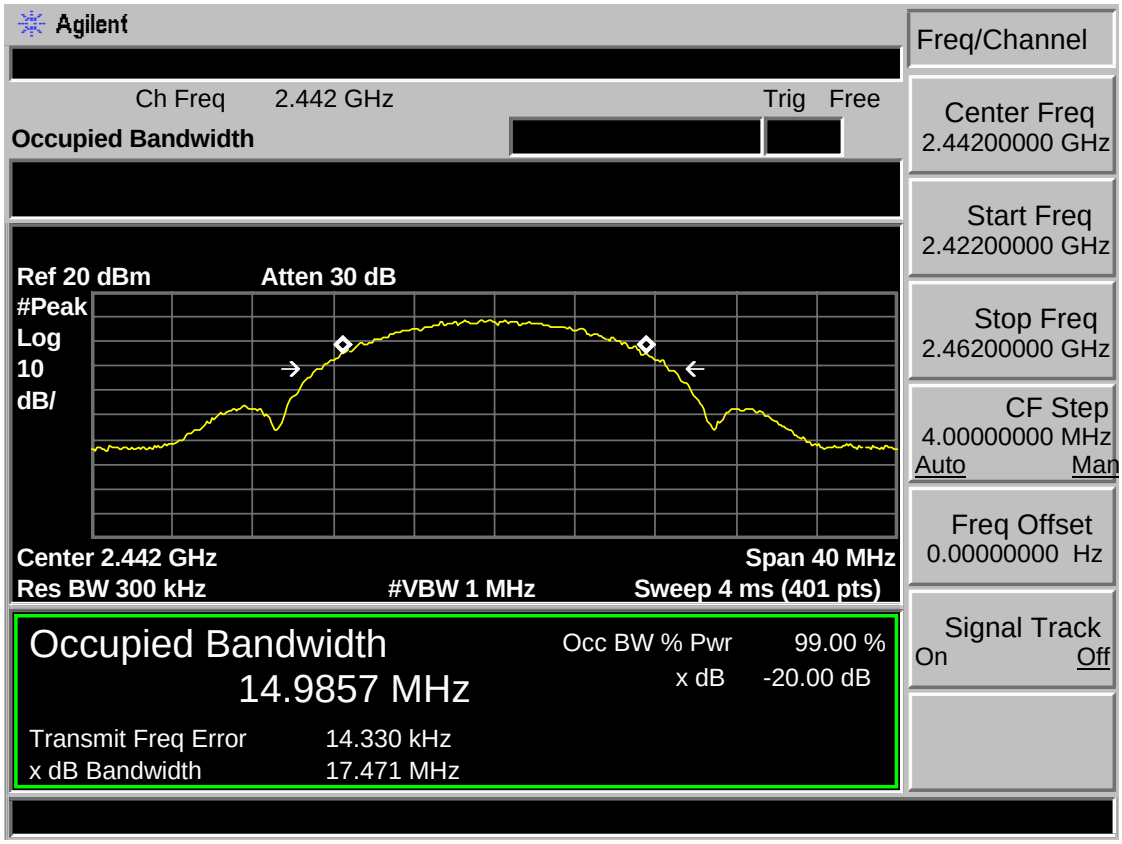


6.5 20dB Test Data

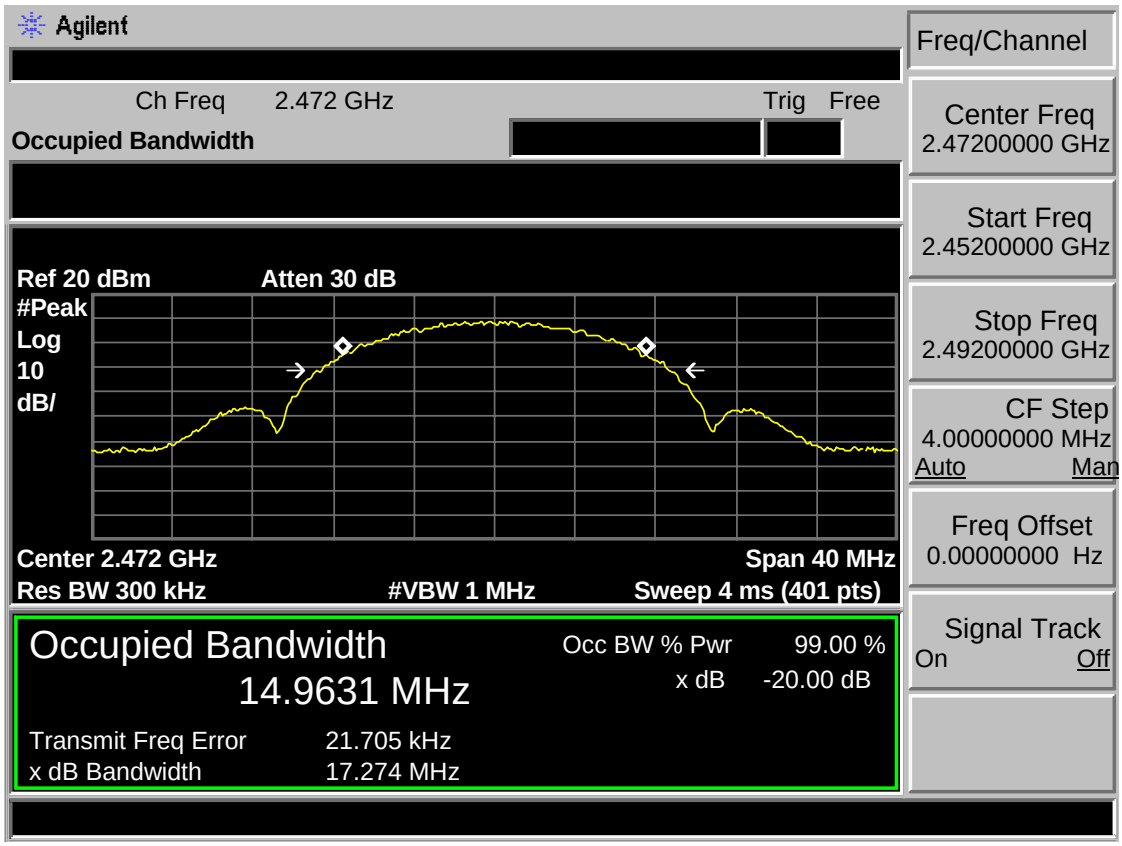
Test Mode: IEEE 802.11b 2412MHz



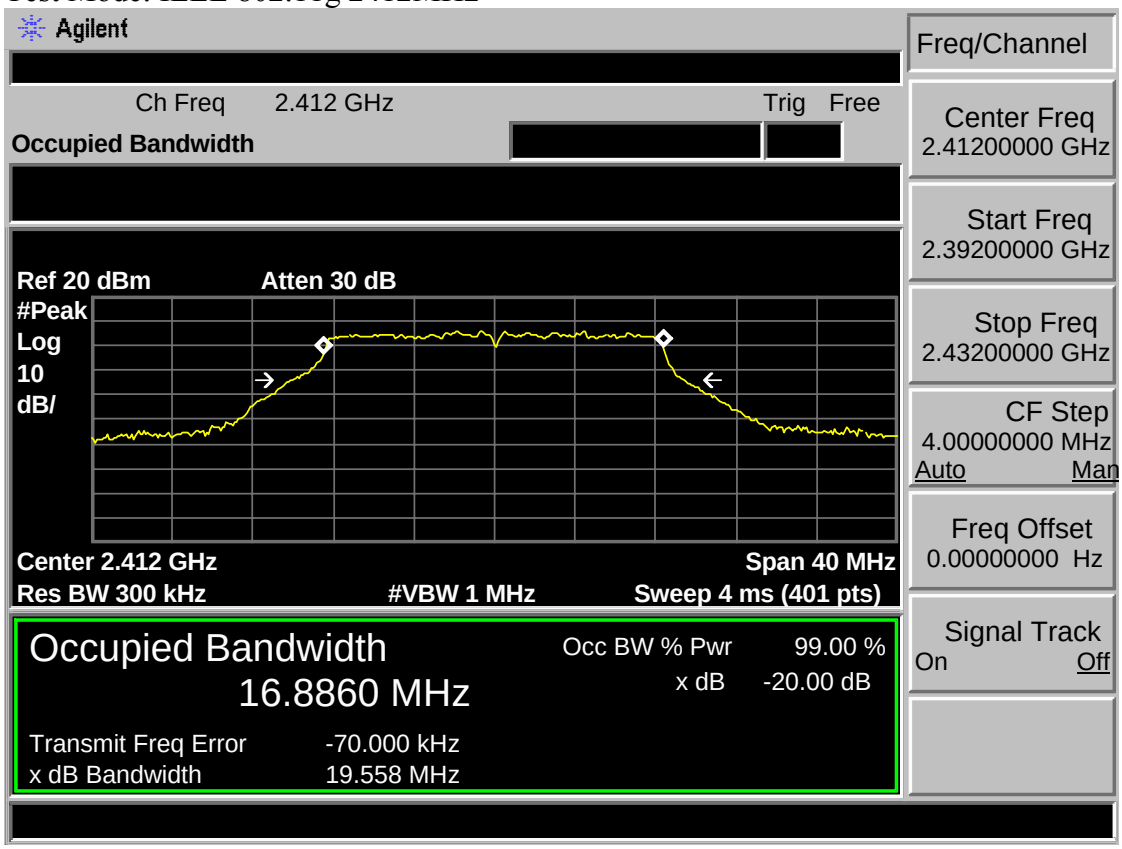
Test Mode: IEEE 802.11b 2442MHz



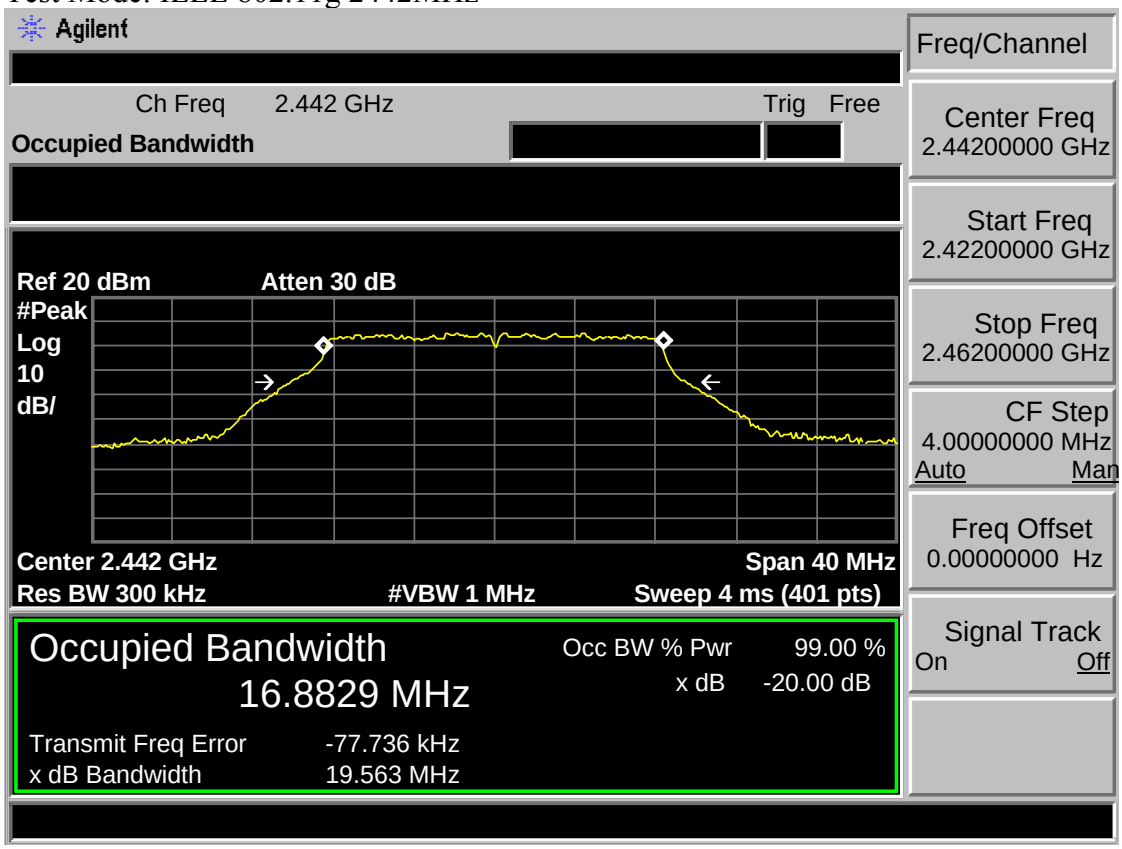
Test Mode: IEEE 802.11b 2472MHz



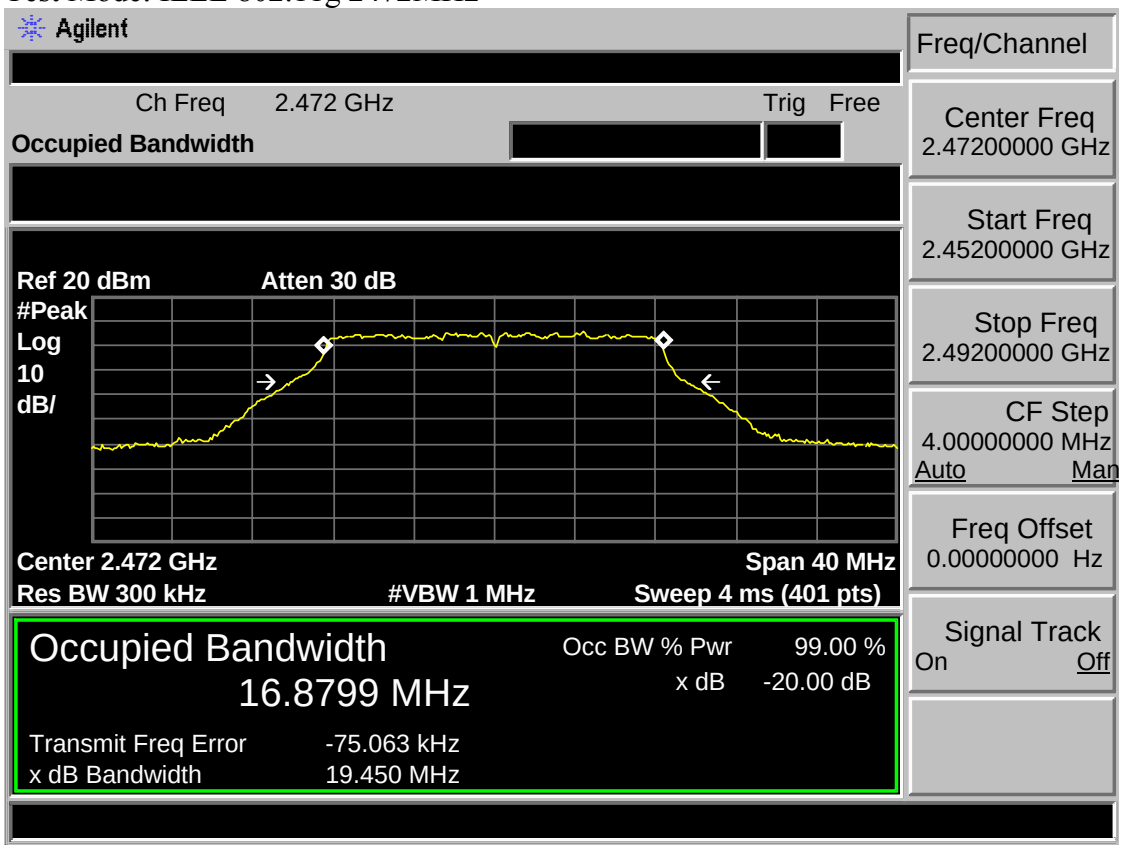
Test Mode: IEEE 802.11g 2412MHz



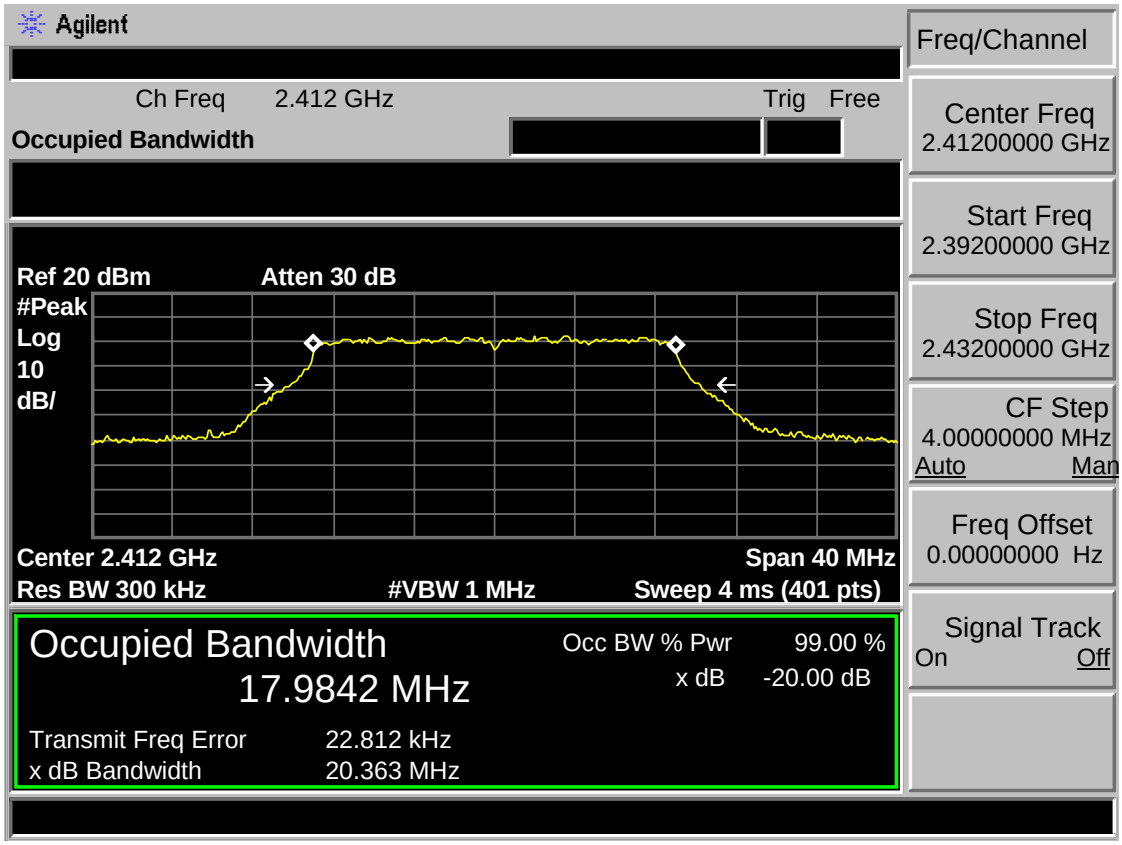
Test Mode: IEEE 802.11g 2442MHz



