



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China.

TEST REPORT

FCC ID: SKN-SAPPHIRE

Applicant : VISION INVESTMENT GROUP O/A FILLA TABLET
Address : 100 SHELDON DRIVE UNIT 24 CAMBRIDGE ONTARIO N1R 57S
CANADA

Equipment under Test (EUT):

Name : Tablet Personal Computer
Model : Sapphire 7

Standards : FCC PART 15, SUBPART C : 2012 (Section 15.247)

Report No. : STI130309039

Date of Test : March 15-28, 2013

Date of Issue : March 28, 2013

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)
General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

TABLE OF CONTENT

Description	Page
1 General Information-----	3
1.1 Description of Device (EUT)-----	3
1.2 Description of Test Facility-----	4
2 EMC Equipment List-----	4
3 Test Procedure -----	5
4 Summary of Measurement -----	6
4.1 Summary of test result -----	6
4.2 Test connection-----	6
4.3 Assistant equipment used for test-----	6
4.4 Test mode -----	7
5 Spurious Emission -----	8
5.1 Radiation Emission -----	8
6 POWER LINE CONDUCTED EMISSION -----	26
6.1 Conducted Emission Limits(15.207)-----	26
6.2 Test Setup-----	26
6.3 Test Procedure-----	27
6.4 Test Results-----	27
7 Conducted Maximum Output Power-----	30
7.1 Test limit -----	30
7.2 Test Procedure-----	30
7.3 Test Setup-----	30
7.4 Test Results-----	30
8 PEAK POWER SPECTRAL DENSITY -----	50
8.1 Test limit -----	50
8.2 Method of measurement -----	50
8.3 Test Setup-----	50
8.4 Test Results-----	51
9 6dB Bandwidth-----	58
9.1 Test limit -----	58
9.2 Method of measurement -----	58
9.3 Test Setup-----	58
9.4 Test Results-----	58
10 Band Edge Check -----	66
10.1 Test limit -----	66
10.2 Test Procedure-----	66
10.3 Test Setup-----	66
10.4 Test Result -----	66
11 Antenna Requirement -----	83
11.1 Standard Requirement-----	83
11.2 Antenna Connected Construction-----	83
11.3 Result -----	83
12 Photographs of Test Setup -----	84
13 Photographs of EUT-----	87

1 General Information

1.1 Description of Device (EUT)

Trade Name	: N/A
EUT	: Tablet Personal Computer
Model No.	Sapphire 7
Type of Antenna	: Integral Antenna
Antenna Specification	: Max Gain 2dBi
Operation Frequency	: 2412~2462MHz for 802.11b.g.n/HT20 2422-2452MHz for 802.11n/HT40
Channel number	: 11 for 802.11b.g.n/HT20 7 for 802.11n/HT40 IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
Modulation type	: IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)
Power Supply	: DC 5V From AC 120V/60Hz adapter
Rated PF output Power	: 17.82dBm for 802.11b.g.n/HT20 (peak) 14.50dBm for 802.11n/HT40 (peak) 12.55dBm for 802.11b.g.n/HT20(AV) 8.35dBm for 802.11n/HT40(AV)
Applicant	: VISION INVESTMENT GROUP O/A FILLA TABLET
Address	: 100 SHELDON DRIVE UNIT 24 CAMBRIDGE ONTARIO N1R S7S CANADA
Manufacturer	: Shenzhen Kang De Wei Technology Co., Ltd
Address	: 9 Floor, Zhengqilong Building, Gushu 1st Road, Gushu Community, Xixiang Street, Baoan District, Shenzhen.

1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	Nov. 16, 12	1 Year
Spectrum analyzer	Agilent	E4443A	MY46185649	Oct. 31, 12	1 Year
Receiver	R&S	ESCI	100492	Oct. 31, 12	1 Year
Receiver	R&S	ESCI	101202	Oct. 31, 12	1 Year
Bilog Antenna	Sunol	JB3	A121206	Feb.20, 13	1 Year
Horn Antenna	EMCO	3115	640201028-06	Feb.20, 13	1 Year
ETS Horn Antenna	ETS	3160	SEL0076	Feb.20, 13	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Oct. 31, 12	1 Year
Cable	Resenberger	N/A	No.1	Oct. 31, 12	1 Year
Cable	SCHWARZBECK	N/A	No.2	Oct. 31, 12	1 Year
Cable	SCHWARZBECK	N/A	No.3	Oct. 31, 12	1 Year
Pre-amplifier	R&S	AFS42-00101 800-25-S-42	SEL0081	Oct. 31, 12	1 Year
Pre-amplifier	R&S	AFS33-1800265 0-30-8P-44	SEL0080	Oct. 31, 12	1 Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 μ H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB = 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

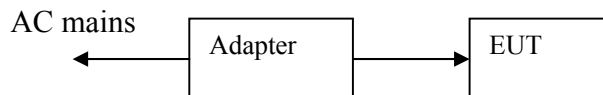
4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15 : 2012	Section 15.247&15.209	Compliance
Conduction Emission	FCC PART 15: 2012	Section 15.207	Compliance
6dB Bandwidth Test	FCC PART 15: 2012	Section 15.247	Compliance
Peak Power	FCC PART 15: 2012	Section 15.247	Compliance
Power Density	FCC PART 15: 2012	Section 15.247	Compliance
Band Edge	FCC PART 15: 2012	Section 15.247	Compliance
Antenna Requirement	FCC PART 15 : 2012	Section 15.203	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The Adapter be used during Test)

4.2 Test connection



4.3 Assistant equipment used for test

Description	:	AC ADAPTER
Manufacturer	:	A-WIN
Model No.	:	AW018WR-0500200UV

4.4 Test mode

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n/HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n/HT40	13.5	Low :CH3	2422
	13.5	Middle:CH6	2437
	13.5	High:CH9	2452
Note: 1. According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test. 2. we also estimated location of the XYZ 3 axis, the X axis is the worst mode.			

5 Spurious Emission

5.1 Radiation Emission

5.1.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

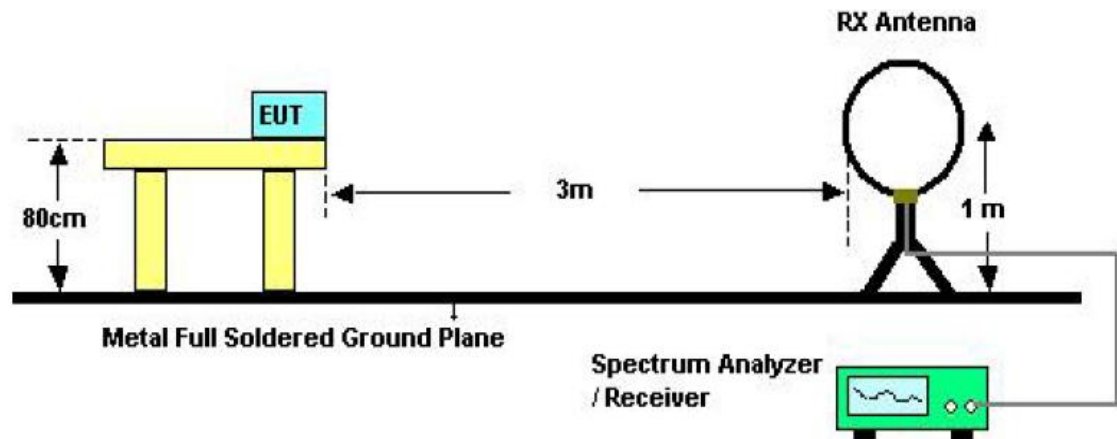
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

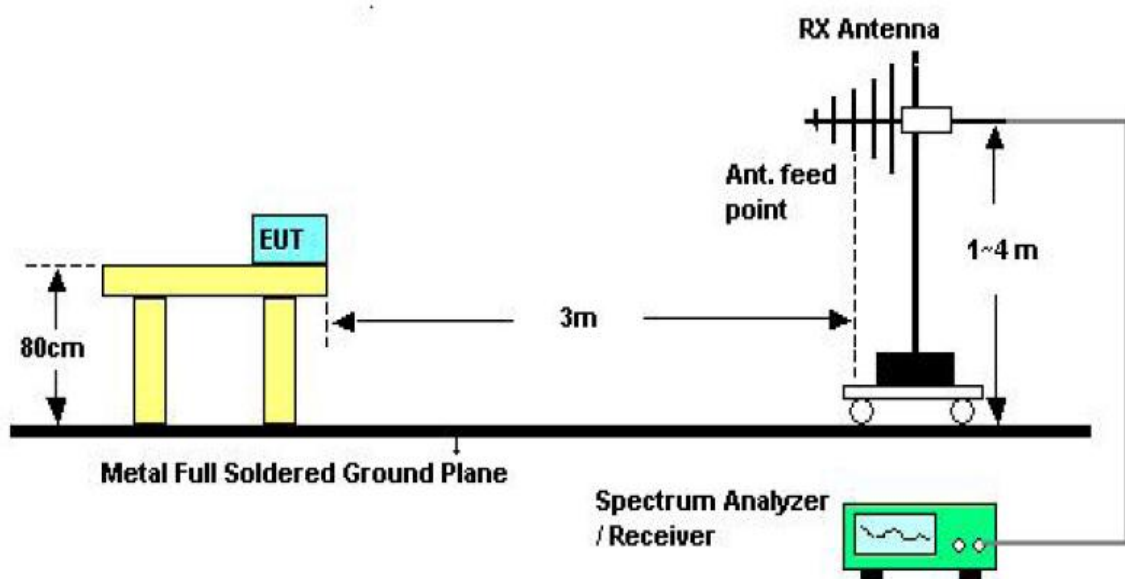
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.1.2 Test Setup

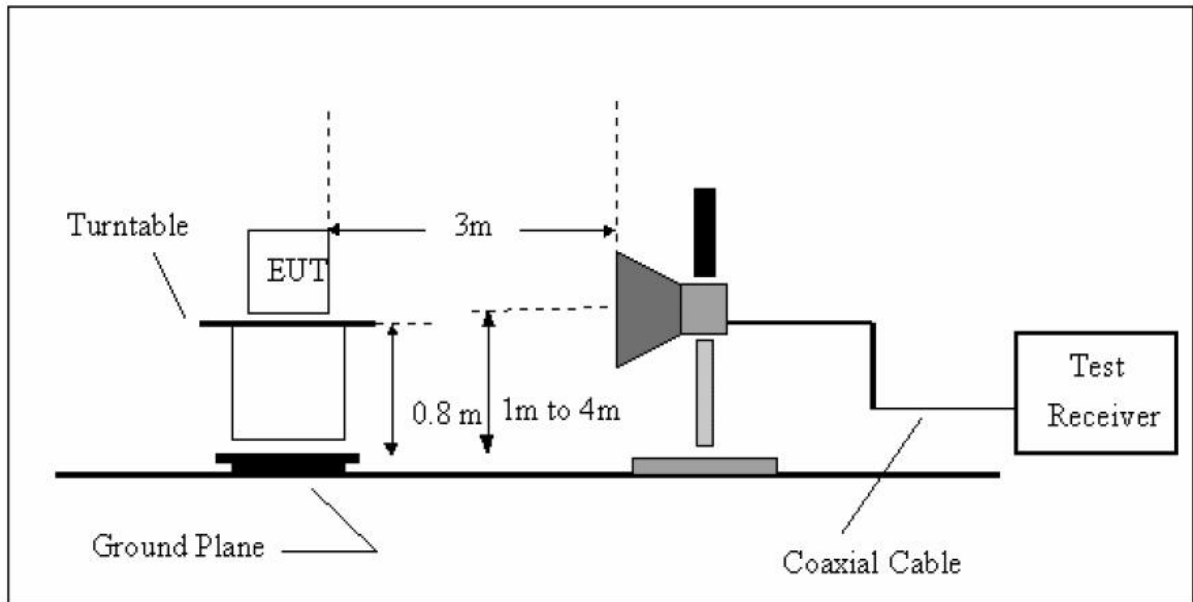
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.1.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

5.1.4 Test Equipment Setting For emission test Result

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

5.1.5 Test Condition

Continual Transmitting in maximum power.

5.1.6 Test Result

We have scanned the 10th harmonic from 9KHz to the EUT.

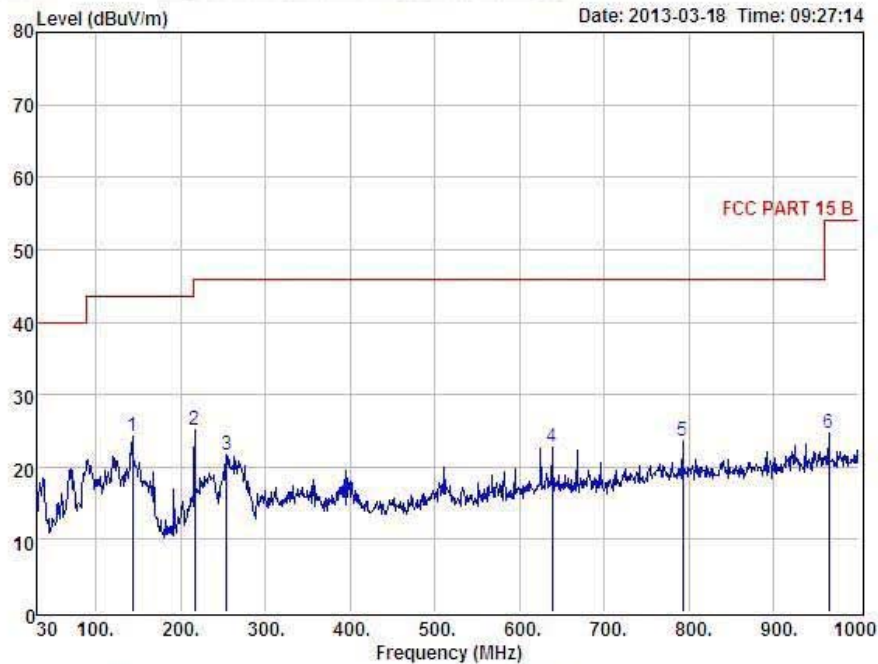
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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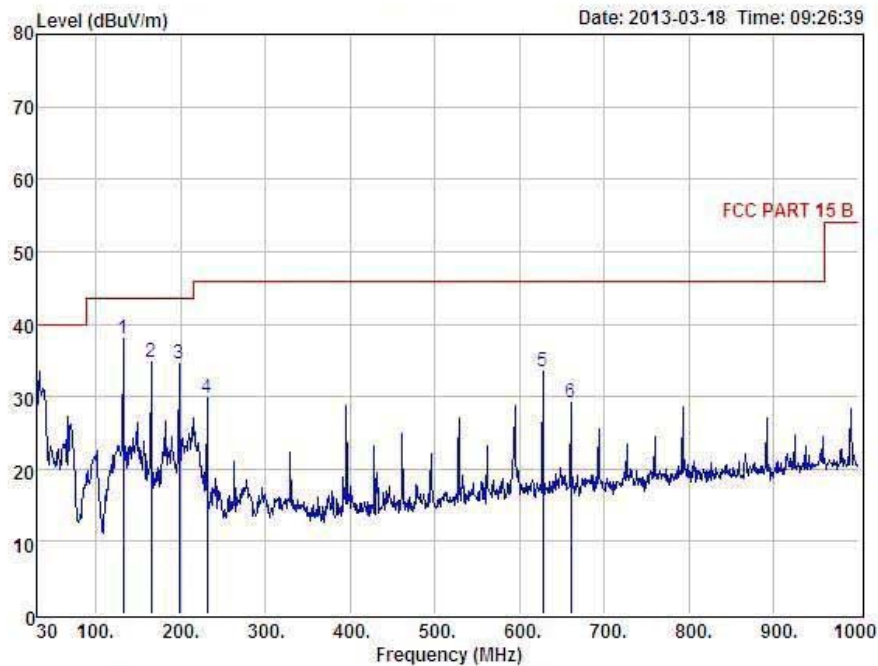
Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUT : Tablet Personal Computer
 Model No : Sapphire 7
 Test Mode : Link mode
 Power : DC 5V From AC 120V/60Hz adapter
 Test Engineer : Anna
 Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	143.49	37.15	13.64	26.90	0.38	24.27	43.50	-19.23	QP
2	216.24	41.10	10.41	27.05	0.55	25.01	46.00	-20.99	QP
3	254.07	36.60	11.65	27.11	0.57	21.71	46.00	-24.29	QP
4	638.19	30.31	18.94	27.82	1.22	22.65	46.00	-23.35	QP
5	792.42	29.28	20.65	27.66	1.38	23.65	46.00	-22.35	QP
6	965.08	28.08	22.18	27.61	1.97	24.62	54.00	-29.38	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : Link mode
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	131.85	51.50	12.79	26.89	0.57	37.97	43.50	-5.53	QP
2	164.83	47.40	13.76	26.91	0.42	34.67	43.50	-8.83	QP
3	197.81	51.01	10.01	26.97	0.48	34.53	43.50	-8.97	QP
4	230.79	45.11	11.21	27.08	0.61	29.85	46.00	-16.15	QP
5	627.52	41.53	18.82	27.82	0.98	33.51	46.00	-12.49	QP
6	660.50	36.82	19.21	27.78	0.94	29.19	46.00	-16.81	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

IEEE 802.11b

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remarks
					Peak (dBuV/m)	AV (dBuV/m)				
1383	V	55.50	---	-10.43	45.07	---	74.00	54.00	-8.93	Peak
2564	V	47.02	---	-7.13	39.89	---	74.00	54.00	-14.11	Peak
3697	V	47.21	---	-4.38	42.83	---	74.00	54.00	-11.17	Peak
4824	V	42.78	---	0.64	43.42	---	74.00	54.00	-10.58	Peak
N/A										

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remarks
					Peak (dBuV/m)	AV (dBuV/m)				
1172	H	55.00	---	-11.73	43.27	---	74.00	54.00	-10.73	Peak
2089	H	47.37	---	-8.49	38.88	---	74.00	54.00	-15.12	Peak
3077	H	50.07	---	-5.74	44.33	---	74.00	54.00	-9.67	Peak
4824	H	40.92	---	0.64	41.56	---	74.00	54.00	-12.44	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1493	V	54.54	---	-10.27	44.27	---	74.00	54.00	-9.73	Peak
2151	V	47.16	---	-8.24	38.92	---	74.00	54.00	-15.08	Peak
3862	V	46.13	---	-3.84	42.29	---	74.00	54.00	-11.71	Peak
4874	V	40.15	---	0.76	40.91	---	74.00	54.00	-13.09	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1247	H	54.96	---	-11.52	43.44	---	74.00	54.00	-10.56	Peak
1992	H	50.48	---	-8.64	41.84	---	74.00	54.00	-12.16	Peak
3446	H	44.32	---	-5.09	39.23	---	74.00	54.00	-14.77	Peak
4874	H	42.05	---	0.76	42.81	---	74.00	54.00	-11.19	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1274	V	55.05	---	-10.96	44.09	---	74.00	54.00	-9.91	Peak
2081	V	48.76	---	-8.49	40.27	---	74.00	54.00	-13.73	Peak
3301	V	47.56	---	-5.31	42.25	---	74.00	54.00	-11.75	Peak
4924	V	39.01	---	0.87	39.88	---	74.00	54.00	-14.12	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1275	H	52.81	---	-10.96	41.85	---	74.00	54.00	-12.15	Peak
2596	H	50.87	---	-7.13	43.74	---	74.00	54.00	-10.26	Peak
3722	H	42.36	---	-4.24	38.12	---	74.00	54.00	-15.88	Peak
4924	H	42.00	---	0.87	42.87	---	74.00	54.00	-11.13	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g:

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1277	V	54.84	---	-10.96	43.88	---	74.00	54.00	-10.12	Peak
1704	V	50.52	---	-9.53	40.99	---	74.00	54.00	-13.01	Peak
2810	V	44.31	---	-6.17	38.14	---	74.00	54.00	-15.86	Peak
4824	V	41.62	---	0.64	42.26	---	74.00	54.00	-11.74	Peak
N/A										

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1433	H	52.57	---	-10.29	42.28	---	74.00	54.00	-11.72	Peak
2688	H	46.06	---	-6.94	39.12	---	74.00	54.00	-14.88	Peak
3955	H	45.22	---	-3.25	41.97	---	74.00	54.00	-12.03	Peak
4824	H	43.99	---	0.64	44.63	---	74.00	54.00	-9.37	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1559	V	53.30	---	-10.07	43.23	---	74.00	54.00	-10.77	Peak
2801	V	45.09	---	-6.17	38.92	---	74.00	54.00	-15.08	Peak
3722	V	48.31	---	-4.24	44.07	---	74.00	54.00	-9.93	Peak
4874	V	41.20	---	0.76	41.96	---	74.00	54.00	-12.04	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1315	H	50.02	---	-10.84	39.18	---	74.00	54.00	-14.82	Peak
2692	H	47.68	---	-6.94	40.74	---	74.00	54.00	-13.26	Peak
3372	H	48.21	---	-5.18	43.03	---	74.00	54.00	-10.97	Peak
4874	H	39.80	---	0.76	40.56	---	74.00	54.00	-13.44	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1311	V	53.82	---	-10.84	42.98	---	74.00	54.00	-11.02	Peak
2637	V	44.97	---	-7.04	37.93	---	74.00	54.00	-16.07	Peak
3721	V	47.46	---	-4.24	43.22	---	74.00	54.00	-10.78	Peak
4924	V	39.91	---	0.87	40.78	---	74.00	54.00	-13.22	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1514	H	53.39	---	-10.14	43.25	---	74.00	54.00	-10.75	Peak
2375	H	47.54	---	-7.59	39.95	---	74.00	54.00	-14.05	Peak
3837	H	44.85	---	-3.96	40.89	---	74.00	54.00	-13.11	Peak
4924	H	38.12	---	0.87	38.99	---	74.00	54.00	-15.01	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT20

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1237	V	54.98	---	-11.52	43.46	---	74.00	54.00	-10.54	Peak
2015	V	48.70	---	-8.58	40.12	---	74.00	54.00	-13.88	Peak
3256	V	49.57	---	-5.39	44.18	---	74.00	54.00	-9.82	Peak
4824	V	38.09	---	0.64	38.73	---	74.00	54.00	-15.27	Peak
N/A										

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1421	H	53.16	---	-10.29	42.87	---	74.00	54.00	-11.13	Peak
2713	H	47.47	---	-6.43	41.04	---	74.00	54.00	-12.96	Peak
3829	H	47.08	---	-3.96	43.12	---	74.00	54.00	-10.88	Peak
4824	H	43.93	---	0.64	44.57	---	74.00	54.00	-9.43	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1326	V	48.83	---	-10.84	37.99	---	74.00	54.00	-16.01	Peak
2316	V	48.22	---	-7.46	40.76	---	74.00	54.00	-13.24	Peak
3077	V	45.58	---	-5.74	39.84	---	74.00	54.00	-14.16	Peak
4874	V	42.53	---	0.76	43.29	---	74.00	54.00	-10.71	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1299	H	54.07	---	-10.96	43.11	---	74.00	54.00	-10.89	Peak
2578	H	48.59	---	-7.13	41.46	---	74.00	54.00	-12.54	Peak
3340	H	44.65	---	-5.31	39.34	---	74.00	54.00	-14.66	Peak
4874	H	41.47	---	0.76	42.23	---	74.00	54.00	-11.77	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1452	V	52.12	---	-10.27	41.85	---	74.00	54.00	-12.15	Peak
2714	V	48.64	---	-6.43	42.21	---	74.00	54.00	-11.79	Peak
3625	V	43.36	---	-4.52	38.84	---	74.00	54.00	-15.16	Peak
4924	V	38.76	---	0.87	39.63	---	74.00	54.00	-14.37	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1422	H	50.28	---	-10.29	39.99	---	74.00	54.00	-14.01	Peak
2779	H	47.67	---	-6.38	41.29	---	74.00	54.00	-12.71	Peak
3519	H	48.63	---	-4.87	43.76	---	74.00	54.00	-10.24	Peak
4924	H	43.54	---	0.87	44.41	---	74.00	54.00	-9.59	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT40

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1395	V	49.31	---	-10.43	38.88	---	74.00	54.00	-15.12	Peak
2218	V	52.94	---	-8.13	44.81	---	74.00	54.00	-9.19	Peak
3561	V	47.50	---	-4.76	42.74	---	74.00	54.00	-11.26	Peak
4844	V	40.48	---	0.64	41.12	---	74.00	54.00	-12.88	Peak
N/A										

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1179	H	52.55	---	-11.73	40.82	---	74.00	54.00	-13.18	Peak
2712	H	49.94	---	-6.43	43.51	---	74.00	54.00	-10.49	Peak
3518	H	46.70	---	-4.87	41.83	---	74.00	54.00	-12.17	Peak
4844	H	39.81	---	0.64	40.45	---	74.00	54.00	-13.55	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1371	V	49.50	---	-10.43	39.07	---	74.00	54.00	-14.93	Peak
2692	V	49.50	---	-6.94	42.56	---	74.00	54.00	-11.44	Peak
3788	V	48.19	---	-4.07	44.12	---	74.00	54.00	-9.88	Peak
4874	V	40.22	---	0.76	40.98	---	74.00	54.00	-13.02	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1318	H	55.00	---	-10.84	44.16	---	74.00	54.00	-9.84	Peak
2509	H	49.92	---	-7.26	42.66	---	74.00	54.00	-11.34	Peak
3411	H	44.91	---	-5.09	39.82	---	74.00	54.00	-14.18	Peak
4874	H	37.22	---	0.76	37.98	---	74.00	54.00	-16.02	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1359	V	54.30	---	-10.43	43.87	---	74.00	54.00	-10.13	Peak
2911	V	46.49	---	-5.95	40.54	---	74.00	54.00	-13.46	Peak
3607	V	42.45	---	-4.52	37.93	---	74.00	54.00	-16.07	Peak
4904	V	41.91	---	0.87	42.78	---	74.00	54.00	-11.22	Peak

EUT	Tablet Personal Computer	Model Name	Sapphire 7
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From AC 120V/60Hz adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1289	H	51.23	---	-10.96	40.27	---	74.00	54.00	-13.73	Peak
2644	H	44.63	---	-7.04	37.59	---	74.00	54.00	-16.41	Peak
3349	H	48.29	---	-5.31	42.98	---	74.00	54.00	-11.02	Peak
4904	H	43.99	---	0.87	44.86	---	74.00	54.00	-9.14	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.207)

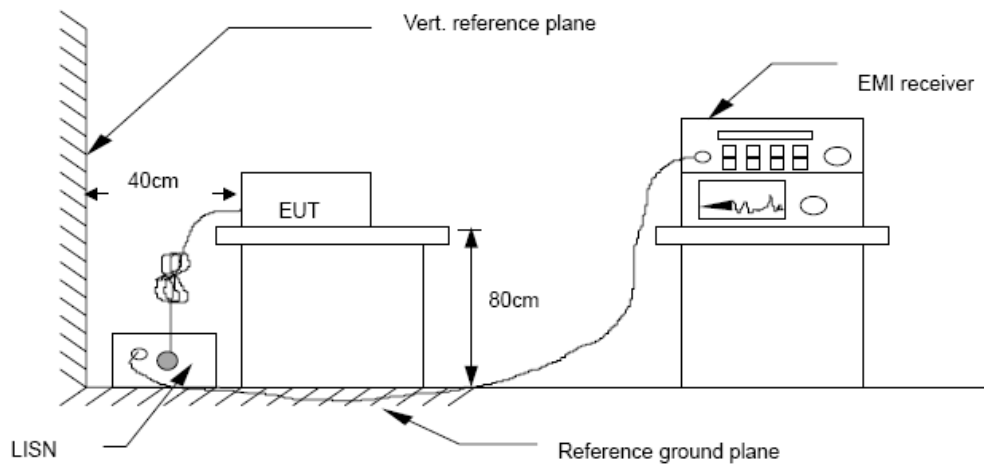
Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

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

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

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines 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 C63.4-2003 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

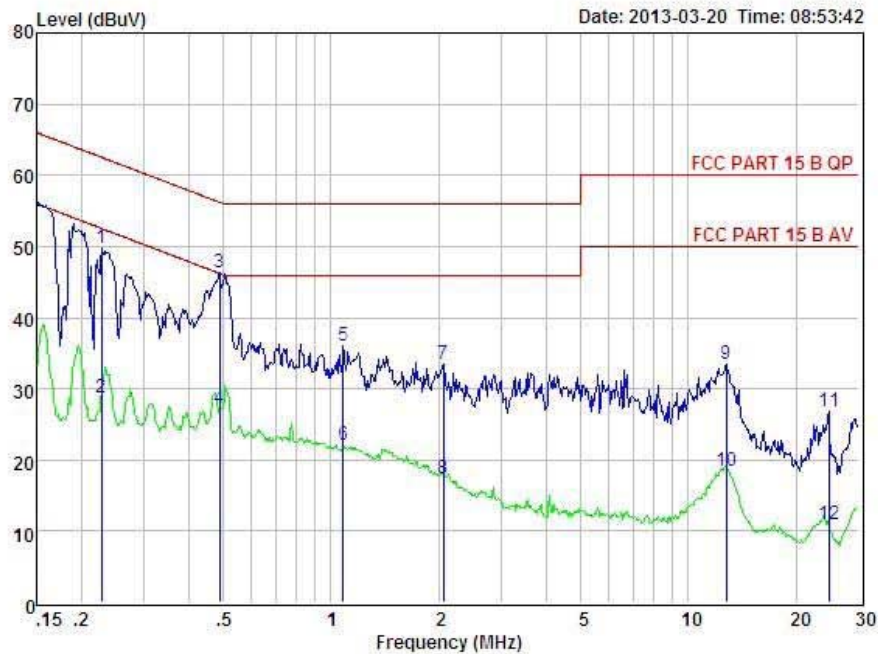
6.4 Test Results

PASS

Detailed information please see the following page.



