

FCC Radio Test Report

FCC ID: 2AK4T-SS5TAB

Original Grant

Report No. : TB-FCC154156
Applicant : Shenzhen Tideway Electronics Co., Ltd
Equipment Under Test (EUT)
EUT Name : Tablet PC
Model No. : SS5TAB
Series Model No. : MOMO5 Quad, MOMO5
Brand Name : Sunstone , Ployer
Receipt Date : 2017-06-02
Test Date : 2017-06-03 to 2017-06-21
Issue Date : 2017-06-22
Standards : FCC Part 15, Subpart C (15.247:2016)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

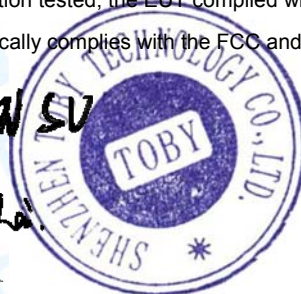
Test/Witness Engineer :

WANG SU

**Approved &
Authorized**

:

Wang Su



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information about EUT

1.1 Client Information

Applicant : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China
Manufacturer : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	: Tablet PC	
Models No.	: SS5TAB, MOMO5 Quad, MOMO5	
Model Difference	: All models are identical in the same PCB layout interior structure and electrical circuits, SS5TAB without battery inside, SS5TAB Quad and SS5TAB with battery inside.	
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
	Number of Channel:	802.11b/g/n(HT20):11 channels <i>see note(3)</i> 802.11n(HT40):7 channels <i>see note(3)</i>
	RF Output Power:	802.11b: 9.80dBm 802.11g: 9.78dBm 802.11n (HT20): 8.75dBm 802.11n (HT40): 7.78dBm
	Antenna Gain:	2dBi FPC Antenna
	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
	Power Supply	: DC Voltage Supply from USB Port. DC Supply by the Battery.
Power Rating	: DC 5.0 V from the USB Cable. DC 3.7V by Li-ion Battery.	
Connecting I/O Port(S)	: Please refer to the User's Manual	

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.

(2) For a more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.

(3) Channel List:

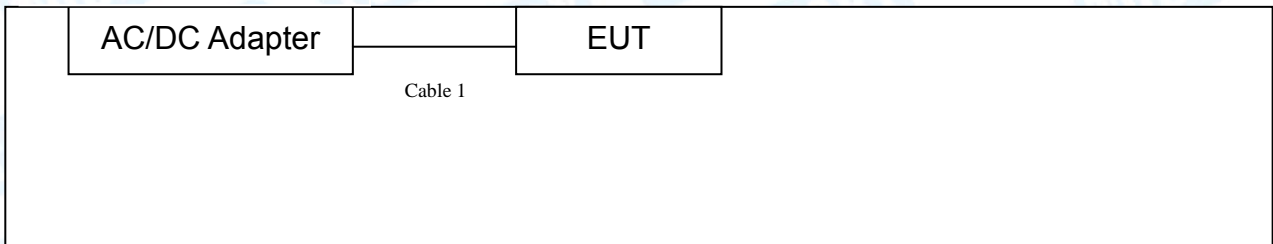
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

Note: CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)

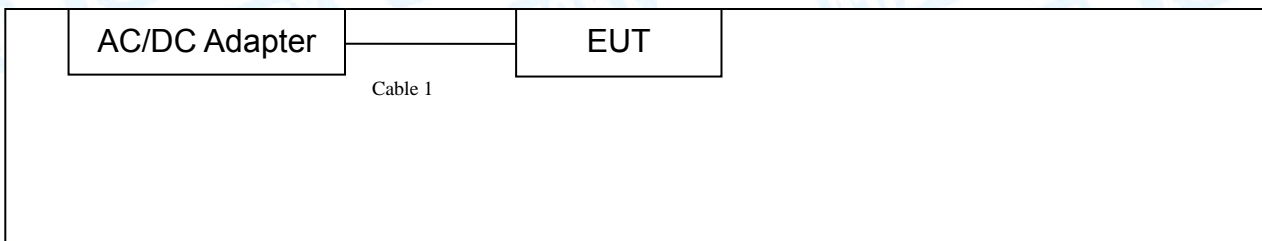
(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging Mode



TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
AC/DC Adapter	A16-502000	----	AOHAI	√
AC/DC Adapter Input: AC100-240V 50/60Hz 0.5A Output: 5V/2A				
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	NO	1M	

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follows was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Charging Mode with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power

mode was programmed by the customer.

- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	RtkWiFiTest-v1.9.0_20160224.apk		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz	± 3.42 dB
	150kHz to 30MHz	± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: “/” for no requirement for this test item.
N/A is an abbreviation for Not Applicable.

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.24, 2017	Mar. 23, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.25, 2017	Mar. 24, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

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

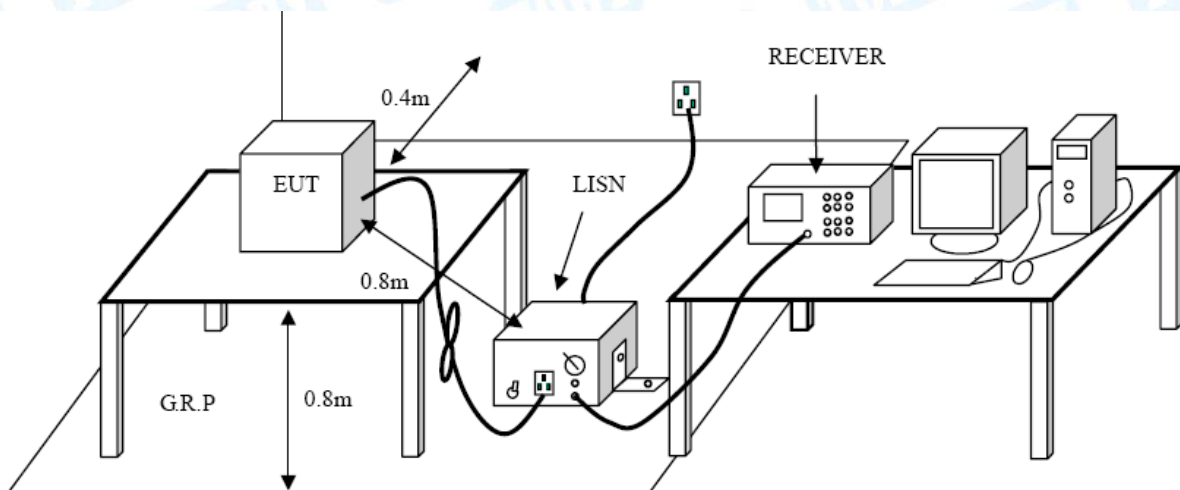
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

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

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

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back

and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

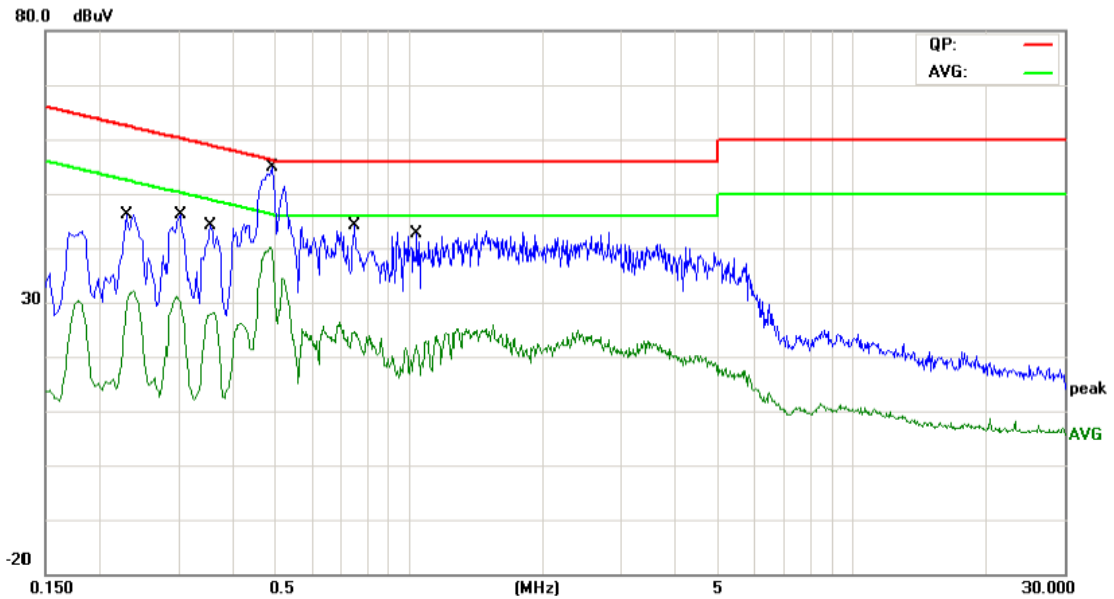
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Test data please refer the following pages.

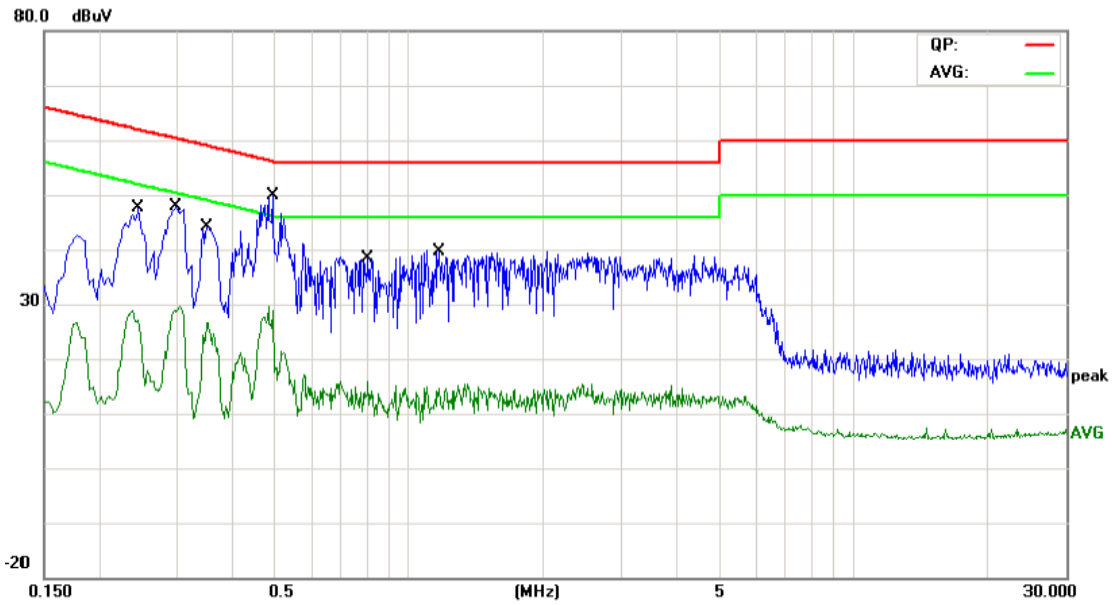
EUT:	Tablet PC	Model Name:	SS5TAB
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Line		
Test Mode:	USB Charging Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2300	30.81	10.02	40.83	62.45	-21.62	QP
2		0.2300	19.09	10.02	29.11	52.45	-23.34	AVG
3		0.3020	30.58	10.02	40.60	60.19	-19.59	QP
4		0.3020	20.11	10.02	30.13	50.19	-20.06	AVG
5		0.3540	28.27	10.02	38.29	58.87	-20.58	QP
6		0.3540	17.16	10.02	27.18	48.87	-21.69	AVG
7	*	0.4900	41.51	10.02	51.53	56.17	-4.64	QP
8		0.4900	29.31	10.02	39.33	46.17	-6.84	AVG
9		0.7500	29.03	10.11	39.14	56.00	-16.86	QP
10		0.7500	14.60	10.11	24.71	46.00	-21.29	AVG
11		1.0380	25.23	10.06	35.29	56.00	-20.71	QP
12		1.0380	11.13	10.06	21.19	46.00	-24.81	AVG

Emission Level= Read Level+ Correct Factor

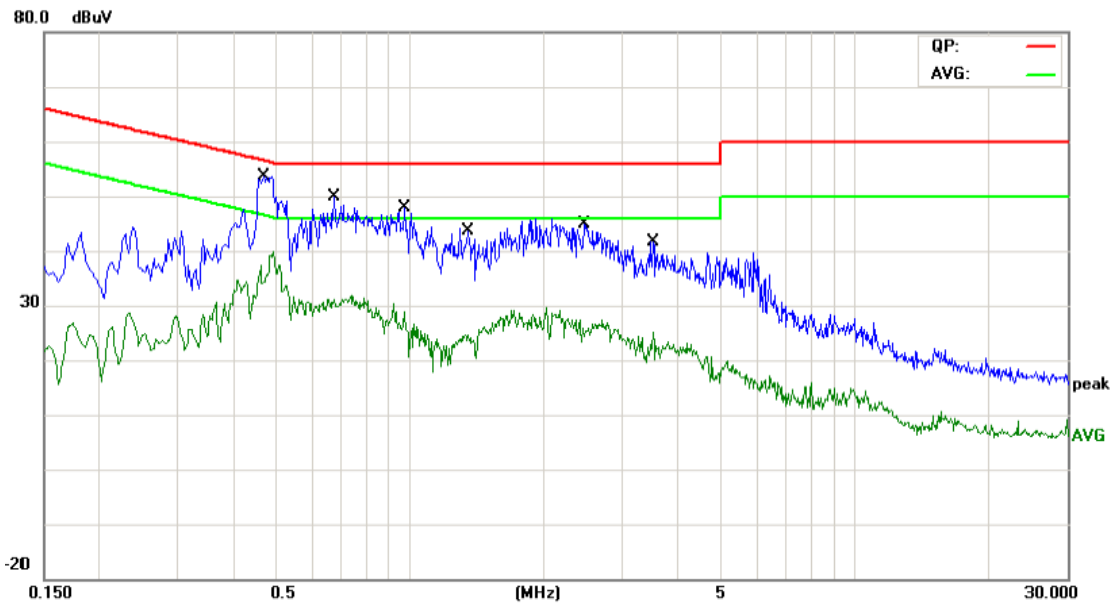
EUT:	Tablet PC	Model Name:	SS5TAB
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Neutral		
Test Mode:	USB Charging Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2460	32.87	10.10	42.97	61.89	-18.92	QP
2		0.2460	14.73	10.10	24.83	51.89	-27.06	AVG
3		0.2980	33.86	10.09	43.95	60.30	-16.35	QP
4		0.2980	18.18	10.09	28.27	50.30	-22.03	AVG
5		0.3500	29.54	10.07	39.61	58.96	-19.35	QP
6		0.3500	13.59	10.07	23.66	48.96	-25.30	AVG
7	*	0.4940	33.06	10.02	43.08	56.10	-13.02	QP
8		0.4940	13.00	10.02	23.02	46.10	-23.08	AVG
9		0.8059	21.25	10.07	31.32	56.00	-24.68	QP
10		0.8059	2.19	10.07	12.26	46.00	-33.74	AVG
11		1.1700	21.84	10.14	31.98	56.00	-24.02	QP
12		1.1700	2.18	10.14	12.32	46.00	-33.68	AVG

Emission Level= Read Level+ Correct Factor

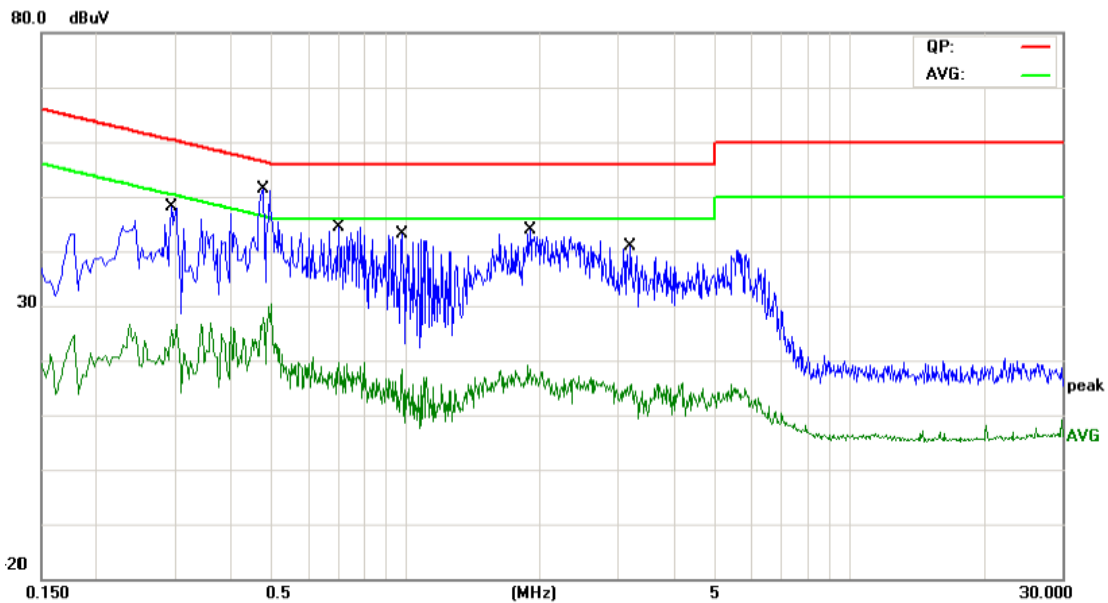
EUT:	Tablet PC	Model Name:	SS5TAB
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Line		
Test Mode:	USB Charging Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.4700	39.47	10.02	49.49	56.51	-7.02	QP
2		0.4700	24.39	10.02	34.41	46.51	-12.10	AVG
3		0.6740	32.20	10.11	42.31	56.00	-13.69	QP
4		0.6740	20.04	10.11	30.15	46.00	-15.85	AVG
5		0.9740	30.86	10.07	40.93	56.00	-15.07	QP
6		0.9740	16.63	10.07	26.70	46.00	-19.30	AVG
7		1.3500	25.73	10.06	35.79	56.00	-20.21	QP
8		1.3500	12.62	10.06	22.68	46.00	-23.32	AVG
9		2.4700	26.15	10.04	36.19	56.00	-19.81	QP
10		2.4700	13.23	10.04	23.27	46.00	-22.73	AVG
11		3.5180	20.25	10.01	30.26	56.00	-25.74	QP
12		3.5180	9.49	10.01	19.50	46.00	-26.50	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model Name:	SS5TAB
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Neutral		
Test Mode:	USB Charging Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2940	31.52	10.09	41.61	60.41	-18.80	QP
2		0.2940	12.06	10.09	22.15	50.41	-28.26	AVG
3	*	0.4780	32.75	10.03	42.78	56.37	-13.59	QP
4		0.4780	12.68	10.03	22.71	46.37	-23.66	AVG
5		0.7019	24.42	10.02	34.44	56.00	-21.56	QP
6		0.7019	5.77	10.02	15.79	46.00	-30.21	AVG
7		0.9820	22.16	10.15	32.31	56.00	-23.69	QP
8		0.9820	1.68	10.15	11.83	46.00	-34.17	AVG
9		1.9020	22.76	10.07	32.83	56.00	-23.17	QP
10		1.9020	3.58	10.07	13.65	46.00	-32.35	AVG
11		3.1980	19.20	10.06	29.26	56.00	-26.74	QP
12		3.1980	1.81	10.06	11.87	46.00	-34.13	AVG