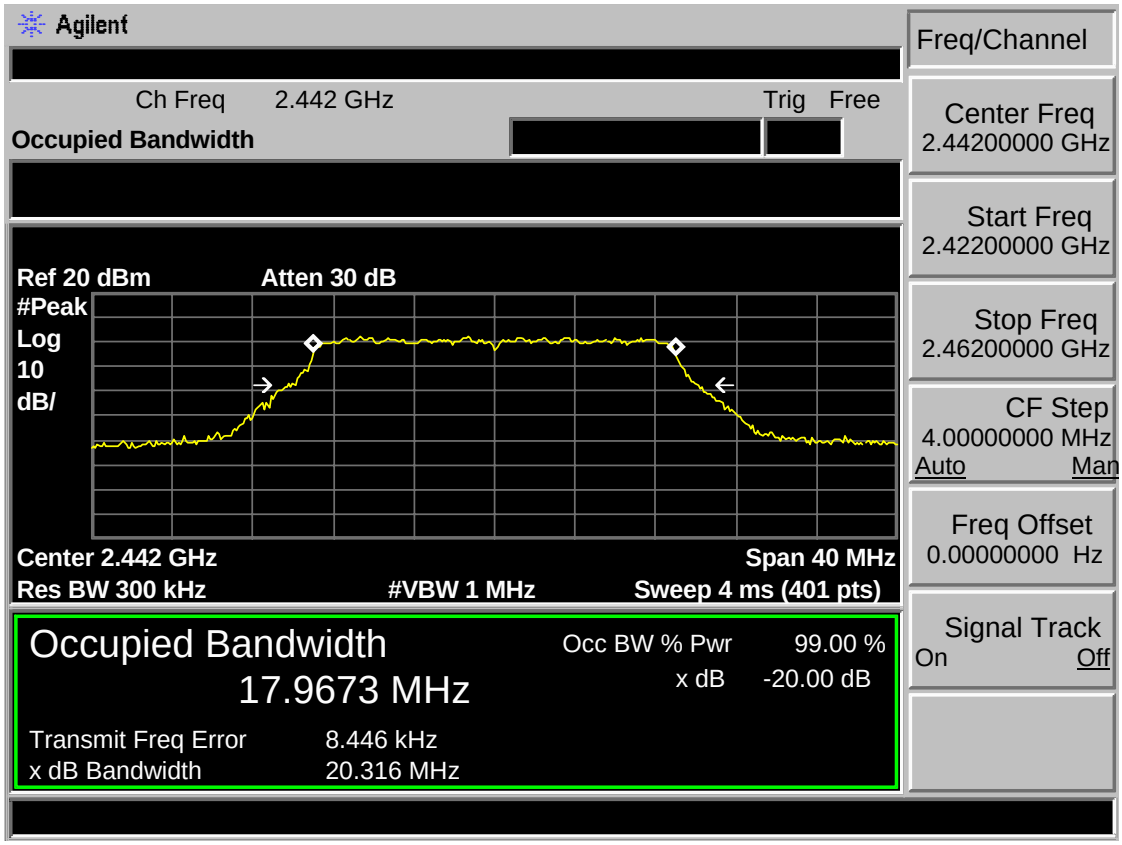
Test Mode: IEEE 802.11g 2472MHz



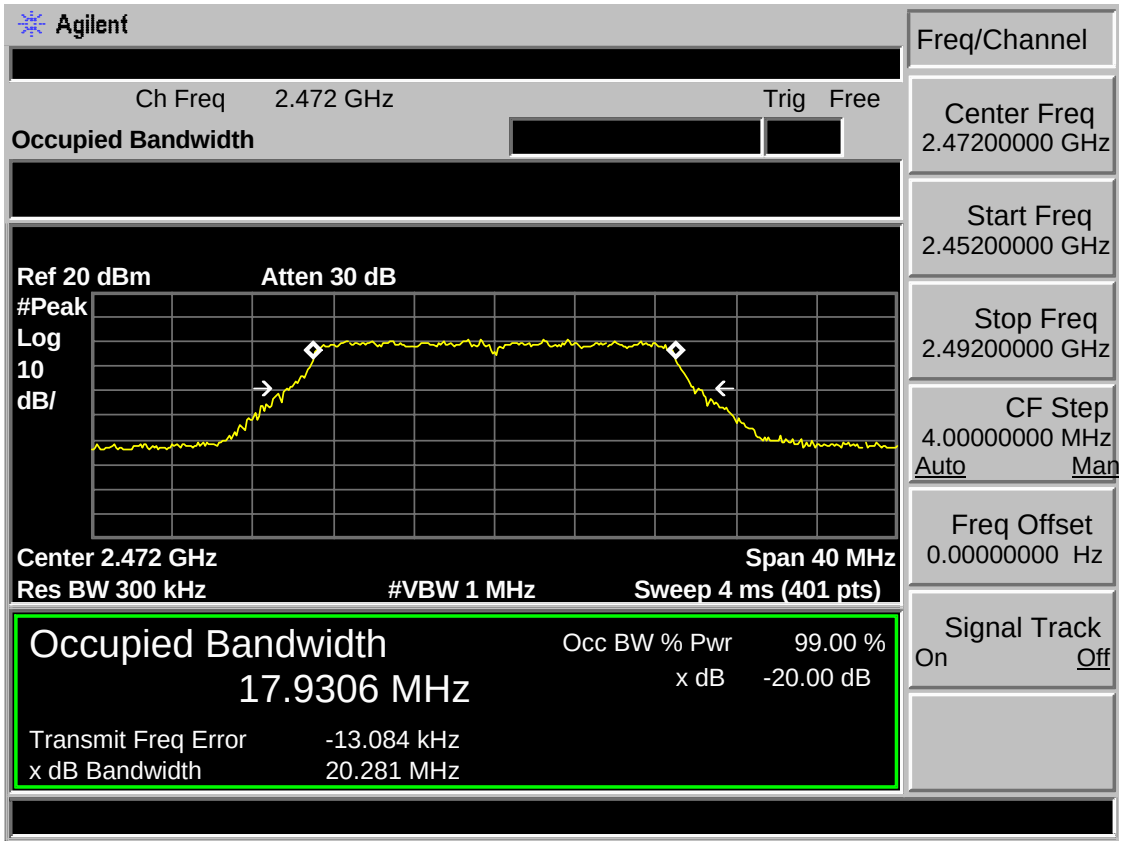
Test Mode: IEEE 802.11n HT20 2412MHz



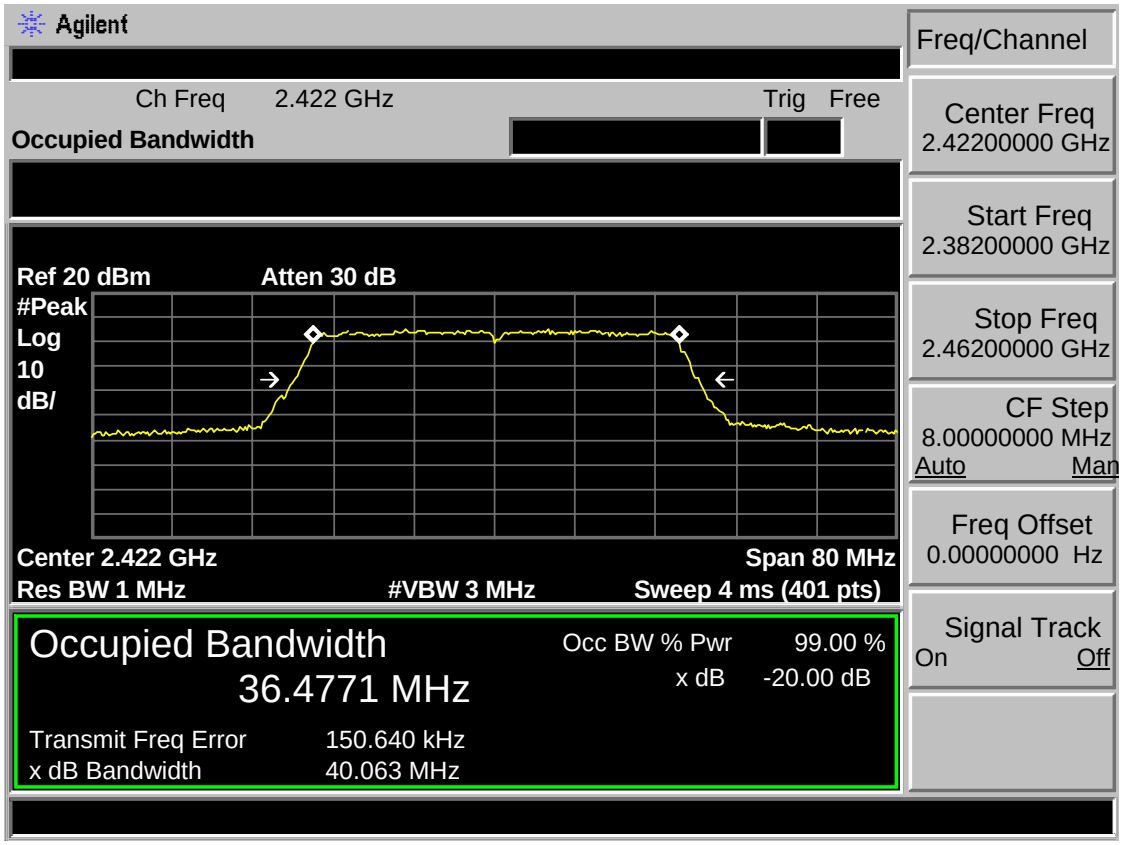
Test Mode: IEEE 802.11n HT20 2442MHz



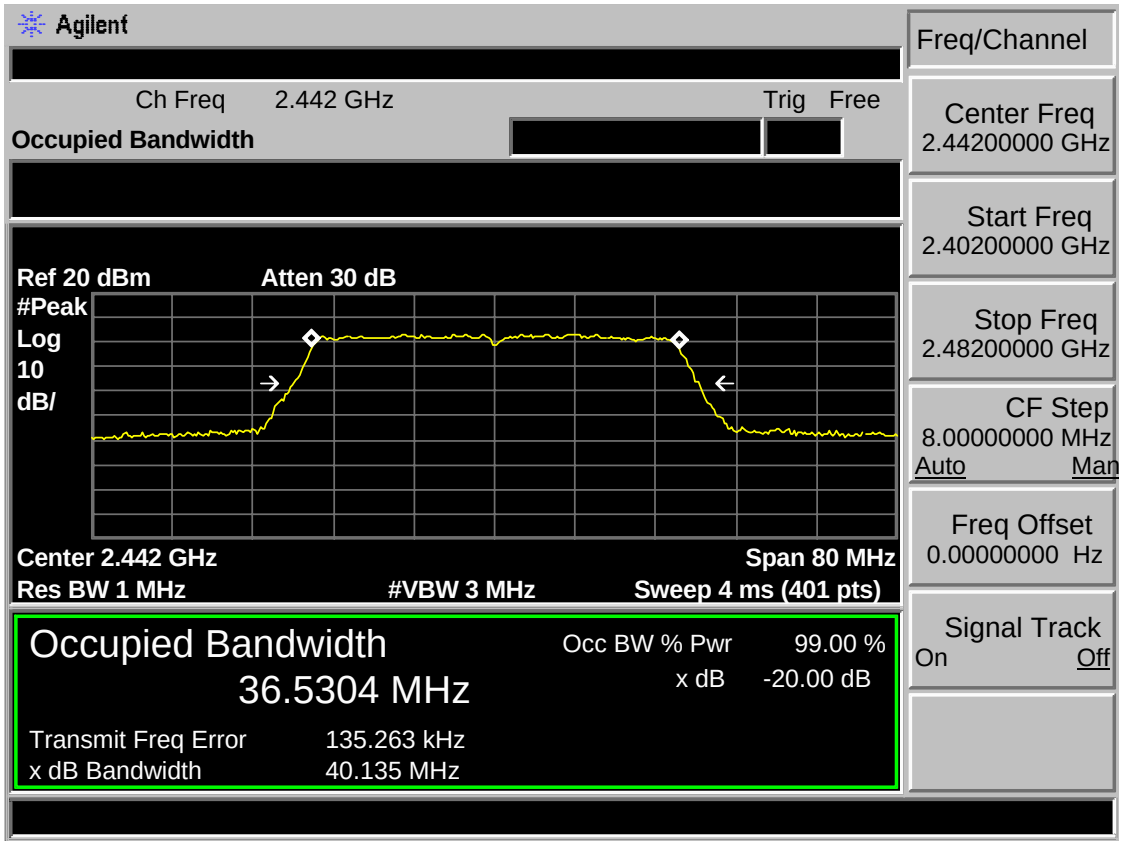
Test Mode: IEEE 802.11n HT20 2472MHz



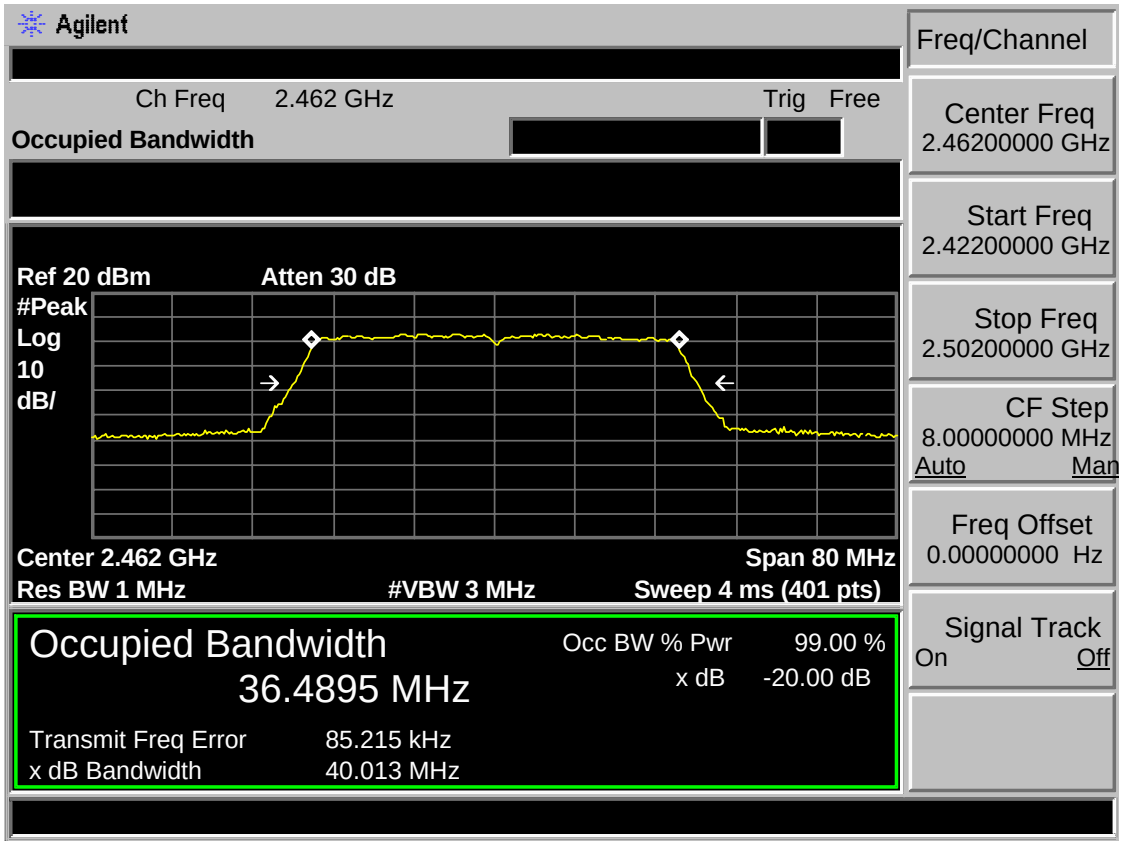
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2442MHz