Shenzhen Certification Technology Service Co., Ltd.
 2F, Building B, East Area of Nanchang Second Industrial Zone,
 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
 Tel: 4006786199 Fax: +86-755-26736857
 Website: <http://www.cessz.com> Email: Service@cessz.com



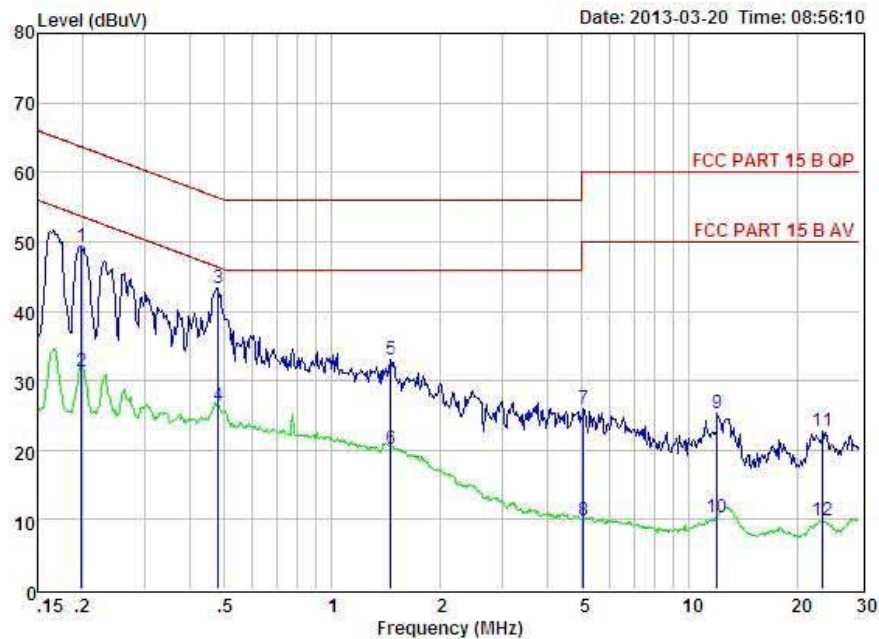
Condition : FCC PART 15 B QP POL: LINE Temp: 24 °C Hum: 56 %
 EUT : Tablet Personal Computer
 Model No : Sapphire 7
 Test Mode : Link mode
 Power : DC 5V From AC 120V/60Hz adapter
 Test Engineer: Anna
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.228	39.94	0.03	-9.72	0.10	49.79	62.52	-12.73	QP
2	0.228	18.94	0.03	-9.72	0.10	28.79	52.52	-23.73	Average
3	0.489	36.43	0.03	-9.72	0.10	46.28	56.19	-9.91	QP
4	0.489	17.43	0.03	-9.72	0.10	27.28	46.19	-18.91	Average
5	1.082	26.18	0.04	-9.71	0.10	36.03	56.00	-19.97	QP
6	1.082	12.18	0.04	-9.71	0.10	22.03	46.00	-23.97	Average
7	2.066	23.61	0.06	-9.70	0.10	33.47	56.00	-22.53	QP
8	2.066	7.61	0.06	-9.70	0.10	17.47	46.00	-28.53	Average
9	12.784	23.53	0.24	-9.44	0.22	33.43	60.00	-26.57	QP
10	12.784	8.53	0.24	-9.44	0.22	18.43	50.00	-31.57	Average
11	24.790	16.36	0.46	-9.59	0.47	26.88	60.00	-33.12	QP
12	24.790	0.36	0.46	-9.59	0.47	10.88	50.00	-39.12	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Shenzhen Certification Technology Service Co., Ltd.
 2F, Building B, East Area of Nanchang Second Industrial Zone,
 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
 Tel: 4006786199 Fax: +86-755-26736857
 Website: <http://www.cessz.com> Email: Service@cessz.com



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 24 °C Hum: 56 %
 EUT : Tablet Personal Computer
 Model No : Sapphire 7
 Test Mode : Link mode
 Power : DC 5V From AC 120V/60Hz adapter
 Test Engineer: Anna
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.199	39.50	0.03	-9.72	0.10	49.35	63.67	-14.32	QP
2	0.199	21.50	0.03	-9.72	0.10	31.35	53.67	-22.32	Average
3	0.481	33.48	0.03	-9.72	0.10	43.33	56.32	-12.99	QP
4	0.481	16.48	0.03	-9.72	0.10	26.33	46.32	-19.99	Average
5	1.464	23.21	0.05	-9.71	0.10	33.07	56.00	-22.93	QP
6	1.464	10.21	0.05	-9.71	0.10	20.07	46.00	-25.93	Average
7	5.058	15.98	0.10	-9.68	0.12	25.88	60.00	-34.12	QP
8	5.058	-0.02	0.10	-9.68	0.12	9.88	50.00	-40.12	Average
9	11.996	15.28	0.26	-9.46	0.22	25.22	60.00	-34.78	QP
10	11.996	0.28	0.26	-9.46	0.22	10.22	50.00	-39.78	Average
11	23.636	12.40	0.43	-9.56	0.44	22.83	60.00	-37.17	QP
12	23.636	-0.60	0.43	-9.56	0.44	9.83	50.00	-40.17	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

7 Conducted Maximum Output Power

7.1 Test limit

Please refer section 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1W(30dBm)

7.2 Test Procedure

Details see the KDB558074 Meas Guidance V02

7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

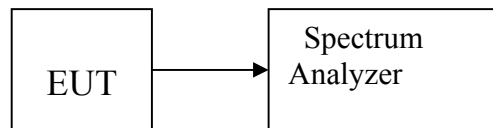
7.2.3 Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Sweep=auto.

7.2.4 Record the max. reading.

7.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

Details see the KDB558074 DTS Meas Guidance V02

7.3 Test Setup



7.4 Test Results

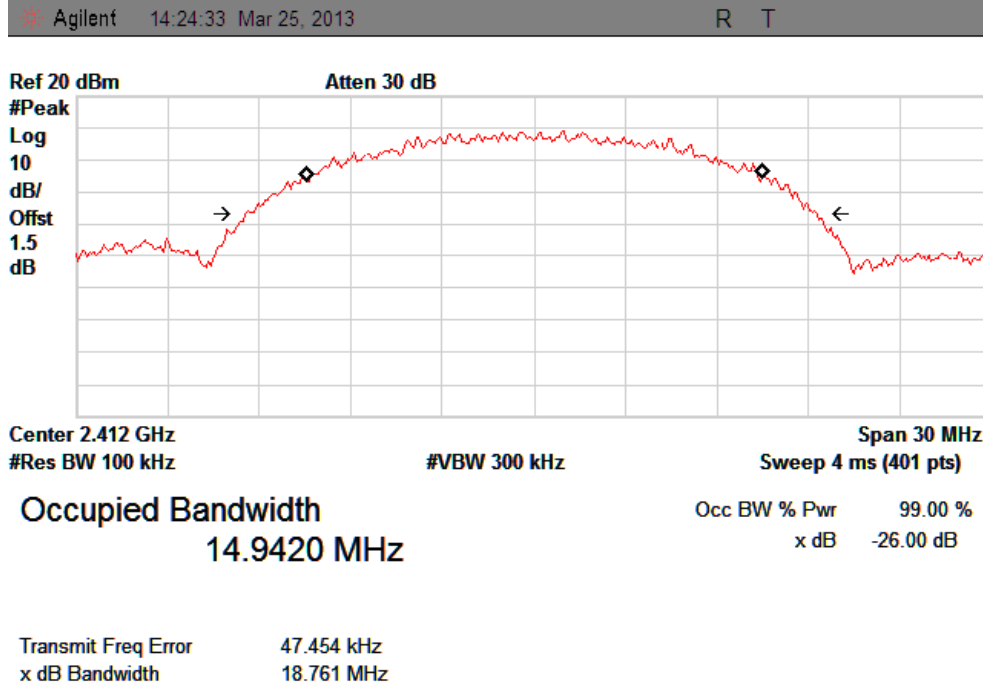
PASS

Detailed information please see the following page.

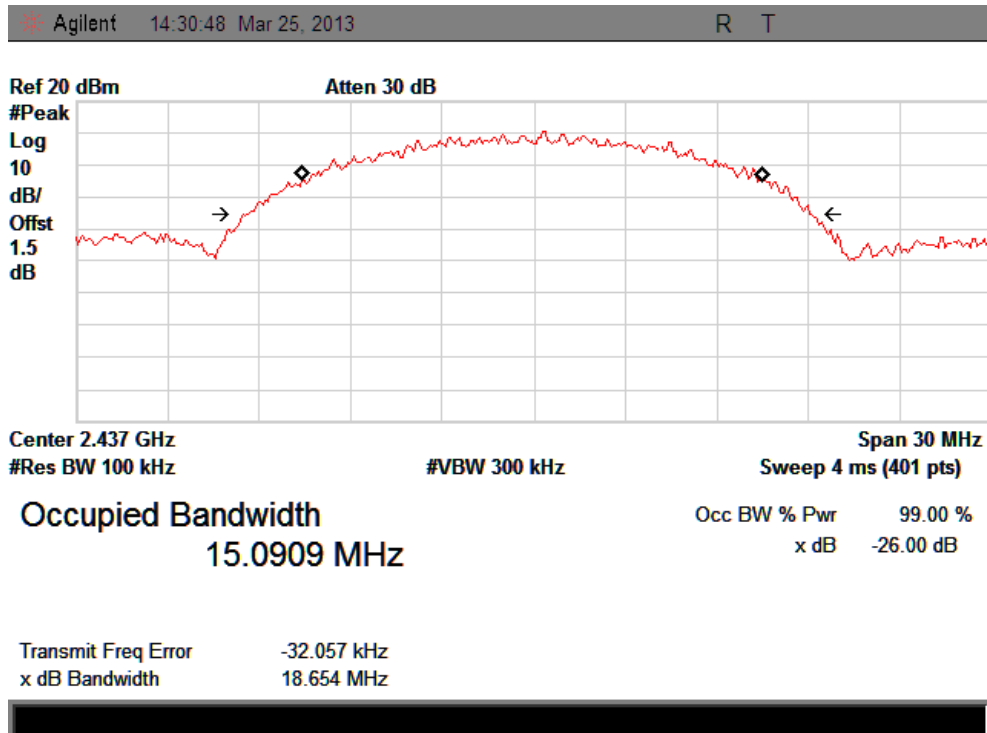
Channel	Frequency (MHz)	Data Rate (Mbps)	PK Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)
IEEE802.11b					
Low	2412	1	17.82	12.55	30
Mid	2437	1	17.51	12.31	30
High	2462	1	17.36	11.75	30
IEEE802.11g					
Low	2412	6	14.75	11.14	30
Mid	2437	6	16.13	9.88	30
High	2462	6	15.19	9.43	30
IEEE802.11n HT20					
Low	2412	6.5	17.09	10.10	30
Mid	2437	6.5	15.83	9.07	30
High	2462	6.5	16.11	9.74	30
IEEE802.11n HT40					
Low	2422	13.5	13.81	7.29	30
Mid	2437	13.5	14.50	7.86	30
High	2452	13.5	13.93	8.35	30

26dB bandwidth(EBW)

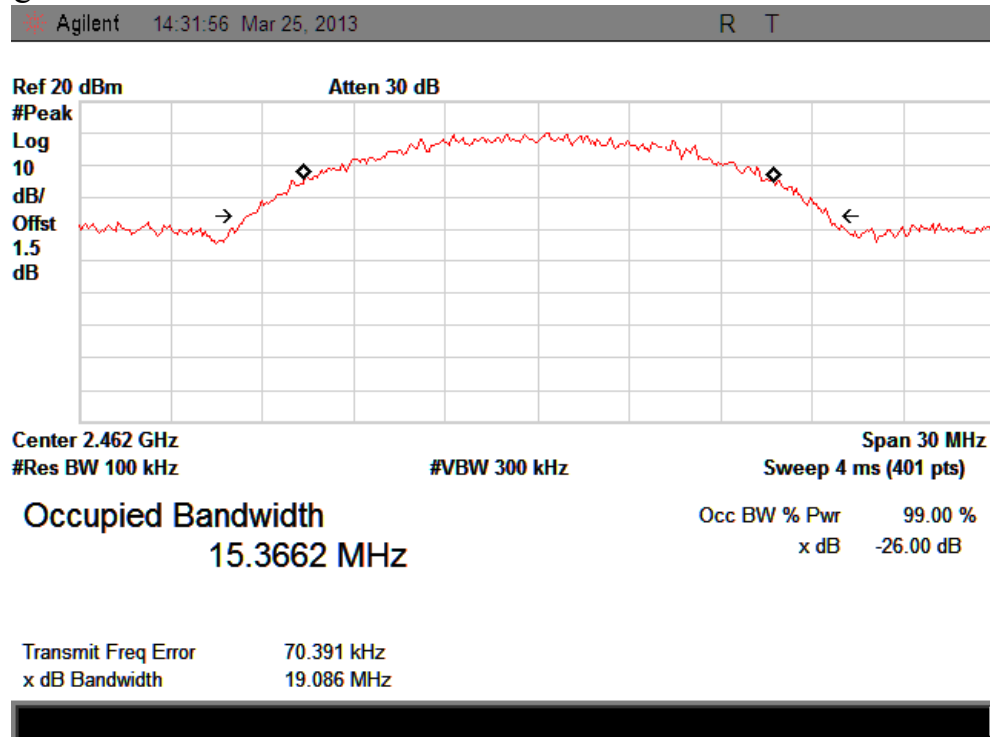
IEEE 802.11b: CH Low :



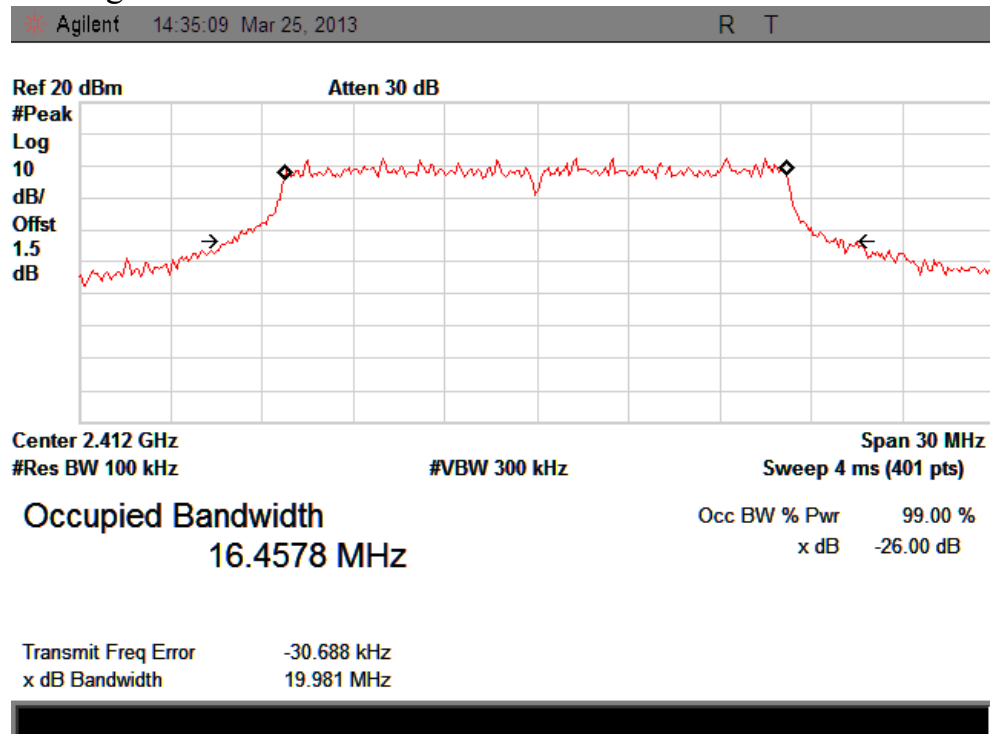
CH Mid:



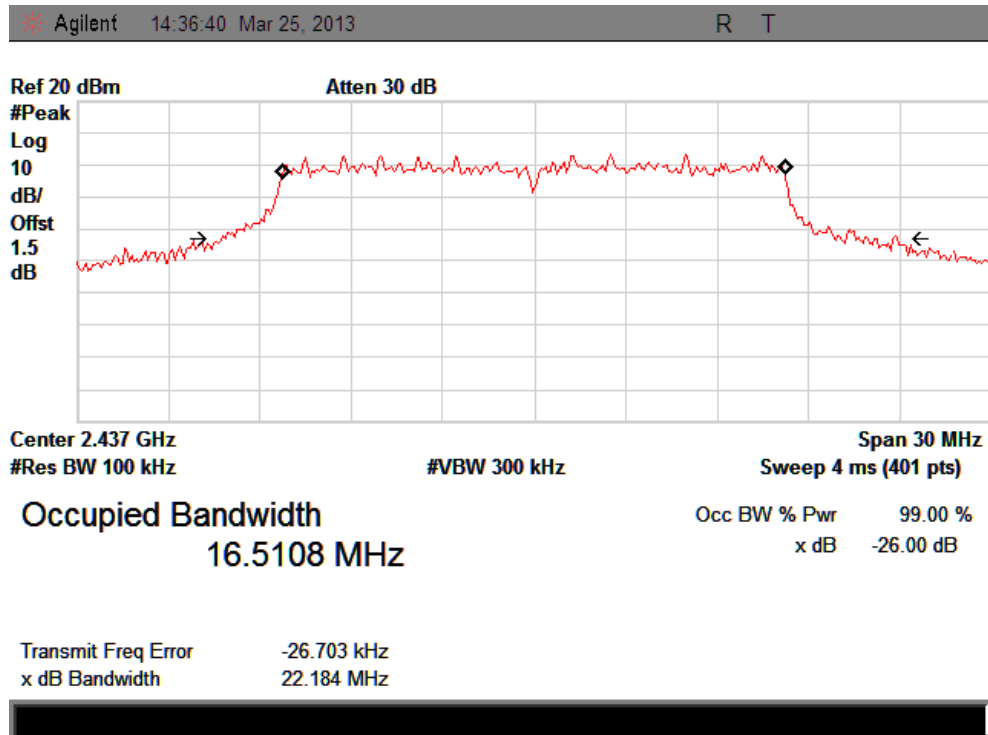
CH High:



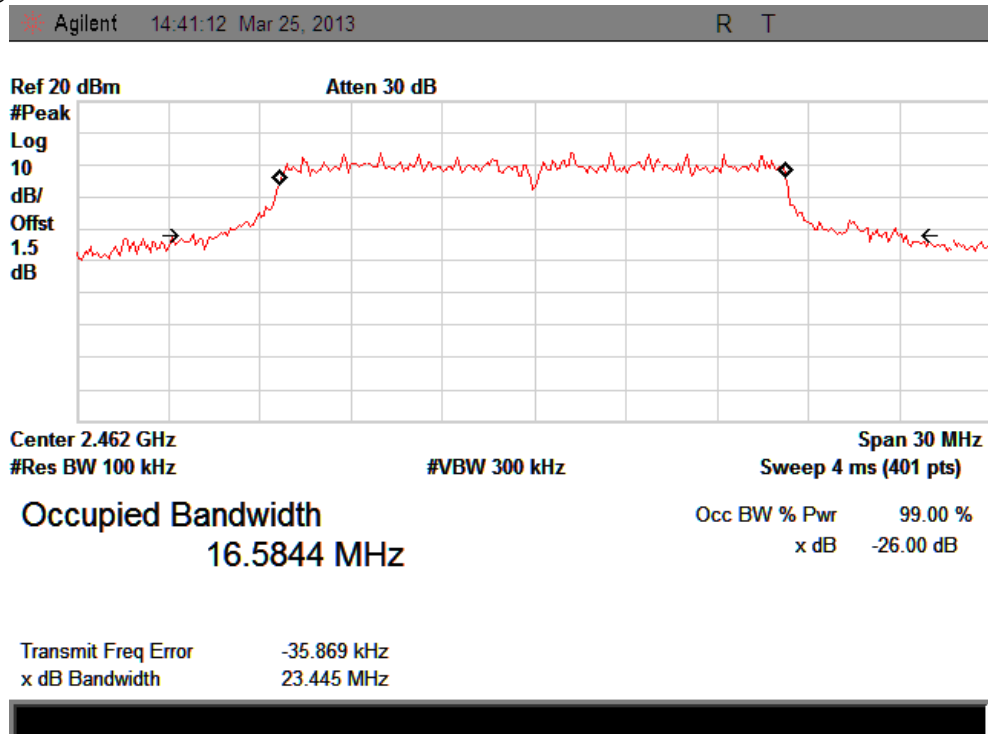
IEEE 802.11g: CH Low :



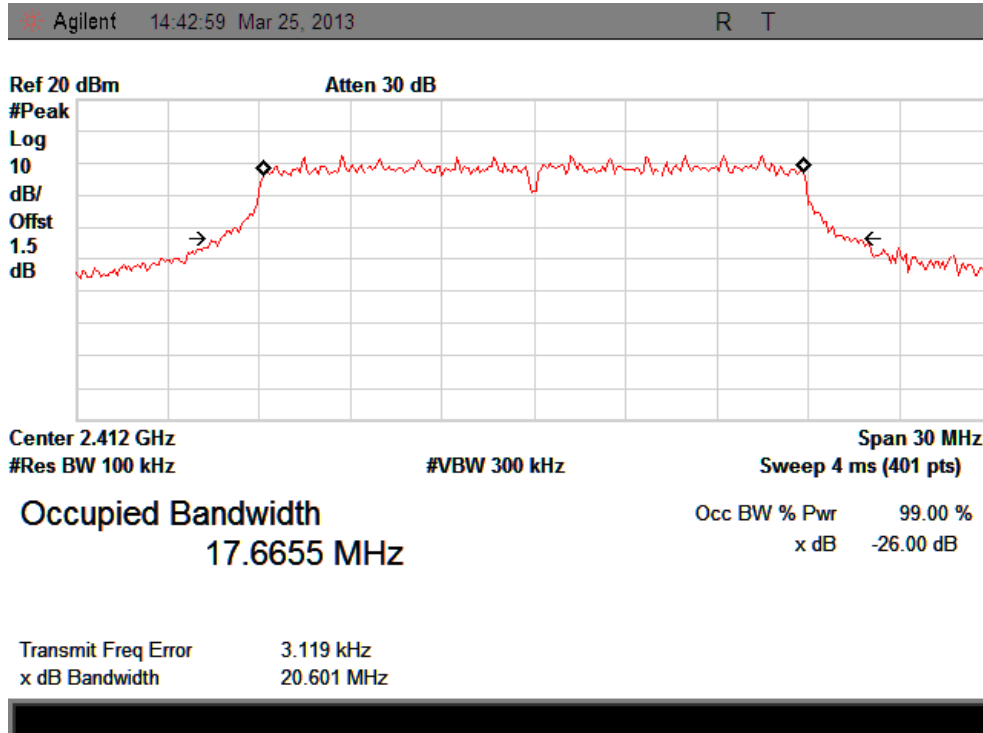
CH Mid:



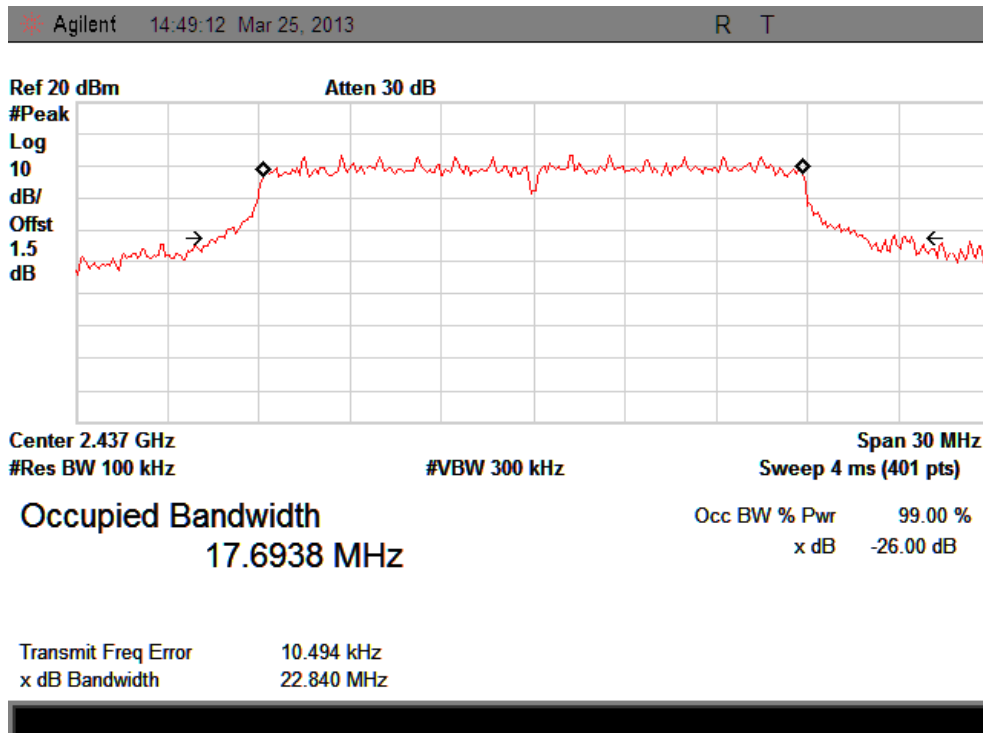
CH High:



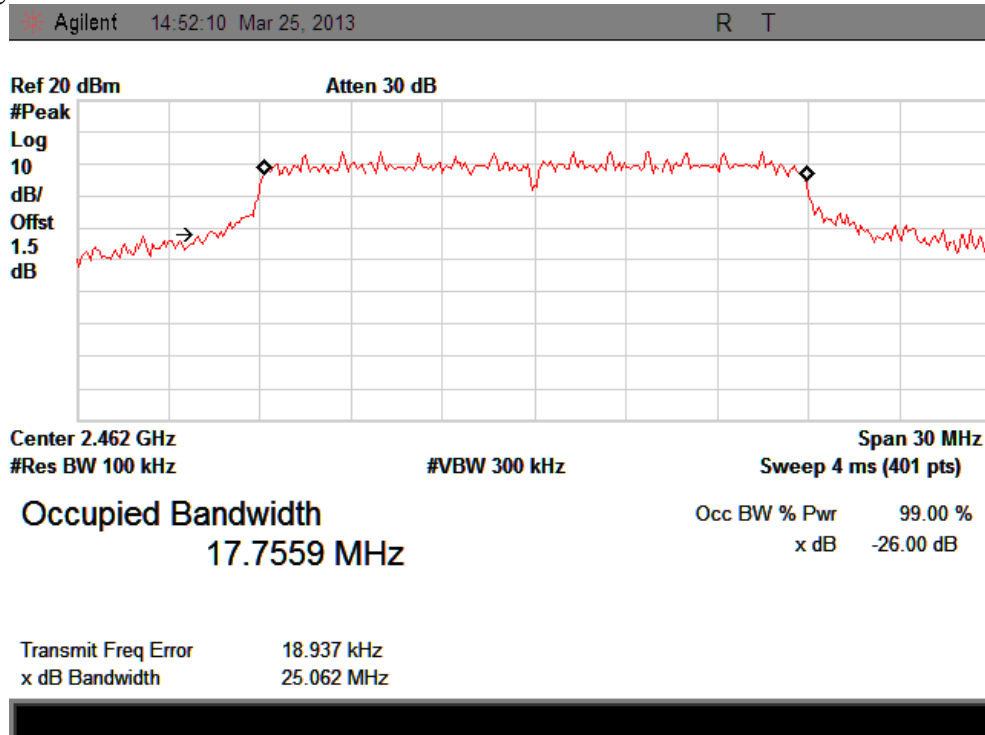
IEEE 802.11n/HT20: CH Low :



