

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Chunghsin Technology Group CO., LTD

55 inch DLED SMART TV

Model Number: E4SFT5517

FCC ID: 2AE2W-5517

Prepared for:	Chunghsin Technology Group CO., LTD
	NO. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA,
	TAIZHOU, ZHEJIANG, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
	Tel: 86-769-83081888-808

Report Number:	ESTE-R1801079
Date of Test:	Jan. 23~29, 2018
Date of Report:	Jan. 30, 2018


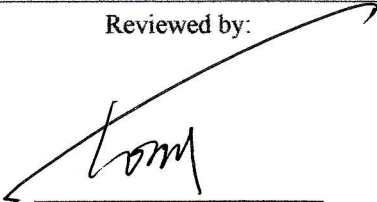


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EST Technology Co., Ltd.

Applicant:	Chunghsin Technology Group CO., LTD		
Address:	NO. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU, ZHEJIANG, China		
Manufacturer:	Chunghsin Technology Group CO., LTD		
Address:	NO. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU, ZHEJIANG, China		
E.U.T:	55 inch DLED SMART TV		
Model Number:	E4SFT5517		
Power Supply:	AC 120V~50/60Hz, 130W		
Test Voltage:	AC 120V/60Hz		
Trade Name:	element	Serial No.:	-----
Date of Receipt:	Jan. 23, 2018	Date of Test:	Jan. 23~29, 2018
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2017 ANSI C63.10:2013		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
Prepared by:		Reviewed by:	Date: Jan. 30, 2018
 <hr/> Amy / Assistant		 <hr/> Tony / Engineer	Approved by  <hr/> Iceman Hu / 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	:	55 inch DLED SMART TV	
Model Number	:	E4SFT5517	
FCC ID	:	2AE2W-5517	
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM)	
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40: 2422 ~ 2452 MHz	
Number of channel	:	IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT40 2422 ~ 2452 MHz: 7 Channels	
Antenna	:	Internal antenna	
		Directional gain:4.22dBi (Directional gain=ANT(G)+10*LOG(N)=1.21+10*LOG(2))	
		Frequency Range	Antenna 0
		2400~2483.5 MHz	1.21 dBi
		Antenna 1	1.21 dBi
		IEEE 802.11b/g Use SISO IEEE 802.11n Use MIMO	
Sample Type	:	Prototype production	

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
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: KDB 558074 D01 DTS Meas Guidance v04		

2.2. Test Facilities

EMC Lab	:	<p>Certificated by CNAS, CHINA Registration No.: L5288 Date of registration: November 13, 2017</p> <p>Certificated by A2LA, USA Registration No.: 4366.01 Date of registration: November 07, 2017</p> <p>Certificated by FCC, USA Designation Number: CN1215 Registration No.: 722932 Date of registration: November 21, 2017</p> <p>Certificated by Industry Canada Registration No.: 9405A Date of registration: December 03, 2015</p> <p>Certificated by VCCI, Japan Registration No.: R-13663; C-14103 Date of registration: July 25, 2017 This Certificate is valid until: July 24, 2020</p> <p>Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: February 07, 2015</p> <p>Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011</p> <p>Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64 Date of registration: April 28, 2011</p> <p>Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011</p>
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

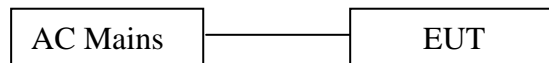
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

2.4.1. N/A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was set into Wi-Fi test mode by software before test.



(EUT: 55 inch DLED SMART TV)

2.6. 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	2437MHz	2462MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2437MHz	2462MHz
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

2.7. Channel List

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		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		
IEEE 802.11n HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	CEPREI	June 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	CEPREI	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	CEPREI	June 17,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

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

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	101780	CEPREI	June 17,17	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB1519	1519-038	CEPREI	October 08,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

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

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	101780	CEPREI	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	CEPREI	June 08,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	BBHA912 0D1002	CEPREI	June 08,17	1 Year
Horn Antenna	SCHWARZB ECK	BBHA9170	BBHA917 0242	CEPREI	June 08,17	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	CEPREI	March 12,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	CEPREI	June 17,17	1 Year
PSA Series Spertrum Analyzer	Agilent	E4447A	MY50180 031	CEPREI	June 16,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.5. For connect EUT antenna terminal test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	FSV	103173	CEPREI	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211 139	CEPREI	June 17,17	1 Year

3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

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

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

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

3.2. 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.

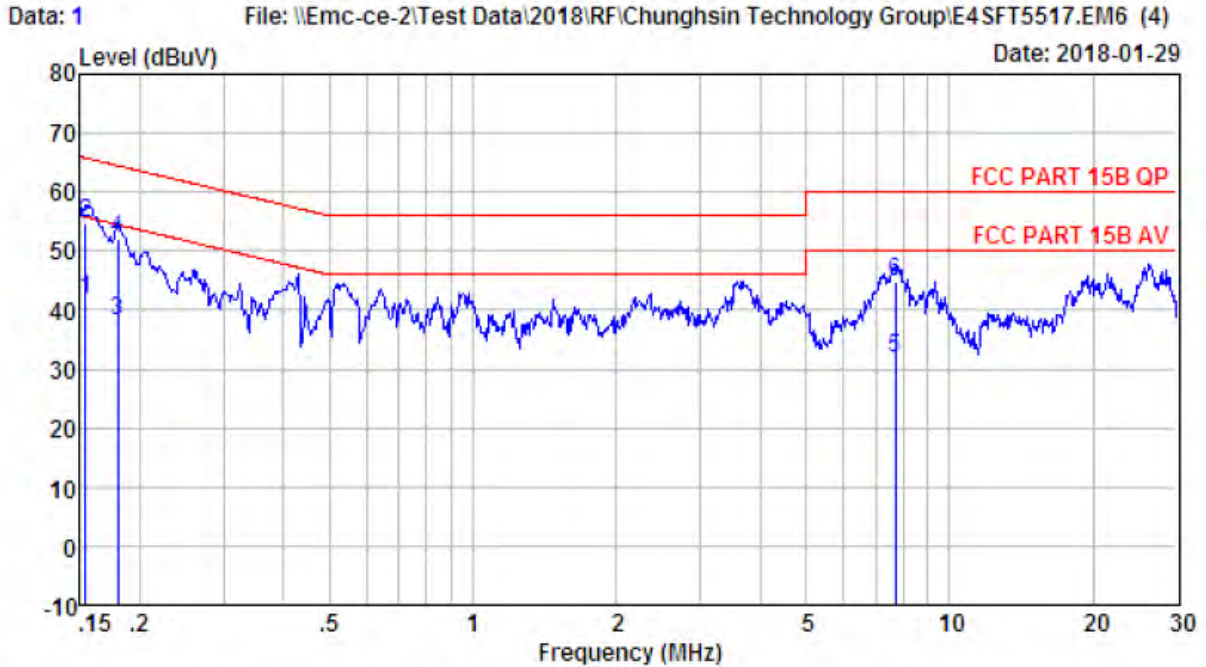
3.3. Test Result

PASS.

3.4. Test data

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel:+86-769-83081888
Fax:+86-769-83081878



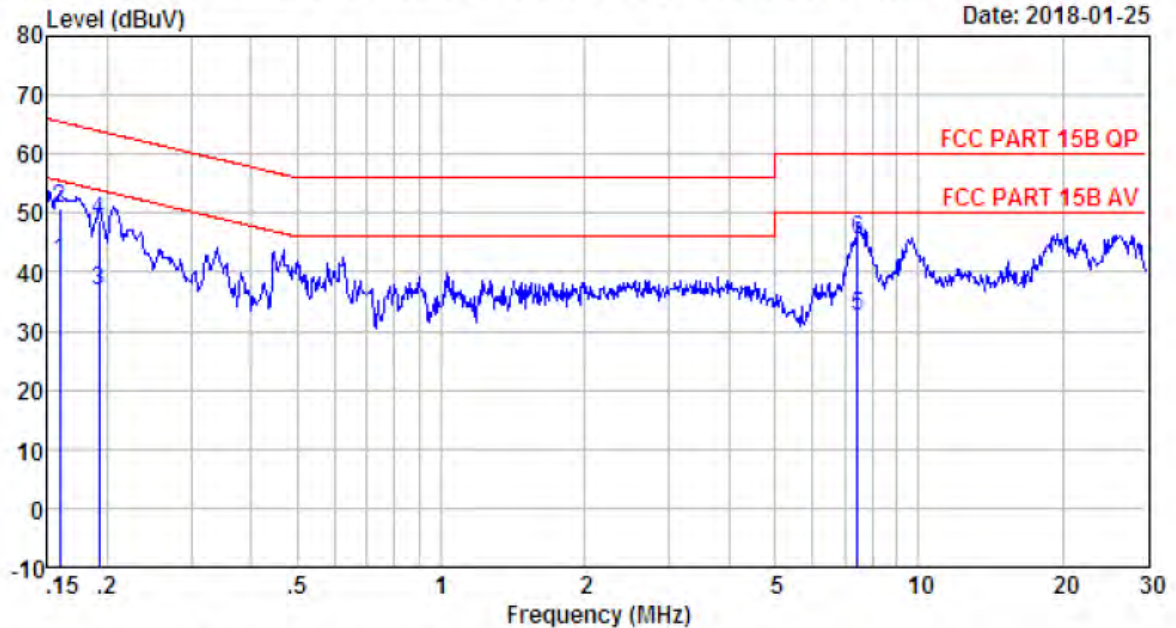
Site no : 2# Conduction Shield Room Data no. : 1
 Env. / Ins. : Temp:21.5°C Humi:52% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/50Hz
 M/N : E4SFT5517
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.15	9.66	0.04	32.09	41.79	55.78	13.99	Average
2	0.15	9.66	0.04	45.09	54.79	65.78	10.99	QP
3	0.18	9.67	0.04	28.29	38.00	54.50	16.50	Average
4	0.18	9.67	0.04	42.29	52.00	64.50	12.50	QP
5	7.69	9.88	0.08	21.74	31.70	50.00	18.30	Average
6	7.69	9.88	0.08	34.74	44.70	60.00	15.30	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

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Data: 3 File: \\Emc-ce-2\Test Data\2018\RF\Chunghsin Technology Group\E4SFT5517.EM6 (4) Date: 2018-01-25



Site no : 2# Conduction Shield Room Data no. : 3
 Env. / Ins. : Temp:21.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/50Hz
 M/N : E4SFT5517
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.16	9.64	0.04	32.21	41.89	55.52	13.63	Average
2	0.16	9.64	0.04	41.21	50.89	65.52	14.63	QP
3	0.19	9.66	0.04	27.11	36.81	53.93	17.12	Average
4	0.19	9.66	0.04	39.11	48.81	63.93	15.12	QP
5	7.45	9.95	0.08	22.55	32.58	50.00	17.42	Average
6	7.45	9.95	0.08	35.55	45.58	60.00	14.42	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4 RADIATED EMISSION TEST

4.1 Limit

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.

15.205 Restricted frequency band

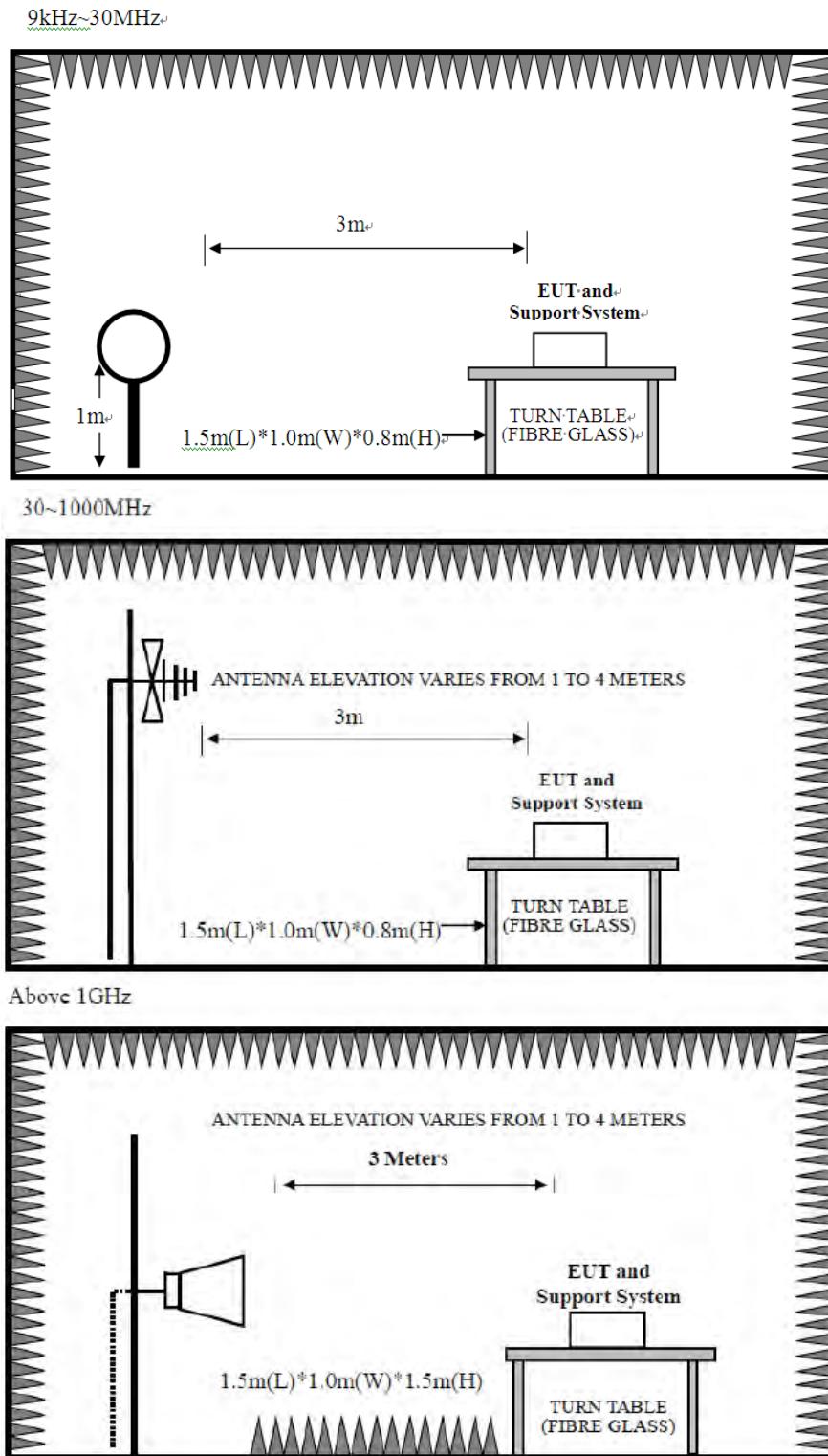
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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)

15.209 Limit

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

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

4.2. Block Diagram of Test setup



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

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

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

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

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

PEAK detector, 1MHz/10Hz for Average measurement

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

4.4. Test Result

PASS.

- 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、 2437 MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

4.5. Test Data

9 kHz – 30 MHz

Pass

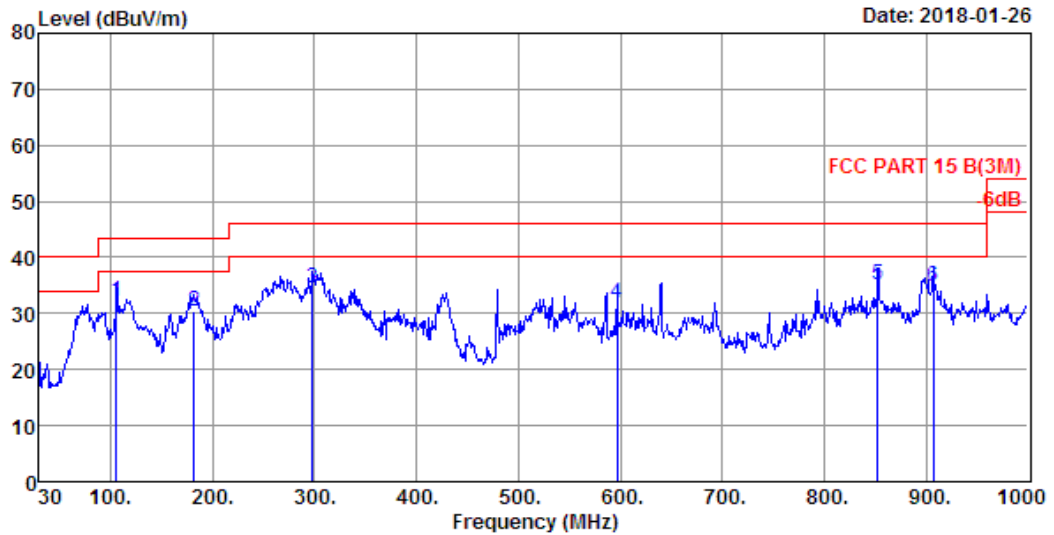
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 121 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no : 1# 966 Chamber
Env. / Ins. : Temp:23.5°C Humi:53% Press:101.50kPa
Limit : FCC PART 15 B(3M)
Engineer : Seven
EUT : 55 inch DLED SMART TV
Power : AC 120V/60Hz
M/N : E4SFT5517
Test Mode : TX Mode

Data no. : 121
LINE Phase : HORIZONTAL

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	105.66	10.50	1.09	20.60	32.19	43.50	11.31	QP
2	182.29	9.36	1.42	19.62	30.40	43.50	13.10	QP
3	297.72	13.72	2.04	18.77	34.53	46.00	11.47	QP
4	596.48	20.09	3.18	8.71	31.98	46.00	14.02	QP
5	852.56	23.25	3.89	8.02	35.16	46.00	10.84	QP
6	906.88	24.04	4.06	6.86	34.96	46.00	11.04	QP

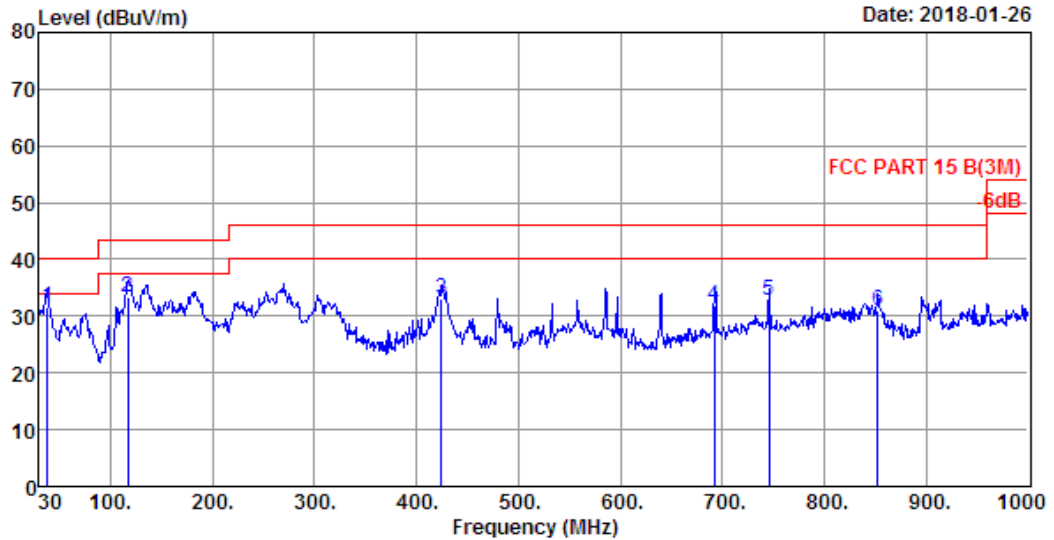
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 122 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no	: 1# 966 Chamber	Data no.	: 122
Env. / Ins.	: Temp:23.5°C Humi:53% Press:101.50kPa	LINE Phase	: VERTICAL
Limit	: FCC PART 15 B(3M)		
Engineer	: Seven		
EUT	: 55 inch DLED SMART TV		
Power	: AC 120V/60Hz		
M/N	: E4SFT5517		
Test Mode	: TX Mode		

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.76	14.00	0.36	17.12	31.48	40.00	8.52	QP
2	117.30	11.42	1.13	20.81	33.36	43.50	10.14	QP
3	424.79	16.60	2.49	14.08	33.17	46.00	12.83	QP
4	692.51	21.27	3.42	7.17	31.86	46.00	14.14	QP
5	745.86	22.14	3.82	6.74	32.70	46.00	13.30	QP
6	852.56	23.25	3.89	3.89	31.03	46.00	14.97	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

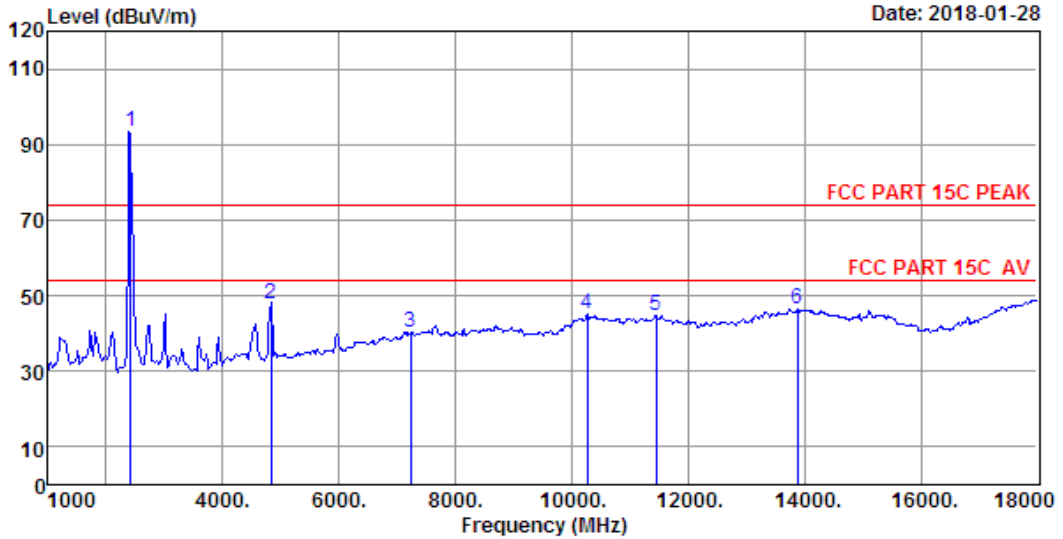


1000-18000 MHz

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel:+86-769-83081888
Fax:+86-769-83081878

Data: 61 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 61
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	0.00	62.73	93.35	74.00	-19.35	Peak
2	4824.00	32.09	4.69	0.00	10.97	47.75	74.00	26.25	Peak
3	7236.00	36.63	6.03	0.00	-2.50	40.16	74.00	33.84	Peak
4	10265.00	39.21	9.98	0.00	-4.01	45.18	74.00	28.82	Peak
5	11455.00	40.08	8.28	0.00	-3.53	44.83	74.00	29.17	Peak
6	13886.00	41.61	10.11	0.00	-5.34	46.38	74.00	27.62	Peak

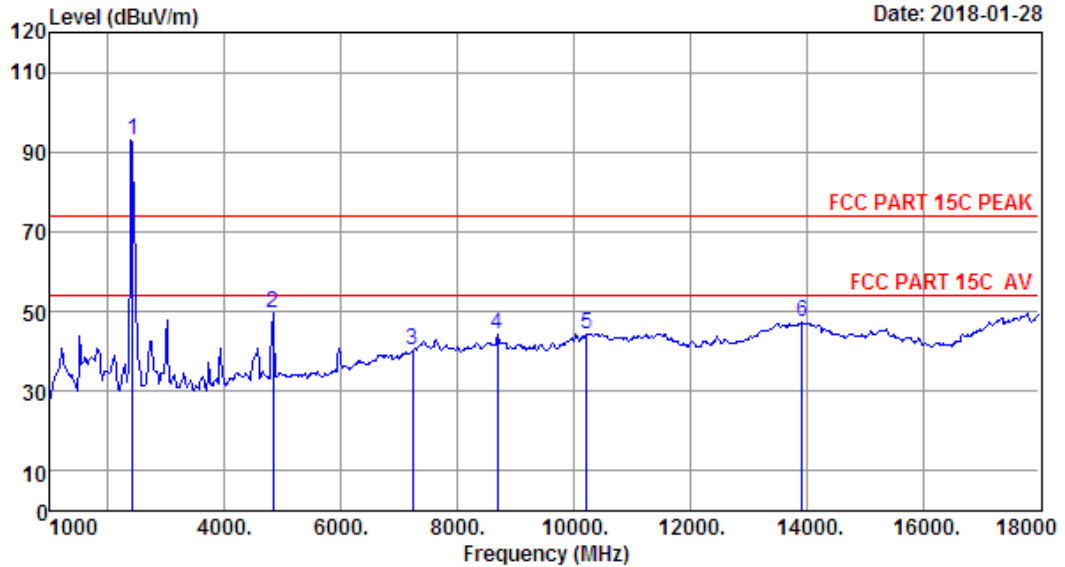
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 62 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 62
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 1

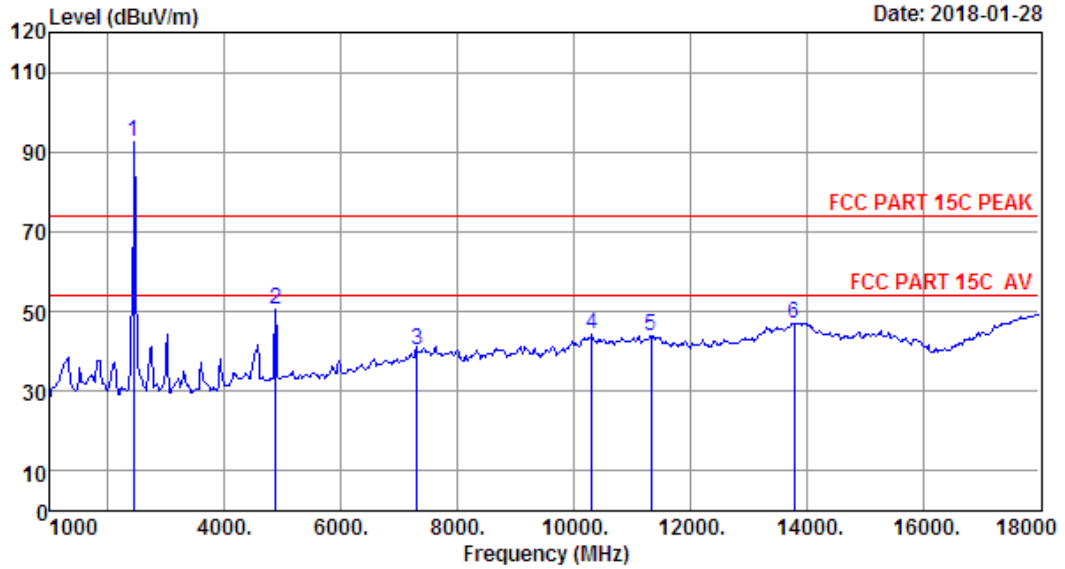
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	0.00	62.20	92.82	74.00	-18.82	Peak
2	4824.00	32.09	4.69	0.00	12.76	49.54	74.00	24.46	Peak
3	7236.00	36.63	6.03	0.00	-2.18	40.48	74.00	33.52	Peak
4	8684.00	37.46	6.90	0.00	0.03	44.39	74.00	29.61	Peak
5	10214.00	39.19	9.77	0.00	-4.50	44.46	74.00	29.54	Peak
6	13920.00	41.63	10.11	0.00	-4.54	47.20	74.00	26.80	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 63 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 63
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH6 TX 2437MHz
 ANT 1

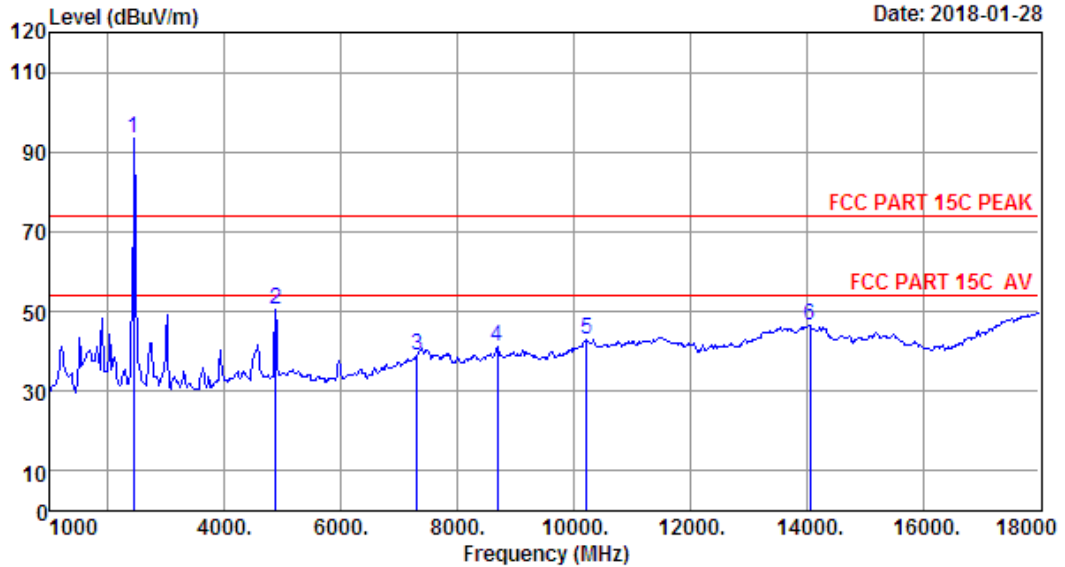
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	0.00	61.70	92.44	74.00	-18.44	Peak
2	4874.00	32.18	4.73	0.00	13.68	50.59	74.00	23.41	Peak
3	7311.00	36.78	6.09	0.00	-2.53	40.34	74.00	33.66	Peak
4	10316.00	39.23	10.20	0.00	-5.34	44.09	74.00	29.91	Peak
5	11336.00	40.03	8.32	0.00	-4.40	43.95	74.00	30.05	Peak
6	13784.00	41.53	10.05	0.00	-4.60	46.98	74.00	27.02	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 64 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 64
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH6 TX 2437MHz
 ANT 1

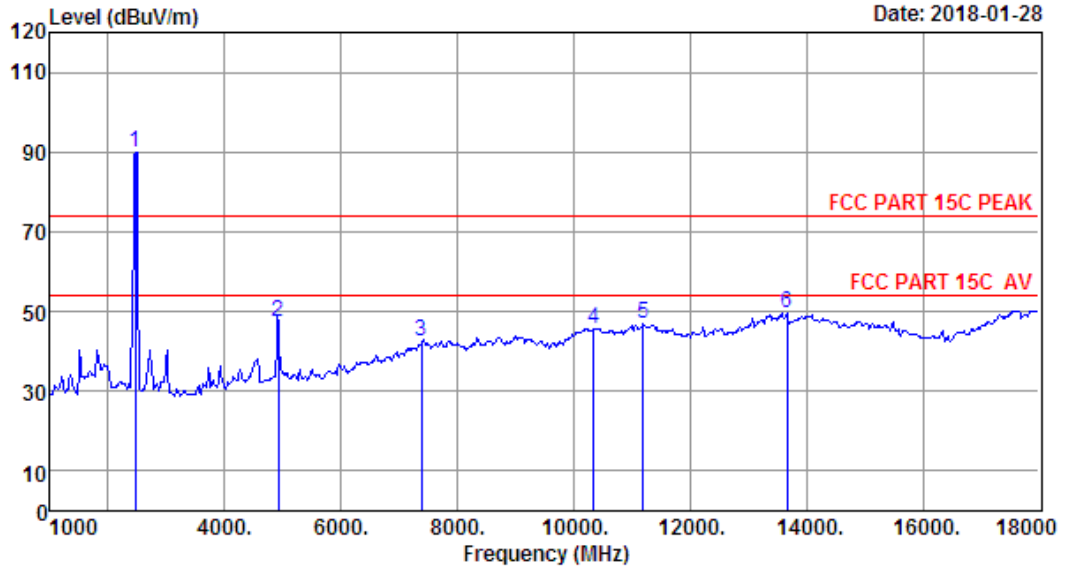
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	0.00	62.63	93.37	74.00	-19.37	Peak
2	4874.00	32.18	4.73	0.00	13.46	50.37	74.00	23.63	Peak
3	7311.00	36.78	6.09	0.00	-3.93	38.94	74.00	35.06	Peak
4	8684.00	37.46	6.90	0.00	-3.28	41.08	74.00	32.92	Peak
5	10214.00	39.19	9.77	0.00	-6.07	42.89	74.00	31.11	Peak
6	14056.00	41.65	10.13	0.00	-5.33	46.45	74.00	27.55	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 65 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 65
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 1

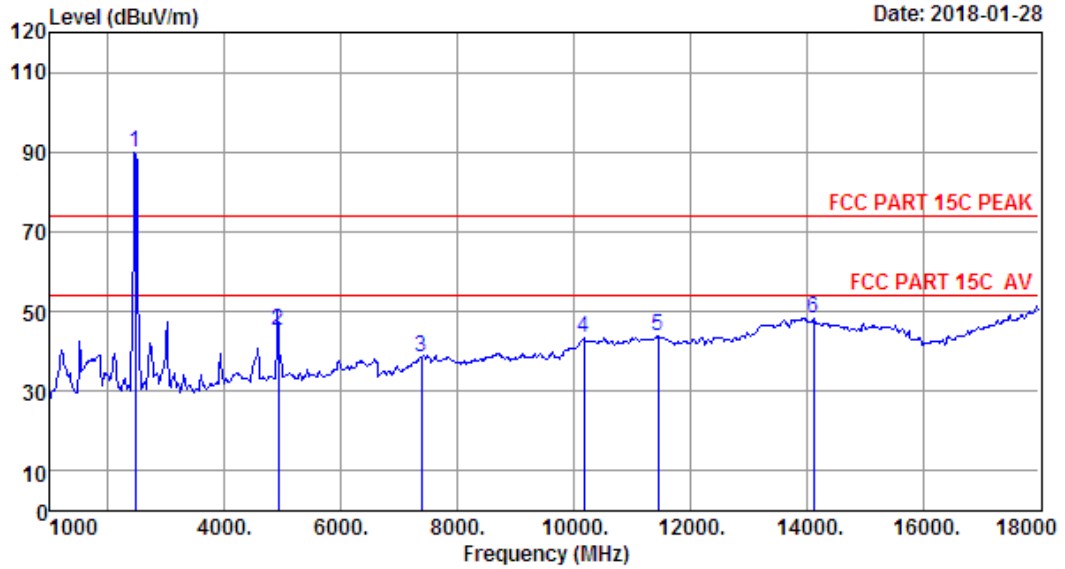
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	0.00	59.05	89.84	74.00	-15.84	Peak
2	4924.00	32.28	4.77	0.00	10.21	47.26	74.00	26.74	Peak
3	7386.00	36.97	6.12	0.00	-0.76	42.33	74.00	31.67	Peak
4	10350.00	39.24	10.10	0.00	-3.55	45.79	74.00	28.21	Peak
5	11200.00	39.98	8.43	0.00	-1.48	46.93	74.00	27.07	Peak
6	13665.00	41.43	9.89	0.00	-1.74	49.58	74.00	24.42	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 66 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 66
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 1

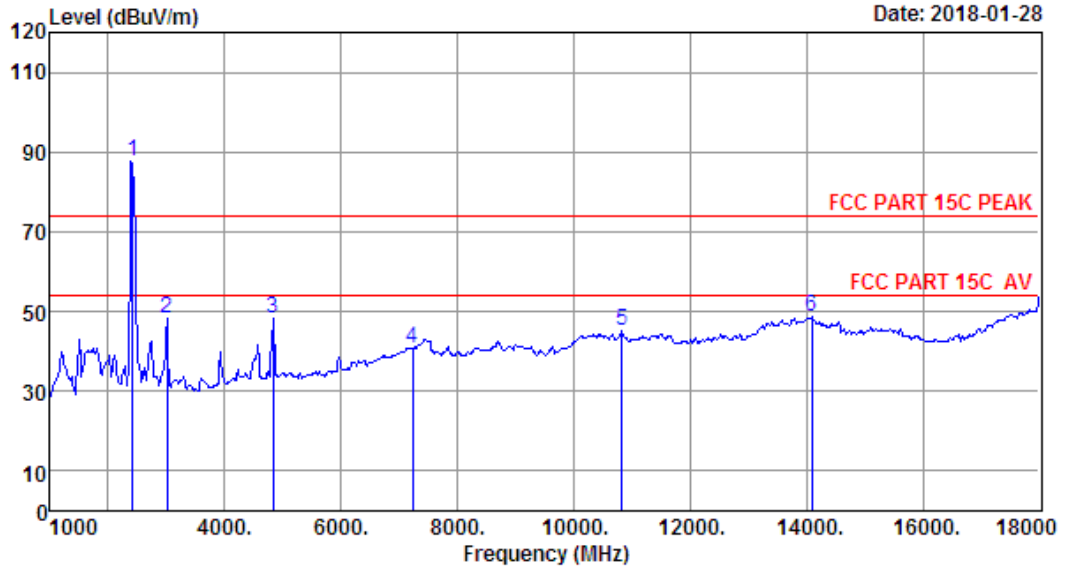
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	0.00	58.90	89.69	74.00	-15.69	Peak
2	4924.00	32.28	4.77	0.00	8.33	45.38	74.00	28.62	Peak
3	7386.00	36.97	6.12	0.00	-4.41	38.68	74.00	35.32	Peak
4	10180.00	39.17	9.62	0.00	-5.45	43.34	74.00	30.66	Peak
5	11455.00	40.08	8.28	0.00	-4.60	43.76	74.00	30.24	Peak
6	14124.00	41.58	10.14	0.00	-3.28	48.44	74.00	25.56	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 67 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 67
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 1

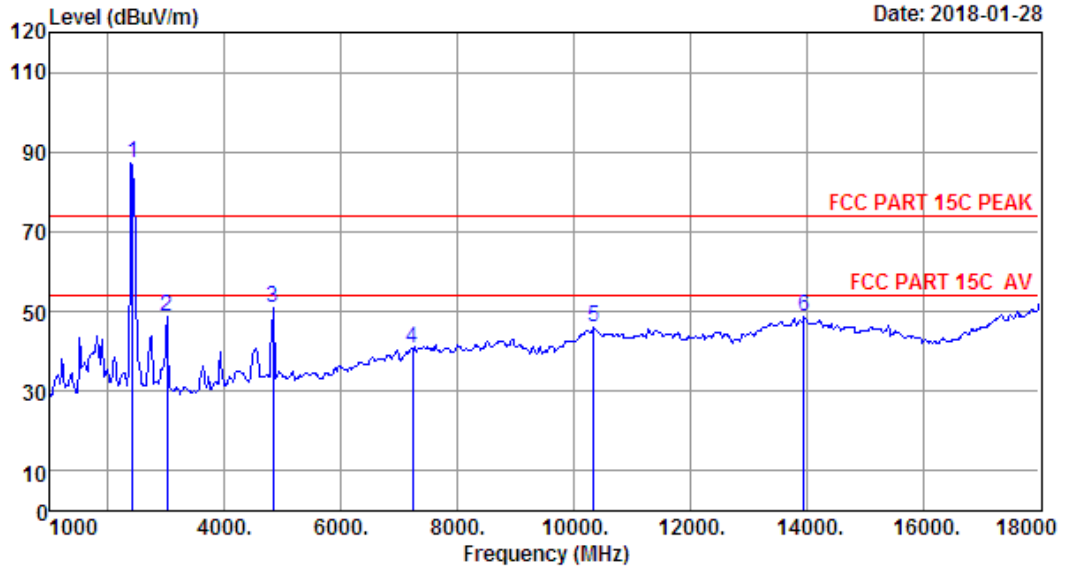
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	91.98	87.66	74.00	-13.66	Peak
2	3006.00	28.40	3.60	37.17	53.32	48.15	74.00	25.85	Peak
3	4824.00	32.09	4.69	35.08	46.46	48.16	74.00	25.84	Peak
4	7236.00	36.63	6.03	33.42	31.70	40.94	74.00	33.06	Peak
5	10826.00	39.69	8.70	33.67	30.28	45.00	74.00	29.00	Peak
6	14090.00	41.61	10.14	32.99	29.84	48.60	74.00	25.40	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 68 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 68
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 1

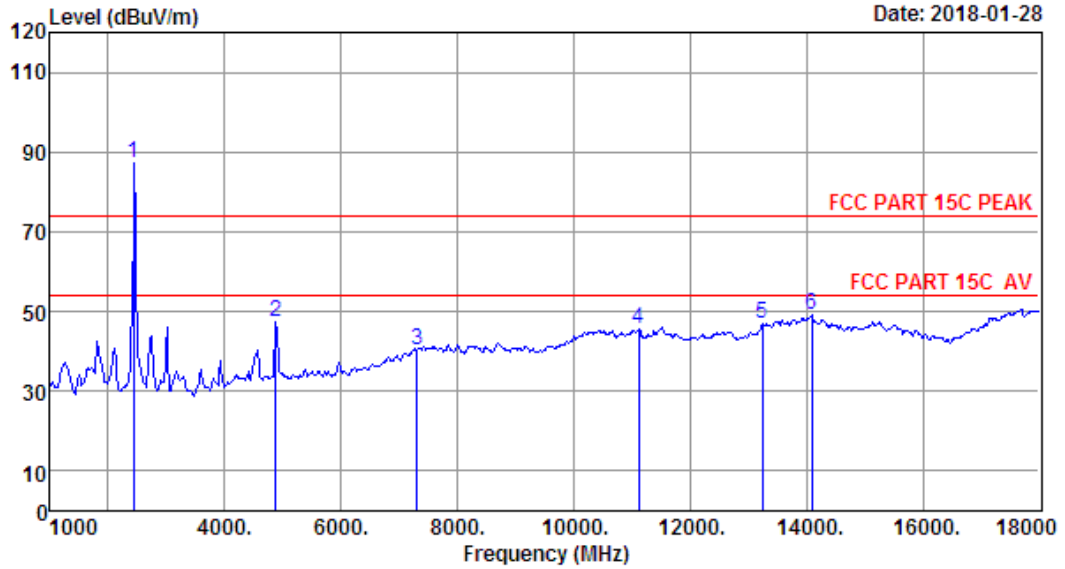
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	91.52	87.20	74.00	-13.20	Peak
2	3006.00	28.40	3.60	37.17	53.98	48.81	74.00	25.19	Peak
3	4824.00	32.09	4.69	35.08	49.26	50.96	74.00	23.04	Peak
4	7236.00	36.63	6.03	33.42	31.59	40.83	74.00	33.17	Peak
5	10350.00	39.24	10.10	34.30	30.98	46.02	74.00	27.98	Peak
6	13954.00	41.66	10.12	32.84	29.83	48.77	74.00	25.23	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 69 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 69
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH6 TX 2437MHz
 ANT 1

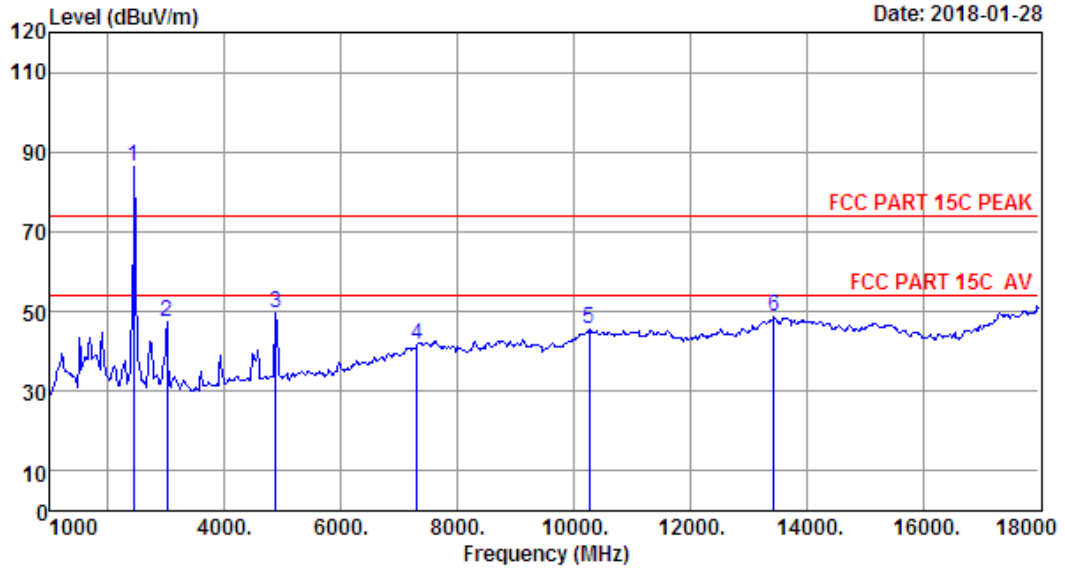
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	91.72	87.39	74.00	-13.39	Peak
2	4874.00	32.18	4.73	35.14	45.43	47.20	74.00	26.80	Peak
3	7311.00	36.78	6.09	33.31	30.94	40.50	74.00	33.50	Peak
4	11115.00	39.95	8.49	33.23	30.40	45.61	74.00	28.39	Peak
5	13240.00	40.68	9.32	32.68	29.55	46.87	74.00	27.13	Peak
6	14090.00	41.61	10.14	32.99	30.26	49.02	74.00	24.98	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 70 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 70
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH6 TX 2437MHz
 ANT 1

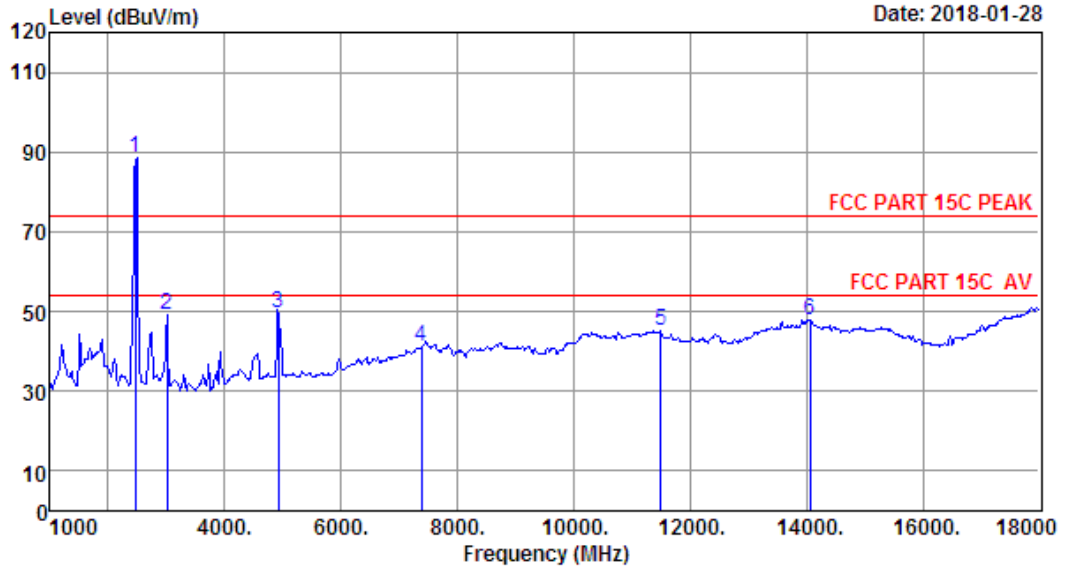
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	90.66	86.33	74.00	-12.33	Peak
2	3006.00	28.40	3.60	37.17	52.53	47.36	74.00	26.64	Peak
3	4874.00	32.18	4.73	35.14	47.81	49.58	74.00	24.42	Peak
4	7311.00	36.78	6.09	33.31	31.99	41.55	74.00	32.45	Peak
5	10265.00	39.21	9.98	34.39	30.62	45.42	74.00	28.58	Peak
6	13444.00	41.18	9.59	32.59	30.55	48.73	74.00	25.27	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 71 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : site Data no. : 71
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 1

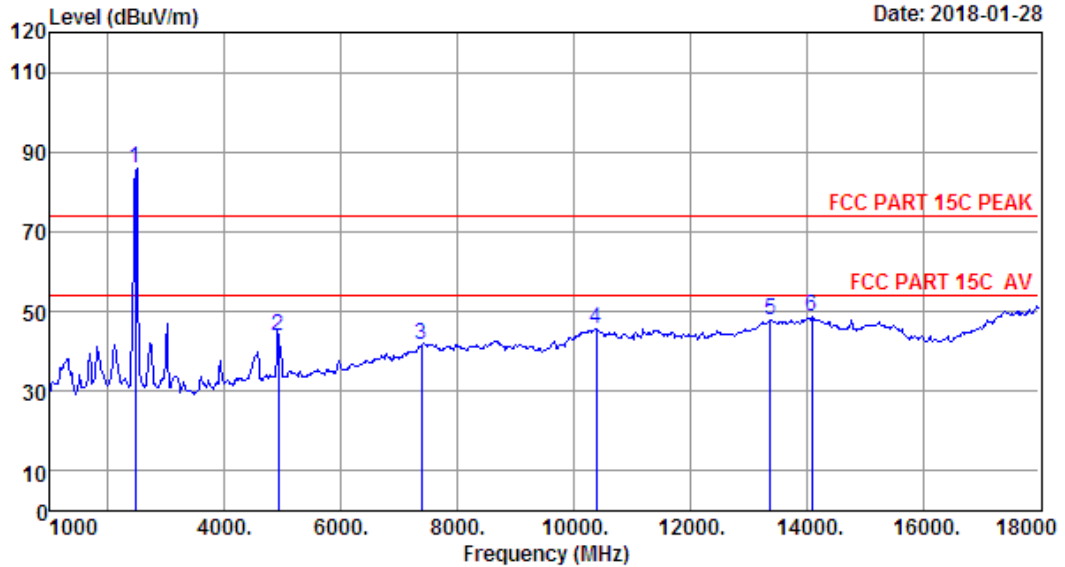
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	92.85	88.50	74.00	-14.50	Peak
2	3006.00	28.40	3.60	37.17	54.23	49.06	74.00	24.94	Peak
3	4924.00	32.28	4.77	35.20	47.54	49.39	74.00	24.61	Peak
4	7386.00	36.97	6.12	33.17	31.15	41.07	74.00	32.93	Peak
5	11489.00	40.09	8.28	32.58	29.17	44.96	74.00	29.04	Peak
6	14056.00	41.65	10.13	32.95	29.17	48.00	74.00	26.00	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 72 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 72
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 1