Test Mode: IEEE 802.11n HT40 2462MHz



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

7.3 Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1)Set span to at least 1.5 times the OBW.
(2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
(3)Set VBW ≥ 3 x RBW.
(4)Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(4)Sweep time = auto.
(5)Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
(6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
(7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
(8)Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

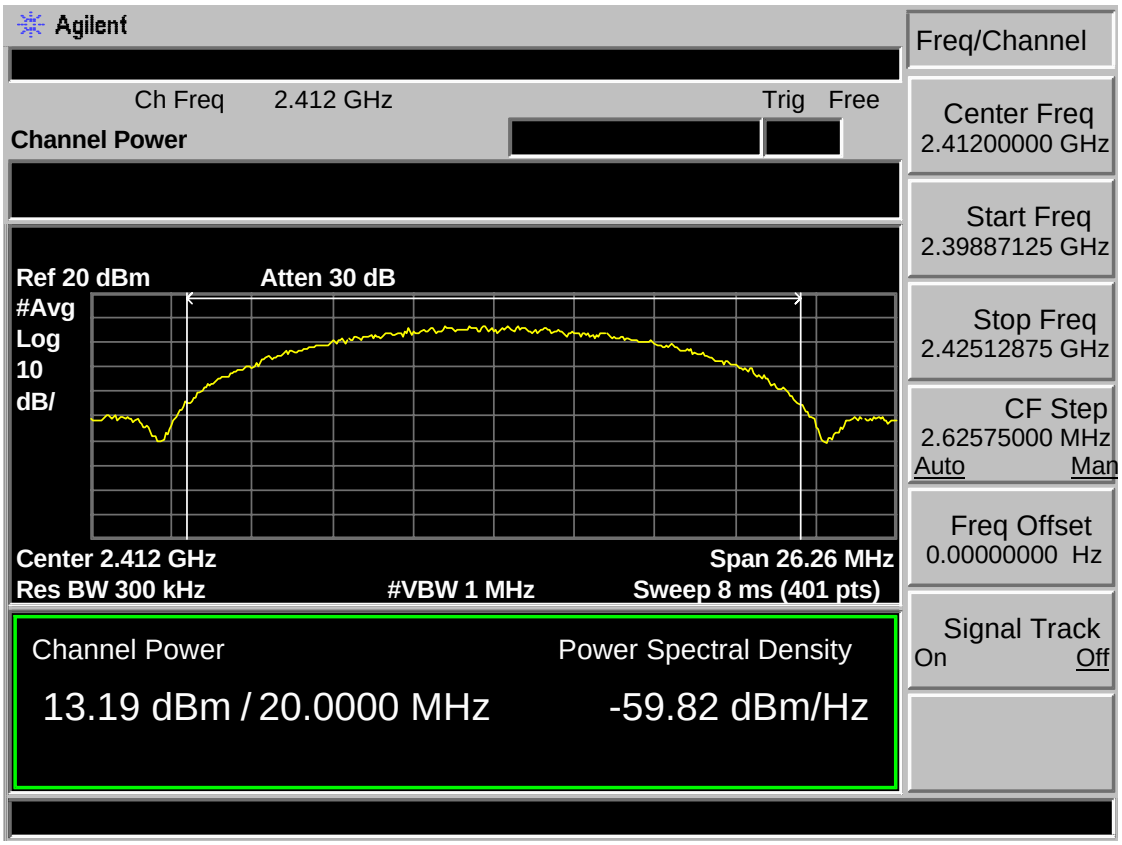
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4 Test Result

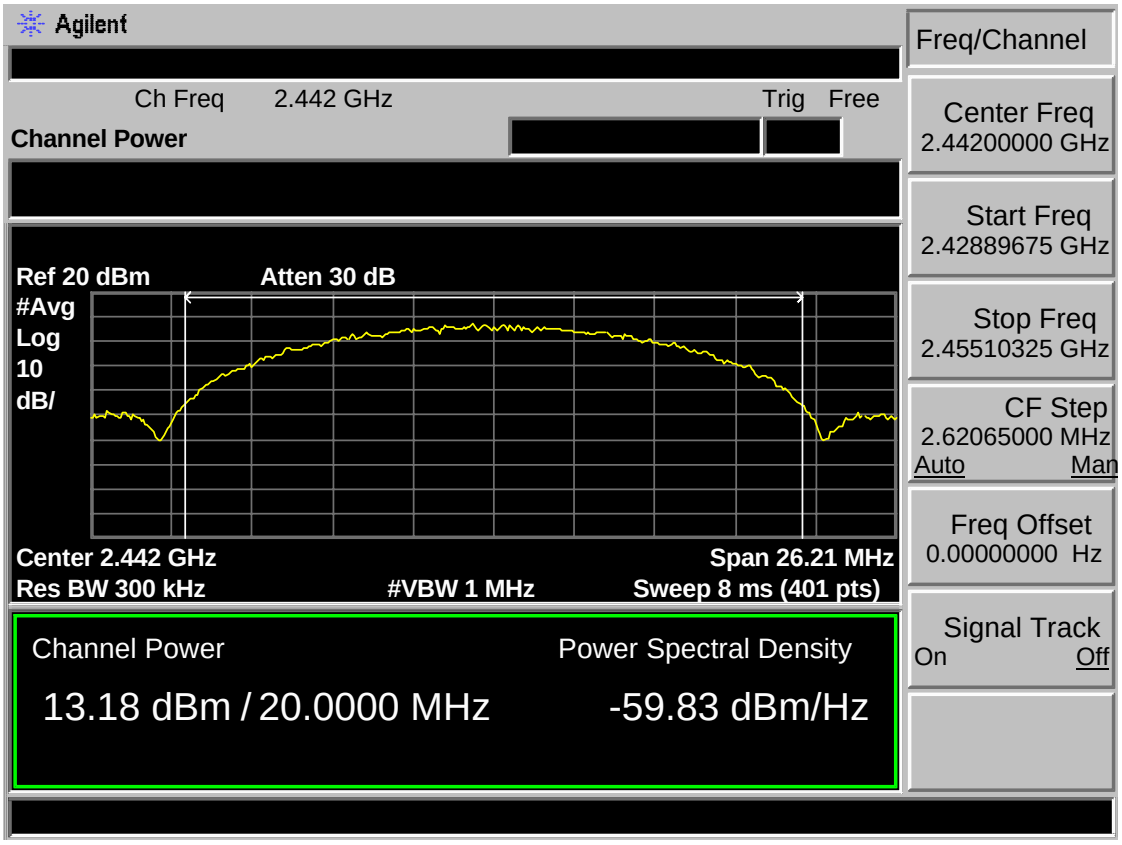
EUT: LED TV			
M/N: ELST5016S			
Test date: 2016-03-14		Tested by: Tony.Tang	Test site: RF Site
Pass			
Test Mode	CH	Conducted Power（dBm）	Limit (dBm)
IEEE 802.11 b	CH1	13.19	30
	CH7	13.18	30
	CH13	13.08	30
IEEE 802.11 g	CH1	11.39	30
	CH7	11.24	30
	CH13	11.00	30
IEEE 802.11 n HT 20	CH1	9.17	30
	CH7	9.42	30
	CH13	8.66	30
IEEE 802.11 n HT 40	CH1	6.99	30
	CH5	7.73	30
	CH9	6.57	30
Conclusion：PASS			