Emission Level= Read Level+ Correct Factor

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

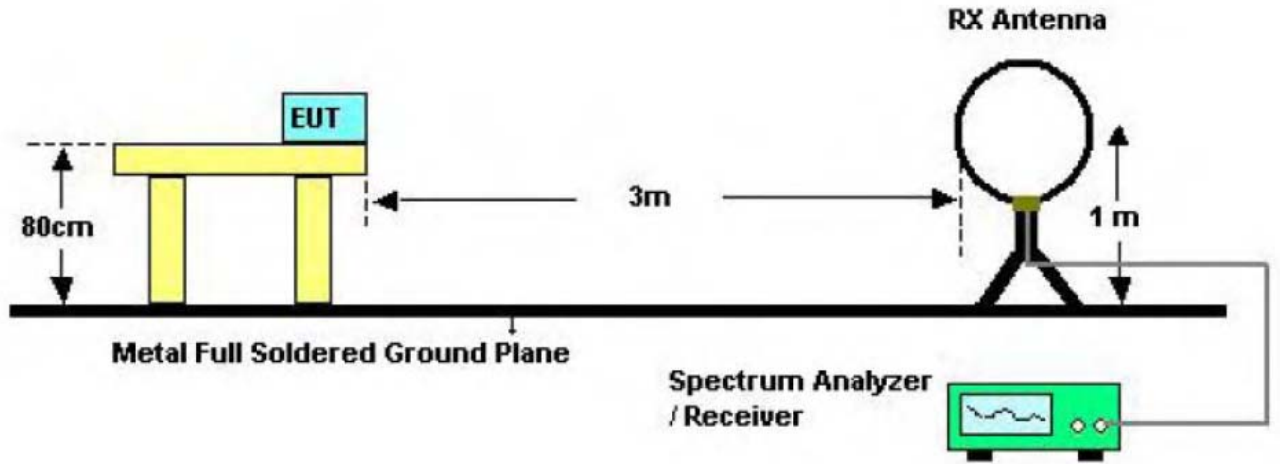
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

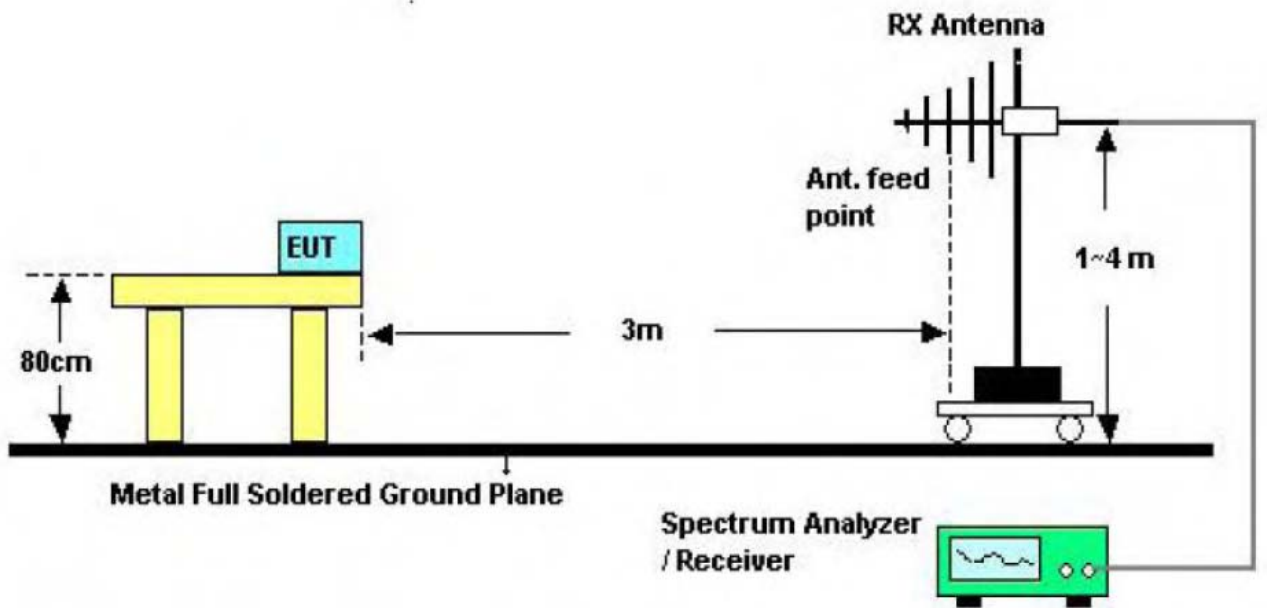
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

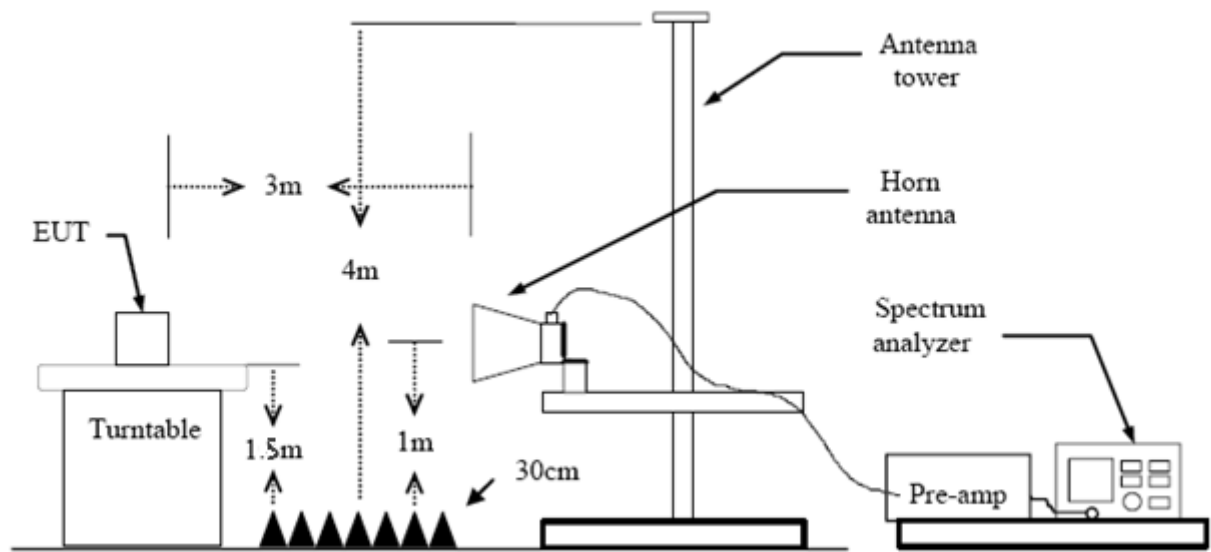
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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 Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

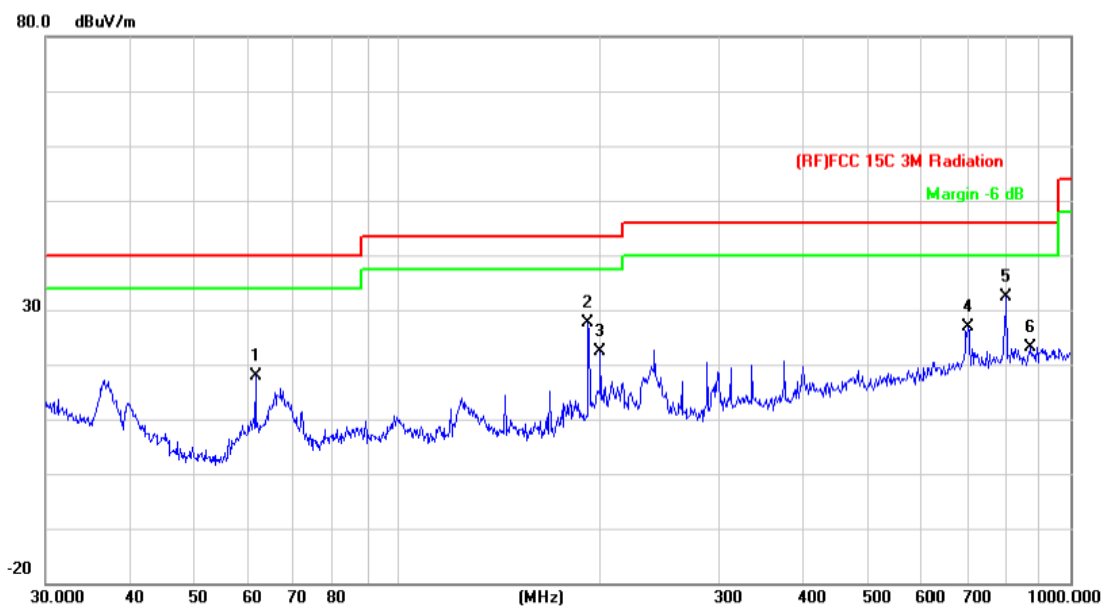
9KHz~30MHz

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.

30MHz~1GHz

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

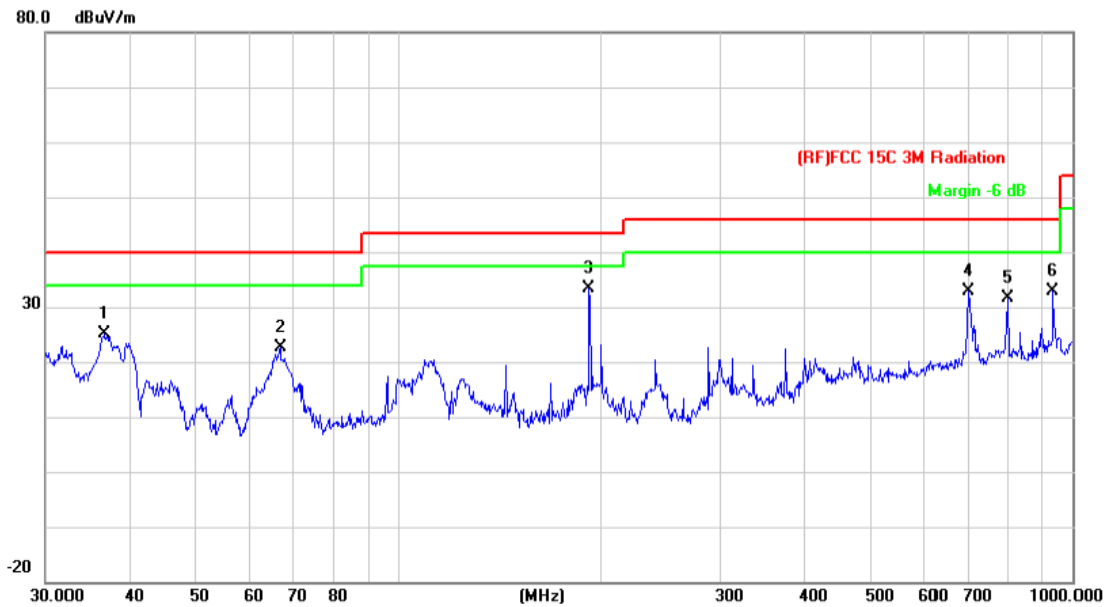


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		61.3463	42.22	-24.40	17.82	40.00	-22.18	peak
2		191.7450	48.50	-20.81	27.69	43.50	-15.81	peak
3		199.9856	42.85	-20.39	22.46	43.50	-21.04	peak
4		701.7610	33.85	-6.88	26.97	46.00	-19.03	peak
5	*	801.7863	38.89	-6.49	32.40	46.00	-13.60	peak
6		872.1832	29.31	-6.10	23.21	46.00	-22.79	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



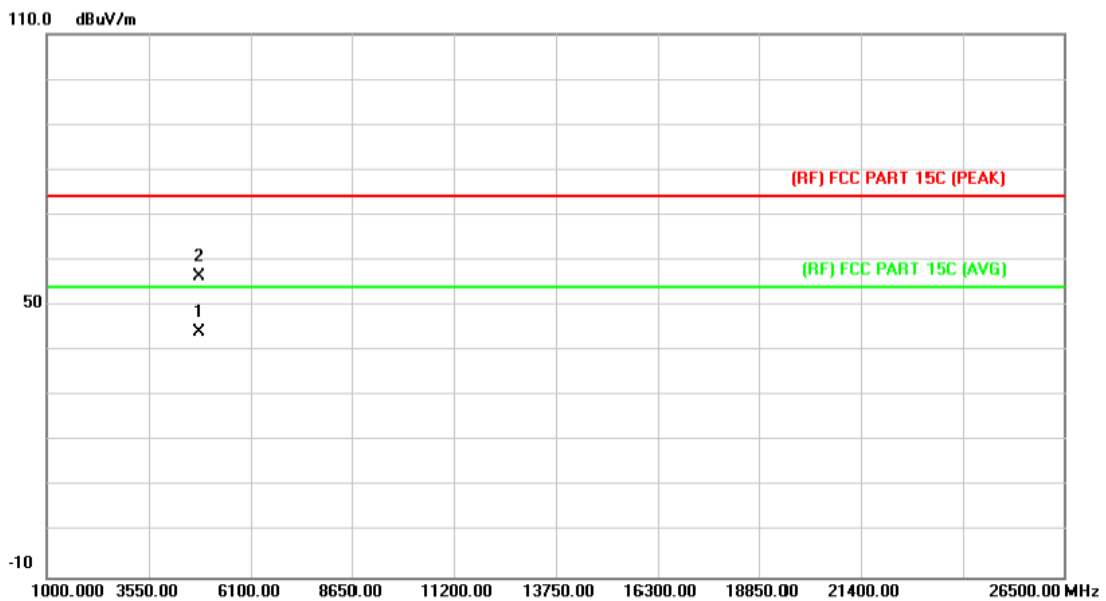
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.6375	43.08	-18.07	25.01	40.00	-14.99	peak
2		66.7325	46.52	-23.91	22.61	40.00	-17.39	peak
3	*	191.7450	54.12	-20.81	33.31	43.50	-10.19	peak
4		699.3046	39.70	-6.89	32.81	46.00	-13.19	peak
5		801.7863	38.03	-6.49	31.54	46.00	-14.46	peak
6		935.5463	37.70	-4.82	32.88	46.00	-13.12	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Above 1GHz

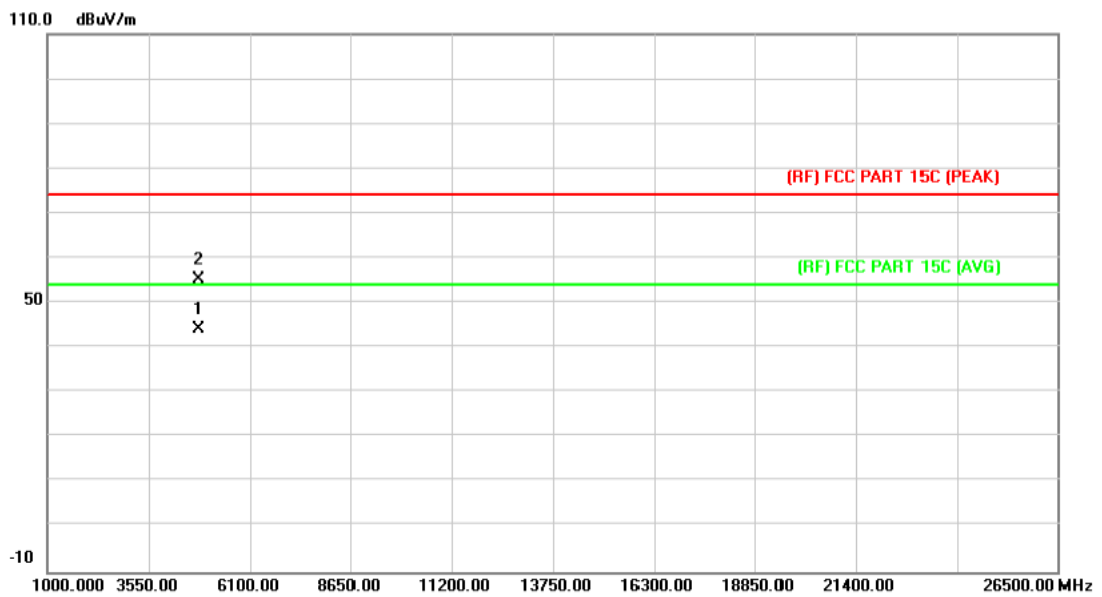
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4824.435	30.69	13.50	44.19	54.00	-9.81	AVG
2		4824.507	42.88	13.50	56.38	74.00	-17.62	peak