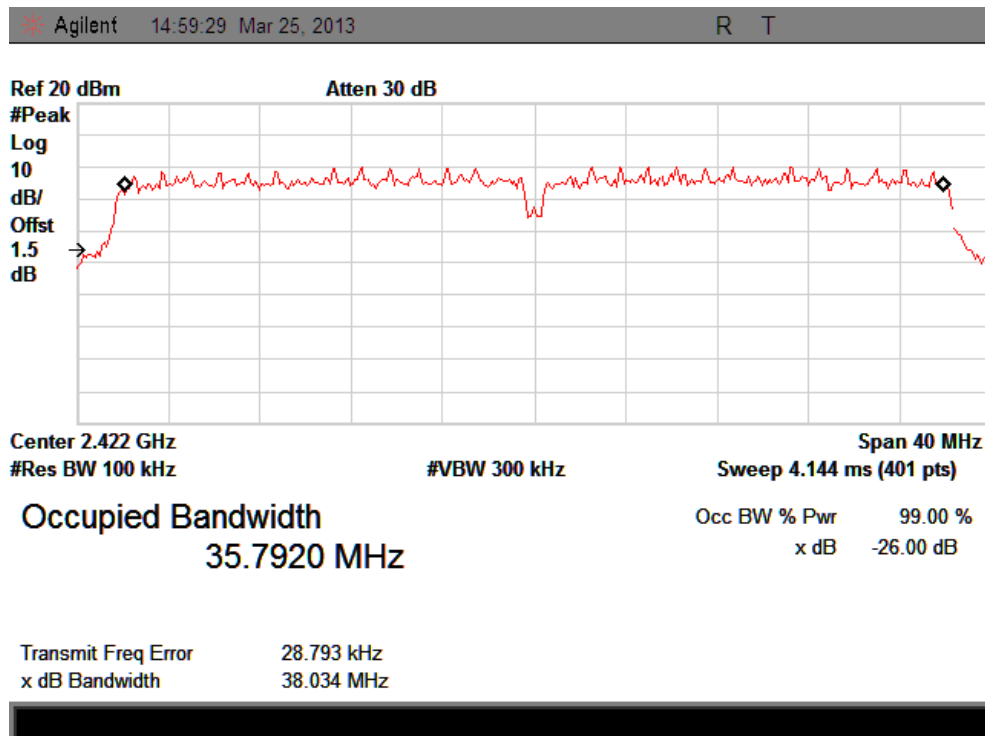
CH Mid :



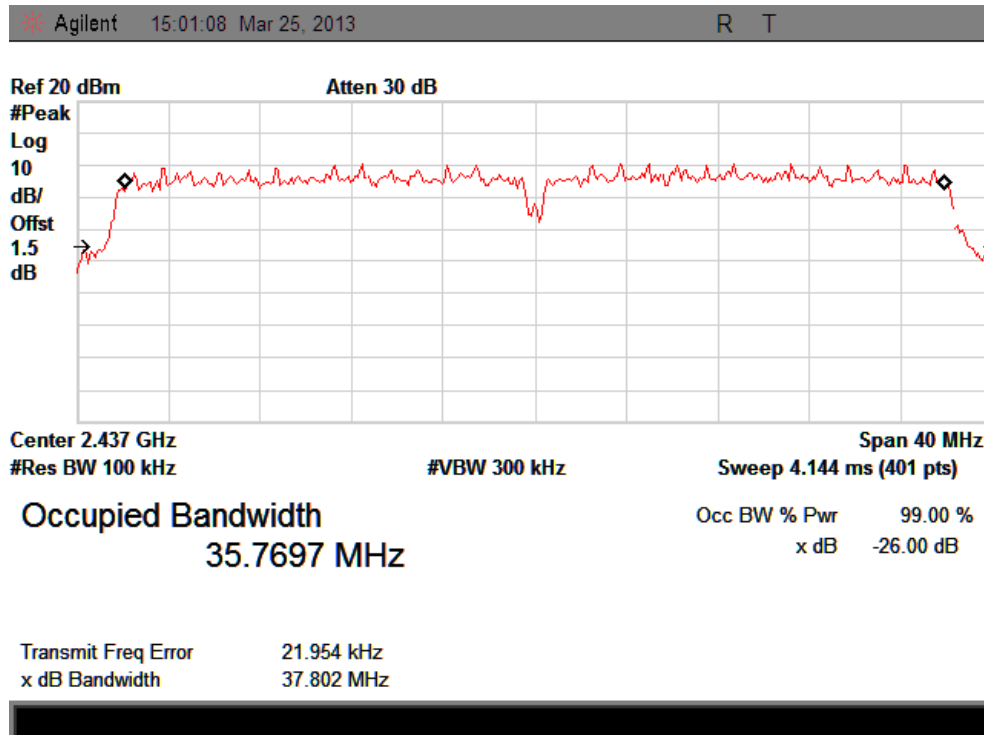
CH High :



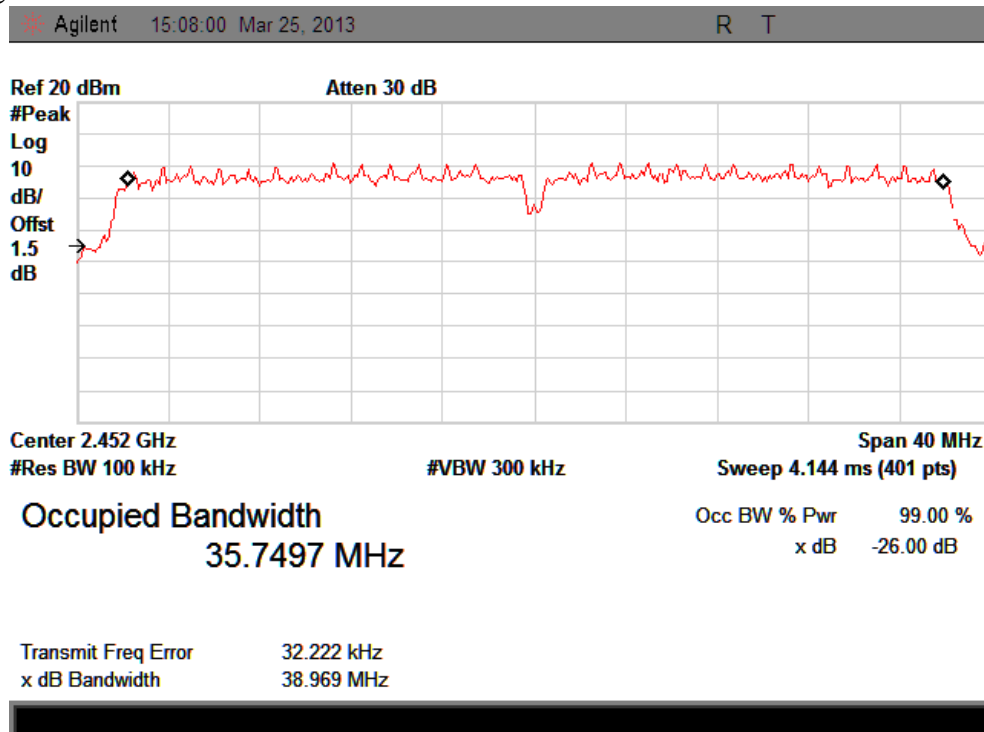
IEEE 802.11n/HT40: CH Low :



CH Mid :

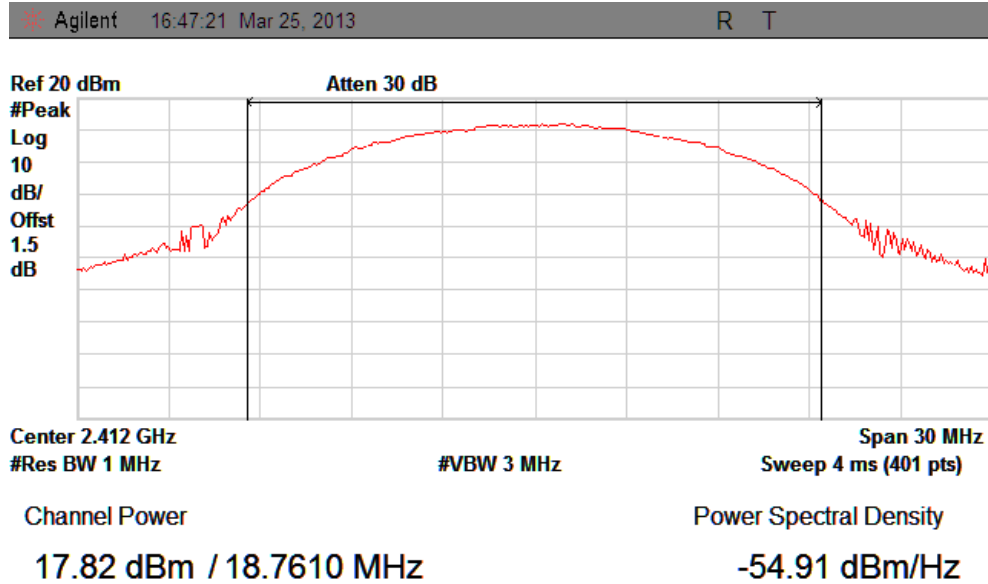


CH High :

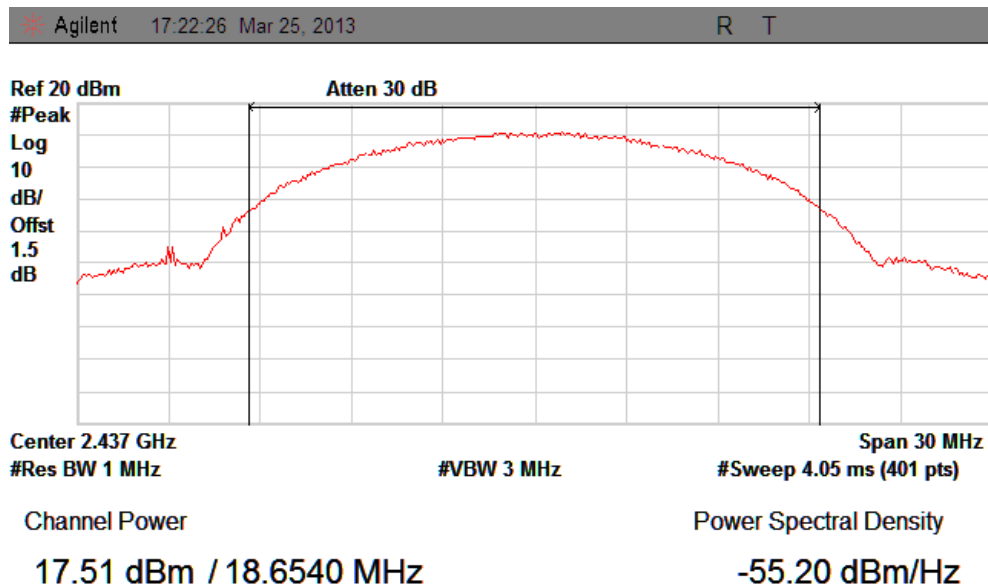


Maximum Peak Conducted Output Power

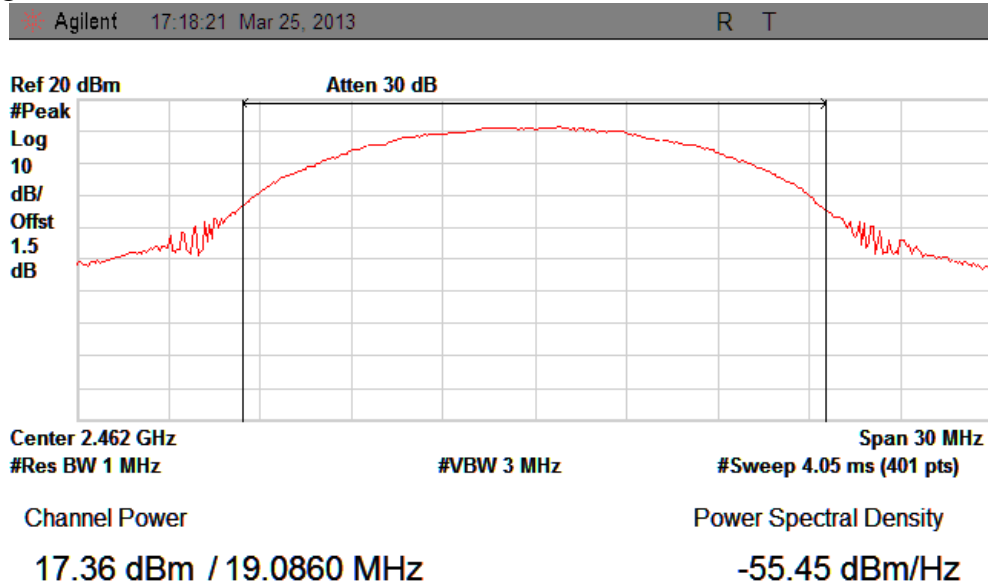
IEEE 802.11b: CH Low :



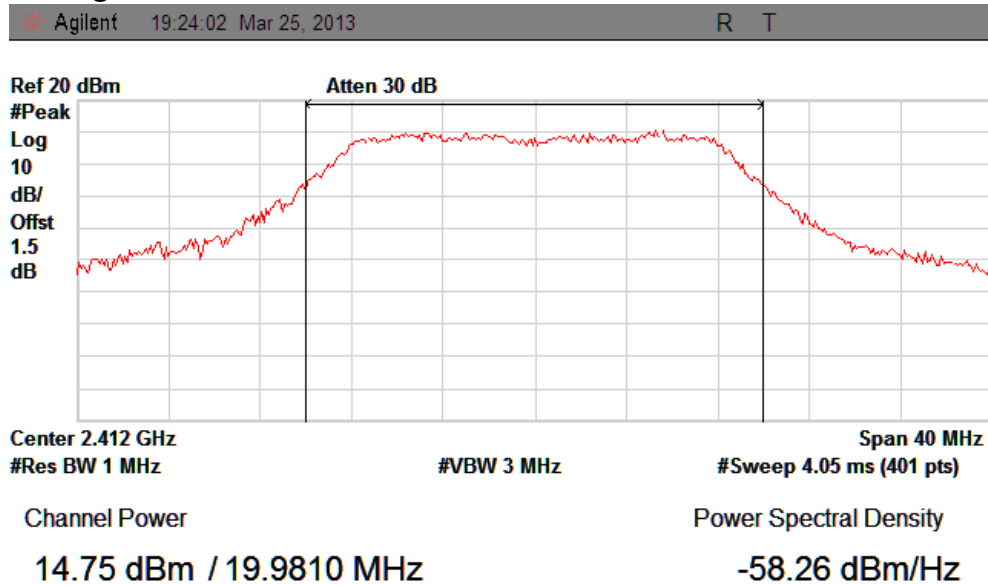
CH Mid :



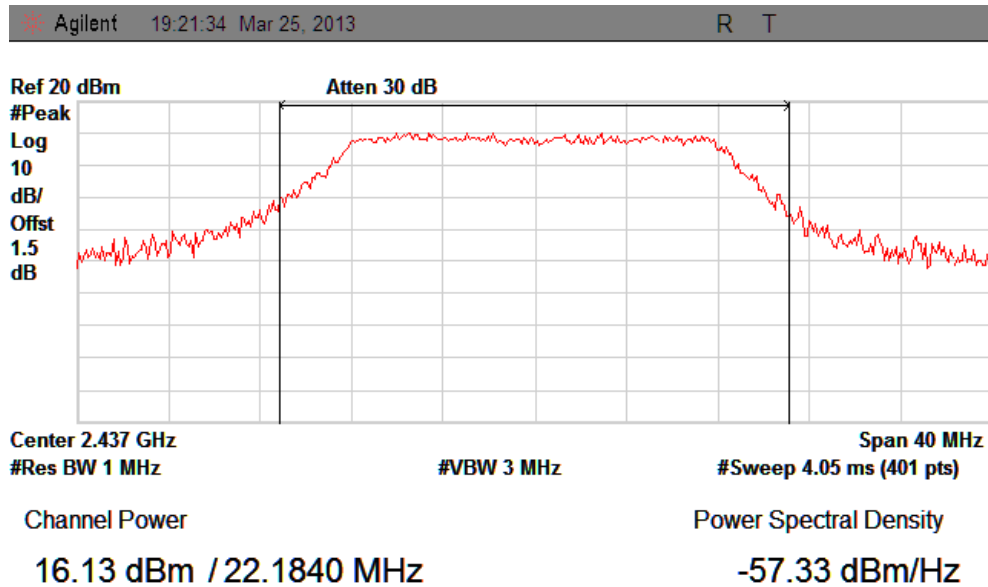
CH High :



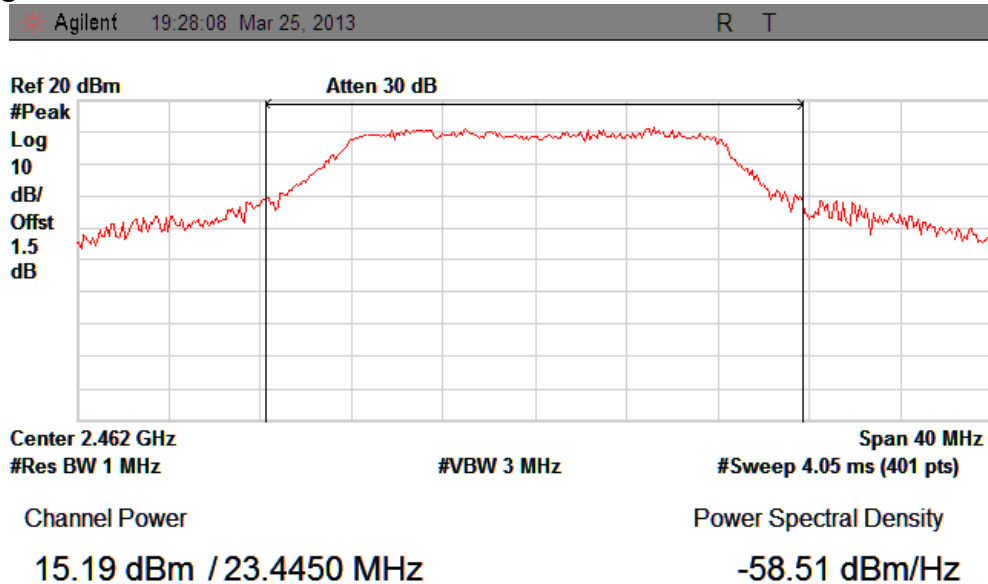
IEEE 802.11g: CH Low :



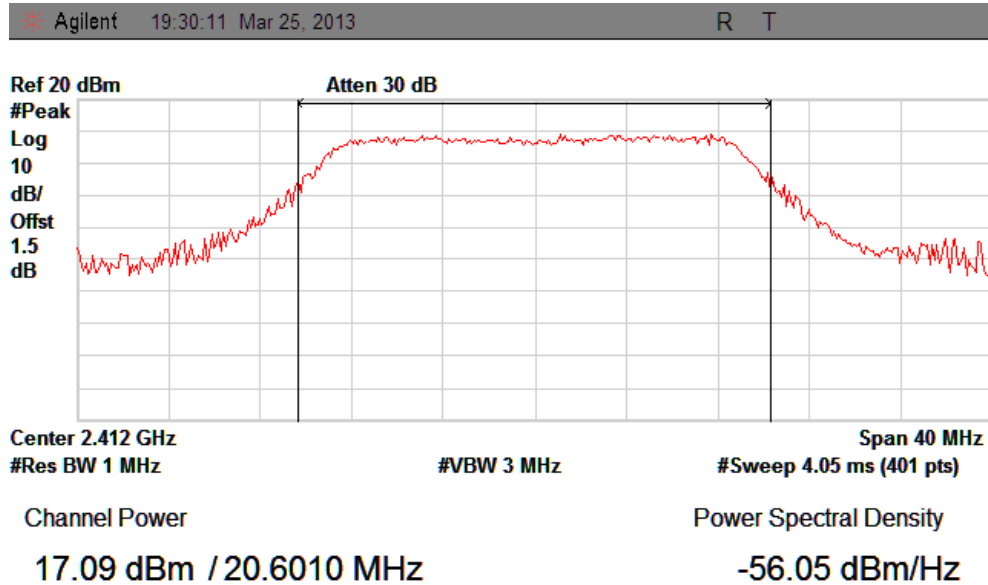
CH Mid :



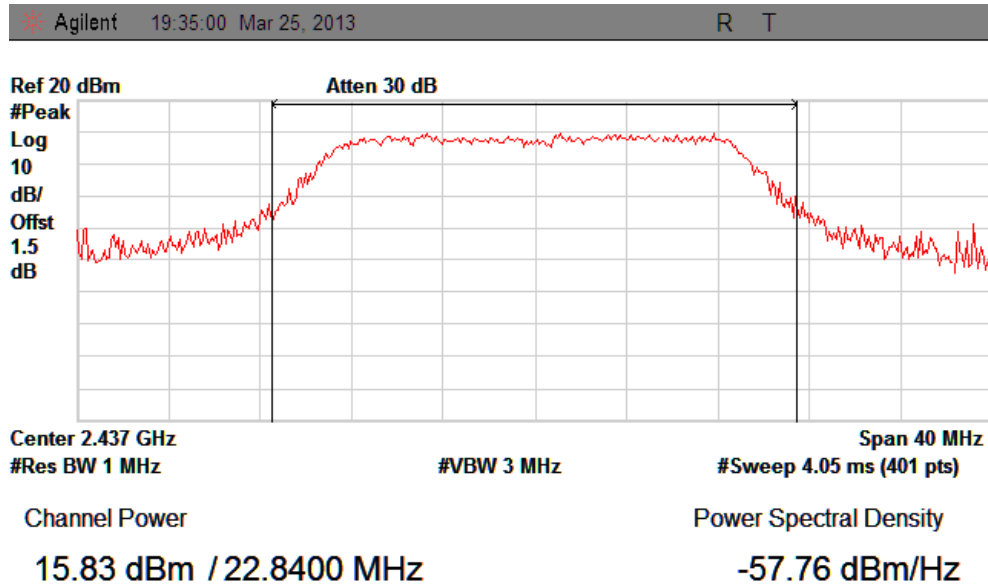
CH High :



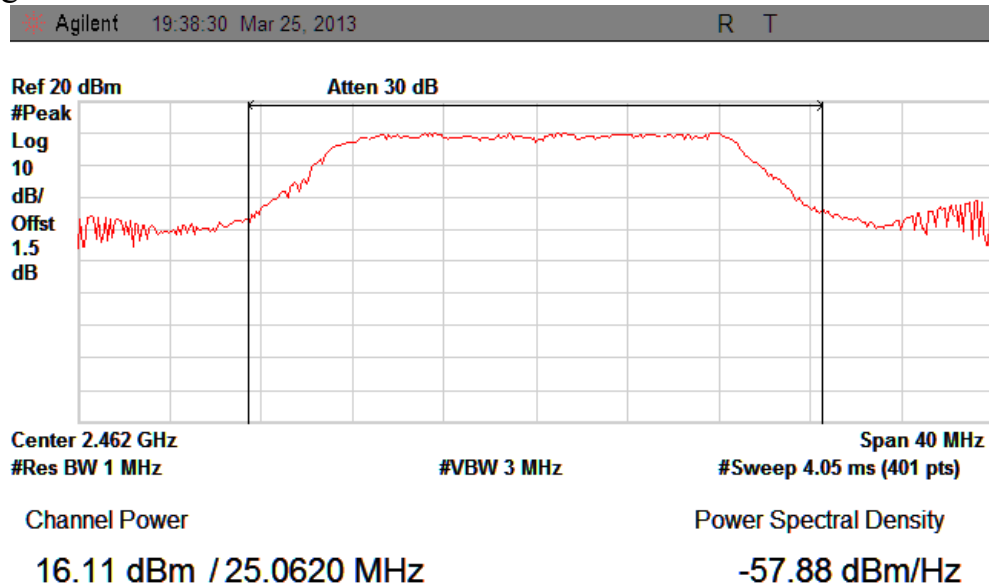
IEEE 802.11n/HT20: CH Low :



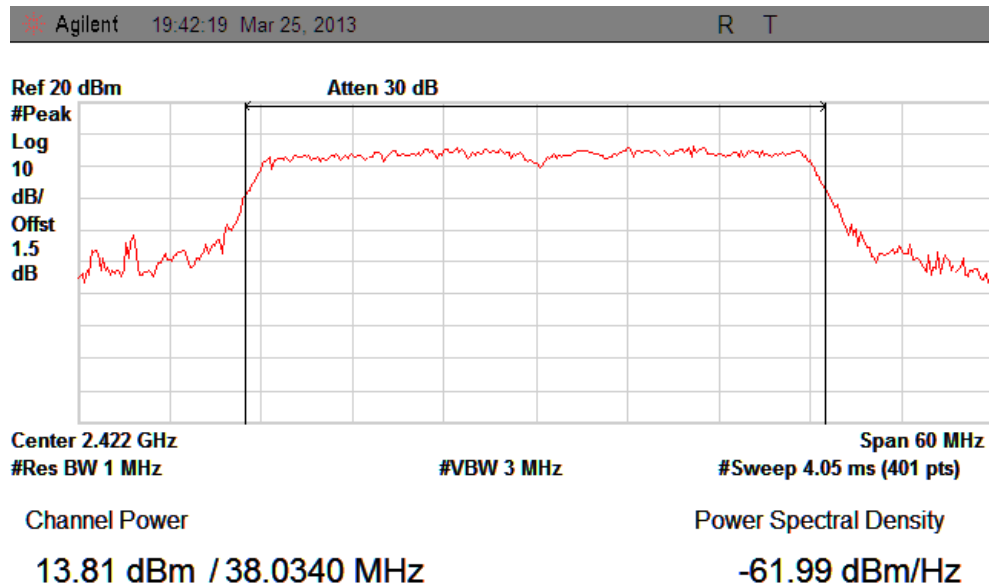
CH Mid :



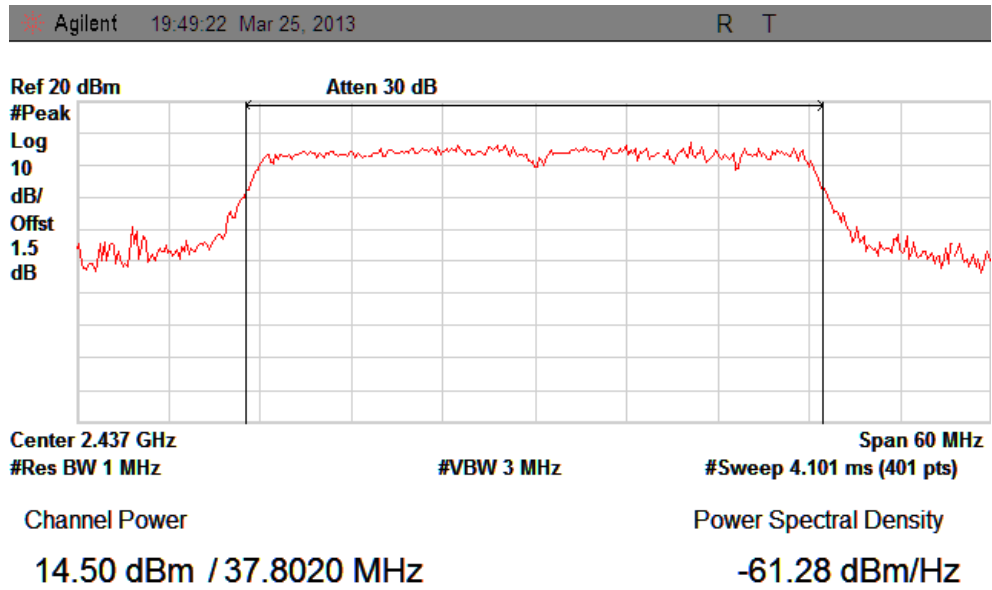
CH High :