7.5 Test Data

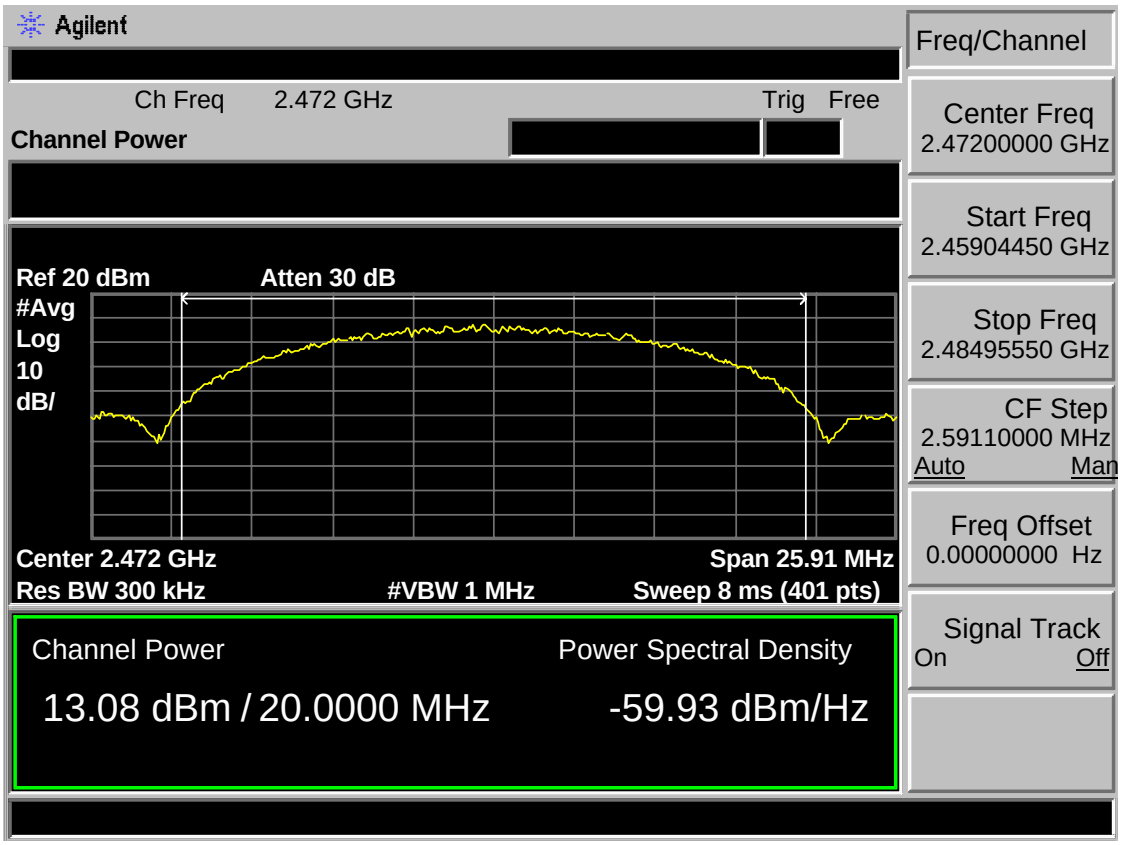
Test Mode: IEEE 802.11 b 2412MHz



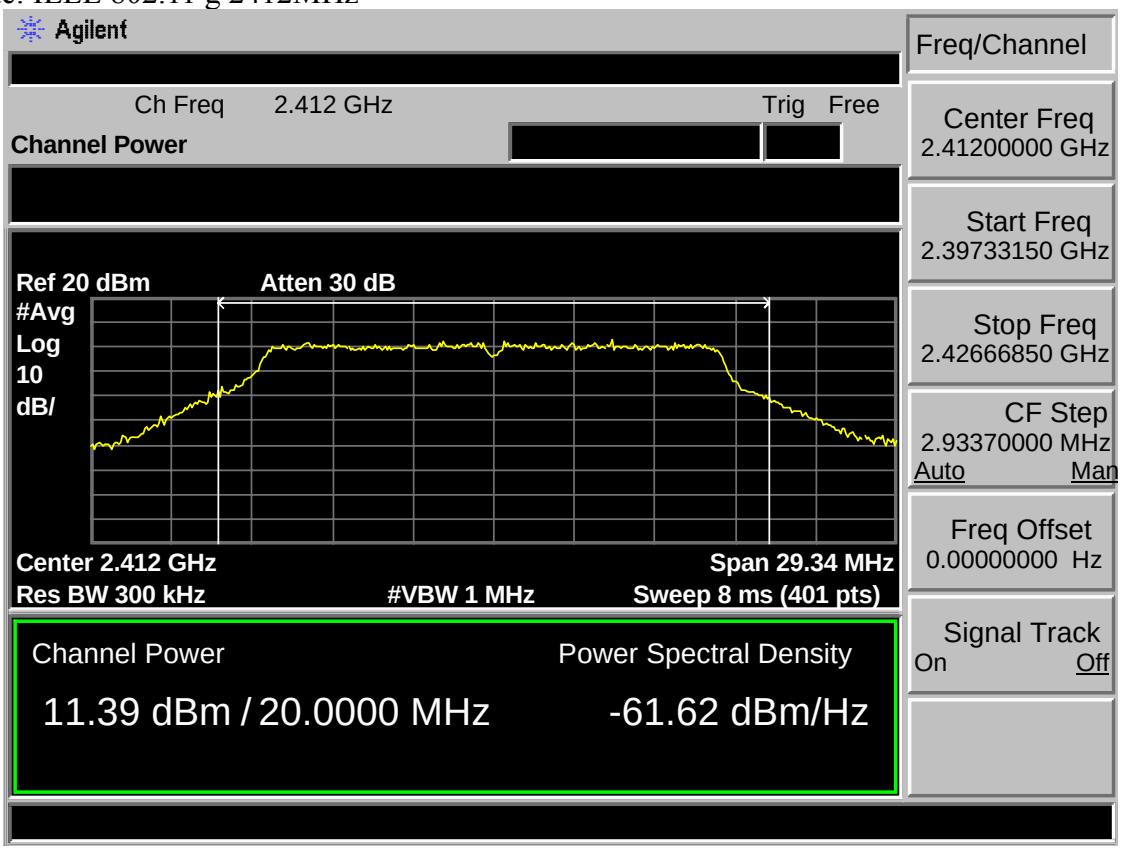
Test Mode: IEEE 802.11 b 2442MHz



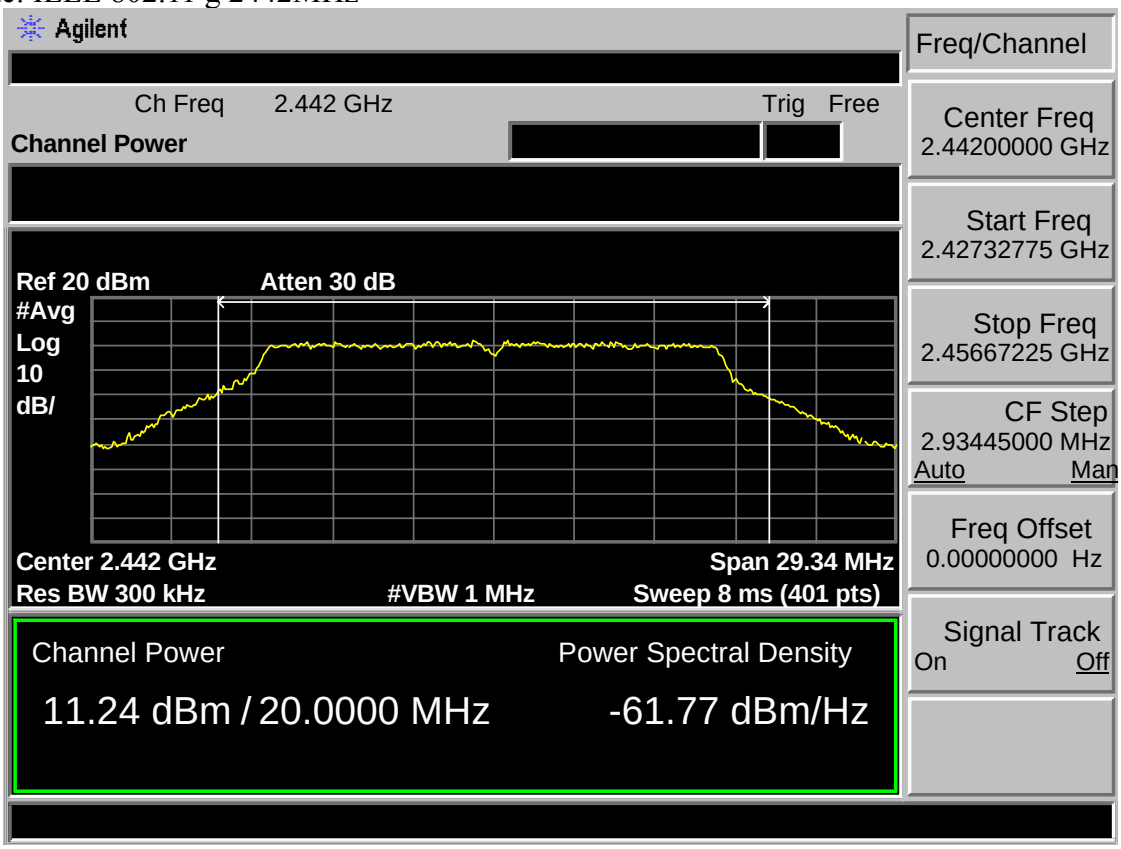
Test Mode: IEEE 802.11 b 2472MHz



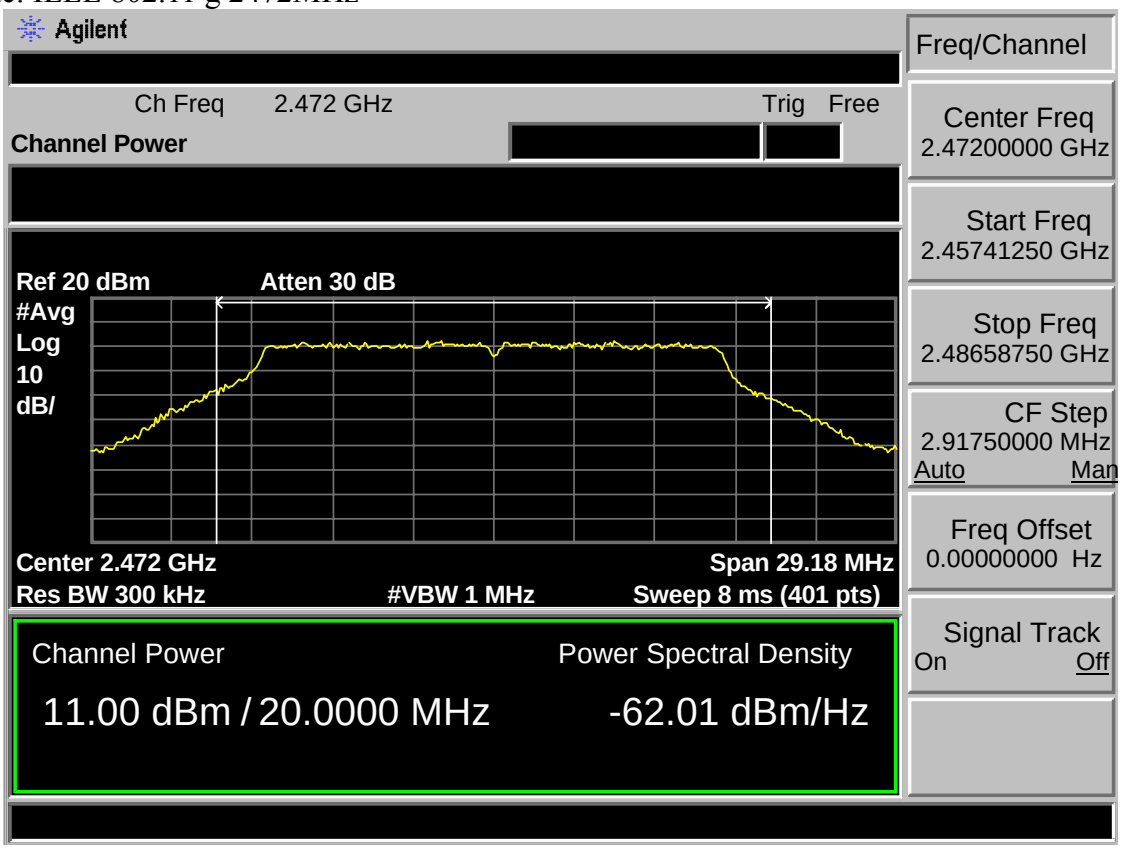
Test Mode: IEEE 802.11 g 2412MHz



Test Mode: IEEE 802.11 g 2442MHz

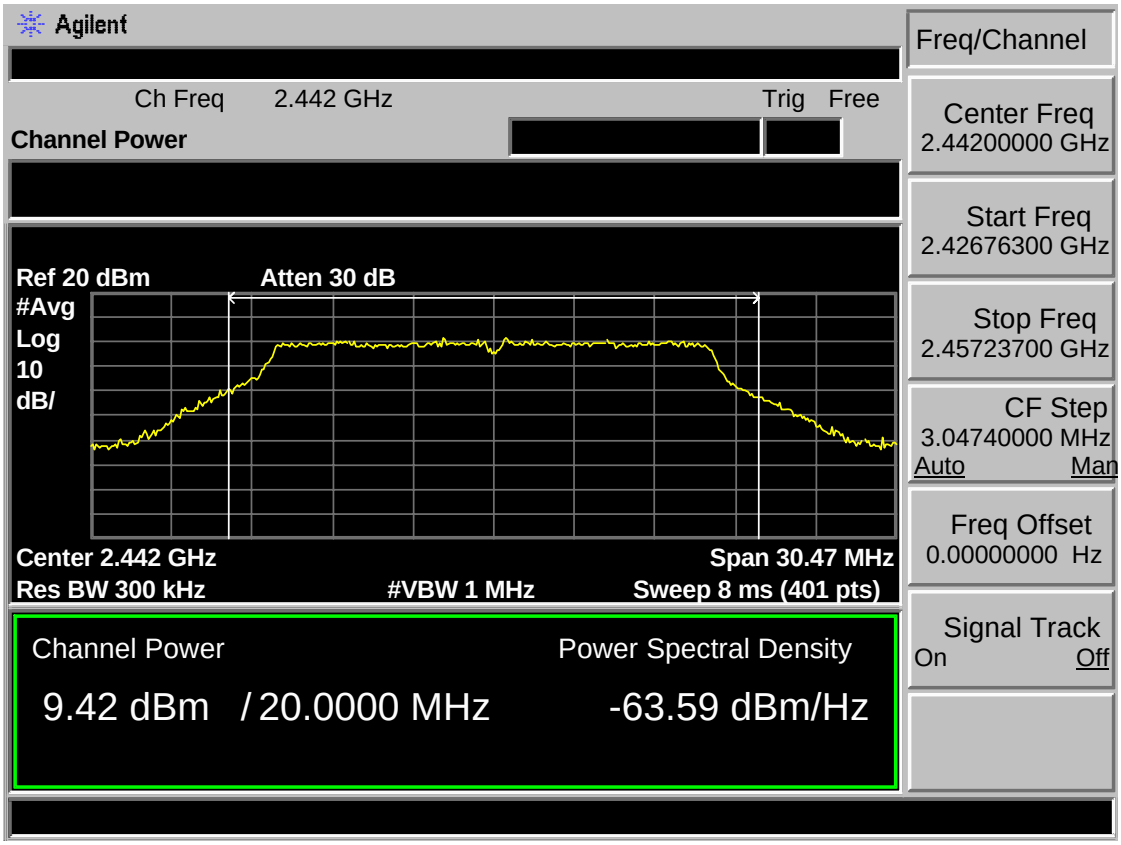


Test Mode: IEEE 802.11 g 2472MHz

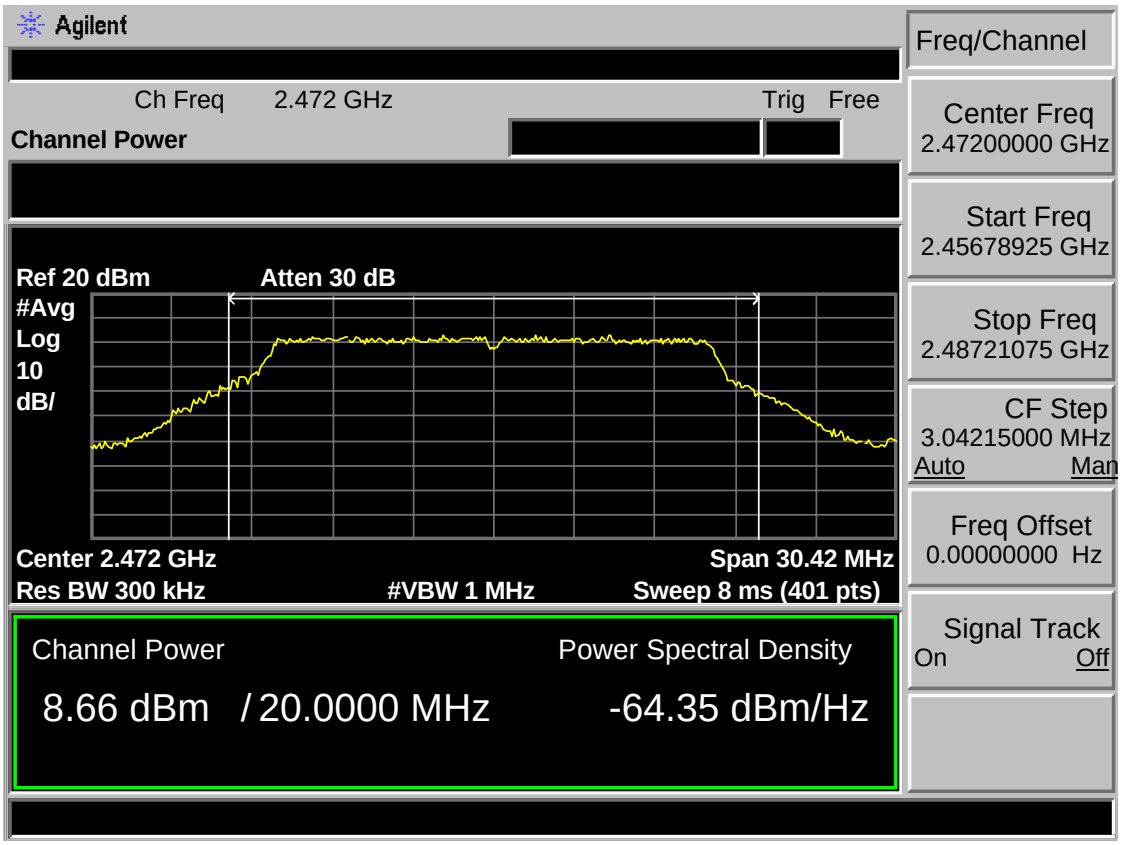


Test Mode: IEEE 802.11n HT20 2412MHz

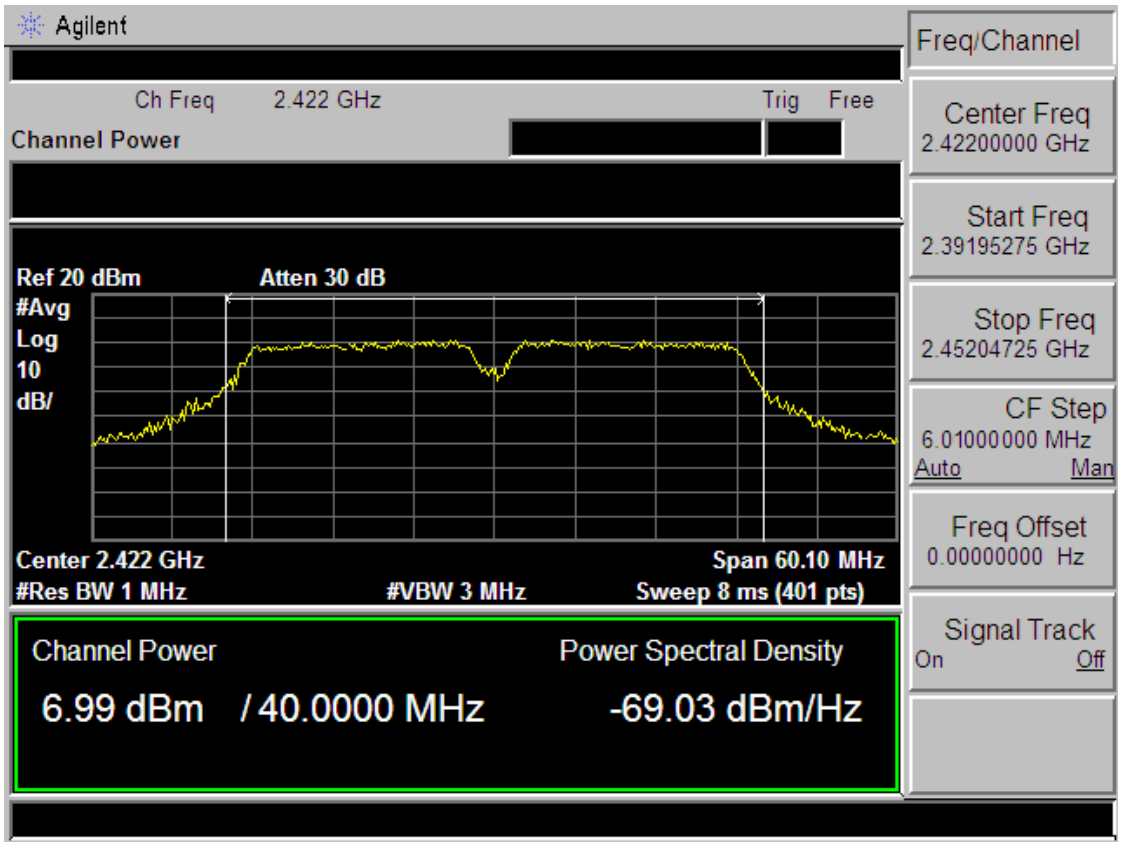
Test Mode: IEEE 802.11 n HT20 2442MHz



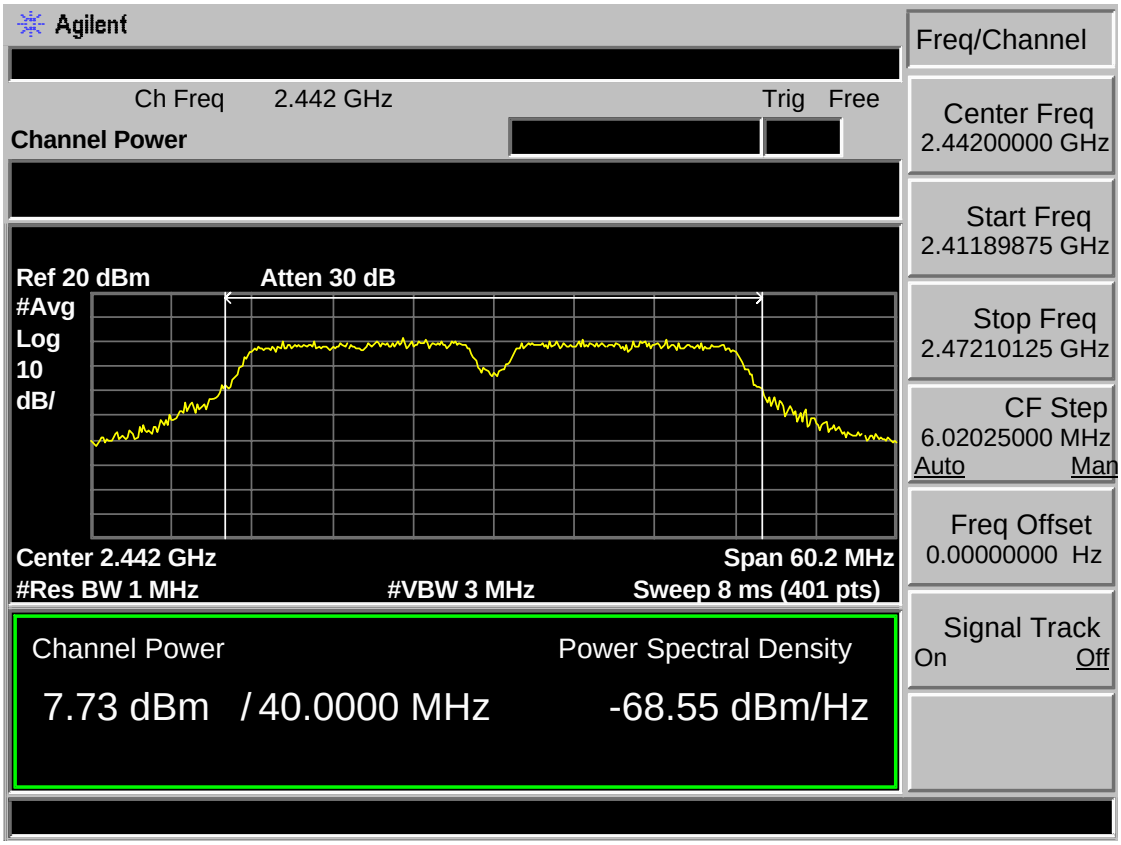
Test Mode: IEEE 802.11 n HT20 2472MHz



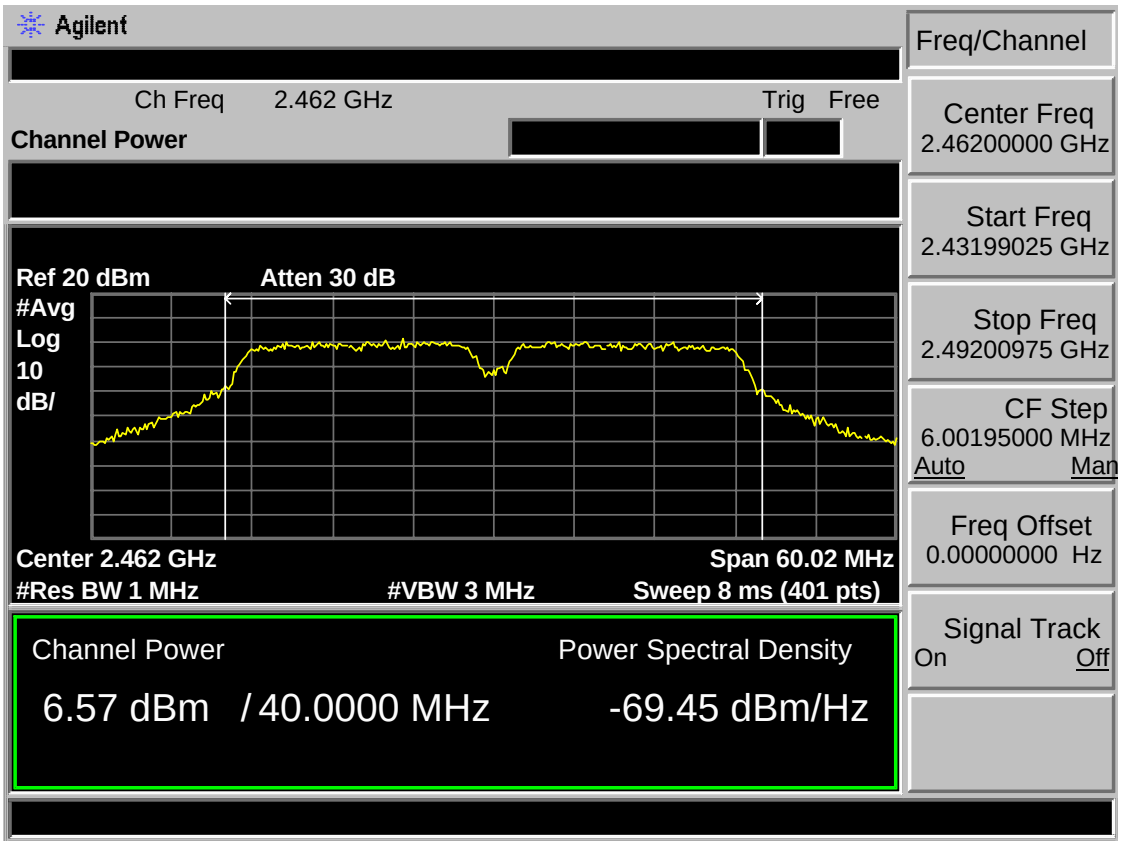
Test Mode: IEEE 802.11 n HT40 2422MHz



Test Mode: IEEE 802.11 n HT40 2442MHz



Test Mode: IEEE 802.11 n HT40 2462MHz



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, Connected the EUT's antenna port to spectrum analyzer device.