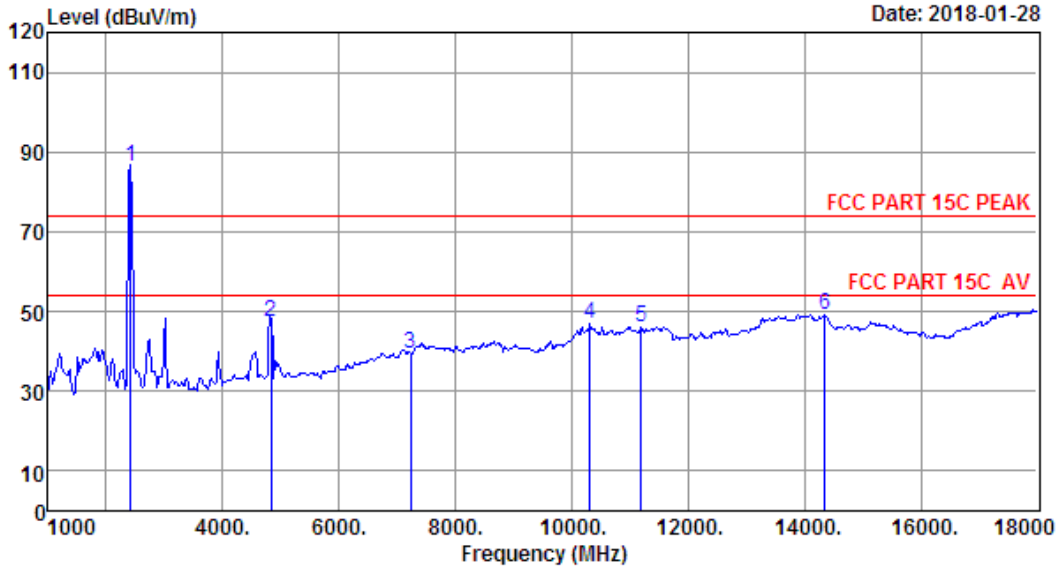
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	90.05	85.70	74.00	-11.70	Peak
2	4924.00	32.28	4.77	35.20	42.14	43.99	74.00	30.01	Peak
3	7386.00	36.97	6.12	33.17	31.80	41.72	74.00	32.28	Peak
4	10384.00	39.25	10.00	34.26	30.68	45.67	74.00	28.33	Peak
5	13376.00	41.01	9.50	32.62	30.04	47.93	74.00	26.07	Peak
6	14090.00	41.61	10.14	32.99	29.84	48.60	74.00	25.40	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 73 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 73
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH1 TX 2412MHz
 ANT 1+2

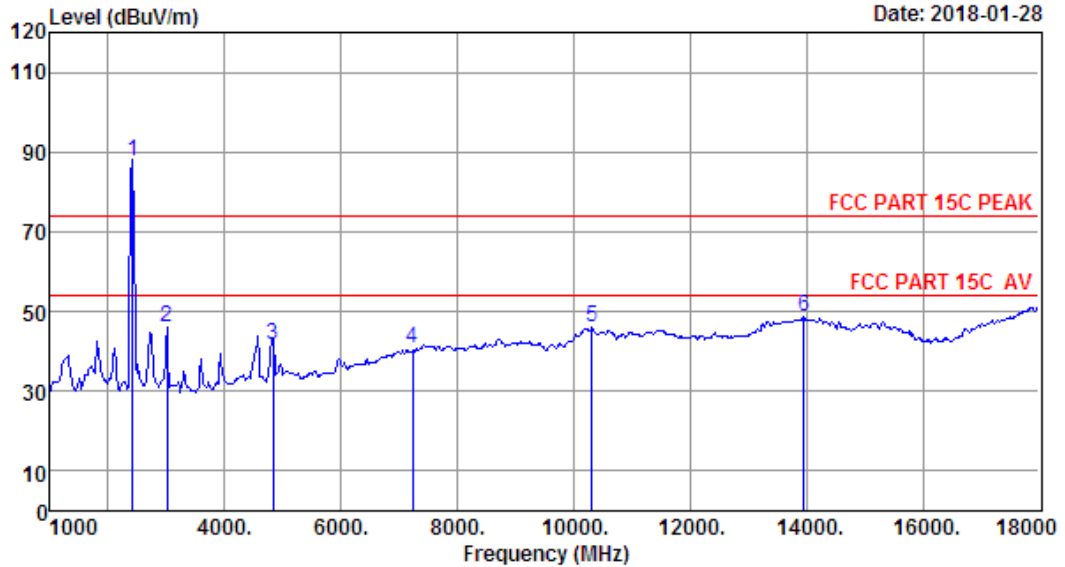
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	90.68	86.36	74.00	-12.36	Peak
2	4824.00	32.09	4.69	35.08	45.59	47.29	74.00	26.71	Peak
3	7236.00	36.63	6.03	33.42	30.28	39.52	74.00	34.48	Peak
4	10316.00	39.23	10.20	34.34	31.63	46.72	74.00	27.28	Peak
5	11200.00	39.98	8.43	33.10	30.91	46.22	74.00	27.78	Peak
6	14345.00	41.36	10.18	33.31	31.01	49.24	74.00	24.76	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 74 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 74
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH1 TX 2412MHz
 ANT 1+2

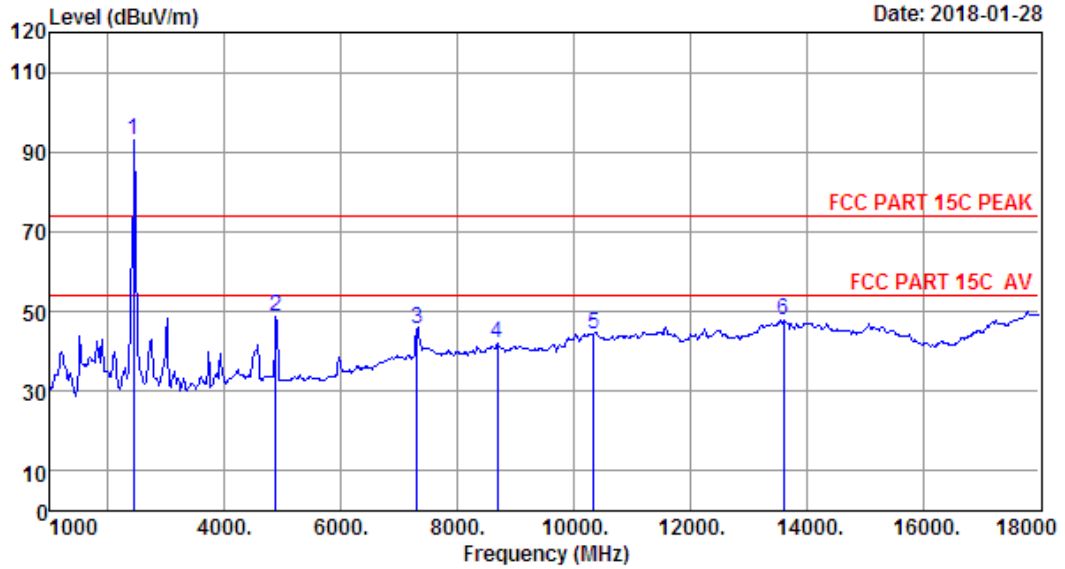
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	92.05	87.73	74.00	-13.73	Peak
2	3006.00	28.40	3.60	37.17	51.30	46.13	74.00	27.87	Peak
3	4824.00	32.09	4.69	35.08	39.88	41.58	74.00	32.42	Peak
4	7236.00	36.63	6.03	33.42	31.69	40.93	74.00	33.07	Peak
5	10316.00	39.23	10.20	34.34	30.81	45.90	74.00	28.10	Peak
6	13954.00	41.66	10.12	32.84	29.78	48.72	74.00	25.28	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 75 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)

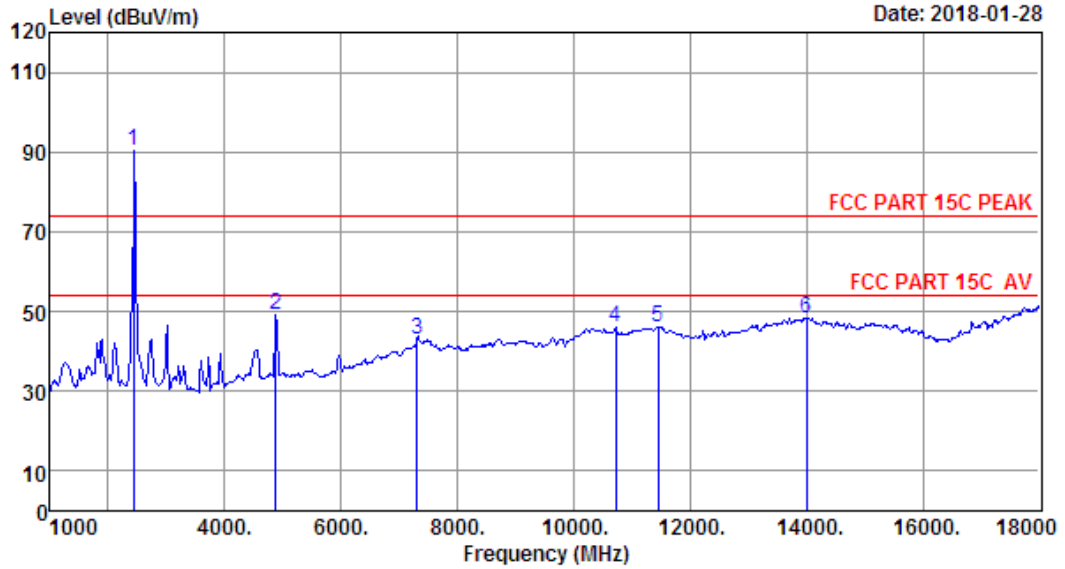


Site no. : 1# 966 Chamber Data no. : 75
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH6 TX 2437MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	97.22	92.89	74.00	-18.89	Peak
2	4874.00	32.18	4.73	35.14	47.13	48.90	74.00	25.10	Peak
3	7311.00	36.78	6.09	33.31	36.23	45.79	74.00	28.21	Peak
4	8684.00	37.46	6.90	33.06	30.60	41.90	74.00	32.10	Peak
5	10350.00	39.24	10.10	34.30	29.29	44.33	74.00	29.67	Peak
6	13614.00	41.39	9.82	32.59	29.26	47.88	74.00	26.12	Peak

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

Data: 76 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 76
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH6 TX 2437MHz
 ANT 1+2

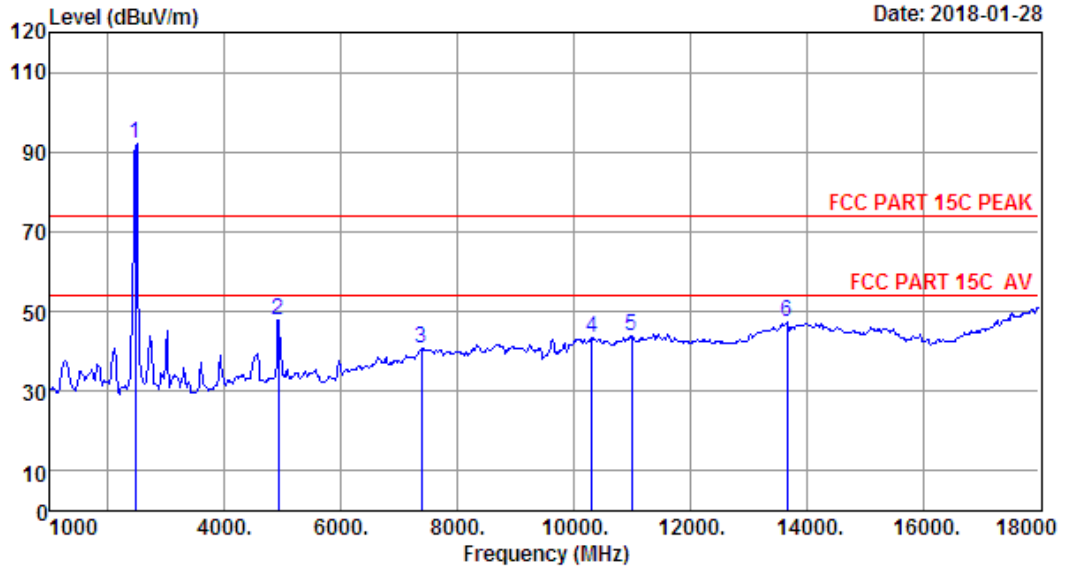
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	94.60	90.27	74.00	-16.27	Peak
2	4874.00	32.18	4.73	35.14	47.58	49.35	74.00	24.65	Peak
3	7311.00	36.78	6.09	33.31	33.35	42.91	74.00	31.09	Peak
4	10724.00	39.57	9.00	33.82	31.14	45.89	74.00	28.11	Peak
5	11455.00	40.08	8.28	32.62	30.46	46.20	74.00	27.80	Peak
6	14005.00	41.70	10.13	32.88	29.42	48.37	74.00	25.63	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 77 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 77
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH11 TX 2462MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	96.54	92.19	74.00	-18.19	Peak
2	4924.00	32.28	4.77	35.20	45.98	47.83	74.00	26.17	Peak
3	7386.00	36.97	6.12	33.17	30.85	40.77	74.00	33.23	Peak
4	10316.00	39.23	10.20	34.34	28.45	43.54	74.00	30.46	Peak
5	10996.00	39.90	8.57	33.45	28.76	43.78	74.00	30.22	Peak
6	13665.00	41.43	9.89	32.62	28.87	47.57	74.00	26.43	Peak

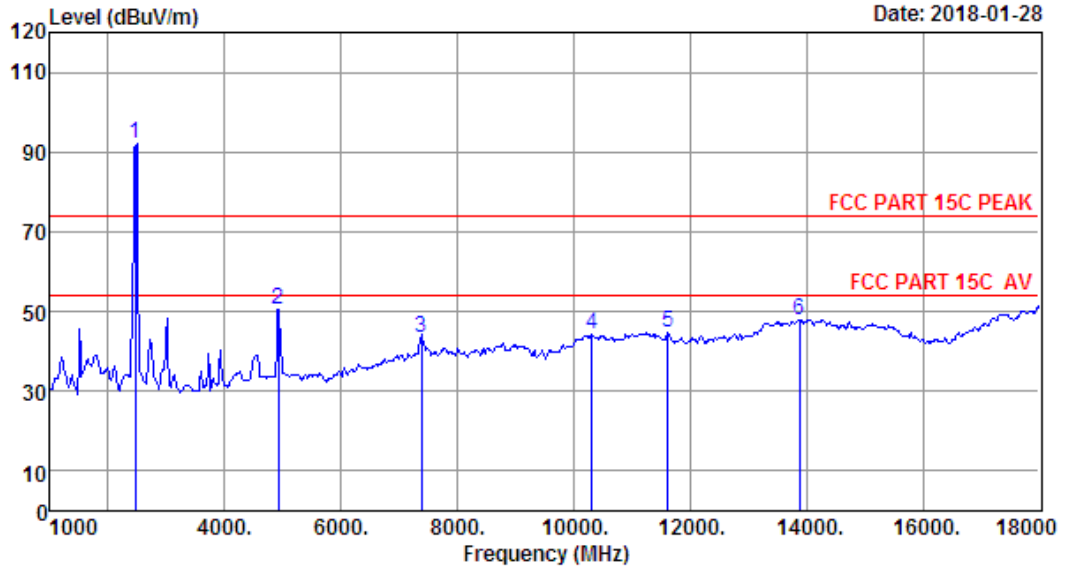
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 78 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 78
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH11 TX 2462MHz
 ANT 1+2

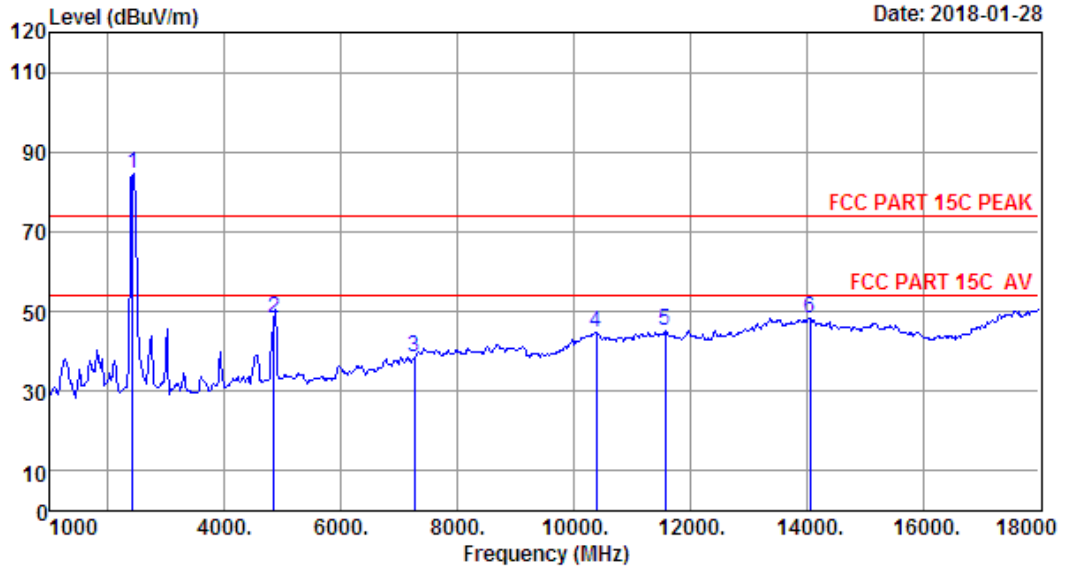
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	96.50	92.15	74.00	-18.15	Peak
2	4924.00	32.28	4.77	35.20	48.70	50.55	74.00	23.45	Peak
3	7386.00	36.97	6.12	33.17	33.48	43.40	74.00	30.60	Peak
4	10316.00	39.23	10.20	34.34	29.03	44.12	74.00	29.88	Peak
5	11625.00	39.93	8.25	32.37	28.89	44.70	74.00	29.30	Peak
6	13886.00	41.61	10.11	32.80	29.03	47.95	74.00	26.05	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 79 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 79
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH3 TX 2422MHz
 ANT 1+2

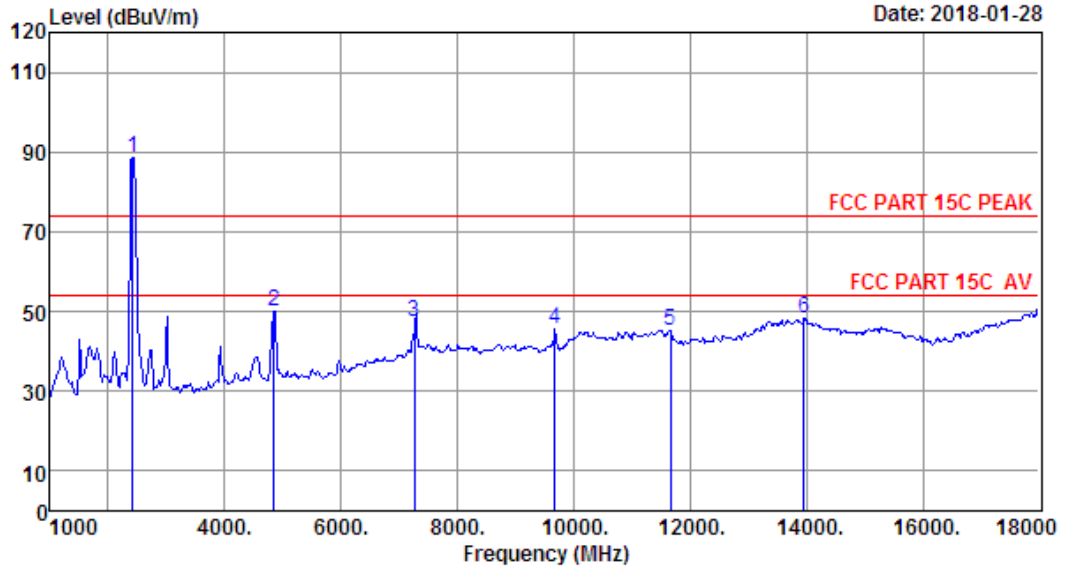
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.43	3.24	35.00	88.76	84.43	74.00	-10.43	Peak
2	4844.00	32.12	4.70	35.10	46.62	48.34	74.00	25.66	Peak
3	7266.00	36.71	6.05	33.36	29.28	38.68	74.00	35.32	Peak
4	10384.00	39.25	10.00	34.26	29.68	44.67	74.00	29.33	Peak
5	11574.00	40.00	8.26	32.42	29.42	45.26	74.00	28.74	Peak
6	14056.00	41.65	10.13	32.95	29.61	48.44	74.00	25.56	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 80 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 80
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH3 TX 2422MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.43	3.24	35.00	92.95	88.62	74.00	-14.62	Peak
2	4844.00	32.12	4.70	35.10	48.30	50.02	74.00	23.98	Peak
3	7266.00	36.71	6.05	33.36	38.04	47.44	74.00	26.56	Peak
4	9670.00	38.90	7.78	35.31	34.14	45.51	74.00	28.49	Peak
5	11659.00	39.88	8.25	32.38	29.49	45.24	74.00	28.76	Peak
6	13954.00	41.66	10.12	32.84	29.29	48.23	74.00	25.77	Peak

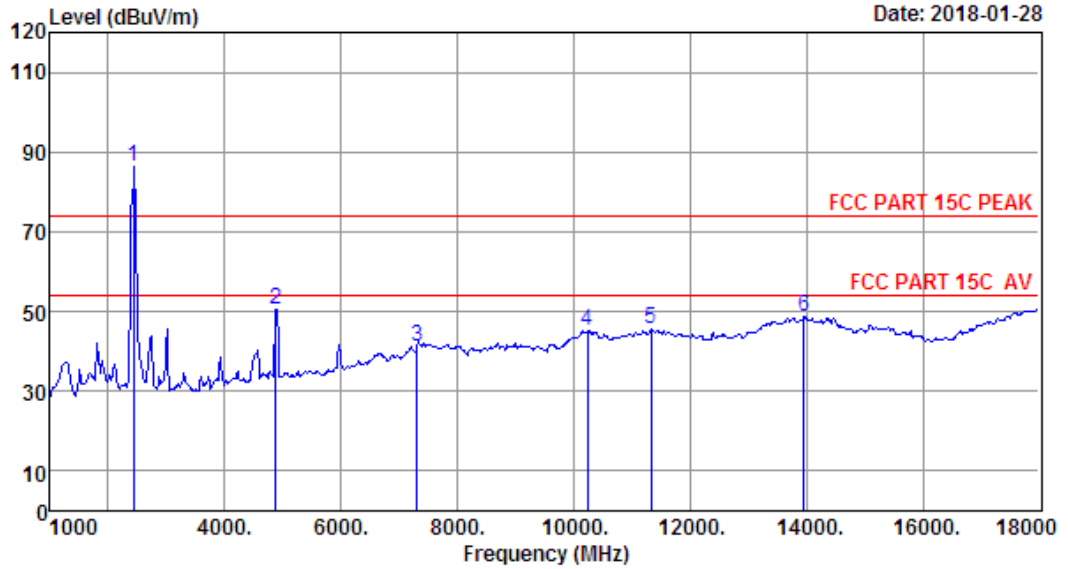
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 81 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 81
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH6 TX 2437MHz
 ANT 1+2

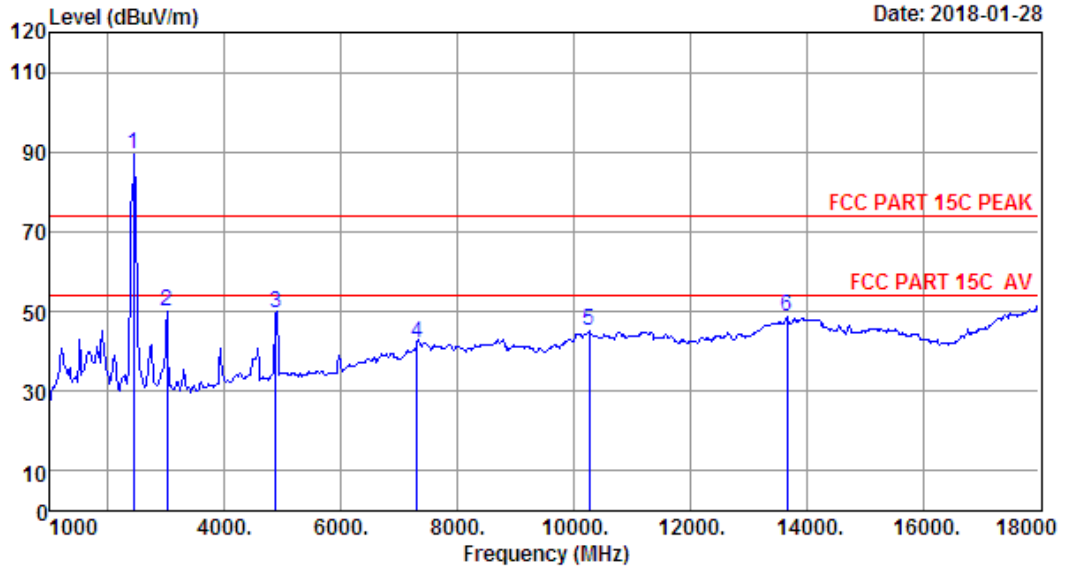
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	90.87	86.54	74.00	-12.54	Peak
2	4874.00	32.18	4.73	35.14	48.74	50.51	74.00	23.49	Peak
3	7311.00	36.78	6.09	33.31	31.83	41.39	74.00	32.61	Peak
4	10231.00	39.19	9.84	34.41	30.63	45.25	74.00	28.75	Peak
5	11336.00	40.03	8.32	32.84	30.29	45.80	74.00	28.20	Peak
6	13954.00	41.66	10.12	32.84	29.98	48.92	74.00	25.08	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 82 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 82
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH6 TX 2437MHz
 ANT 1+2

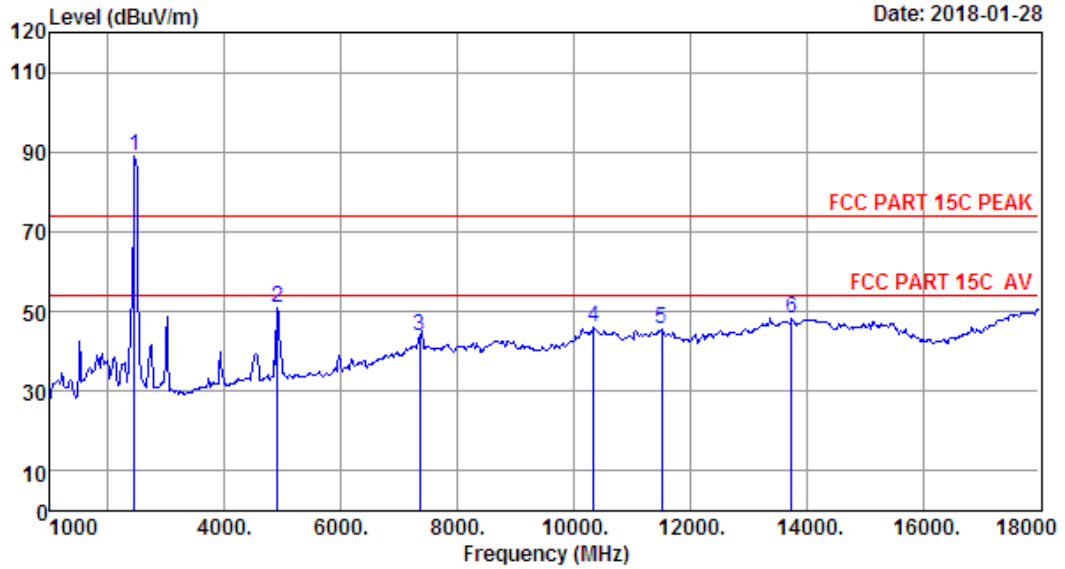
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	93.81	89.48	74.00	-15.48	Peak
2	3006.00	28.40	3.60	37.17	55.32	50.15	74.00	23.85	Peak
3	4874.00	32.18	4.73	35.14	47.76	49.53	74.00	24.47	Peak
4	7311.00	36.78	6.09	33.31	32.66	42.22	74.00	31.78	Peak
5	10265.00	39.21	9.98	34.39	30.23	45.03	74.00	28.97	Peak
6	13665.00	41.43	9.89	32.62	30.05	48.75	74.00	25.25	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 83 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 83
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH9 TX 2452MHz
 ANT 1+2

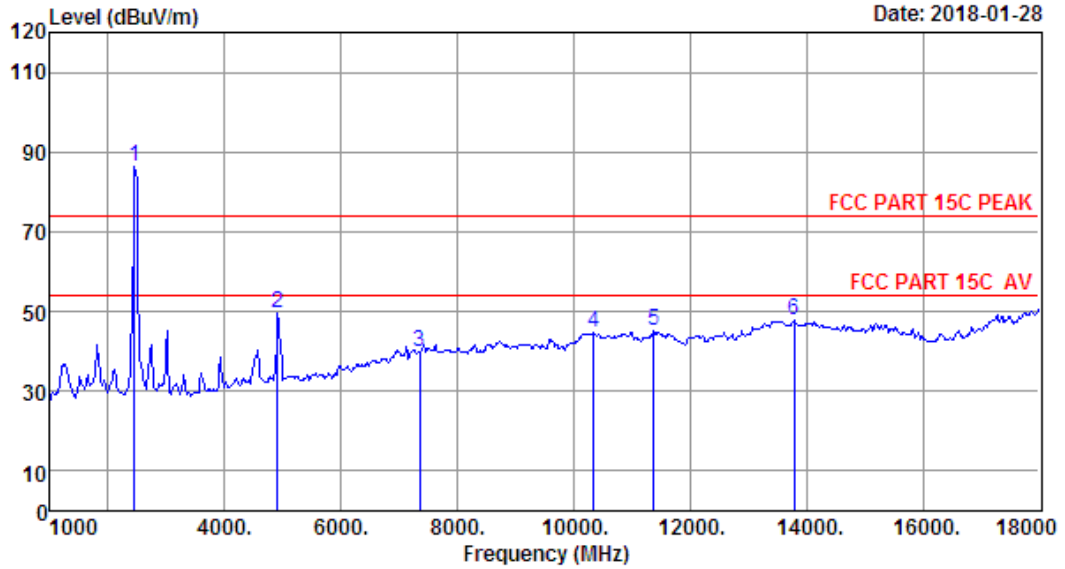
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.48	3.26	35.07	93.35	89.02	74.00	-15.02	Peak
2	4904.00	32.24	4.76	35.18	49.00	50.82	74.00	23.18	Peak
3	7356.00	36.90	6.11	33.22	34.02	43.81	74.00	30.19	Peak
4	10350.00	39.24	10.10	34.30	31.02	46.06	74.00	27.94	Peak
5	11506.00	40.10	8.28	32.55	29.71	45.54	74.00	28.46	Peak
6	13750.00	41.50	10.01	32.69	29.37	48.19	74.00	25.81	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 84 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 84
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH9 TX 2452MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.48	3.26	35.07	90.68	86.35	74.00	-12.35	Peak
2	4904.00	32.24	4.76	35.18	47.78	49.60	74.00	24.40	Peak
3	7356.00	36.90	6.11	33.22	30.23	40.02	74.00	33.98	Peak
4	10350.00	39.24	10.10	34.30	29.74	44.78	74.00	29.22	Peak
5	11370.00	40.05	8.30	32.78	29.59	45.16	74.00	28.84	Peak
6	13784.00	41.53	10.05	32.72	28.75	47.61	74.00	26.39	Peak

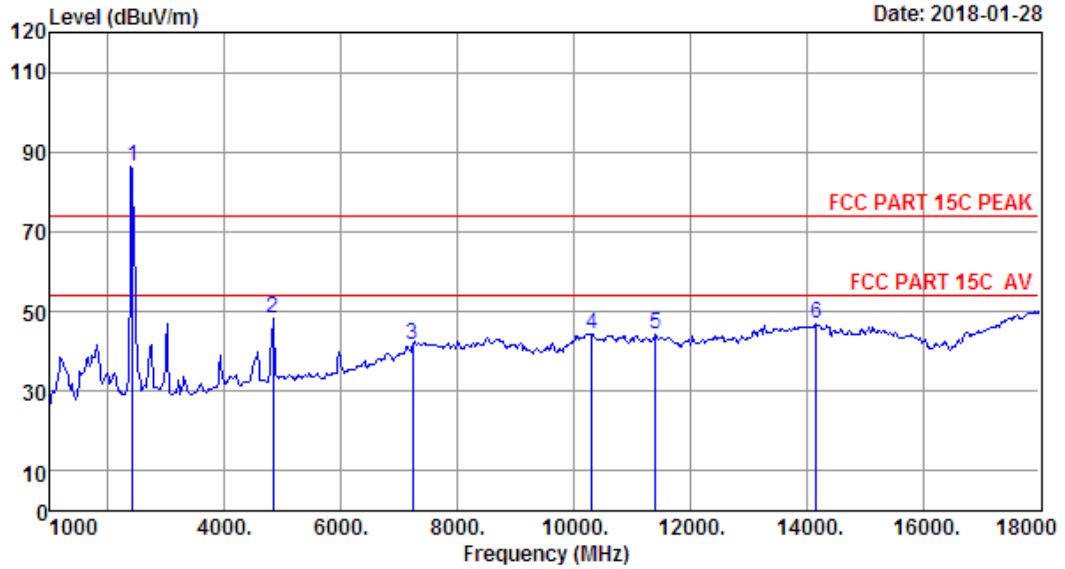
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 85 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 85
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 2

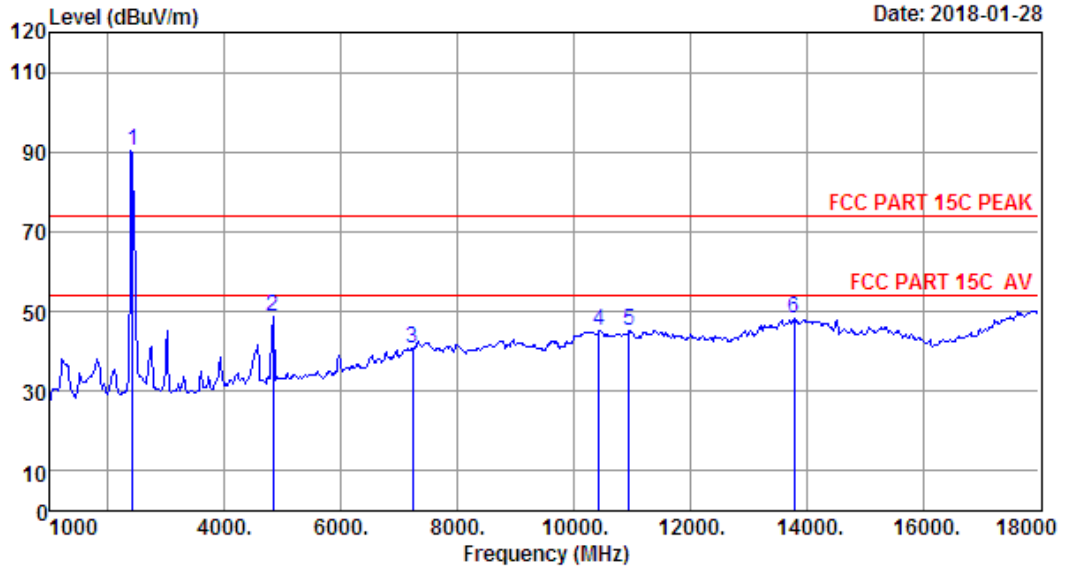
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	90.52	86.20	74.00	-12.20	Peak
2	4824.00	32.09	4.69	35.08	46.56	48.26	74.00	25.74	Peak
3	7236.00	36.63	6.03	33.42	32.51	41.75	74.00	32.25	Peak
4	10316.00	39.23	10.20	34.34	29.14	44.23	74.00	29.77	Peak
5	11404.00	40.06	8.29	32.71	28.58	44.22	74.00	29.78	Peak
6	14175.00	41.53	10.15	33.11	28.21	46.78	74.00	27.22	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 86 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 86
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 2

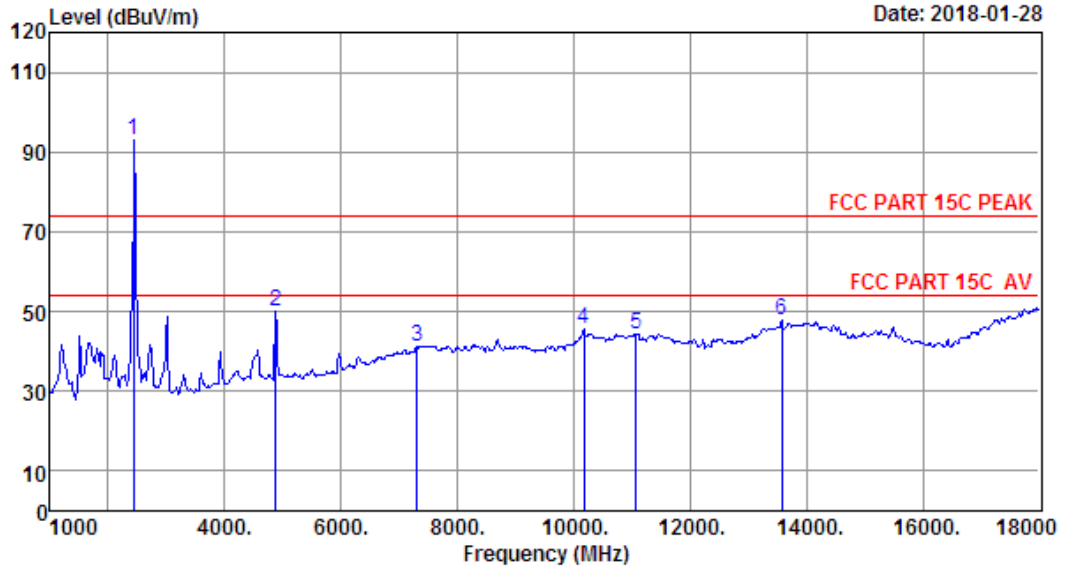
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	94.65	90.33	74.00	-16.33	Peak
2	4824.00	32.09	4.69	35.08	47.09	48.79	74.00	25.21	Peak
3	7236.00	36.63	6.03	33.42	31.53	40.77	74.00	33.23	Peak
4	10435.00	39.27	9.85	34.20	30.15	45.07	74.00	28.93	Peak
5	10945.00	39.84	8.61	33.52	30.35	45.28	74.00	28.72	Peak
6	13784.00	41.53	10.05	32.72	29.36	48.22	74.00	25.78	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 87 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 87
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH6 TX 2437MHz
 ANT 2

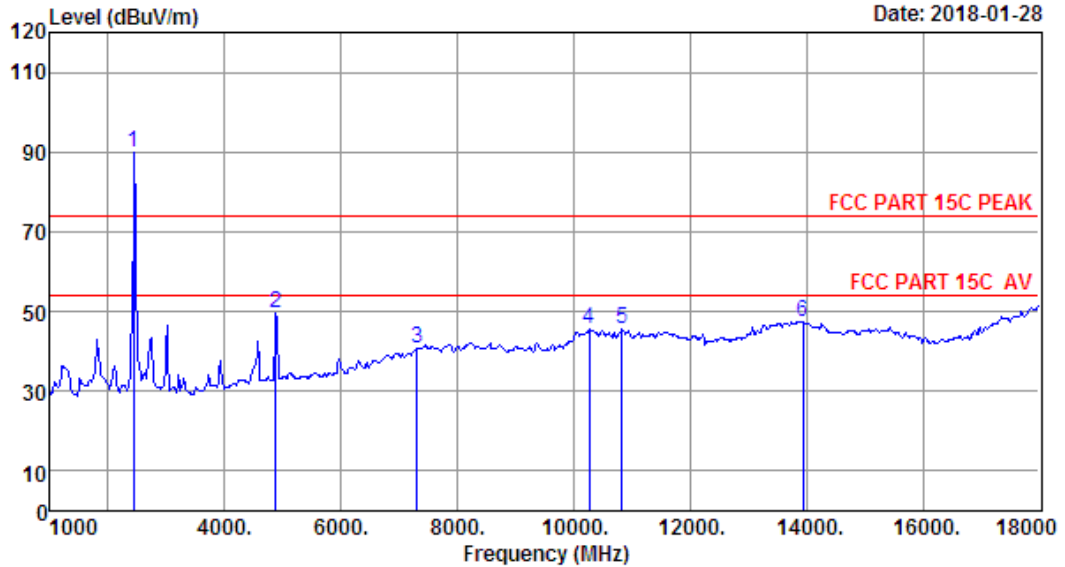
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	97.41	93.08	74.00	-19.08	Peak
2	4874.00	32.18	4.73	35.14	48.30	50.07	74.00	23.93	Peak
3	7311.00	36.78	6.09	33.31	31.58	41.14	74.00	32.86	Peak
4	10180.00	39.17	9.62	34.47	31.20	45.52	74.00	28.48	Peak
5	11064.00	39.93	8.52	33.32	29.27	44.40	74.00	29.60	Peak
6	13580.00	41.37	9.78	32.57	29.04	47.62	74.00	26.38	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 88 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 88
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH6 TX 2437MHz
 ANT 2

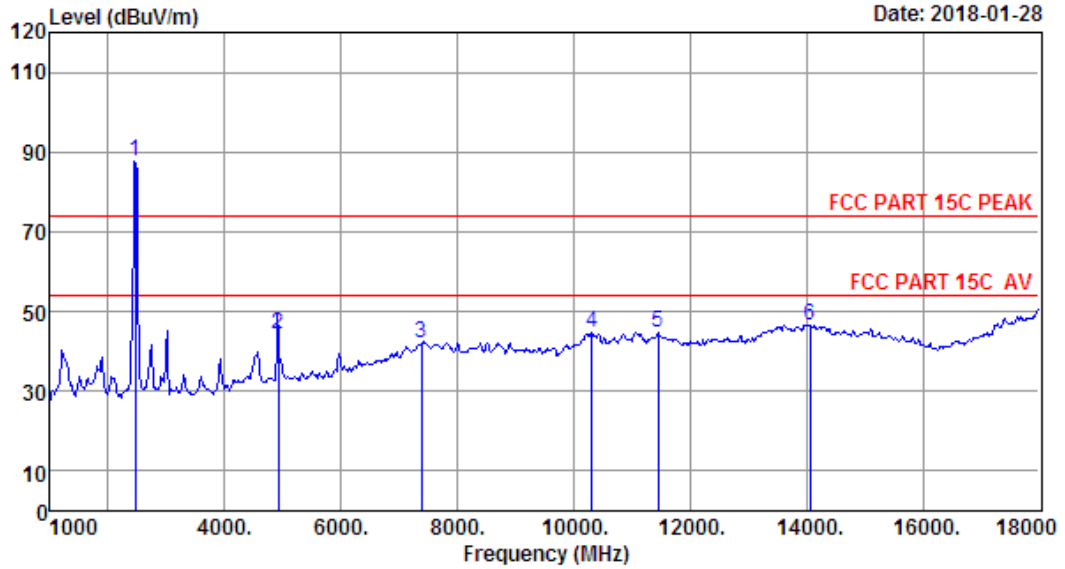
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	94.42	90.09	74.00	-16.09	Peak
2	4874.00	32.18	4.73	35.14	47.87	49.64	74.00	24.36	Peak
3	7311.00	36.78	6.09	33.31	31.05	40.61	74.00	33.39	Peak
4	10265.00	39.21	9.98	34.39	30.62	45.42	74.00	28.58	Peak
5	10826.00	39.69	8.70	33.67	30.92	45.64	74.00	28.36	Peak
6	13937.00	41.65	10.12	32.83	28.50	47.44	74.00	26.56	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 89 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 89
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 2

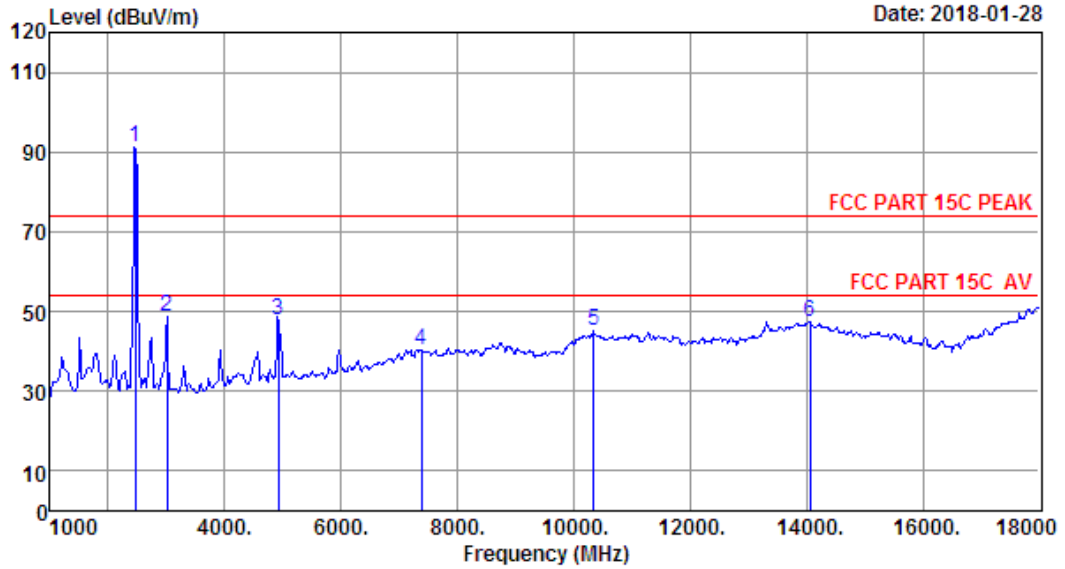
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	91.81	87.46	74.00	-13.46	Peak
2	4924.00	32.28	4.77	35.20	42.49	44.34	74.00	29.66	Peak
3	7386.00	36.97	6.12	33.17	32.15	42.07	74.00	31.93	Peak
4	10316.00	39.23	10.20	34.34	29.60	44.69	74.00	29.31	Peak
5	11455.00	40.08	8.28	32.62	29.00	44.74	74.00	29.26	Peak
6	14056.00	41.65	10.13	32.95	27.70	46.53	74.00	27.47	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 90 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 90
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	95.52	91.17	74.00	-17.17	Peak
2	3006.00	28.40	3.60	37.17	53.74	48.57	74.00	25.43	Peak
3	4924.00	32.28	4.77	35.20	45.80	47.65	74.00	26.35	Peak
4	7386.00	36.97	6.12	33.17	30.27	40.19	74.00	33.81	Peak
5	10350.00	39.24	10.10	34.30	29.98	45.02	74.00	28.98	Peak
6	14056.00	41.65	10.13	32.95	28.61	47.44	74.00	26.56	Peak

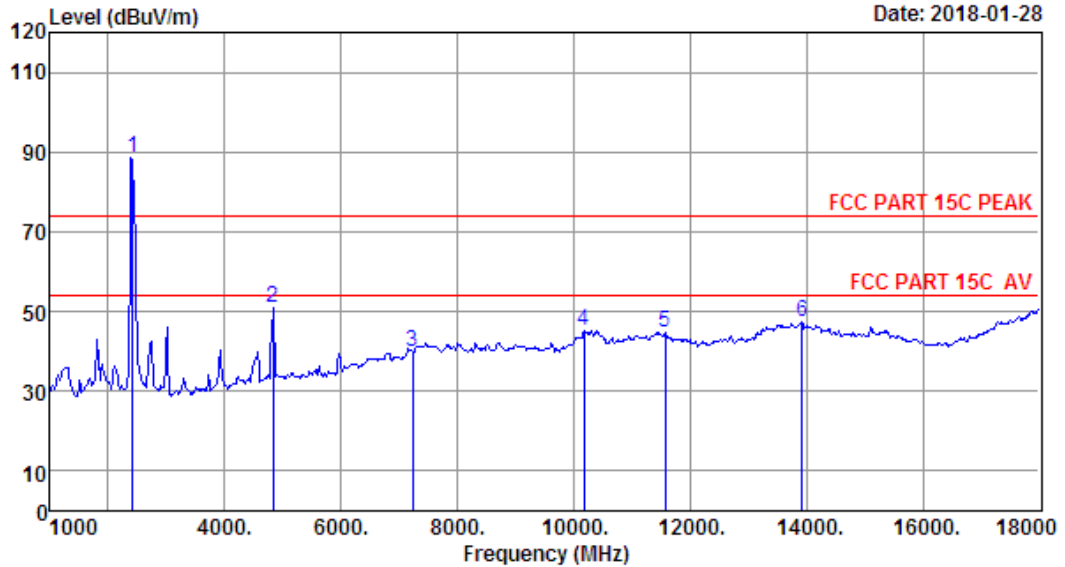
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 91 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 91
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 2

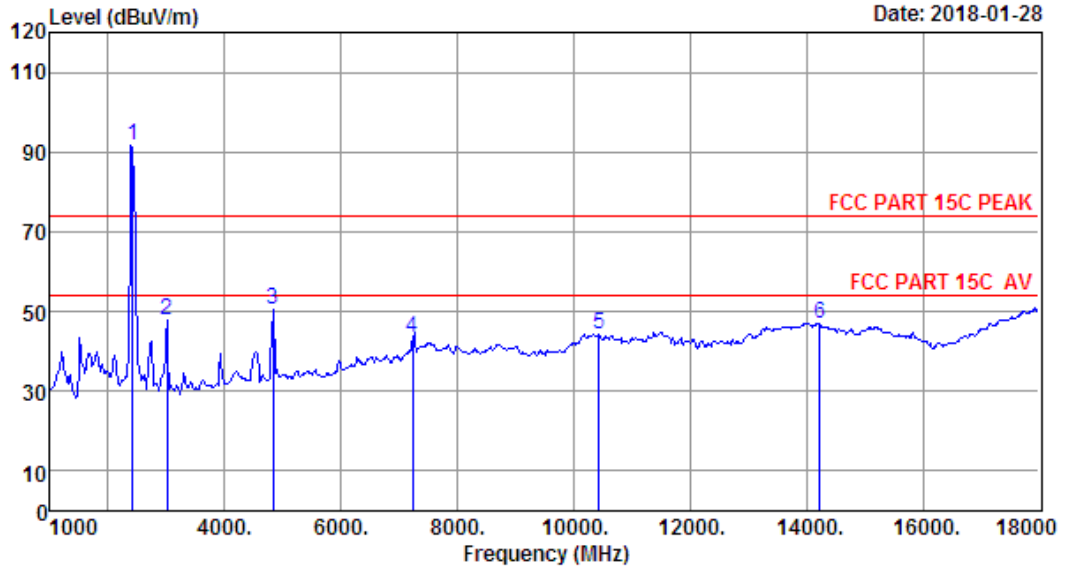
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	92.93	88.61	74.00	-14.61	Peak
2	4824.00	32.09	4.69	35.08	49.38	51.08	74.00	22.92	Peak
3	7236.00	36.63	6.03	33.42	30.71	39.95	74.00	34.05	Peak
4	10180.00	39.17	9.62	34.47	30.93	45.25	74.00	28.75	Peak
5	11574.00	40.00	8.26	32.42	28.91	44.75	74.00	29.25	Peak
6	13920.00	41.63	10.11	32.83	28.44	47.35	74.00	26.65	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 92 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)