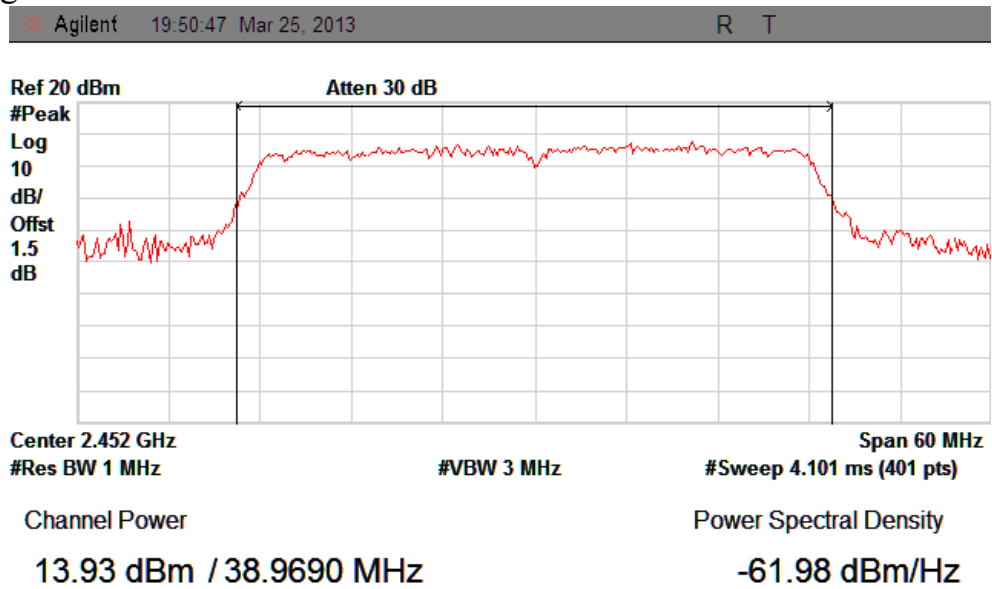
IEEE 802.11n/HT40: CH Low :



CH Mid :

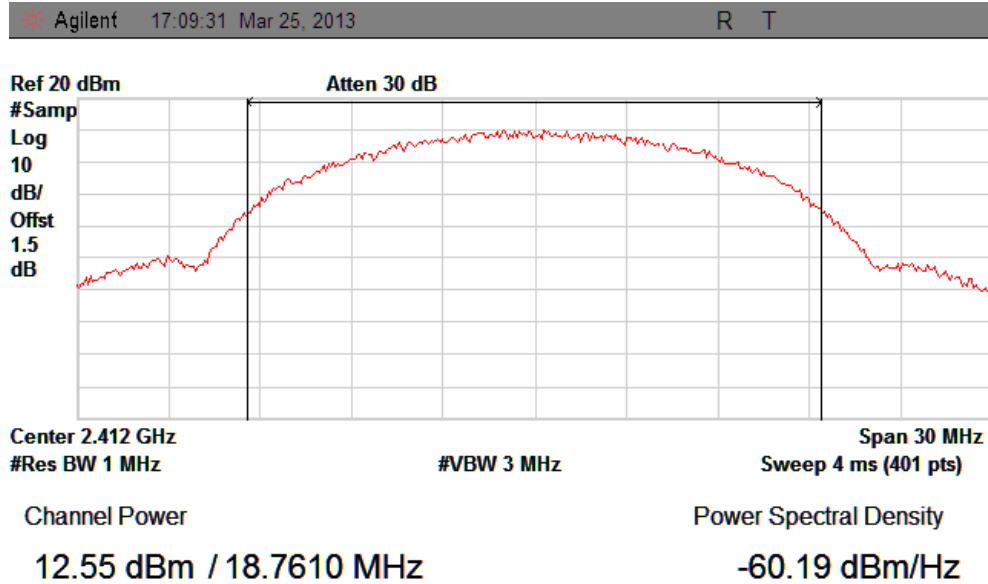


CH High :

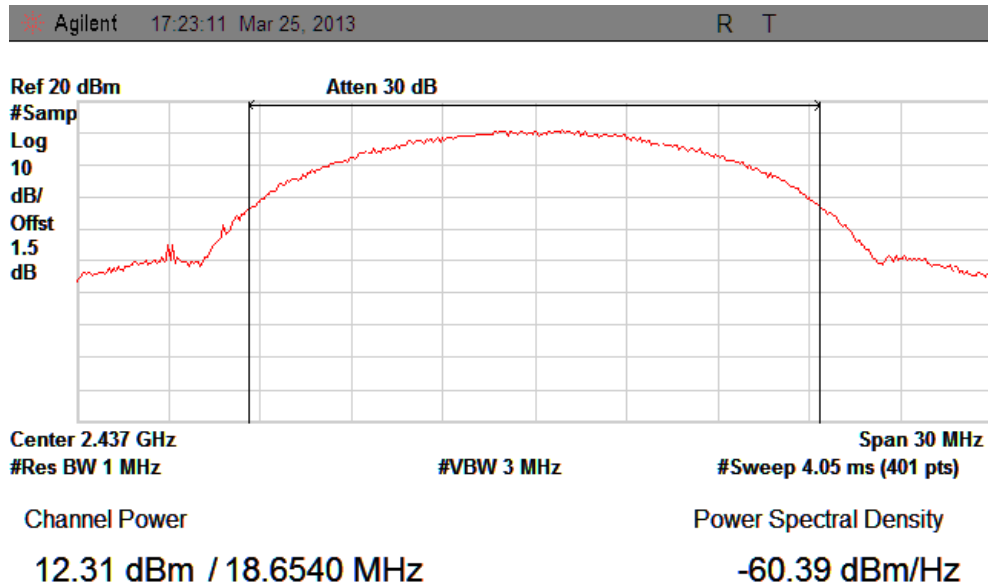


Maximum Average Conducted Output Power

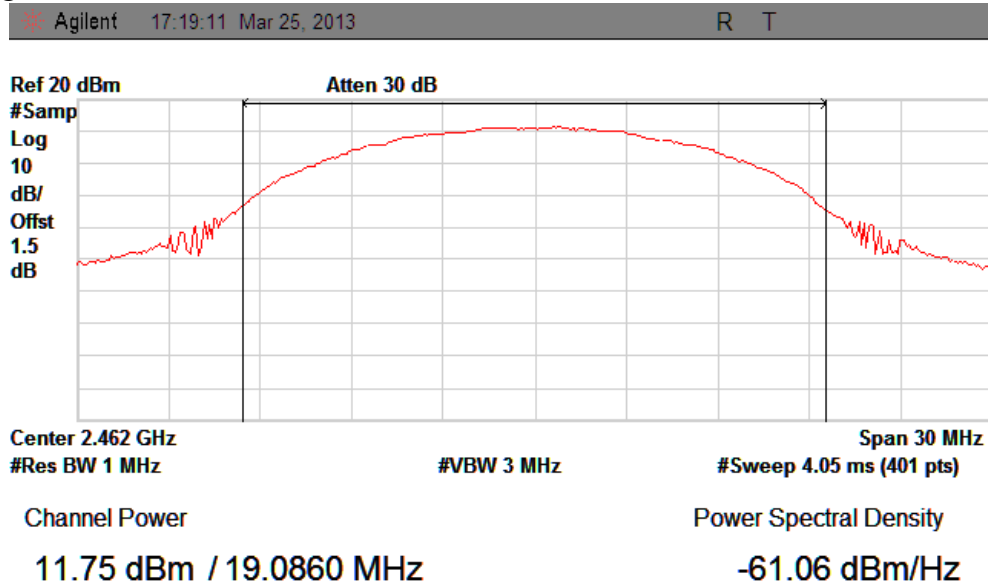
IEEE 802.11b: CH Low :



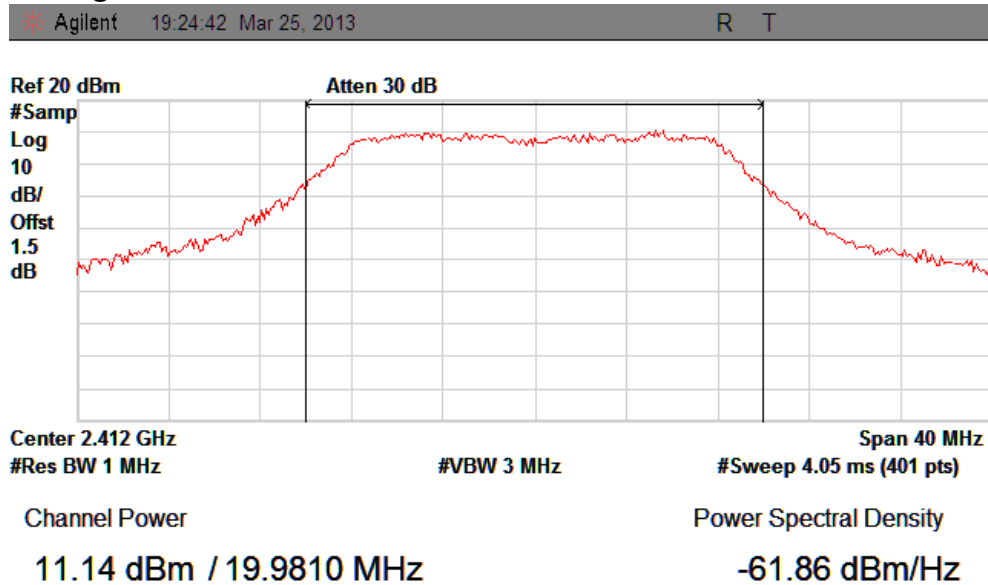
CH Mid :



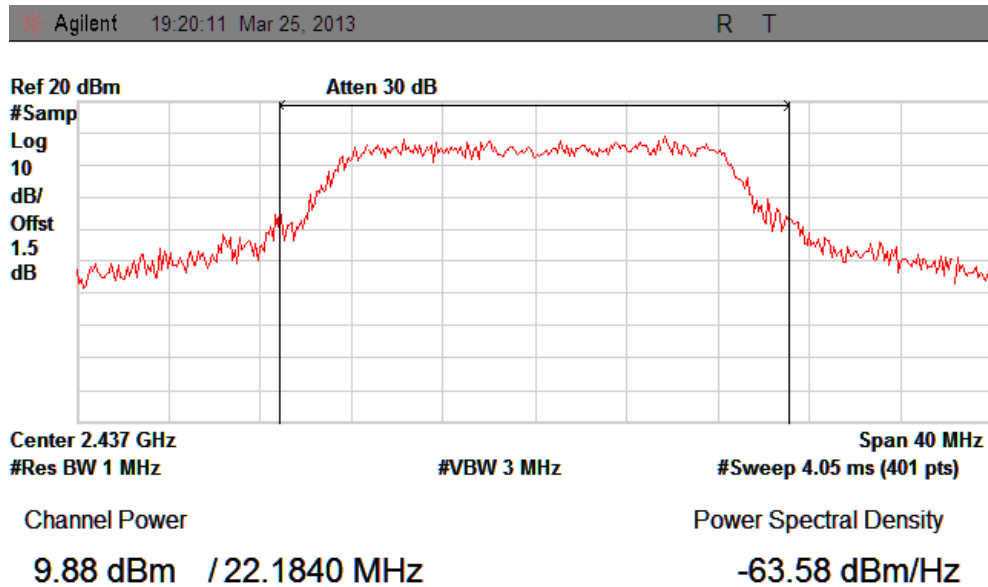
CH High :



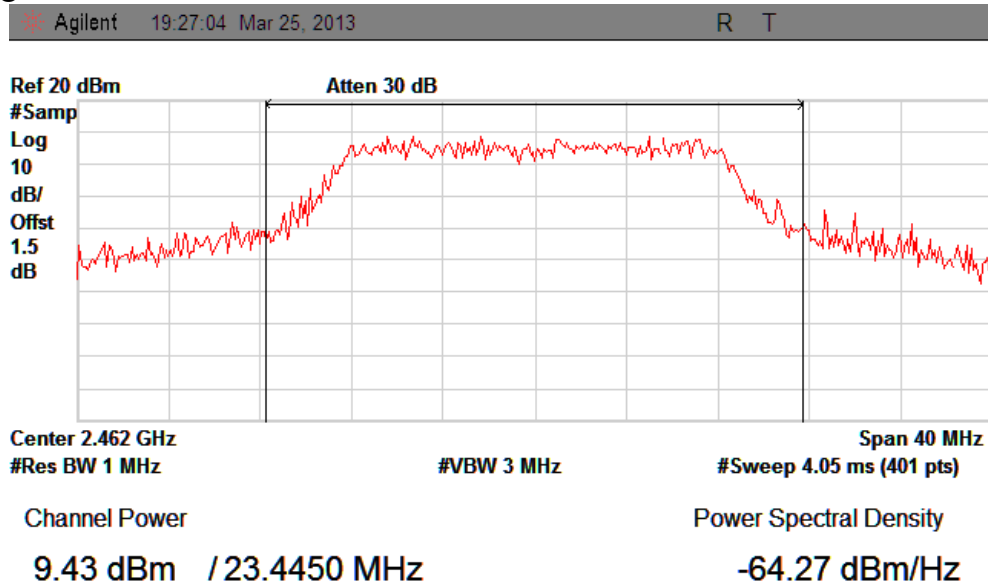
IEEE 802.11g: CH Low :



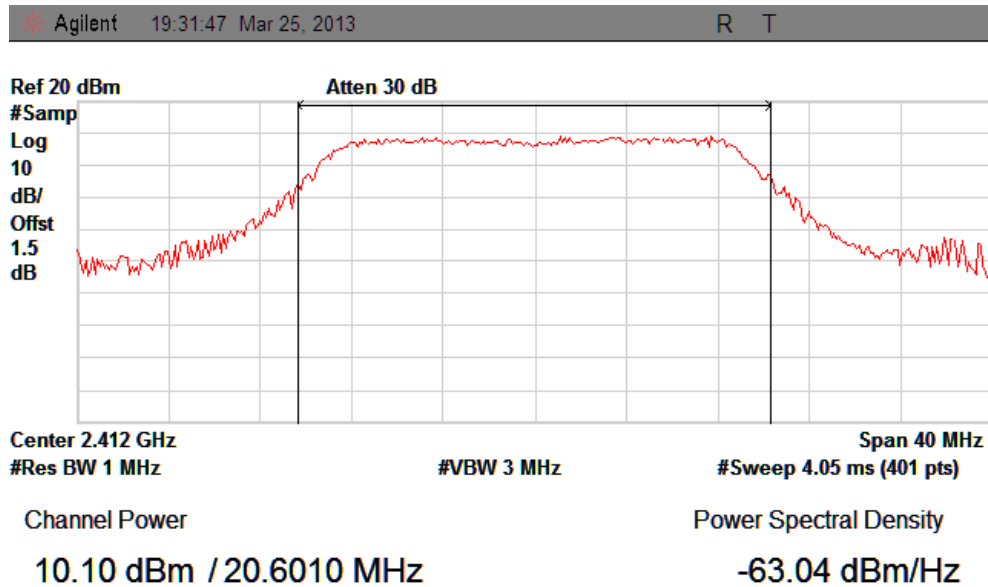
CH Mid :



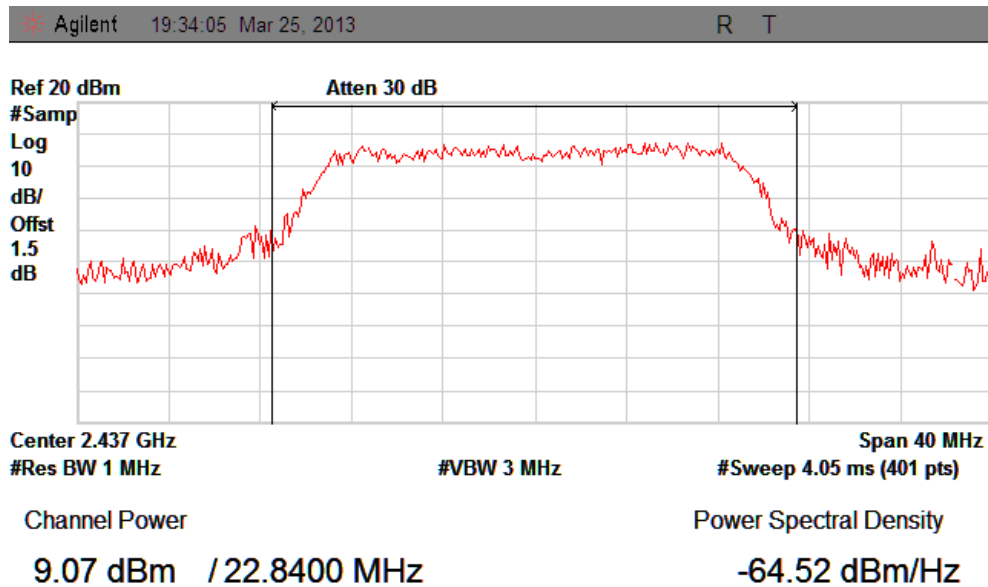
CH High :



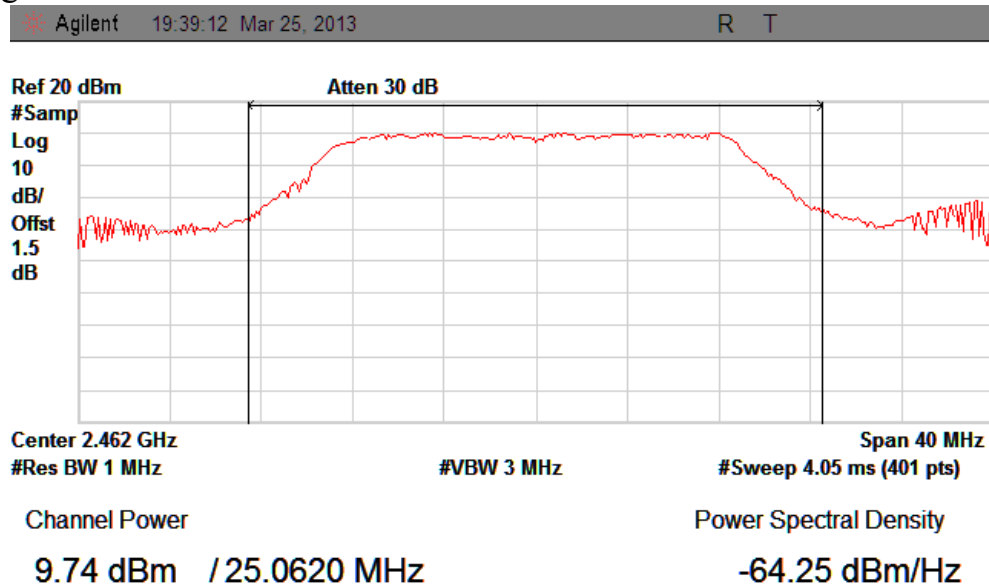
IEEE 802.11n/HT20: CH Low :



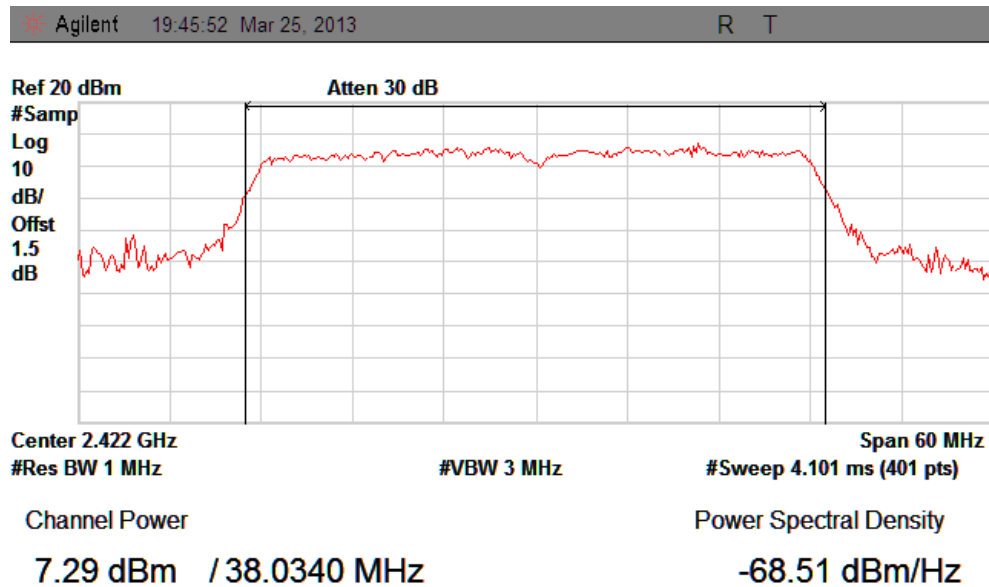
CH Mid :



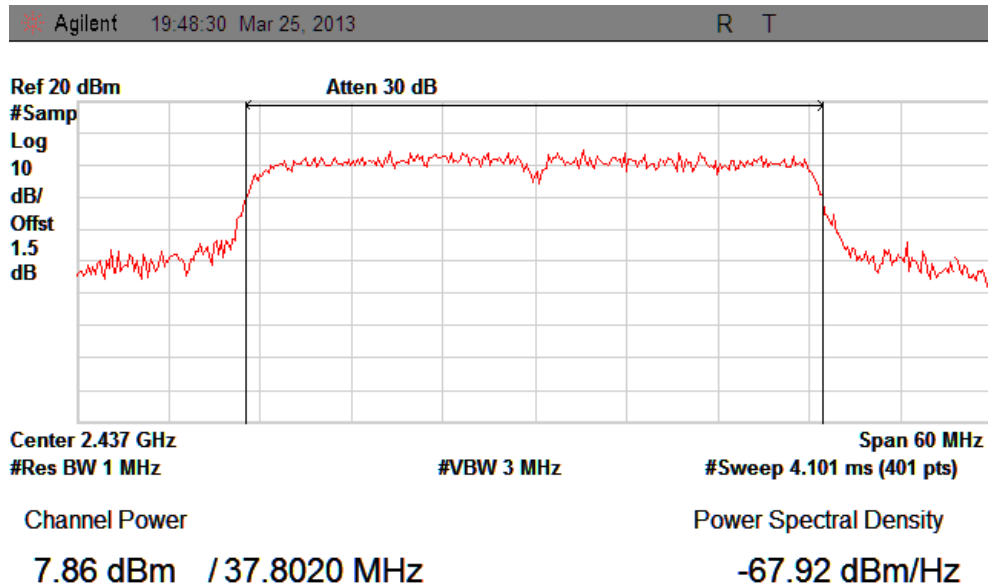
CH High :



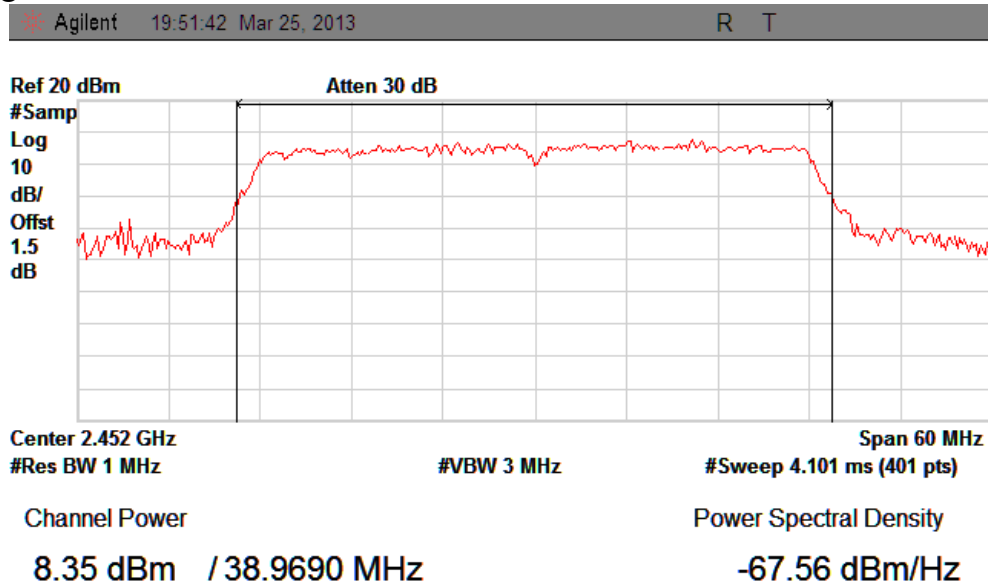
IEEE 802.11n/HT40: CH Low :



CH Mid :



CH High :



8 PEAK POWER SPECTRAL DENSITY

8.1 Test limit

8.1.1 Please refer section 15.247.

8.1.2 For direct sequence systems, the peak 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.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

8.2.1 Place the EUT on the table and set it in transmitting mode.

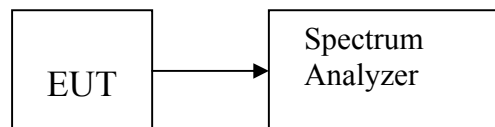
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

8.3 Test Setup



8.4 Test Results

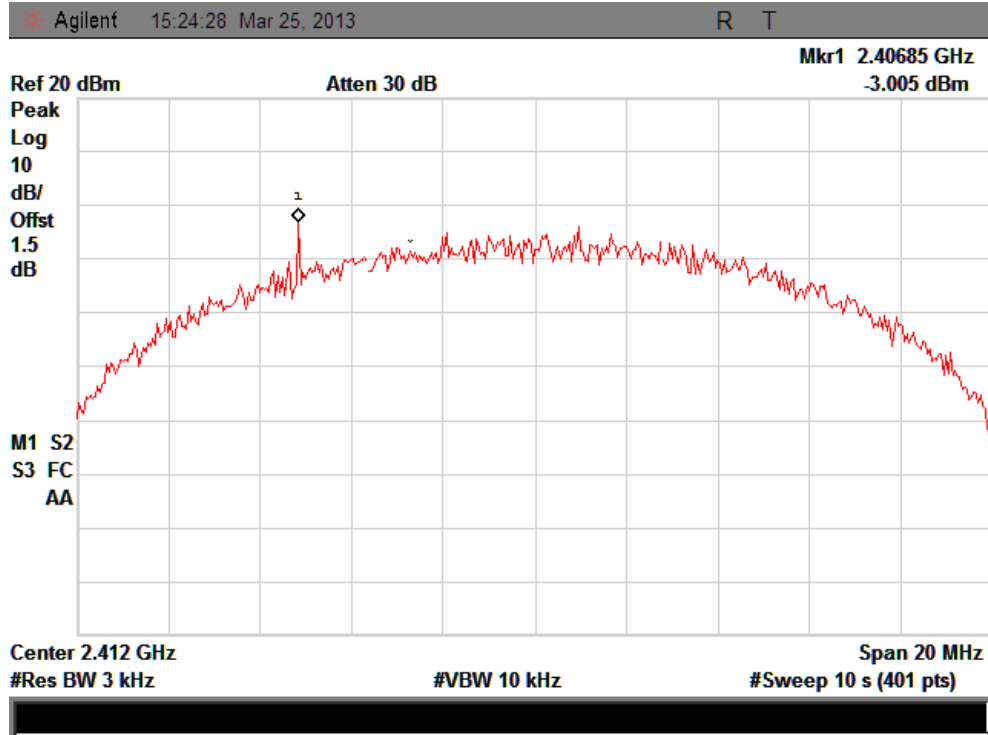
PASS.

Detailed information please see the following page.