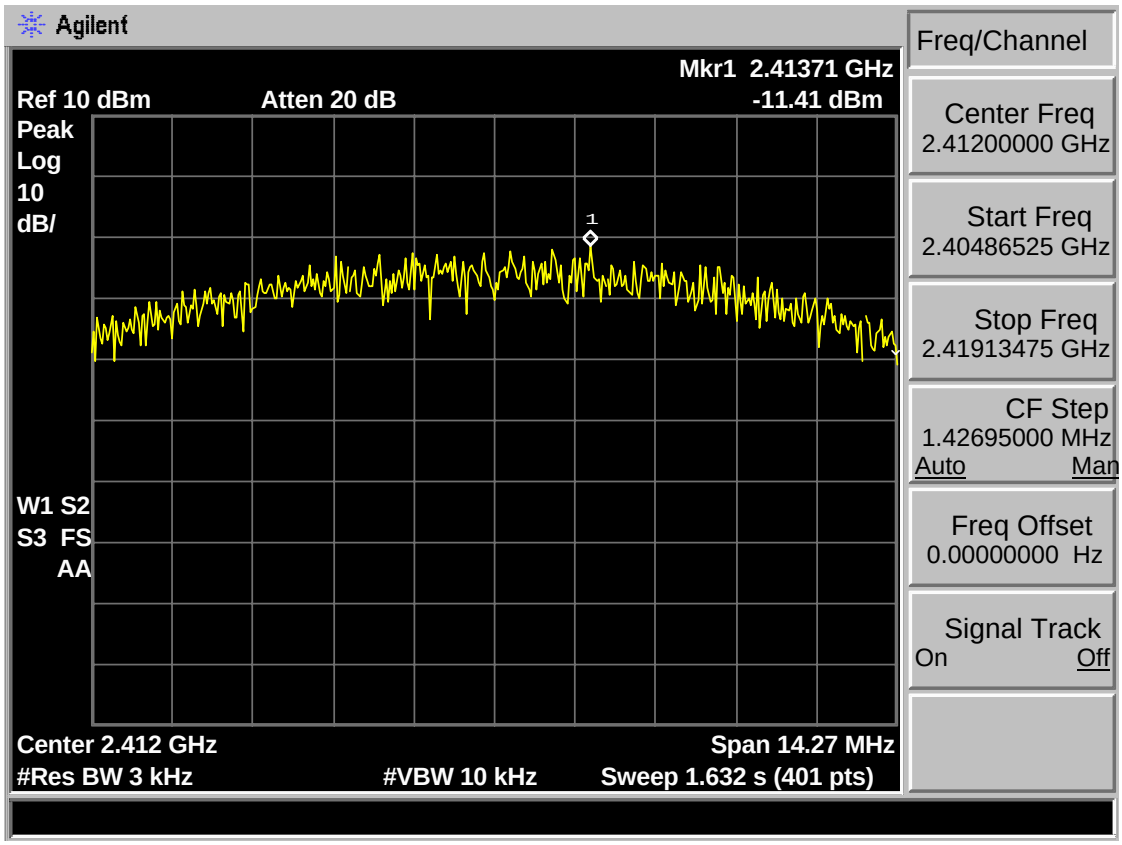
2, Follow the test procedure as described in KDB 558074
(1). Set analyzer center frequency to DTS channel center frequency.
(2). Set the span to 1.5 times the DTS bandwidth.
(3). Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
(4). Set the VBW ≥ 3 RBW.
(5). Detector = peak.
(6). Sweep time = auto couple.
(7). 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

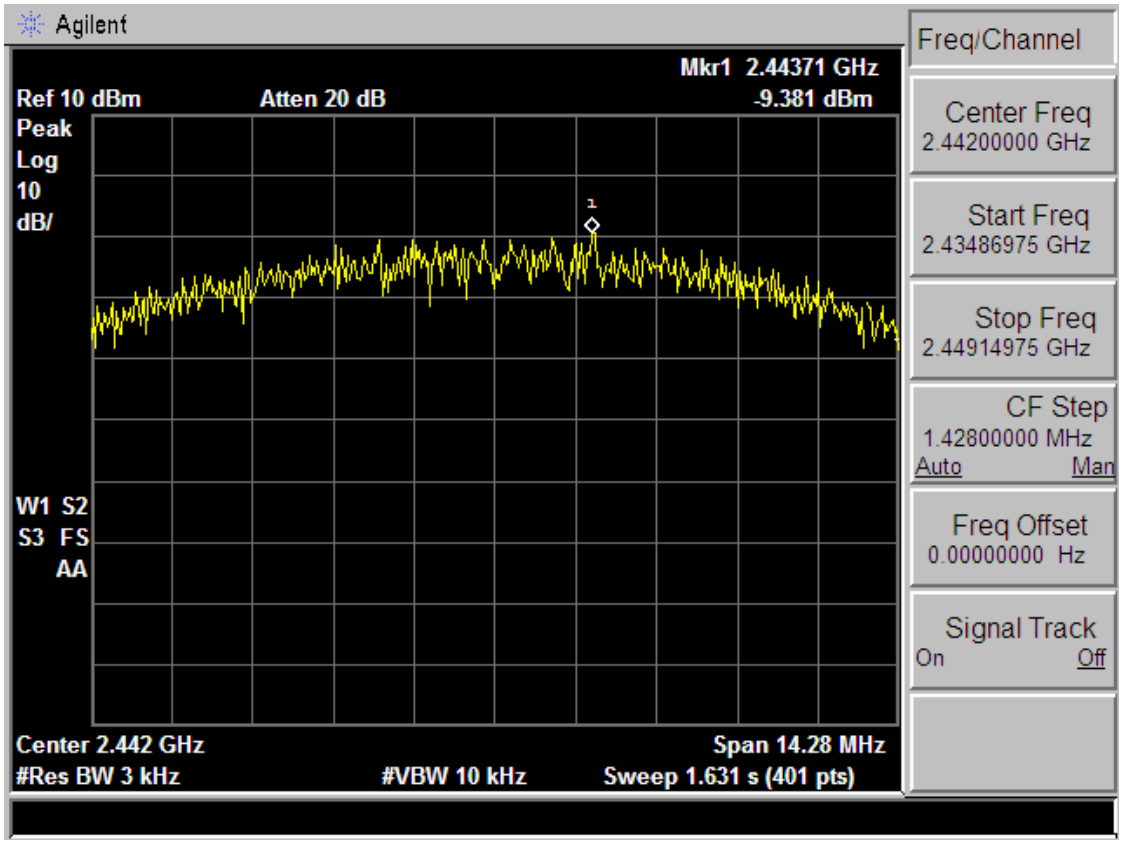
EUT: LED TV			
M/N: ELST5016S			
Test date: 2016-03-14		Tested by: Tony Tang	Test site: RF site
Pass			
Test Mode	CH	Power density (dBm/3kHz）	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-11.410	8
	CH7	-9.381	8
	CH13	-10.160	8
IEEE 802.11 g	CH1	-17.160	8
	CH7	-18.170	8
	CH13	-18.430	8
IEEE 802.11 n HT 20	CH1	-16.850	8
	CH7	-16.190	8
	CH13	-16.880	8
IEEE 802.11 n HT 40	CH1	-19.920	8
	CH5	-20.480	8
	CH9	-20.180	8
Conclusion：PASS			