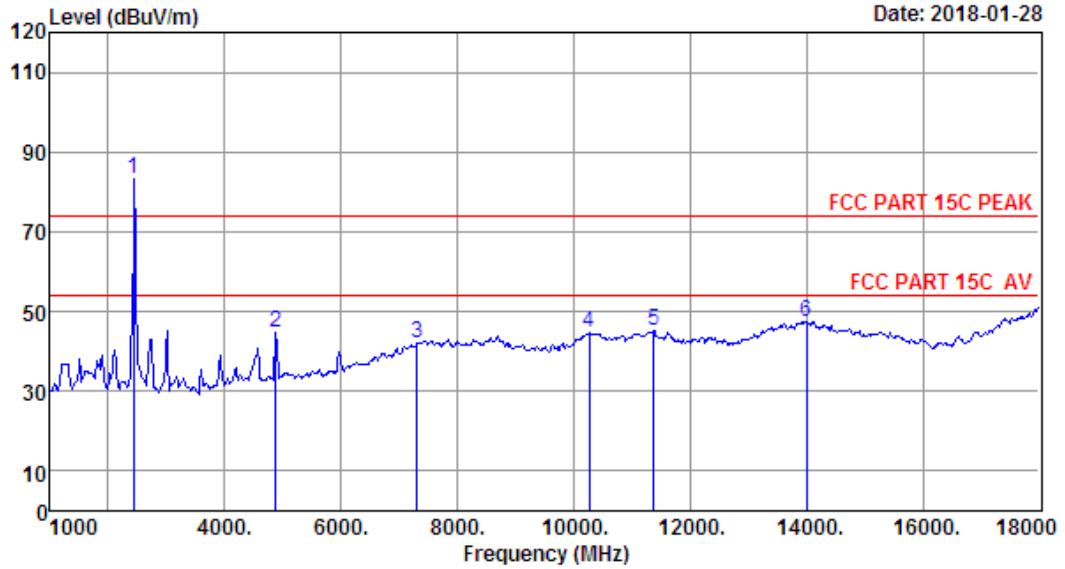


Site no. : 1# 966 Chamber Data no. : 92
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	95.82	91.50	74.00	-17.50	Peak
2	3006.00	28.40	3.60	37.17	53.05	47.88	74.00	26.12	Peak
3	4824.00	32.09	4.69	35.08	48.89	50.59	74.00	23.41	Peak
4	7236.00	36.63	6.03	33.42	34.06	43.30	74.00	30.70	Peak
5	10435.00	39.27	9.85	34.20	29.51	44.43	74.00	29.57	Peak
6	14226.00	41.48	10.16	33.18	28.40	46.86	74.00	27.14	Peak

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

Data: 93 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 93
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH6 TX 2437MHz
 ANT 2

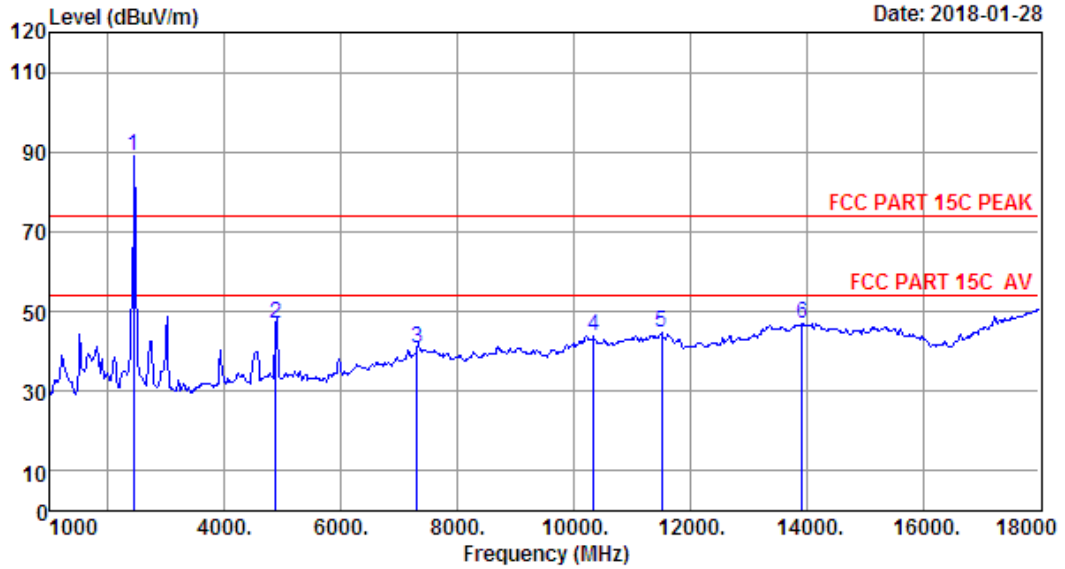
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	87.43	83.10	74.00	-9.10	Peak
2	4874.00	32.18	4.73	35.14	42.77	44.54	74.00	29.46	Peak
3	7311.00	36.78	6.09	33.31	32.37	41.93	74.00	32.07	Peak
4	10265.00	39.21	9.98	34.39	29.82	44.62	74.00	29.38	Peak
5	11370.00	40.05	8.30	32.78	29.55	45.12	74.00	28.88	Peak
6	14005.00	41.70	10.13	32.88	28.45	47.40	74.00	26.60	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 94 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 94
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH6 TX 2437MHz
 ANT 2

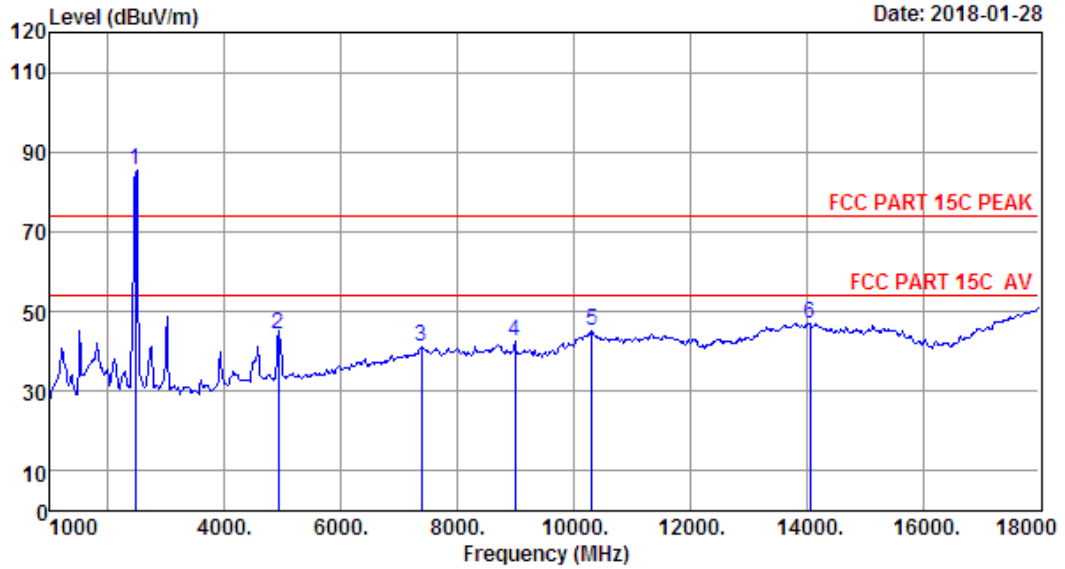
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	93.38	89.05	74.00	-15.05	Peak
2	4874.00	32.18	4.73	35.14	45.18	46.95	74.00	27.05	Peak
3	7311.00	36.78	6.09	33.31	31.17	40.73	74.00	33.27	Peak
4	10350.00	39.24	10.10	34.30	28.83	43.87	74.00	30.13	Peak
5	11506.00	40.10	8.28	32.55	28.88	44.71	74.00	29.29	Peak
6	13920.00	41.63	10.11	32.83	28.08	46.99	74.00	27.01	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 95 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 95
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 2

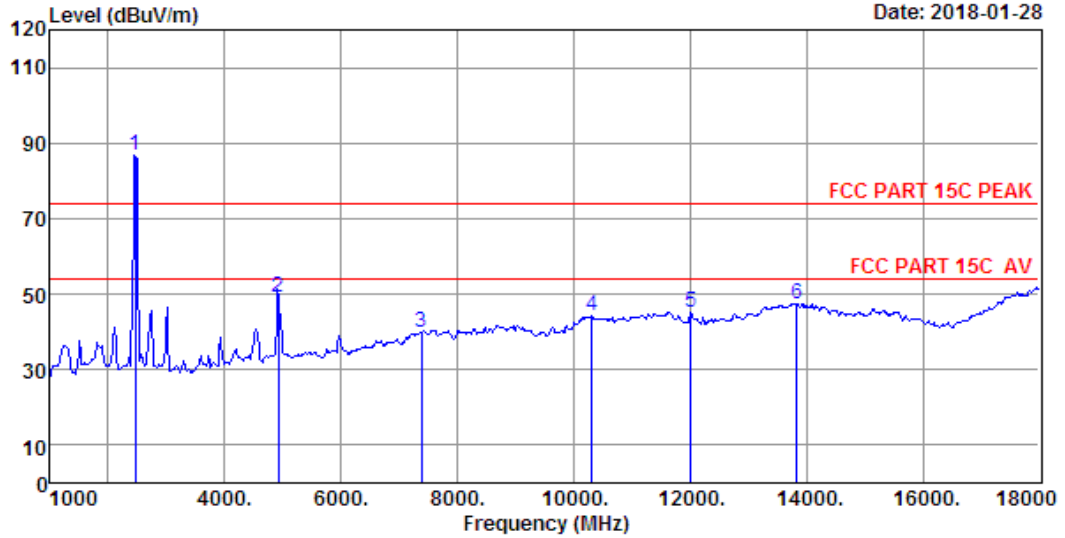
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	89.99	85.64	74.00	-11.64	Peak
2	4924.00	32.28	4.77	35.20	42.45	44.30	74.00	29.70	Peak
3	7386.00	36.97	6.12	33.17	31.18	41.10	74.00	32.90	Peak
4	8990.00	37.88	6.94	33.62	31.28	42.48	74.00	31.52	Peak
5	10316.00	39.23	10.20	34.34	30.00	45.09	74.00	28.91	Peak
6	14056.00	41.65	10.13	32.95	28.21	47.04	74.00	26.96	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 96 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 96
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	90.97	86.62	74.00	-12.62	Peak
2	4924.00	32.28	4.77	35.20	47.30	49.15	74.00	24.85	Peak
3	7386.00	36.97	6.12	33.17	30.02	39.94	74.00	34.06	Peak
4	10316.00	39.23	10.20	34.34	28.98	44.07	74.00	29.93	Peak
5	12016.00	39.40	8.26	32.53	30.24	45.37	74.00	28.63	Peak
6	13835.00	41.57	10.10	32.76	28.64	47.55	74.00	26.45	Peak

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

18000MHz – 25000MHz

Pass

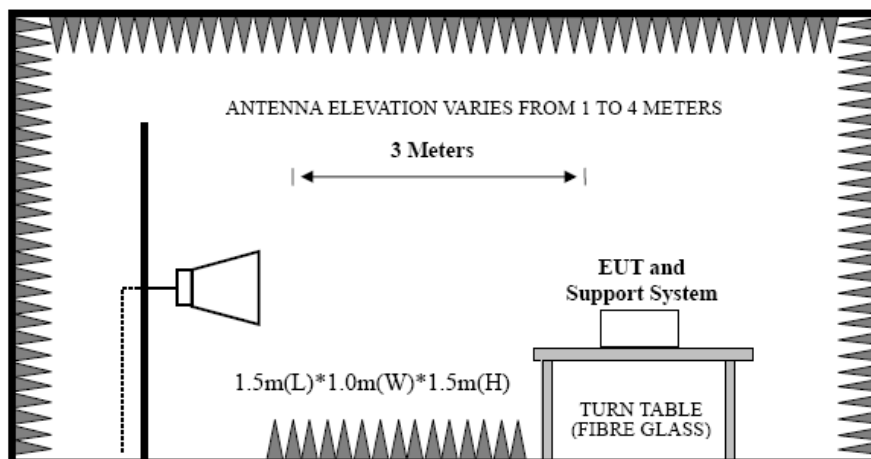
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

5 BAND EDGE COMPLIANCE TEST

5.1 Limit

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

5.2 Block Diagram of Test setup



5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

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

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

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

5.4 Test Result

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

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

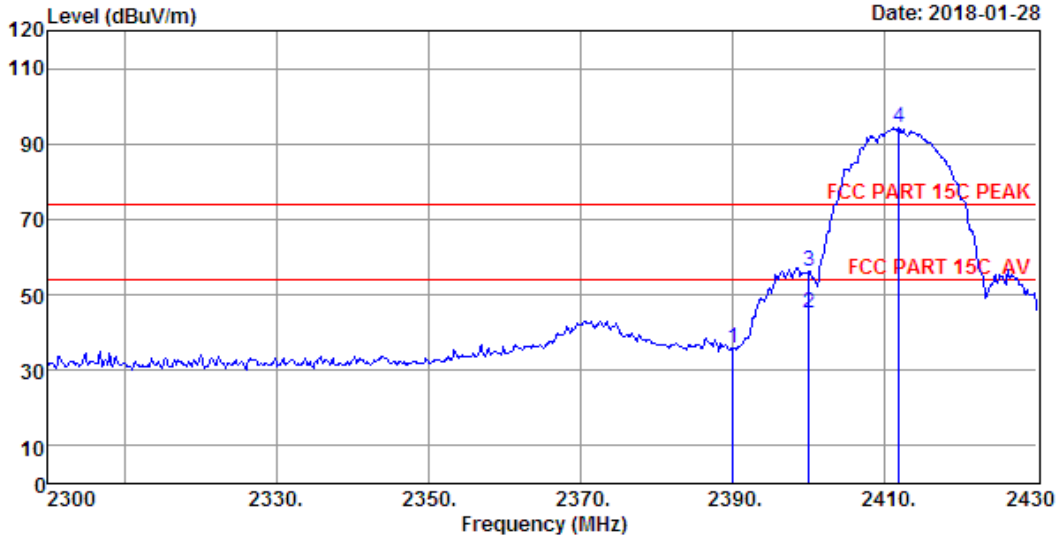
2、 The frequency 2412 MHz 、 2422MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

5.5 Test Data

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 99 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 99
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	0.00	5.49	36.05	74.00	37.95	Peak
2	2400.00	27.35	3.21	0.00	14.66	45.22	54.00	8.78	Average
3	2400.00	27.35	3.21	0.00	25.66	56.22	74.00	17.78	Peak
4	2411.80	27.39	3.23	0.00	63.86	94.48	74.00	-20.48	Peak

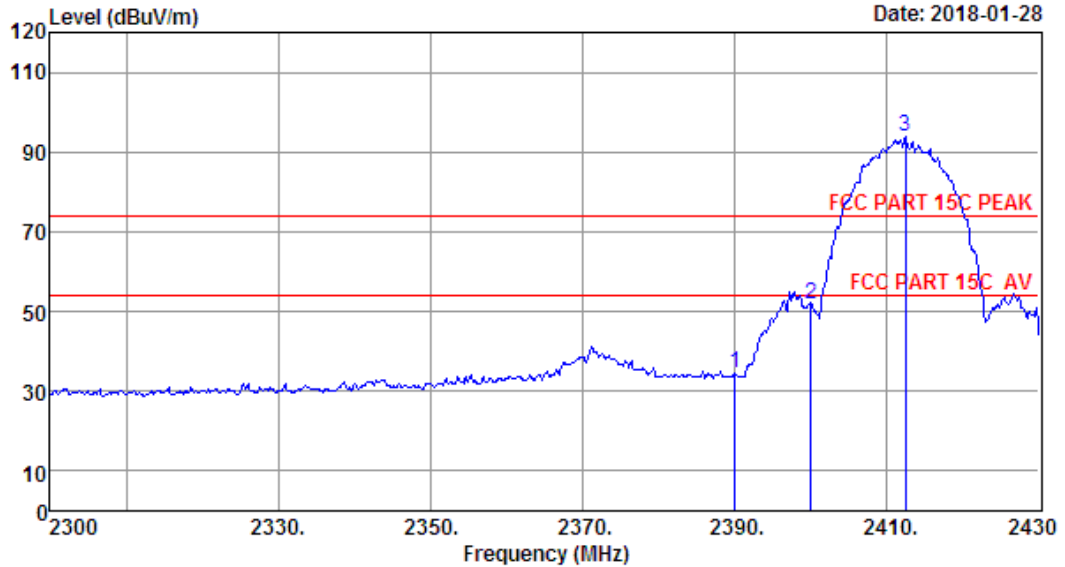
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 100 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 100
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 1

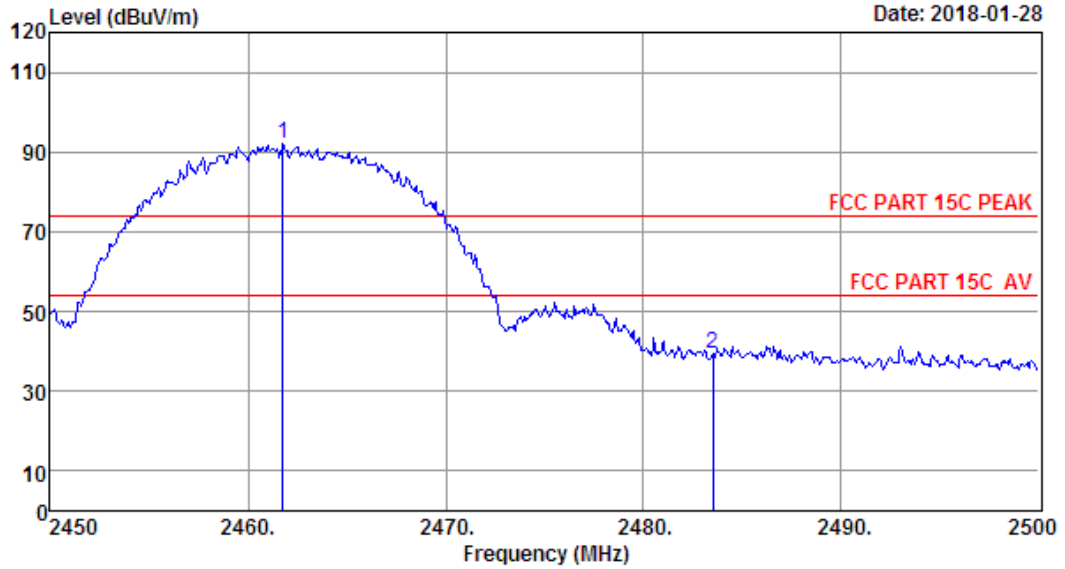
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	0.00	4.14	34.70	74.00	39.30	Peak
2	2400.00	27.35	3.21	0.00	21.43	51.99	74.00	22.01	Peak
3	2412.45	27.39	3.23	0.00	63.30	93.92	74.00	-19.92	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 101 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 101
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 1

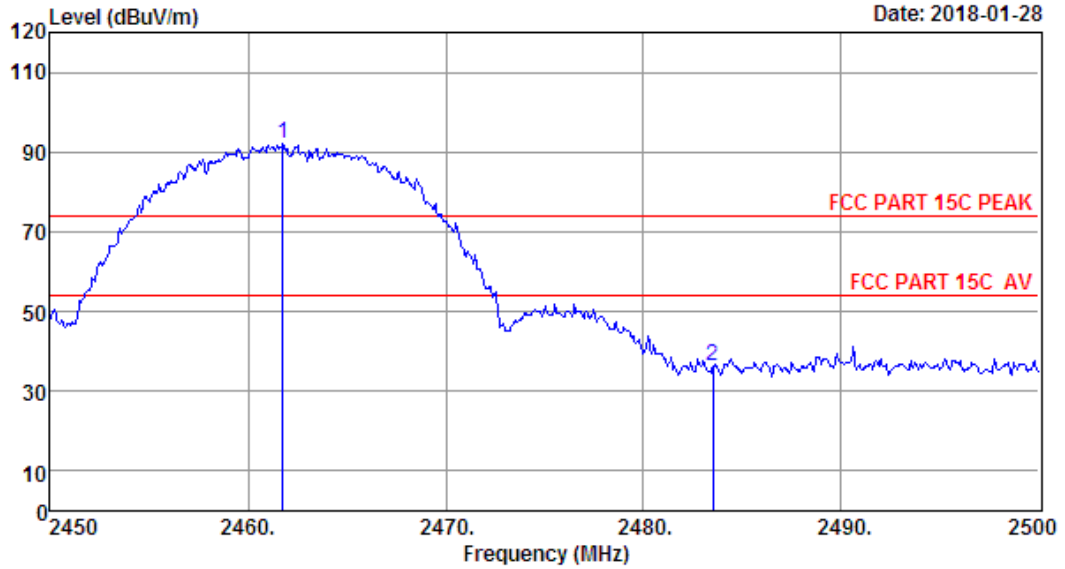
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2461.75	27.52	3.27	0.00	61.27	92.06	74.00	-18.06	Peak
2	2483.50	27.56	3.29	0.00	8.71	39.56	74.00	34.44	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 102 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 102
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 1

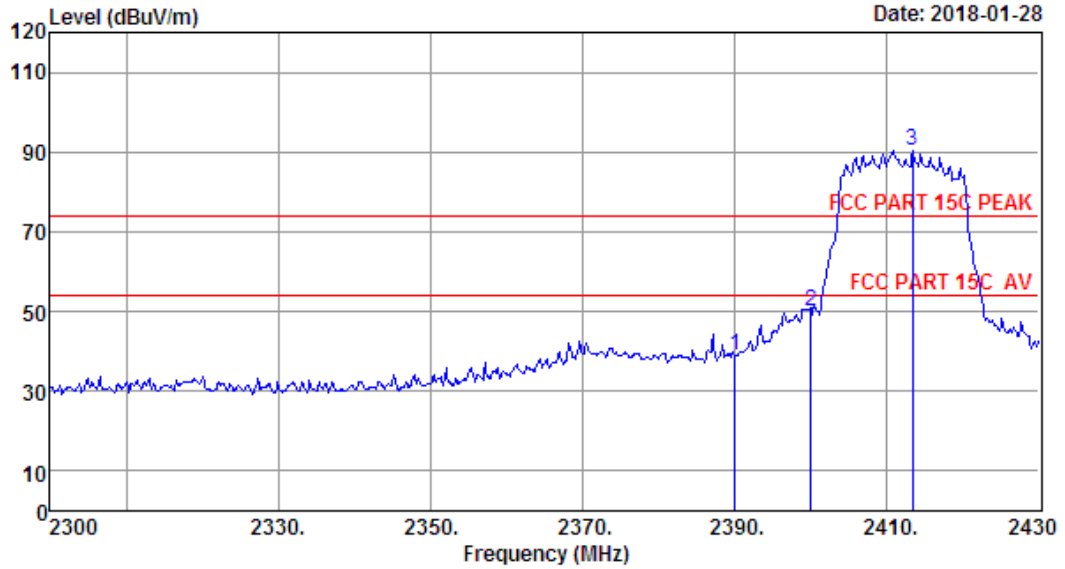
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2461.75	27.52	3.27	0.00	61.31	92.10	74.00	-18.10	Peak
2	2483.50	27.56	3.29	0.00	5.54	36.39	74.00	37.61	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 103 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 103
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 1

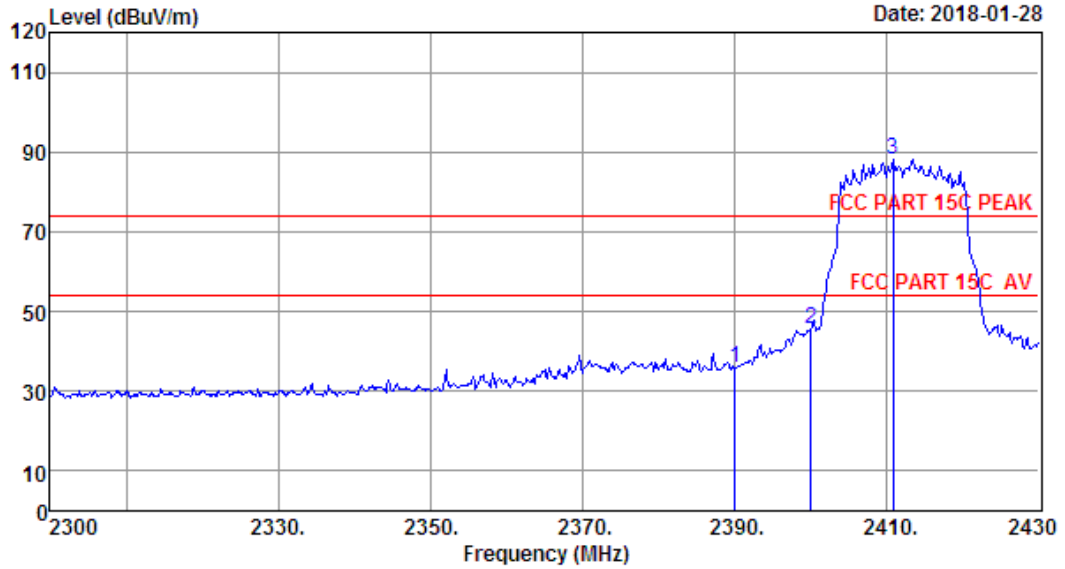
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	43.36	39.05	74.00	34.95	Peak
2	2400.00	27.35	3.21	34.94	54.40	50.02	74.00	23.98	Peak
3	2413.36	27.39	3.23	34.94	94.62	90.30	74.00	-16.30	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 104 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 104
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 1

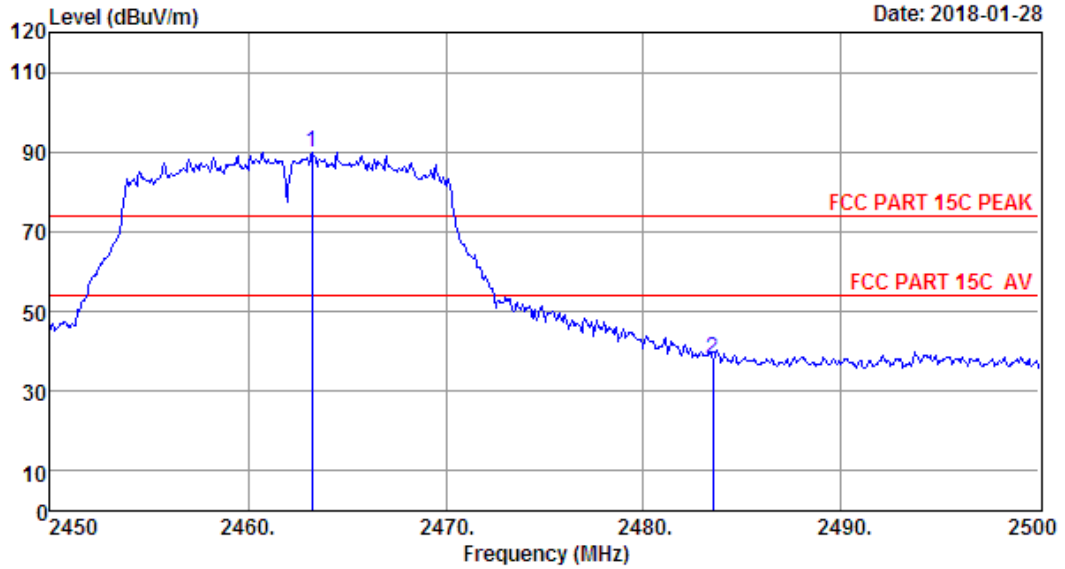
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	40.11	35.80	74.00	38.20	Peak
2	2400.00	27.35	3.21	34.94	50.18	45.80	74.00	28.20	Peak
3	2410.76	27.39	3.23	34.94	92.57	88.25	74.00	-14.25	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 105 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 105
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 1

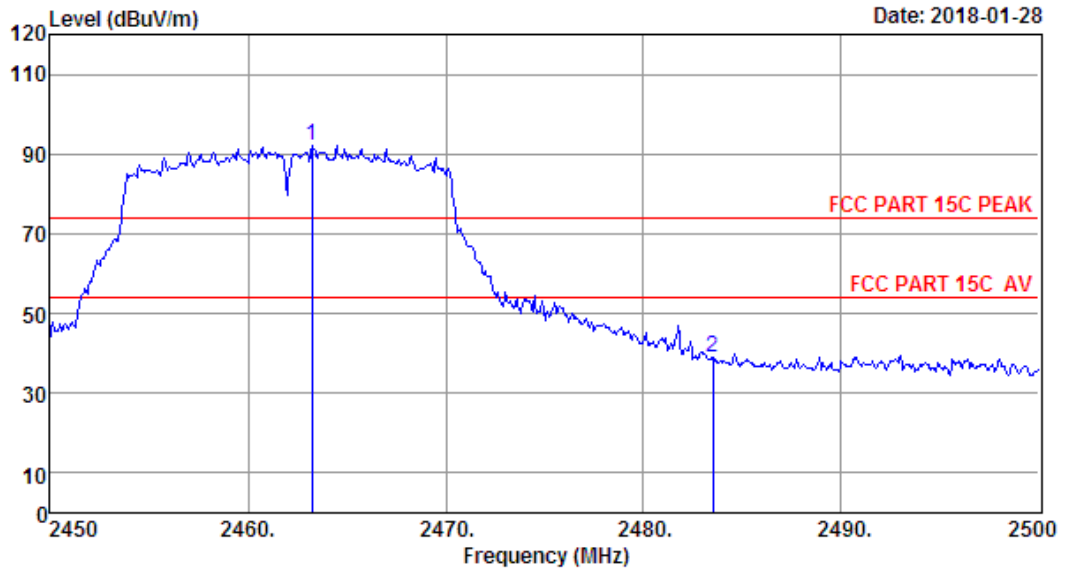
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.25	27.52	3.27	35.14	94.38	90.03	74.00	-16.03	Peak
2	2483.50	27.56	3.29	35.21	42.43	38.07	74.00	35.93	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 106 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 106
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 2

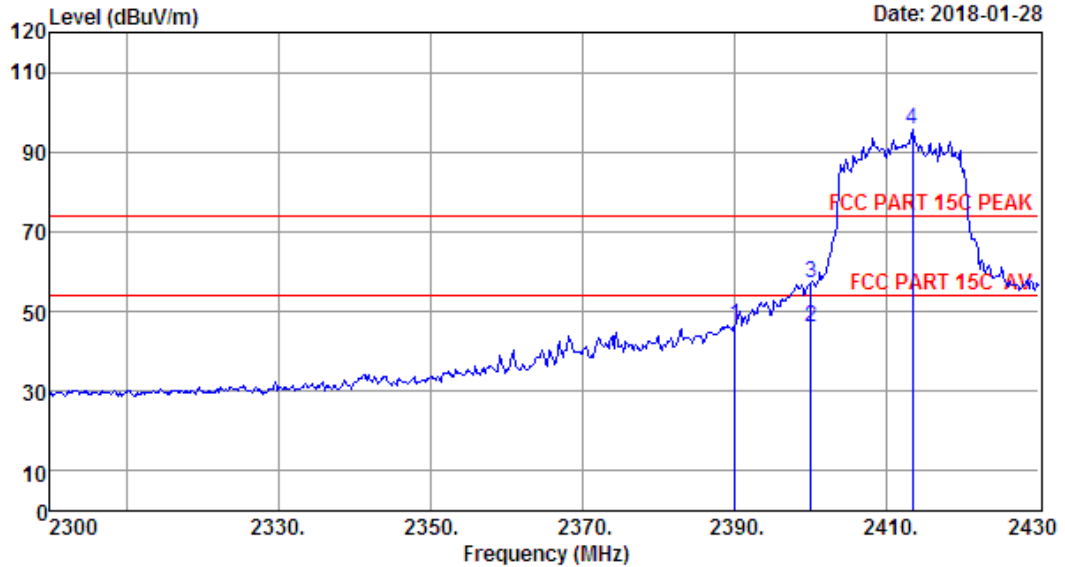
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.25	27.52	3.27	35.14	96.44	92.09	74.00	-18.09	Peak
2	2483.50	27.56	3.29	35.21	43.48	39.12	74.00	34.88	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 107 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)

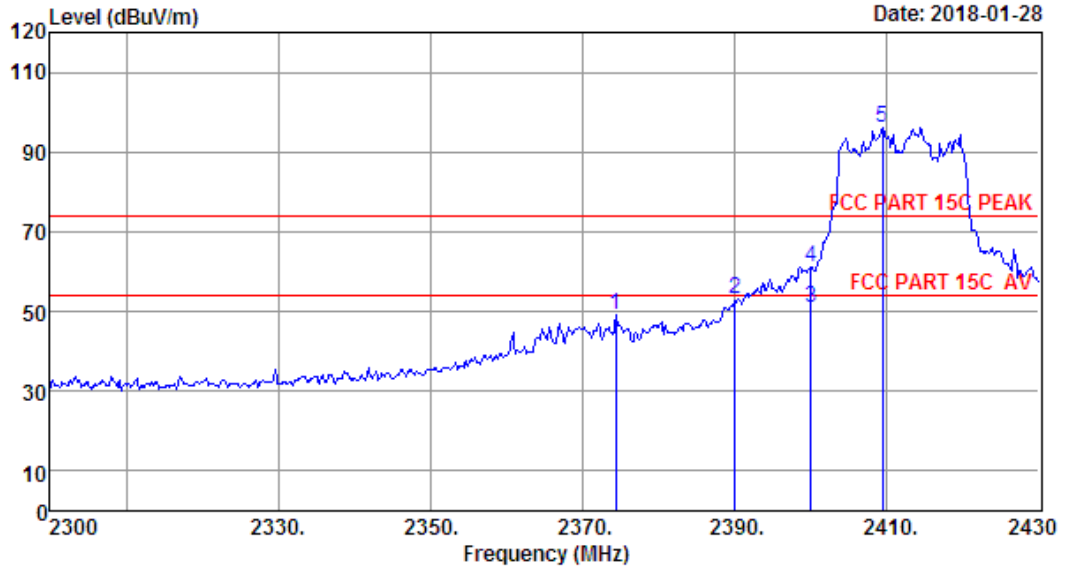


Site no. : 1# 966 Chamber Data no. : 107
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH1 TX 2412MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	50.59	46.28	74.00	27.72	Peak
2	2400.00	27.35	3.21	34.94	50.55	46.17	54.00	7.83	Average
3	2400.00	27.35	3.21	34.94	61.55	57.17	74.00	16.83	Peak
4	2413.36	27.39	3.23	34.94	99.87	95.55	74.00	-21.55	Peak

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

Data: 108 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 108
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH1 TX 2412MHz
 ANT 1+2

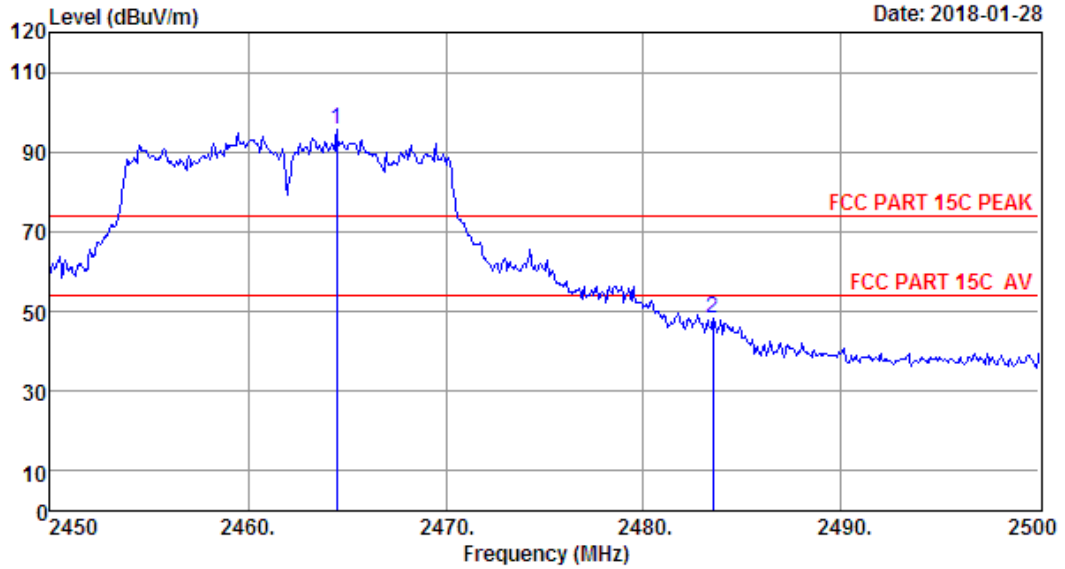
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2374.36	27.31	3.20	34.80	53.61	49.32	74.00	24.68	Peak
2	2390.00	27.35	3.21	34.87	57.45	53.14	74.00	20.86	Peak
3	2400.00	27.35	3.21	34.94	55.32	50.94	54.00	3.06	Average
4	2400.00	27.35	3.21	34.94	65.32	60.94	74.00	13.06	Peak
5	2409.46	27.39	3.23	34.94	100.60	96.28	74.00	-22.28	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 109 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 109
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH11 TX 2462MHz
 ANT 1+2

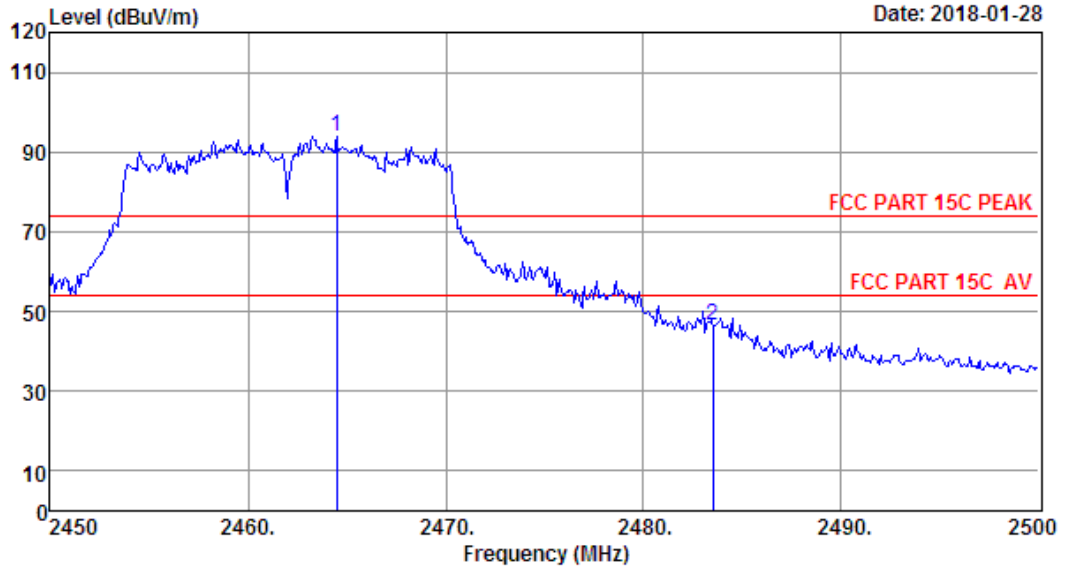
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.50	27.52	3.27	35.14	100.13	95.78	74.00	-21.78	Peak
2	2483.50	27.56	3.29	35.21	52.84	48.48	74.00	25.52	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 110 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 110
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT20 CH11 TX 2462MHz
 ANT 1+2

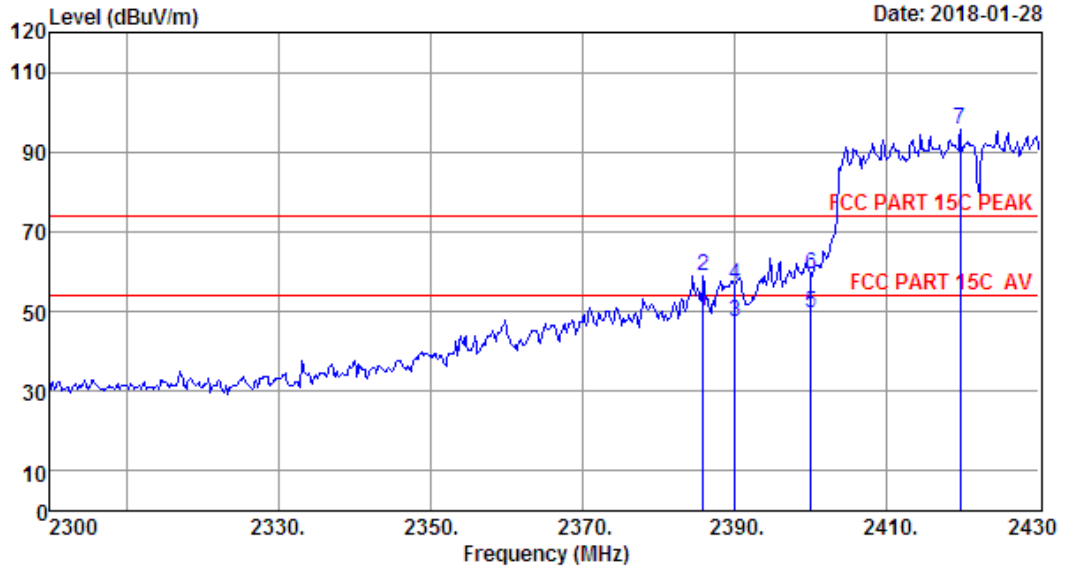
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.50	27.52	3.27	35.14	98.42	94.07	74.00	-20.07	Peak
2	2483.50	27.56	3.29	35.21	50.68	46.32	74.00	27.68	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 111 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 111
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH3 TX 2422MHz
 ANT 1+2

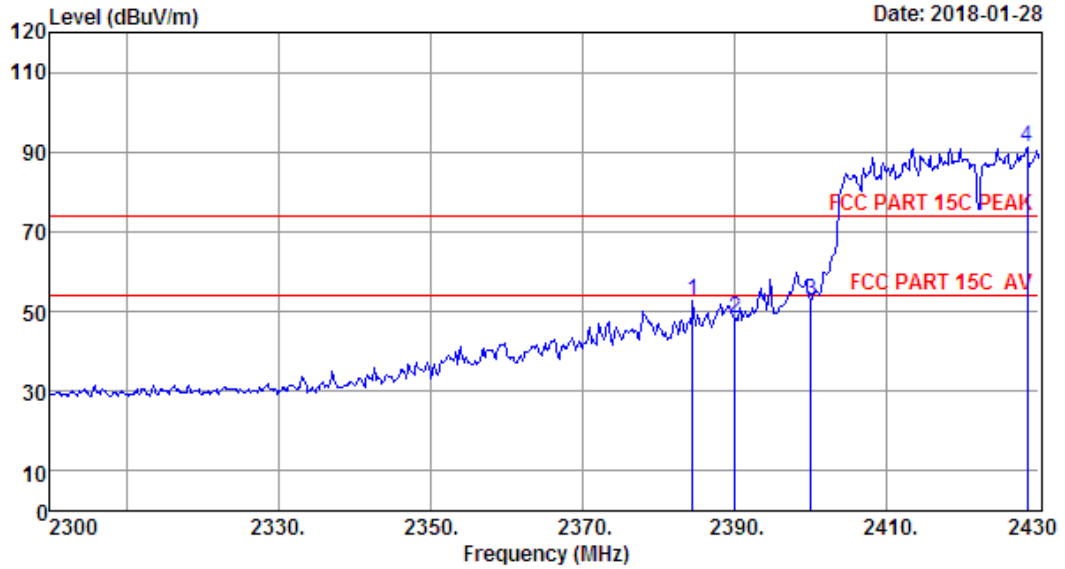
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.80	27.35	3.21	34.87	54.29	49.98	54.00	4.02	Average
2	2385.80	27.35	3.21	34.87	63.29	58.98	74.00	15.02	Peak
3	2390.00	27.35	3.21	34.87	51.80	47.49	54.00	6.51	Average
4	2390.00	27.35	3.21	34.87	60.80	56.49	74.00	17.51	Peak
5	2400.00	27.35	3.21	34.94	53.94	49.56	54.00	4.44	Average
6	2400.00	27.35	3.21	34.94	63.94	59.56	74.00	14.44	Peak
7	2419.60	27.43	3.24	35.00	99.97	95.64	74.00	-21.64	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 112 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 112
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH3 TX 2422MHz
 ANT 1+2

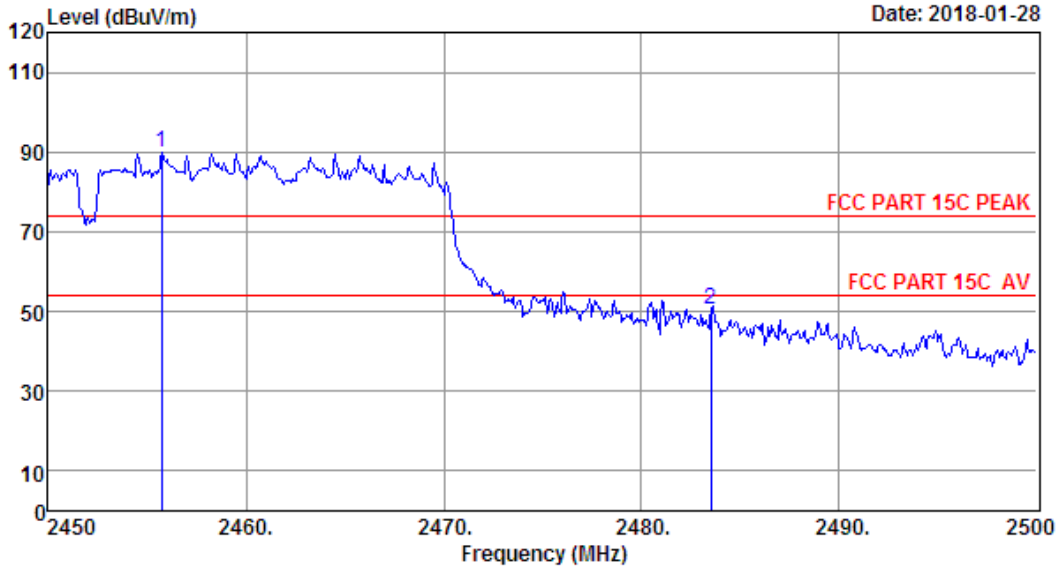
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.50	27.31	3.20	34.87	56.97	52.61	74.00	21.39	Peak
2	2390.00	27.35	3.21	34.87	52.56	48.25	74.00	25.75	Peak
3	2400.00	27.35	3.21	34.94	57.10	52.72	74.00	21.28	Peak
4	2428.44	27.43	3.24	35.00	95.57	91.24	74.00	-17.24	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 113 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 113
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH9 TX 2452MHz
 ANT 1+2

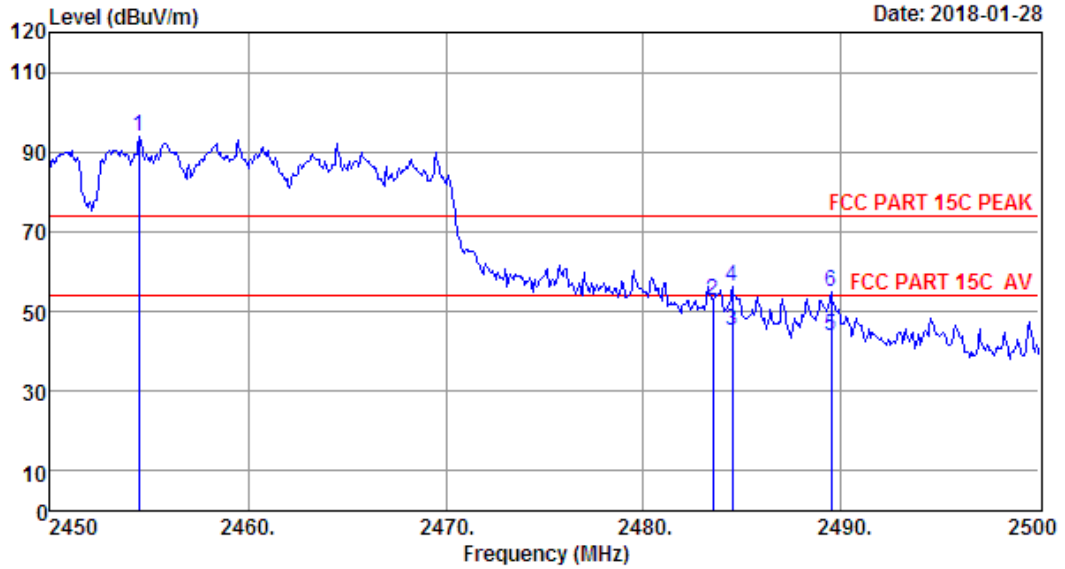
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2455.75	27.52	3.27	35.14	94.08	89.73	74.00	-15.73	Peak
2	2483.50	27.56	3.29	35.21	54.94	50.58	74.00	23.42	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 114 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)

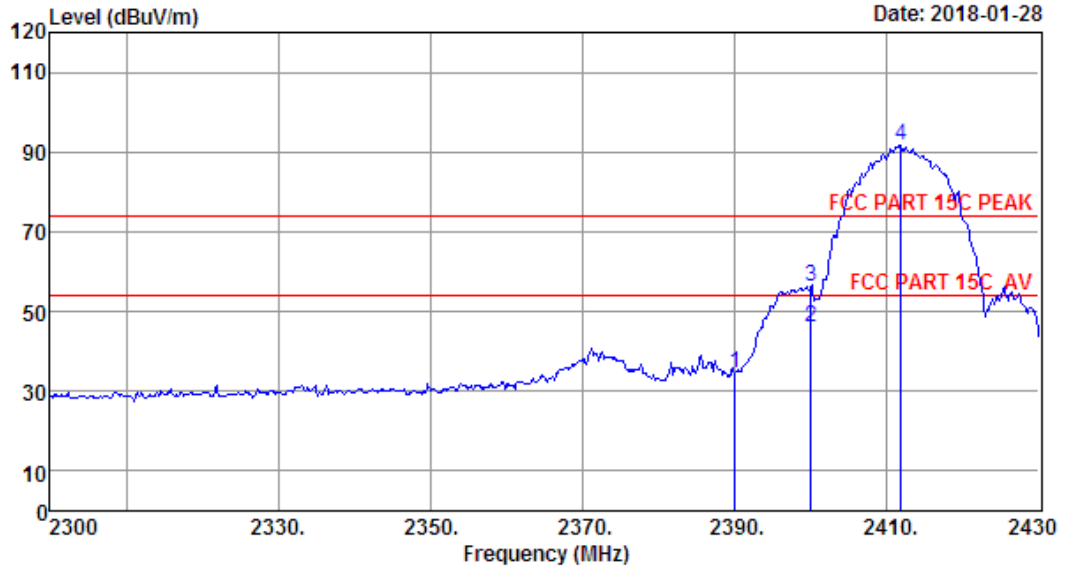


Site no. : 1# 966 Chamber Data no. : 114
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11n HT40 CH9 TX 2452MHz
 ANT 1+2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.50	27.52	3.27	35.14	98.17	93.82	74.00	-19.82	Peak
2	2483.50	27.56	3.29	35.21	56.84	52.48	74.00	21.52	Peak
3	2484.50	27.56	3.29	35.21	49.44	45.08	54.00	8.92	Average
4	2484.50	27.56	3.29	35.21	60.44	56.08	74.00	17.92	Peak
5	2489.50	27.60	3.30	35.27	48.35	43.98	54.00	10.02	Average
6	2489.50	27.60	3.30	35.27	59.35	54.98	74.00	19.02	Peak

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

Data: 115 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)