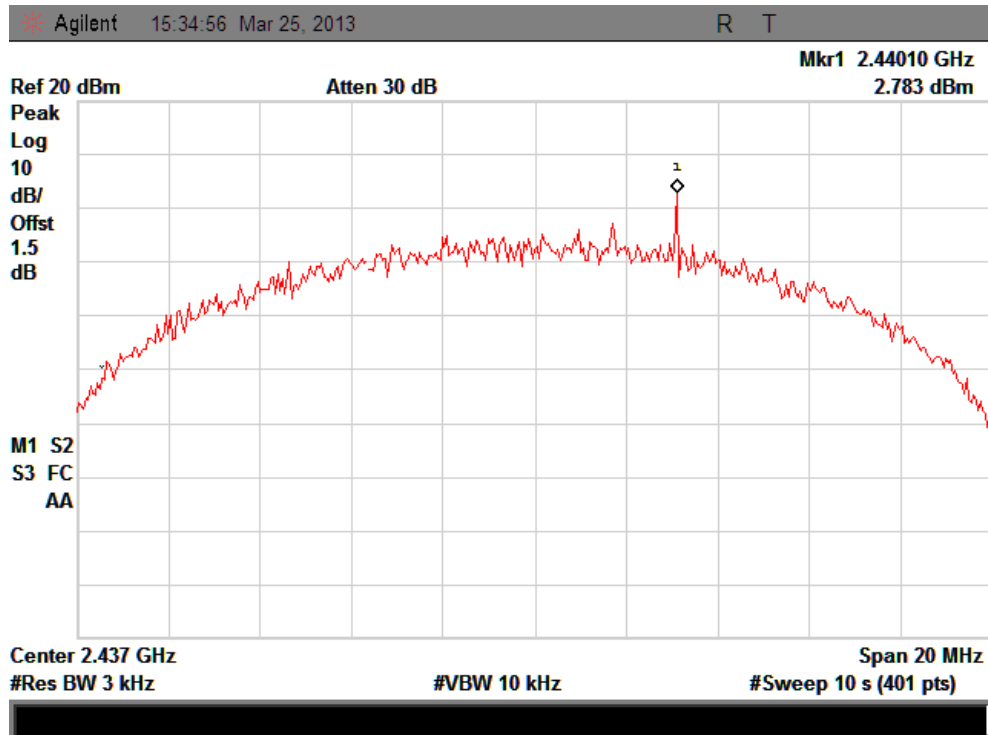
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm)	Result
IEEE 802.11b:				
Low	2412	-3.005	8	PASS
Mid	2437	2.783	8	PASS
High	2462	-4.542	8	PASS
IEEE 802.11g:				
Low	2412	-12.19	8	PASS
Mid	2437	-12.27	8	PASS
High	2462	-11.31	8	PASS
IEEE 802.11n/HT20:				
Low	2412	-12.02	8	PASS
Mid	2437	-11.75	8	PASS
High	2462	-10.51	8	PASS
IEEE 802.11n/HT40:				
Low	2422	-12.05	8	PASS
Mid	2437	-11.90	8	PASS
High	2452	-12.55	8	PASS

IEEE 802.11b:

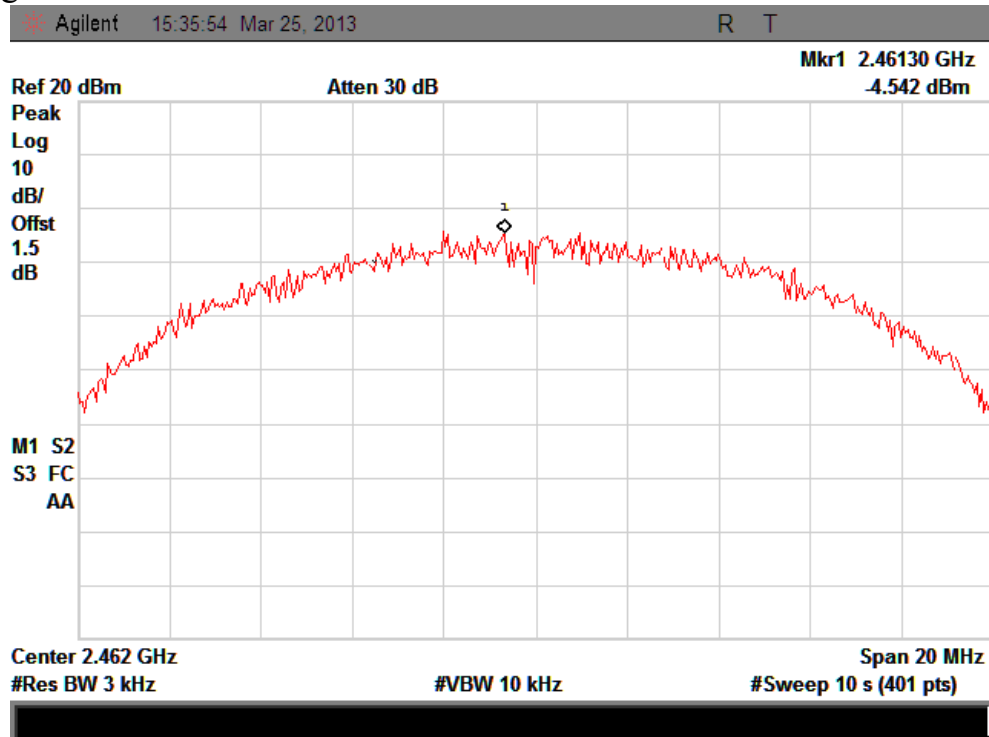
CH Low :



CH Mid :

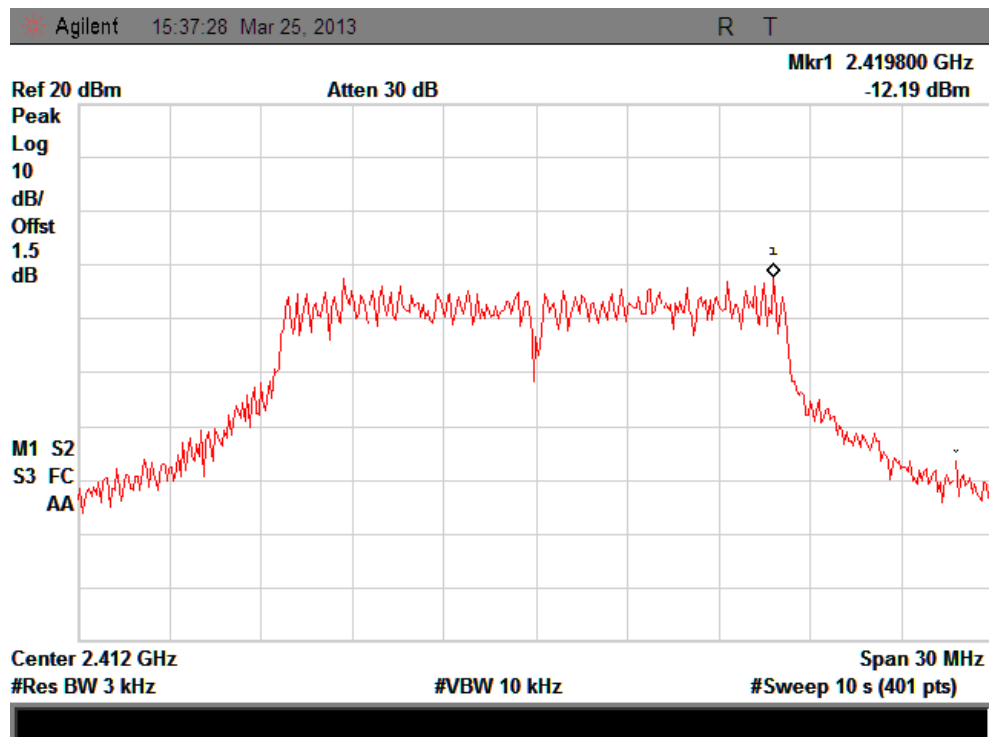


CH High :

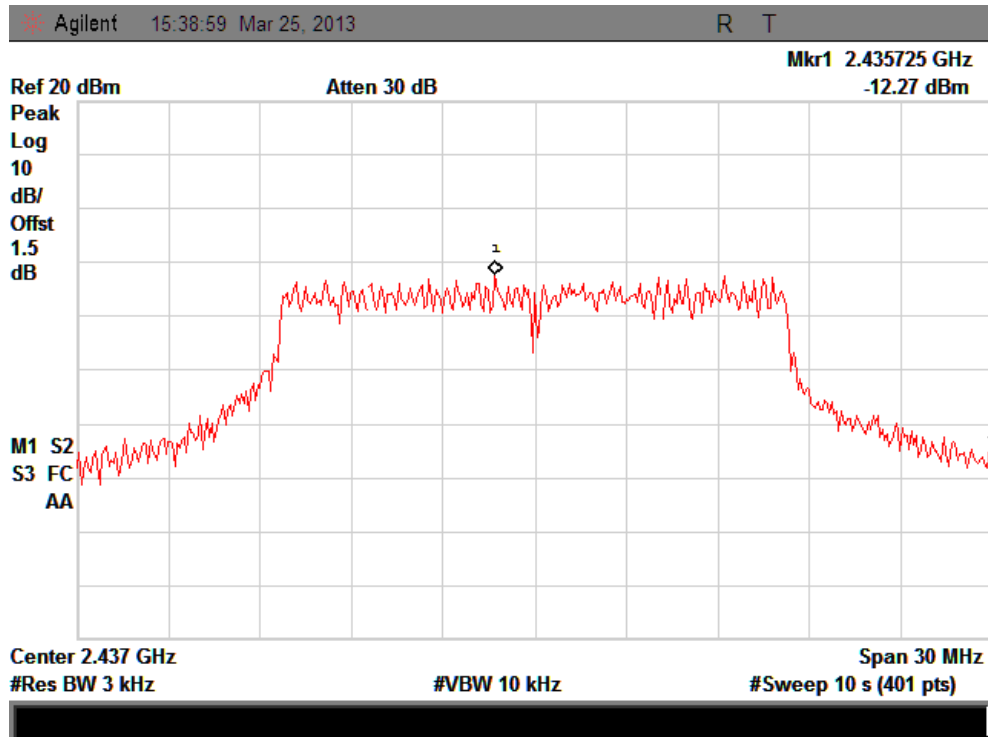


IEEE 802.11g:

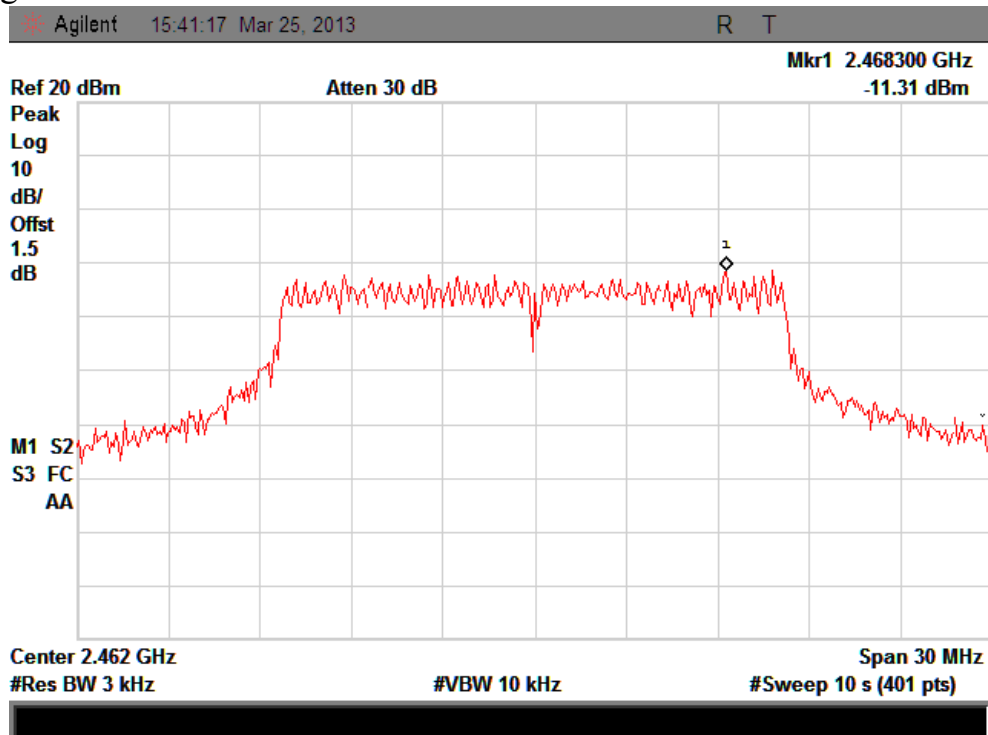
CH Low :



CH Mid :

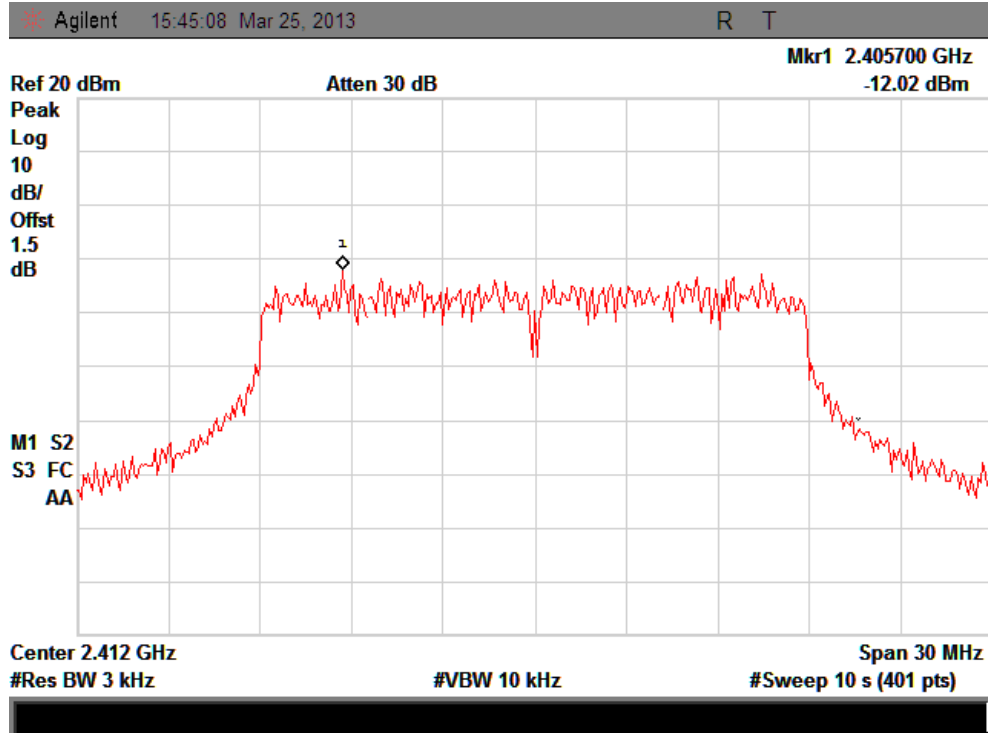


CH High :

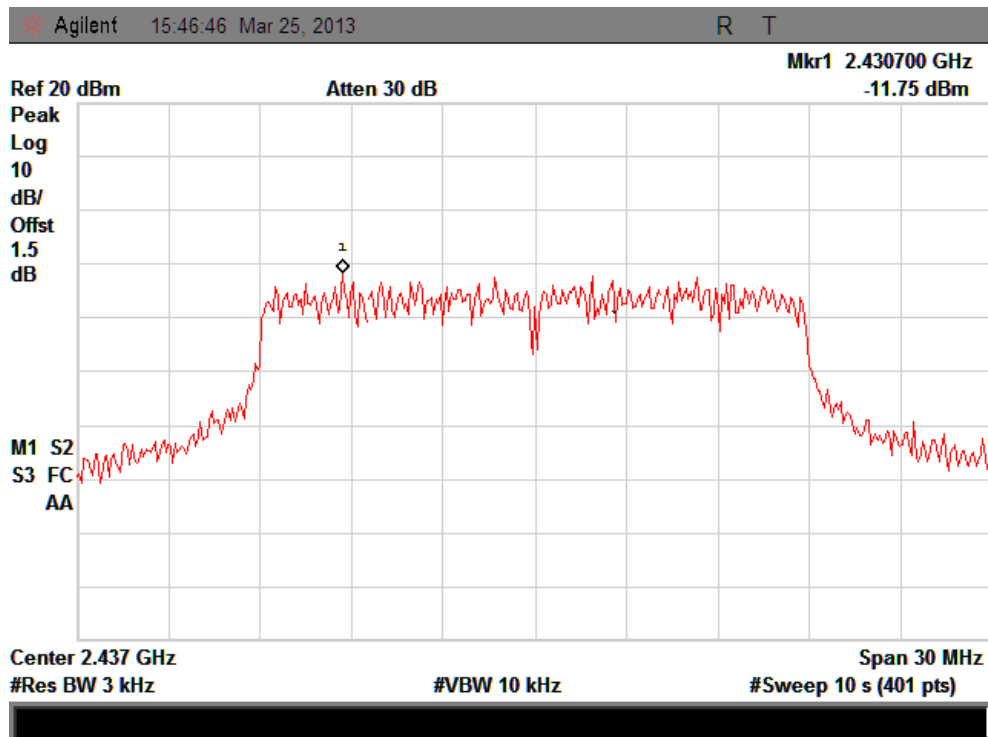


IEEE 802.11n/HT20:

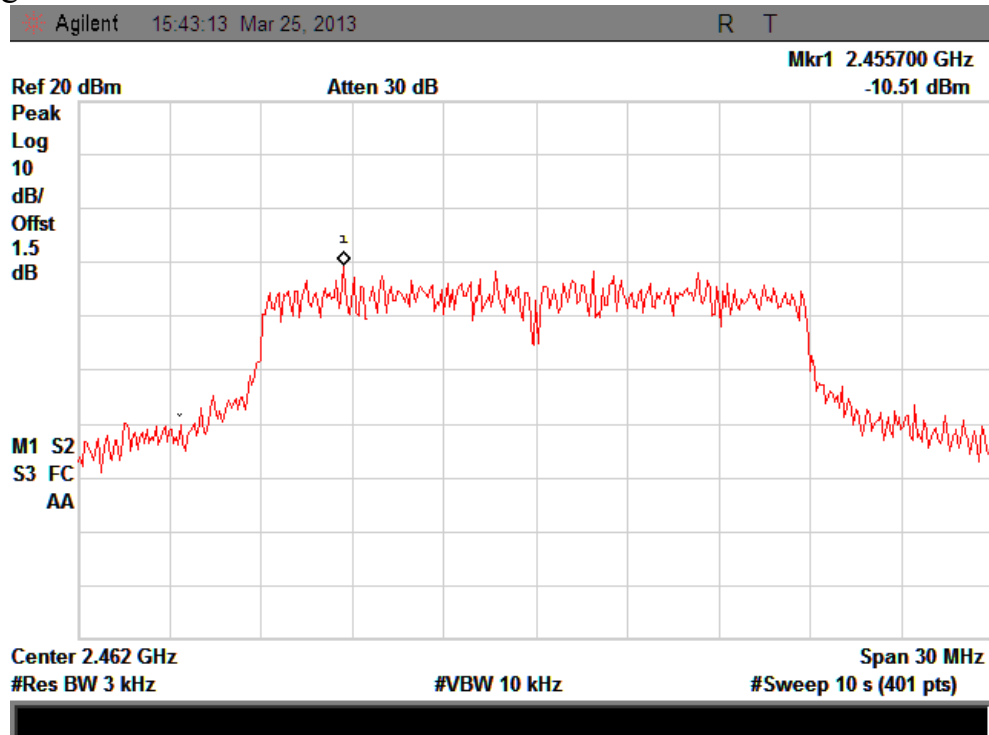
CH Low :



CH Mid :

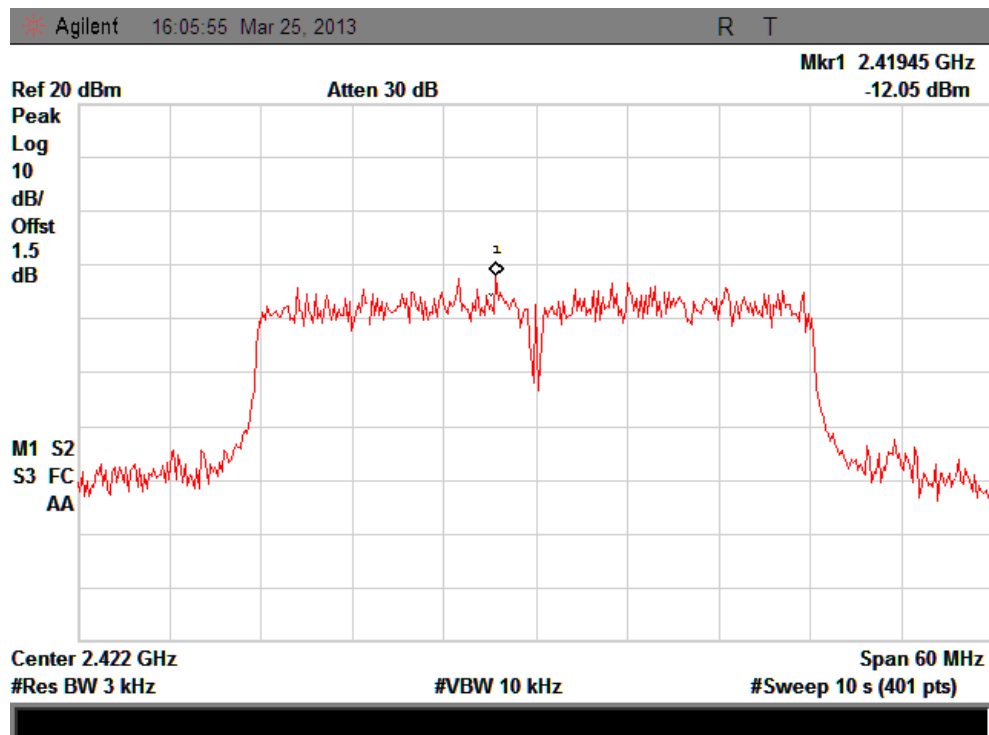


CH High :

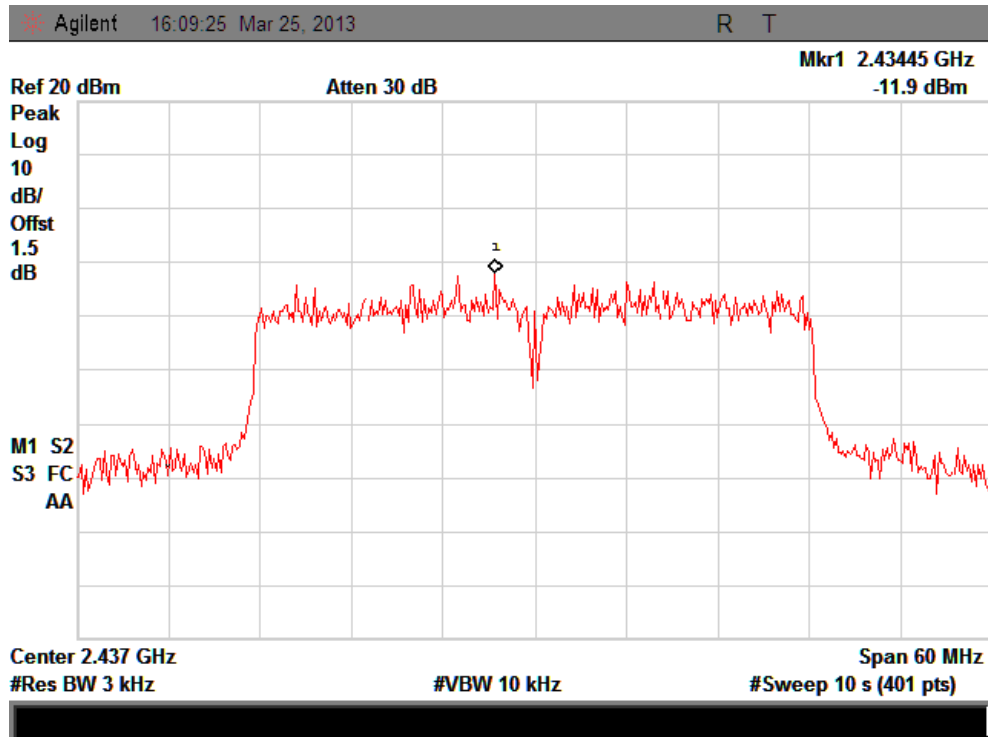


IEEE 802.11n/HT40:

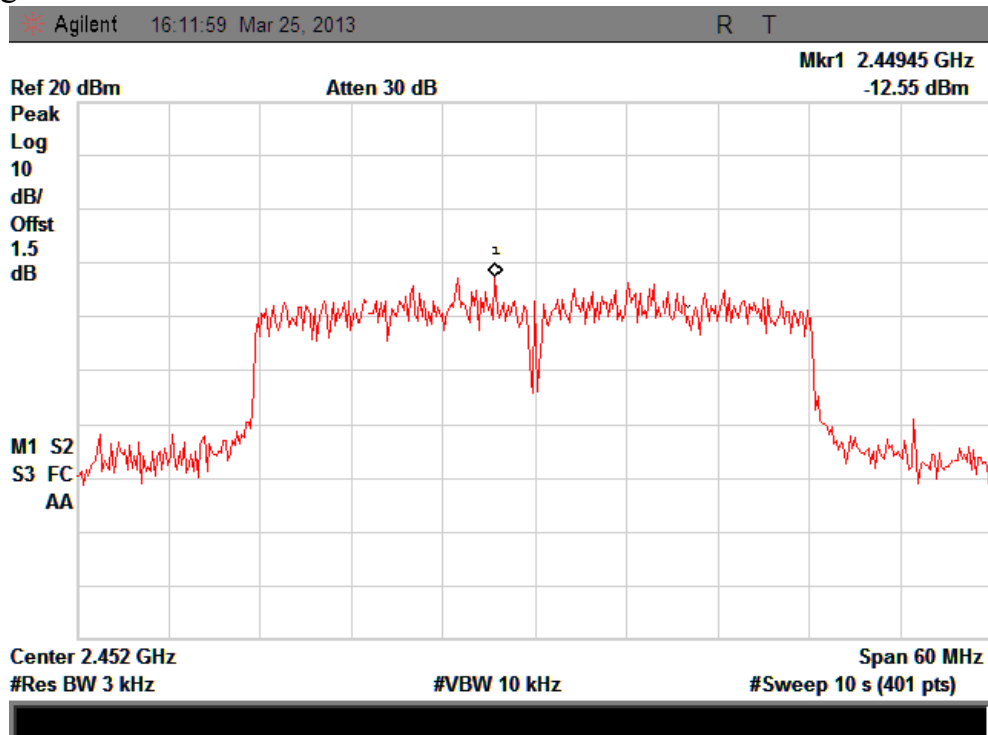
CH Low :



CH Mid :



CH High :



9 6dB Bandwidth

9.1 Test limit

Please refer section 15.247

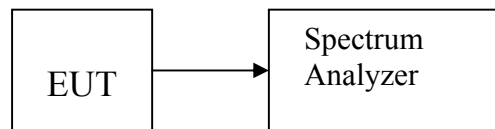
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set $RBW = 1-5 \% EBW$, $VBW \geq 3RBW$, Sweep time set auto, detail see the test plot.

9.3 Test Setup



9.4 Test Results

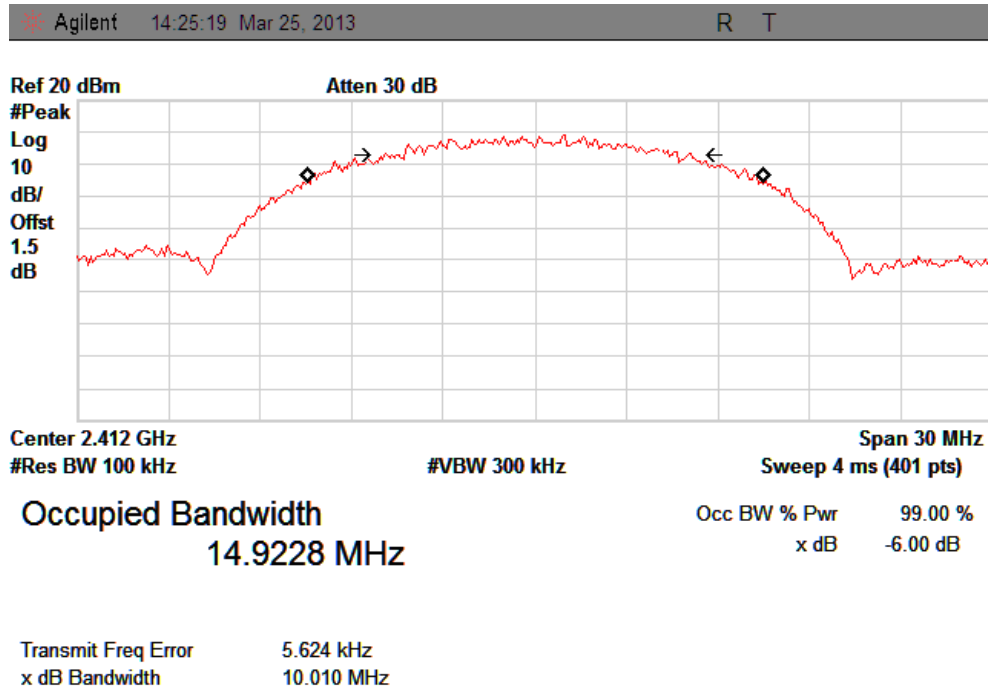
PASS.

Detailed information please see the following page.