Emission Level= Read Level+ Correct Factor

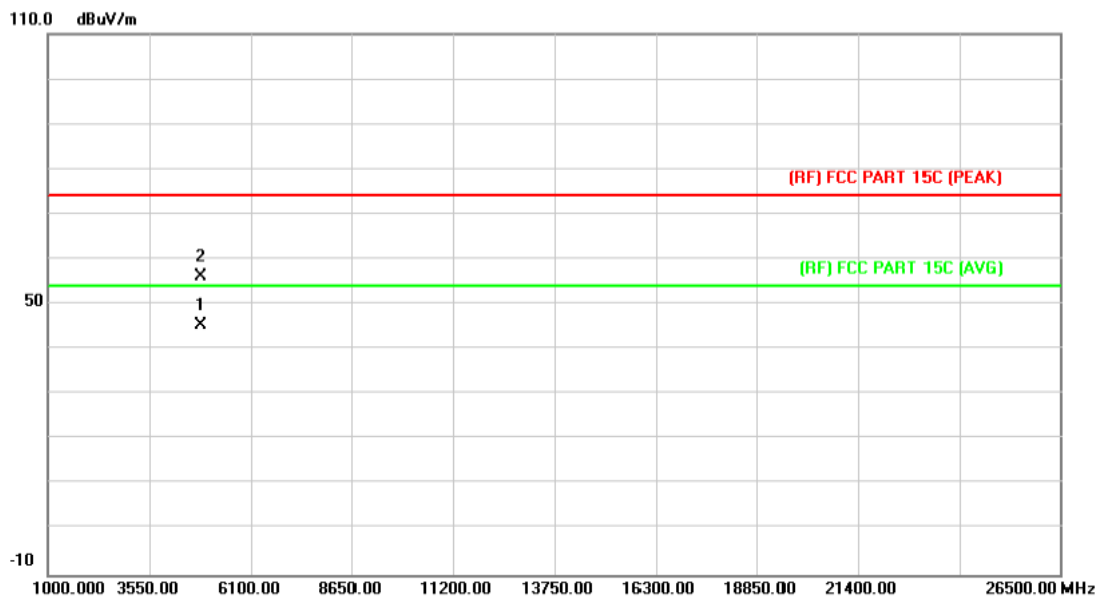
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4823.010	30.66	13.50	44.16	54.00	-9.84	AVG
2		4824.528	41.81	13.50	55.31	74.00	-18.69	peak

Emission Level= Read Level+ Correct Factor

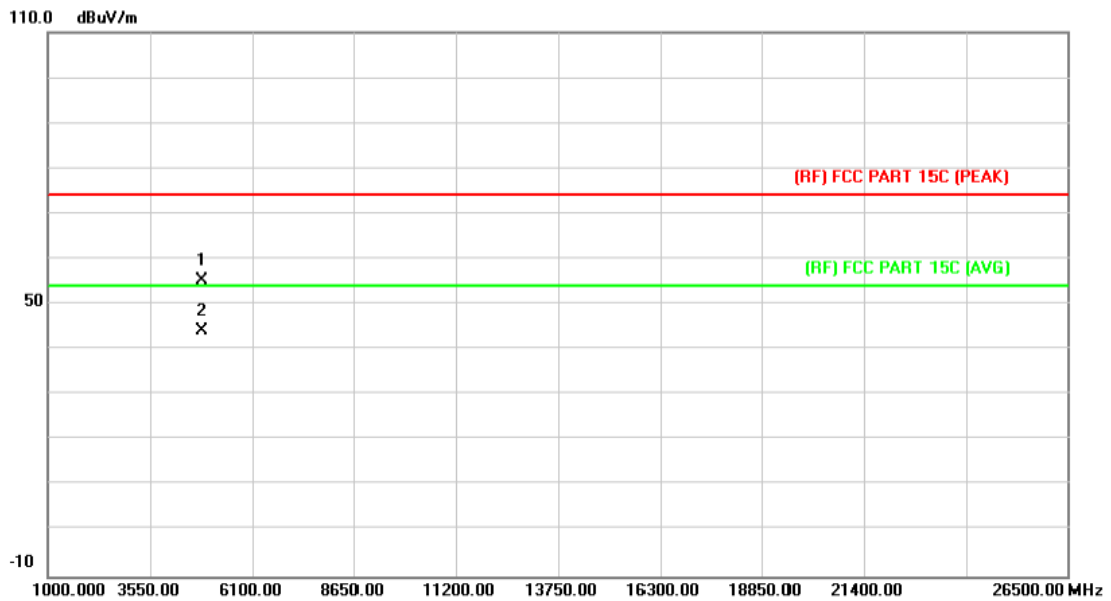
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4873.454	31.45	13.86	45.31	54.00	-8.69	AVG
2		4873.688	42.26	13.86	56.12	74.00	-17.88	peak

Emission Level= Read Level+ Correct Factor

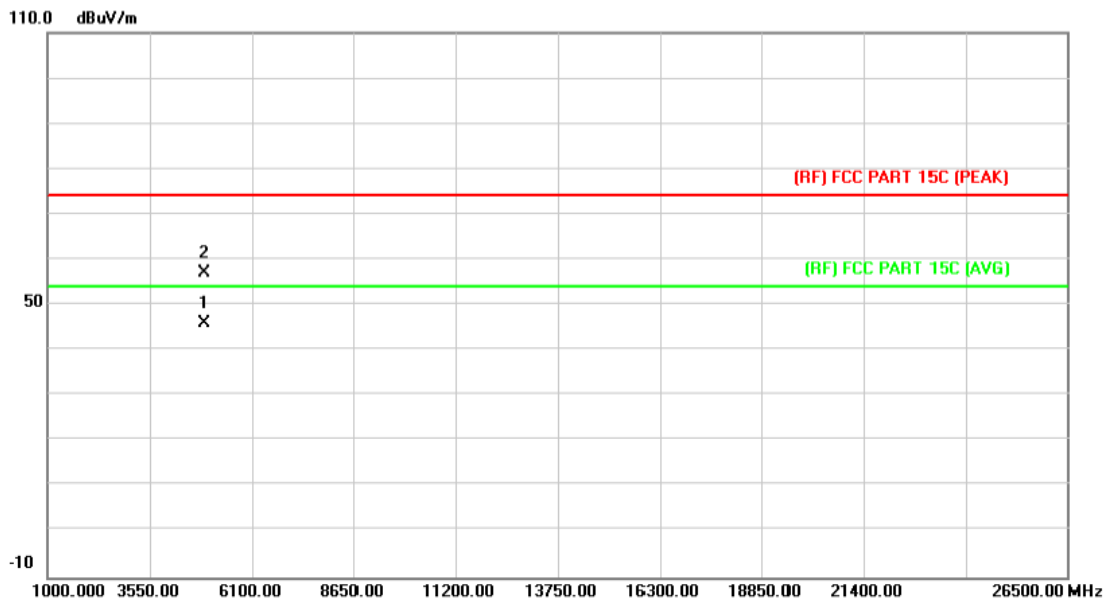
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4874.072	41.45	13.86	55.31	74.00	-18.69	peak
2	*	4875.047	30.25	13.87	44.12	54.00	-9.88	AVG

Emission Level= Read Level+ Correct Factor

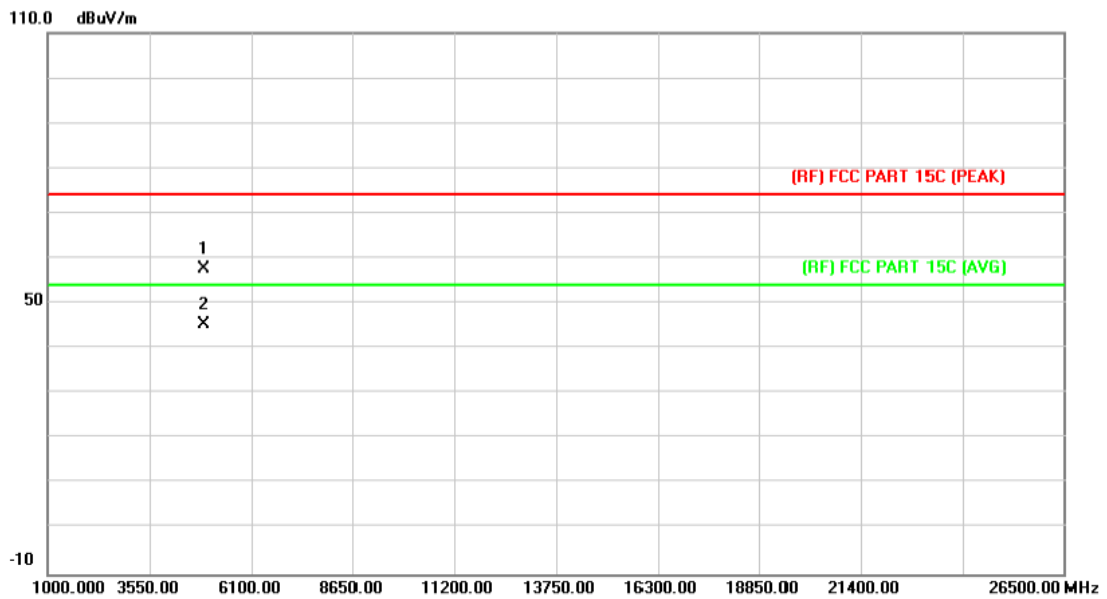
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.526	31.76	14.15	45.91	54.00	-8.09	AVG
2		4924.732	42.97	14.15	57.12	74.00	-16.88	peak

Emission Level= Read Level+ Correct Factor

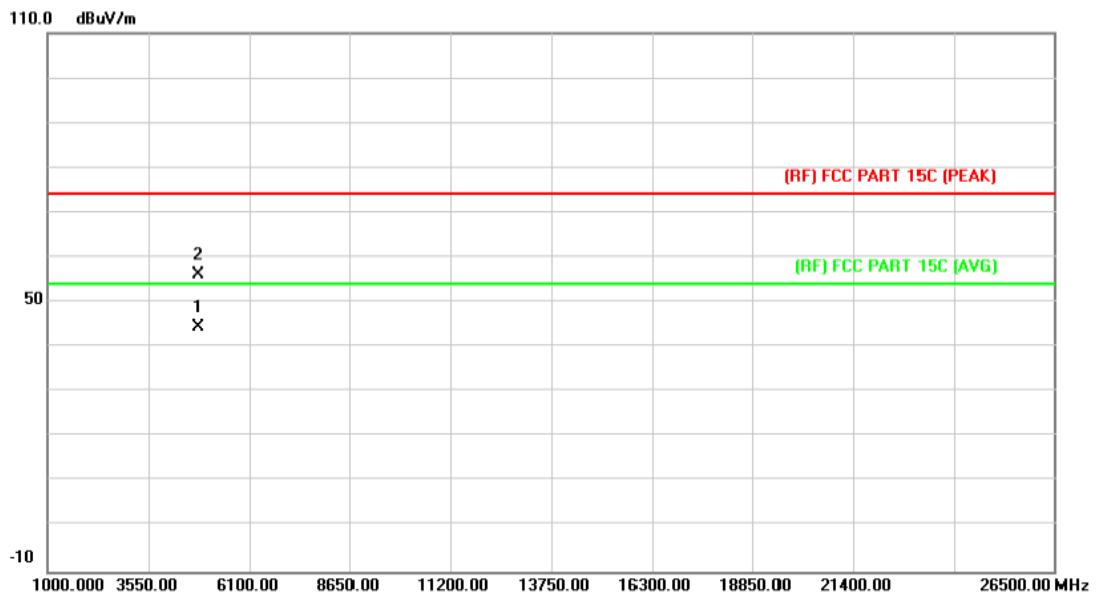
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.081	43.48	14.15	57.63	74.00	-16.37	peak
2	*	4924.240	31.23	14.15	45.38	54.00	-8.62	AVG

Emission Level= Read Level+ Correct Factor

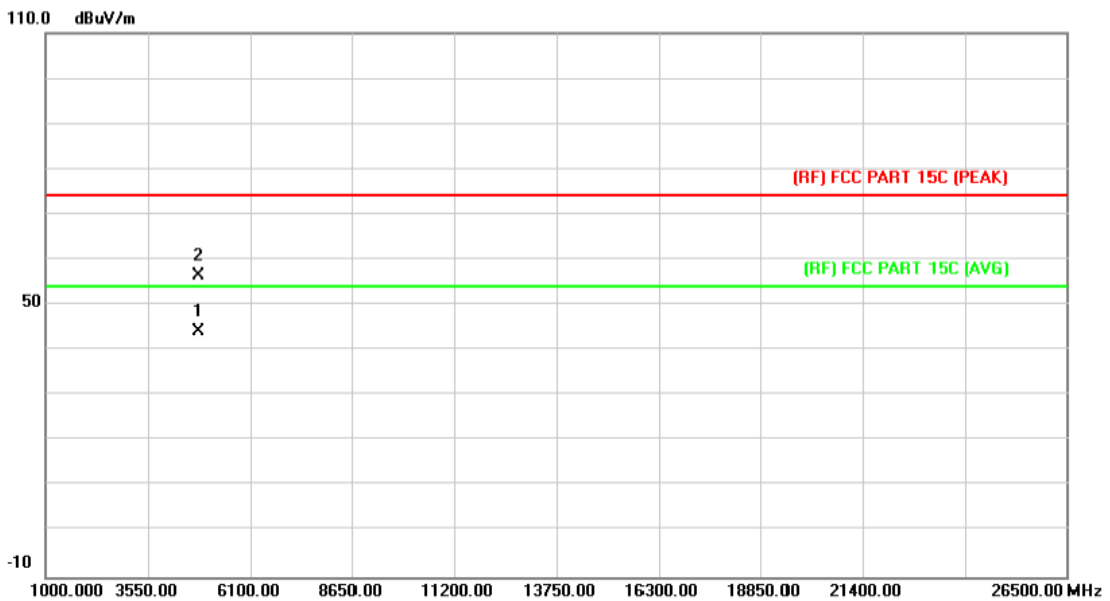
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4824.387	30.78	13.56	44.34	54.00	-9.66	AVG
2		4825.194	42.57	13.57	56.14	74.00	-17.86	peak

Emission Level= Read Level+ Correct Factor

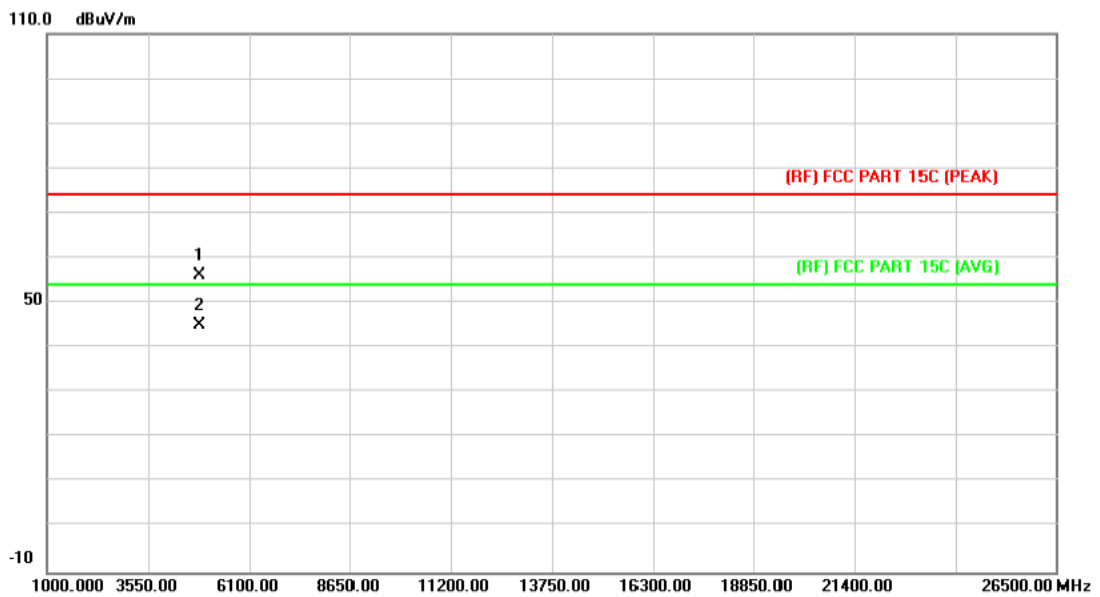
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4824.435	30.69	13.50	44.19	54.00	-9.81	AVG
2		4824.507	42.88	13.50	56.38	74.00	-17.62	peak