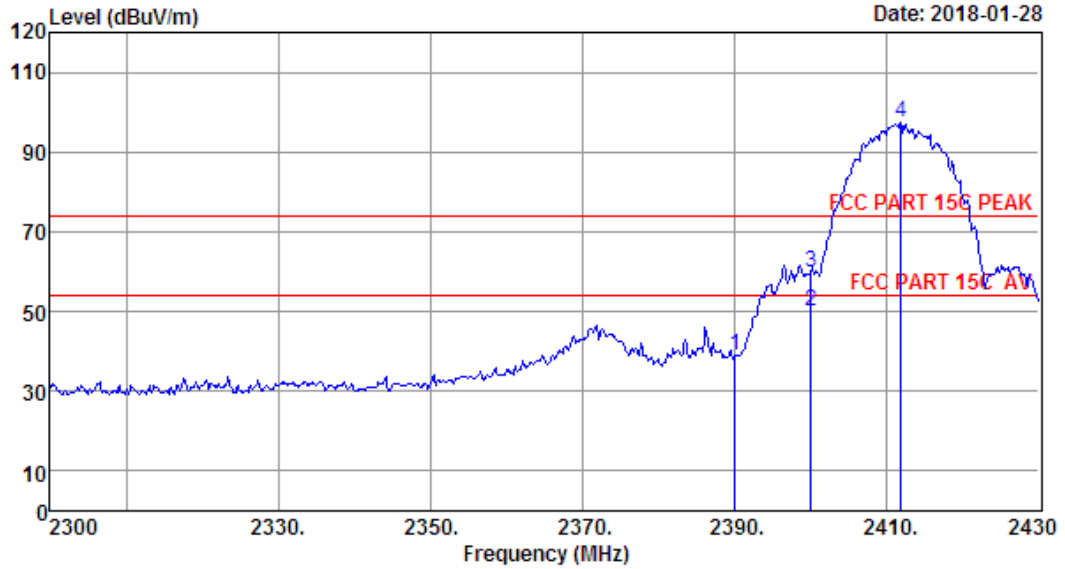


Site no. : 1# 966 Chamber Data no. : 115
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	38.80	34.49	74.00	39.51	Peak
2	2400.00	27.35	3.21	34.94	50.41	46.03	54.00	7.97	Average
3	2400.00	27.35	3.21	34.94	60.41	56.03	74.00	17.97	Peak
4	2411.80	27.39	3.23	34.94	96.12	91.80	74.00	-17.80	Peak

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

Data: 116 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 116
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH1 TX 2412MHz
 ANT 2

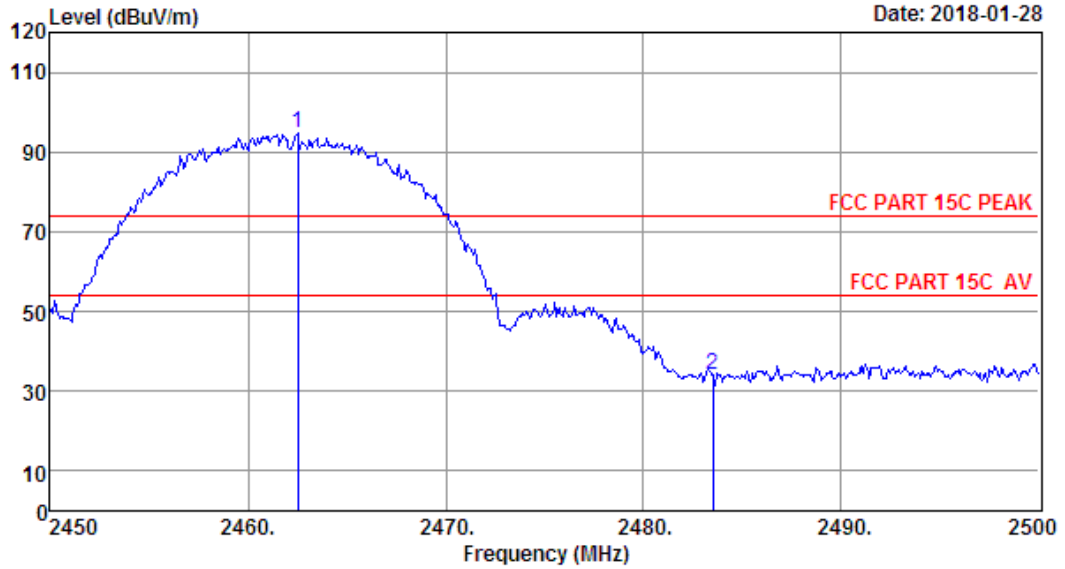
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	43.13	38.82	74.00	35.18	Peak
2	2400.00	27.35	3.21	34.94	54.34	49.96	54.00	4.04	Average
3	2400.00	27.35	3.21	34.94	64.34	59.96	74.00	14.04	Peak
4	2411.80	27.39	3.23	34.94	101.58	97.26	74.00	-23.26	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 117 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 117
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 2

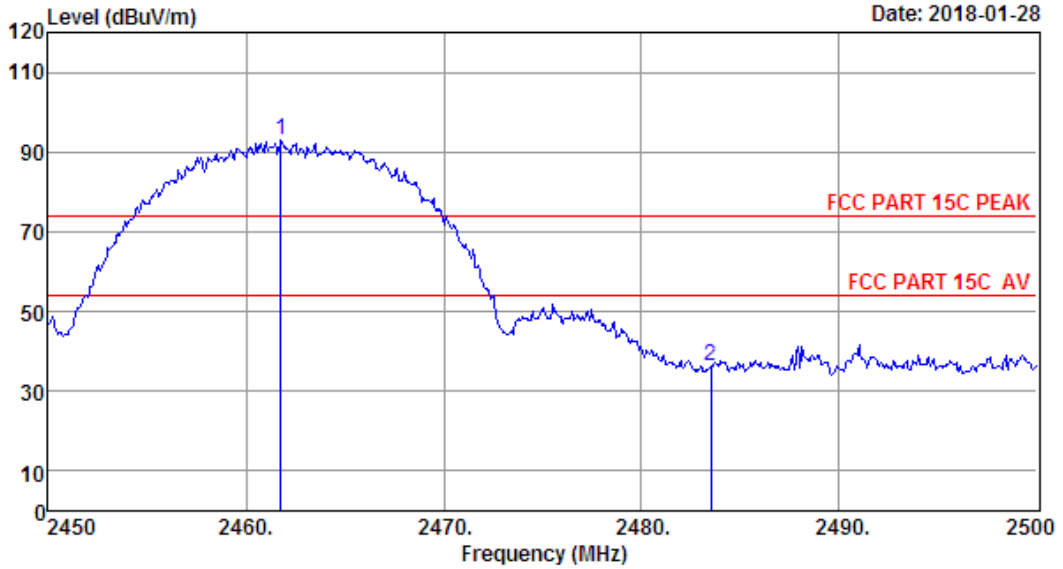
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.50	27.52	3.27	35.14	98.92	94.57	74.00	-20.57	Peak
2	2483.50	27.56	3.29	35.21	38.24	33.88	74.00	40.12	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 118 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 118
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11b CH11 TX 2462MHz
 ANT 2

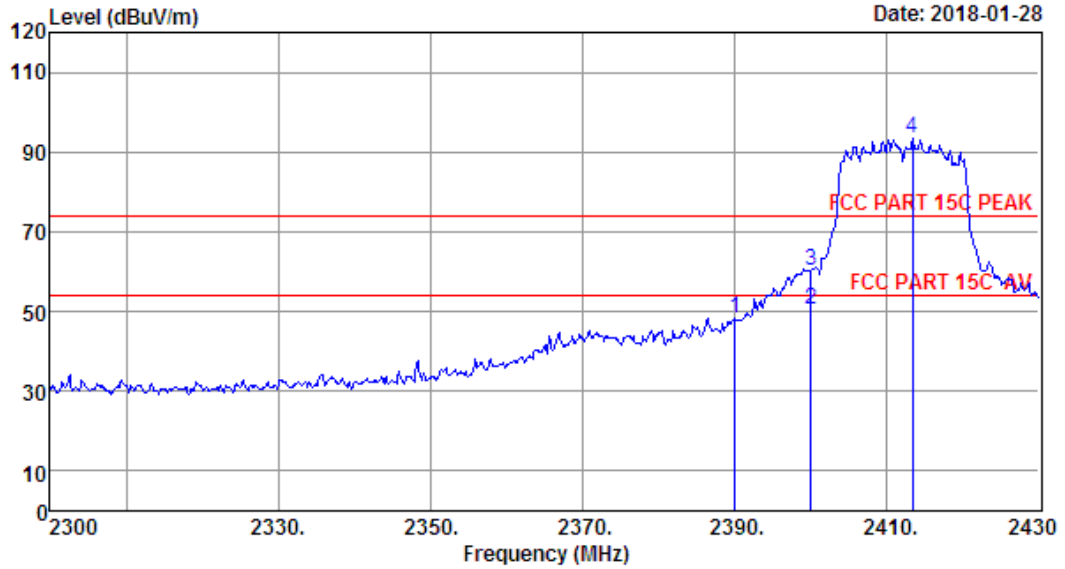
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.75	27.52	3.27	35.14	97.33	92.98	74.00	-18.98	Peak
2	2483.50	27.56	3.29	35.21	40.60	36.24	74.00	37.76	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 119 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 119
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 2

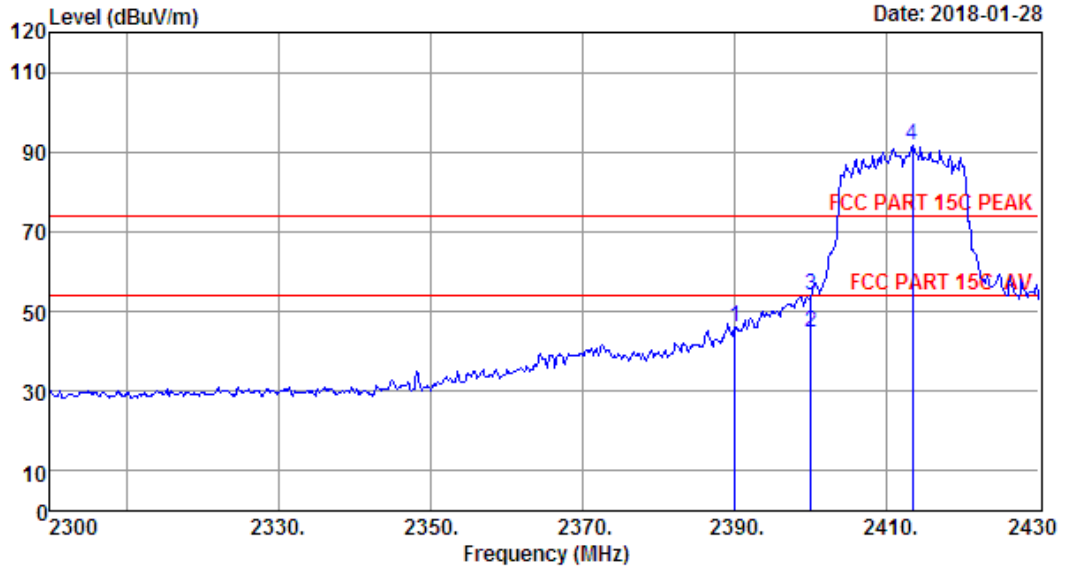
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	52.48	48.17	74.00	25.83	Peak
2	2400.00	27.35	3.21	34.94	54.67	50.29	54.00	3.71	Average
3	2400.00	27.35	3.21	34.94	64.67	60.29	74.00	13.71	Peak
4	2413.36	27.39	3.23	34.94	97.74	93.42	74.00	-19.42	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 120 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 120
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH1 TX 2412MHz
 ANT 2

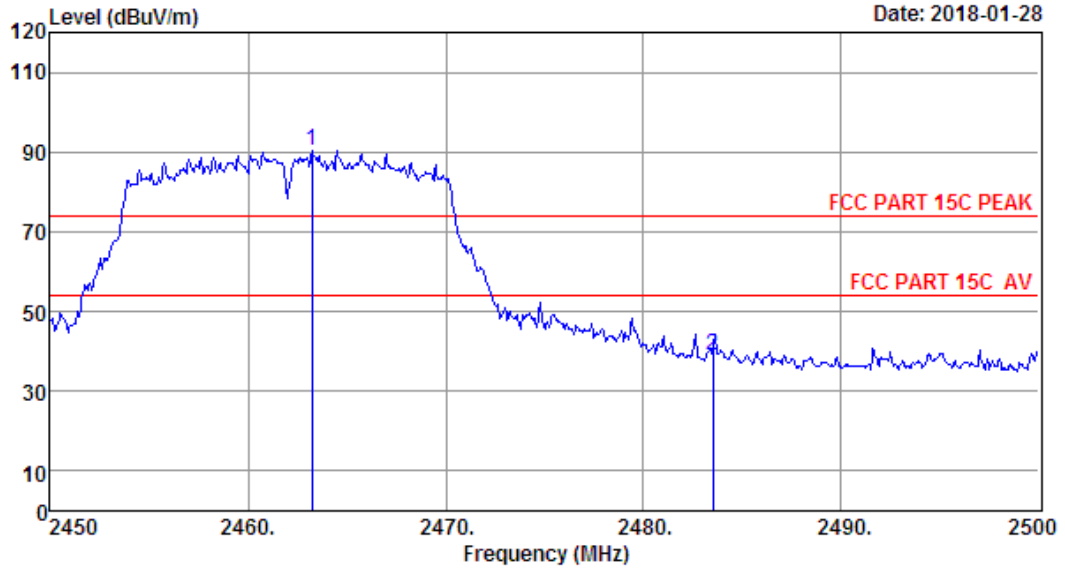
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	50.36	46.05	74.00	27.95	Peak
2	2400.00	27.35	3.21	34.94	49.24	44.86	54.00	9.14	Average
3	2400.00	27.35	3.21	34.94	58.24	53.86	74.00	20.14	Peak
4	2413.36	27.39	3.23	34.94	96.01	91.69	74.00	-17.69	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 121 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122)



Site no. : 1# 966 Chamber Data no. : 121
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 2

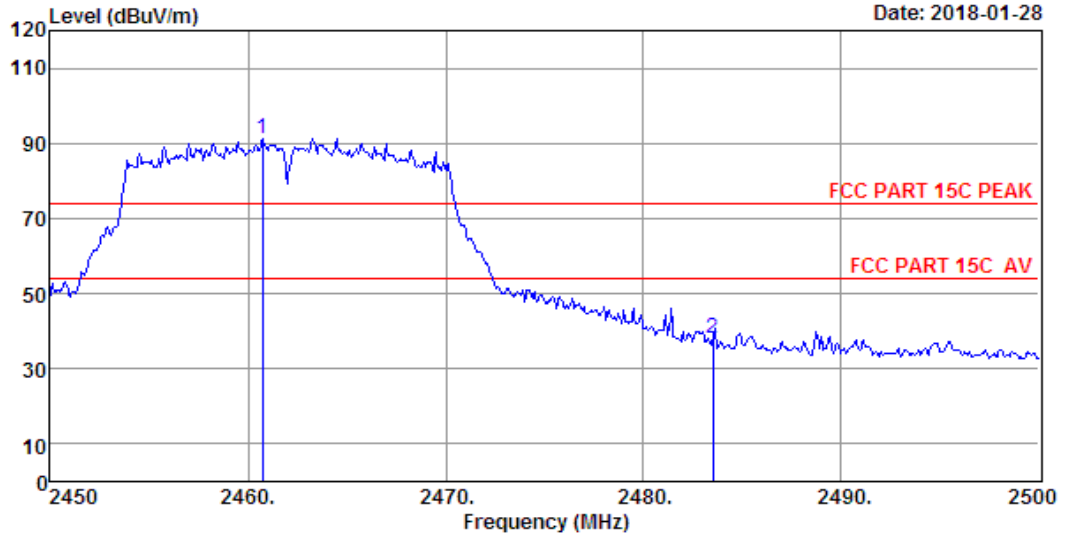
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.25	27.52	3.27	35.14	94.60	90.25	74.00	-16.25	Peak
2	2483.50	27.56	3.29	35.21	43.32	38.96	74.00	35.04	Peak

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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 122 File: \\Emc-966-1\test data\2018\RF\z\Chunghsin Technology Group\E4SFT5517.EM6 (122) Date: 2018-01-28



Site no. : 1# 966 Chamber Data no. : 122
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:23.5';Humi:51%;Press:101.52kPa
 Engineer : Seven
 EUT : 55 inch DLED SMART TV
 Power : AC 120V/60Hz
 M/N : E4SFT5517
 Test Mode : IEEE 802.11g CH11 TX 2462MHz
 ANT 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.75	27.52	3.27	35.14	95.71	91.36	74.00	-17.36	Peak
2	2483.50	27.56	3.29	35.21	42.30	37.94	74.00	36.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. 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 for 6dB

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

6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
 - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
 - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
 - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
 - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
 - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
 - (6). Set detection mode to peak and trace mode to max hold.
 - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - (8). Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
 - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
 - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “_xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value,

then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “_xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

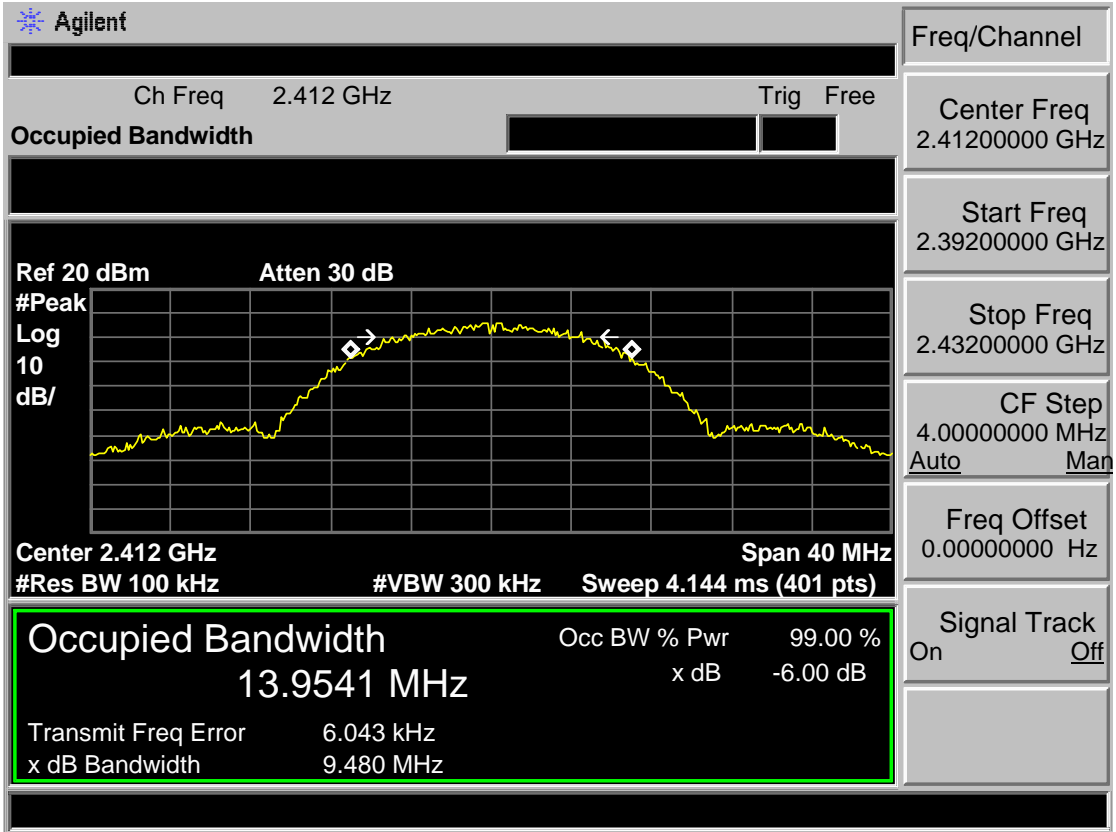
6.4 Test Result

EUT: 55 inch DLED SMART TV					
M/N: E4SFT5517					
Test date: 2018.01.24		Test site: RF Site		Tested by: Seven	
Test Mode	CH	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit	
				6dB BW (KHz)	20dB BW
Antenna 0					
IEEE 802.11 b	CH1	9.480	16.383	>500	/
	CH6	9.513	16.120	>500	/
	CH11	9.539	16.301	>500	/
IEEE 802.11 g	CH1	15.841	18.190	>500	/
	CH6	15.131	18.138	>500	/
	CH11	15.579	18.180	>500	/
IEEE 802.11 n HT 20	CH1	15.137	18.157	>500	/
	CH6	15.169	18.496	>500	/
	CH11	15.148	18.252	>500	/
IEEE 802.11 n HT 40	CH3	35.101	39.665	>500	/
	CH6	35.062	39.189	>500	/
	CH9	35.108	39.198	>500	/
Antenna 1					
IEEE 802.11 b	CH1	9.865	16.242	>500	/
	CH6	8.203	16.583	>500	/
	CH11	9.214	16.314	>500	/
IEEE 802.11 g	CH1	15.160	18.177	>500	/
	CH6	15.144	18.254	>500	/
	CH11	15.381	18.427	>500	/
IEEE 802.11 n HT 20	CH1	15.740	18.123	>500	/
	CH6	15.169	18.388	>500	/
	CH11	15.113	18.567	>500	/
IEEE 802.11 n HT 40	CH3	35.127	39.813	>500	/
	CH6	35.098	39.234	>500	/
	CH9	35.111	39.264	>500	/
Conclusion : PASS					

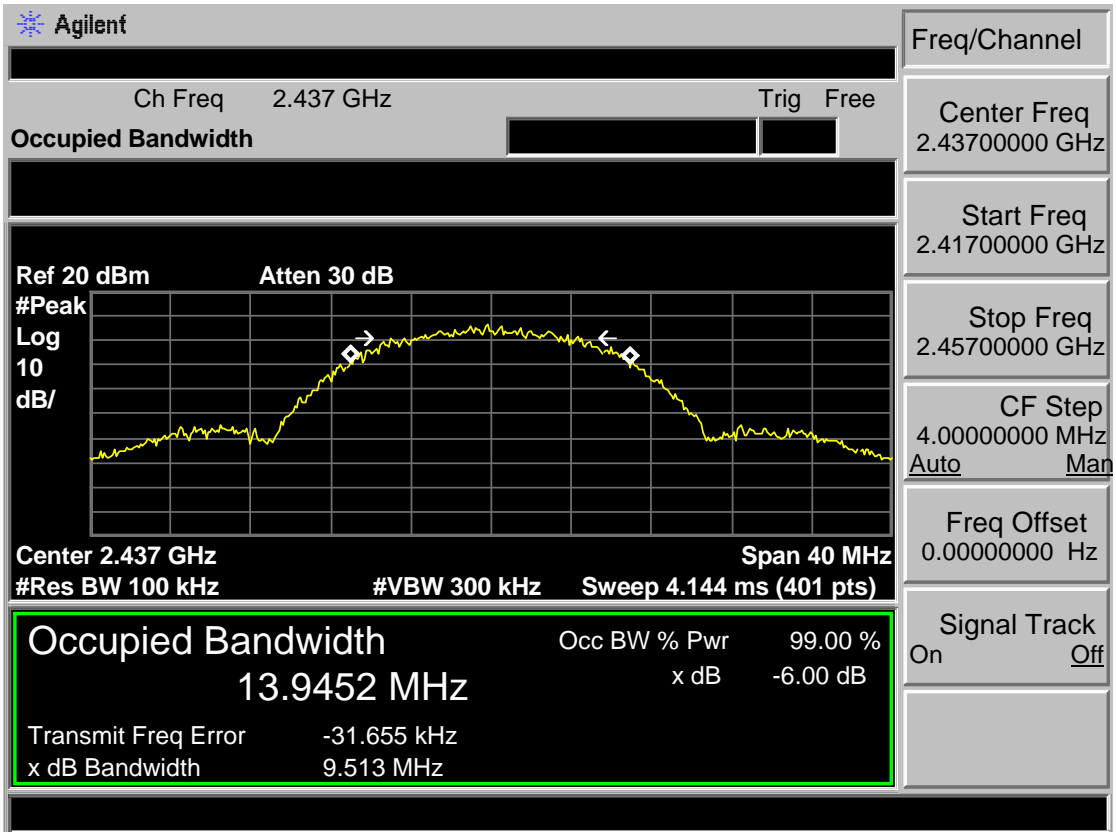
6.5 6dB Test Data

Antenna 0

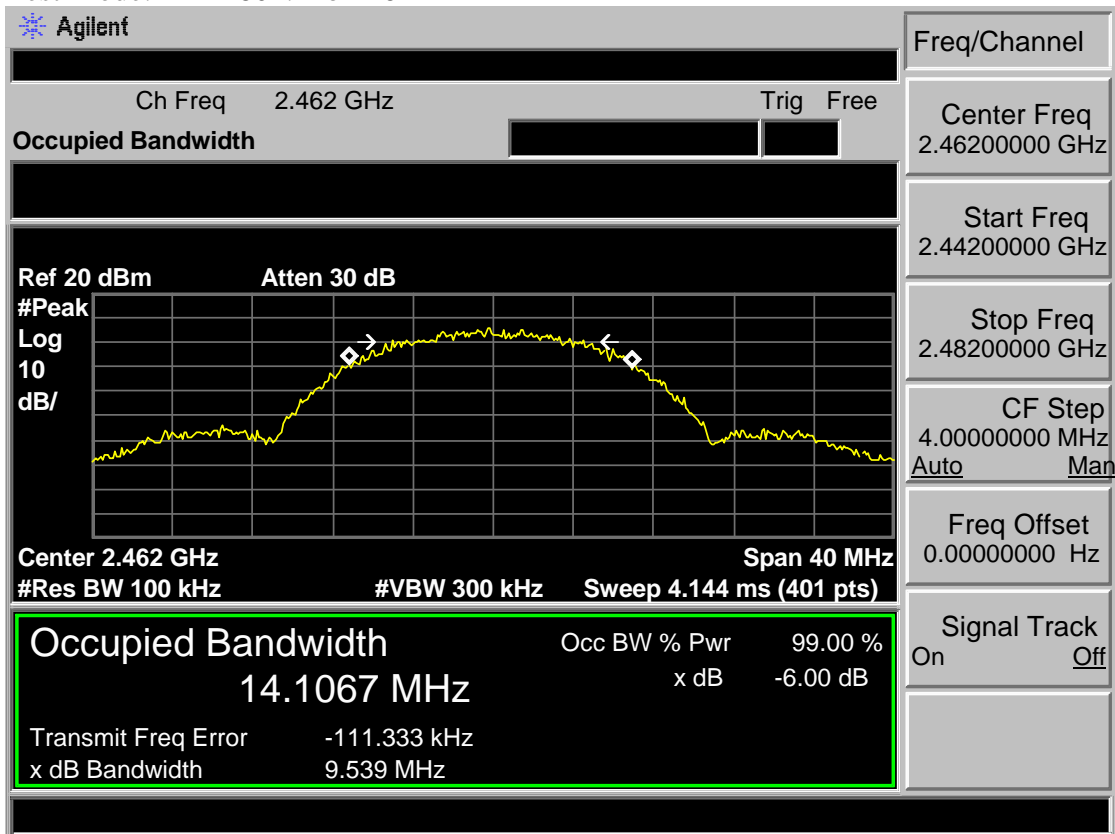
Test Mode: IEEE 802.11b 2412MHz



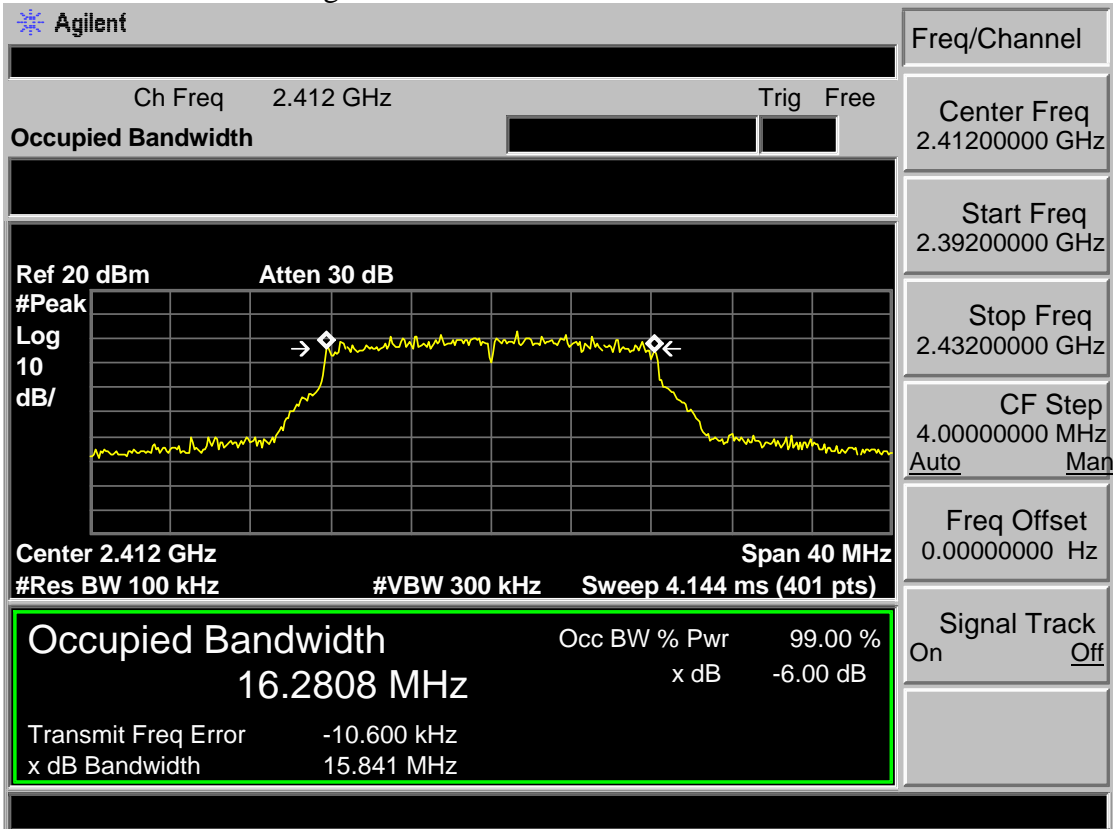
Test Mode: IEEE 802.11b 2437MHz



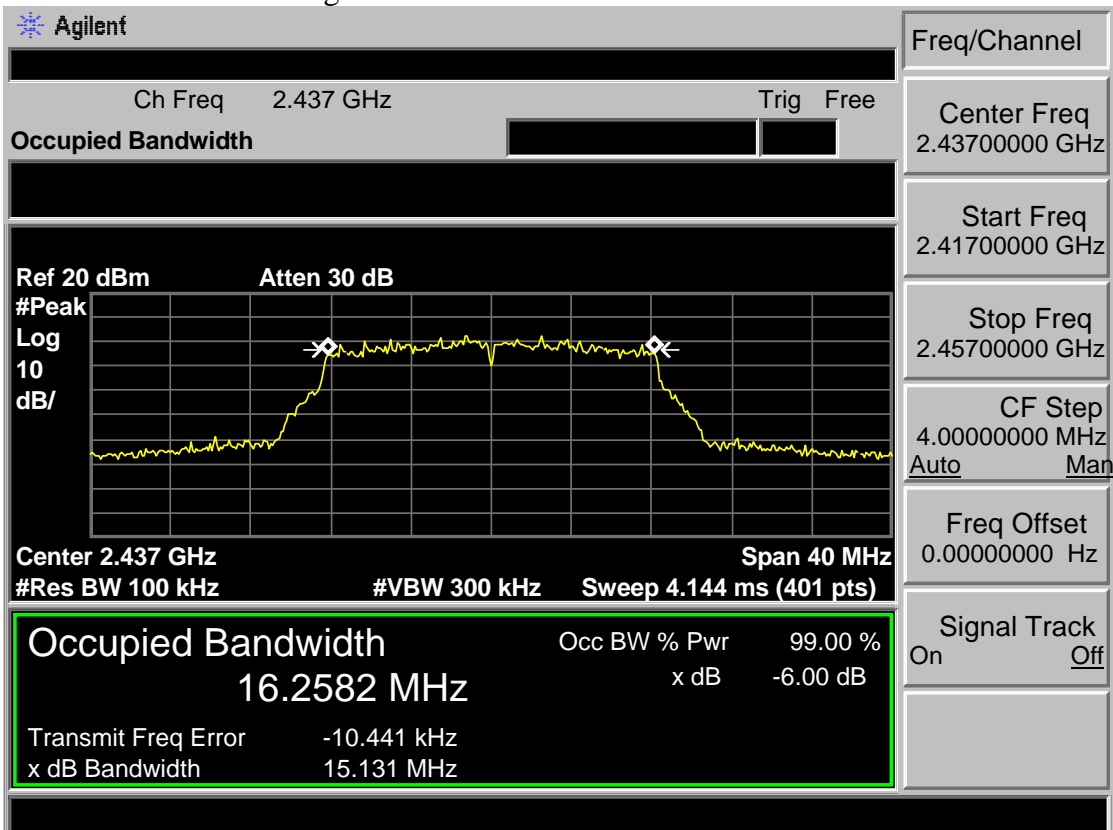
Test Mode: IEEE 802.11b 2462MHz



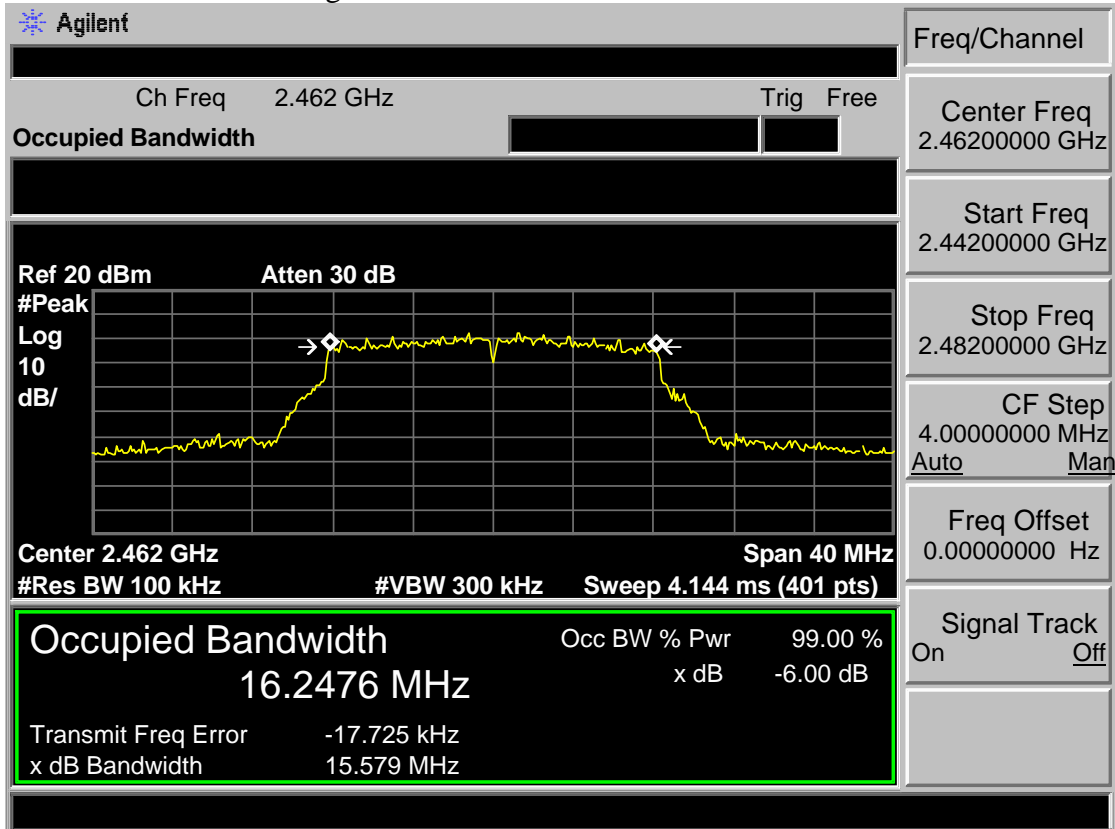
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz



Test Mode: IEEE 802.11g 2462MHz



Test Mode: IEEE 802.11n HT20 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak

Log 10 dB/

Center 2.412 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.2849 MHz		x dB	-6.00 dB
Transmit Freq Error	5.731 kHz		
x dB Bandwidth	15.137 MHz		

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak

Log 10 dB/

Center 2.437 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.3439 MHz		x dB	-6.00 dB
Transmit Freq Error	-14.042 kHz		
x dB Bandwidth	15.169 MHz		

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

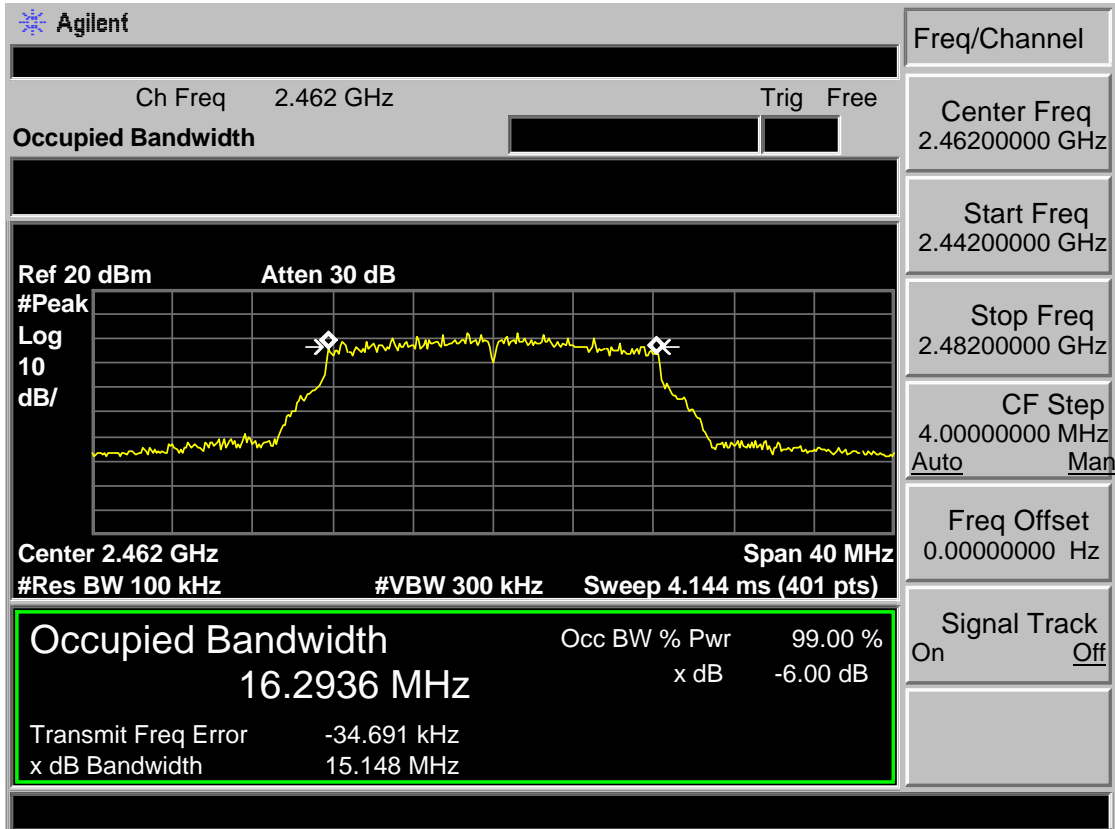
Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz
Auto Man

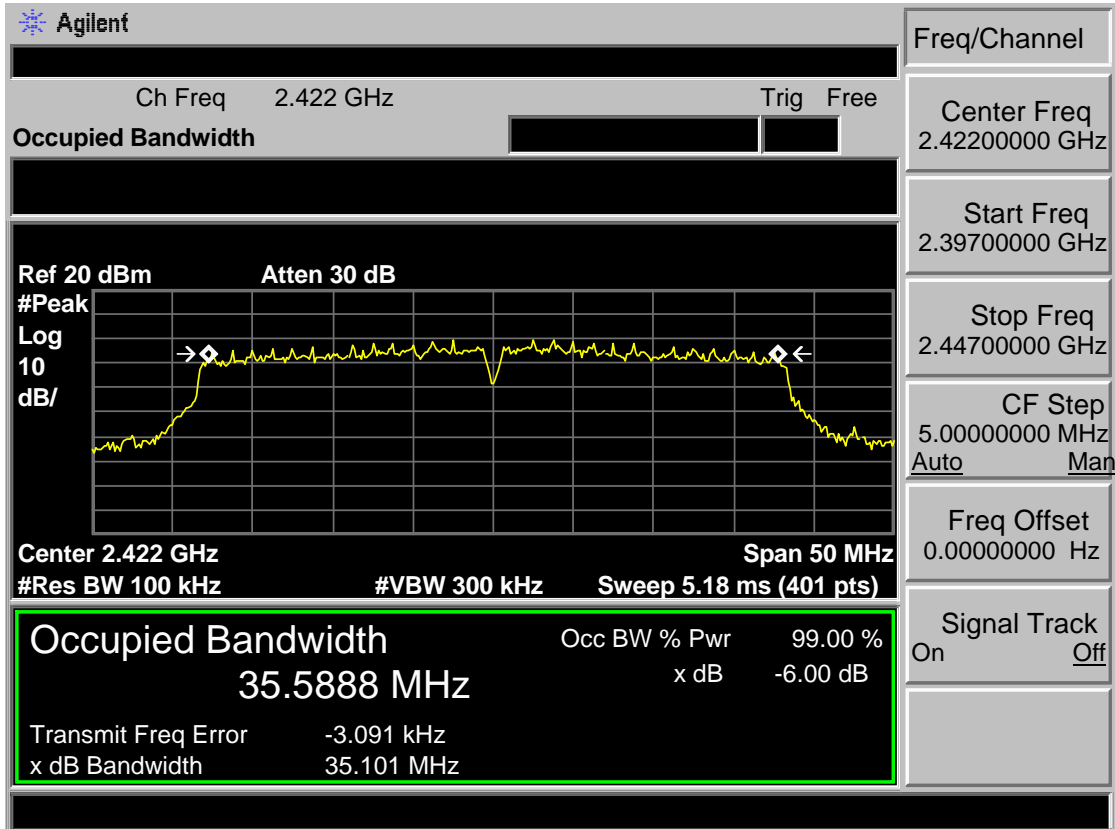
Freq Offset 0.00000000 Hz

Signal Track On Off

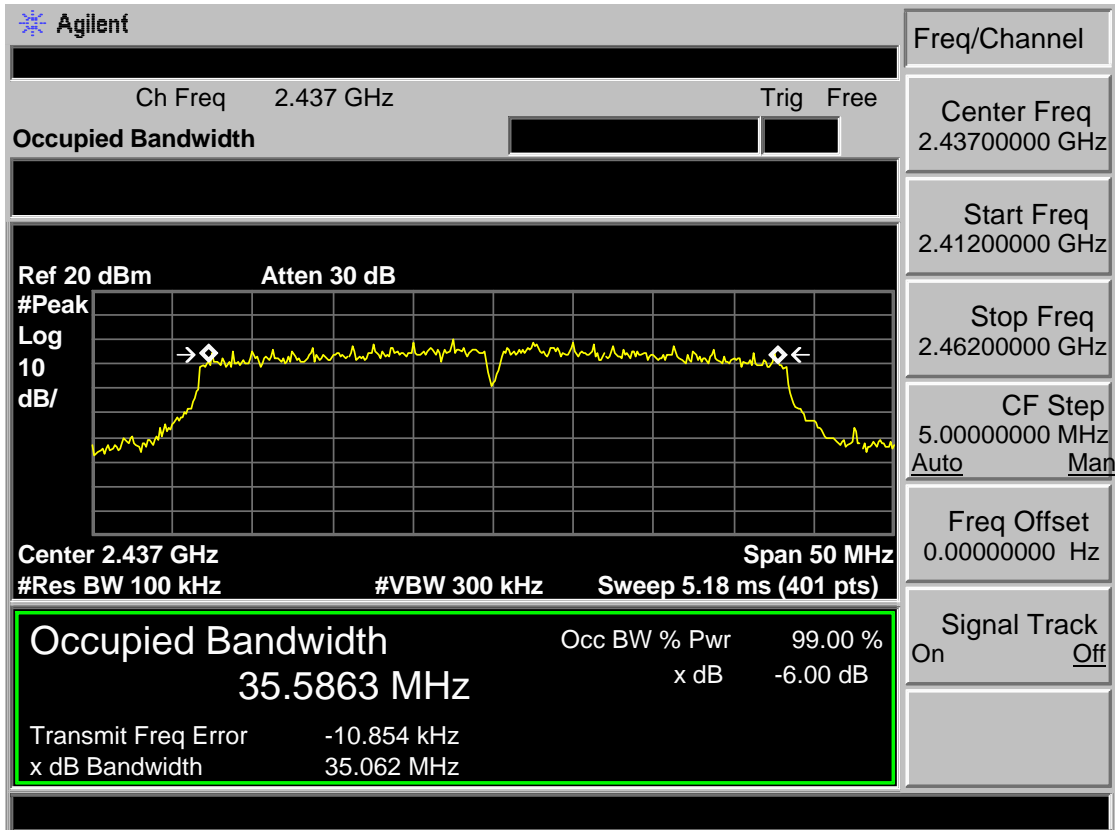
Test Mode: IEEE 802.11n HT20 2462MHz



Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.452 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
35.6016 MHz		x dB	-6.00 dB
Transmit Freq Error	-30.917 kHz		
x dB Bandwidth	35.108 MHz		

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.42700000 GHz

Stop Freq
2.47700000 GHz

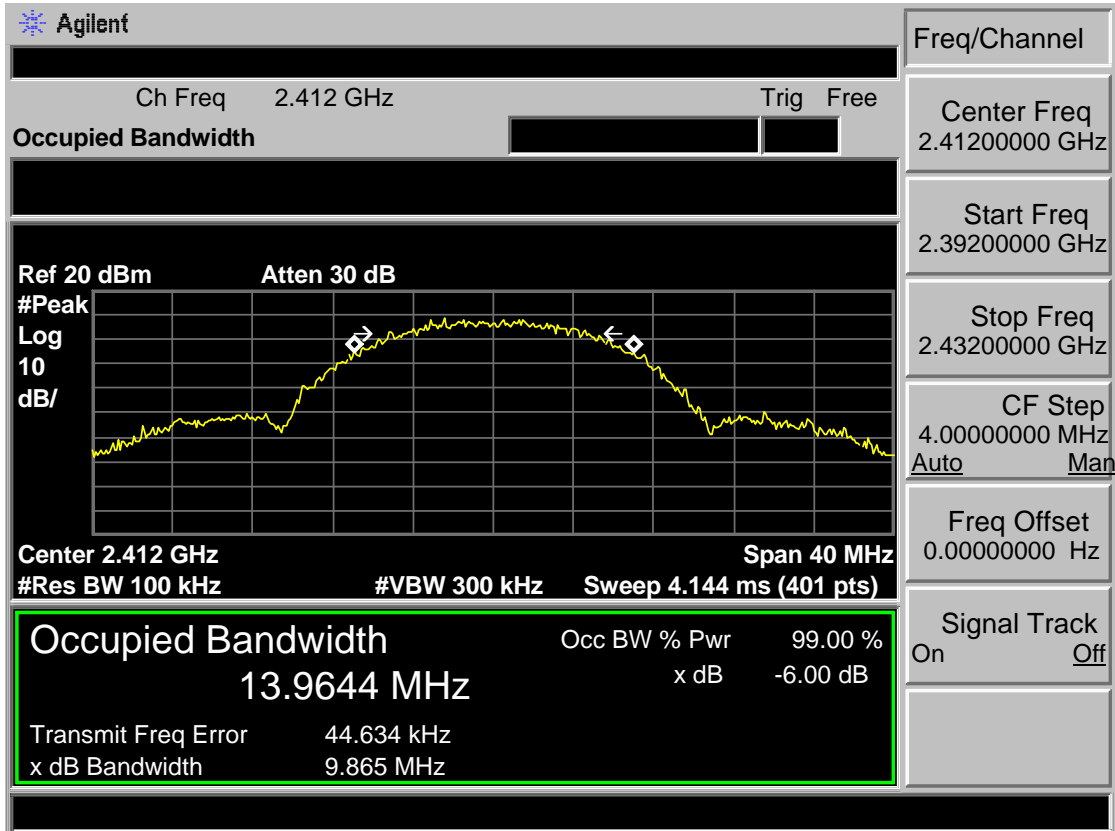
CF Step
5.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

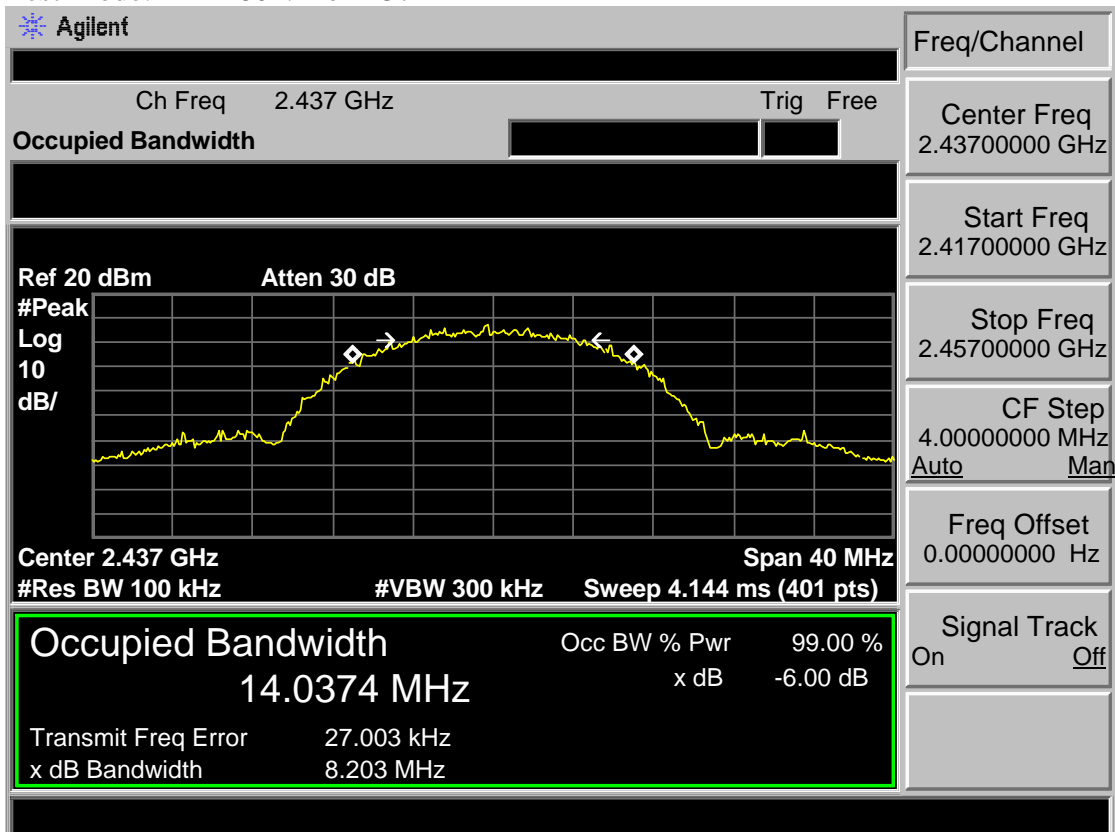
Signal Track
On Off

Antenna 1

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
14.0479 MHz	x dB	-6.00 dB
Transmit Freq Error	-22.064 kHz	
x dB Bandwidth	9.214 MHz	