8.4 Test Data

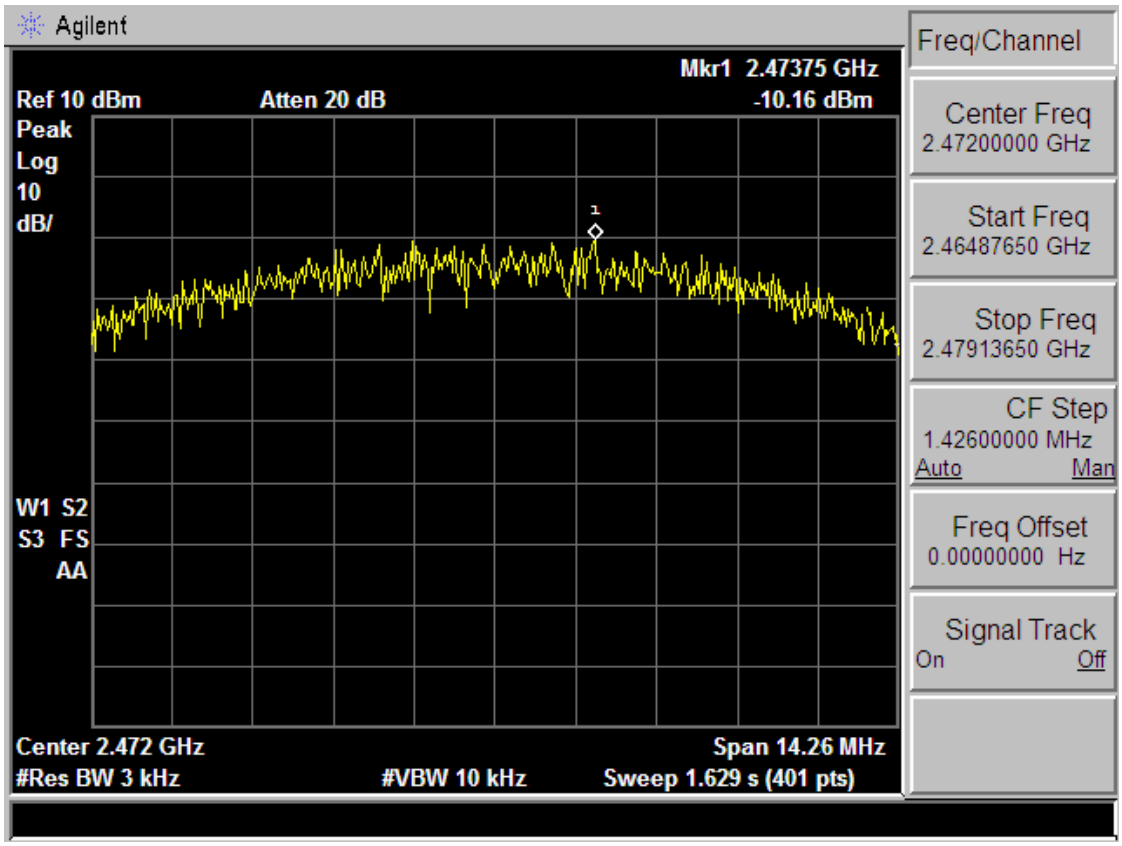
Test Mode: IEEE 802.11b 2412MHz



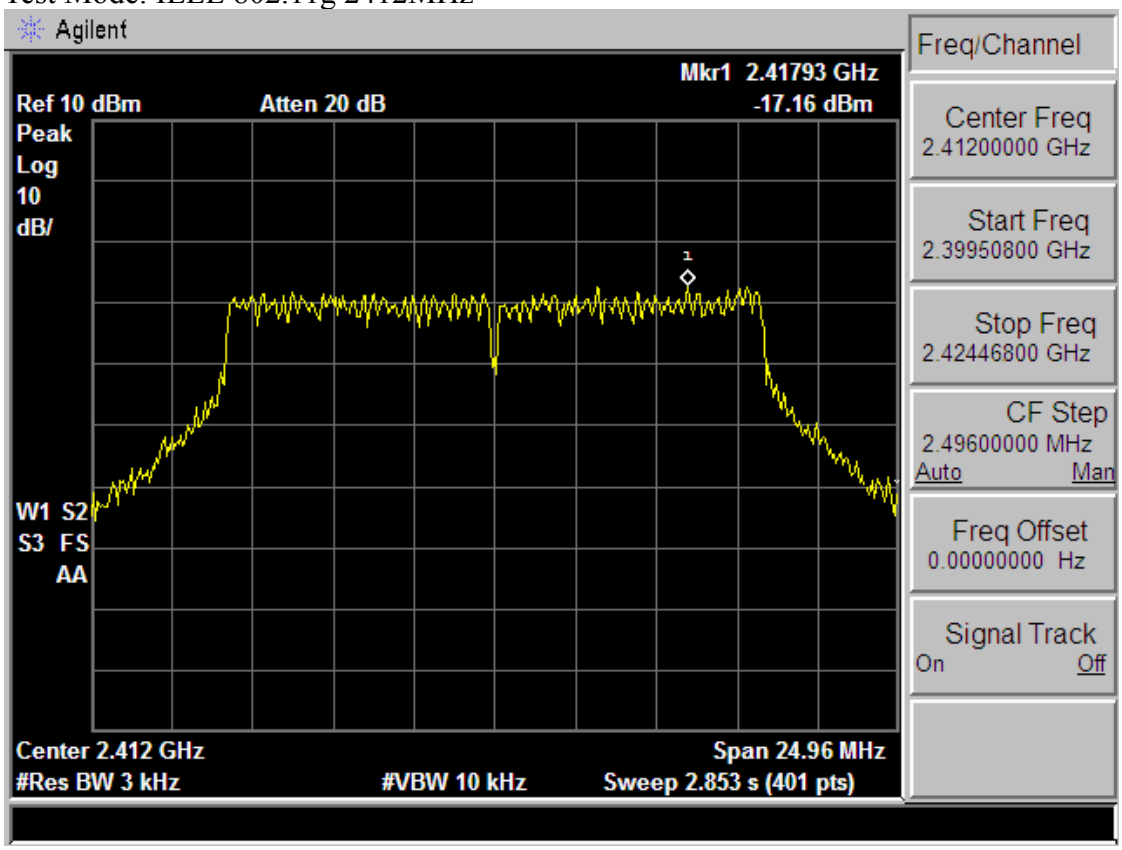
Test Mode: IEEE 802.11b 2442MHz



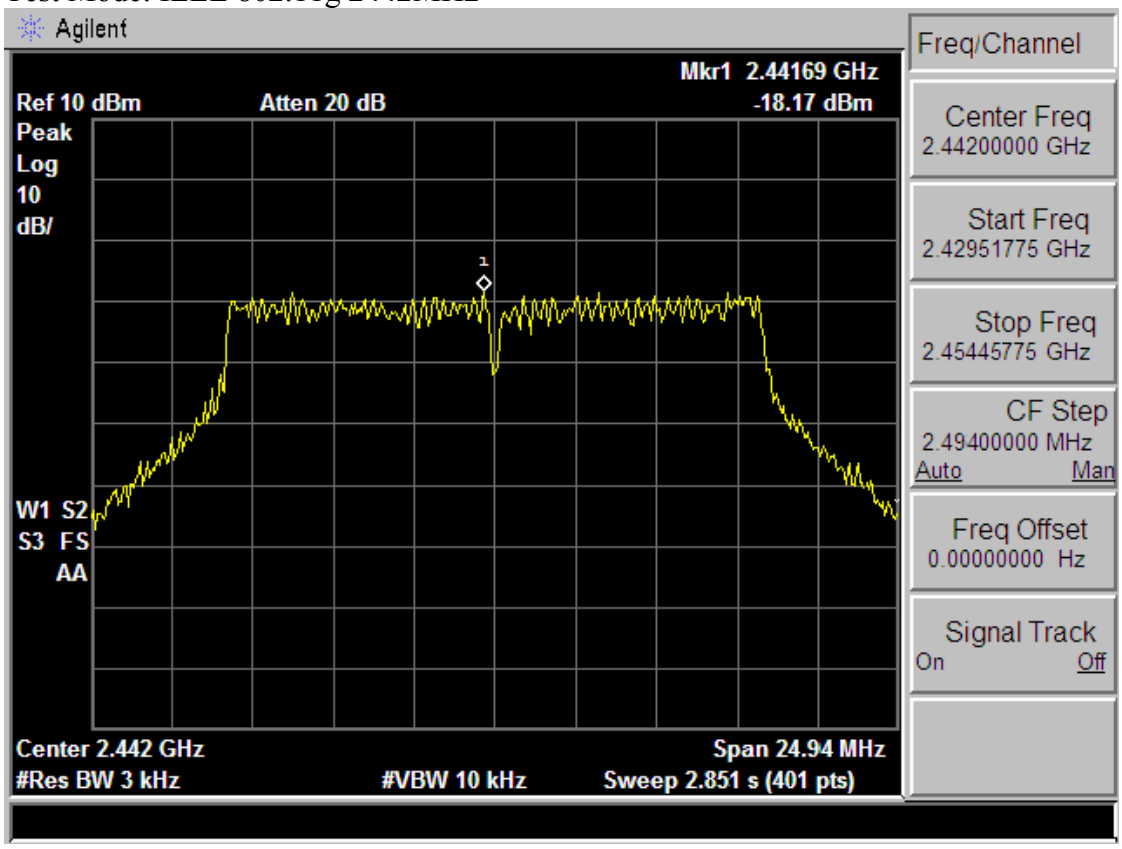
Test Mode: IEEE 802.11b 2472MHz



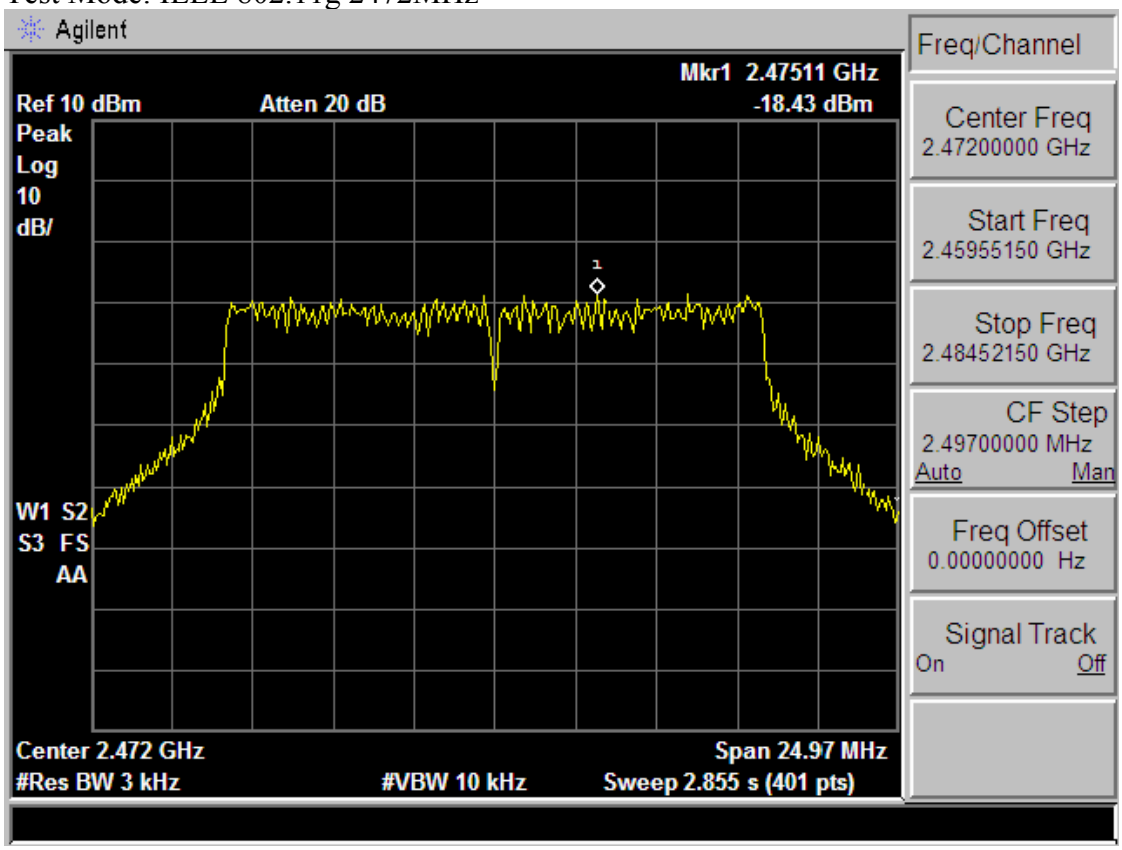
Test Mode: IEEE 802.11g 2412MHz



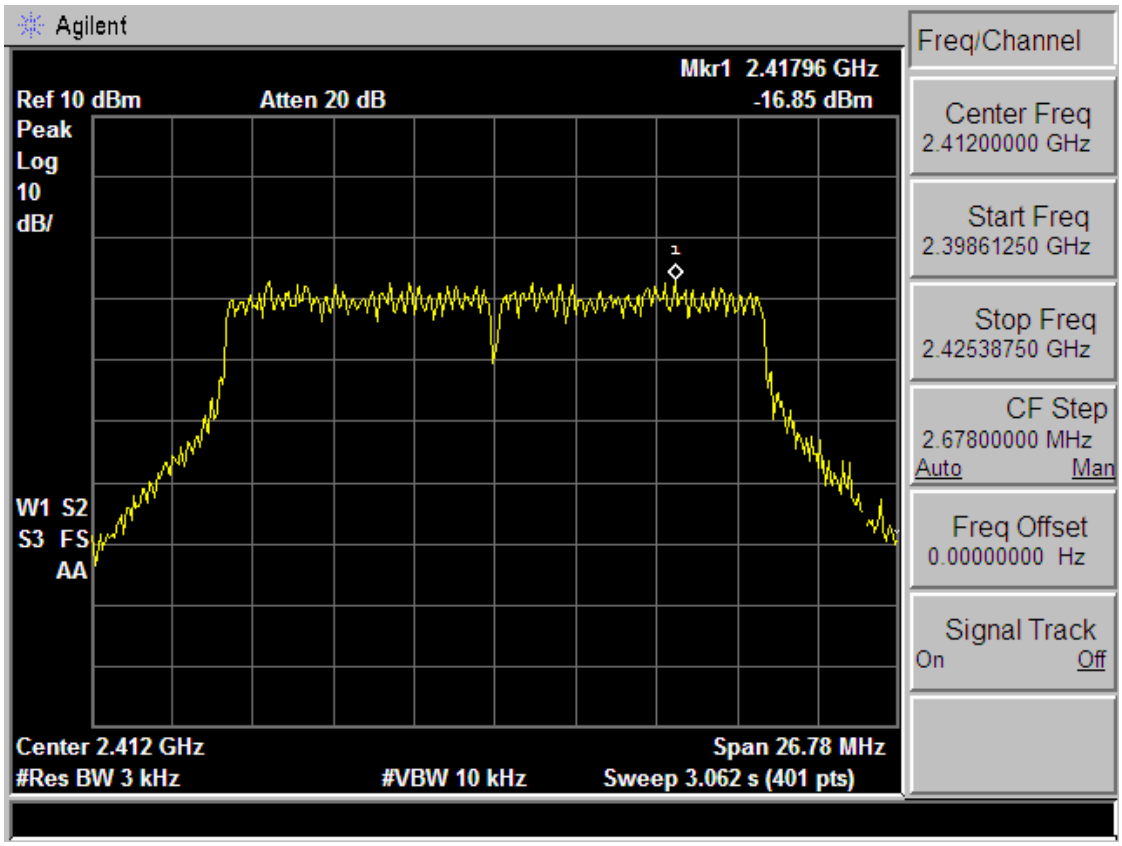
Test Mode: IEEE 802.11g 2442MHz



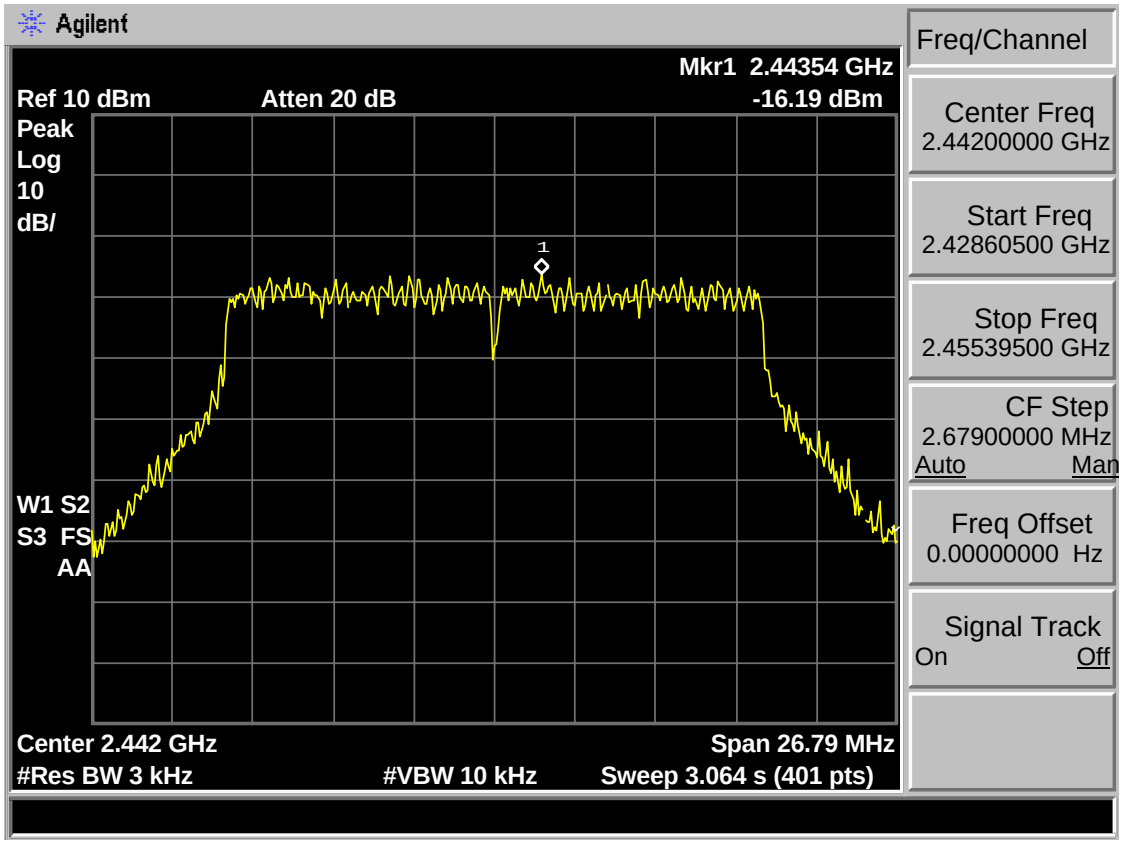
Test Mode: IEEE 802.11g 2472MHz



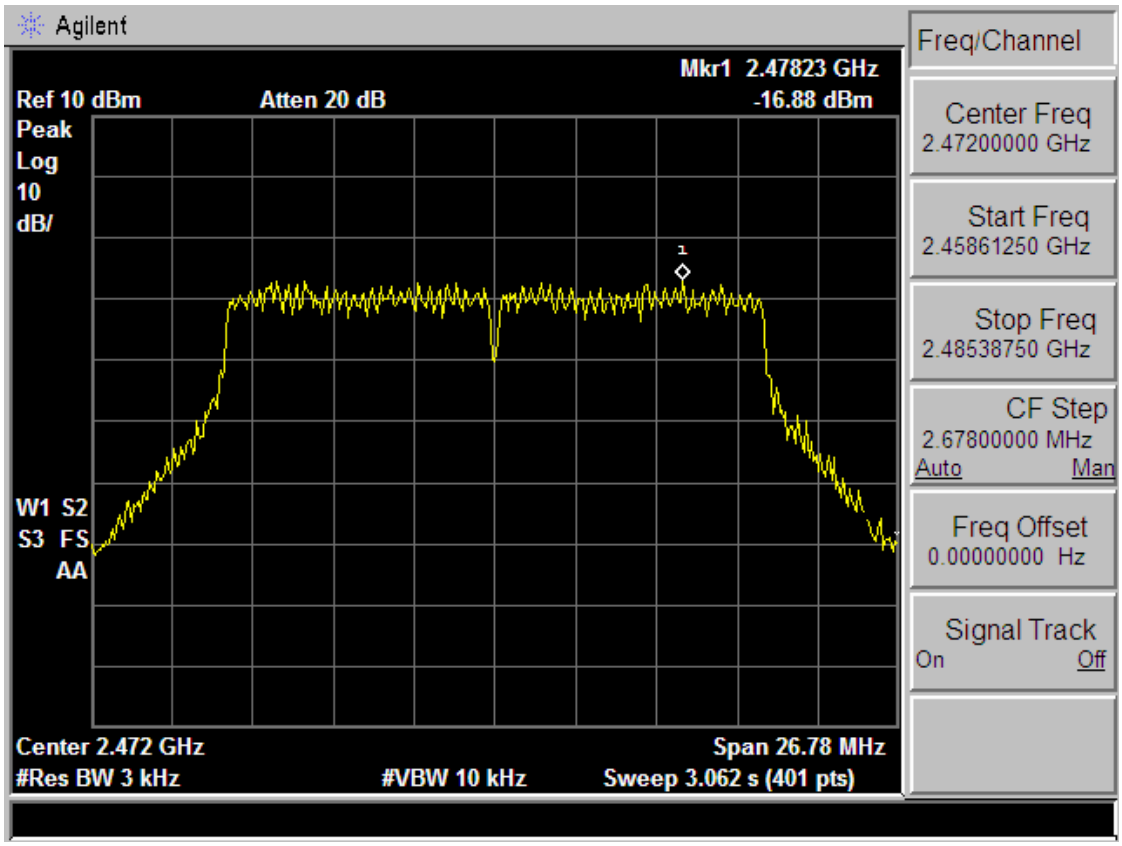
Test Mode: IEEE 802.11n HT20 2412MHz