Emission Level= Read Level+ Correct Factor

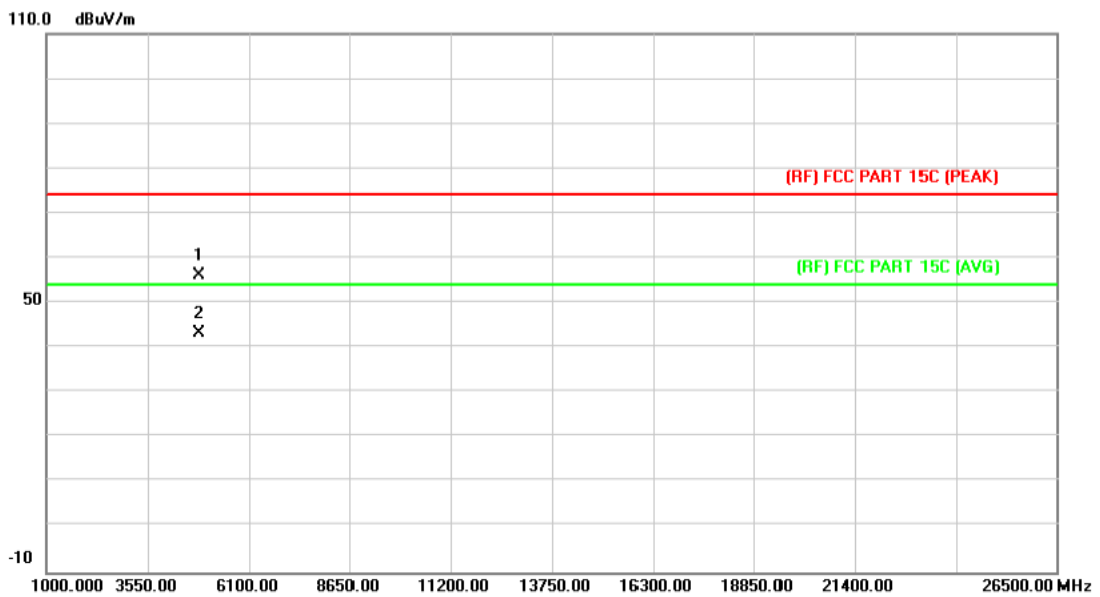
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.318	42.28	13.86	56.14	74.00	-17.86	peak
2	*	4875.029	31.23	13.87	45.10	54.00	-8.90	AVG

Emission Level= Read Level+ Correct Factor

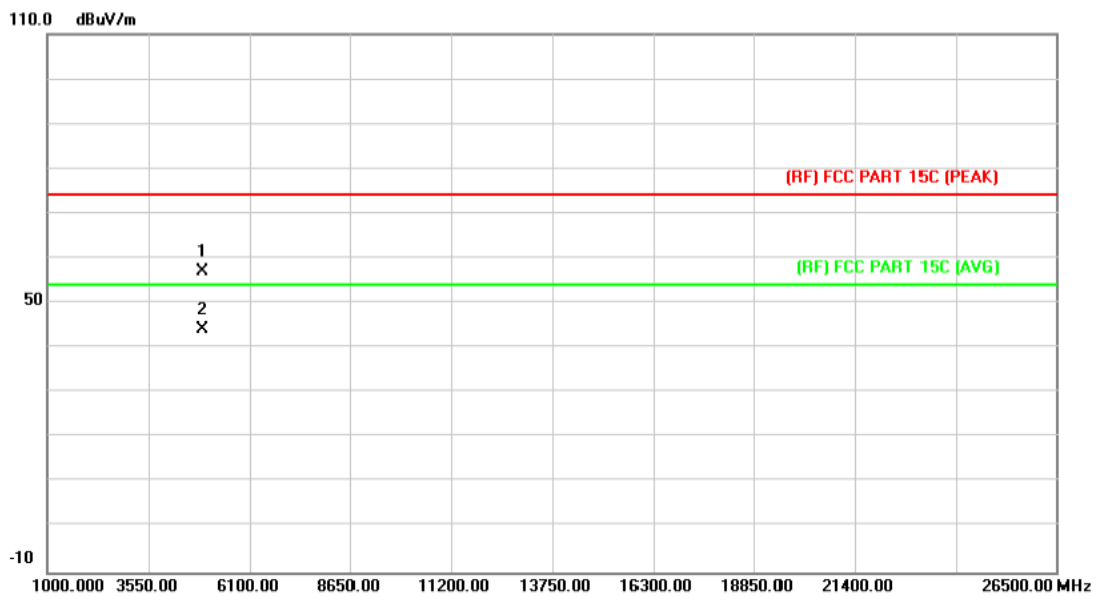
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4872.539	42.25	13.85	56.10	74.00	-17.90	peak
2	*	4874.942	29.35	13.86	43.21	54.00	-10.79	AVG

Emission Level= Read Level+ Correct Factor

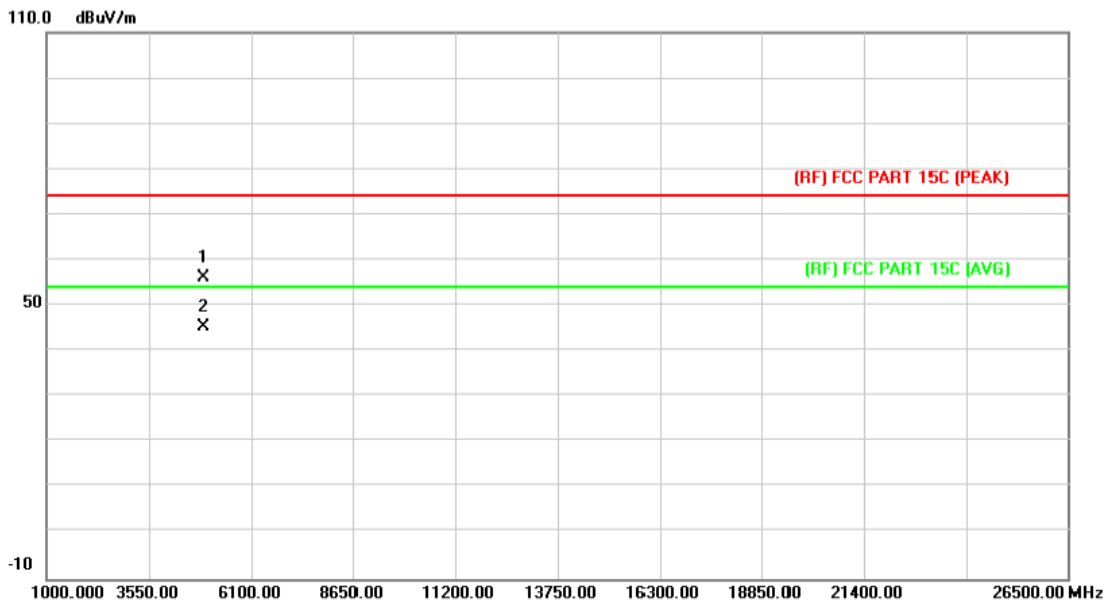
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.667	42.95	14.15	57.10	74.00	-16.90	peak
2	*	4925.494	30.05	14.16	44.21	54.00	-9.79	AVG

Emission Level= Read Level+ Correct Factor

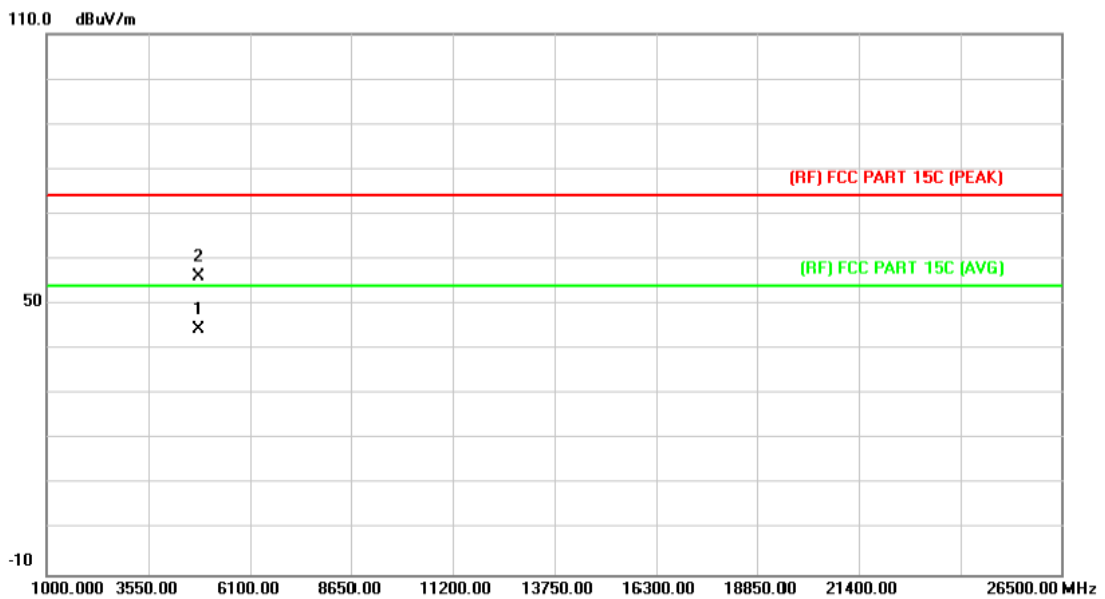
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.274	41.97	14.15	56.12	74.00	-17.88	peak
2	*	4923.892	31.16	14.15	45.31	54.00	-8.69	AVG

Emission Level= Read Level+ Correct Factor

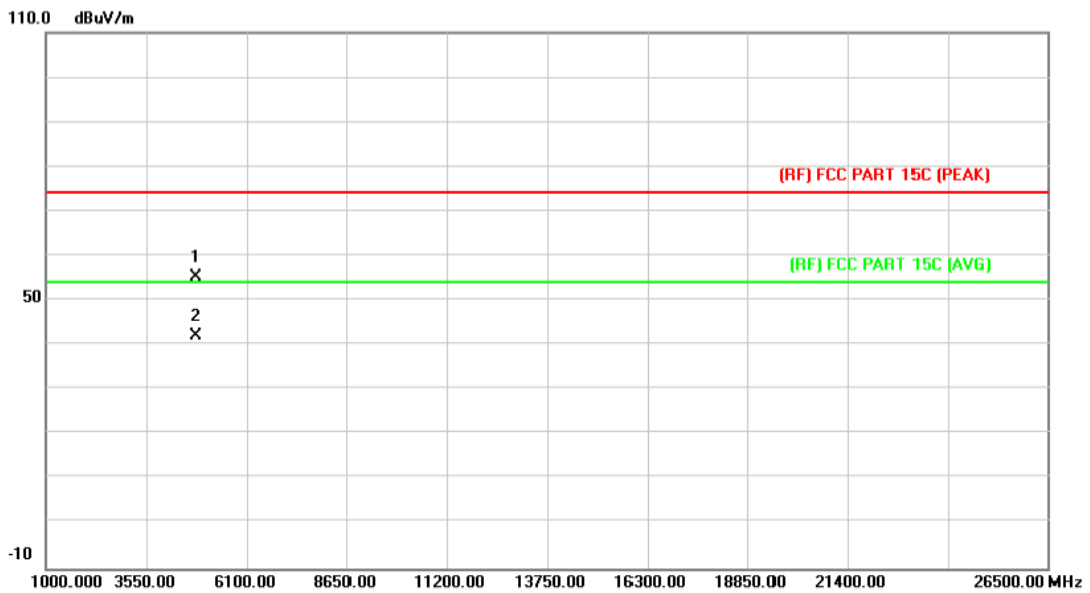
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4824.387	30.78	13.56	44.34	54.00	-9.66	AVG
2		4825.194	42.57	13.57	56.14	74.00	-17.86	peak

Emission Level= Read Level+ Correct Factor

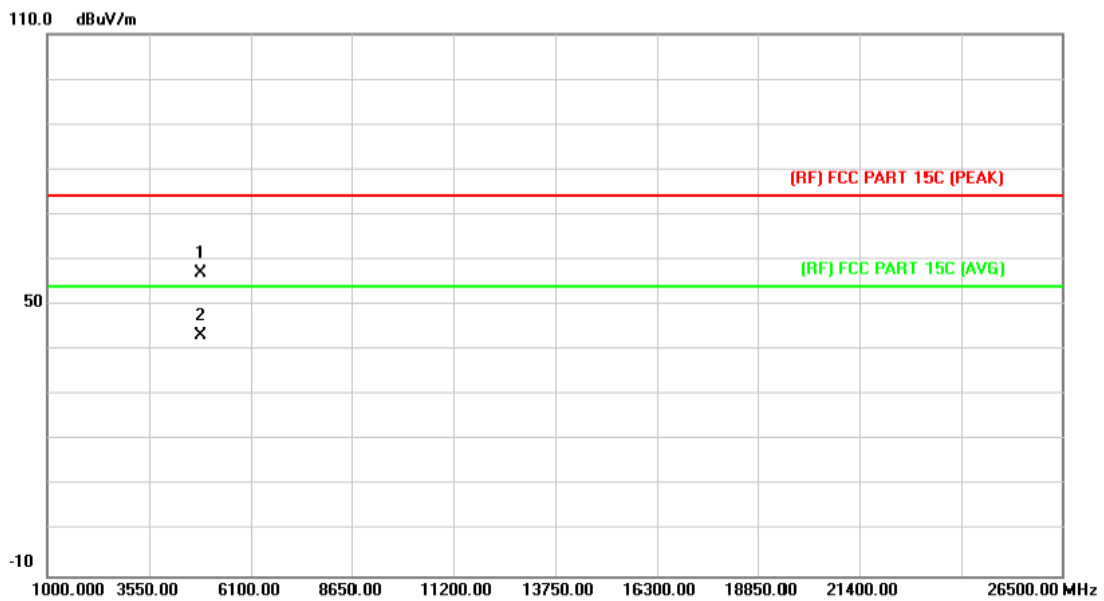
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4825.176	41.64	13.57	55.21	74.00	-18.79	peak
2	*	4825.353	28.59	13.57	42.16	54.00	-11.84	AVG

Emission Level= Read Level+ Correct Factor

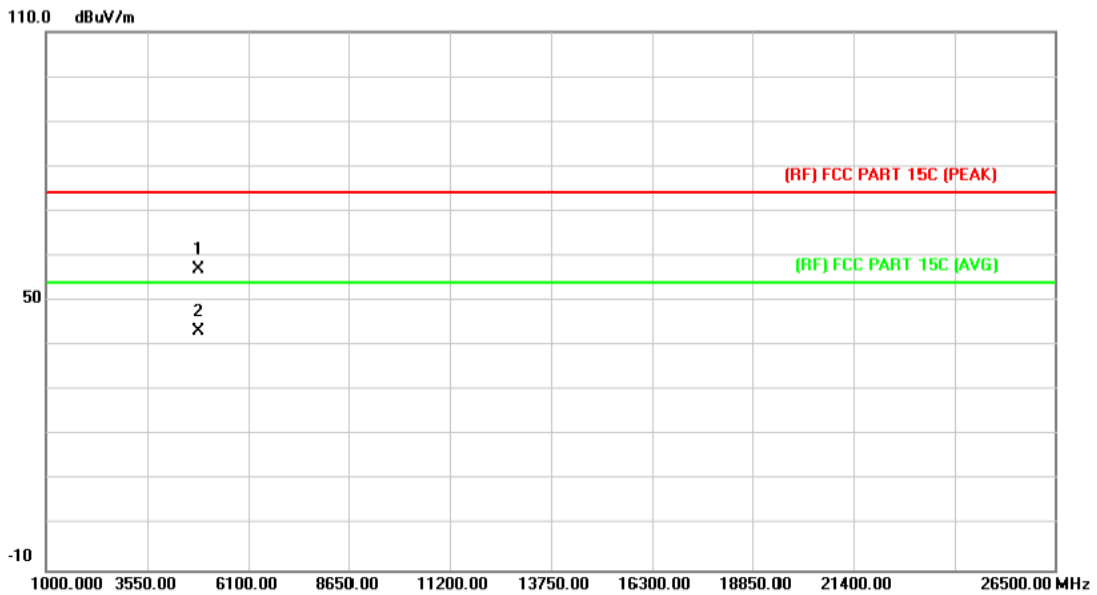
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.726	43.12	13.86	56.98	74.00	-17.02	peak
2	*	4874.882	29.33	13.86	43.19	54.00	-10.81	AVG

Emission Level= Read Level+ Correct Factor

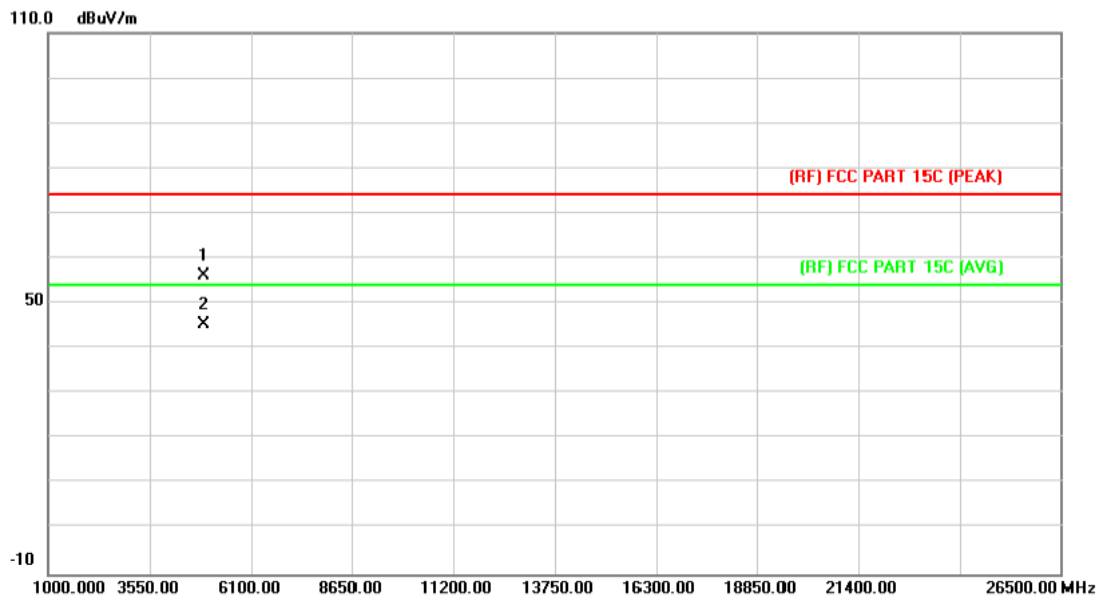
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4872.503	43.06	13.85	56.91	74.00	-17.09	peak
2	*	4872.503	29.34	13.85	43.19	54.00	-10.81	AVG