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

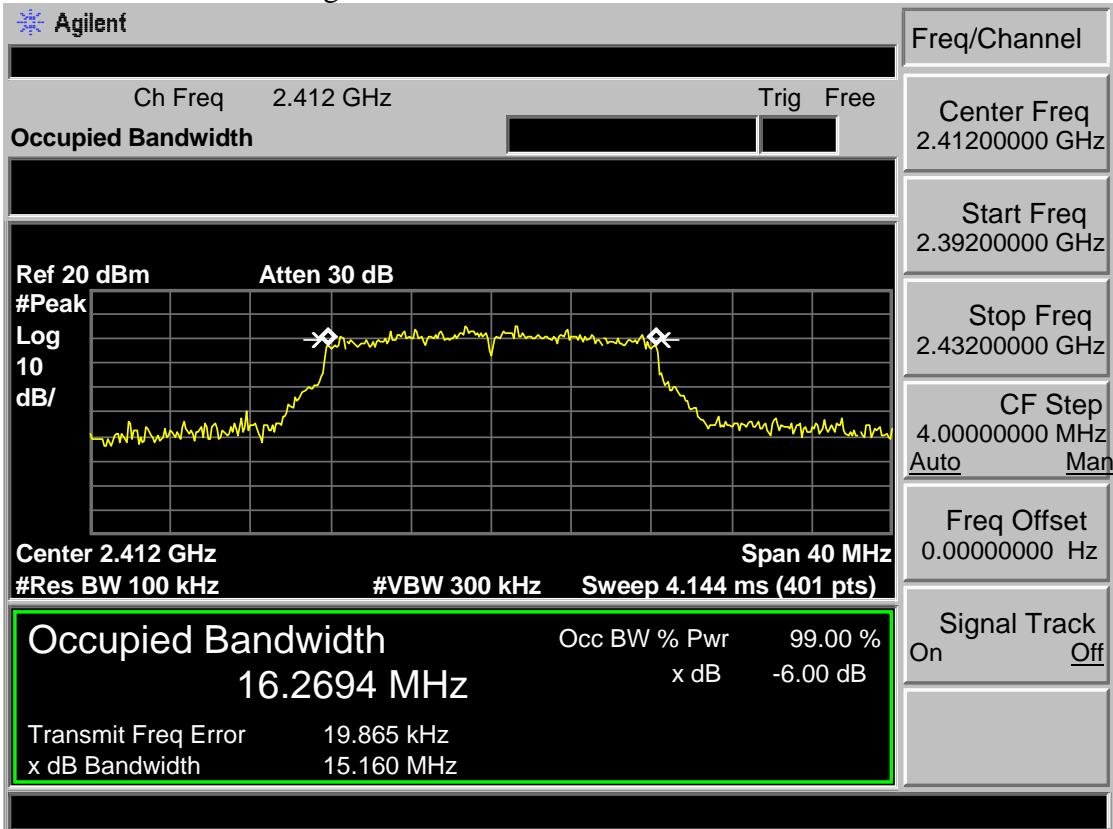
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

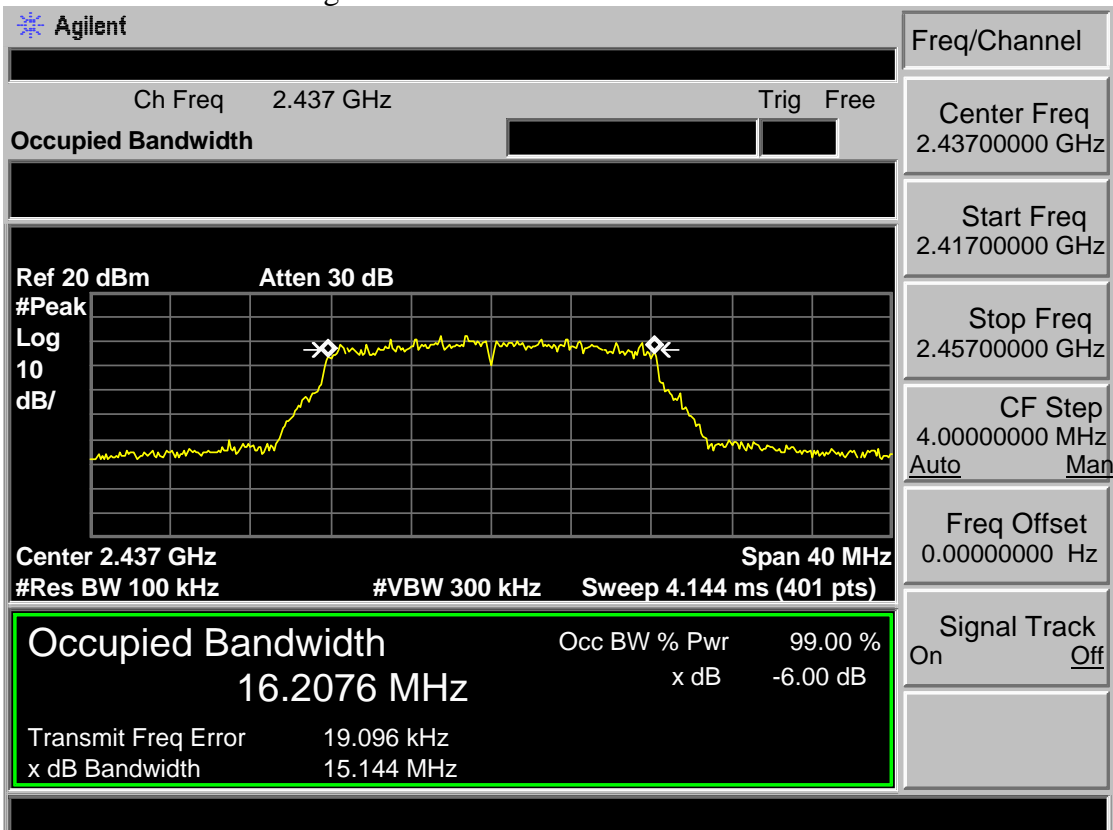
Freq Offset
0.00000000 Hz

Signal Track
On Off

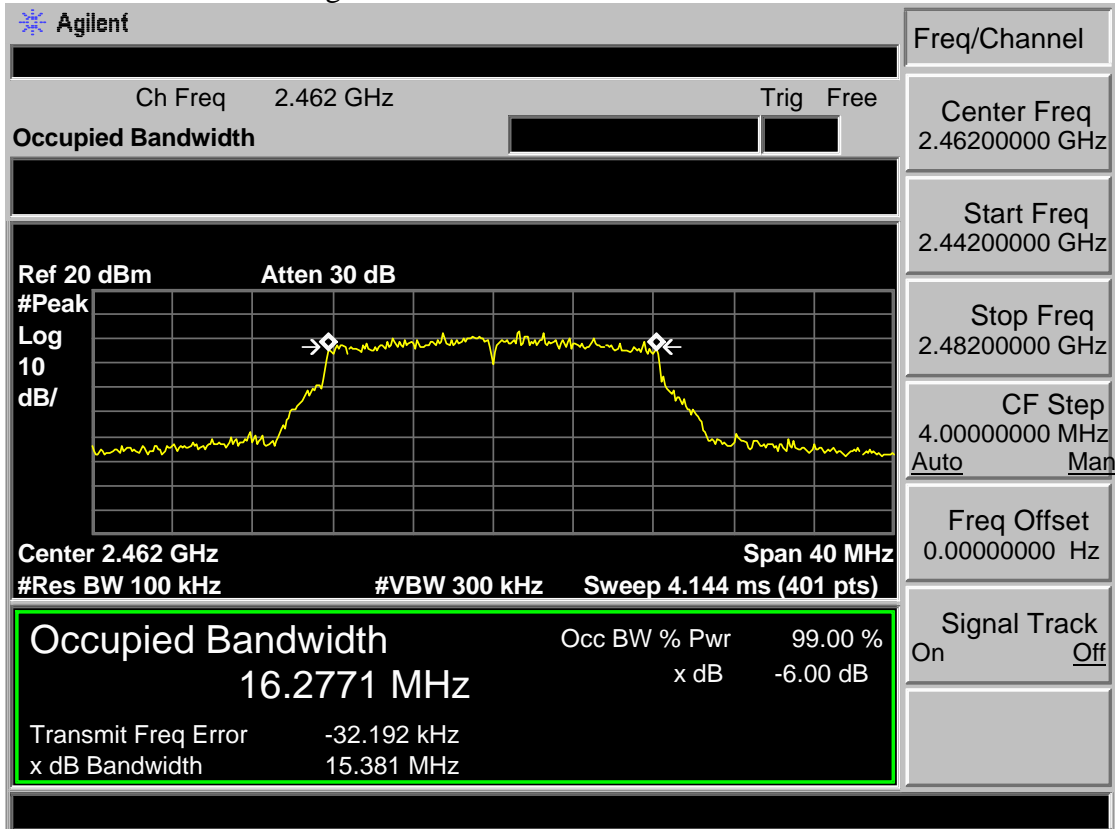
Test Mode: IEEE 802.11g 2412MHz



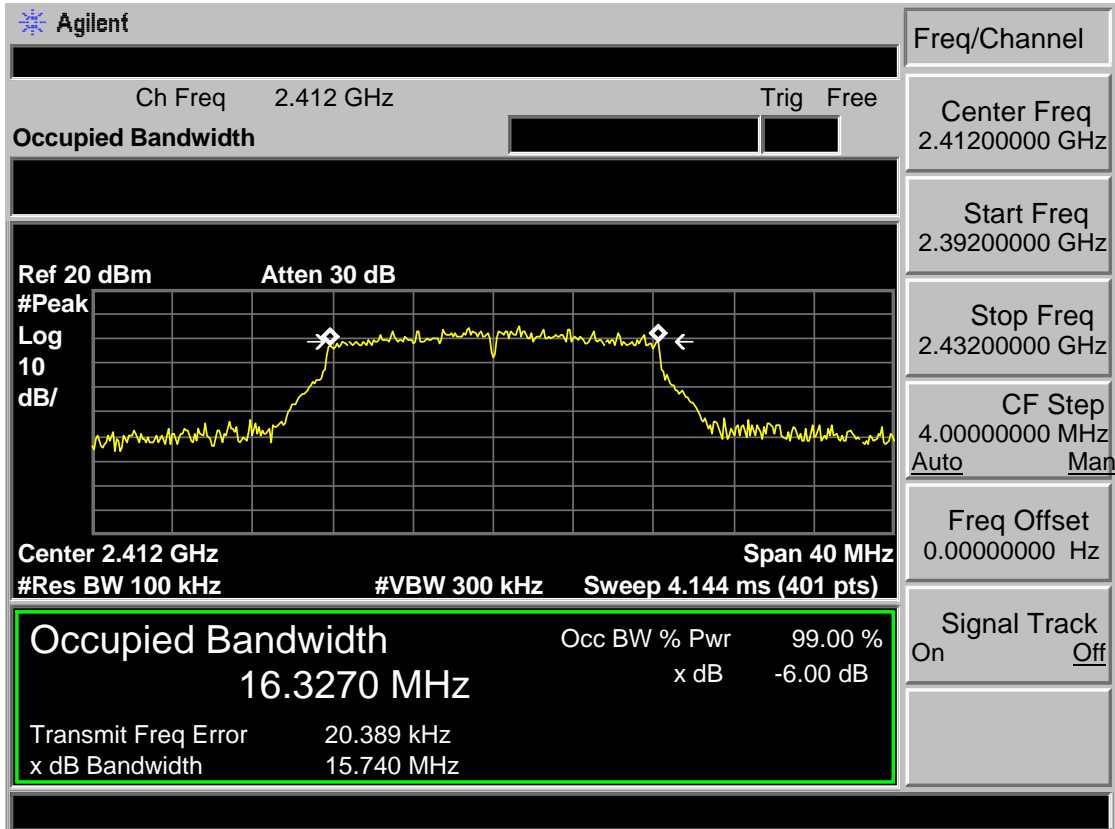
Test Mode: IEEE 802.11g 2437MHz



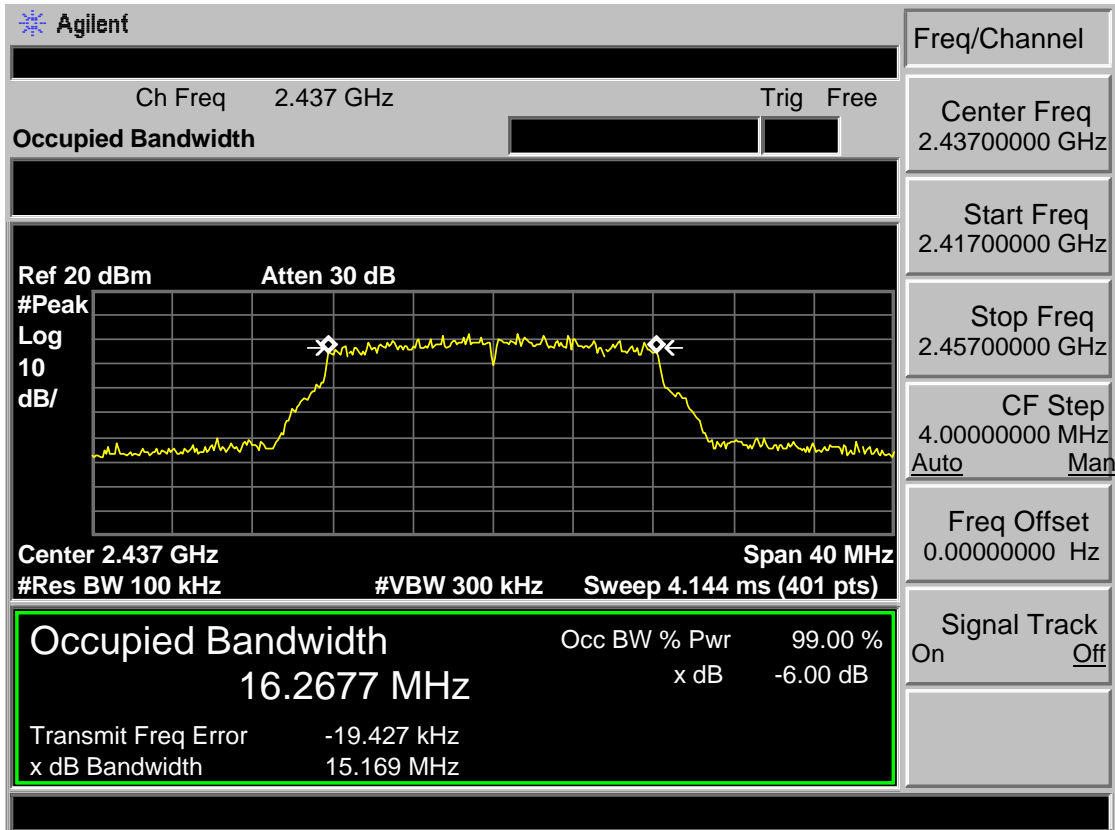
Test Mode: IEEE 802.11g 2462MHz



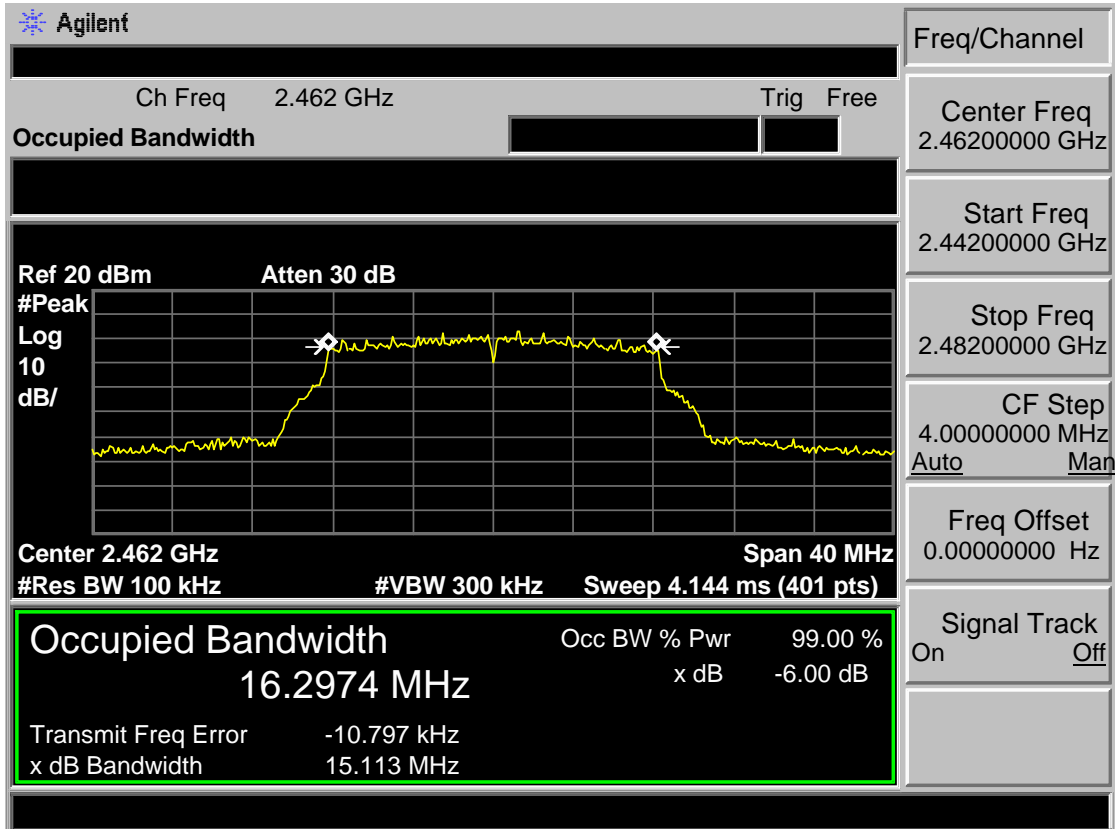
Test Mode: IEEE 802.11n HT20 2412MHz



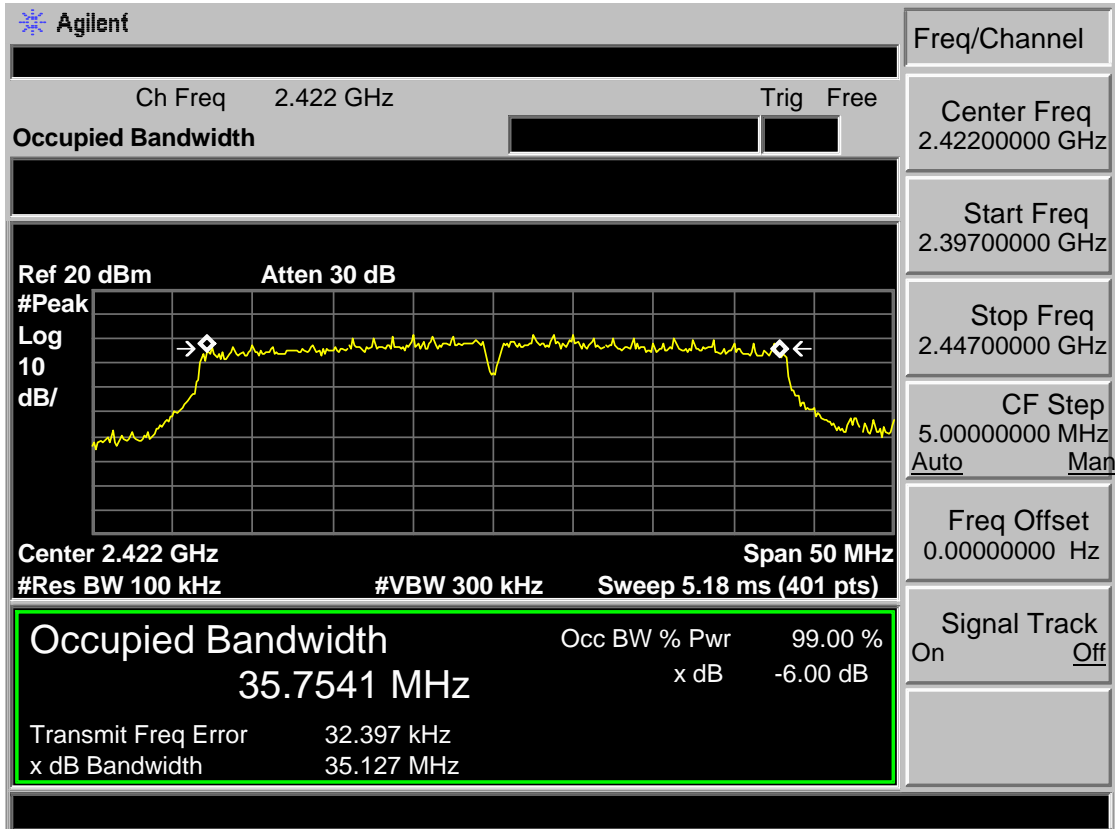
Test Mode: IEEE 802.11n HT20 2437MHz



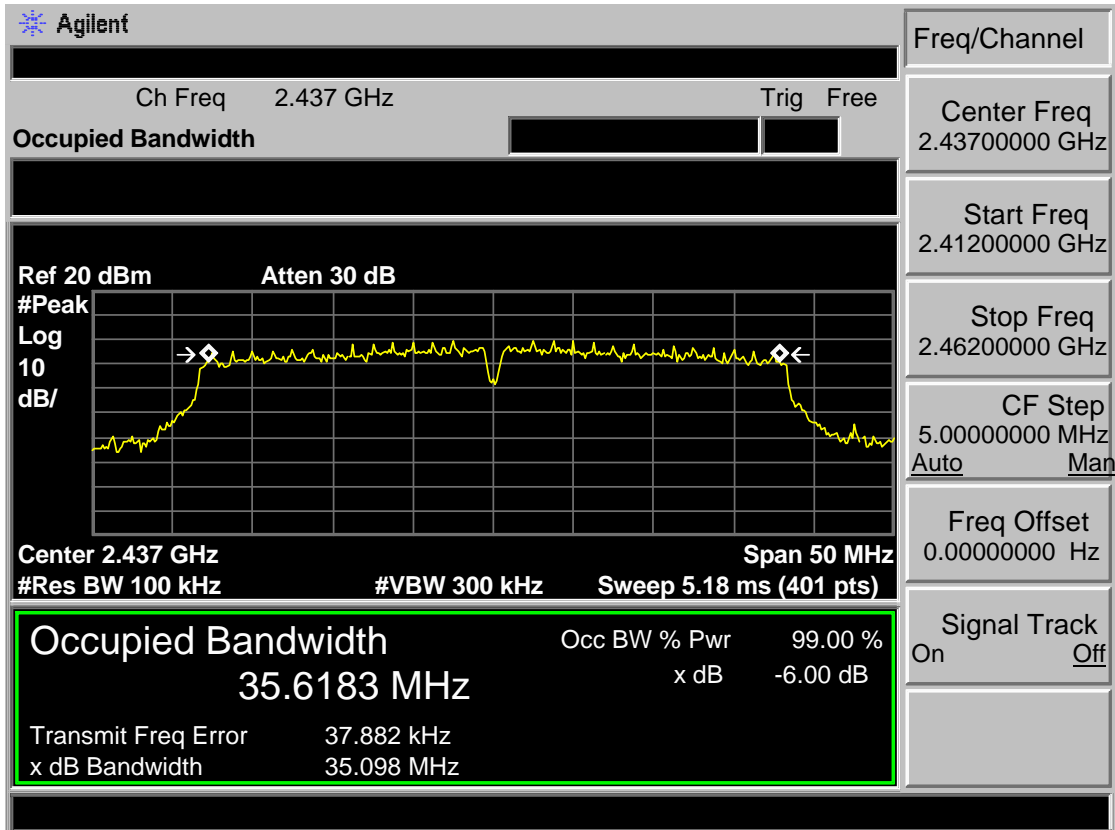
Test Mode: IEEE 802.11n HT20 2462MHz



Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.452 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
35.7311 MHz		x dB	-6.00 dB
Transmit Freq Error	-7.372 kHz		
x dB Bandwidth	35.111 MHz		

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.42700000 GHz

Stop Freq
2.47700000 GHz

CF Step
5.00000000 MHz
Auto Man

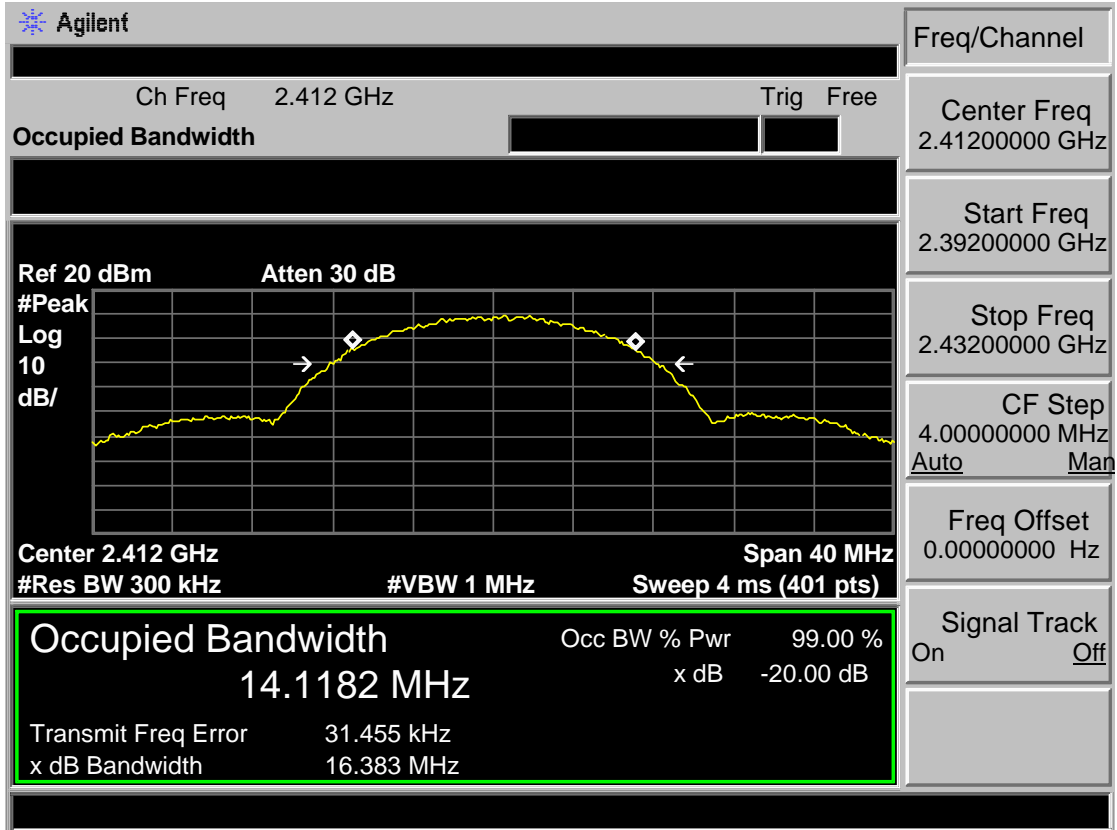
Freq Offset
0.00000000 Hz

Signal Track
On Off

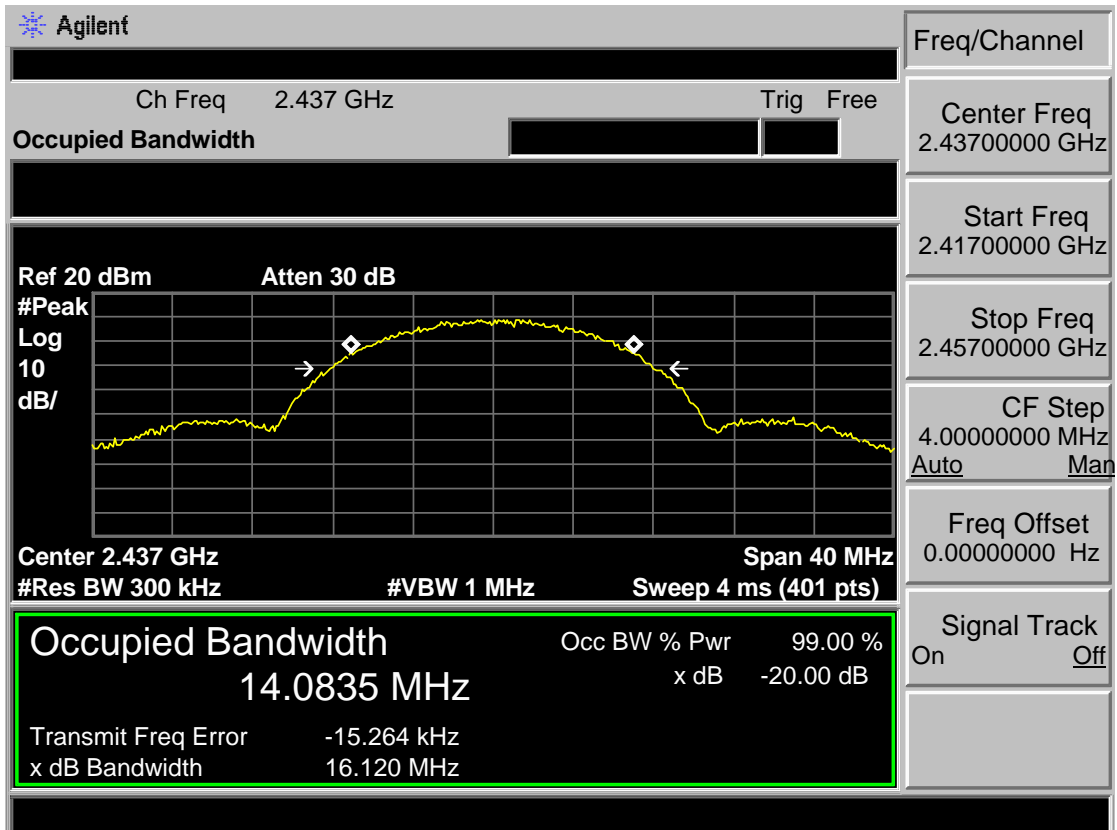
6.6 20dB Test Data

Antenna 0

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Occupied Bandwidth Occ BW % Pwr 99.00 %

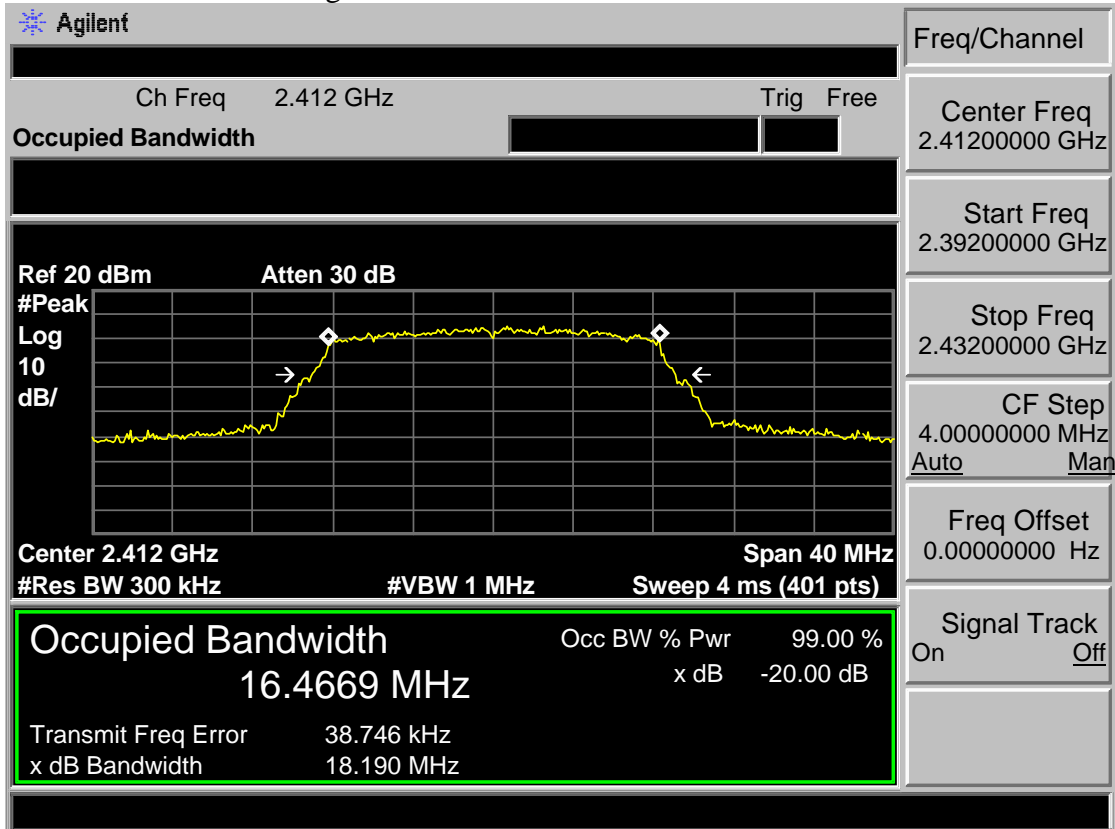
14.0482 MHz

x dB -20.00 dB

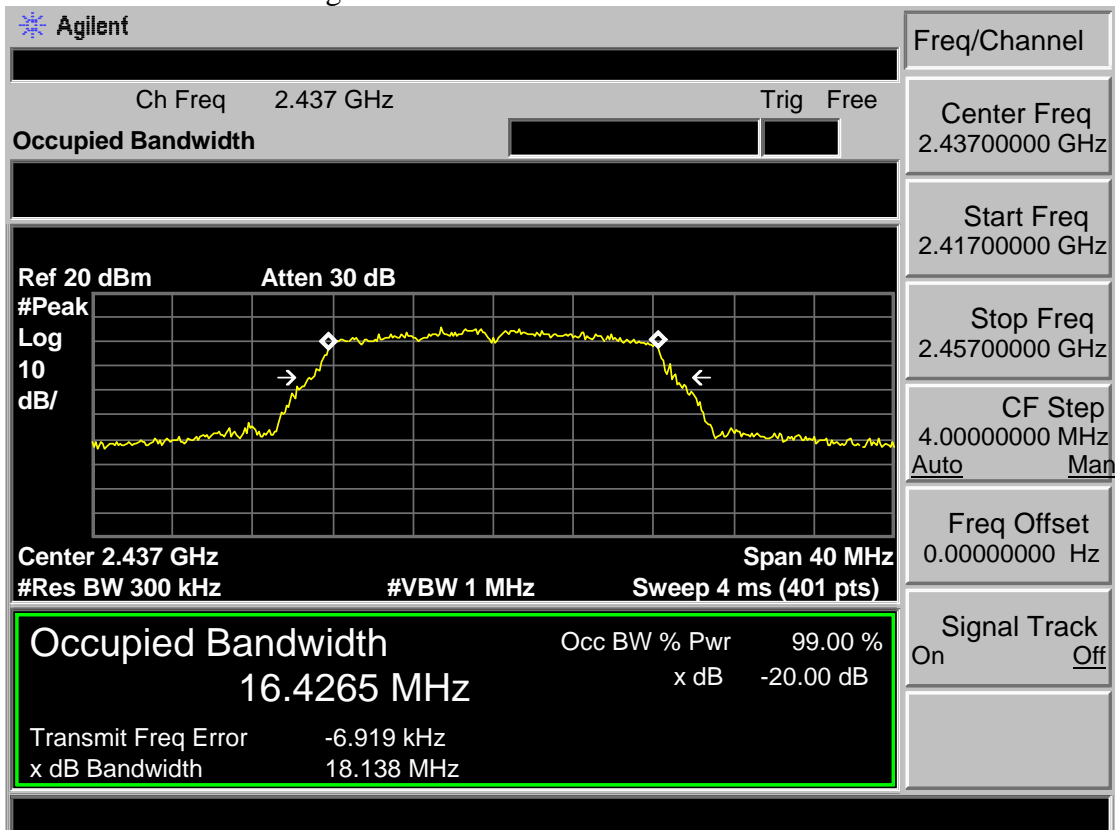
Transmit Freq Error -47.038 kHz

x dB Bandwidth 16.301 MHz

Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz



Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4354 MHz		x dB	-20.00 dB
Transmit Freq Error	-23.098 kHz		
x dB Bandwidth	18.180 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

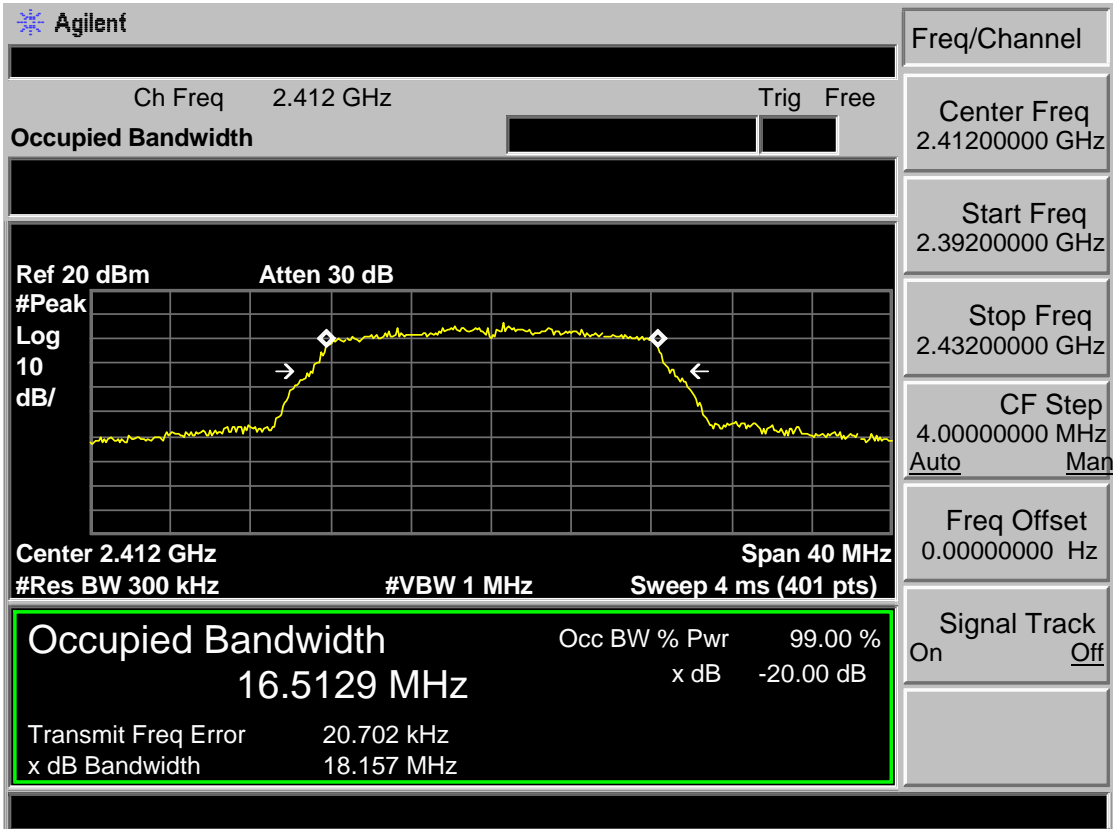
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

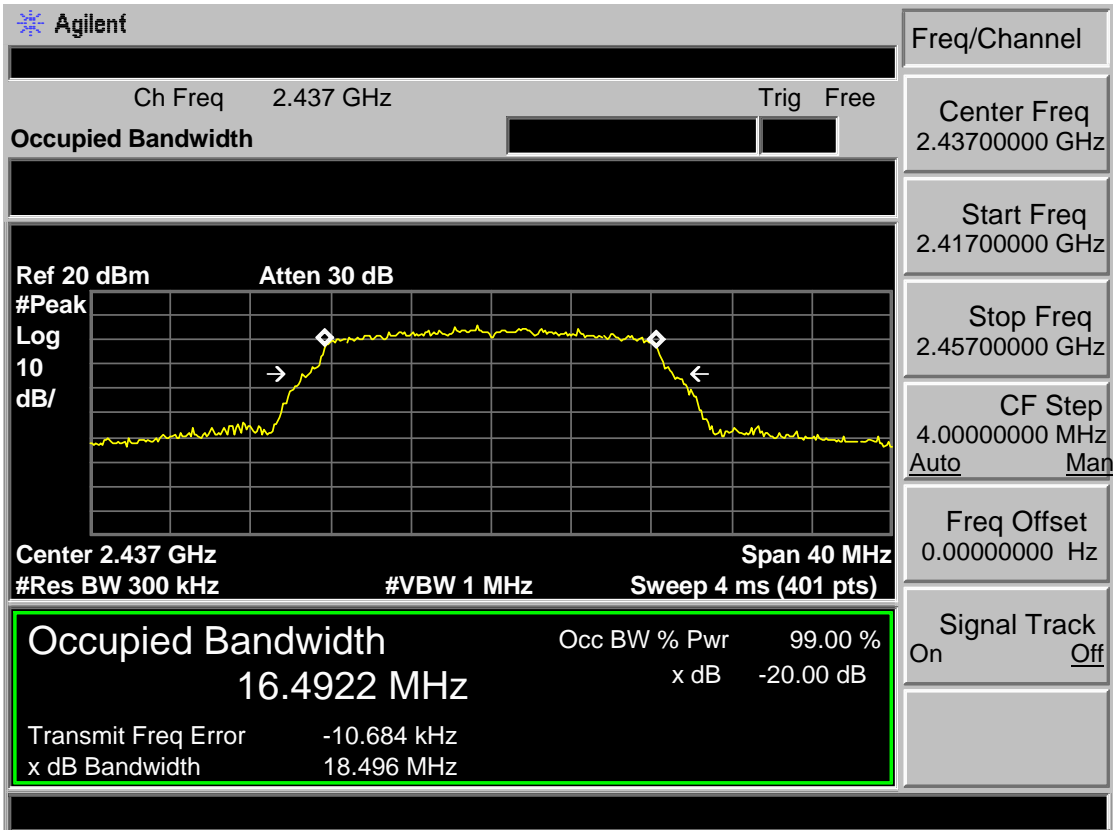
Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.5128 MHz		x dB	-20.00 dB
Transmit Freq Error	-12.541 kHz		
x dB Bandwidth	18.252 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

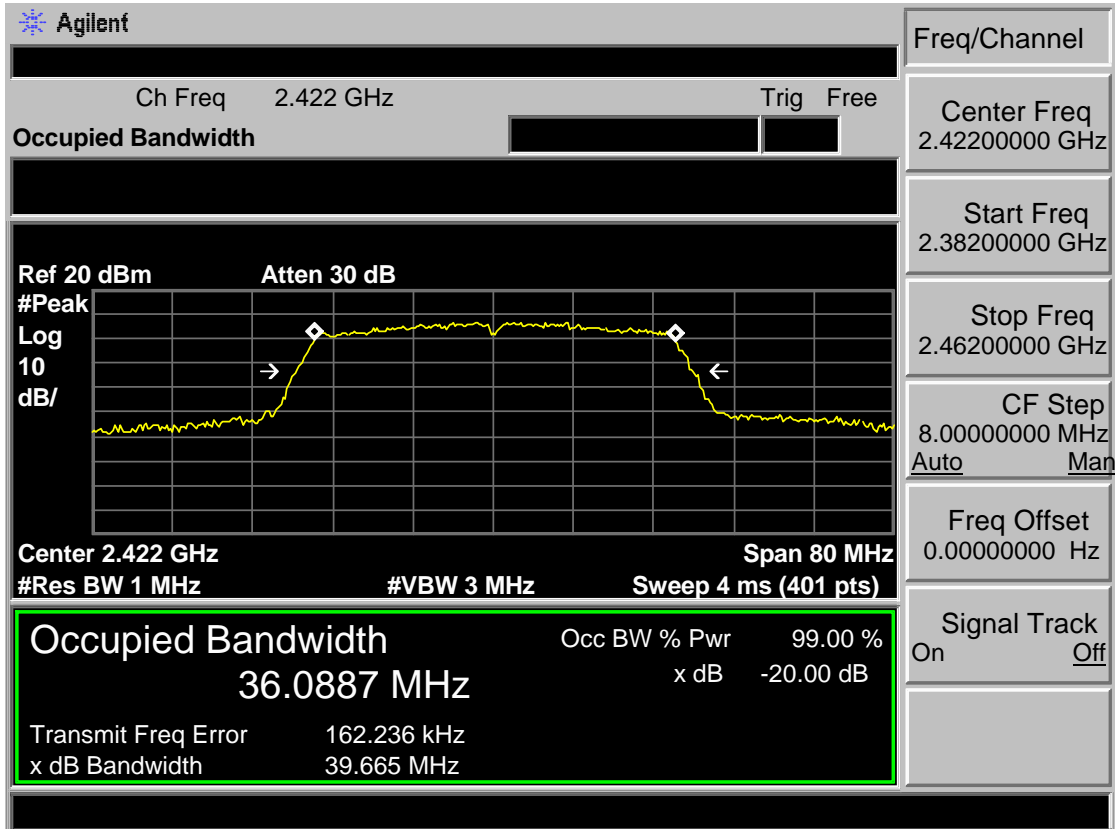
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

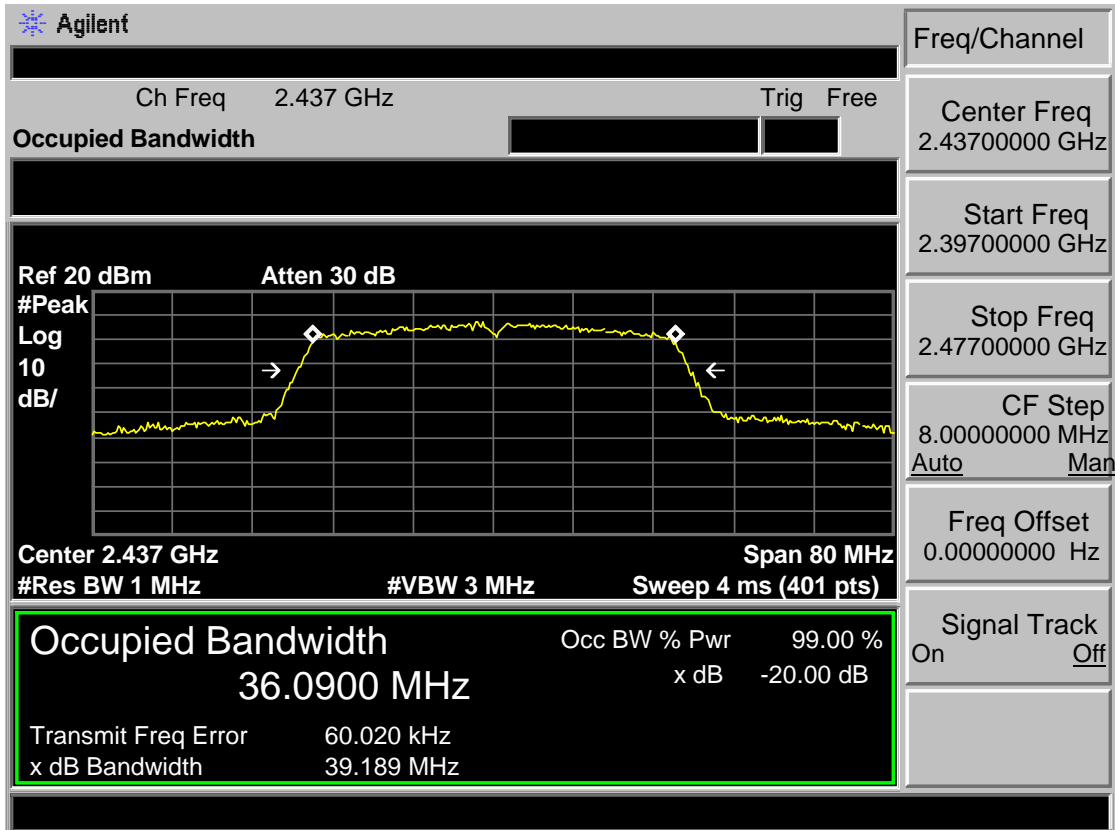
Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.452 GHz Span 80 MHz

#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.41200000 GHz

Stop Freq
2.49200000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Occupied Bandwidth Occ BW % Pwr 99.00 %