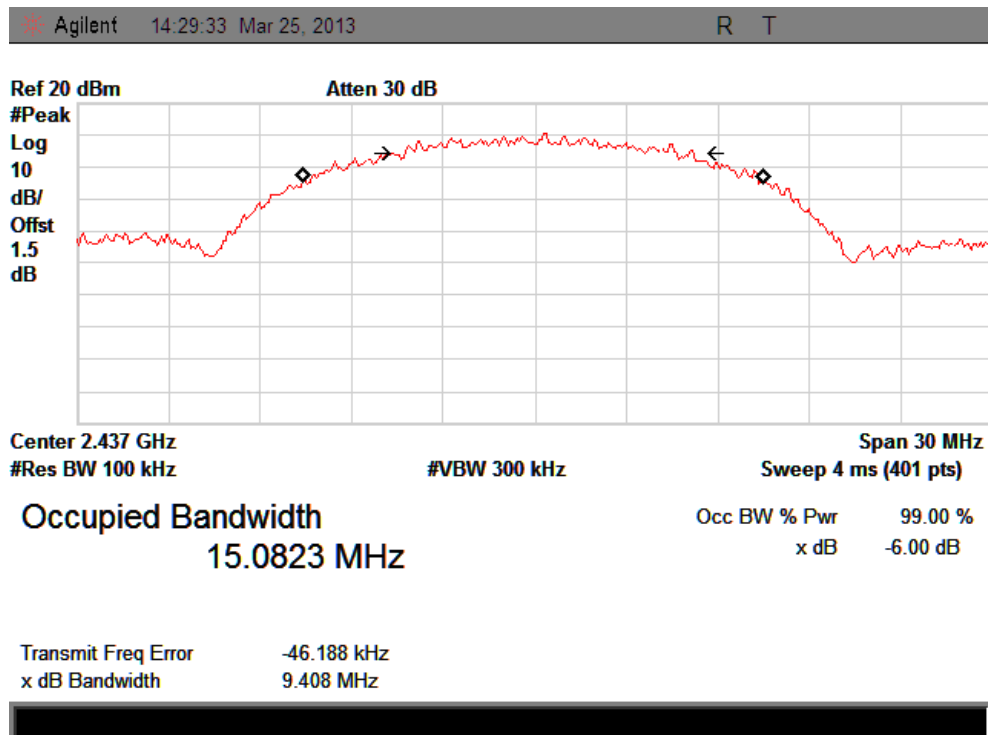
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:				
Low	2412	10.010	0.5	PASS
Mid	2437	9.408	0.5	PASS
High	2462	10.030	0.5	PASS
IEEE 802.11g:				
Low	2412	16.488	0.5	PASS
Mid	2437	16.450	0.5	PASS
High	2462	16.434	0.5	PASS
IEEE 802.11n/HT20:				
Low	2412	17.696	0.5	PASS
Mid	2437	17.656	0.5	PASS
High	2462	17.655	0.5	PASS
IEEE 802.11n/HT40:				
Low	2422	35.292	0.5	PASS
Mid	2437	35.212	0.5	PASS
High	2452	35.350	0.5	PASS

IEEE 802.11b:

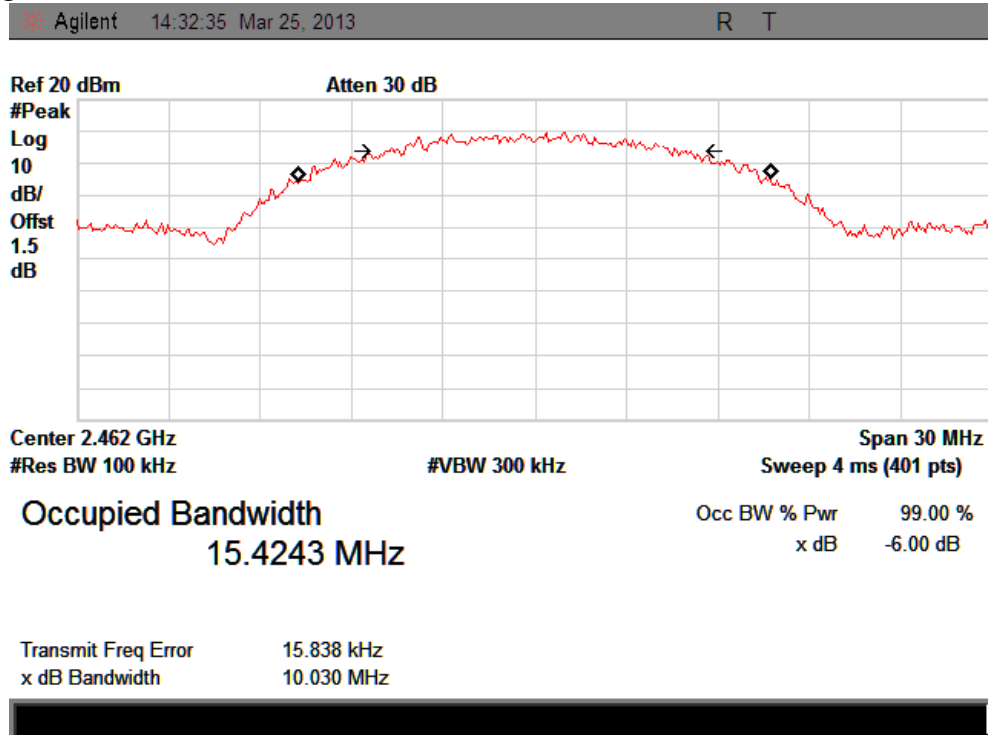
CH Low :



CH Mid :

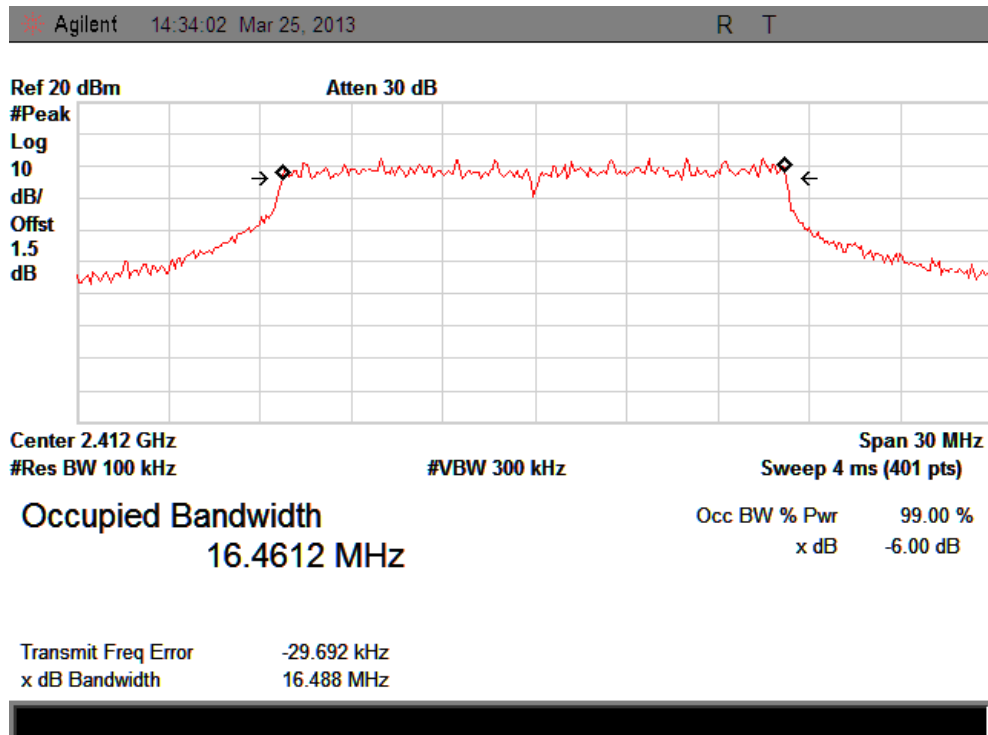


CH High :

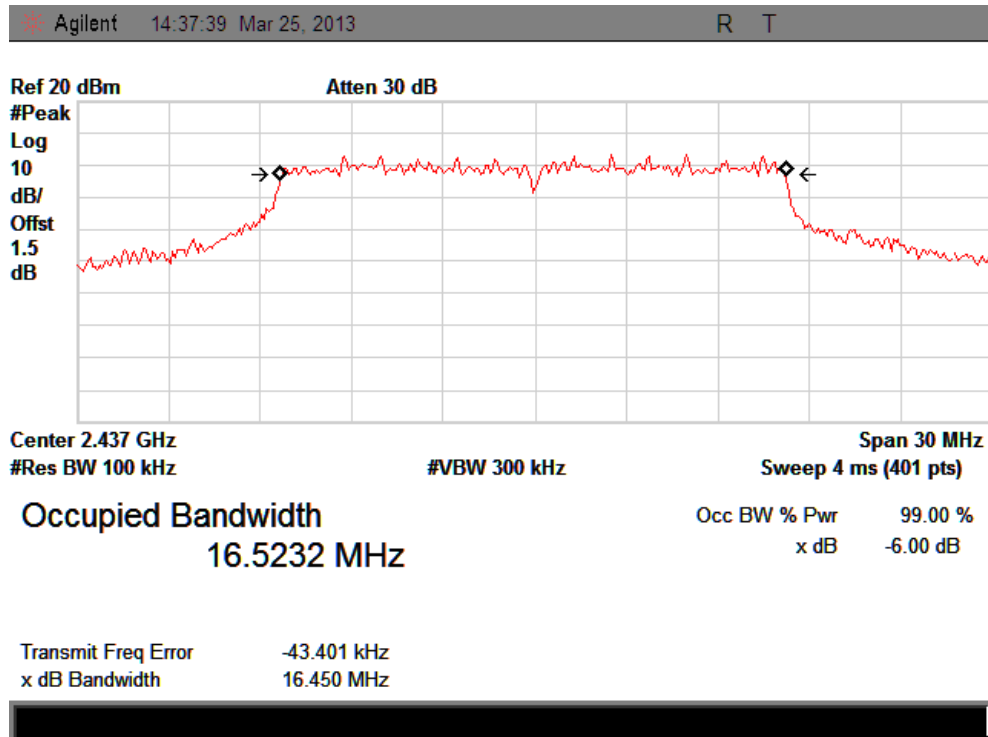


IEEE 802.11g:

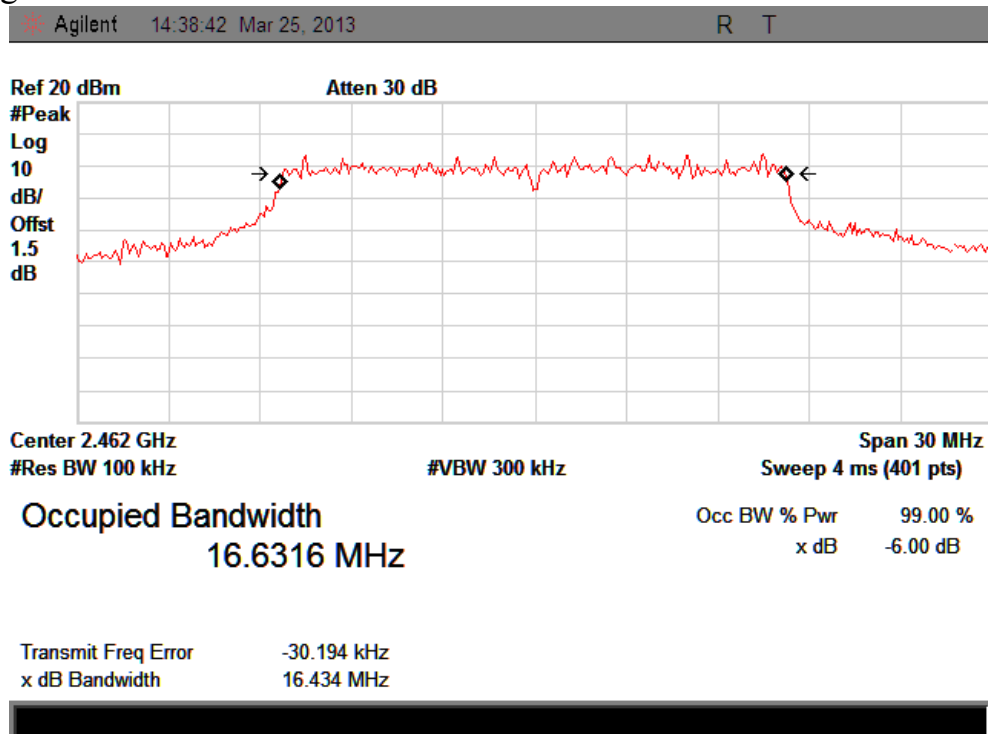
CH Low :



CH Mid :

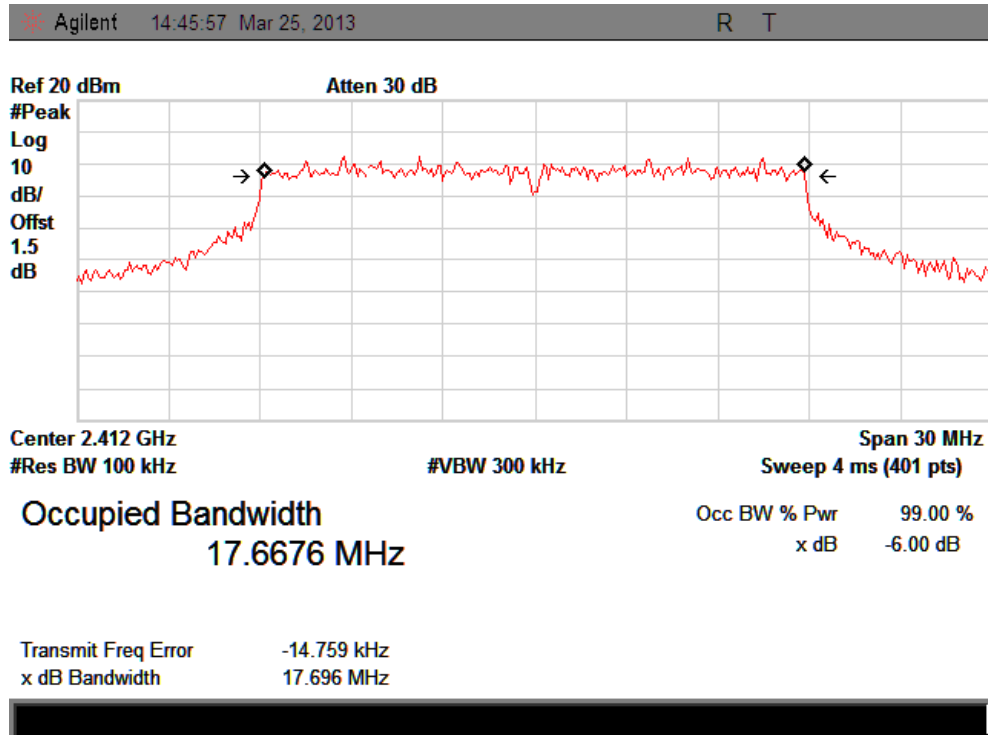


CH High :

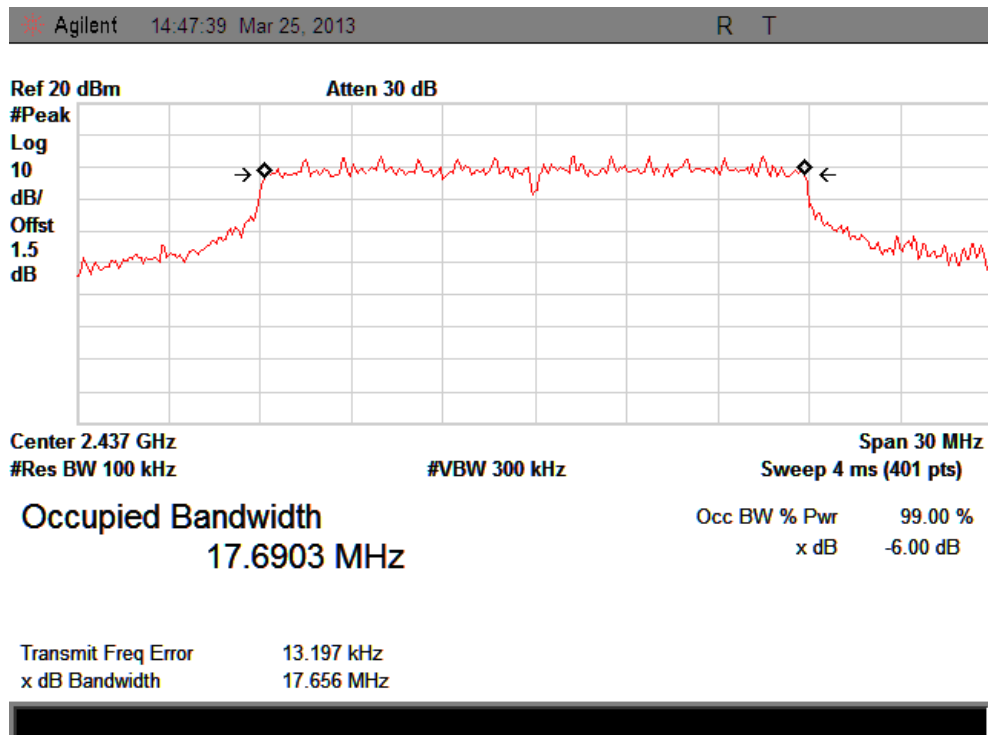


IEEE 802.11n/HT20:

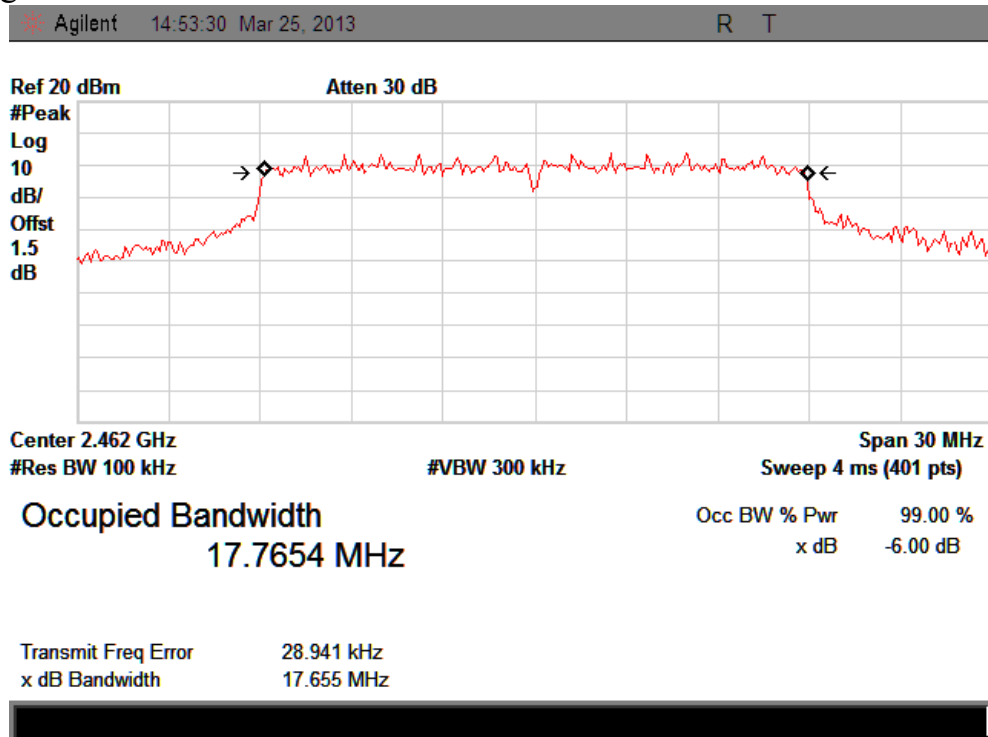
CH Low :



CH Mid :

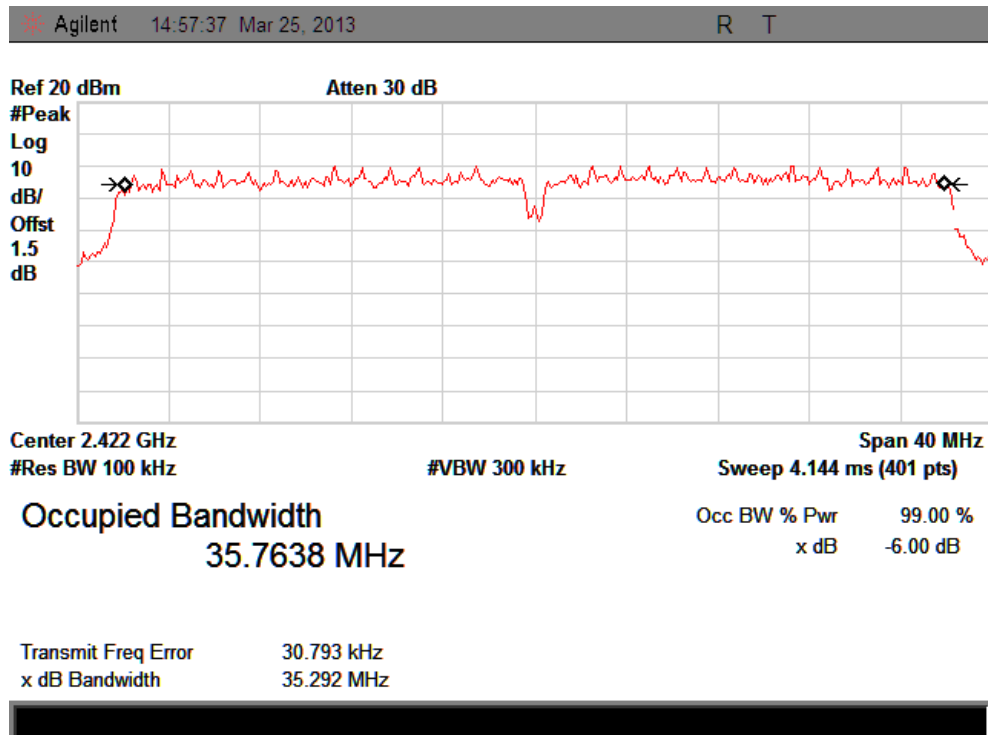


CH High :

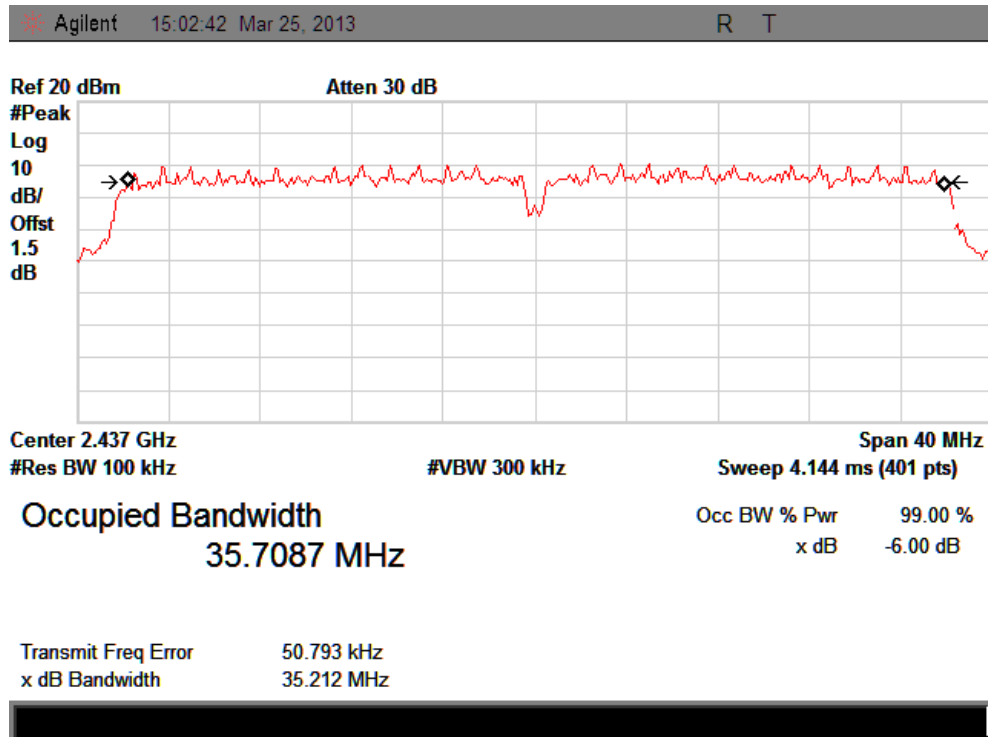


IEEE 802.11n/HT40:

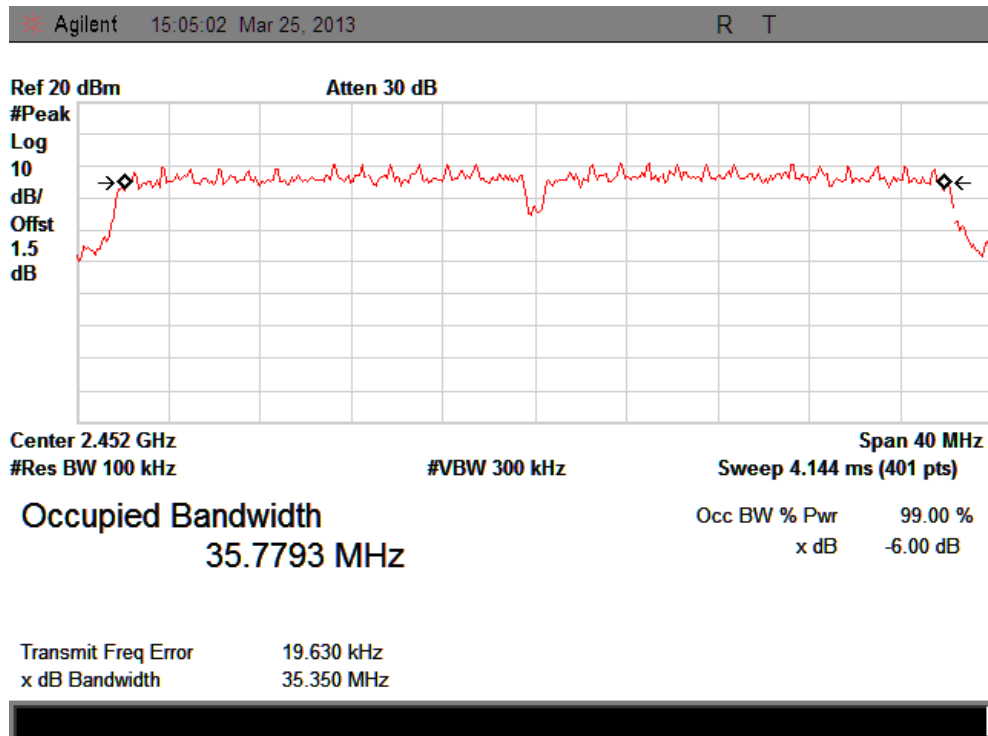
CH Low :



CH Mid :



CH High :



10 Band Edge Check

10.1 Test limit

Please refer section 15.247

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.

10.2 Test Procedure

- 12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 12.2.2 Check the spurious emissions out of band.
- 12.2.3 RBW,VBW Setting, please see the following test plot.

10.3 Test Setup

Same as 5.2.2.

10.4 Test Result

PASS.

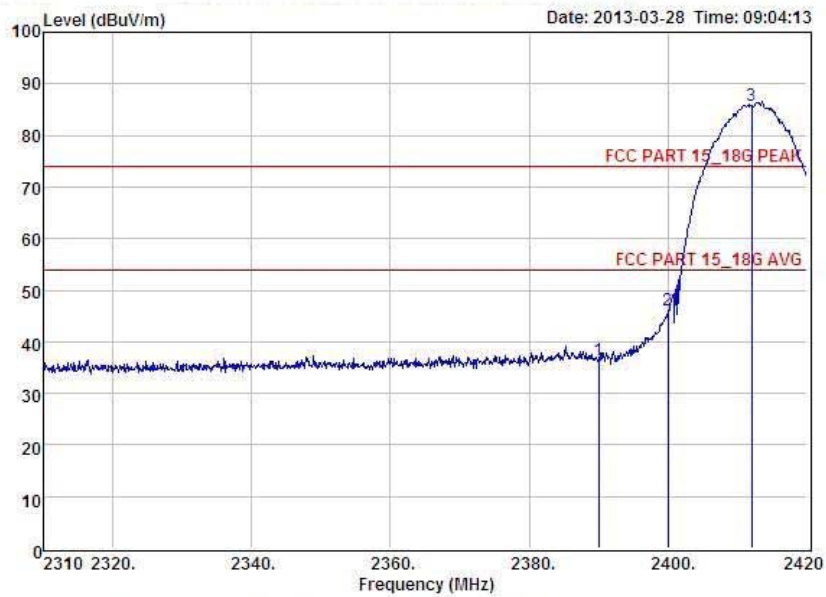
Detailed information please see the following page.