Emission Level= Read Level+ Correct Factor

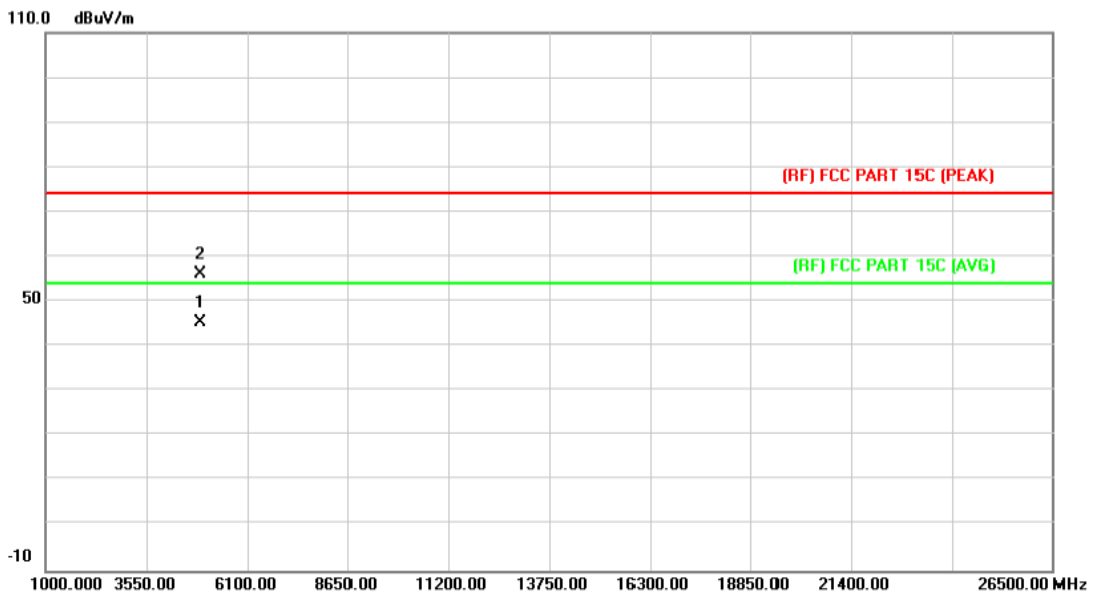
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4922.905	42.15	14.14	56.29	74.00	-17.71	peak
2	*	4924.201	31.21	14.15	45.36	54.00	-8.64	AVG

Emission Level= Read Level+ Correct Factor

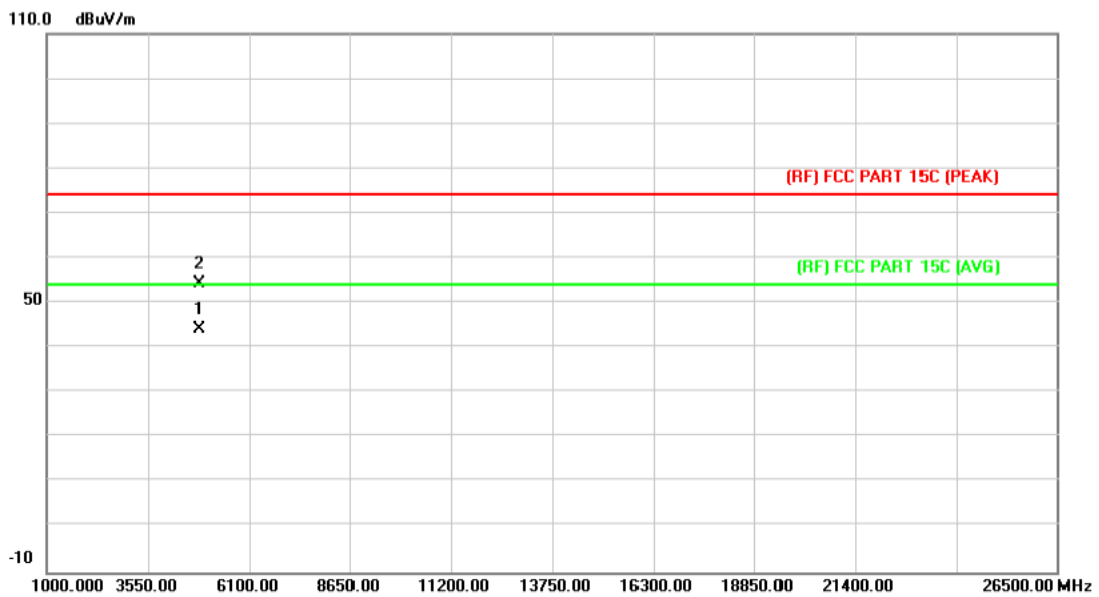
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4922.746	31.23	14.14	45.37	54.00	-8.63	AVG
2		4923.274	42.04	14.15	56.19	74.00	-17.81	peak

Emission Level= Read Level+ Correct Factor

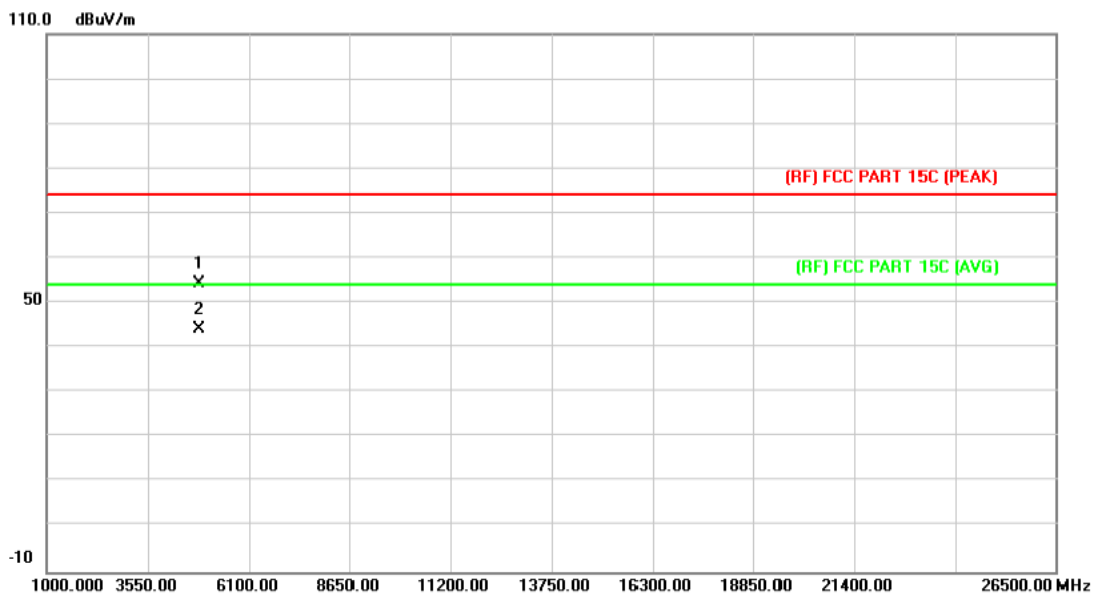
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4842.629	30.46	13.67	44.13	54.00	-9.87	AVG
2		4843.889	40.63	13.68	54.31	74.00	-19.69	peak

Emission Level= Read Level+ Correct Factor

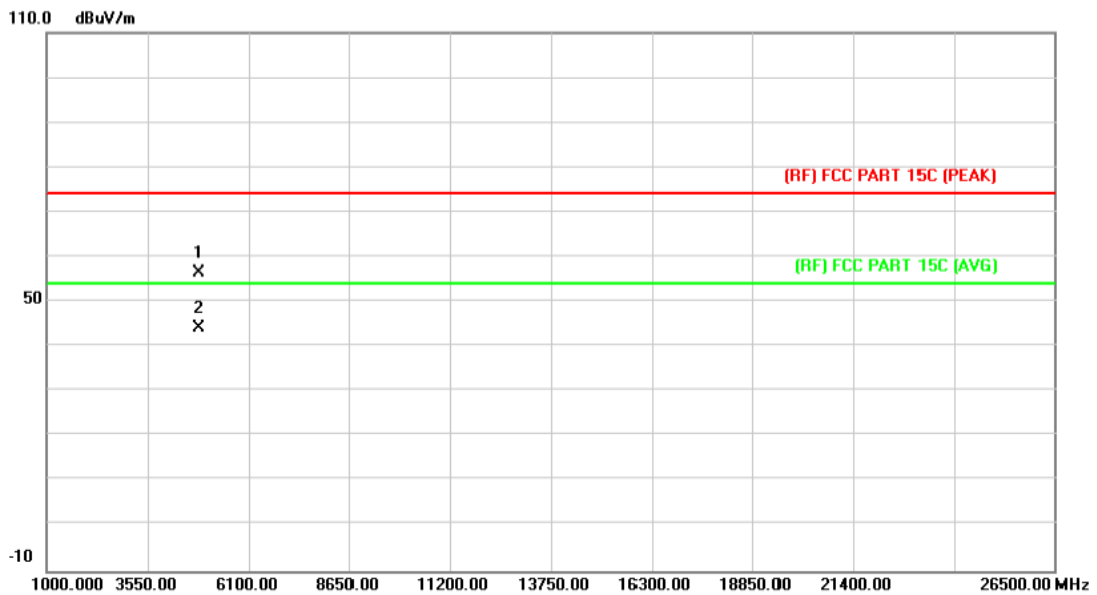
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4844.012	40.63	13.68	54.31	74.00	-19.69	peak
2	*	4844.990	30.45	13.68	44.13	54.00	-9.87	AVG

Emission Level= Read Level+ Correct Factor

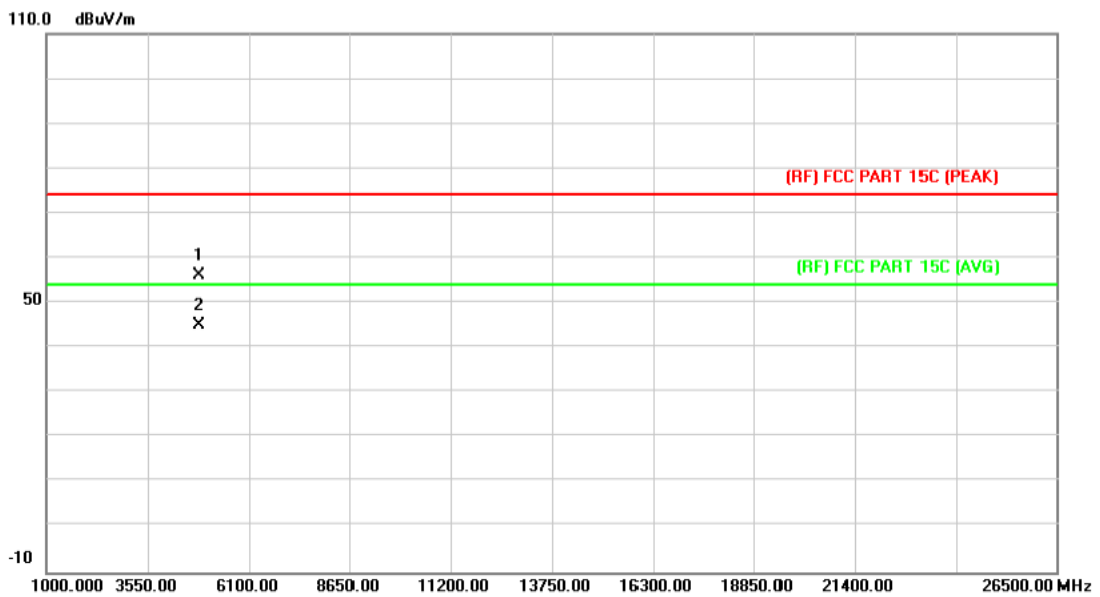
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.898	42.45	13.86	56.31	74.00	-17.69	peak
2	*	4874.150	30.26	13.86	44.12	54.00	-9.88	AVG

Emission Level= Read Level+ Correct Factor

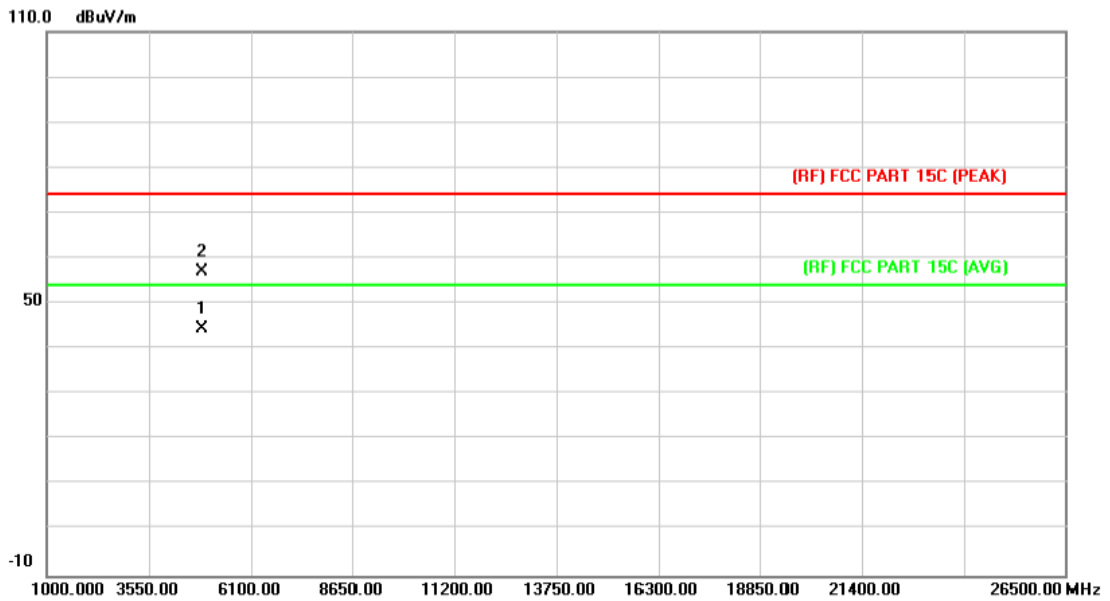
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.493	42.32	13.86	56.18	74.00	-17.82	peak
2	*	4874.024	31.05	13.86	44.91	54.00	-9.09	AVG

Emission Level= Read Level+ Correct Factor

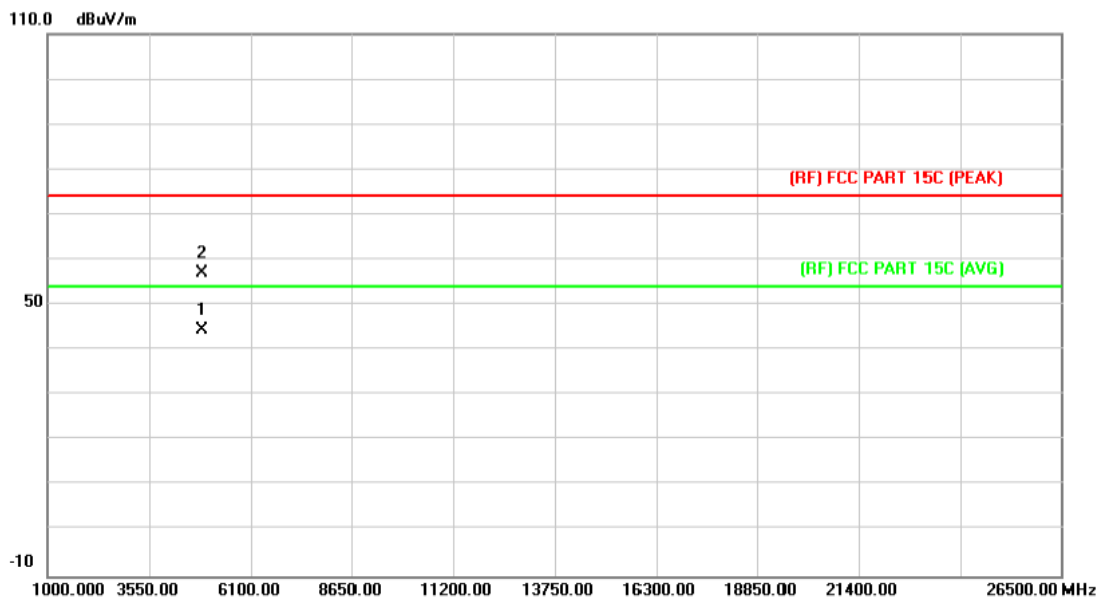
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4904.483	30.33	14.03	44.36	54.00	-9.64	AVG
2		4905.029	42.94	14.04	56.98	74.00	-17.02	peak

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4902.500	30.29	14.02	44.31	54.00	-9.69	AVG
2		4904.465	42.95	14.03	56.98	74.00	-17.02	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