36.0890 MHz

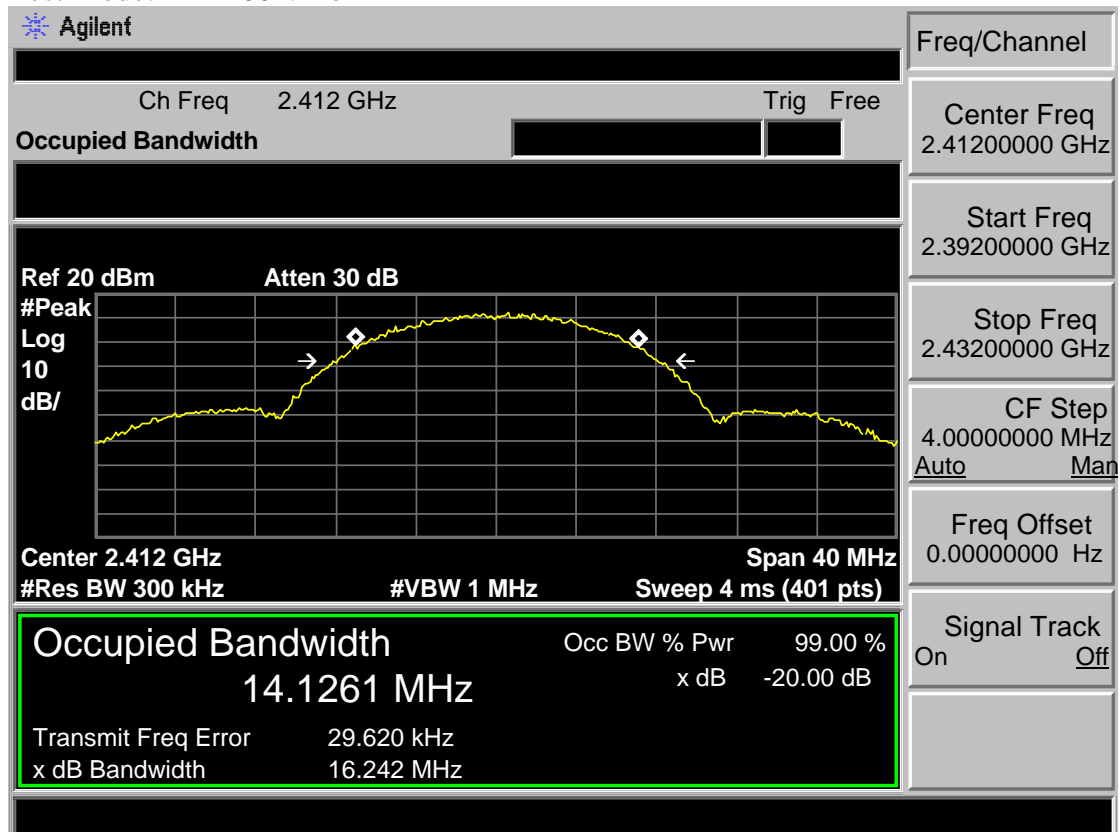
x dB -20.00 dB

Transmit Freq Error 25.331 kHz

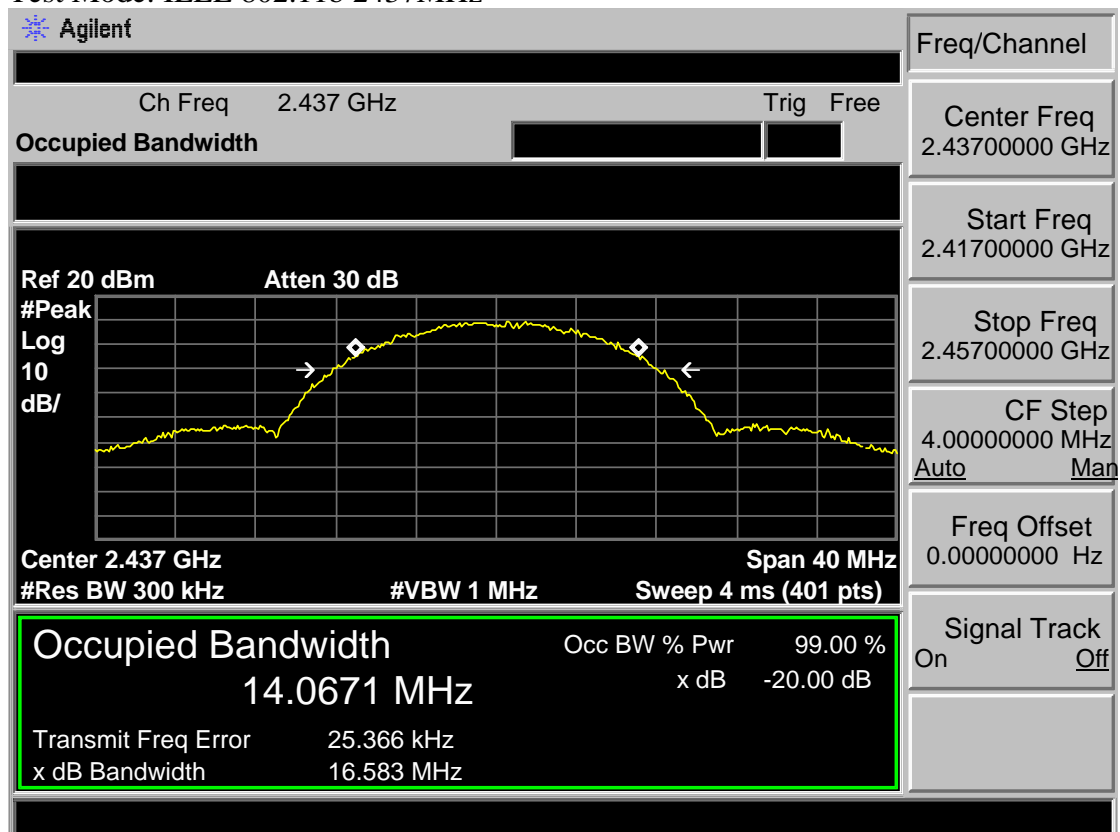
x dB Bandwidth 39.198 MHz

Antenna 1

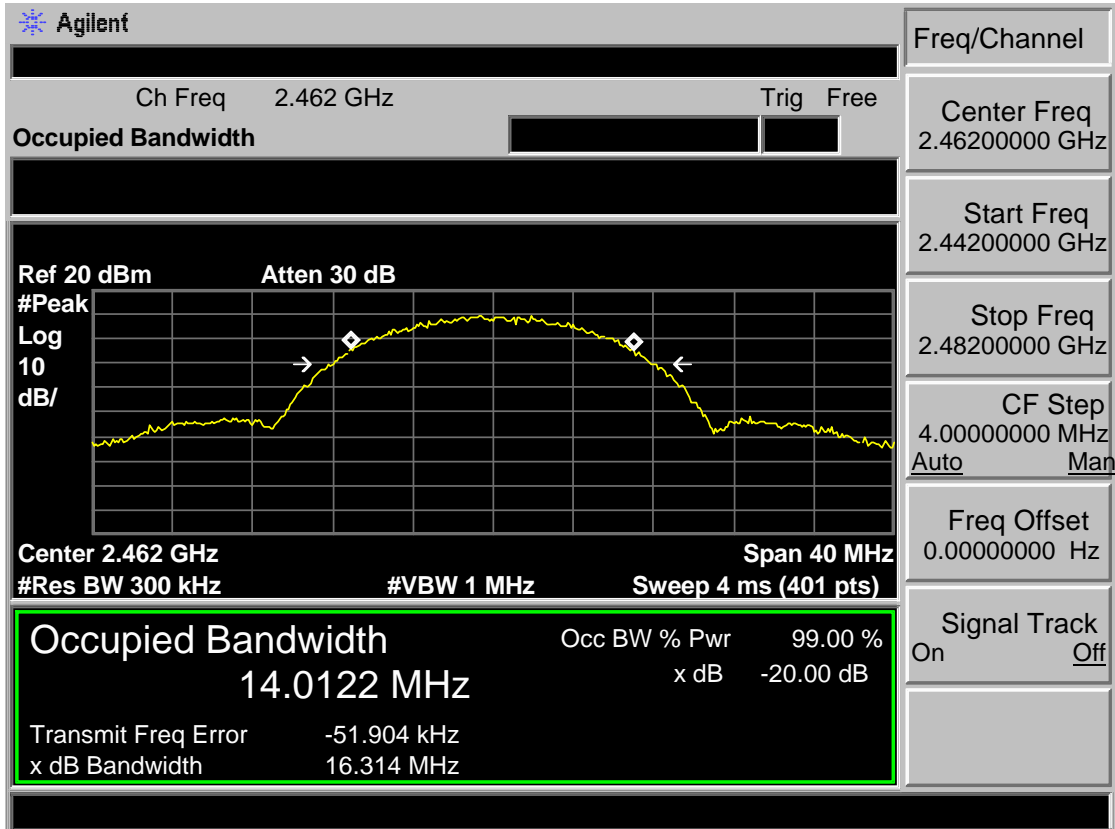
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



Test Mode: IEEE 802.11g 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Center 2.412 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4628 MHz		x dB	-20.00 dB
Transmit Freq Error	6.414 kHz		
x dB Bandwidth	18.177 MHz		

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4626 MHz		x dB	-20.00 dB
Transmit Freq Error	39.285 kHz		
x dB Bandwidth	18.254 MHz		

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4329 MHz		x dB	-20.00 dB
Transmit Freq Error	-8.213 kHz		
x dB Bandwidth	18.427 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

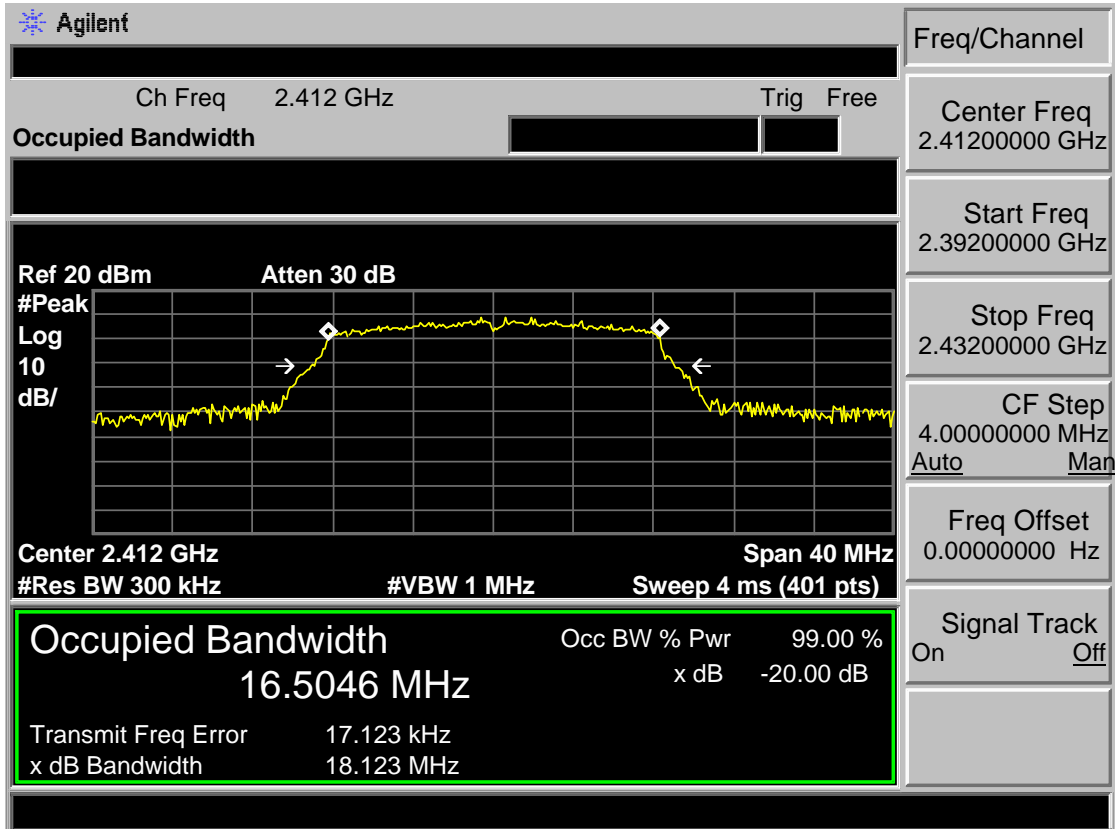
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

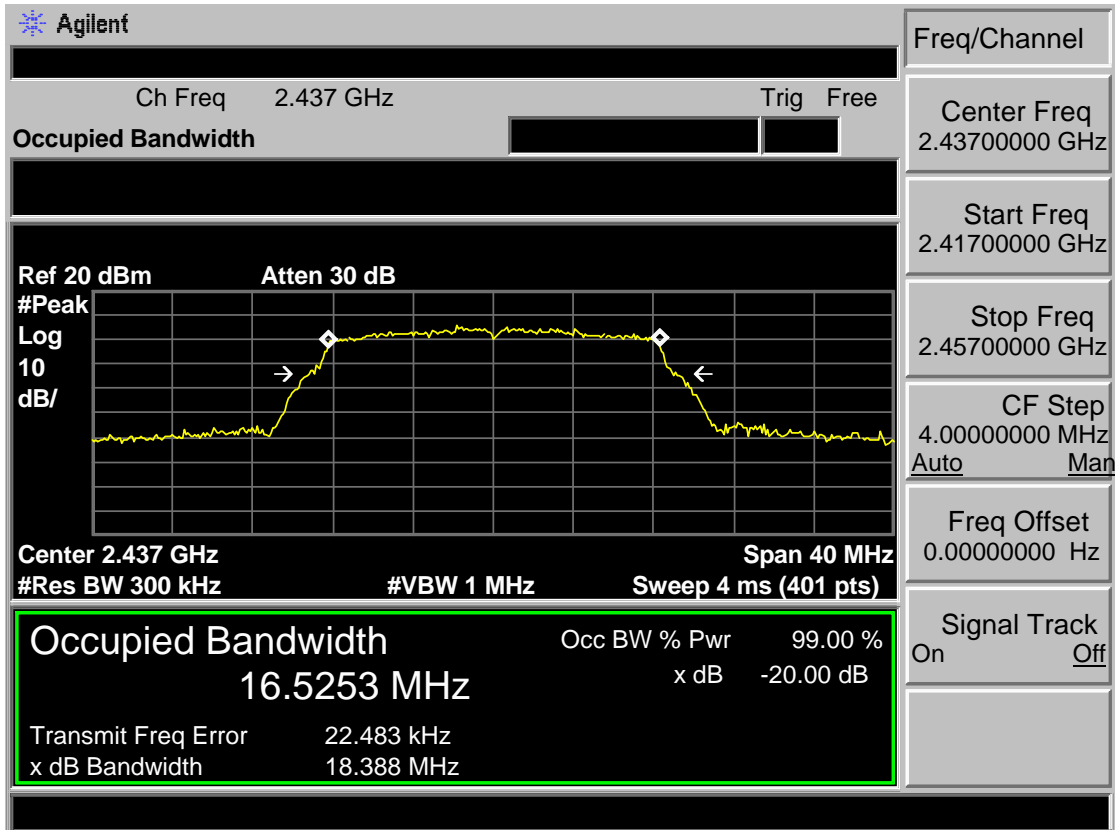
Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4865 MHz		x dB	-20.00 dB
Transmit Freq Error	-9.718 kHz		
x dB Bandwidth	18.567 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

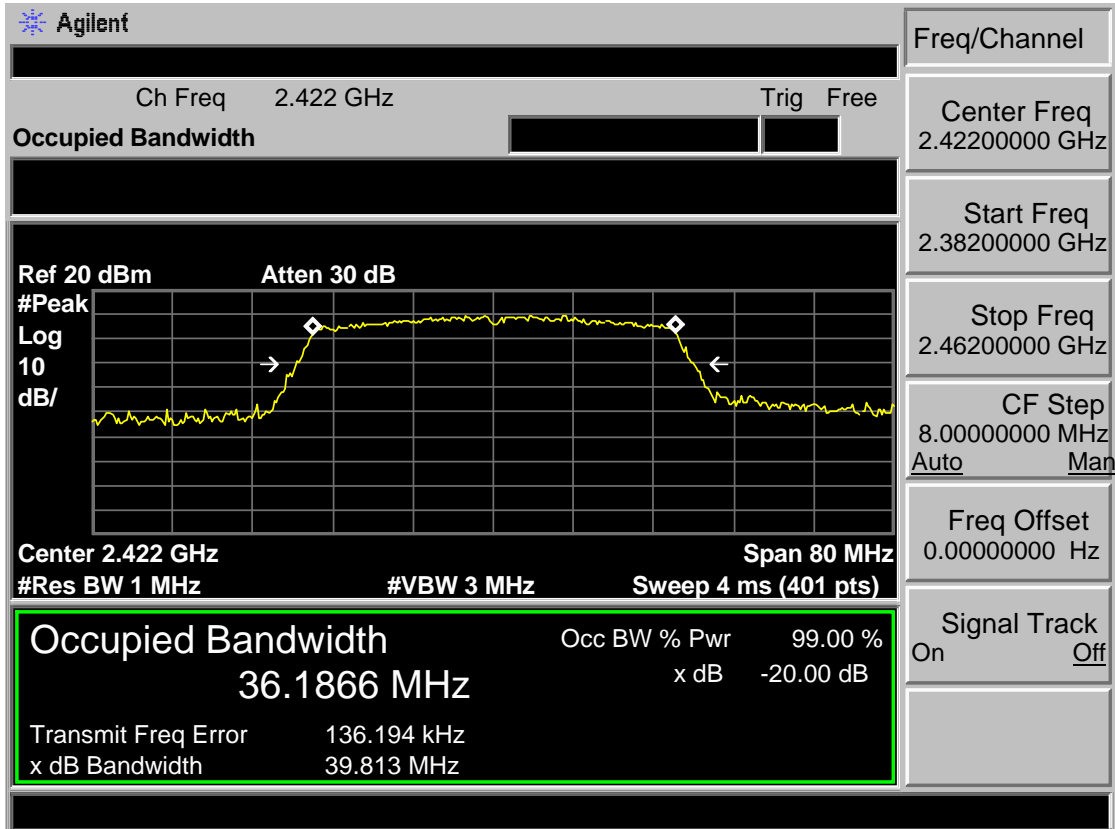
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

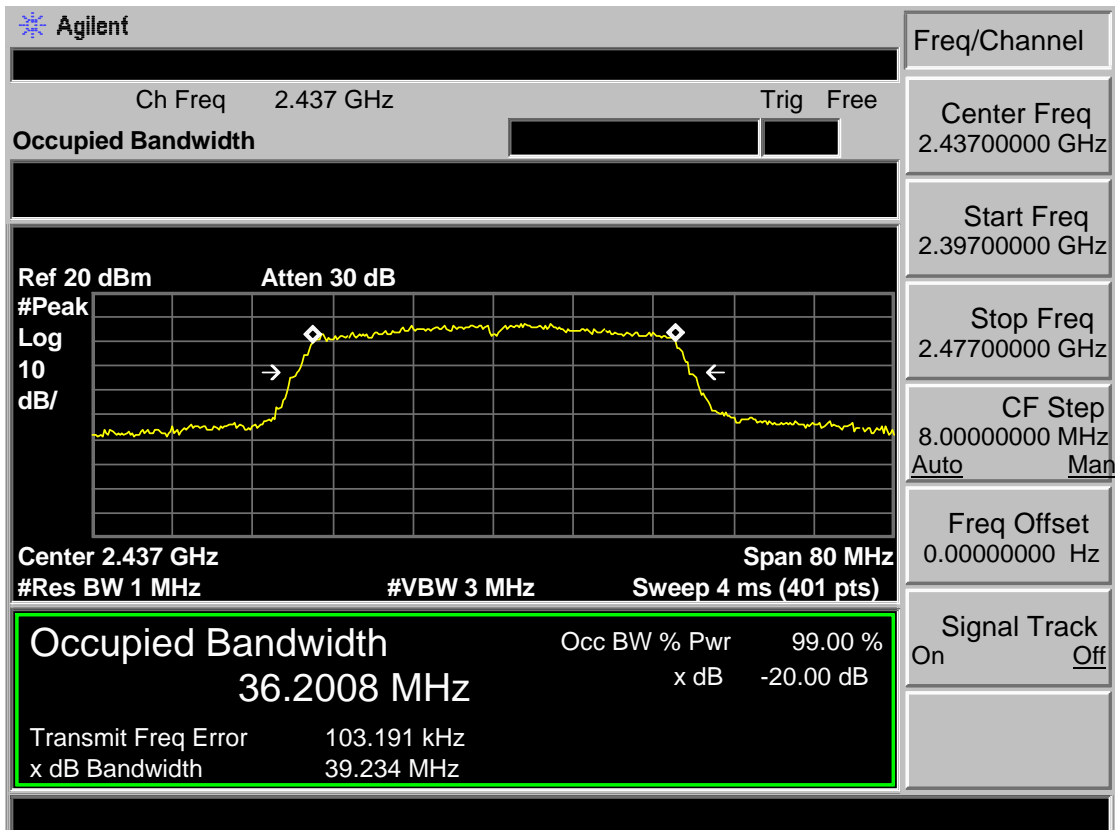
Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Center 2.452 GHz Span 80 MHz
 #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.41200000 GHz

Stop Freq
2.49200000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Occupied Bandwidth Occ BW % Pwr 99.00 %
 36.0369 MHz x dB -20.00 dB

Transmit Freq Error -15.555 kHz
 x dB Bandwidth 39.264 MHz

7 OUTPUT POWER TEST

7.1 Limit

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

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1)Set 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 $\geq 3 \times$ RBW.
 - (4)Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing \leq 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 $\geq 98 \%$, 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.

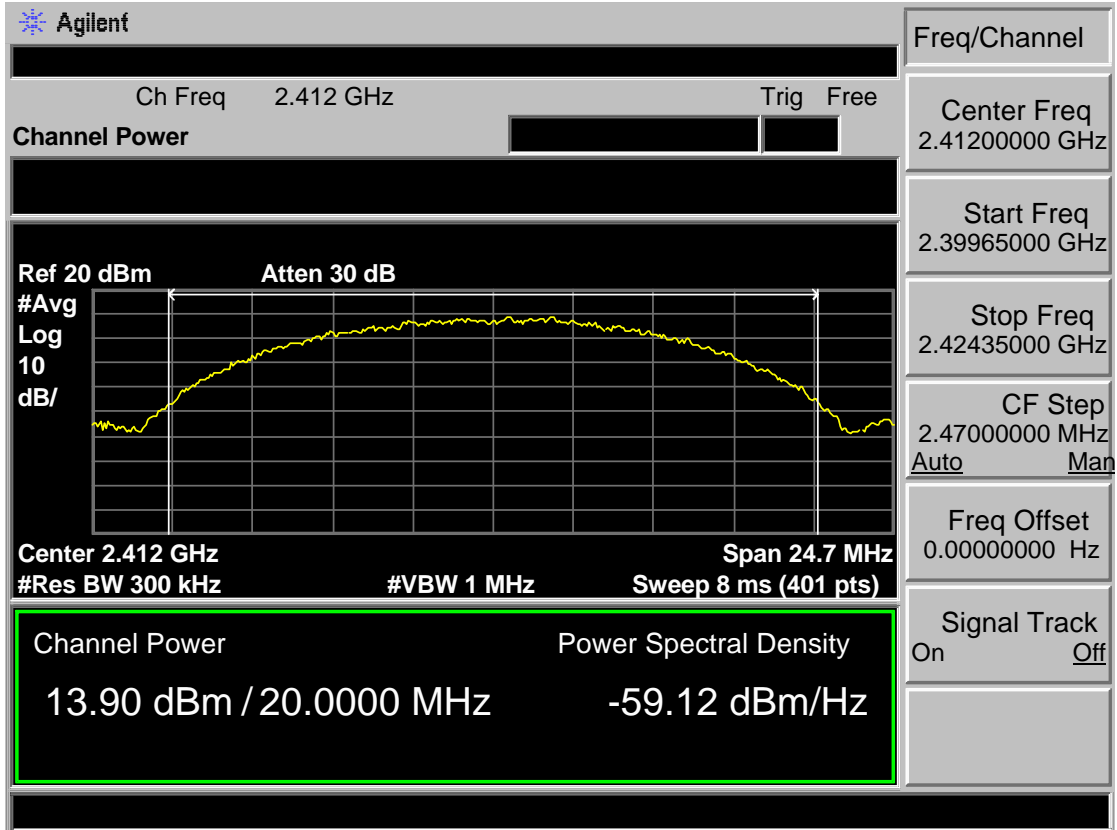
7.3 Test Result

EUT: 55 inch DLED SMART TV					
M/N: E4SFT5517					
Test date: 2018.01.24		Test site: RF Site			Tested by: Seven
Pass					
Test Mode	CH	Conducted Power (dBm)			Limit (dBm)
		Ant 0	Ant 1	Total	
IEEE 802.11 b	CH1	13.90	17.03	/	30
	CH6	13.23	14.58	/	30
	CH11	14.47	14.66	/	30
IEEE 802.11 g	CH1	10.12	14.00	/	30
	CH6	9.83	10.98	/	30
	CH11	10.72	10.79	/	30
IEEE 802.11 n HT 20	CH1	10.13	12.85	14.71	30
	CH6	10.20	10.45	13.34	30
	CH11	10.74	10.53	13.65	30
IEEE 802.11 n HT 40	CH3	8.03	10.00	12.14	30
	CH6	8.39	7.90	11.16	30
	CH9	8.32	9.04	11.71	30
Conclusion : PASS					

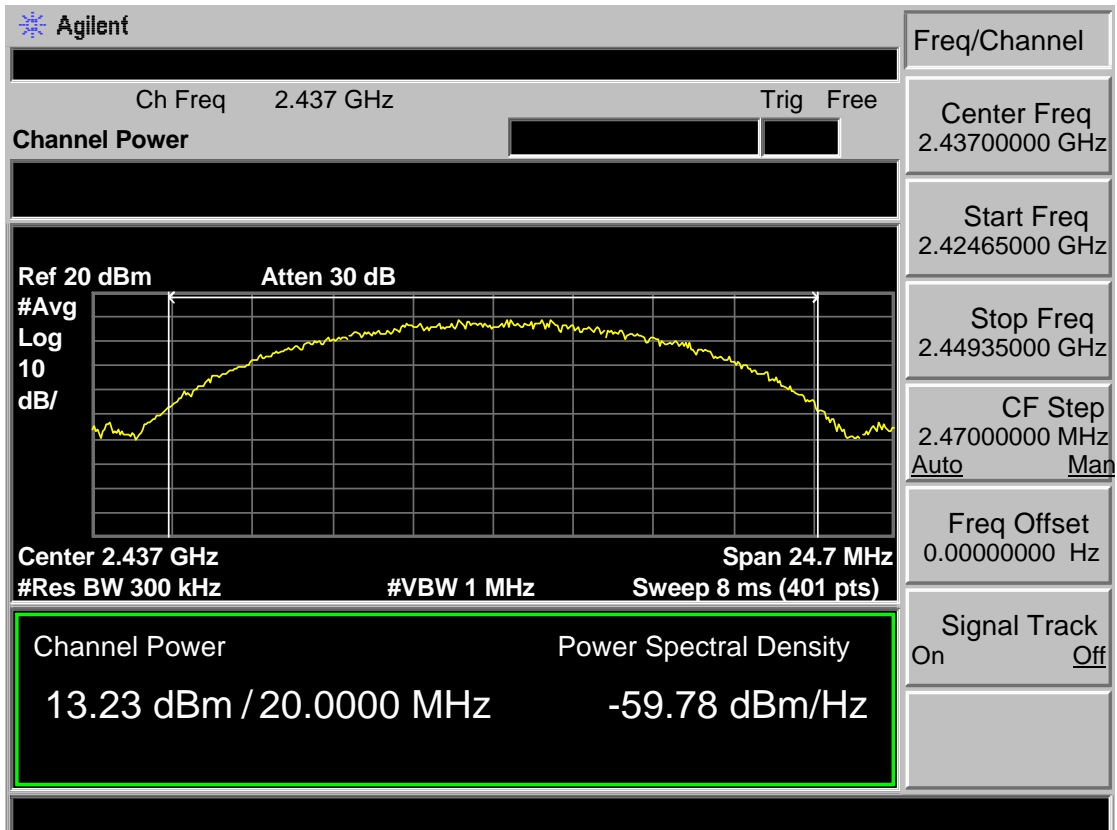
7.4 Test Data

Antenna 0


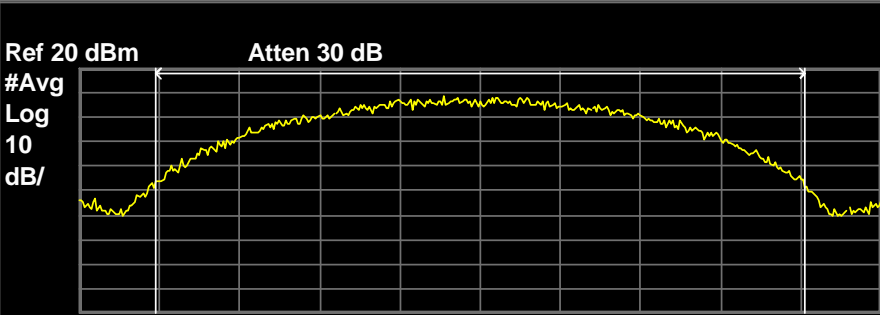
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



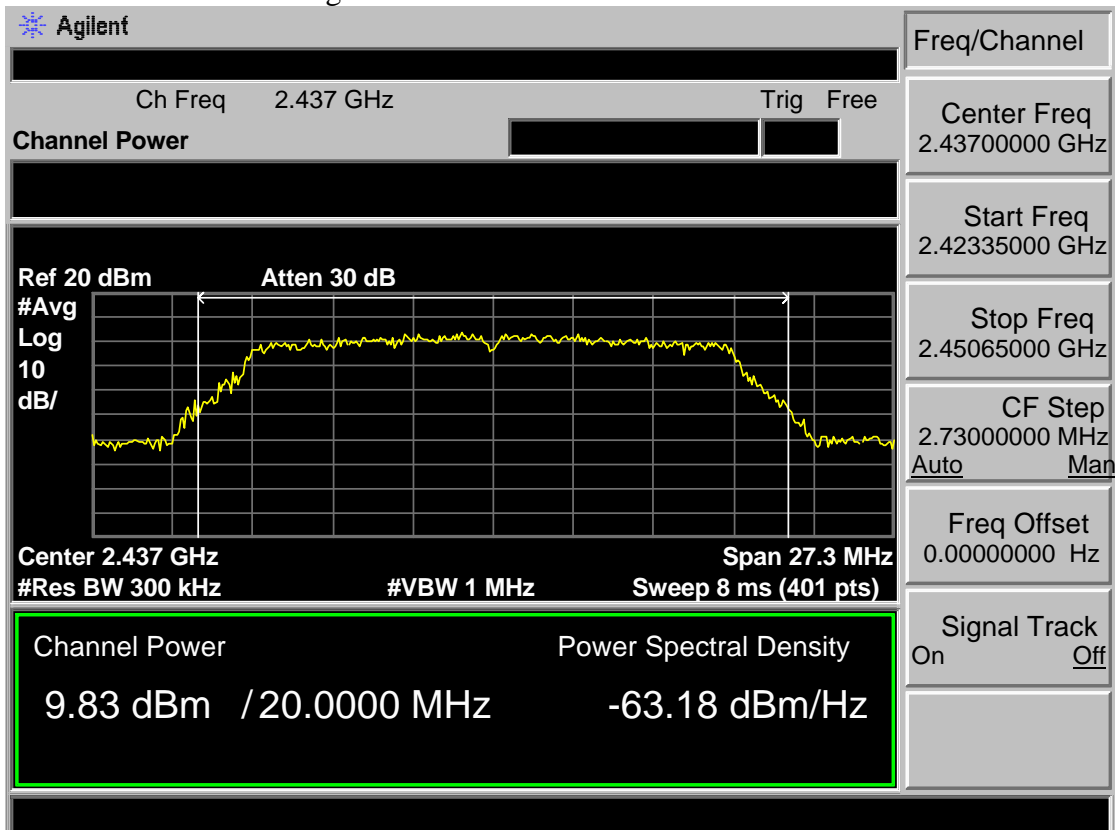
Test Mode: IEEE 802.11b 2462MHz

		Freq/Channel	
Ch Freq 2.462 GHz		Trig Free	
Channel Power		Center Freq 2.46200000 GHz	
Ref 20 dBm #Avg 10 Log dB/		Start Freq 2.44965000 GHz	
		Stop Freq 2.47435000 GHz	
Center 2.462 GHz		CF Step 2.47000000 MHz Auto Man	
#Res BW 300 kHz		Freq Offset 0.00000000 Hz	
#VBW 1 MHz		Signal Track On Off	
Sweep 8 ms (401 pts)		Channel Power 14.47 dBm / 20.0000 MHz	
Power Spectral Density -58.54 dBm/Hz		(Empty field)	

Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz



Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Channel Power

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 27.4 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power Power Spectral Density

10.72 dBm / 20.0000 MHz -62.29 dBm/Hz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44830000 GHz

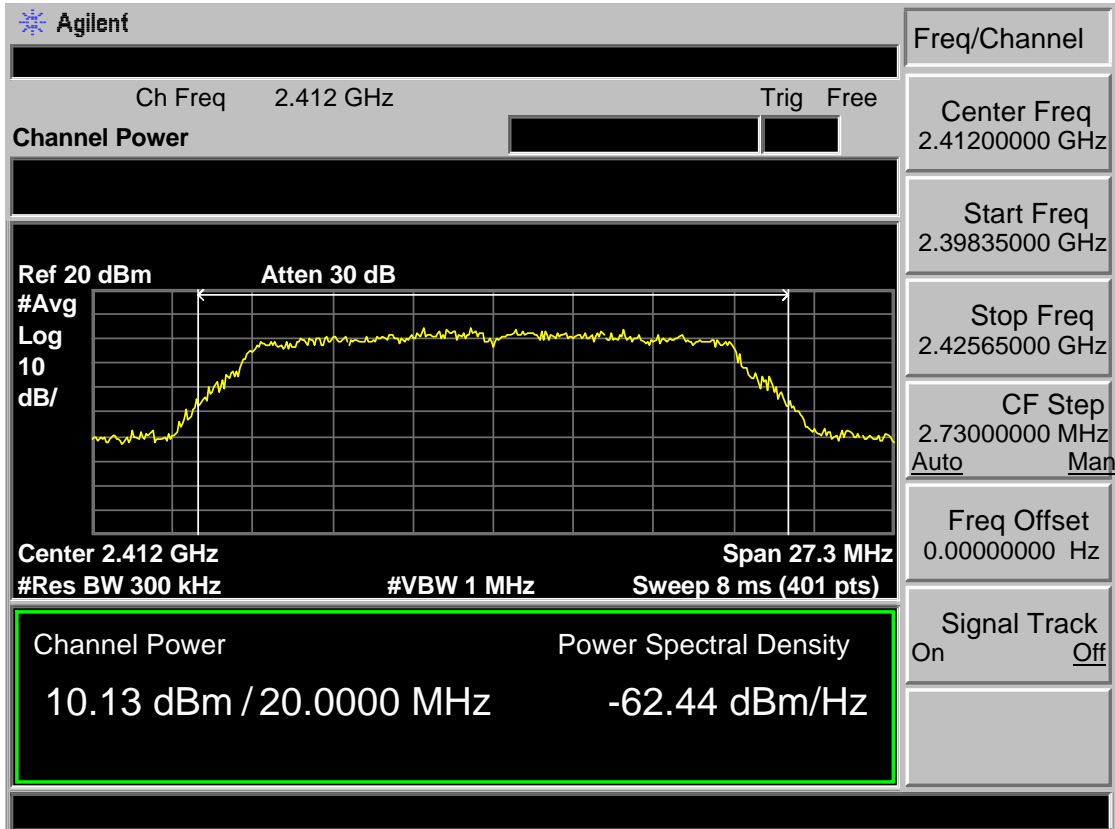
Stop Freq 2.47570000 GHz

CF Step 2.74000000 MHz
Auto Man

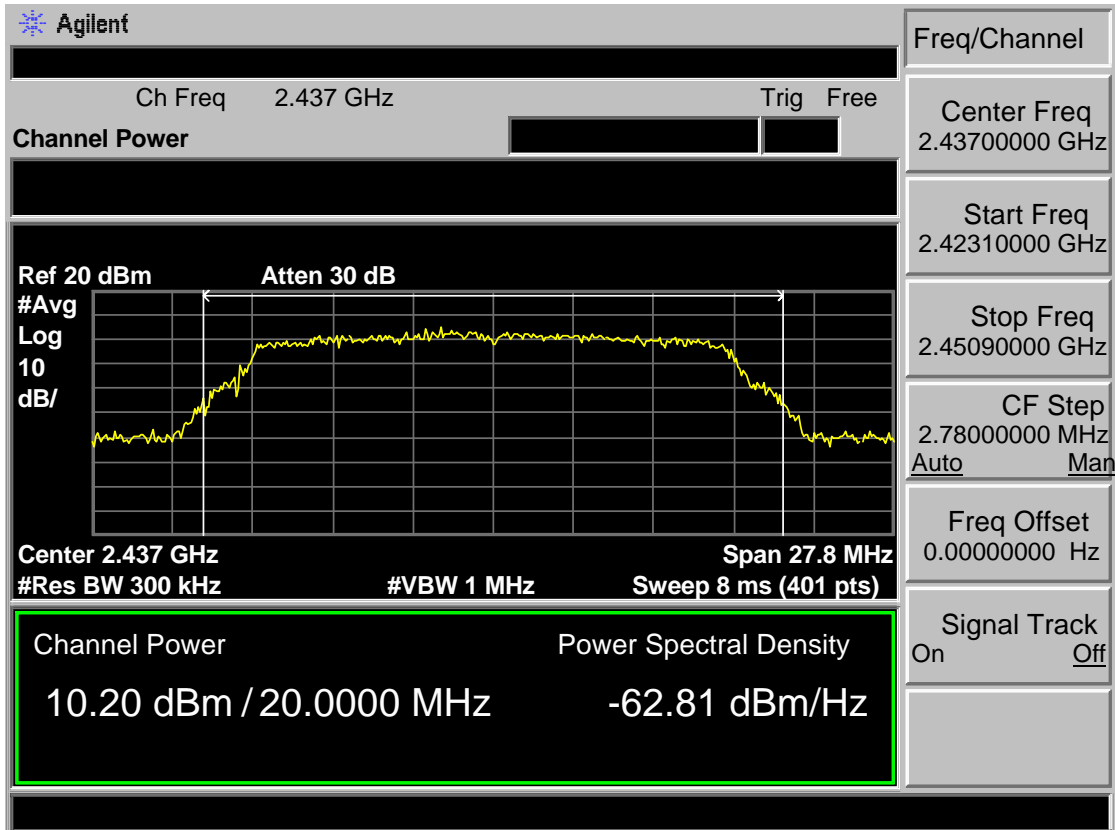
Freq Offset 0.00000000 Hz

Signal Track On Off

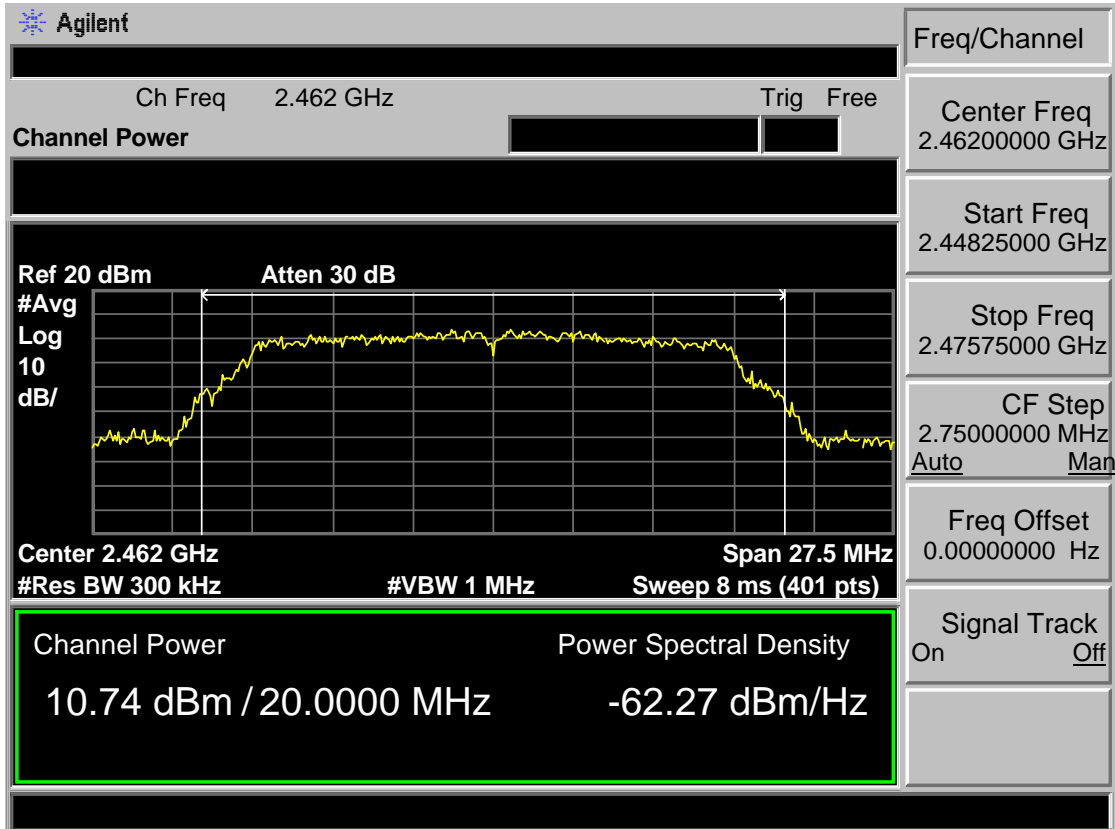
Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz



Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz

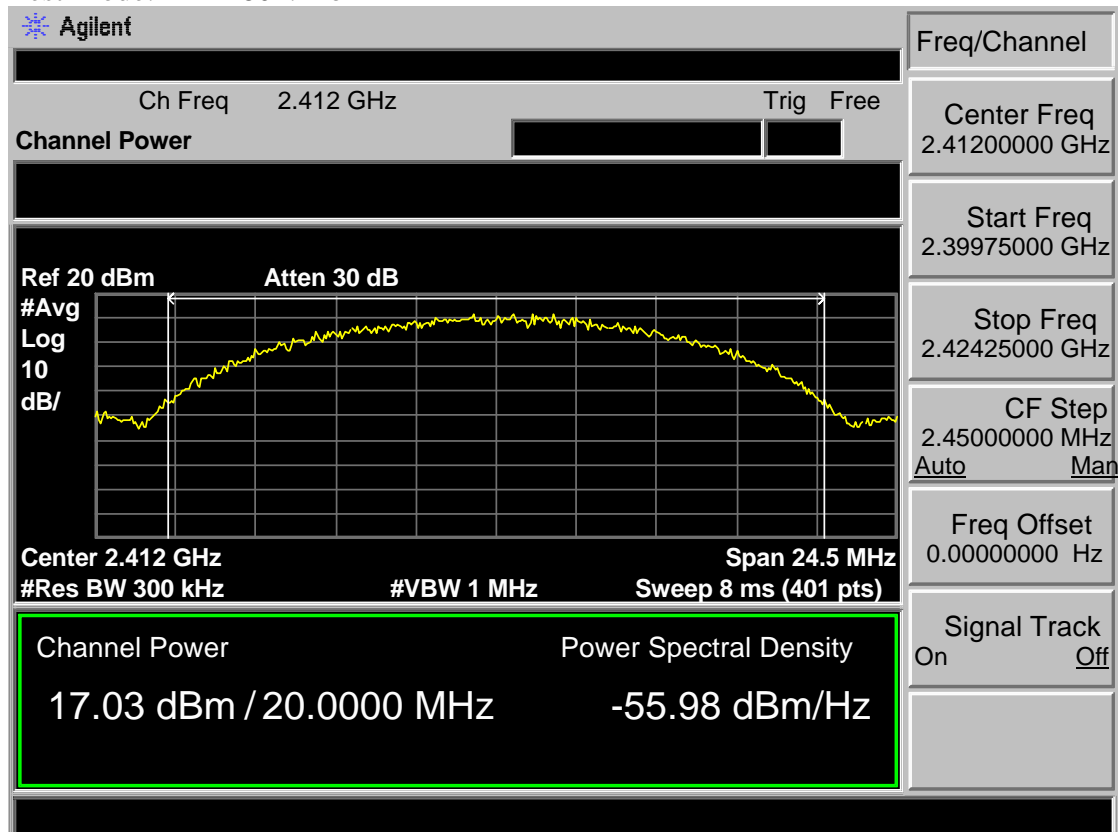


Test Mode: IEEE 802.11n HT40 2452MHz

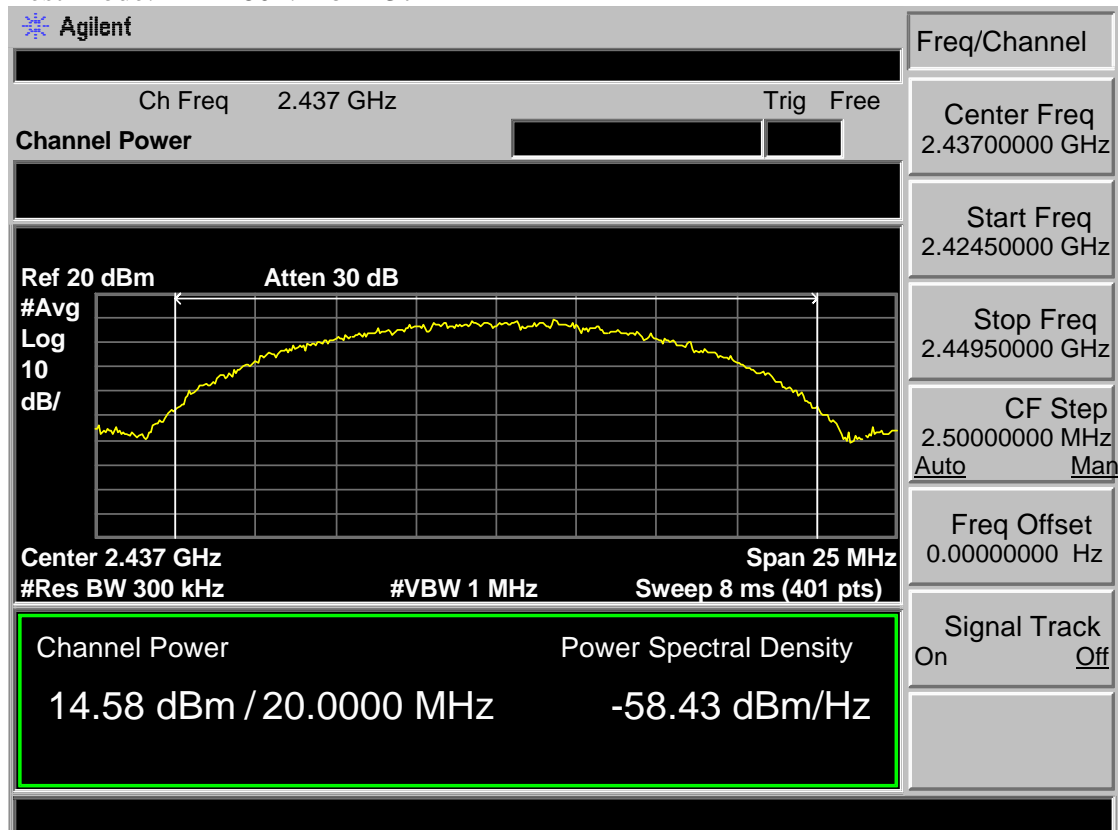


Antenna 1

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Channel Power

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 24.6 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power Power Spectral Density

14.66 dBm / 20.0000 MHz -58.35 dBm/Hz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44970000 GHz

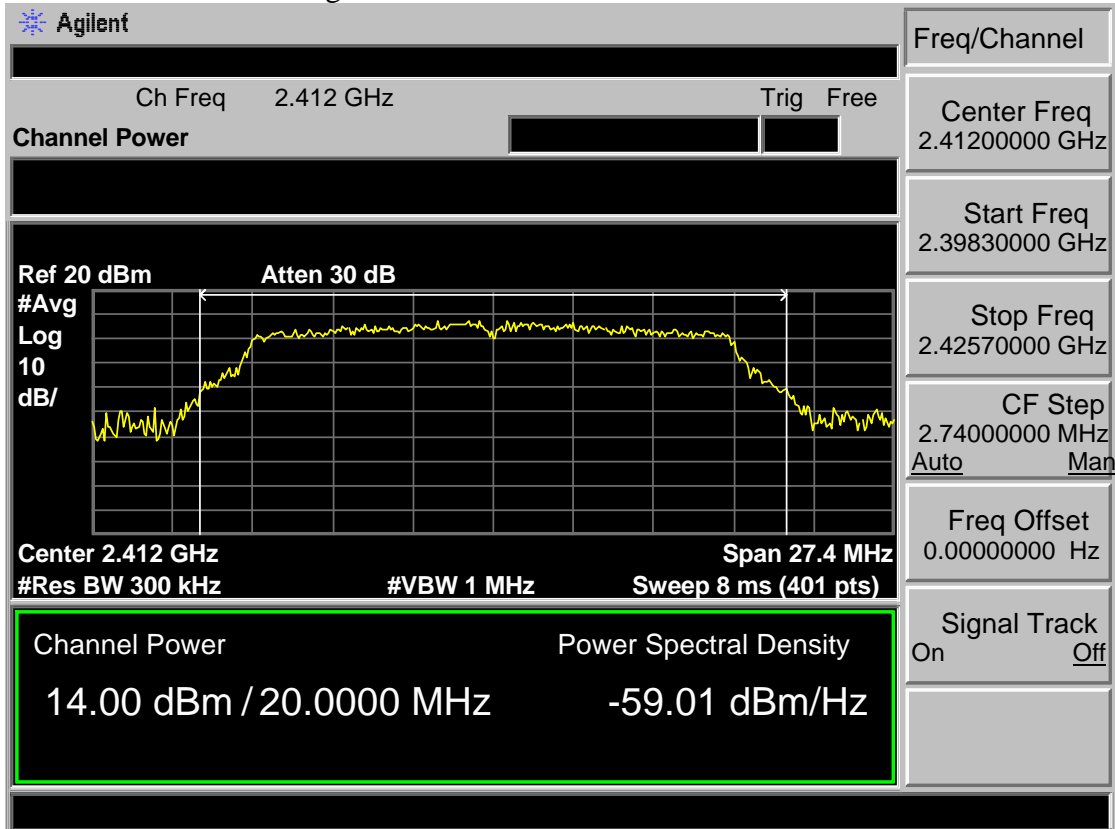
Stop Freq 2.47430000 GHz

CF Step 2.46000000 MHz
Auto Man

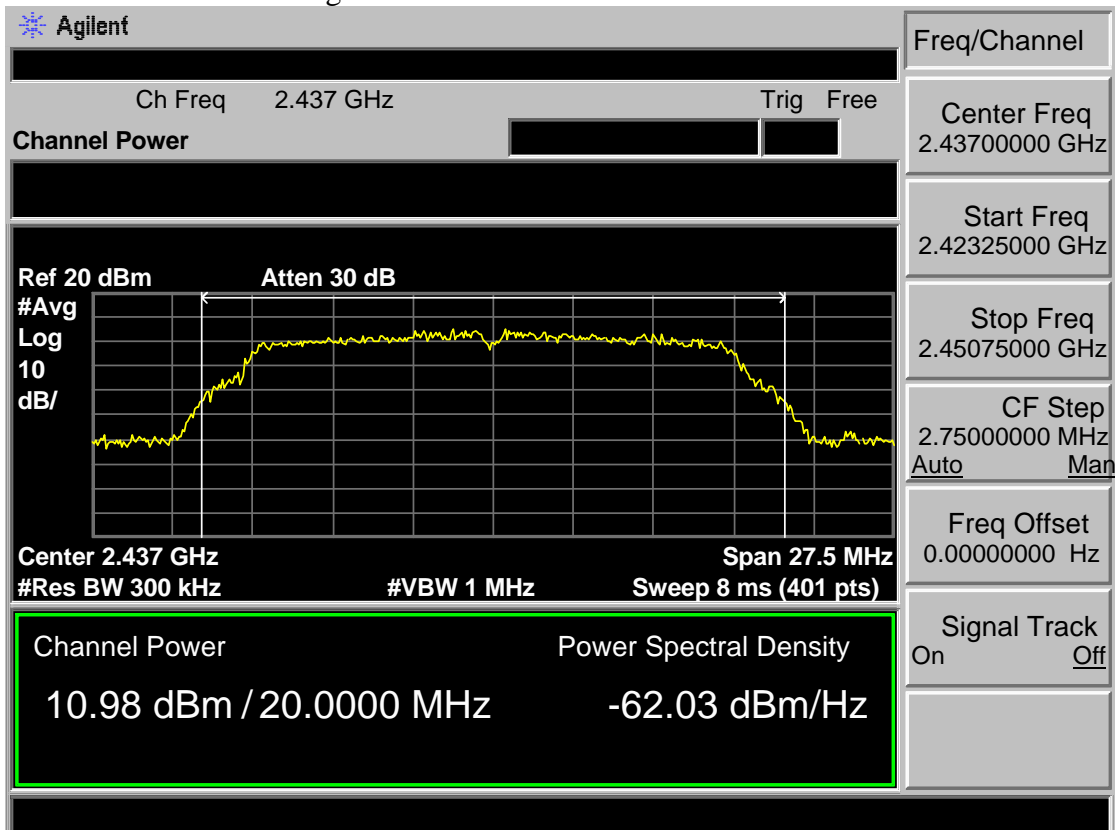
Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2412MHz