Report No.: STI130309039

IEEE 802.11b:
CH LOW :



Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
Tel: 4006786199 FAX: +86-755-26736857
Website: <http://www.cessz.com> Email: Service@cessz.com



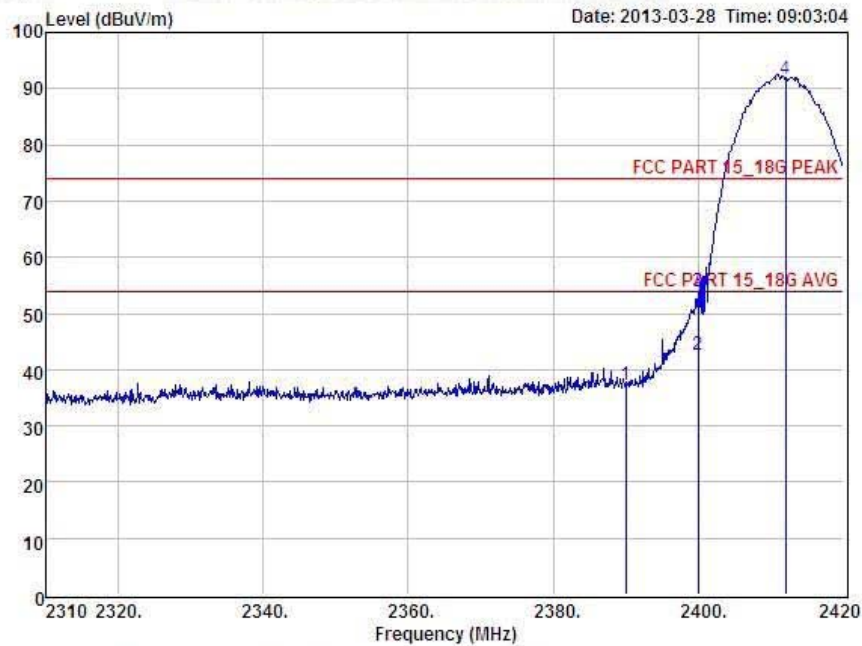
Condition : FCC PART 15_18G PEAK 3m. POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.b CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :
:

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	39.88	27.62	34.97	3.92	36.45	74.00	-37.55	Peak
2	2400.00	49.43	27.62	34.97	3.94	46.02	74.00	-27.98	Peak
3	2412.00	89.15	27.61	34.97	3.95	85.74	74.00	11.74	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Website: <http://www.cessz.com> Email: Service@cessz.com



Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.b CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

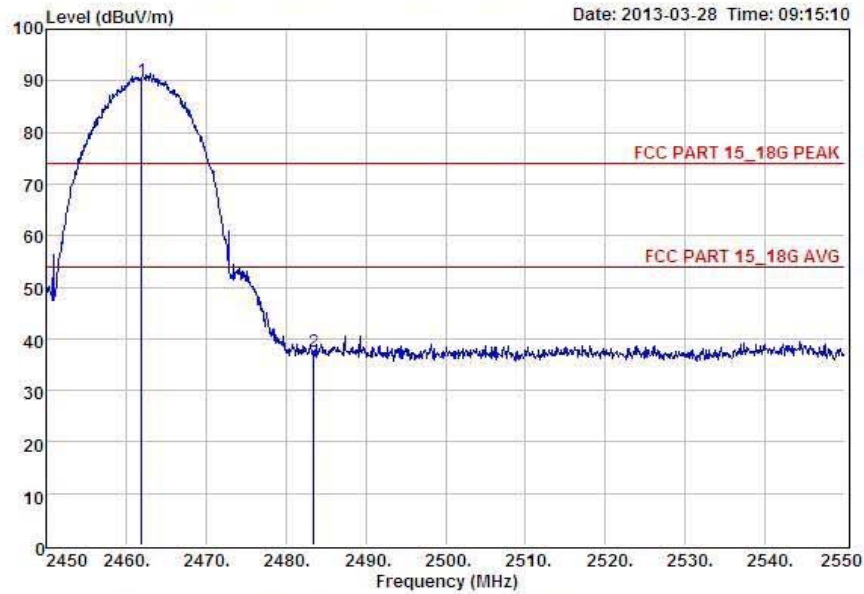
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	40.82	27.62	34.97	3.92	37.39	74.00	-36.61	Peak
2	2400.00	45.97	27.62	34.97	3.94	42.56	54.00	-11.44	Average
3	2400.00	57.16	27.62	34.97	3.94	53.75	74.00	-20.25	Peak
4	2412.00	95.23	27.61	34.97	3.95	91.82	74.00	17.82	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

CH High :



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Tel: 4006786199 FAX: +86-755-26736857
Website: <http://www.cessz.com> Email: Service@cessz.com



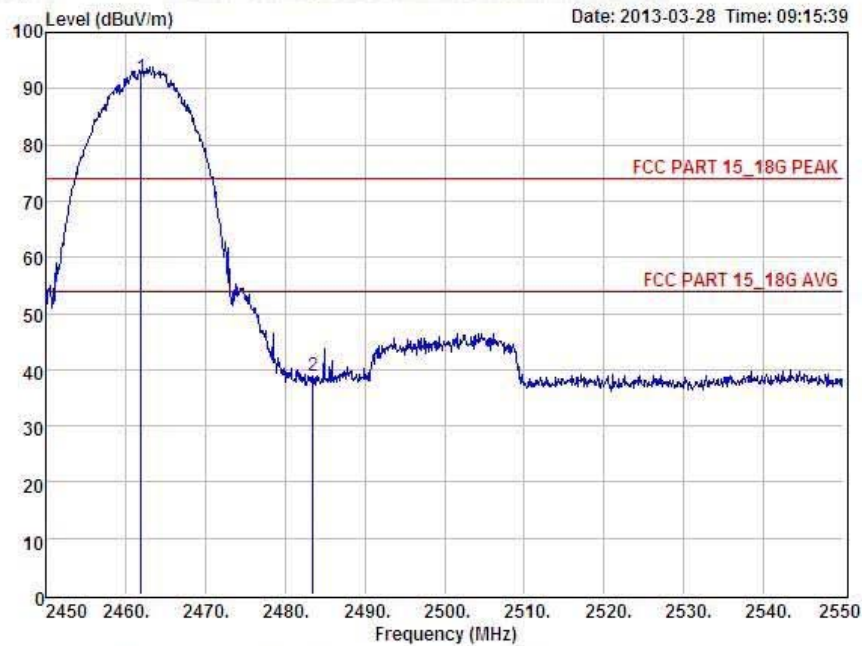
Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.b CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	93.47	27.59	34.97	3.98	90.07	74.00	16.07	Peak
2	2483.50	40.83	27.59	34.97	4.00	37.45	74.00	-36.55	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Tel: 4006786199 FAX: +86-755-26736857
Website: <http://www.cessz.com> Email: Service@cessz.com



Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE802.b CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	95.23	27.59	34.97	3.98	91.83	74.00	17.83	Peak
2	2483.50	42.19	27.59	34.97	4.00	38.81	74.00	-35.19	Peak

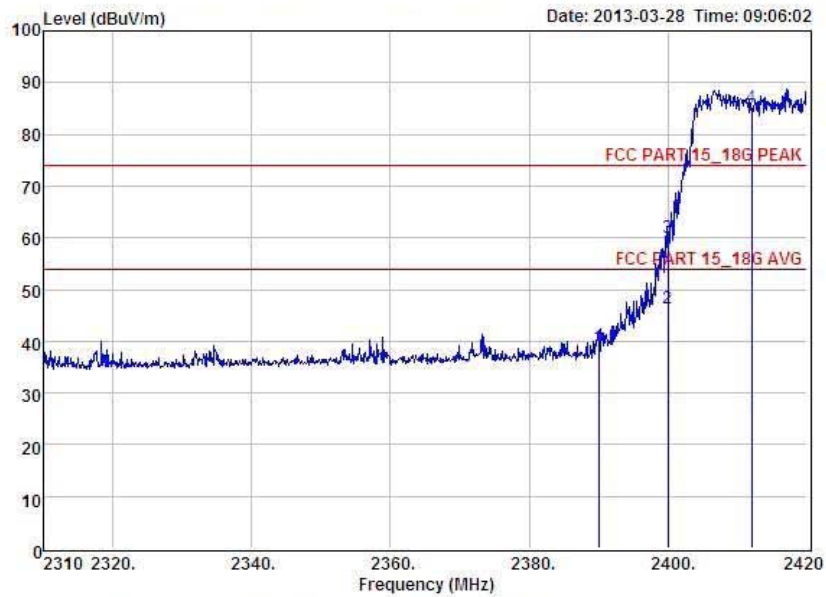
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Report No.: STI130309039

IEEE 802.11g:
CH LOW :



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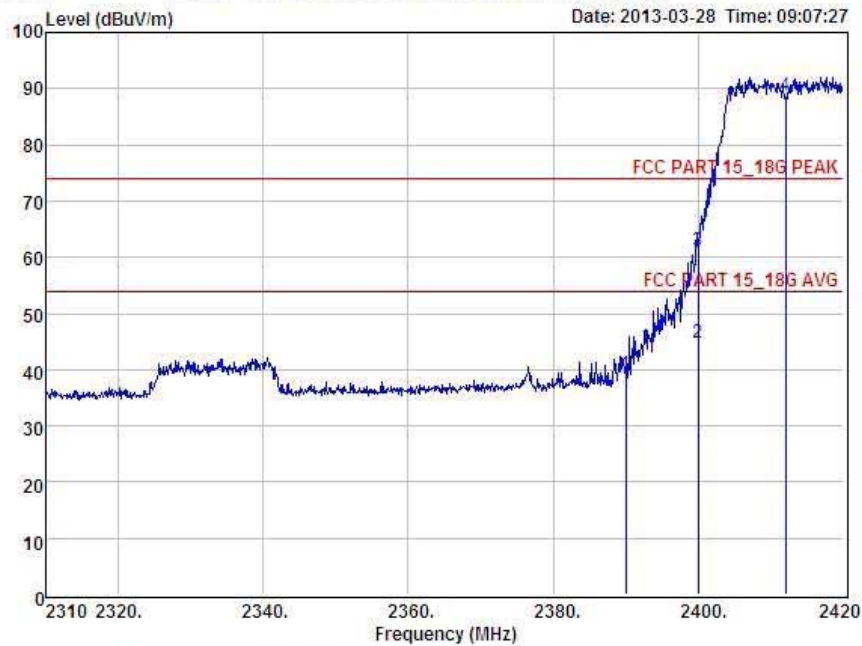
Condition : FCC PART 15_18G PEAK 3m. POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.g CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :
Item Freq Read Antenna Preamp Cable Level Limit Margin Remark
MHz dBuV dB Factor dB dB dBuV dBuV dBuV

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	42.31	27.62	34.97	3.92	38.88	74.00	-35.12	Peak
2	2400.00	49.75	27.62	34.97	3.94	46.34	54.00	-7.66	Average
3	2400.00	63.46	27.62	34.97	3.94	60.05	74.00	-13.95	Peak
4	2412.00	88.54	27.61	34.97	3.95	85.13	74.00	11.13	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE802.g CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

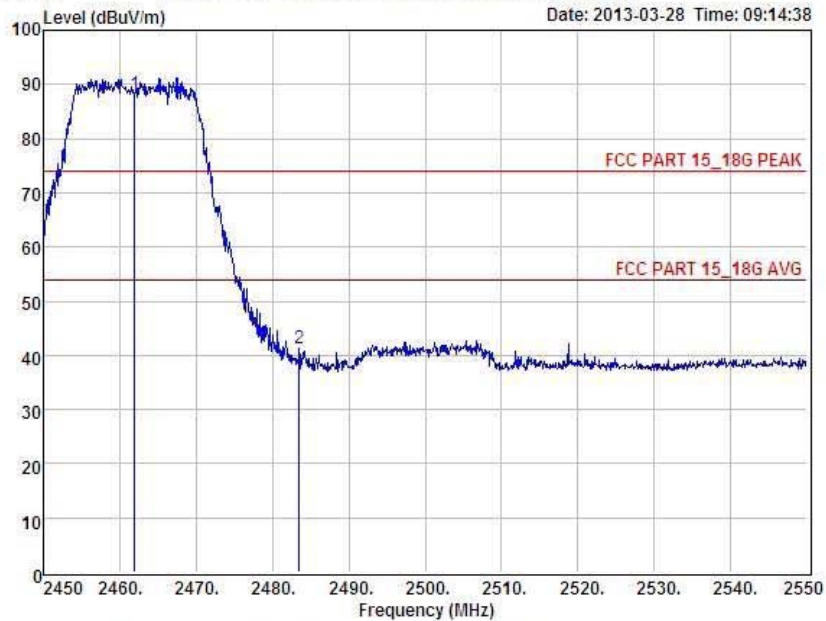
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	42.65	27.62	34.97	3.92	39.22	74.00	-34.78	Peak
2	2400.00	48.25	27.62	34.97	3.94	44.84	54.00	-9.16	Average
3	2400.00	64.54	27.62	34.97	3.94	61.13	74.00	-12.87	Peak
4	2412.00	92.18	27.61	34.97	3.95	88.77	74.00	14.77	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

CH High :



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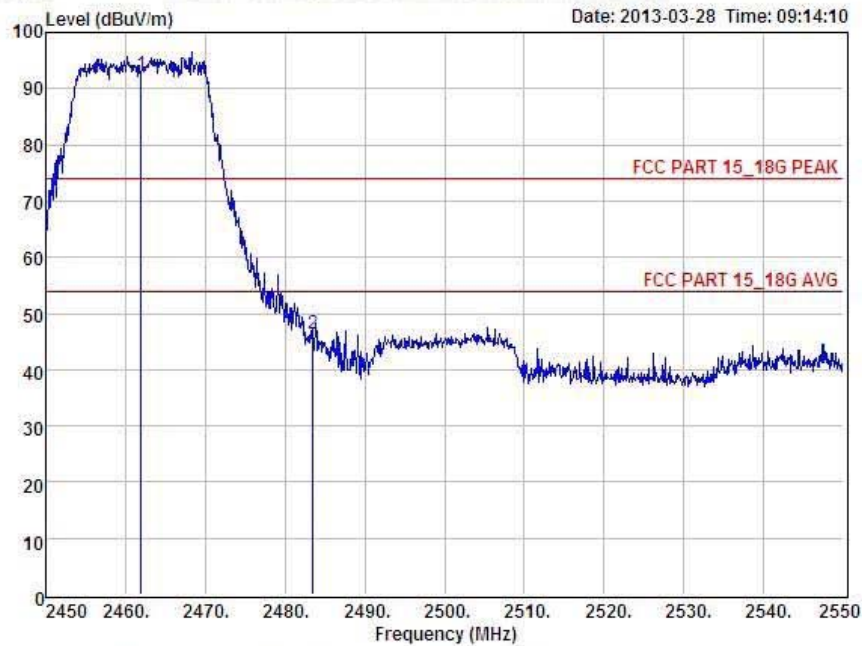
Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.g CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	91.65	27.59	34.97	3.98	88.25	74.00	14.25	Peak
2	2483.50	44.77	27.59	34.97	4.00	41.39	74.00	-32.61	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.g CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	95.86	27.59	34.97	3.98	92.46	74.00	18.46	Peak
2	2483.50	49.69	27.59	34.97	4.00	46.31	74.00	-27.69	Peak

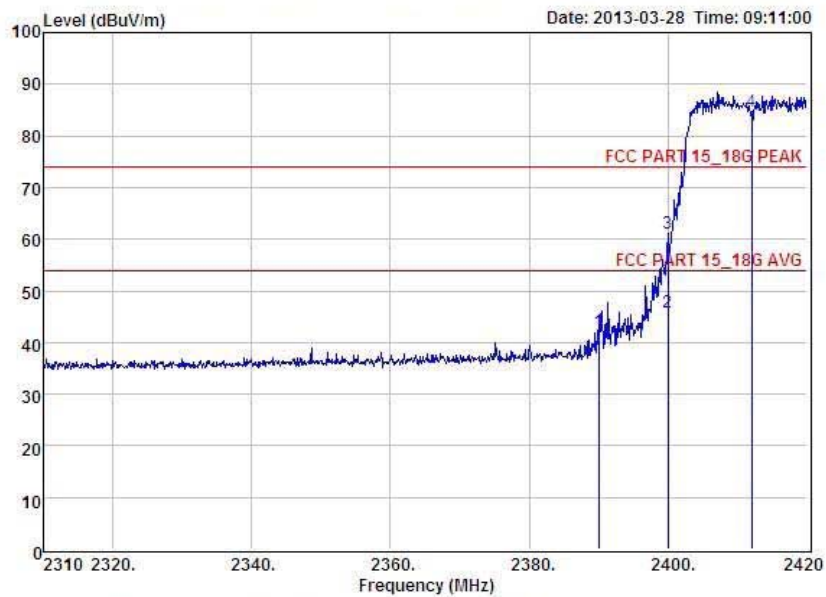
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Report No.: STI130309039

IEEE 802.11n/HT20:
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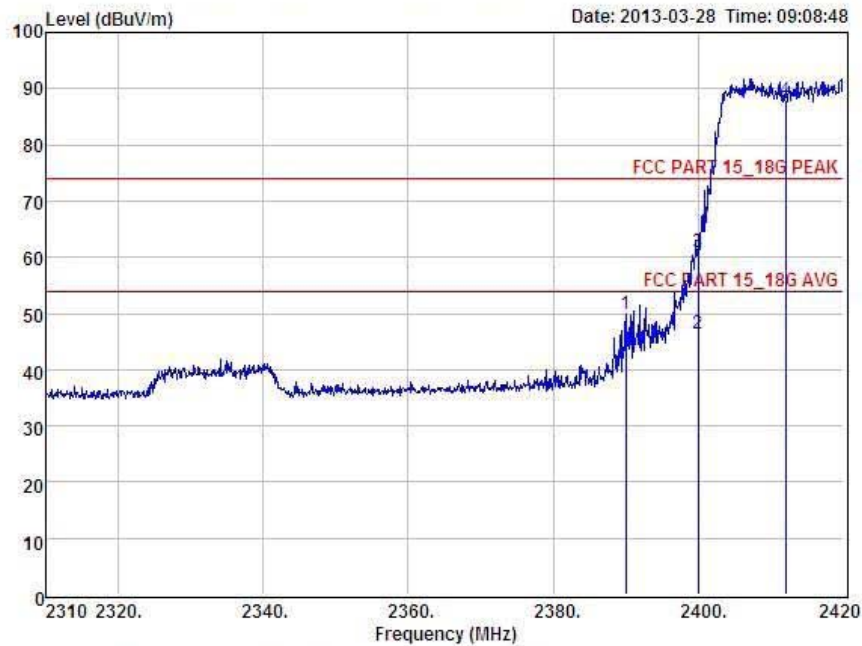
Condition : FCC PART 15_18G PEAK 3m. POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT20 CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :
:

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	45.63	27.62	34.97	3.92	42.20	74.00	-31.80	Peak
2	2400.00	49.26	27.62	34.97	3.94	45.85	54.00	-8.15	Average
3	2400.00	64.62	27.62	34.97	3.94	61.21	74.00	-12.79	Peak
4	2412.00	88.00	27.61	34.97	3.95	84.59	74.00	10.59	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT20 CH Low: 2412
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

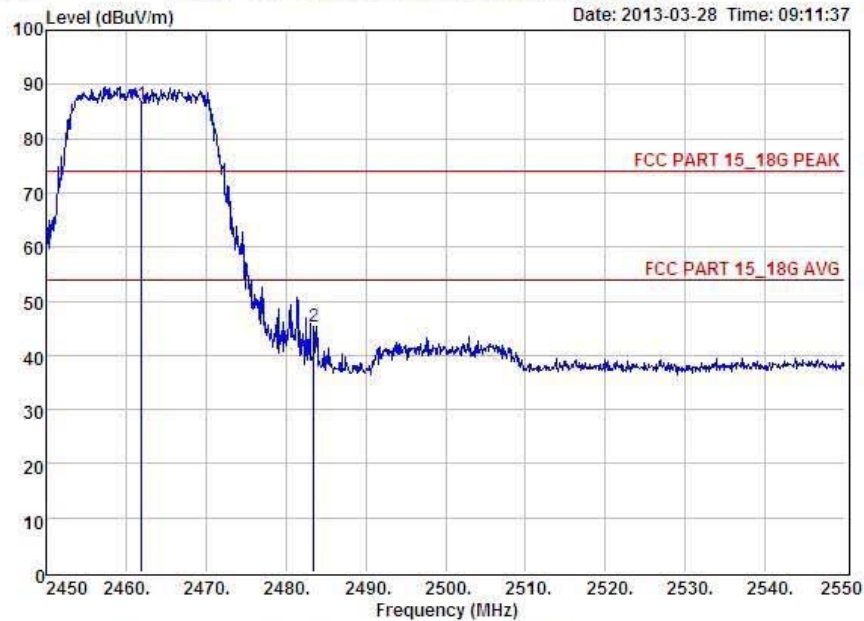
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	53.23	27.62	34.97	3.92	49.80	74.00	-24.20	Peak
2	2400.00	49.76	27.62	34.97	3.94	46.35	54.00	-7.65	Average
3	2400.00	64.29	27.62	34.97	3.94	60.88	74.00	-13.12	Peak
4	2412.00	91.36	27.61	34.97	3.95	87.95	74.00	13.95	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

CH High :



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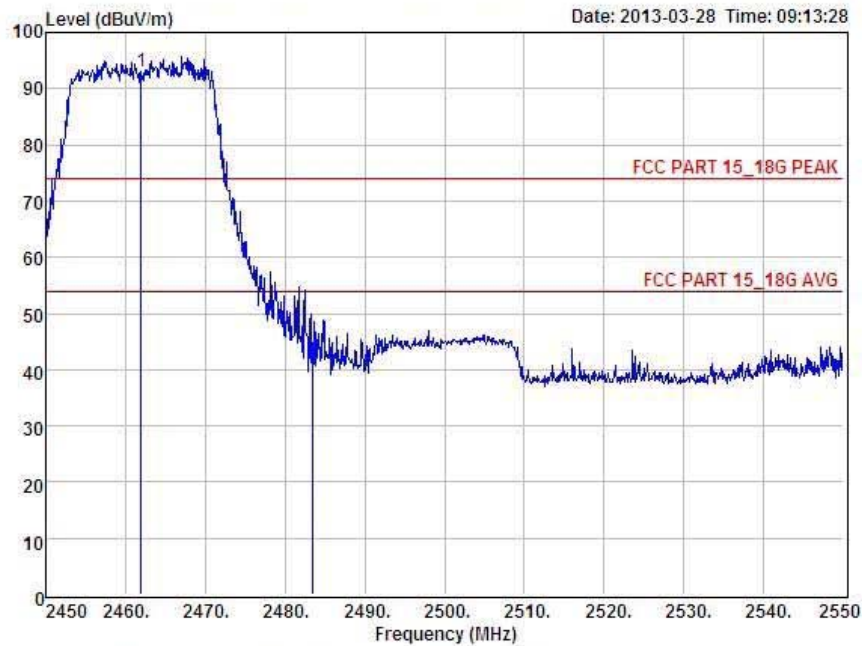
Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT20 CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	89.65	27.59	34.97	3.98	86.25	74.00	12.25	Peak
2	2483.50	48.81	27.59	34.97	4.00	45.43	74.00	-28.57	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT20 CH High: 2462
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2462.00	96.31	27.59	34.97	3.98	92.91	74.00	18.91	Peak
2	2483.50	44.51	27.59	34.97	4.00	41.13	74.00	-32.87	Peak

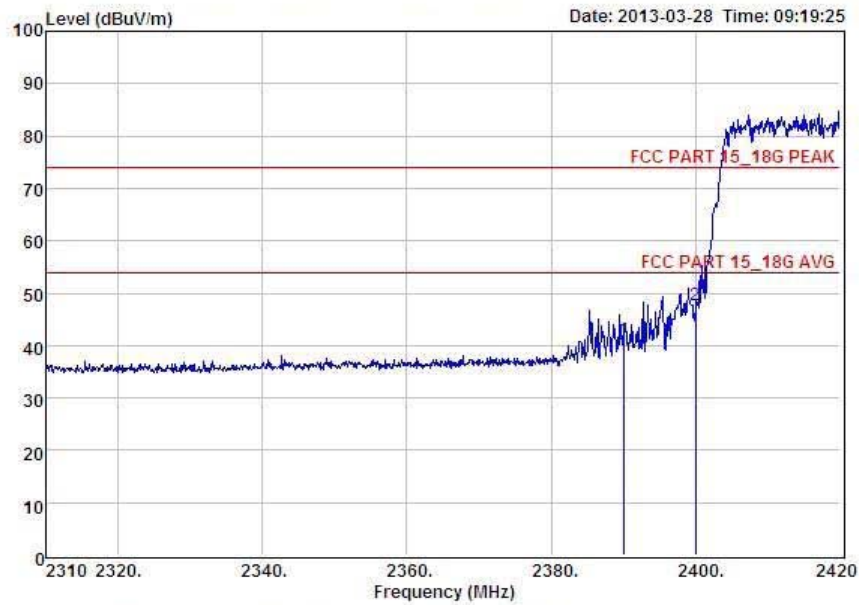
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Report No.: STI130309039

IEEE 802.11n/HT40:
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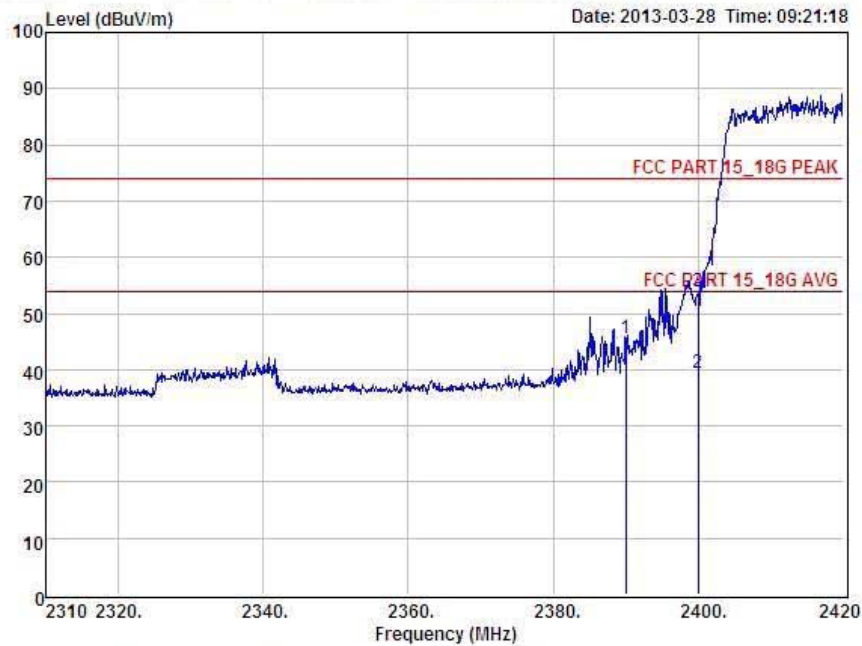
Condition : FCC PART 15.18G PEAK 3m POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT40 CH Low: 2422
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	44.34	27.62	34.97	3.92	40.91	74.00	-33.09	Peak
2	2400.00	51.07	27.62	34.97	3.94	47.68	74.00	-26.34	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
 EUT : Tablet Personal Computer
 Model No : Sapphire 7
 Test Mode : IEEE.802.n/HT40 CH Low: 2422
 Power : DC 5V From AC 120V/60Hz adapter
 Test Engineer : Anna
 Remark :
 Temp :
 Hum :