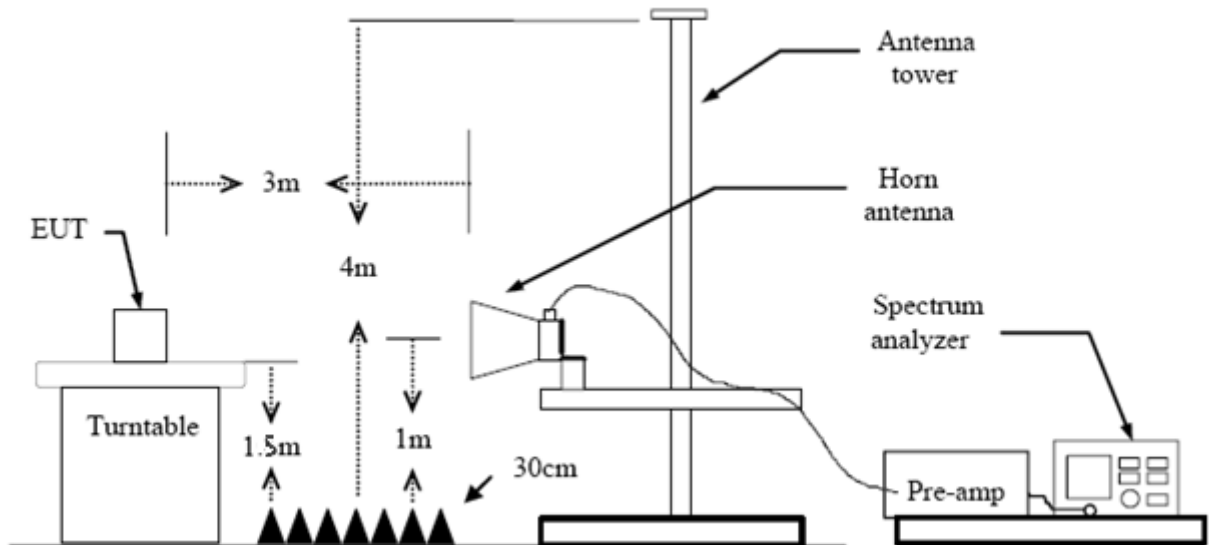
6.1 Test Standard and Limit

- 6.1.1 Test Standard
 - FCC Part 15.247(d)
 - FCC Part 15.209
 - FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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 Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

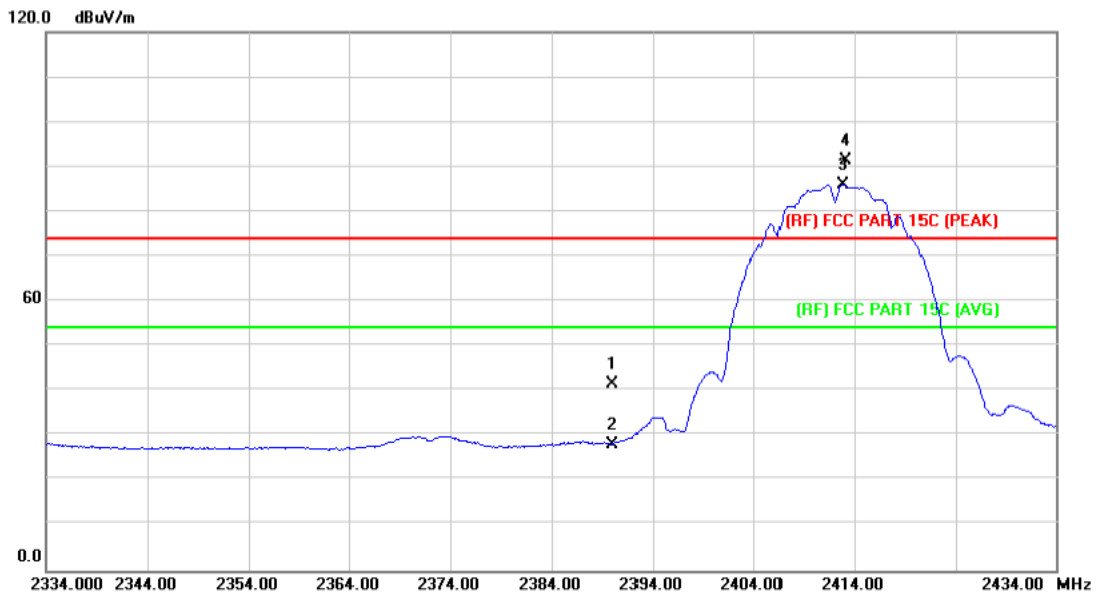
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

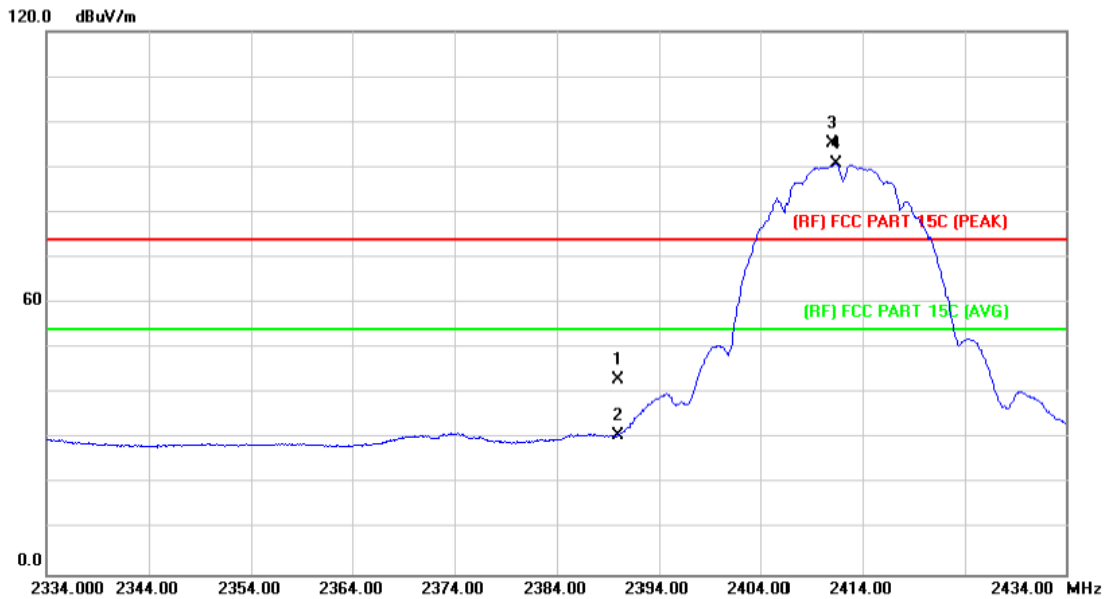
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	40.92	0.77	41.69	74.00	-32.31	peak
2		2390.000	27.37	0.77	28.14	54.00	-25.86	AVG
3	*	2412.800	85.18	0.86	86.04	Fundamental Frequency		AVG
4	X	2413.100	90.36	0.86	91.22	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

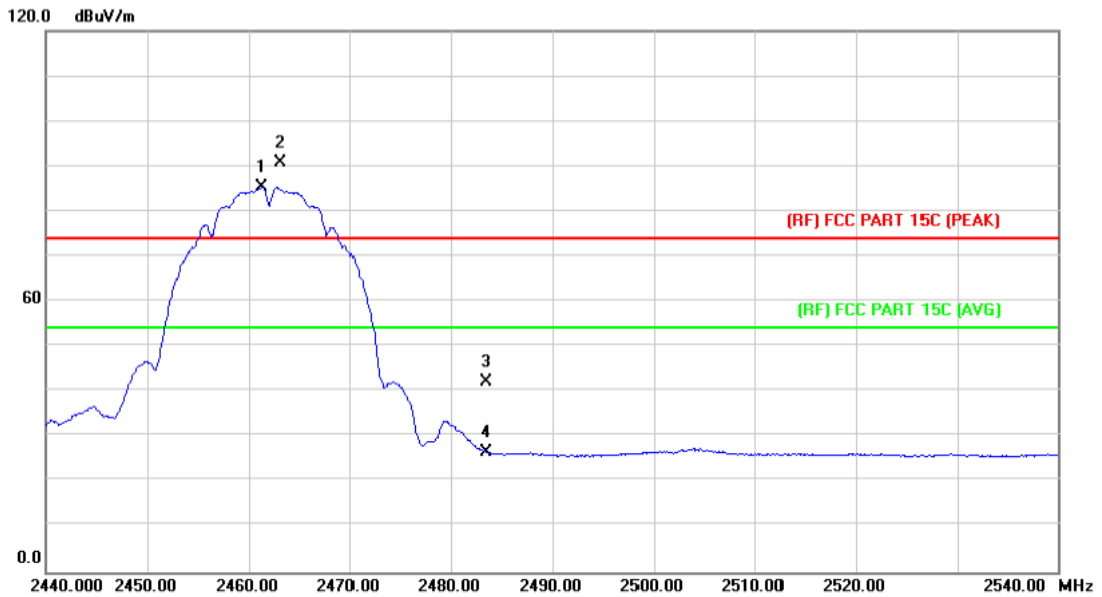
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.35	0.77	43.12	74.00	-30.88	peak
2		2390.000	30.03	0.77	30.80	54.00	-23.20	AVG
3	X	2411.000	94.50	0.86	95.36	Fundamental Frequency		peak
4	*	2411.400	89.95	0.86	90.81	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

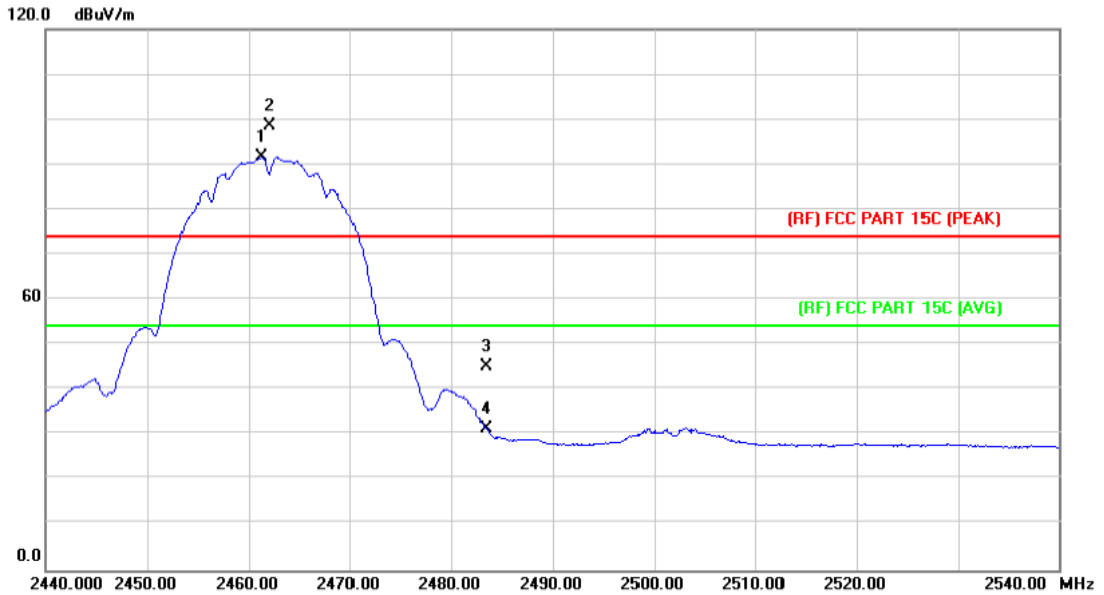
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.300	84.27	1.07	85.34	Fundamental Frequency		AVG
2	X	2463.100	89.60	1.08	90.68	Fundamental Frequency		peak
3		2483.500	40.84	1.17	42.01	74.00	-31.99	peak
4		2483.500	25.46	1.17	26.63	54.00	-27.37	AVG

Emission Level= Read Level+ Correct Factor

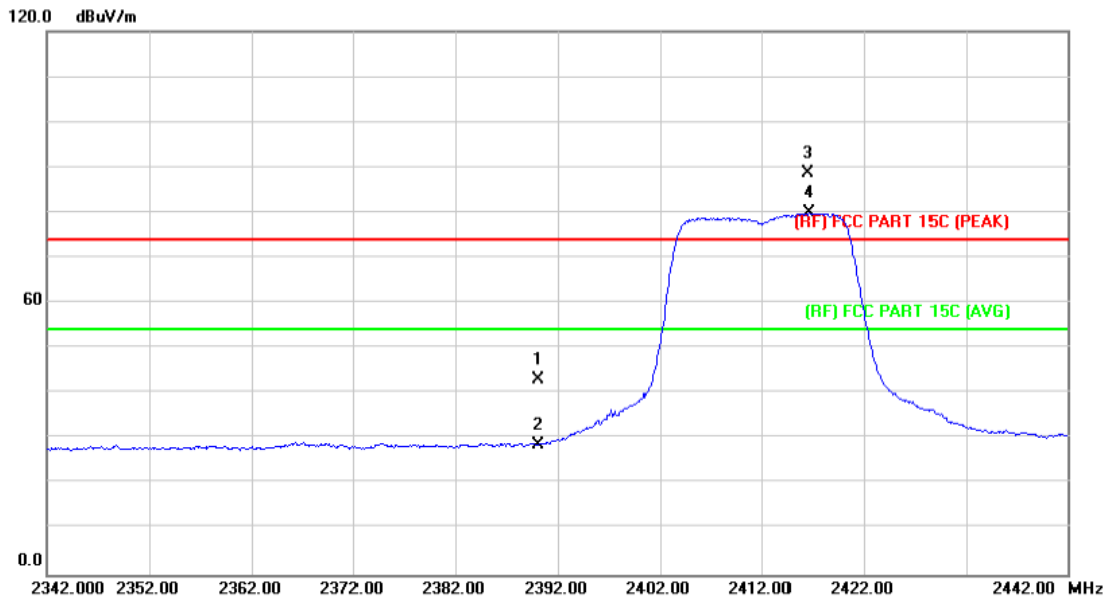
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.300	90.55	1.07	91.62	Fundamental Frequency		AVG
2	X	2462.000	97.55	1.08	98.63	Fundamental Frequency		peak
3		2483.500	43.93	1.17	45.10	74.00	-28.90	peak
4		2483.500	30.14	1.17	31.31	54.00	-22.69	AVG

Emission Level= Read Level+ Correct Factor

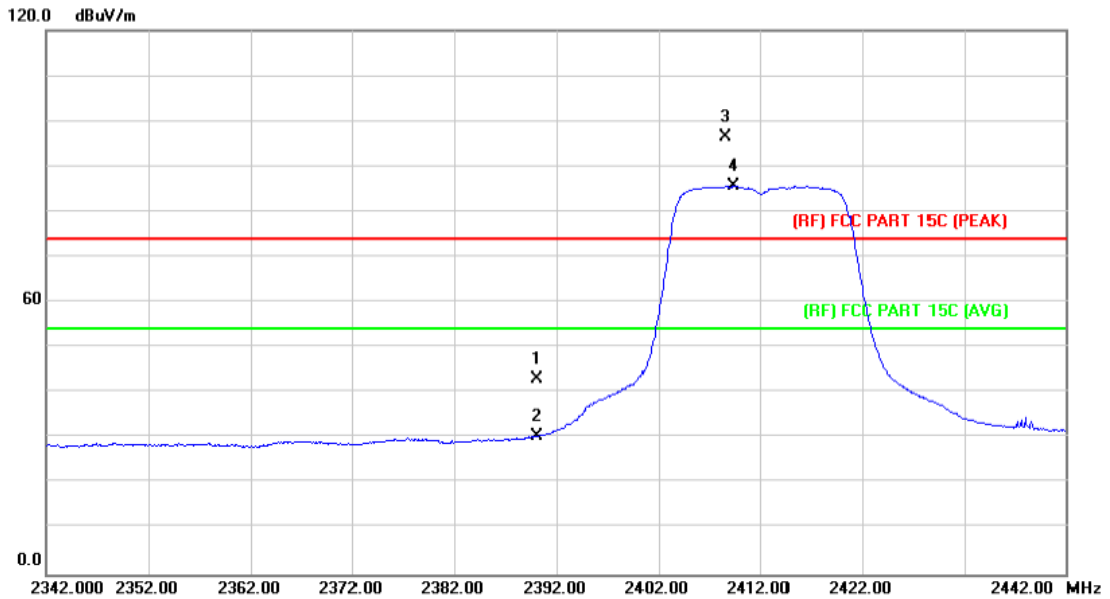
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.42	0.77	43.19	74.00	-30.81	peak
2		2390.000	27.94	0.77	28.71	54.00	-25.29	AVG
3	X	2416.500	87.81	0.88	88.69	Fundamental Frequency		peak
4	*	2416.600	78.94	0.88	79.82	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

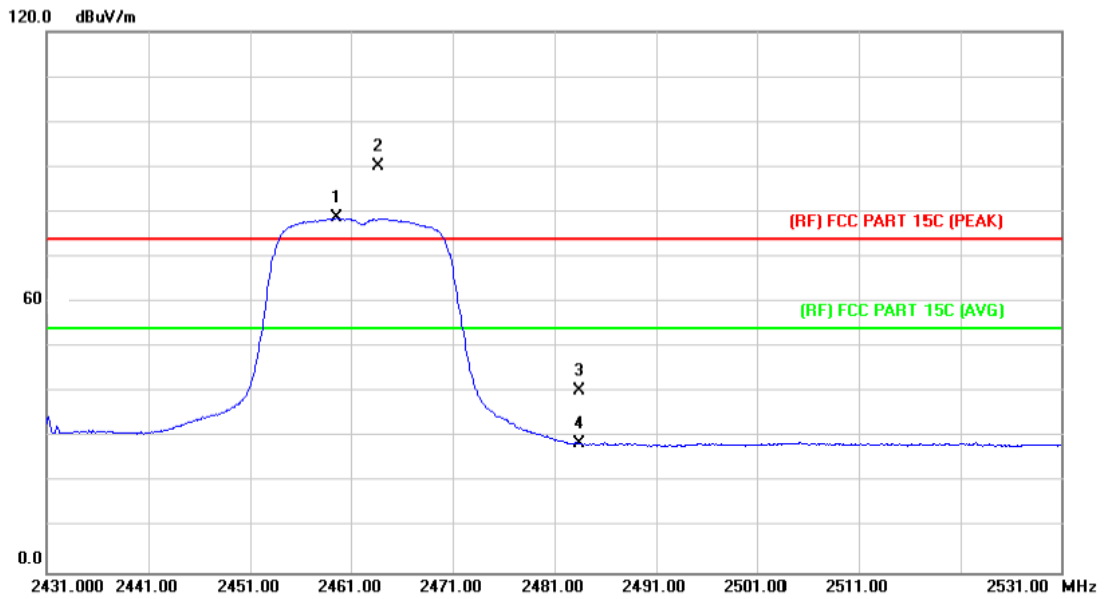
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.35	0.77	43.12	74.00	-30.88	peak
2		2390.000	29.66	0.77	30.43	54.00	-23.57	AVG
3	X	2408.600	95.47	0.85	96.32	Fundamental Frequency		peak
4	*	2409.400	84.77	0.85	85.62	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