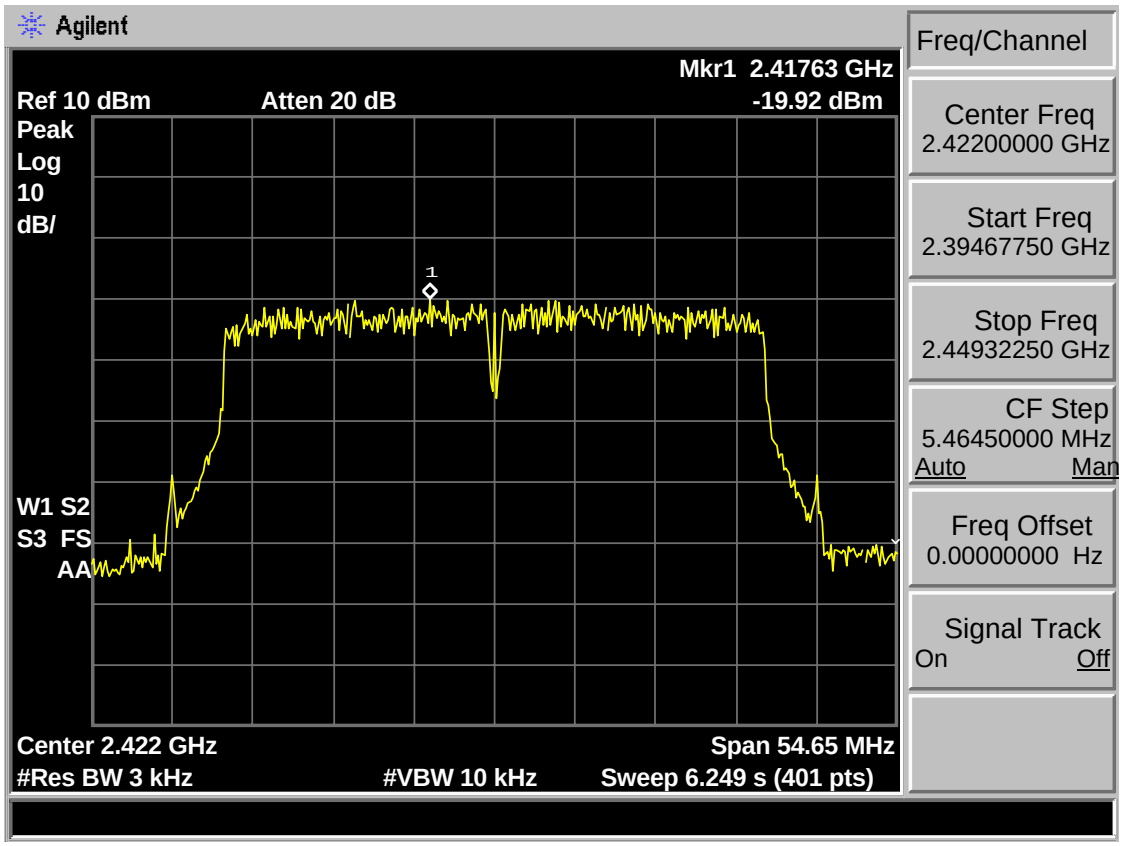
Test Mode: IEEE 802.11n HT20 2442MHz



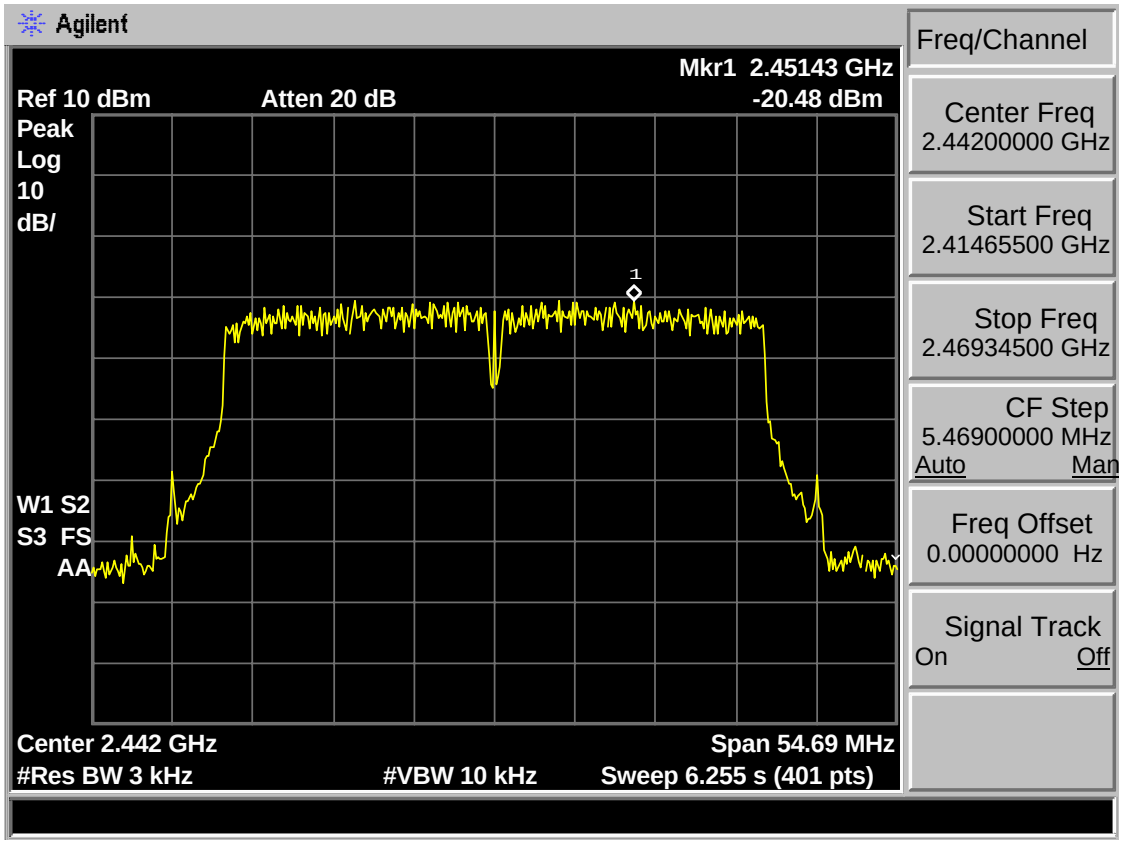
Test Mode: IEEE 802.11n HT20 2472MHz



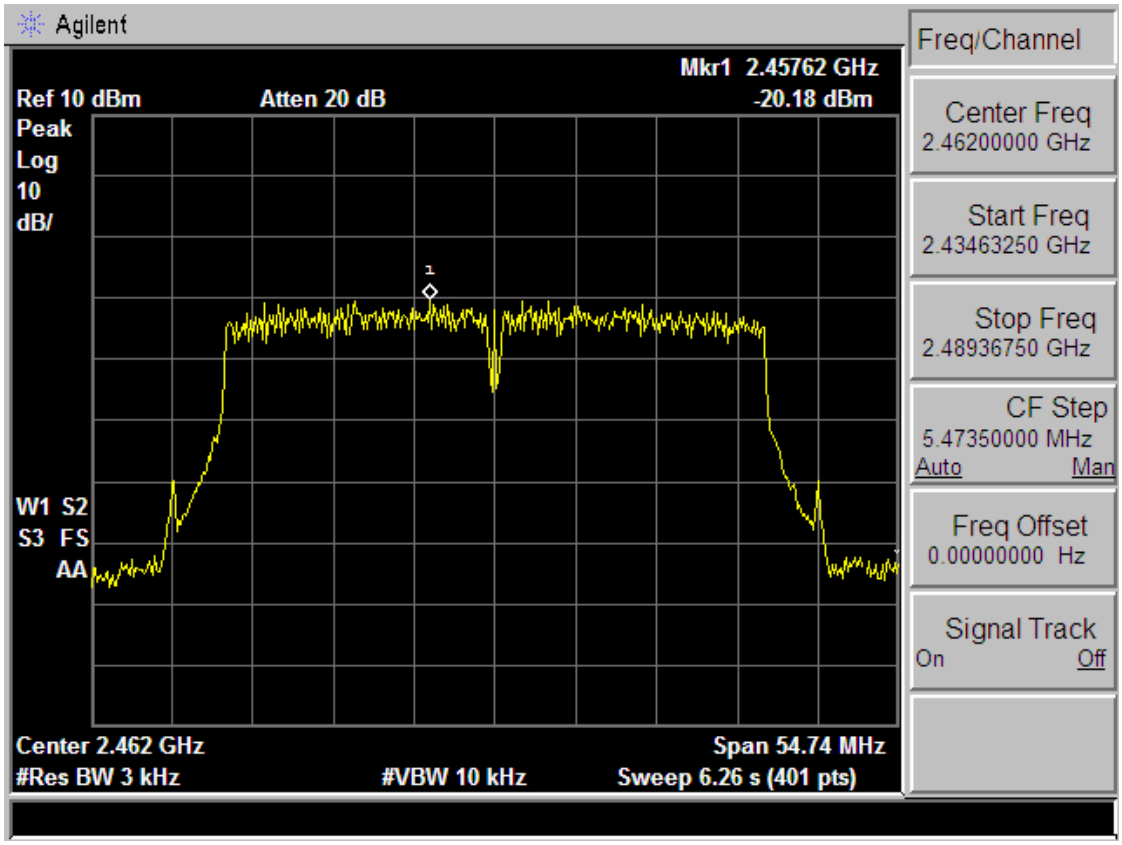
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2442MHz



Test Mode: IEEE 802.11n HT40 2462MHz



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.

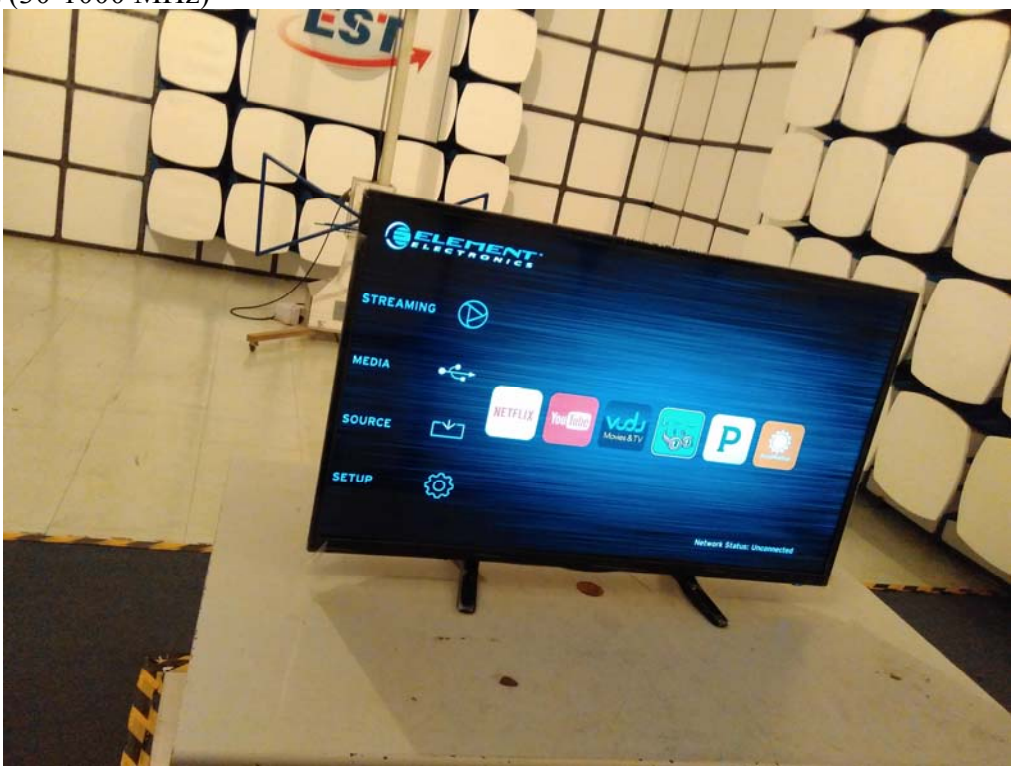
9.2 Result

The antennas used for this product are Integral 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 dBi.