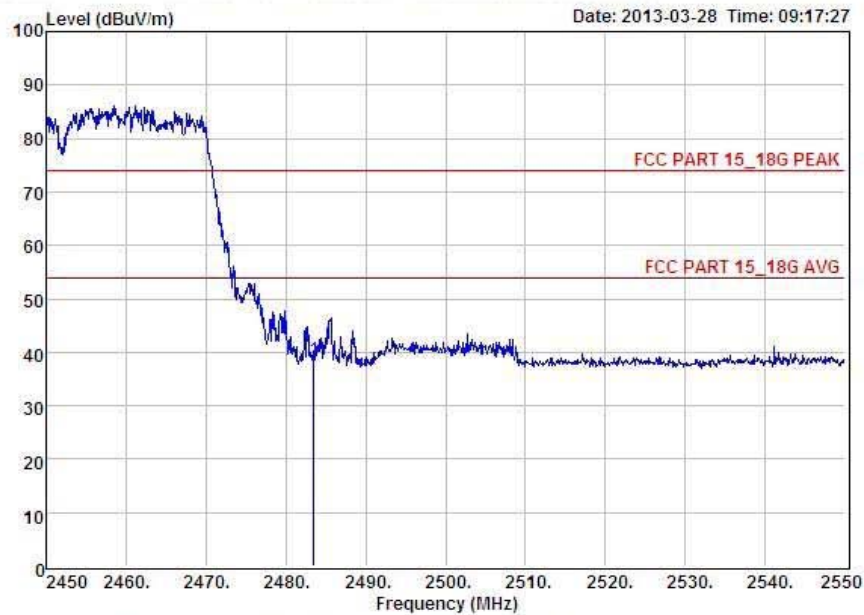
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2390.00	49.06	27.62	34.97	3.92	45.63	74.00	-28.37	Peak
2	2400.00	42.80	27.62	34.97	3.94	39.39	54.00	-14.61	Average
3	2400.00	57.39	27.62	34.97	3.94	53.98	74.00	-20.02	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

CH High :



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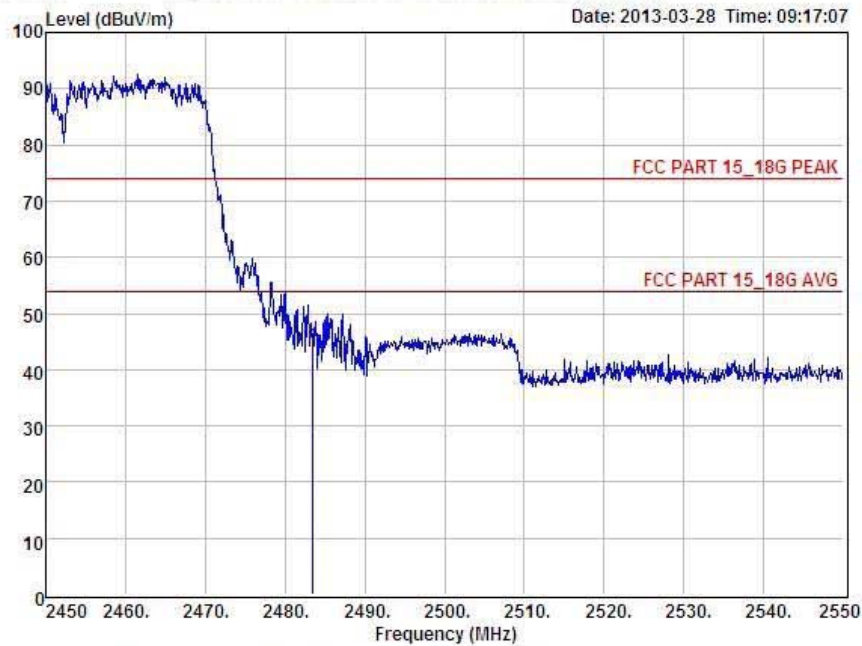
Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet Personal Computer
Model No : Sapphire 7
Test Mode : IEEE.802.n/HT40 CH High: 2452
Power : DC 5V From AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2483.50	41.96	27.59	34.97	4.00	38.58	74.00	-35.42	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
 EUT : Tablet Personal Computer
 Model No : Sapphire 7
 Test Mode : IEEE.802.n/HT40 CH High: 2452
 Power : DC 5V From AC 120V/60Hz adapter
 Test Engineer : Anna
 Remark :
 Temp :
 Hum :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	2483.50	47.53	27.59	34.97	4.00	44.15	74.00	-29.85	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

11 Antenna Requirement

11.1 Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 2 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

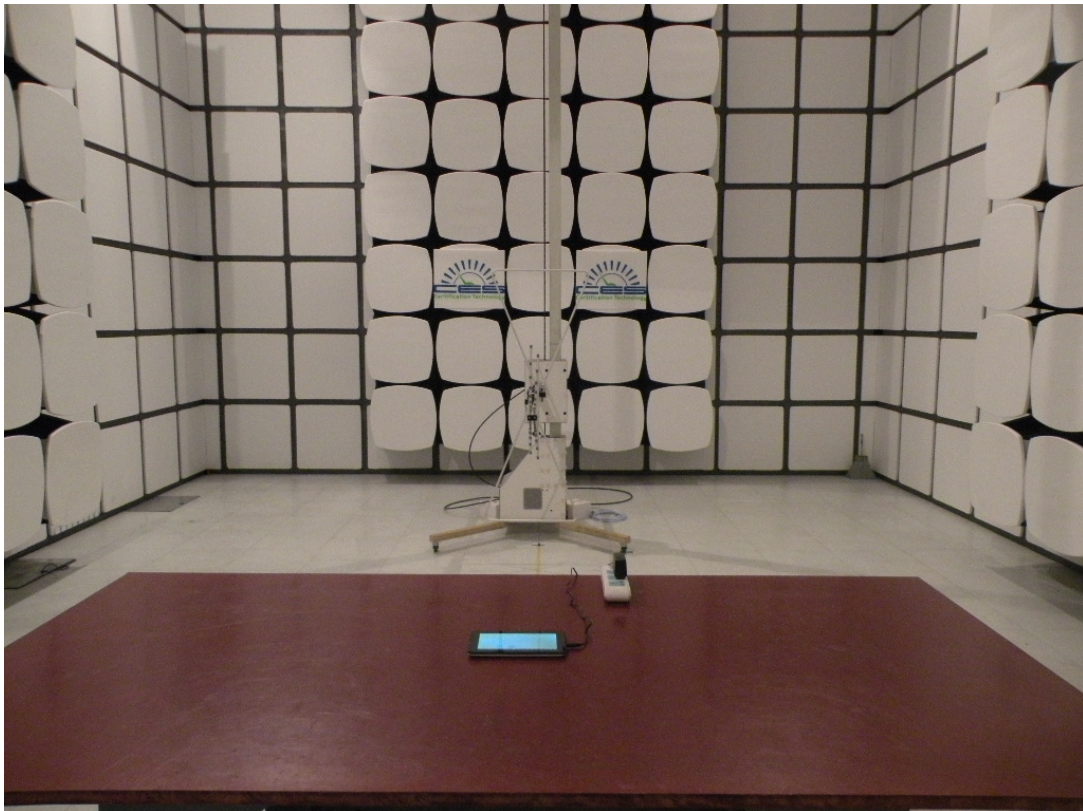
11.3 Result

The EUT antenna is integral Antenna. It comply with the standard requirement.

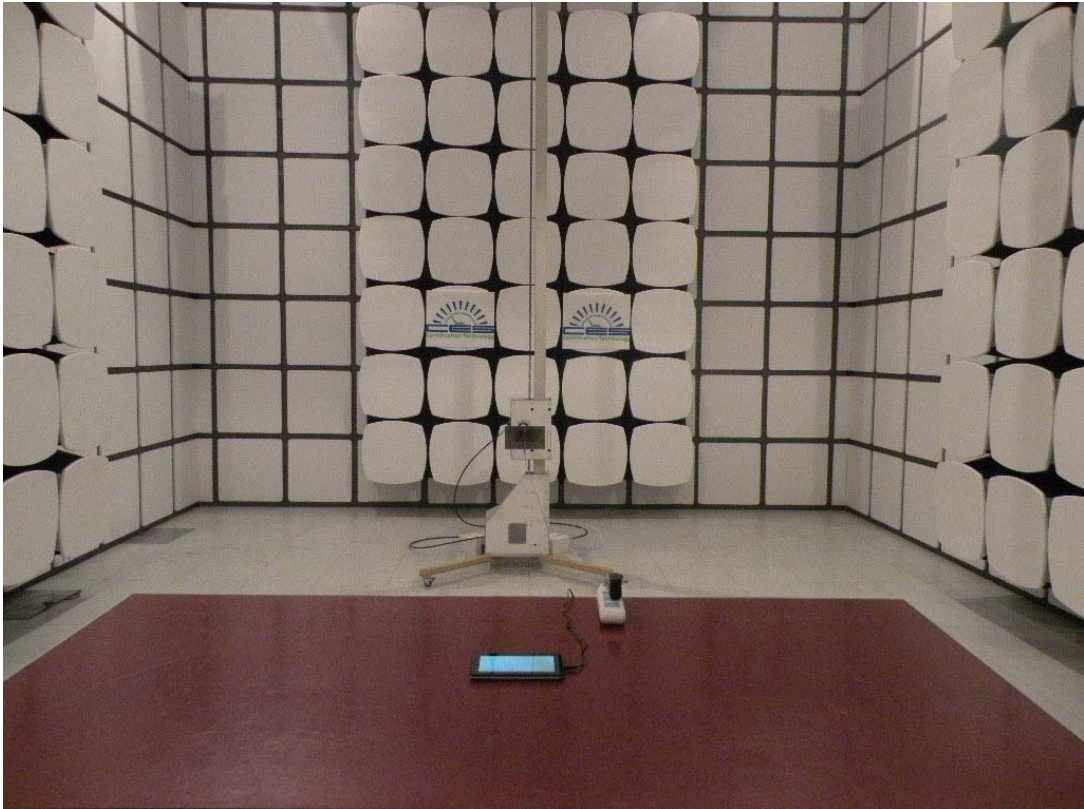
12 Photographs of Test Setup

Photographs-Radiated Emission Test Setup in Chamber

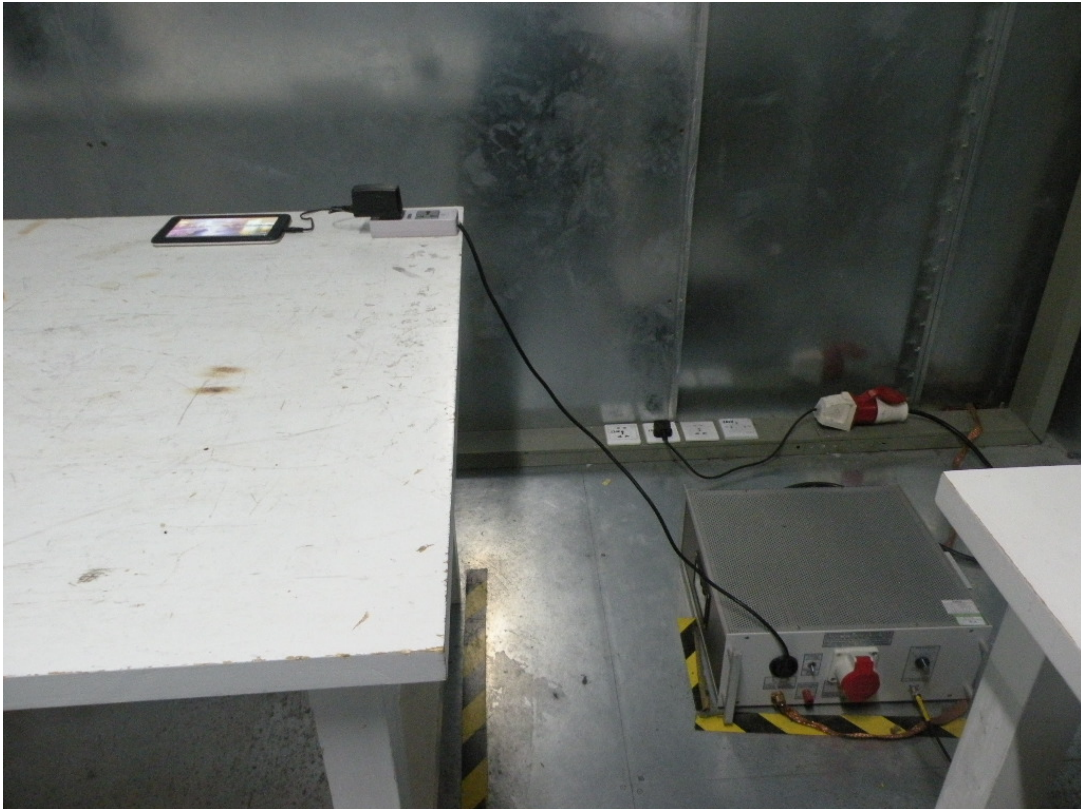
Below 1G



Above 1G

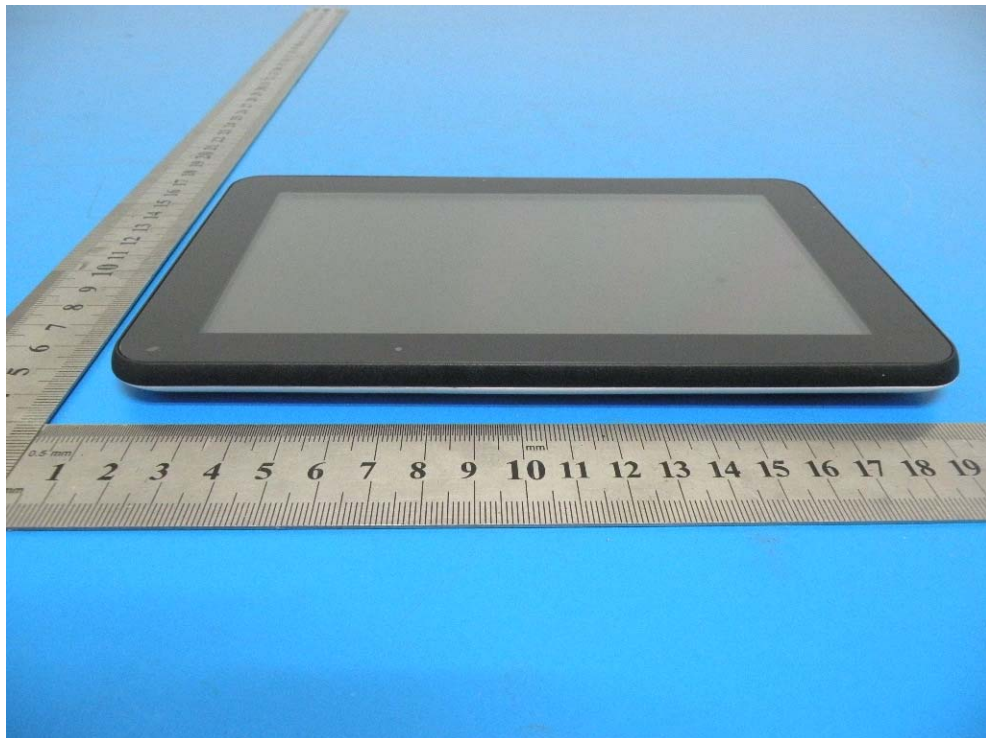


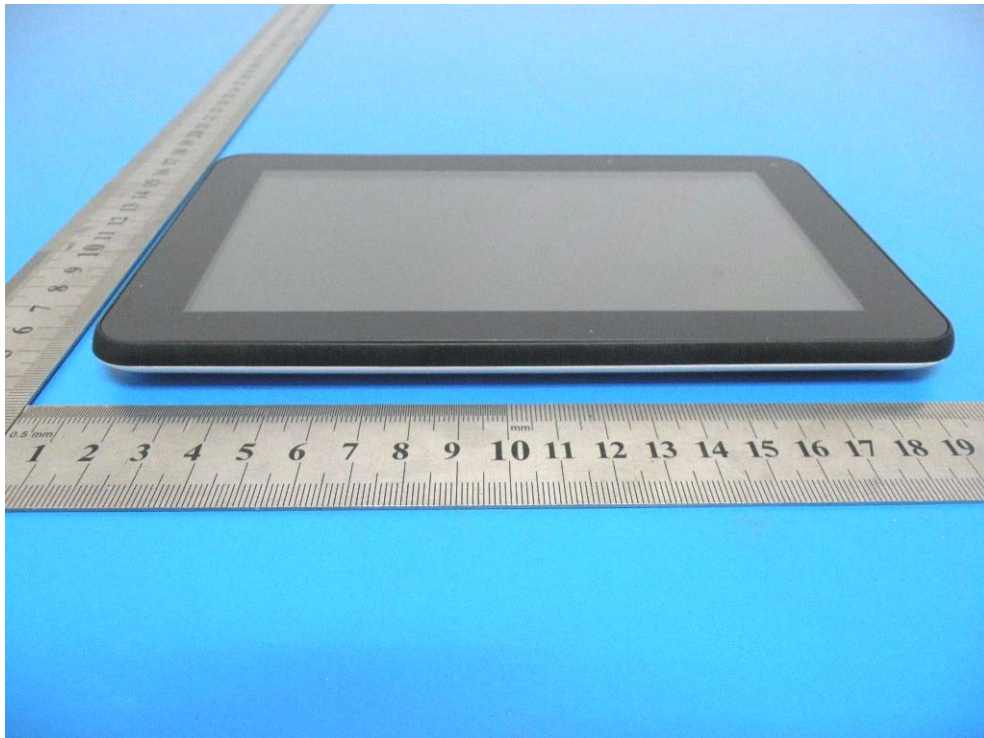
Photographs-Conducted Emission Test Setup

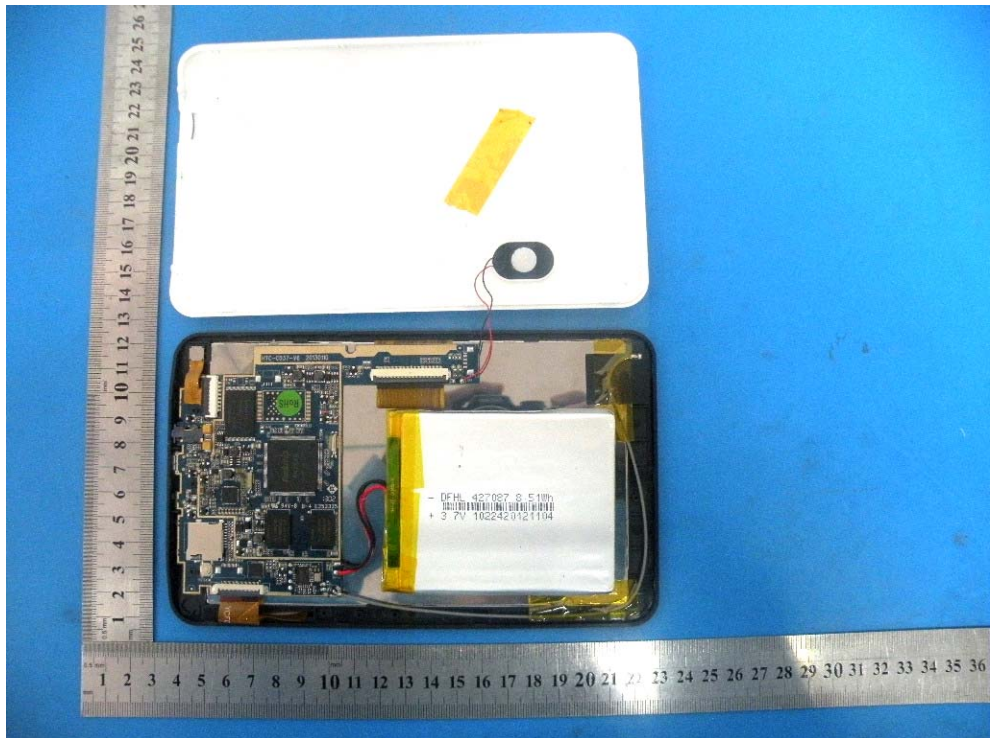


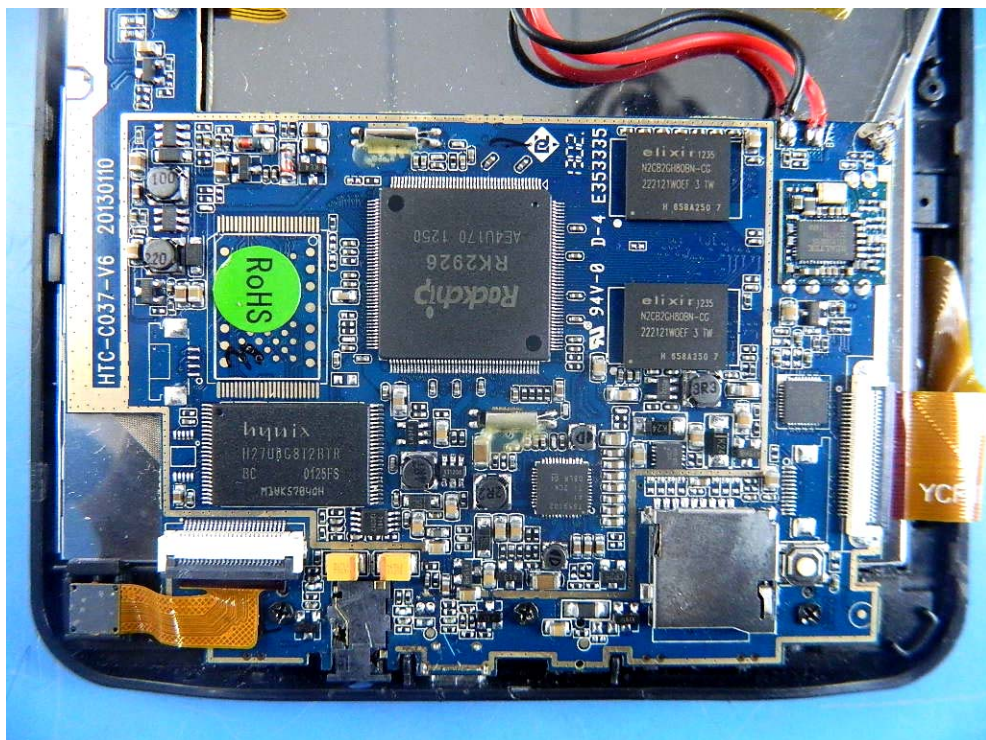
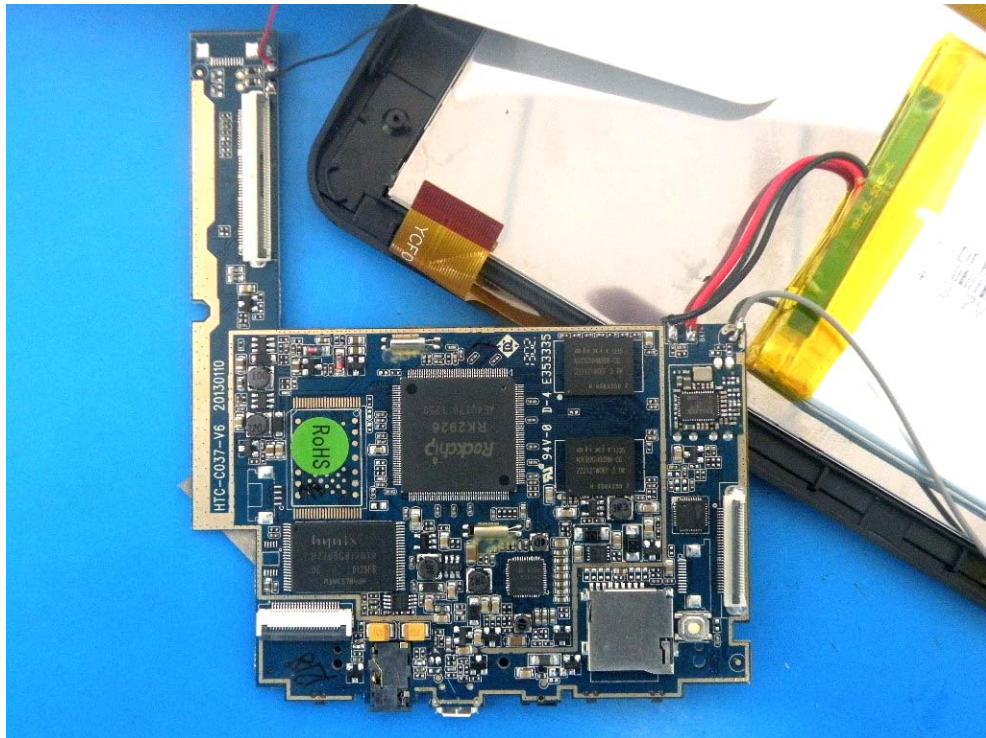
13 Photographs of EUT

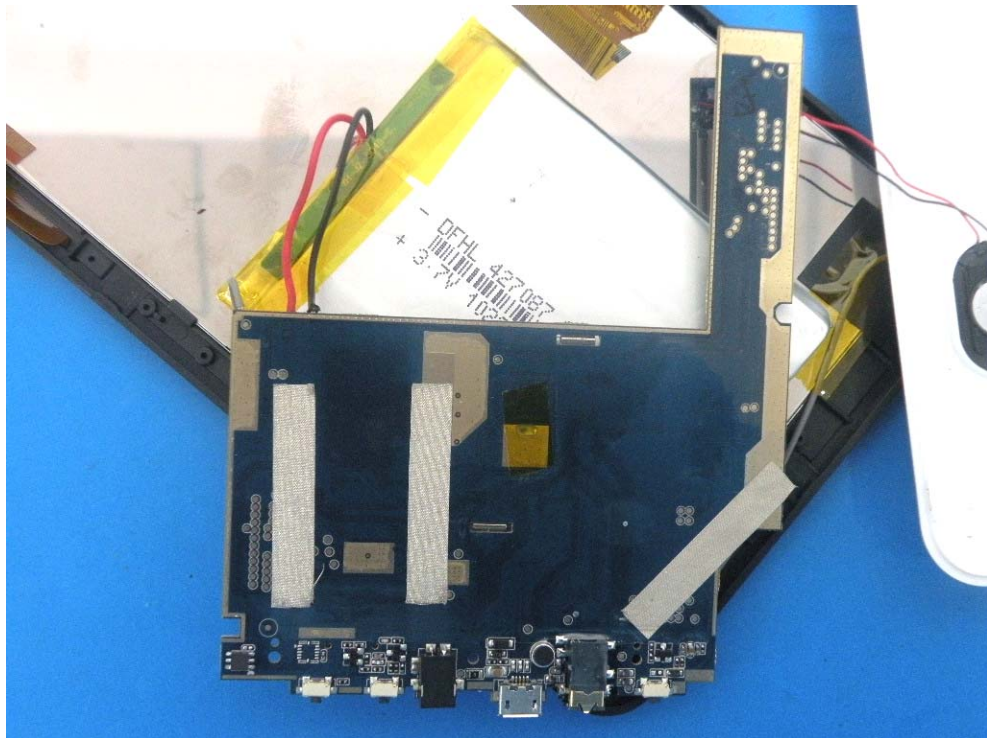
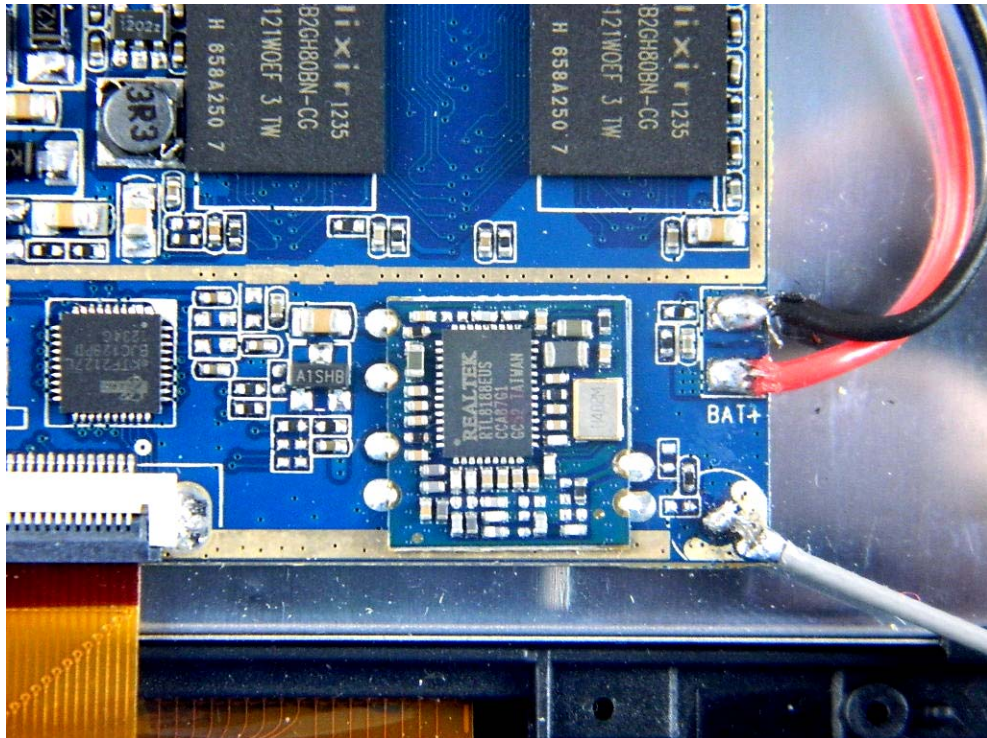












-----END OF THE REPORT-----