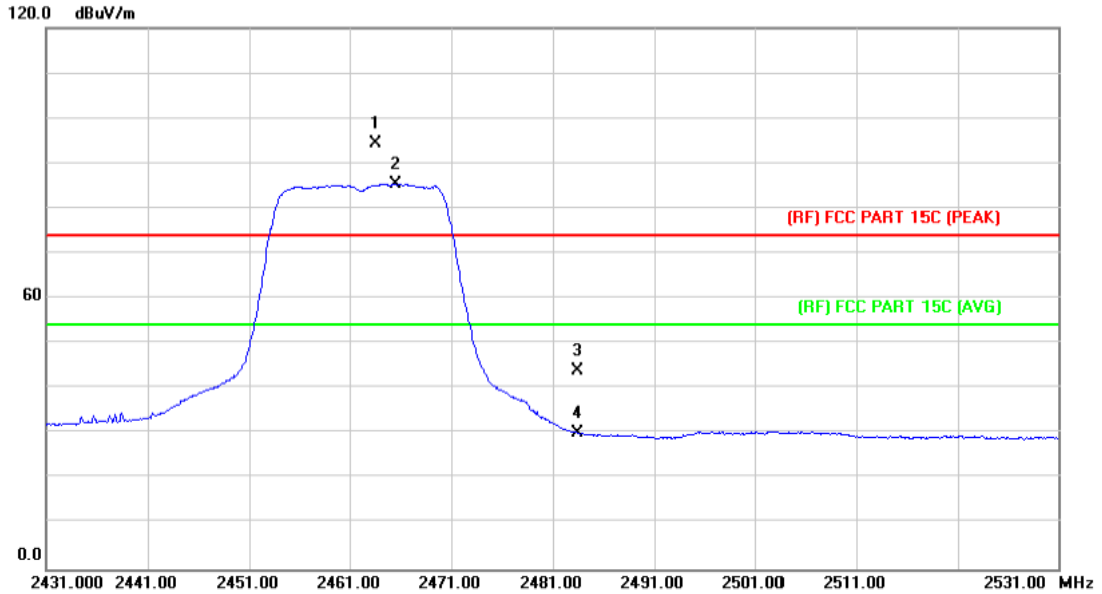
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2459.600	77.55	1.06	78.61	Fundamental Frequency		AVG
2	X	2463.600	88.98	1.08	90.06	Fundamental Frequency		peak
3		2483.500	39.19	1.17	40.36	74.00	-33.64	peak
4		2483.500	27.36	1.17	28.53	54.00	-25.47	AVG

Emission Level= Read Level+ Correct Factor

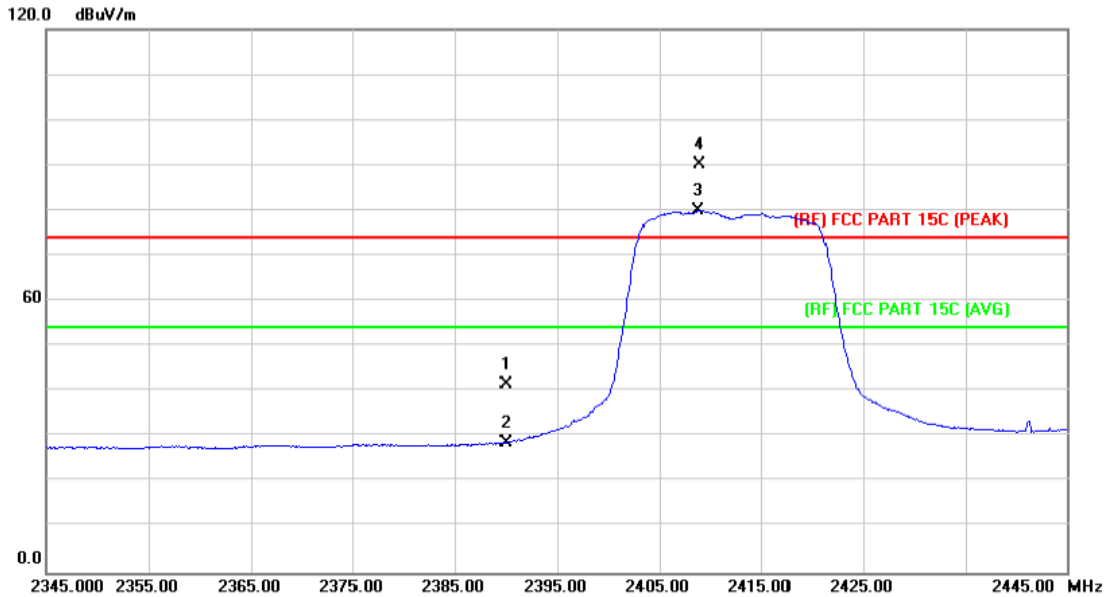
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2463.500	93.28	1.08	94.36	Fundamental Frequency		peak
2	*	2465.400	84.28	1.09	85.37	Fundamental Frequency		AVG
3		2483.500	42.93	1.17	44.10	74.00	-29.90	peak
4		2483.500	29.01	1.17	30.18	54.00	-23.82	AVG

Emission Level= Read Level+ Correct Factor

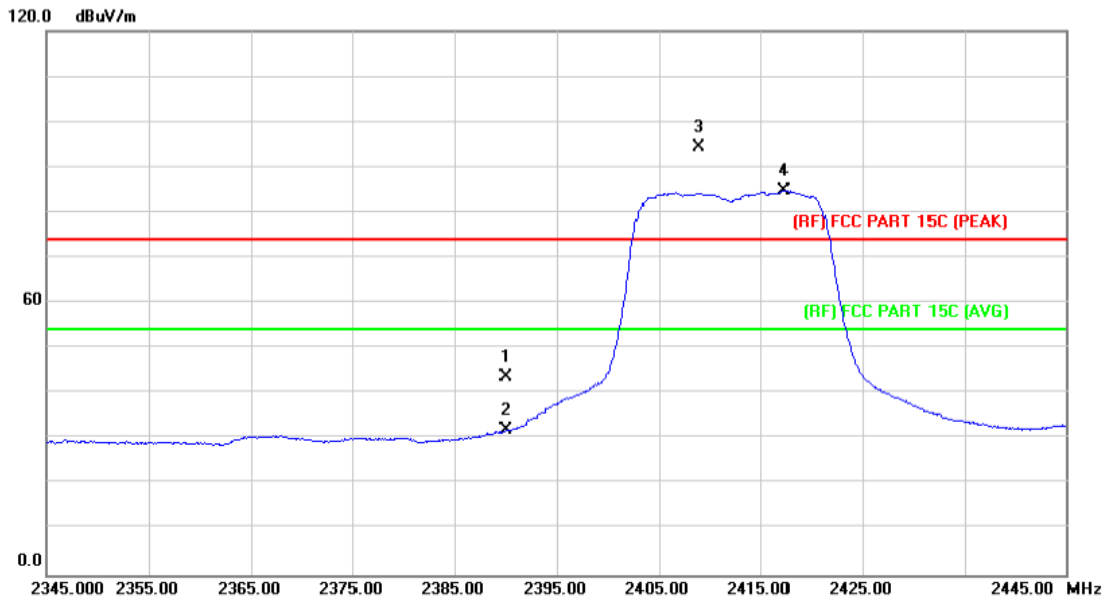
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	40.92	0.77	41.69	74.00	-32.31	peak
2		2390.000	28.02	0.77	28.79	54.00	-25.21	AVG
3	*	2408.800	79.05	0.85	79.90	Fundamental Frequency		AVG
4	X	2408.900	89.25	0.85	90.10	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

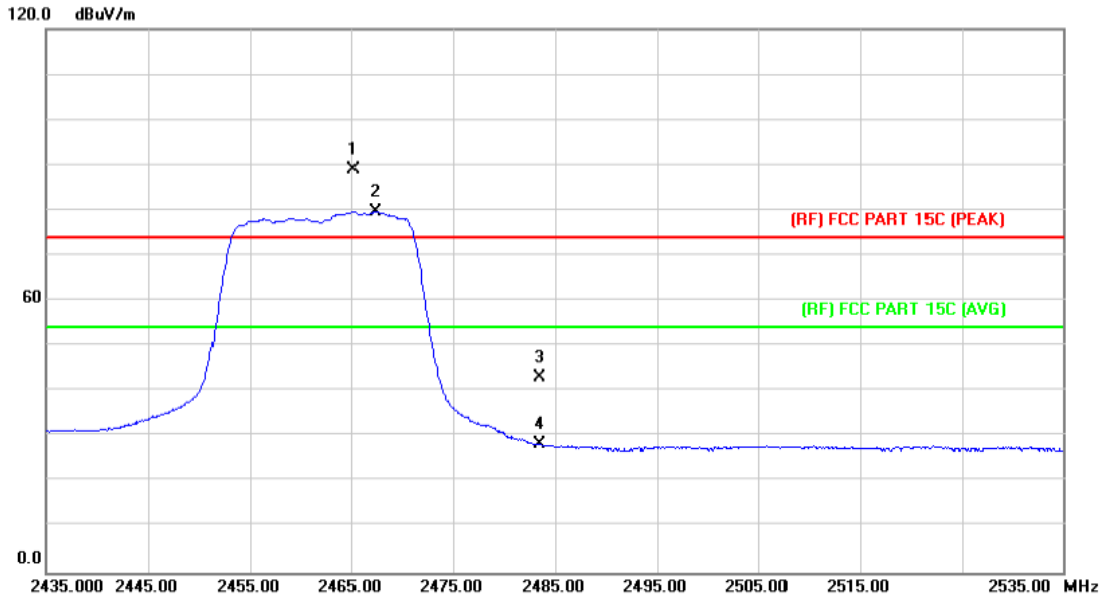
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.91	0.77	43.68	74.00	-30.32	peak
2		2390.000	31.13	0.77	31.90	54.00	-22.10	AVG
3	X	2408.900	93.47	0.85	94.32	Fundamental Frequency		peak
4	*	2417.300	83.90	0.89	84.79	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

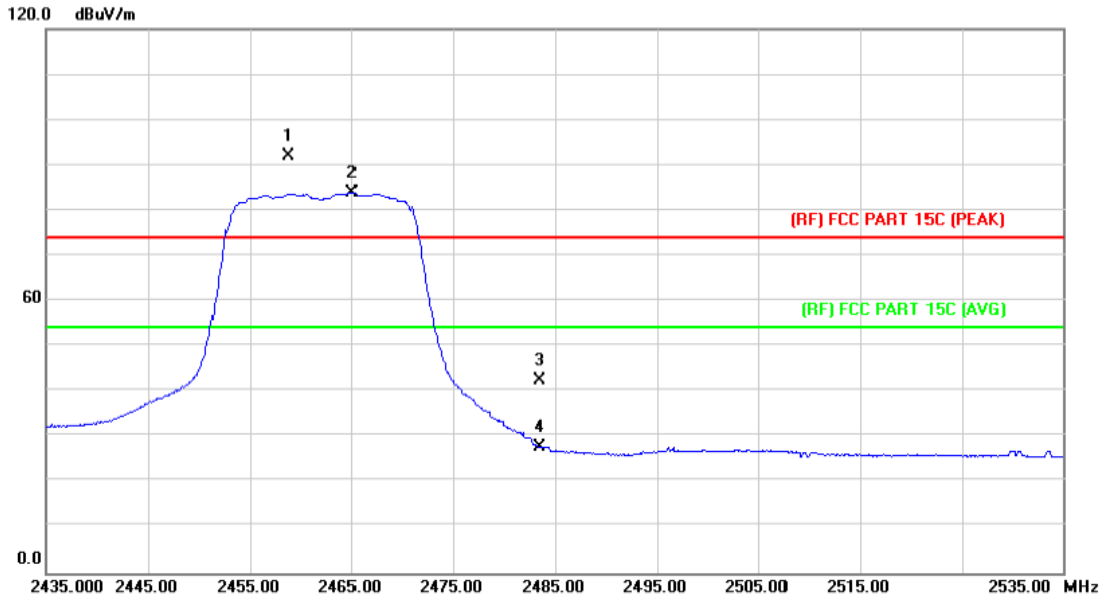
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2465.200	87.91	1.09	89.00	Fundamental Frequency		peak
2	*	2467.300	78.58	1.10	79.68	Fundamental Frequency		AVG
3		2483.500	41.93	1.17	43.10	74.00	-30.90	peak
4		2483.500	27.06	1.17	28.23	54.00	-25.77	AVG

Emission Level= Read Level+ Correct Factor

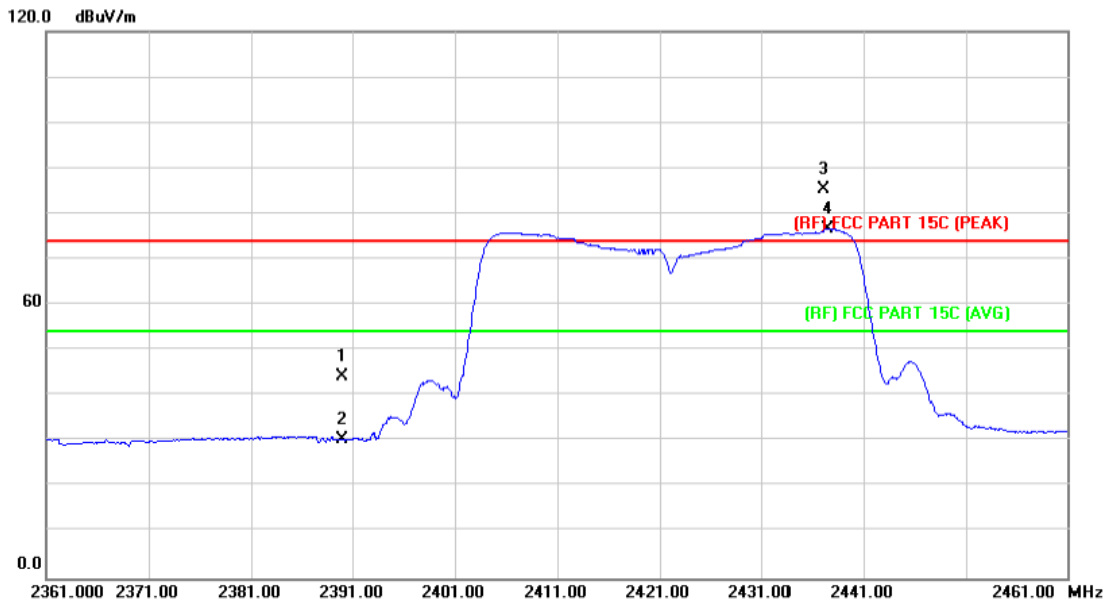
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2458.800	90.98	1.06	92.04	Fundamental Frequency		peak
2	*	2465.000	82.79	1.09	83.88	Fundamental Frequency		AVG
3		2483.500	41.19	1.17	42.36	74.00	-31.64	peak
4		2483.500	26.60	1.17	27.77	54.00	-26.23	AVG

Emission Level= Read Level+ Correct Factor

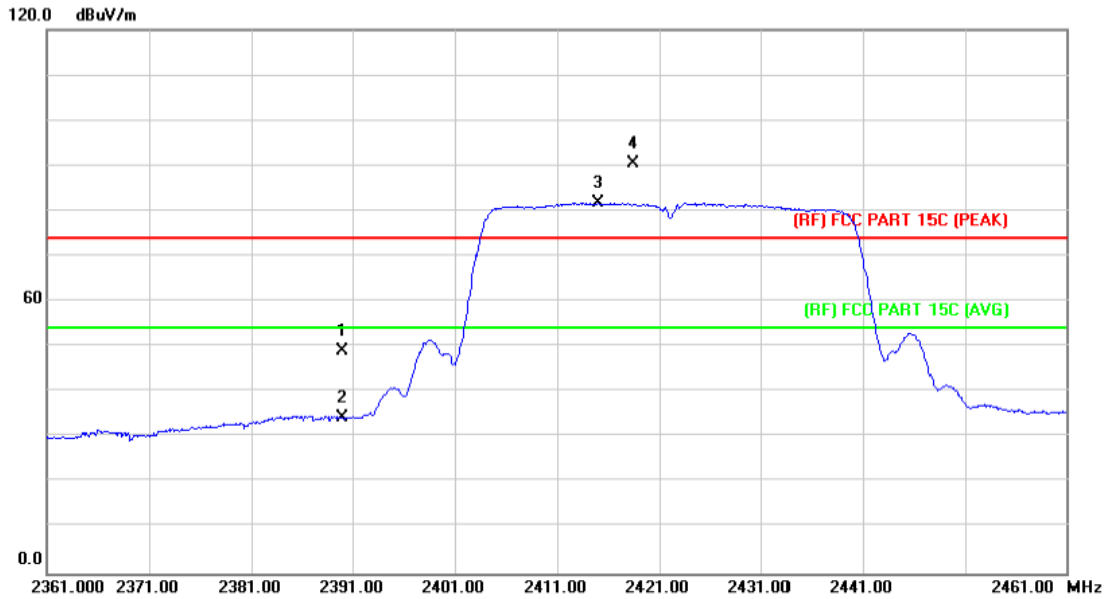
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	43.47	0.77	44.24	74.00	-29.76	peak
2		2390.000	29.66	0.77	30.43	54.00	-23.57	AVG
3	X	2437.100	84.39	0.97	85.36	Fundamental Frequency		peak
4	*	2437.400	75.65	0.97	76.62	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