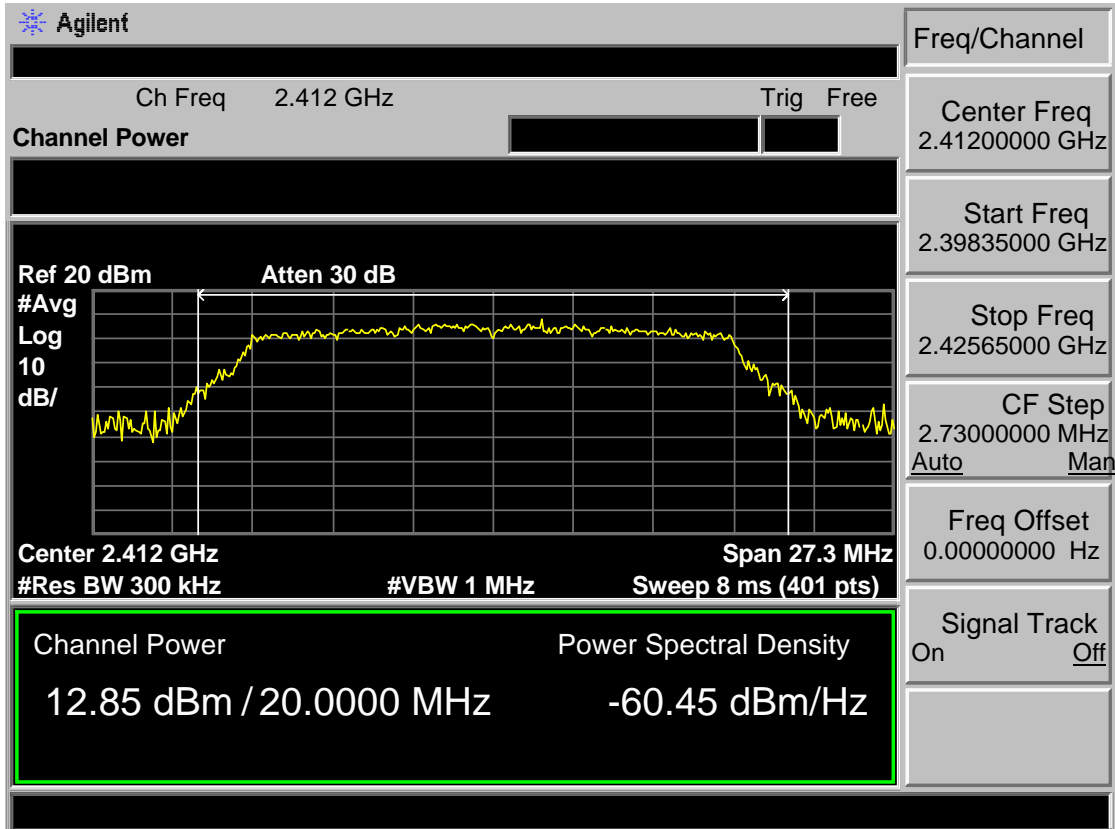
Test Mode: IEEE 802.11g 2437MHz



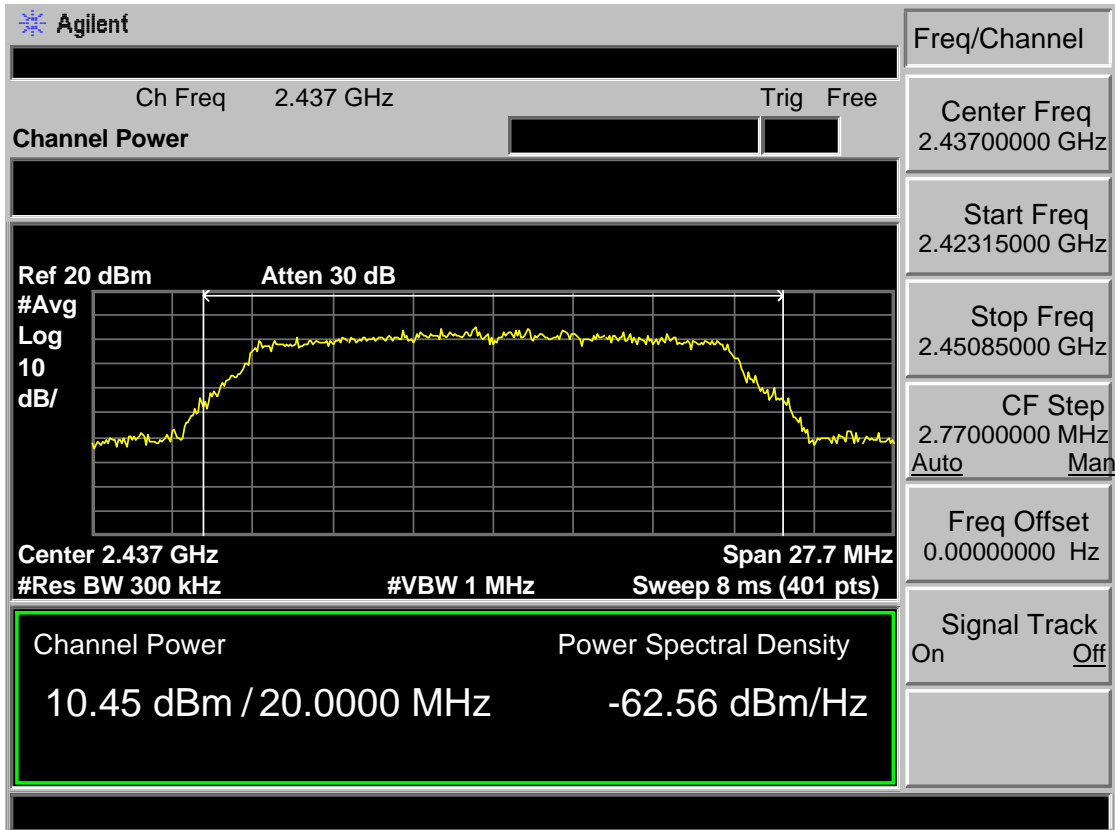
Test Mode: IEEE 802.11g 2462MHz



Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Channel Power

Center 2.462 GHz Span 28 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

10.53 dBm / 20.0000 MHz

Power Spectral Density

-62.48 dBm/Hz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44800000 GHz

Stop Freq 2.47600000 GHz

CF Step 2.80000000 MHz
Auto Man

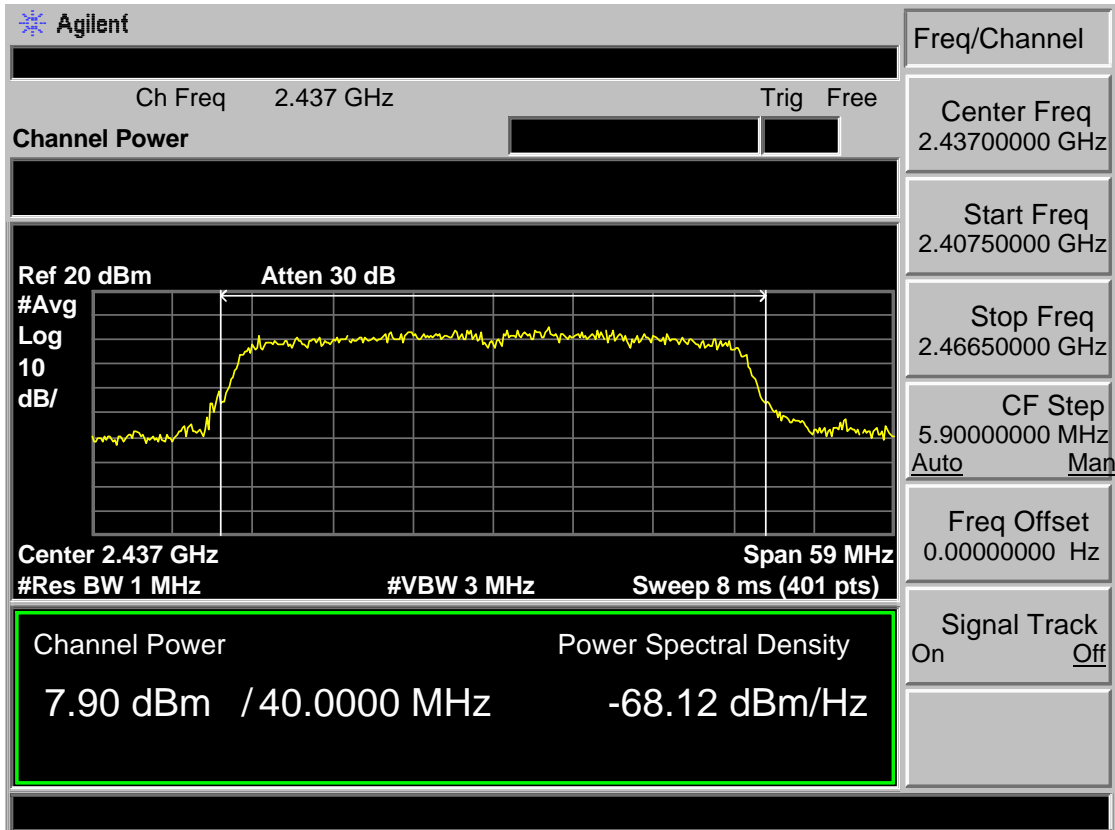
Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



8 POWER SPECTRAL DENSITY TEST

8.1 Limit

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

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

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

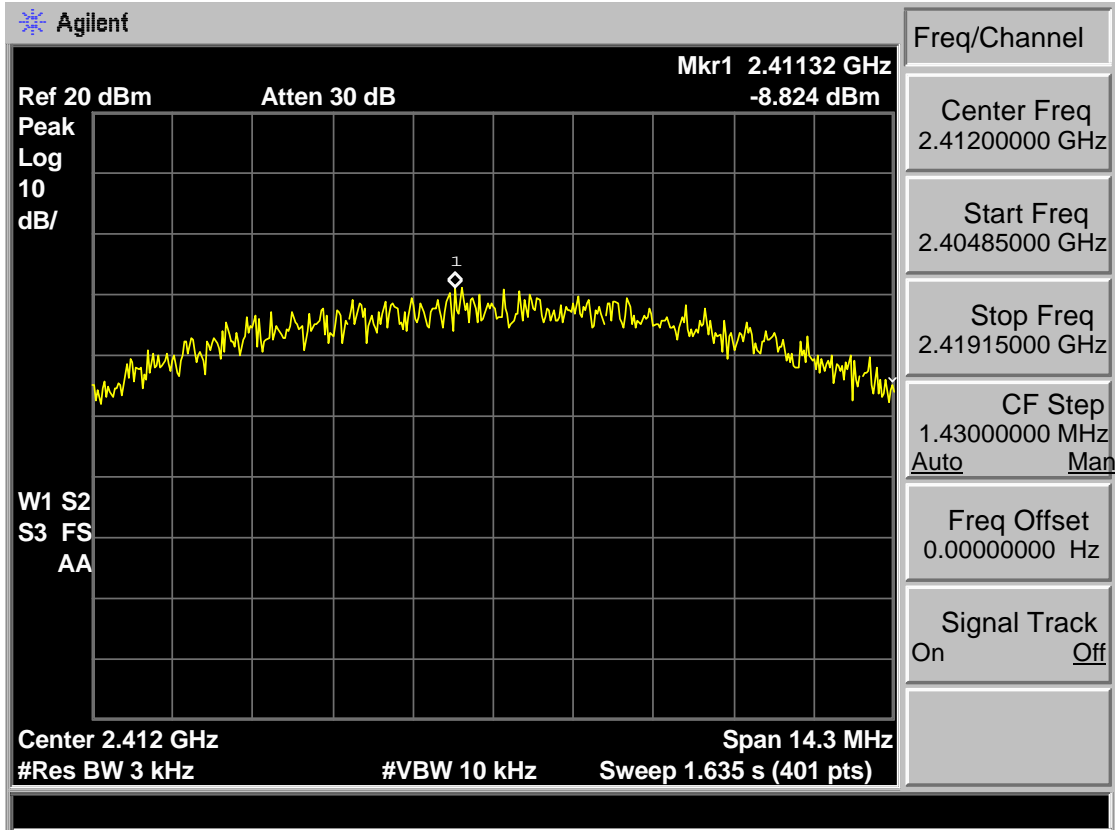
8.3 Test Result

EUT: 55 inch DLED SMART TV					
M/N: E4SFT5517					
Test date: 2018.01.24		Test site: RF Site		Tested by: Seven	
Pass					
Test Mode	CH	Power density (dBm/3kHz)			Limit (dBm/3kHz)
		Ant 0	Ant 1	Total	
IEEE 802.11 b	CH1	-8.824	-7.755	/	8
	CH6	-8.389	-7.516	/	8
	CH11	-7.881	-7.853	/	8
IEEE 802.11 g	CH1	-13.730	-10.820	/	8
	CH6	-12.360	-13.010	/	8
	CH11	-12.170	-12.820	/	8
IEEE 802.11 n HT 20	CH1	-12.560	-11.780	-9.142	8
	CH6	-13.630	-13.060	-10.325	8
	CH11	-13.890	-12.790	-10.295	8
IEEE 802.11 n HT 40	CH3	-15.800	-13.420	-11.439	8
	CH6	-14.240	-16.550	-12.233	8
	CH9	-16.980	-15.980	-13.441	8
Conclusion : PASS					

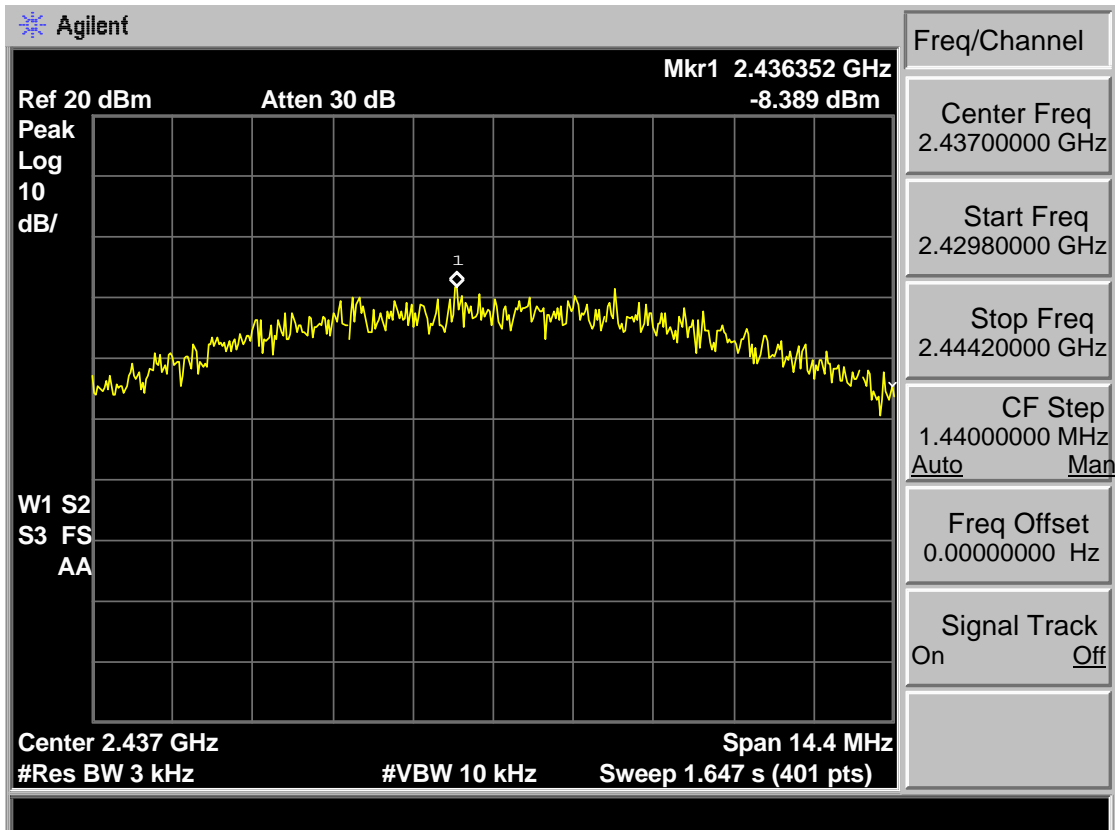
8.4 Test Data

Antenna 0

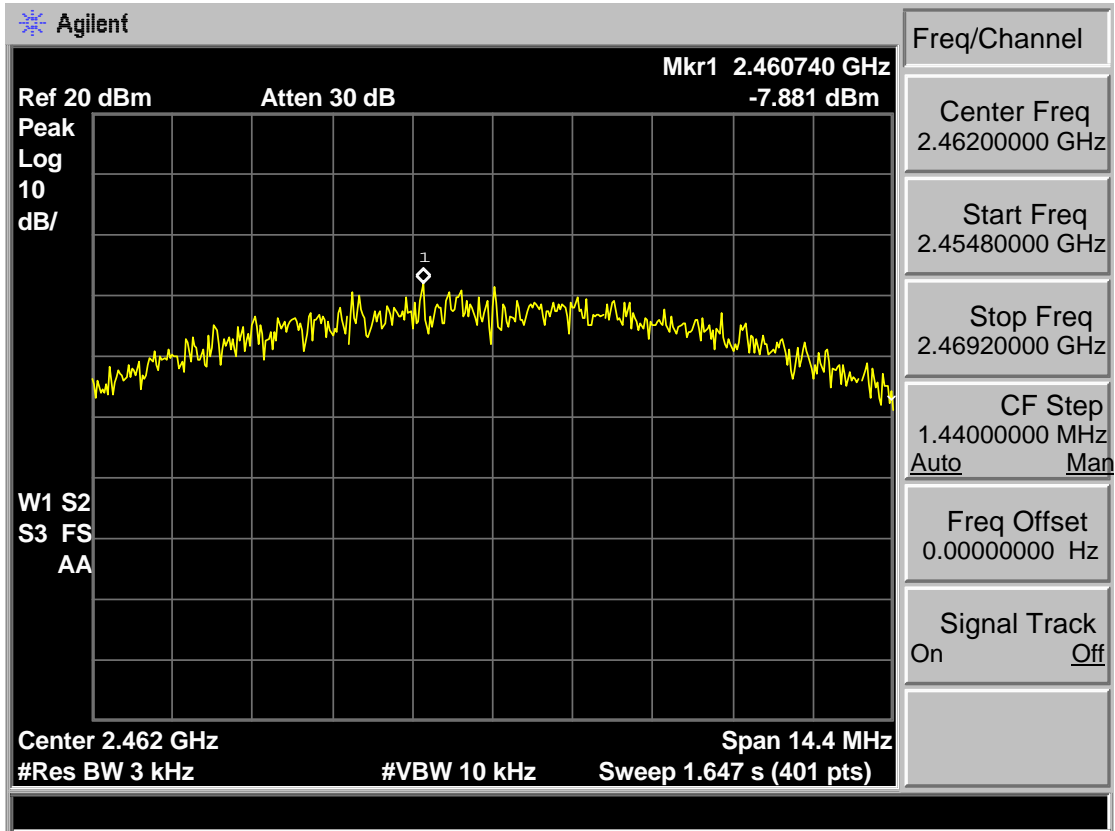
Test Mode: IEEE 802.11b 2412MHz



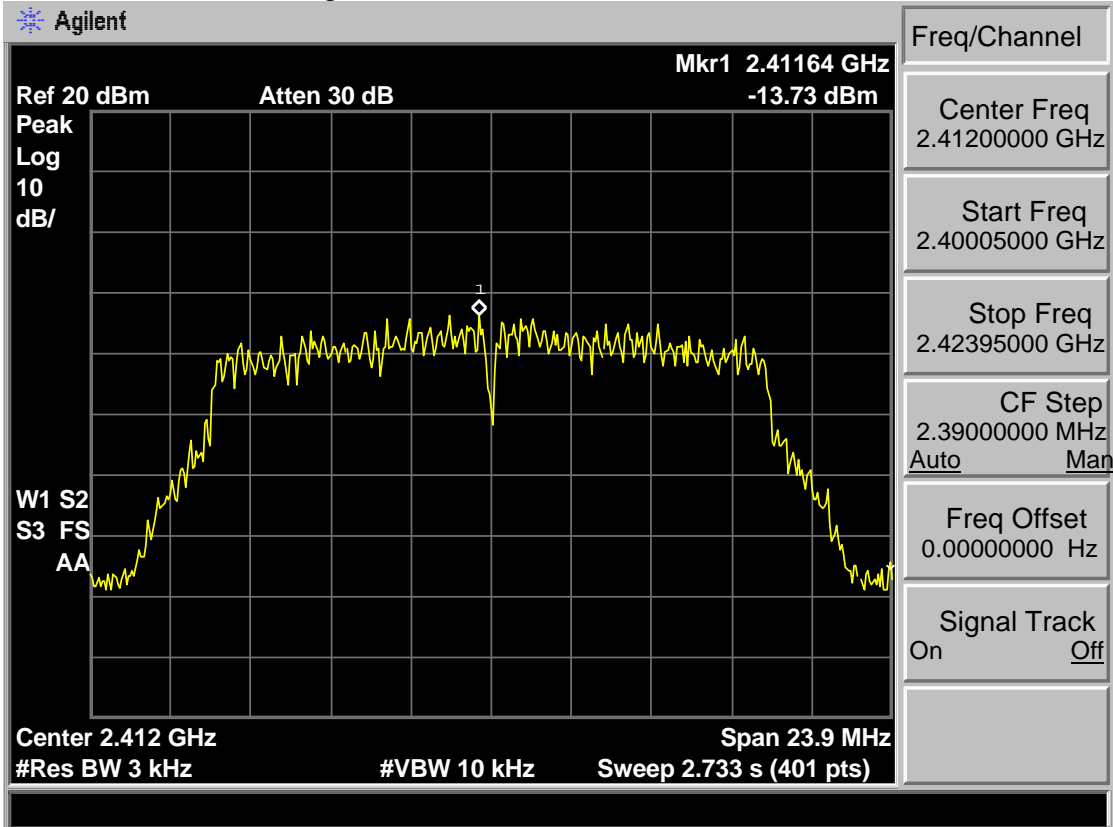
Test Mode: IEEE 802.11b 2437MHz



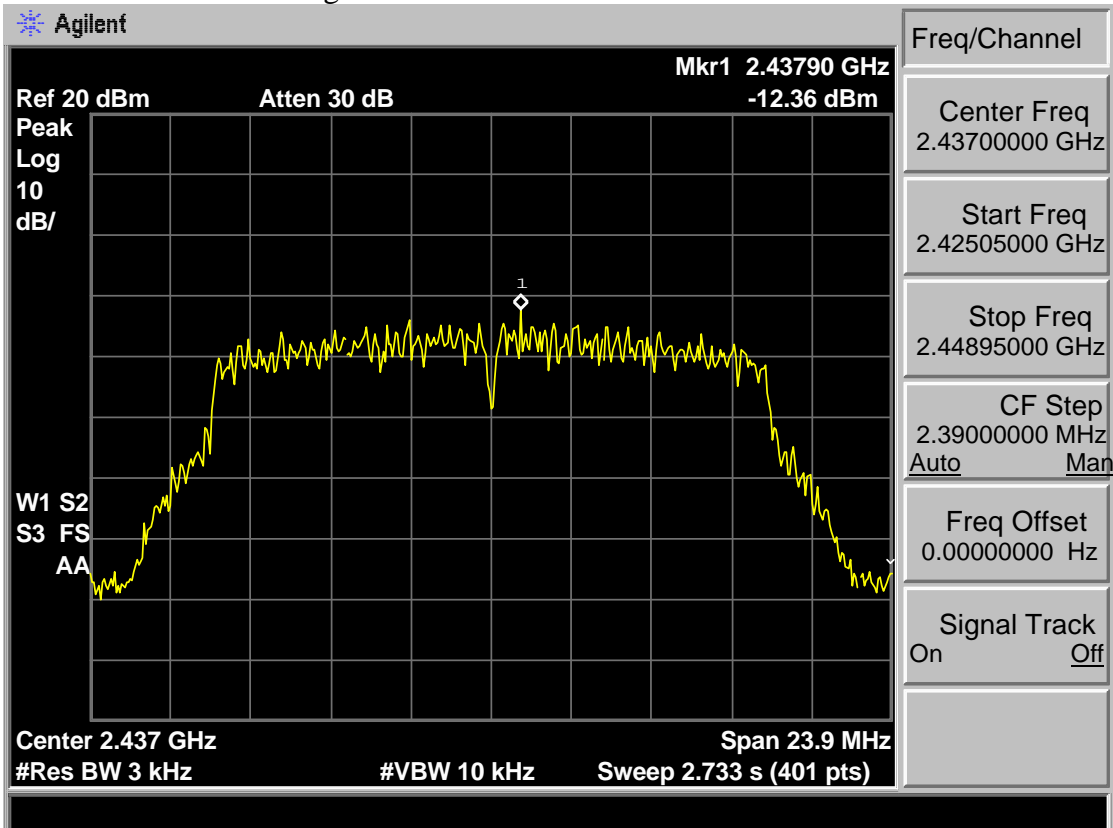
Test Mode: IEEE 802.11b 2462MHz



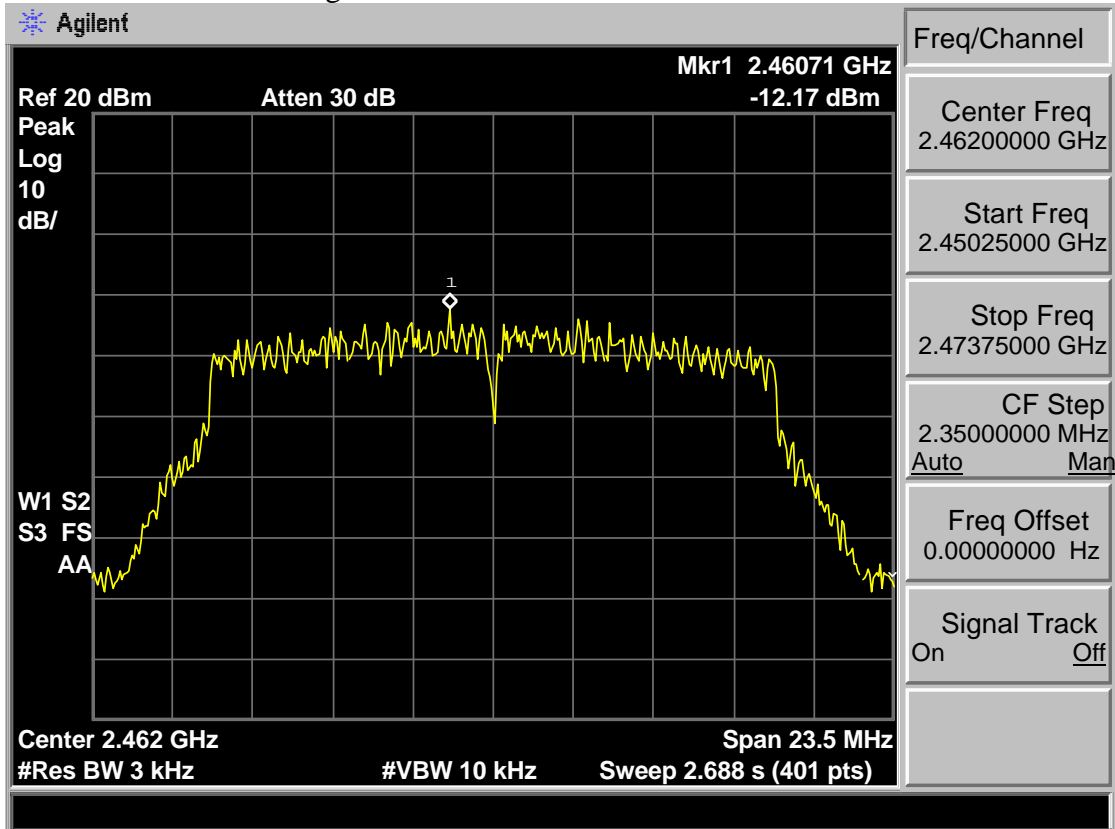
Test Mode: IEEE 802.11g 2412MHz



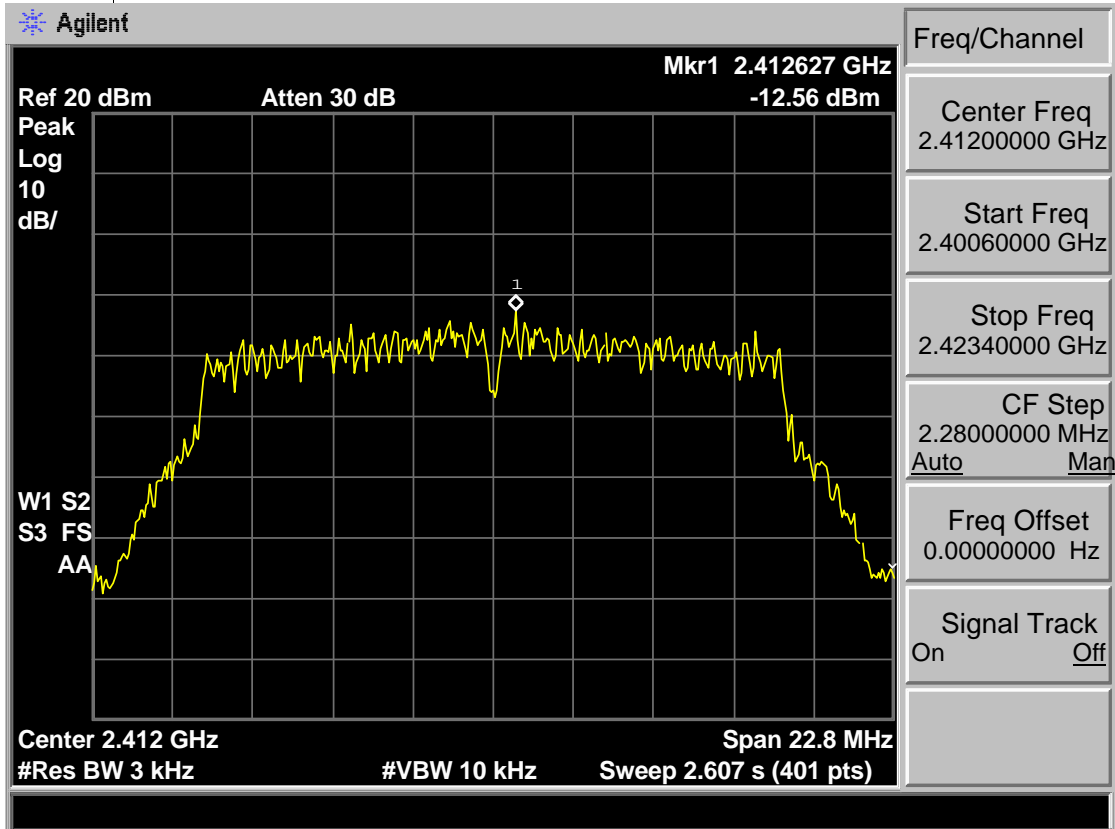
Test Mode: IEEE 802.11g 2437MHz



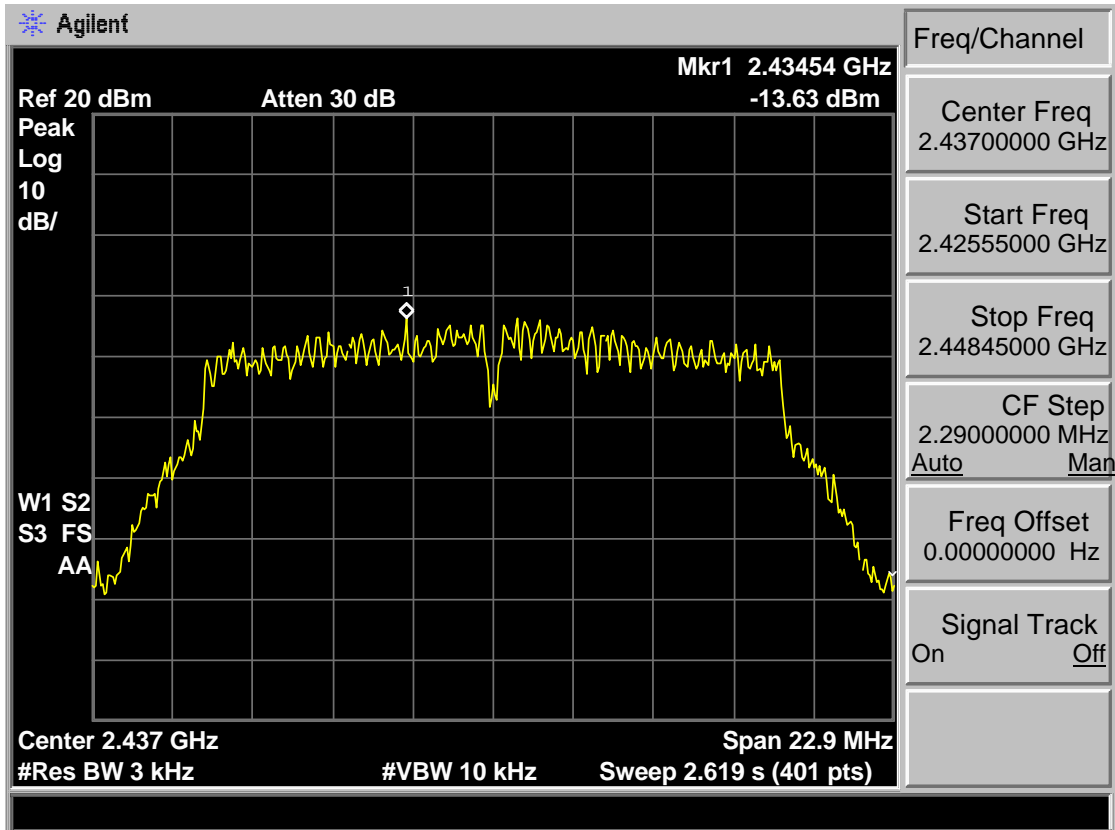
Test Mode: IEEE 802.11g 2462MHz



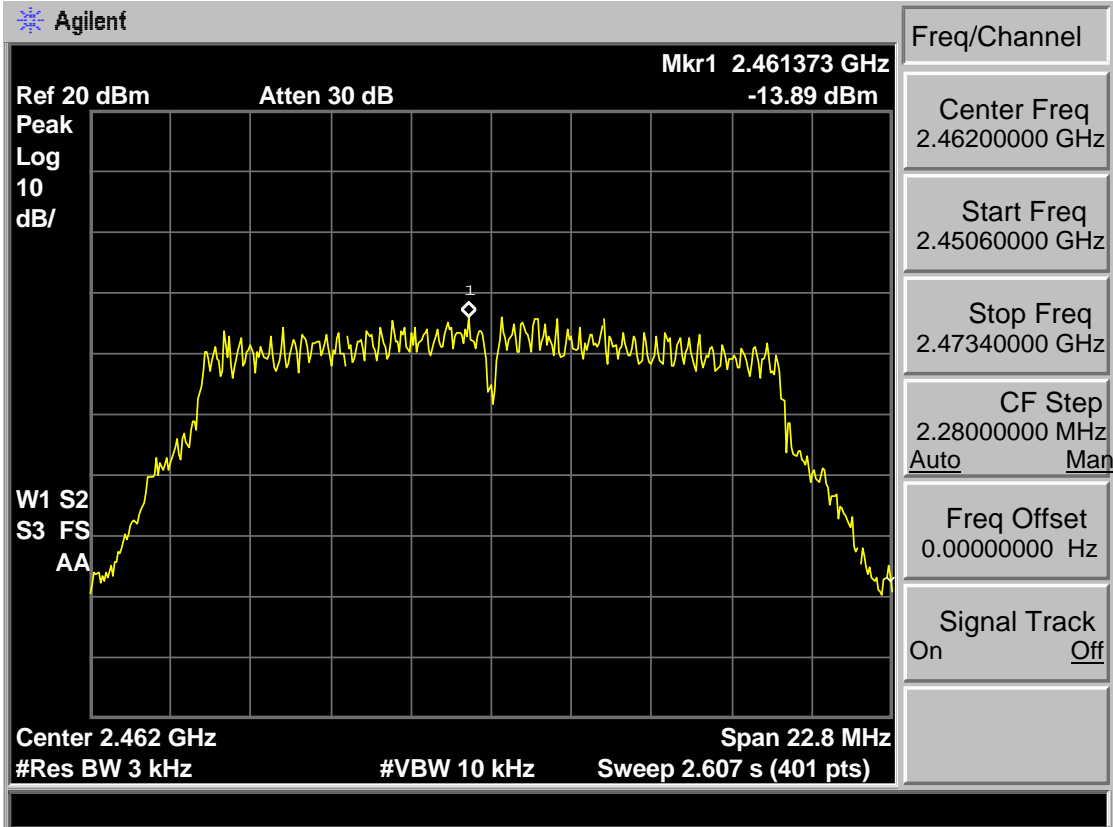
Test Mode: IEEE 802.11n HT20 2412MHz



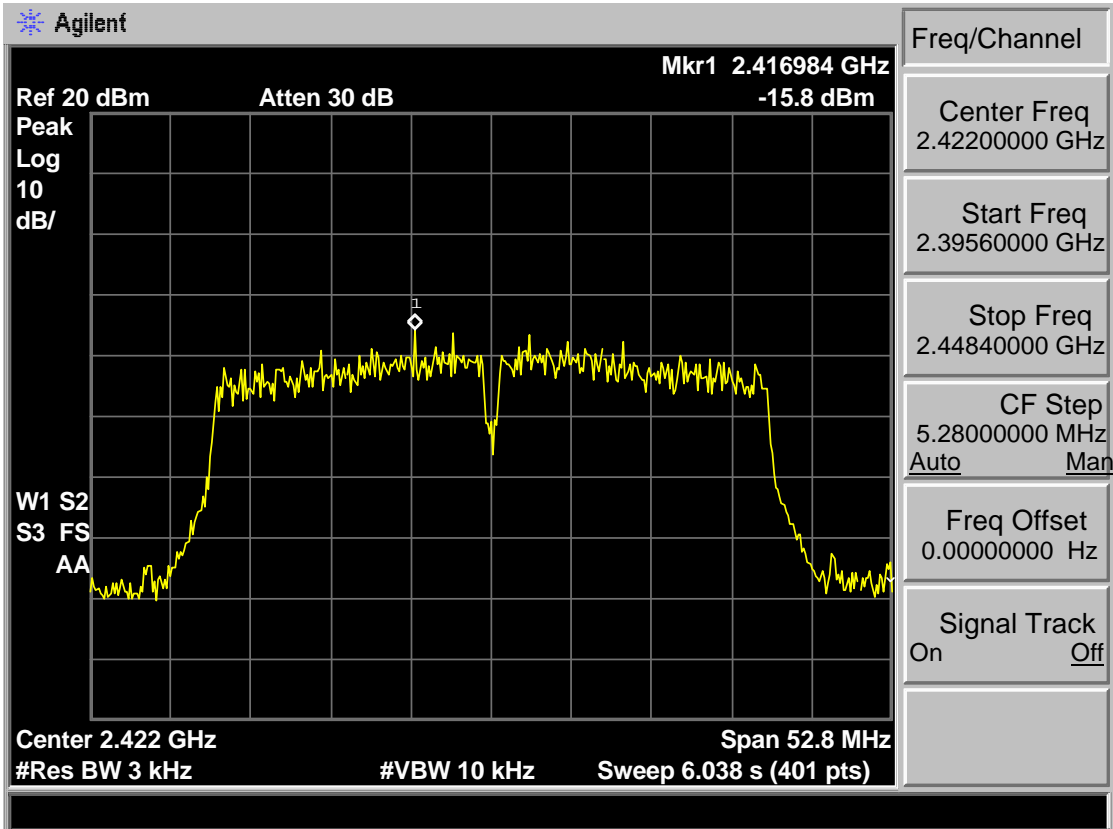
Test Mode: IEEE 802.11n HT20 2437MHz



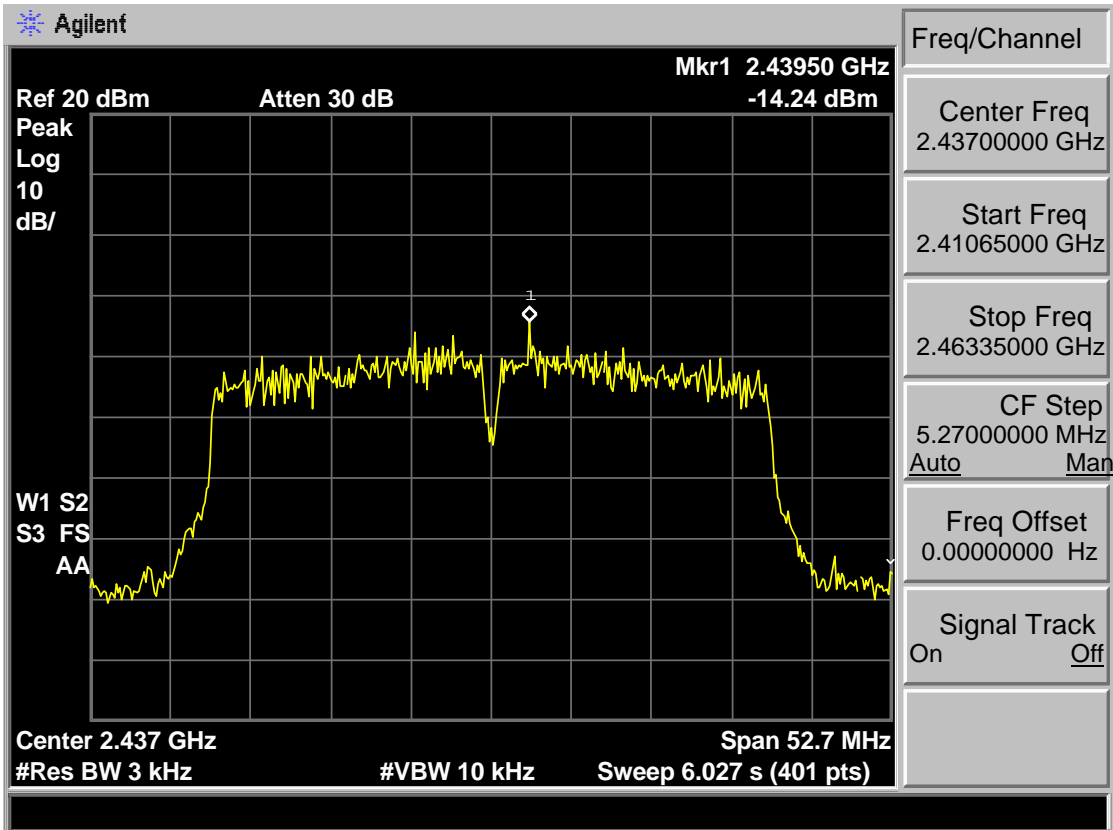
Test Mode: IEEE 802.11n HT20 2462MHz



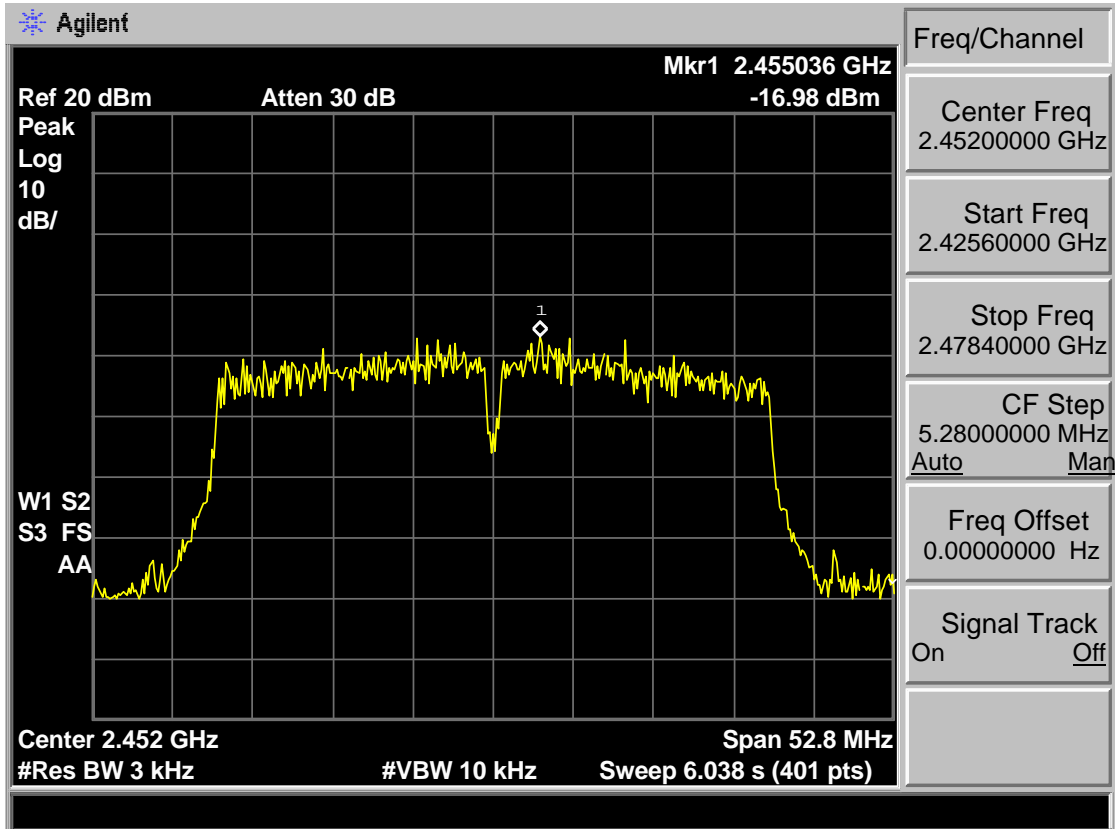
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz