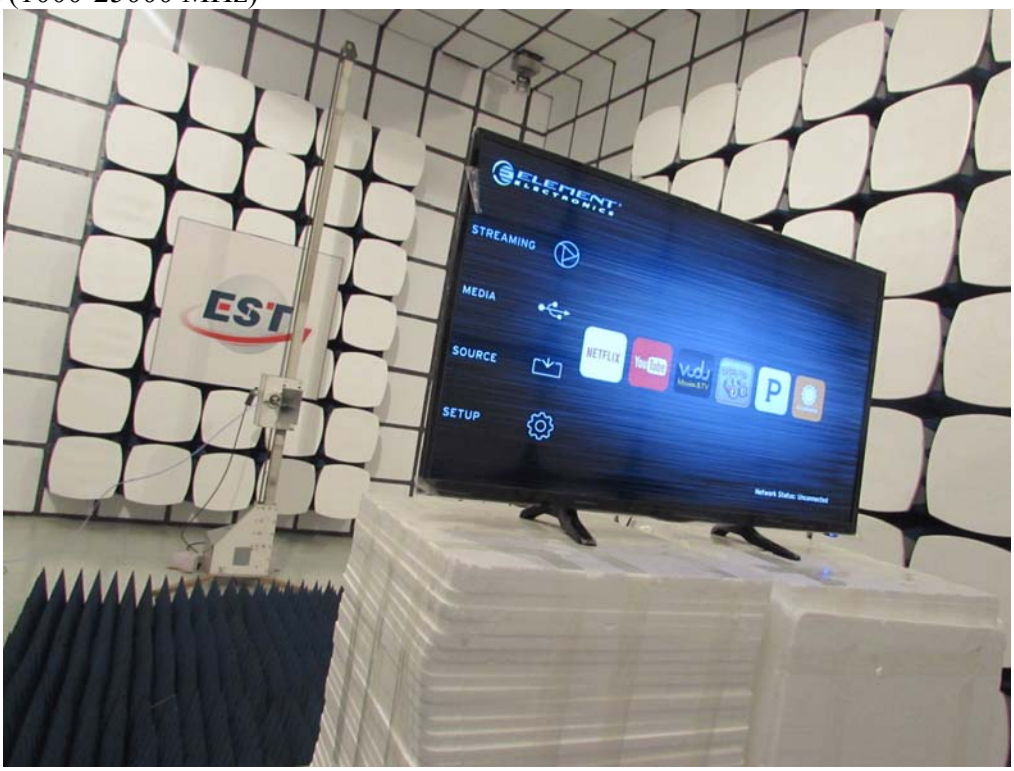
10 TEST SETUP PHOTO

Conducted Test

Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



11 PHOTOS OF EUT

External Photos

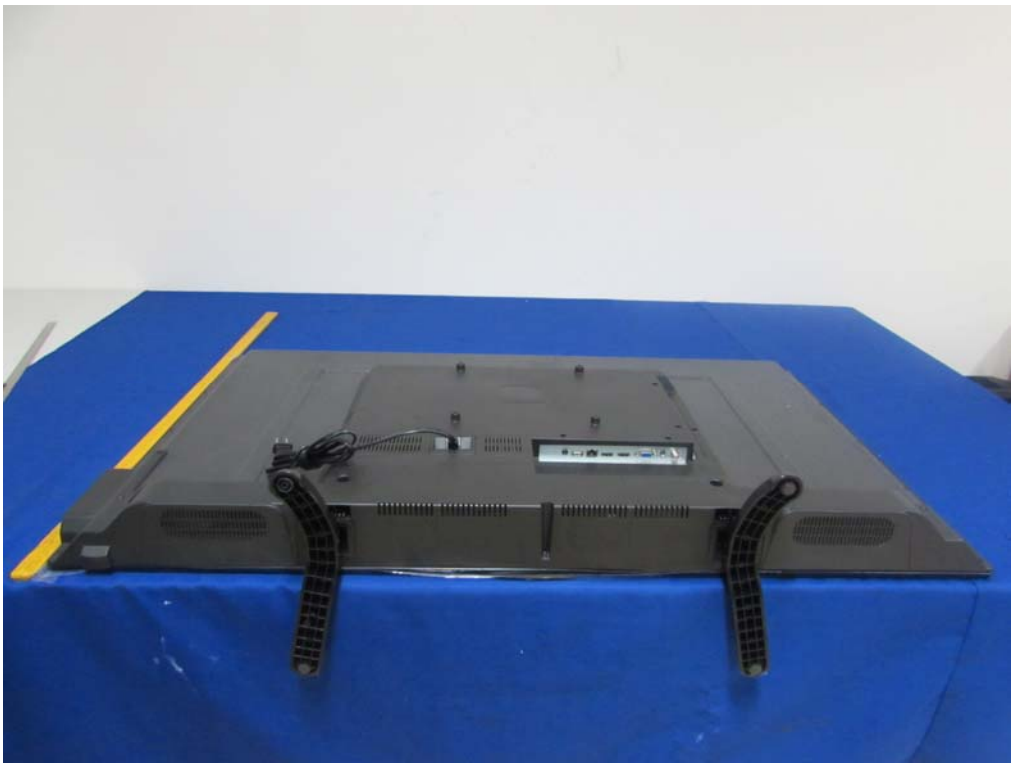
M/N: ELST5016S

External Photos

M/N: ELST5016S

External Photos

M/N: ELST5016S

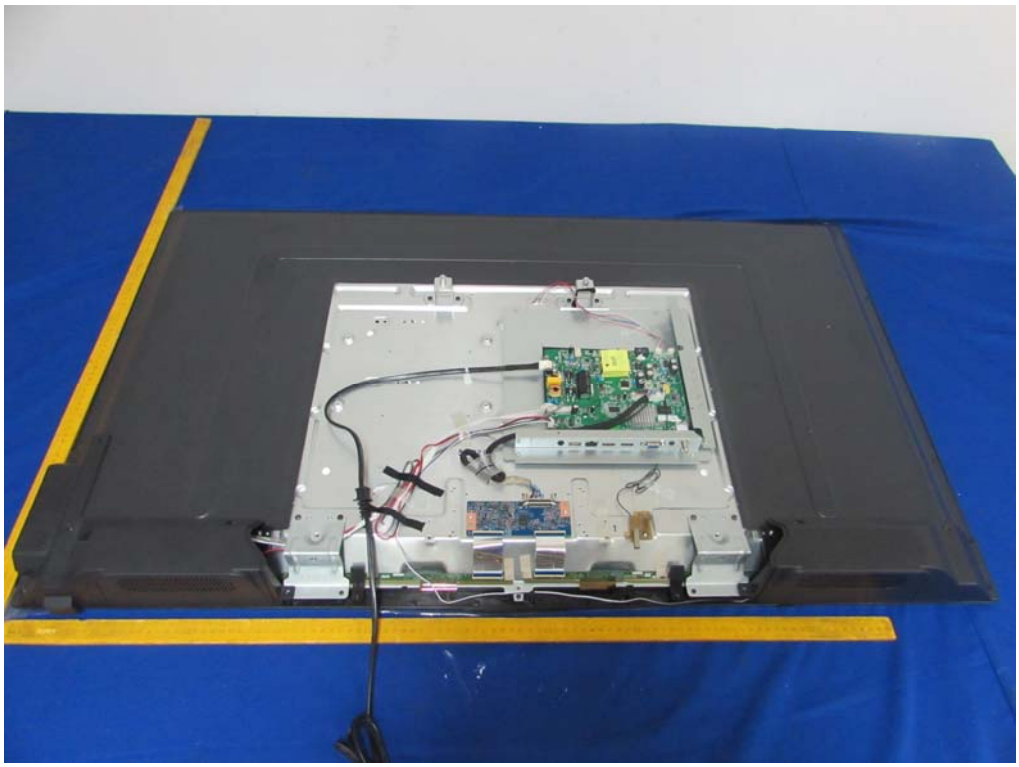


External Photos

M/N: ELST5016S

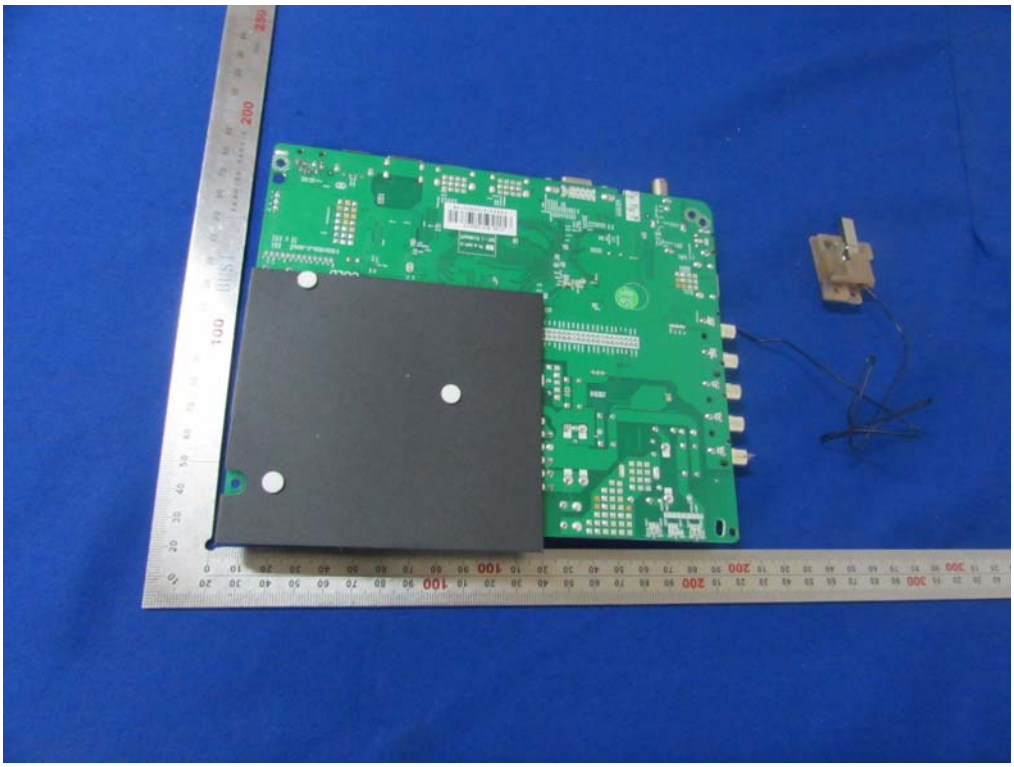
Internal Photos

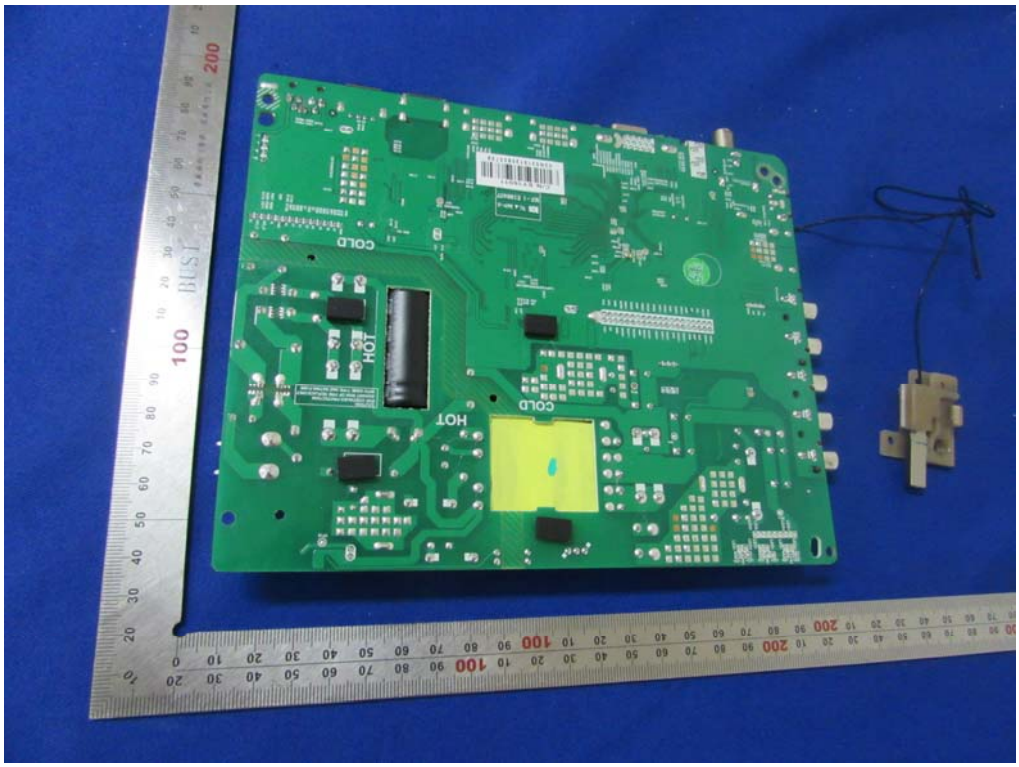
M/N: ELST5016S



Internal Photos

M/N: ELST5016S

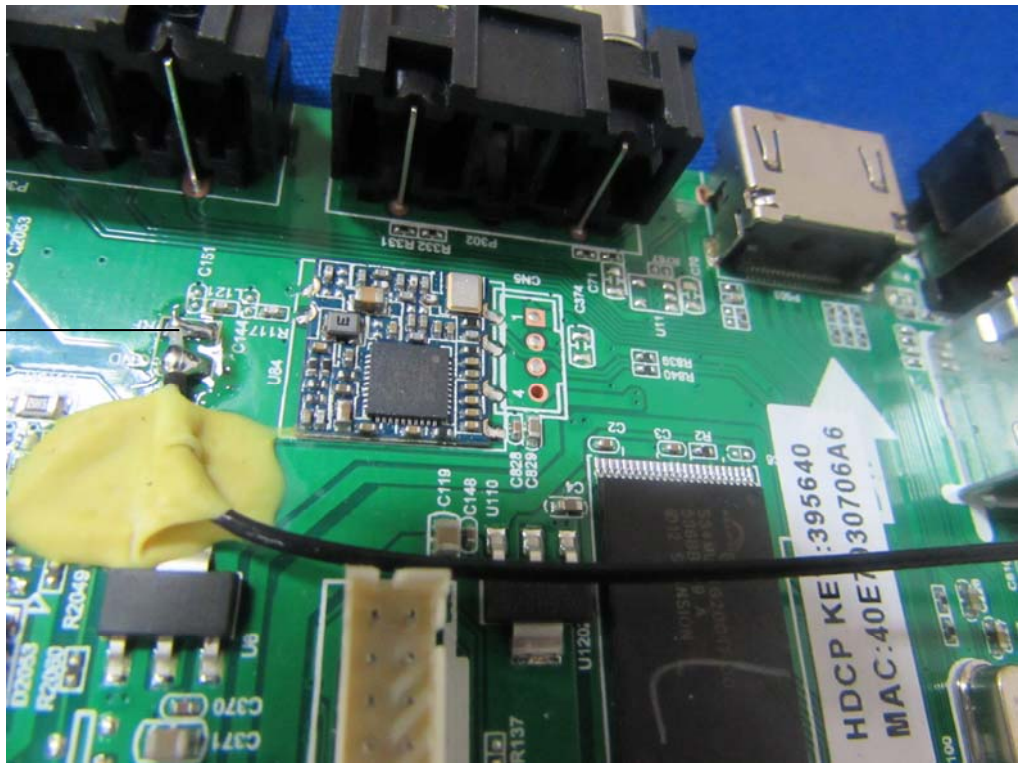


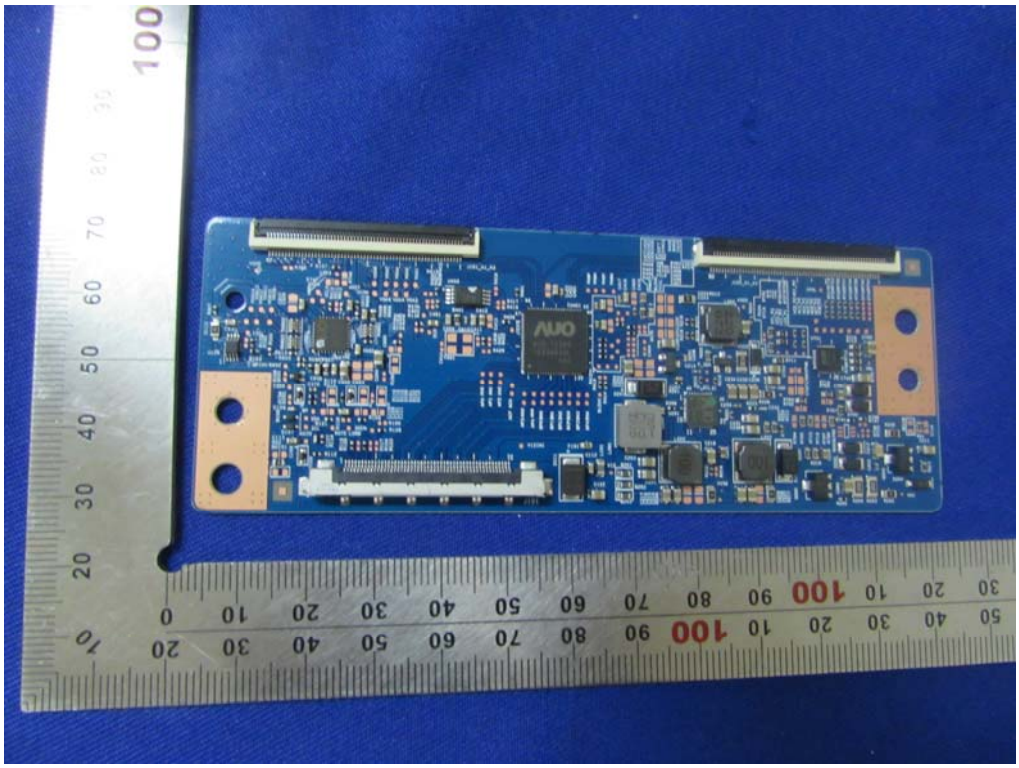


Internal Photos

M/N: ELST5016S

Wifi Antenna





Internal Photos

M/N: ELST5016S