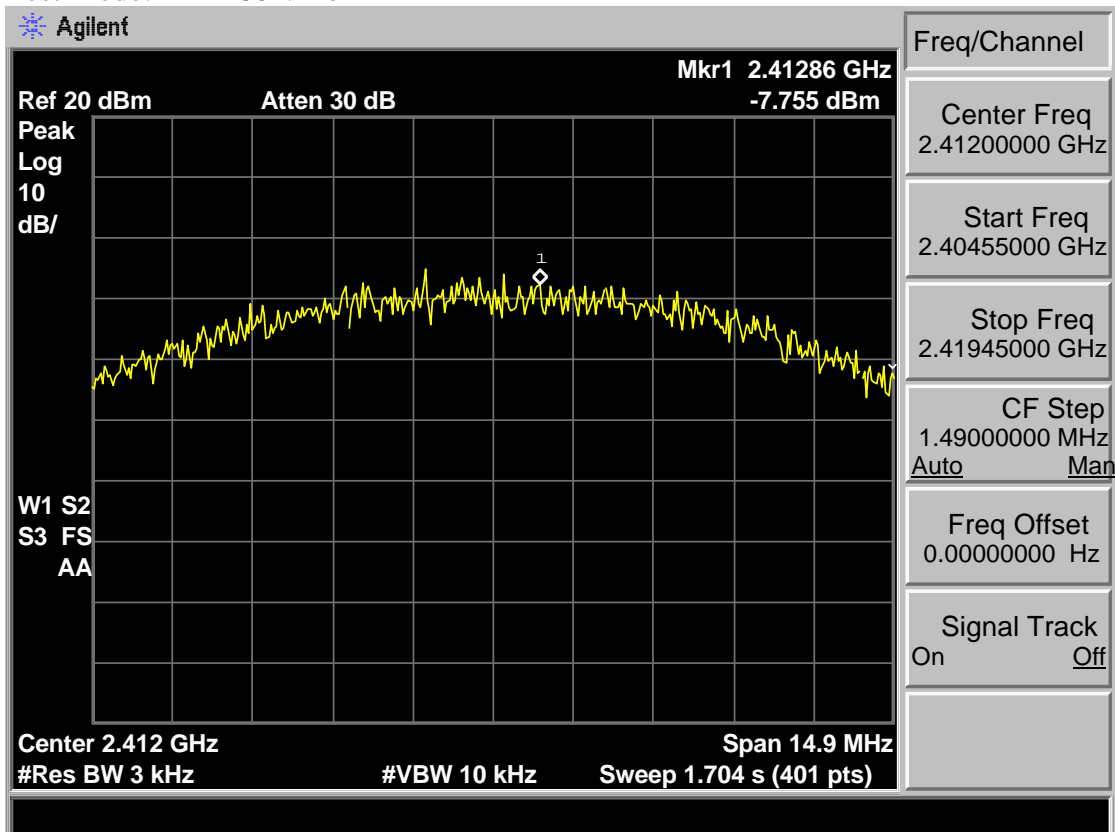


Test Mode: IEEE 802.11n HT40 2452MHz

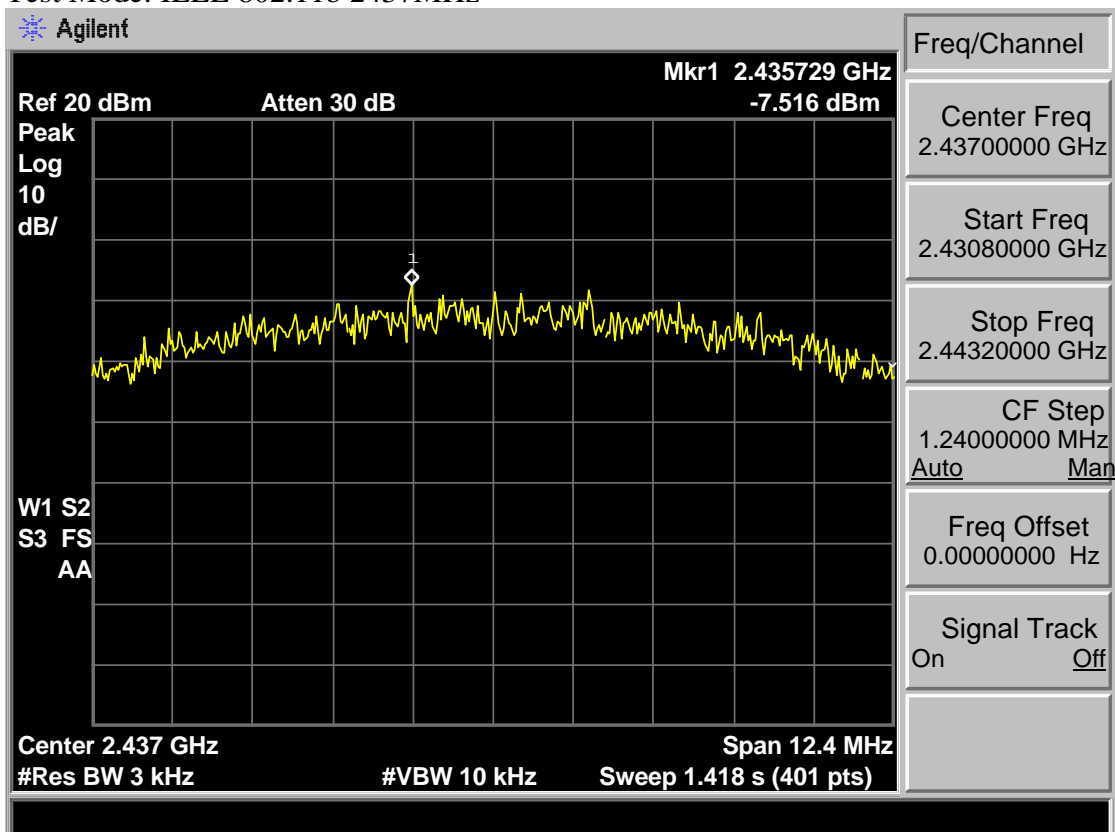


Antenna 1

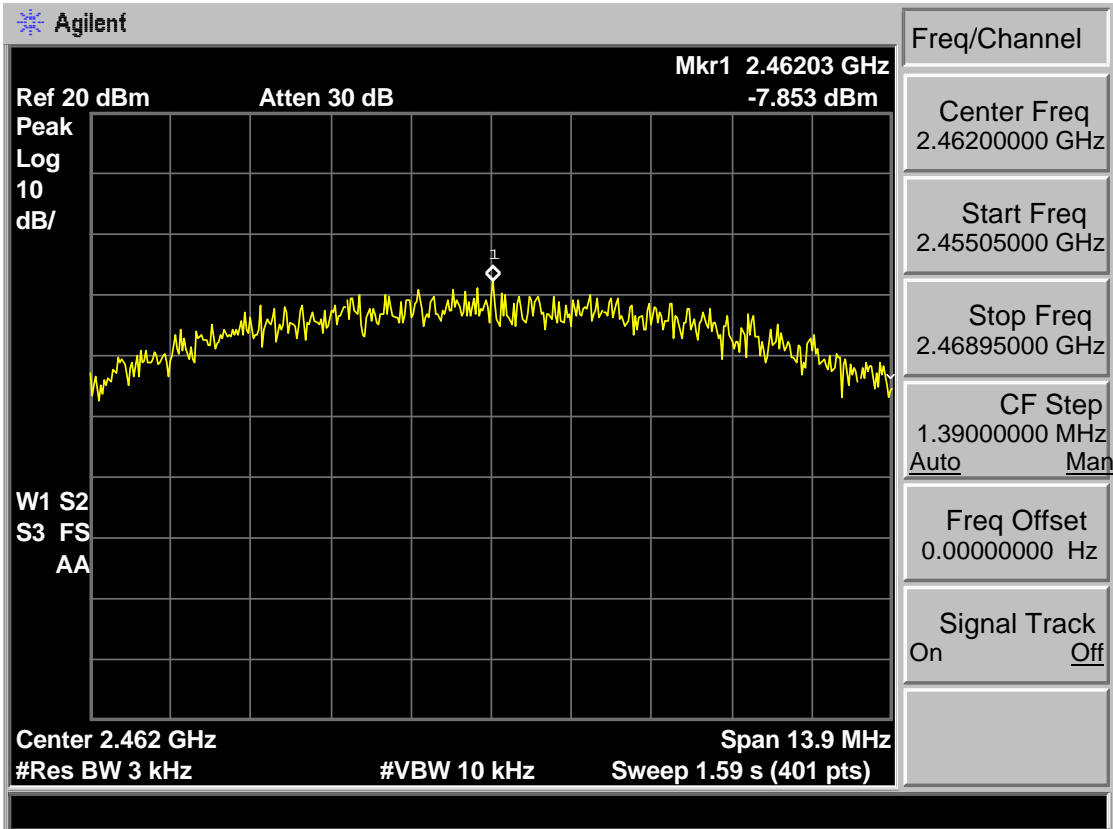
Test Mode: IEEE 802.11b 2412MHz



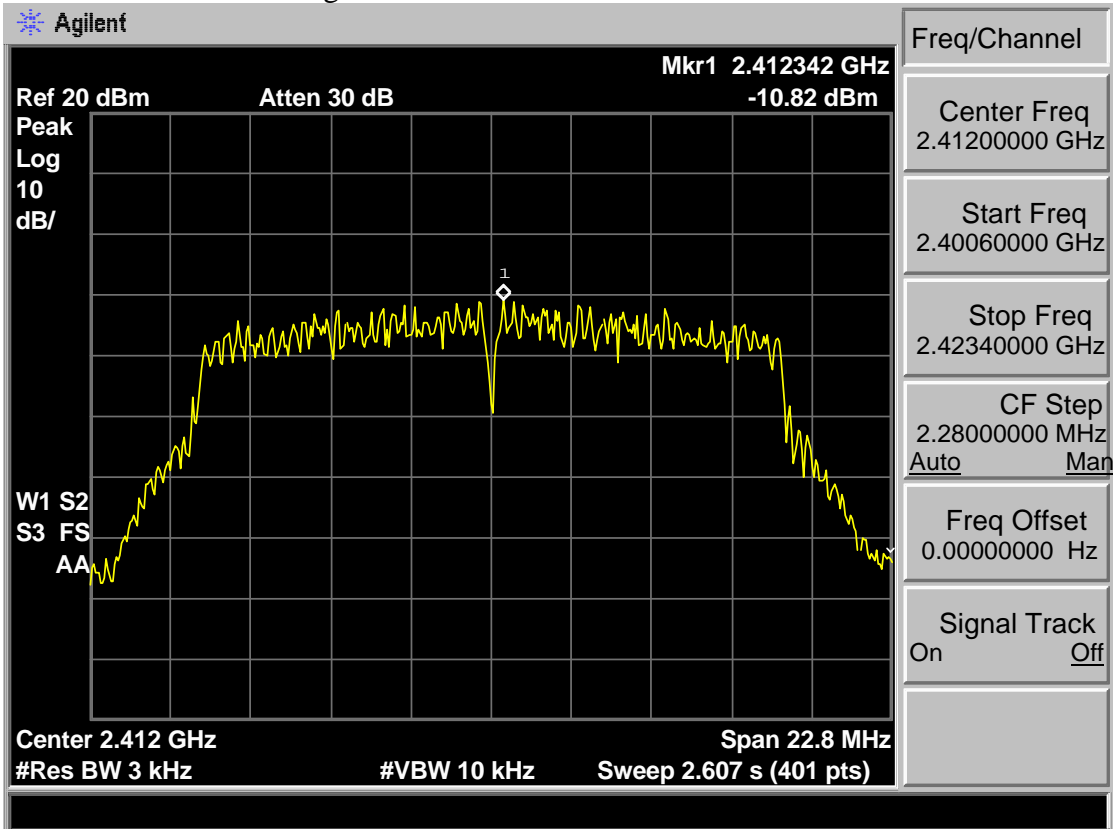
Test Mode: IEEE 802.11b 2437MHz



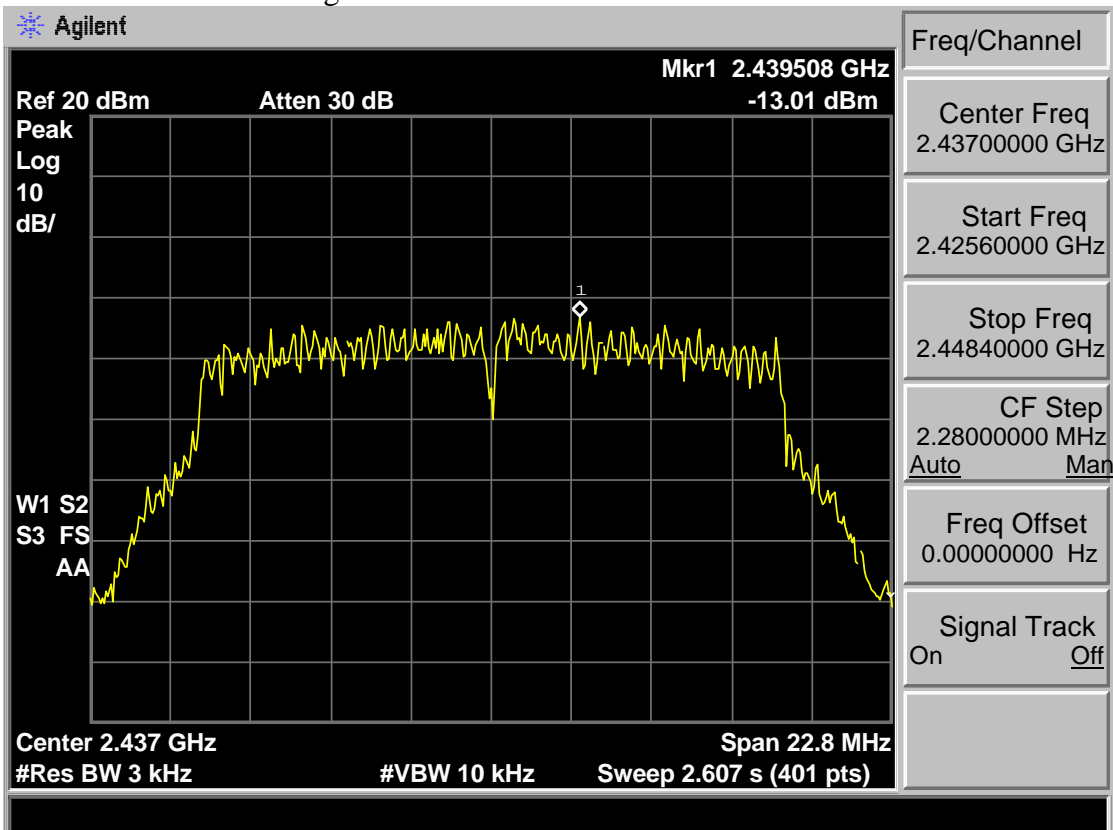
Test Mode: IEEE 802.11b 2462MHz



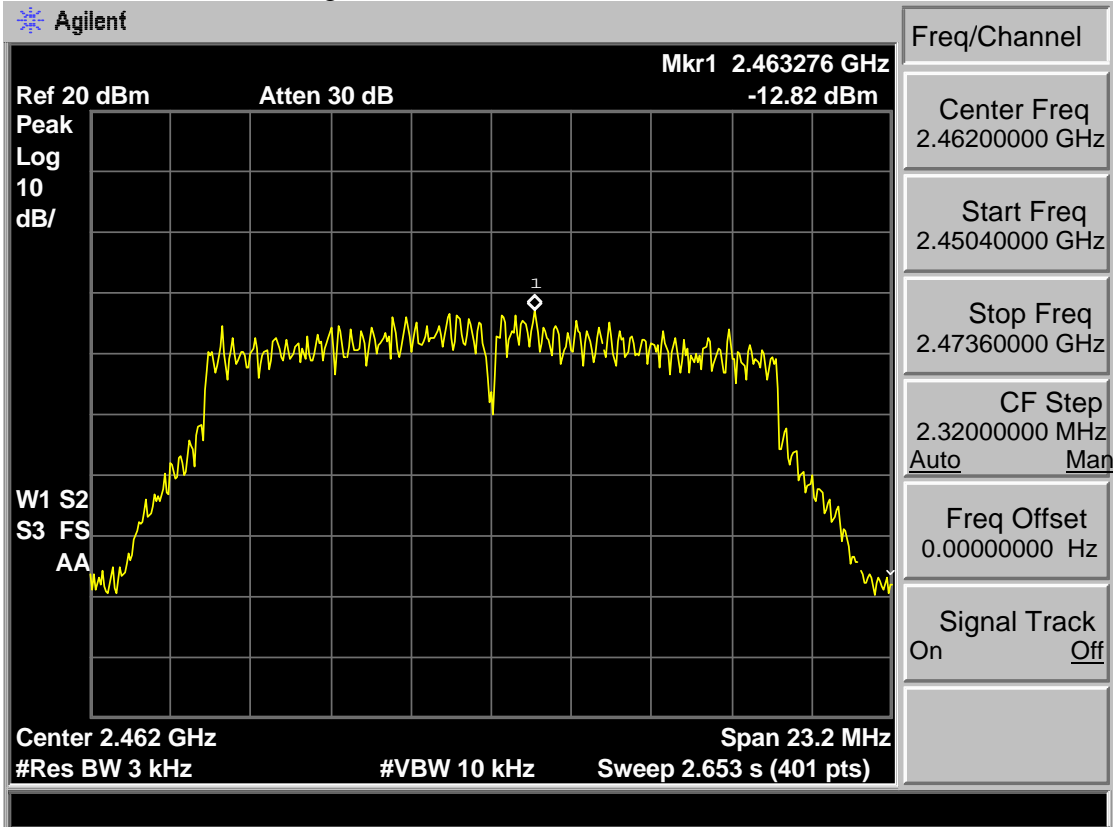
Test Mode: IEEE 802.11g 2412MHz



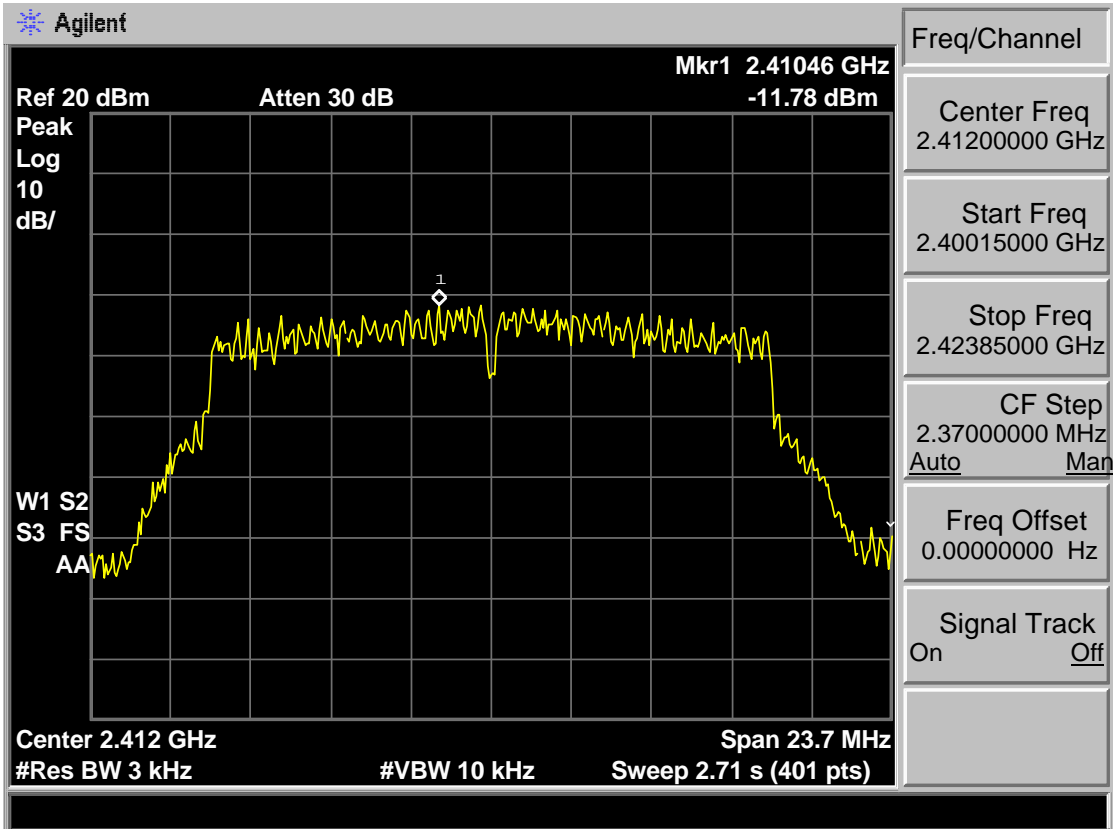
Test Mode: IEEE 802.11g 2437MHz



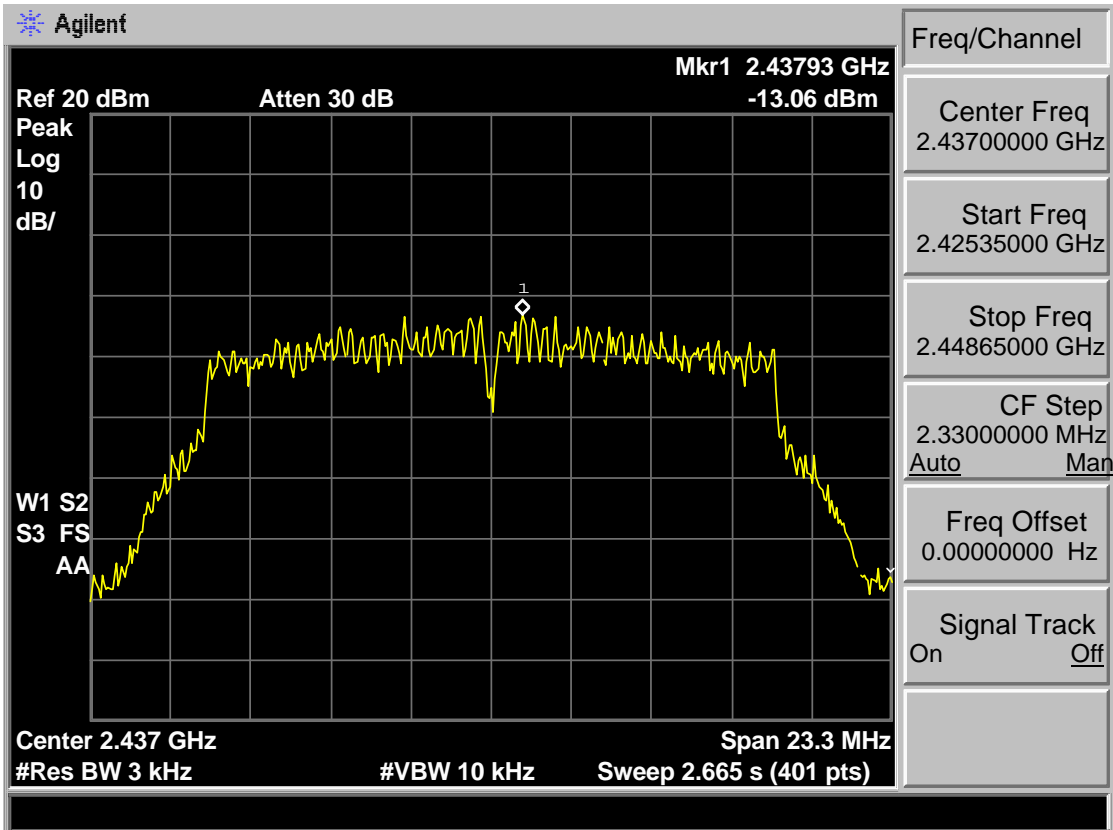
Test Mode: IEEE 802.11g 2462MHz



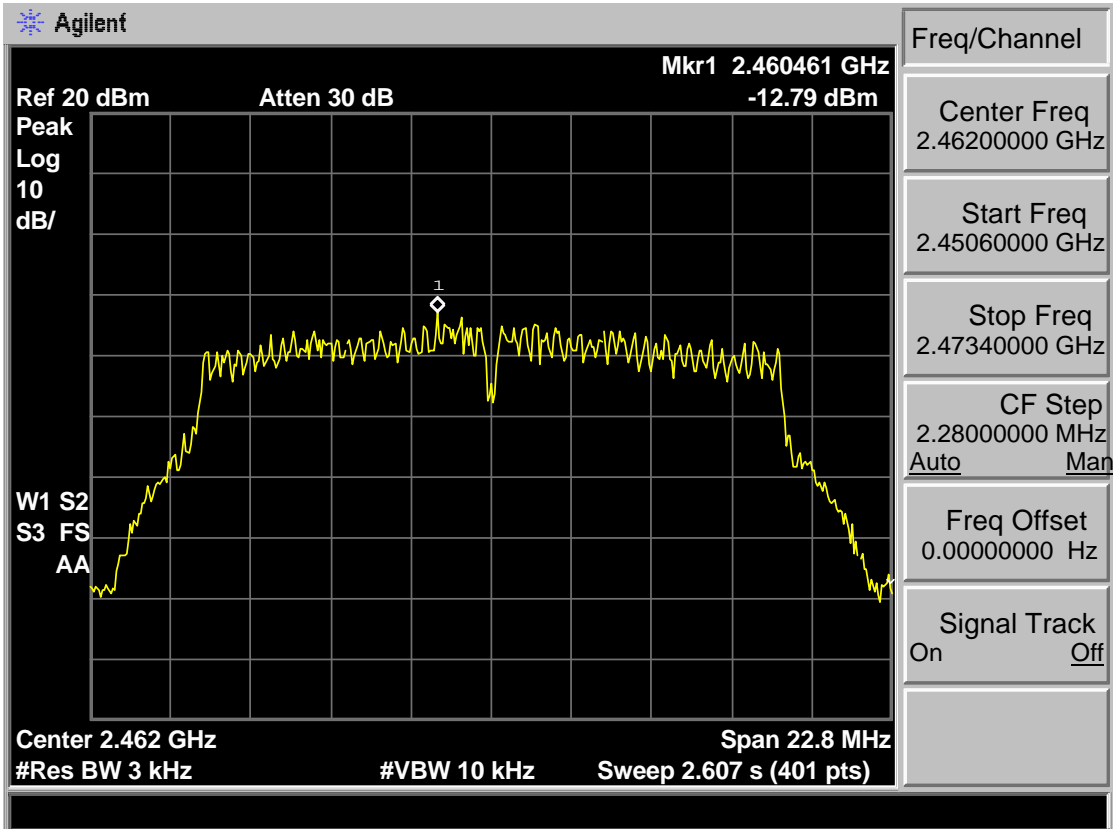
Test Mode: IEEE 802.11n HT20 2412MHz



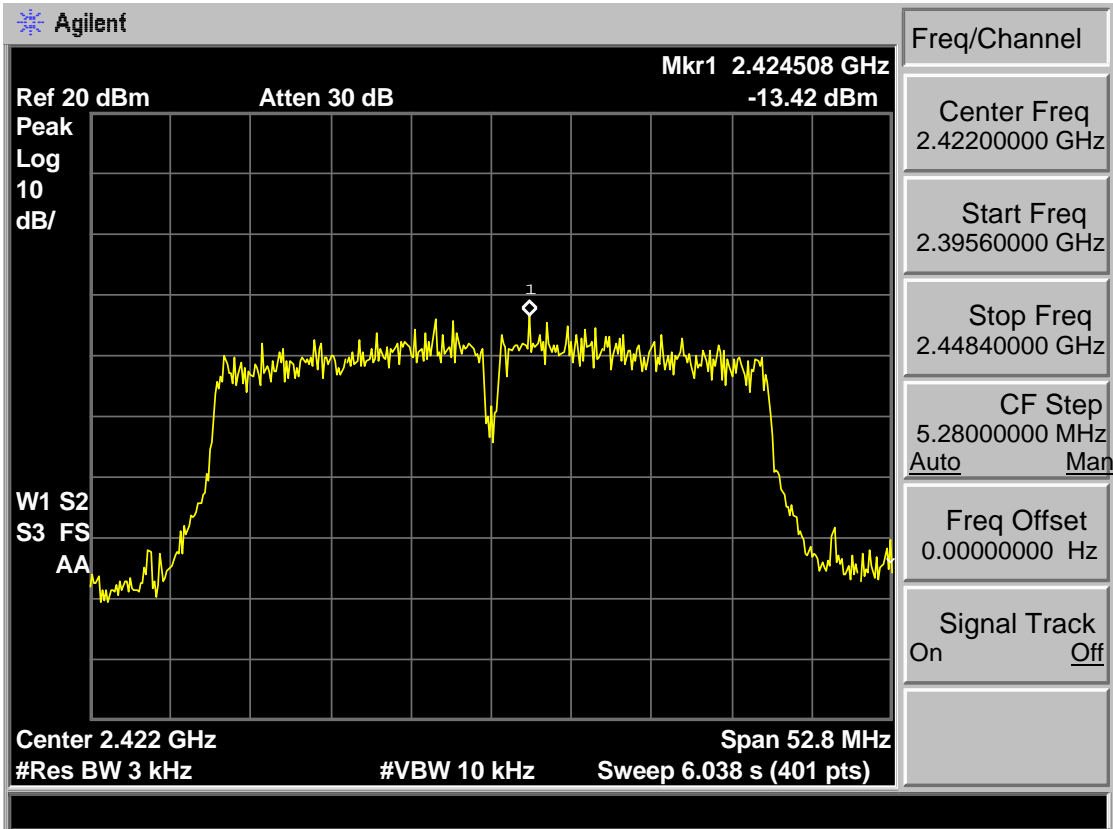
Test Mode: IEEE 802.11n HT20 2437MHz



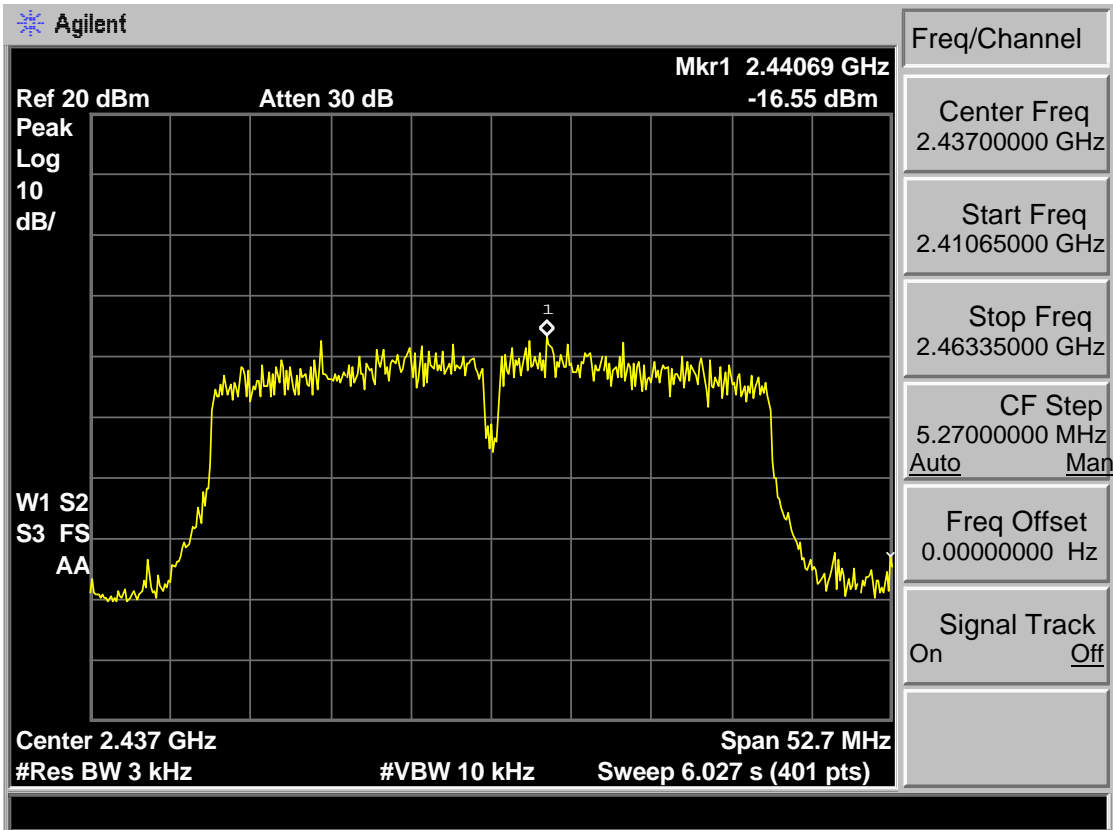
Test Mode: IEEE 802.11n HT20 2462MHz



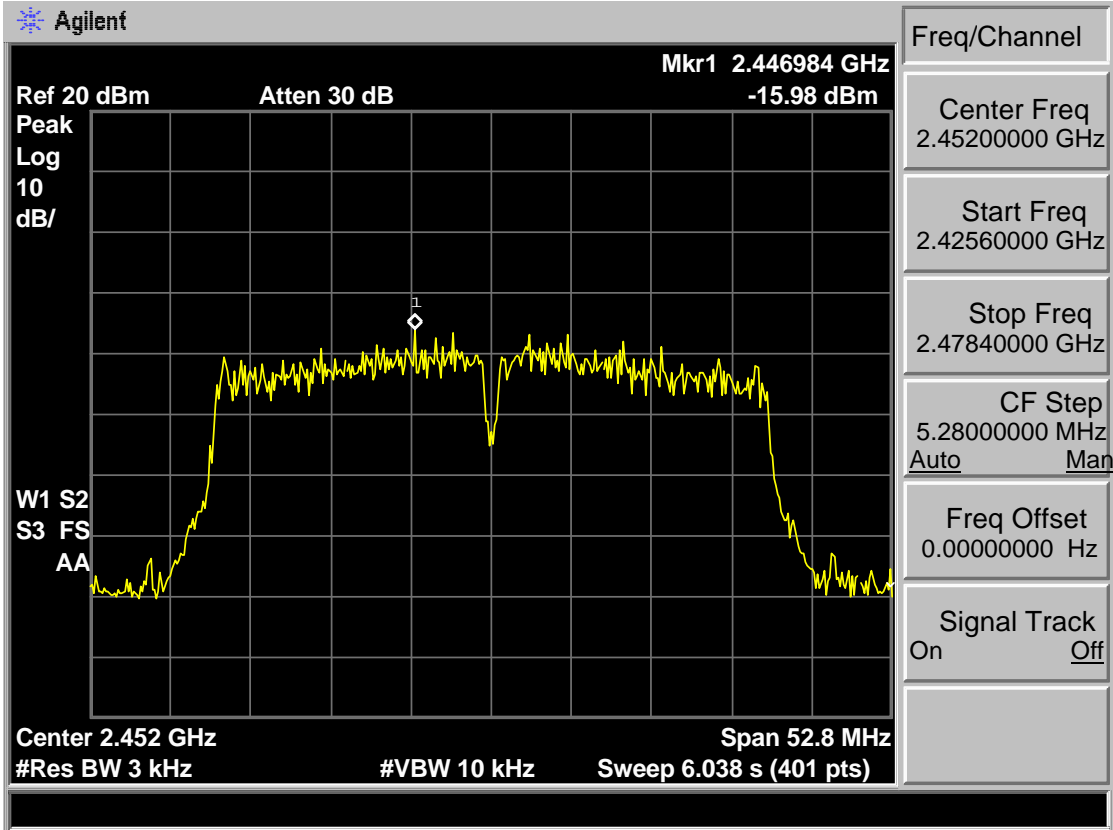
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



9 ANTENNA REQUIREMENTS

9.1 Limit

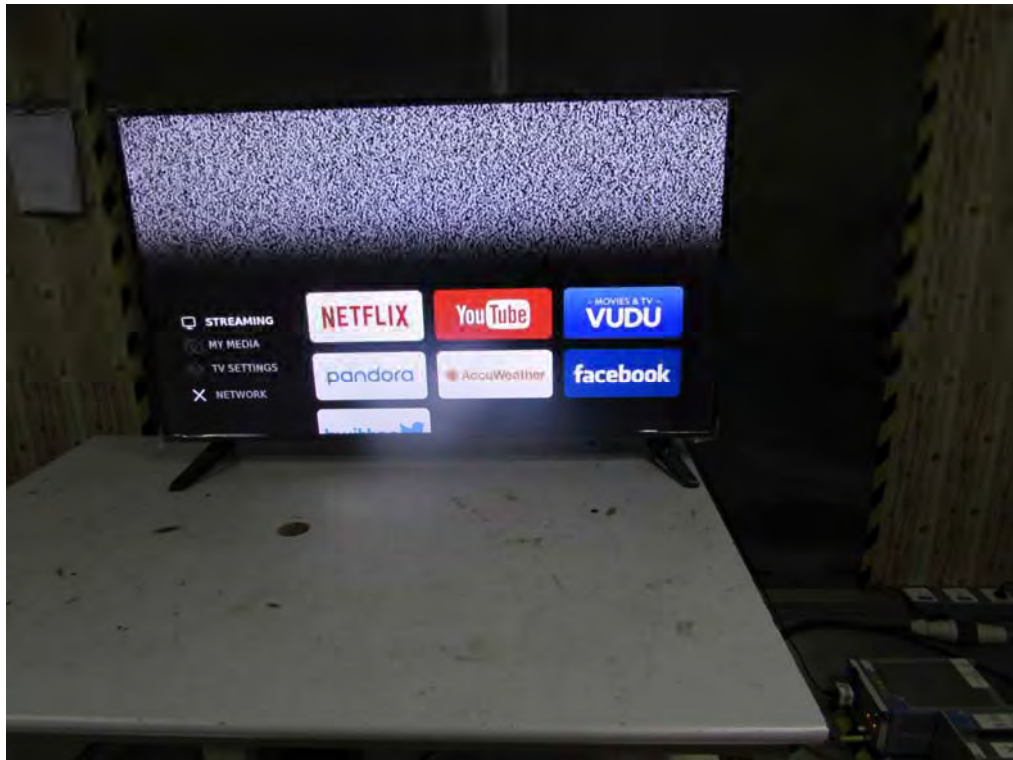
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional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

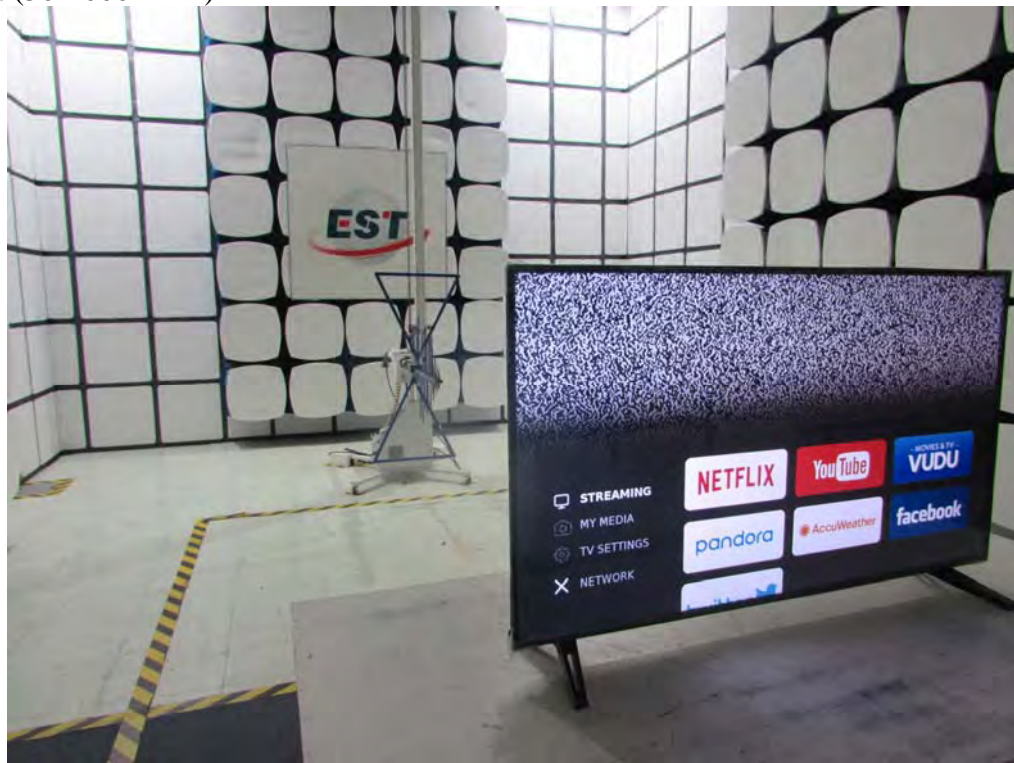
The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.21 dBi.

10 TEST SETUP PHOTO

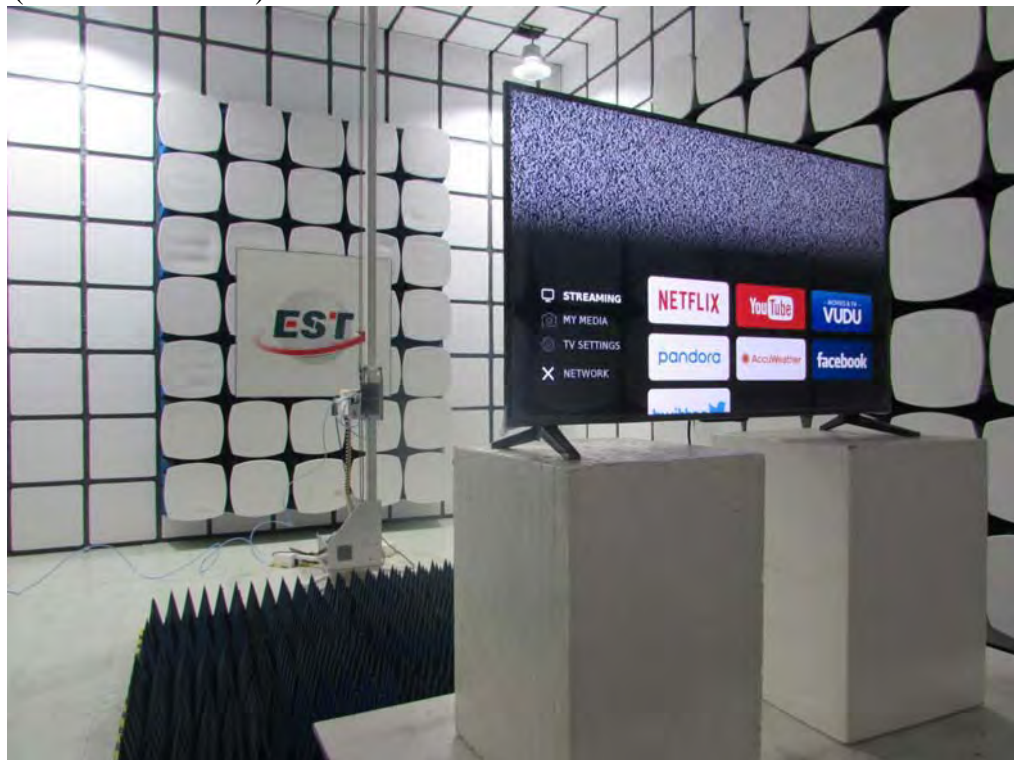
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1000 MHz)



11 PHOTOS OF EUT

External Photos
M/N: E4SFT5517



External Photos
M/N: E4SFT5517



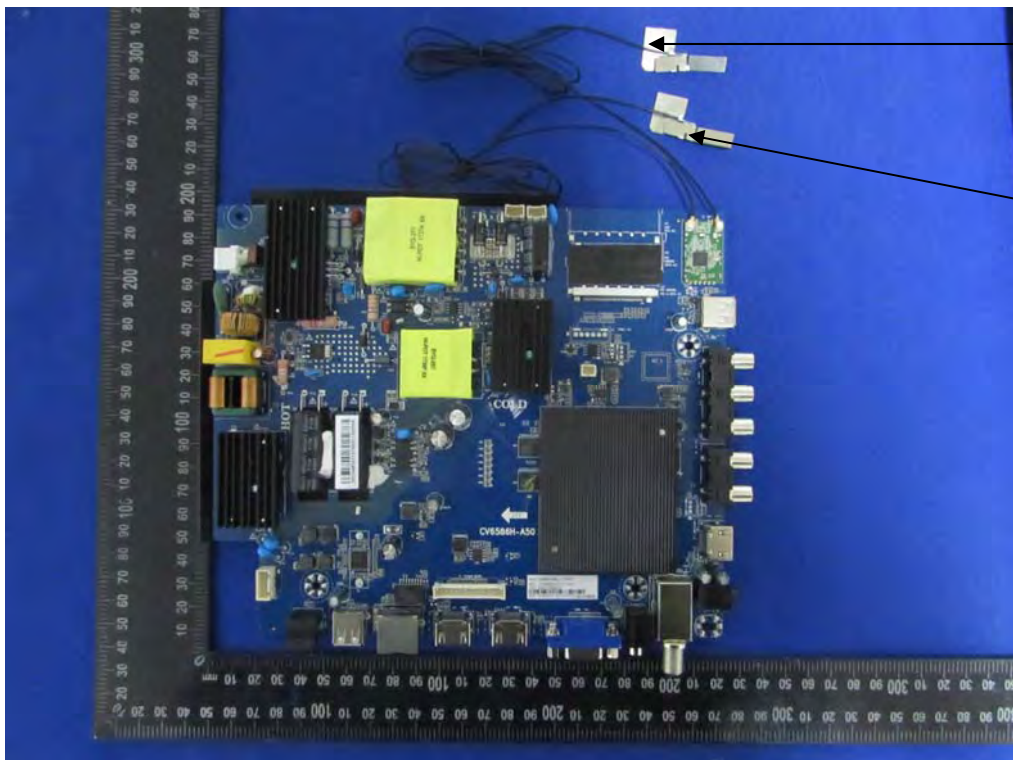
External Photos
M/N: E4SFT5517



External Photos
M/N: E4SFT5517



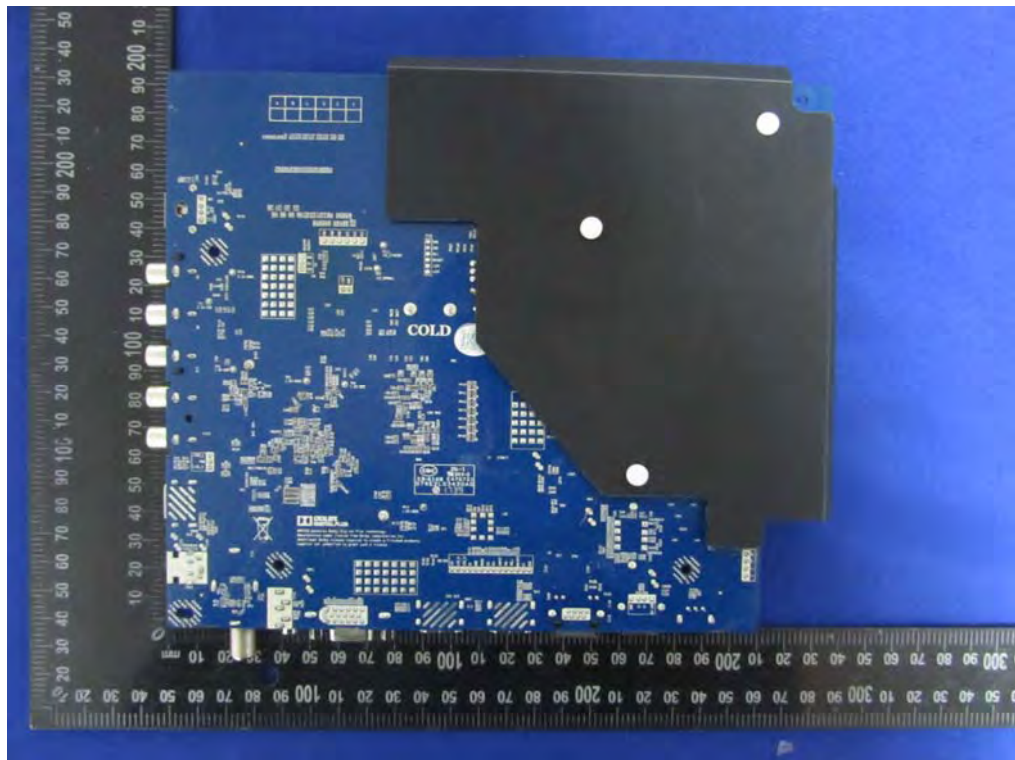
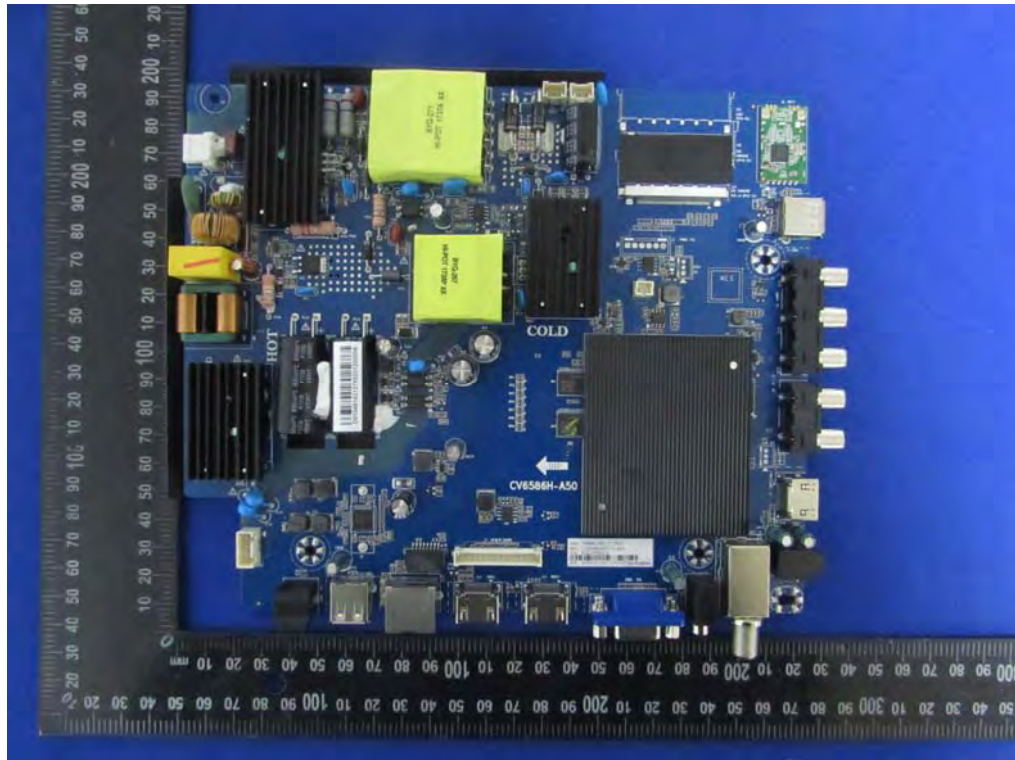
Internal Photos
M/N: E4SFT5517



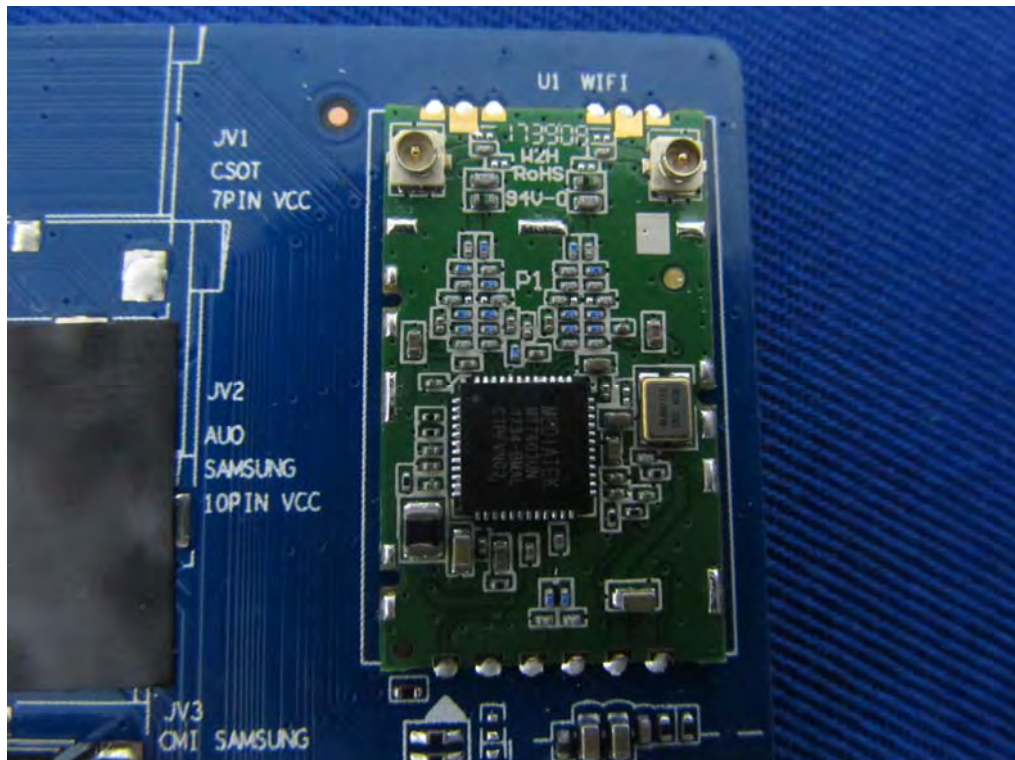
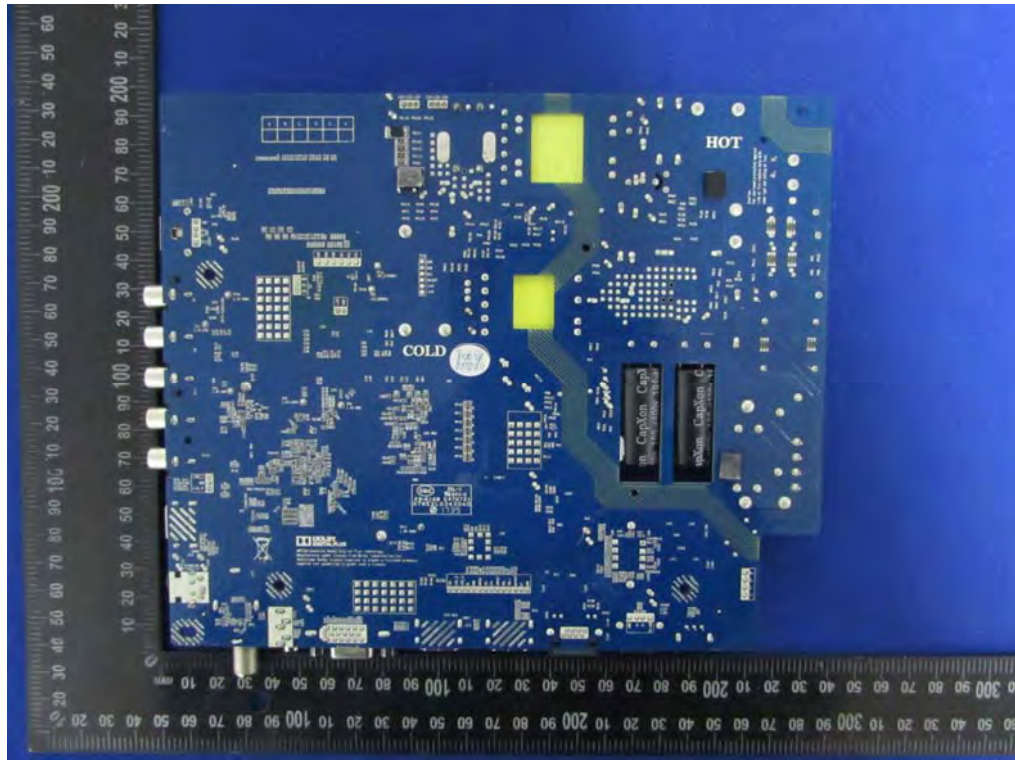
Wi-Fi Antenna 1

Wi-Fi Antenna 0

Internal Photos
M/N: E4SFT5517



Internal Photos
M/N: E4SFT5517



Internal Photos
M/N: E4SFT5517