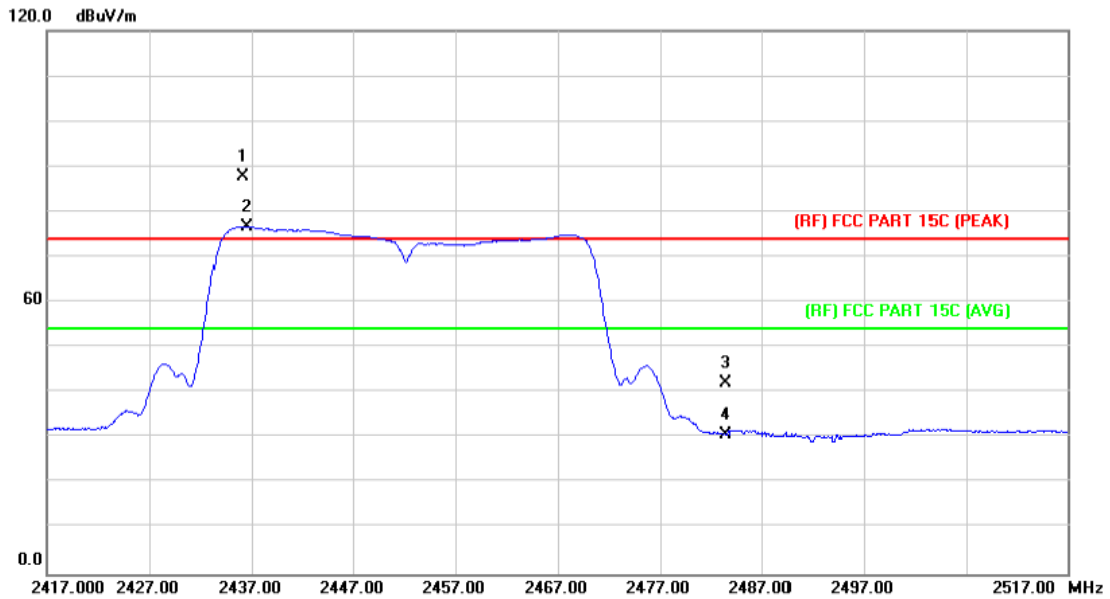
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2390.000	48.15	0.77	48.92	74.00	-25.08	peak
2		2390.000	33.46	0.77	34.23	54.00	-19.77	AVG
3	*	2415.000	80.87	0.88	81.75	Fundamental Frequency		AVG
4	X	2418.500	89.47	0.89	90.36	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

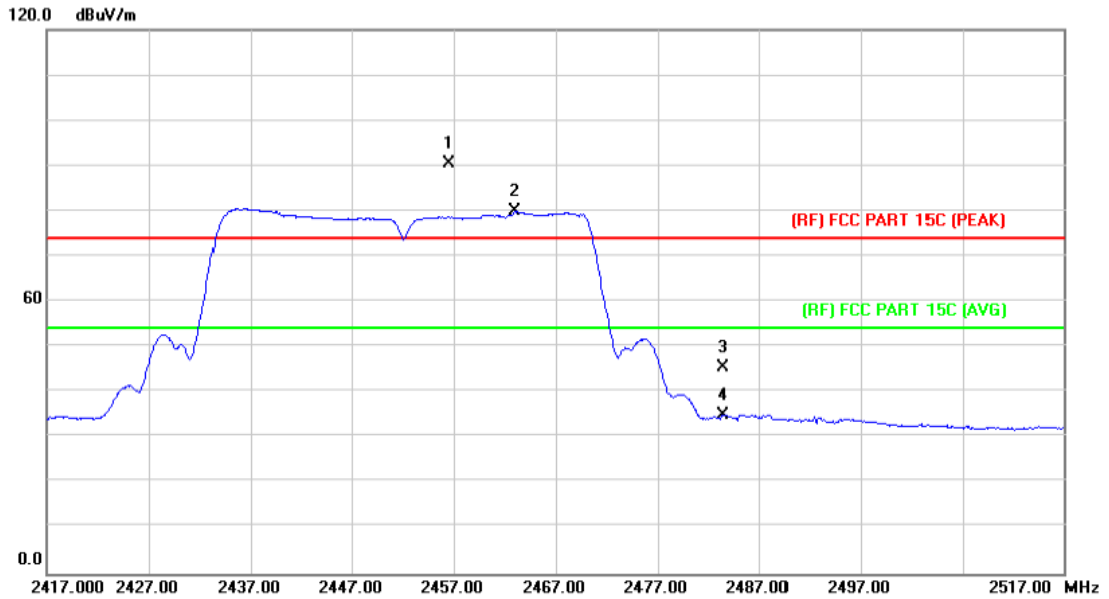
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2436.100	86.81	0.97	87.78	Fundamental Frequency		peak
2	*	2436.500	75.74	0.97	76.71	Fundamental Frequency		AVG
3		2483.500	40.84	1.17	42.01	74.00	-31.99	peak
4		2483.500	29.72	1.17	30.89	54.00	-23.11	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

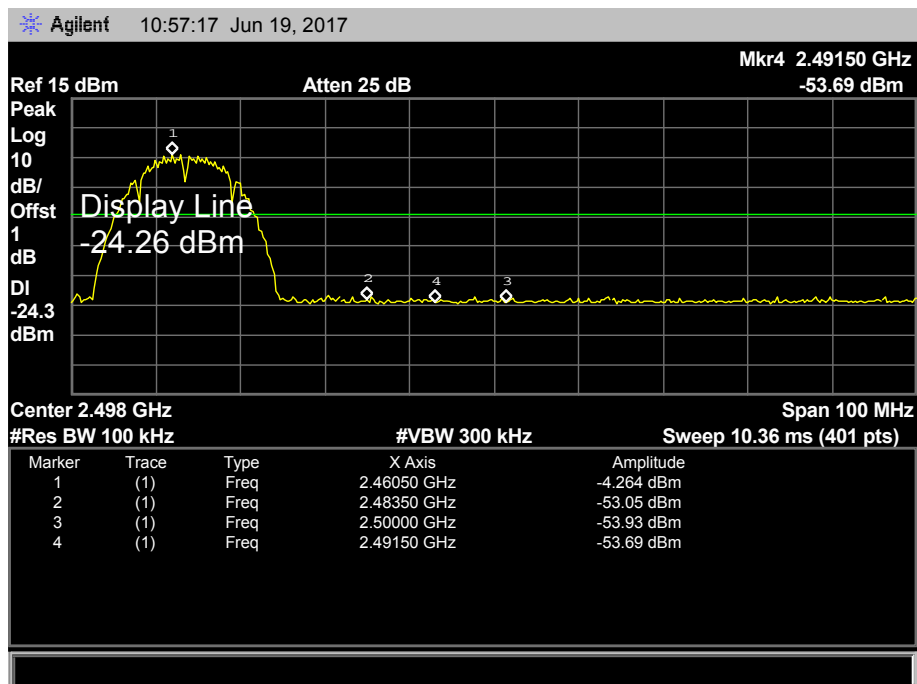
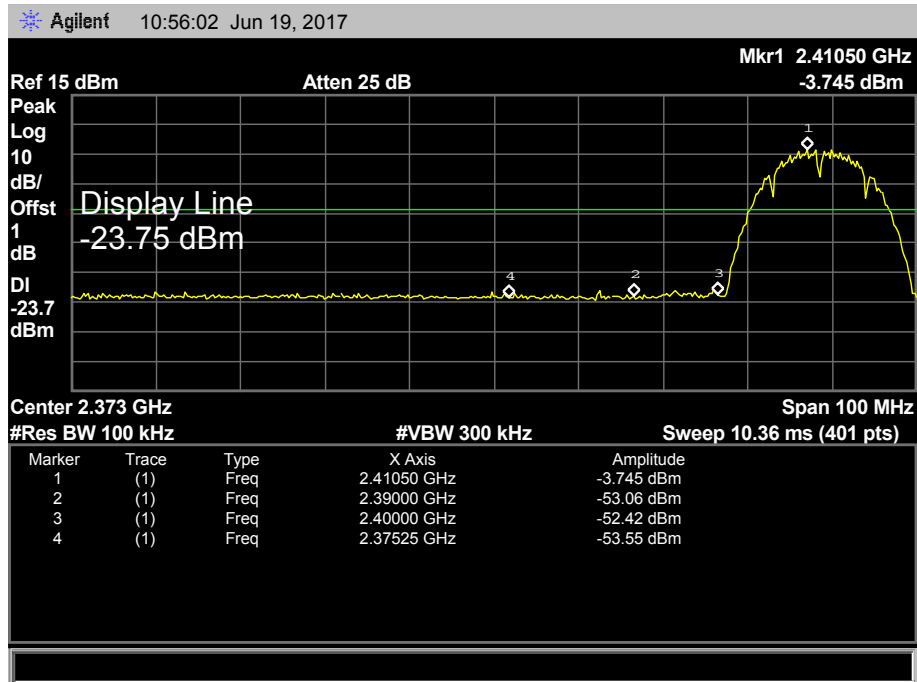


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2456.500	89.26	1.05	90.31	Fundamental Frequency		peak
2	*	2462.900	78.79	1.08	79.87	Fundamental Frequency		AVG
3		2483.500	44.14	1.17	45.31	74.00	-28.69	peak
4		2483.500	33.69	1.17	34.86	54.00	-19.14	AVG

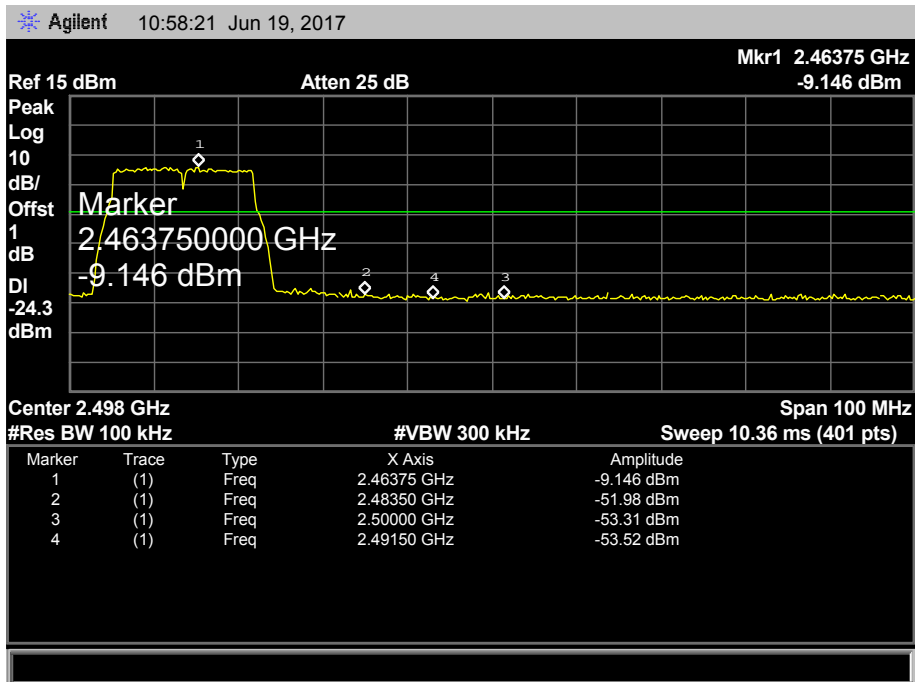
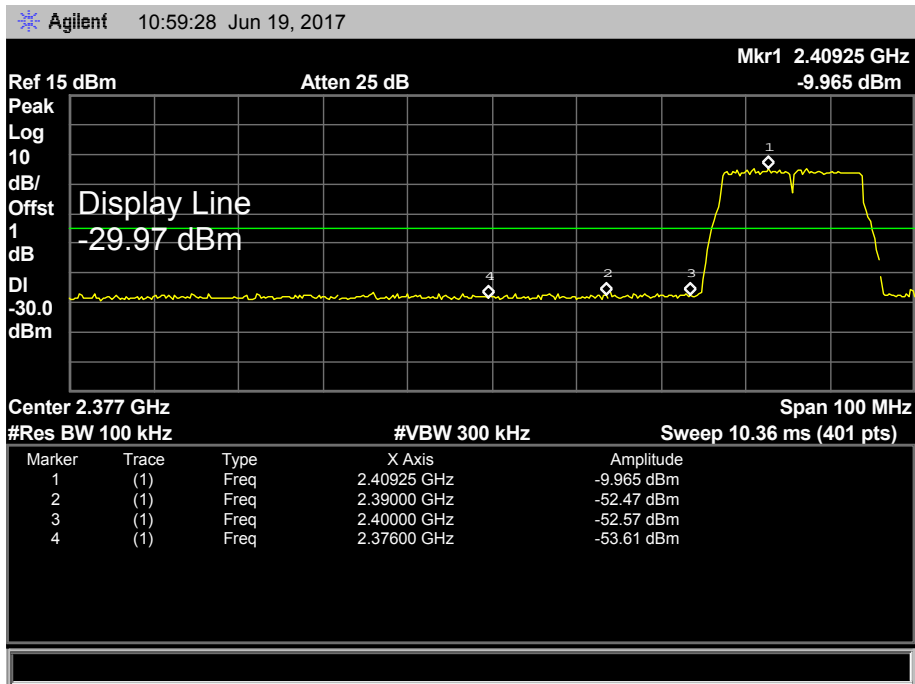
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

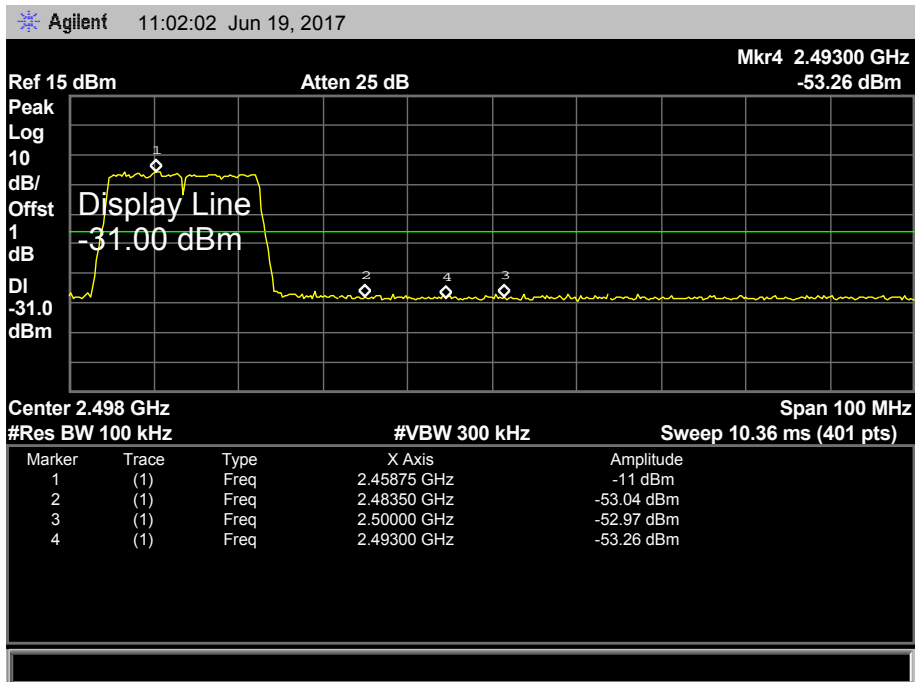
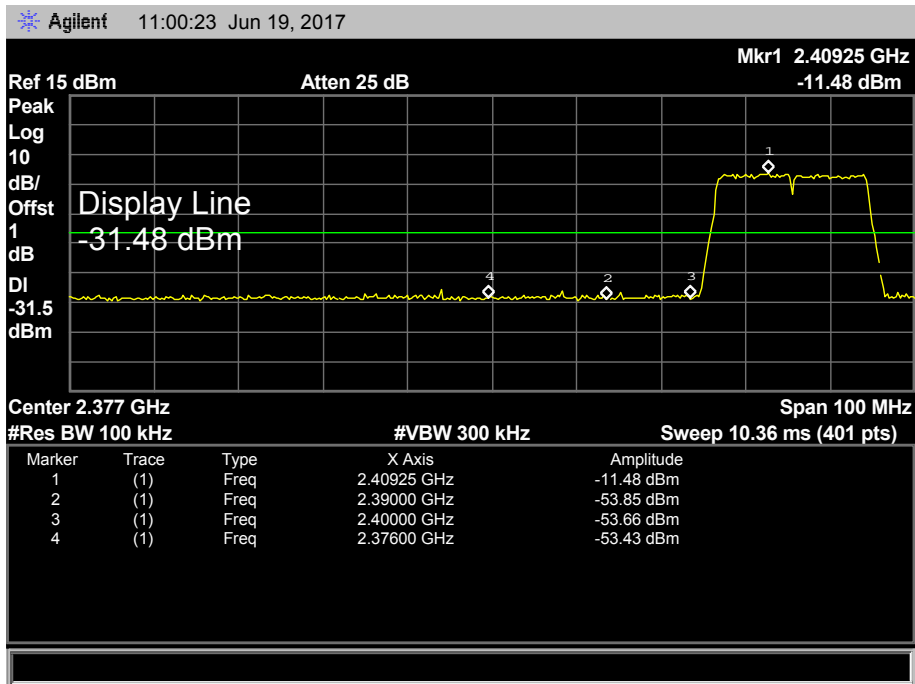
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



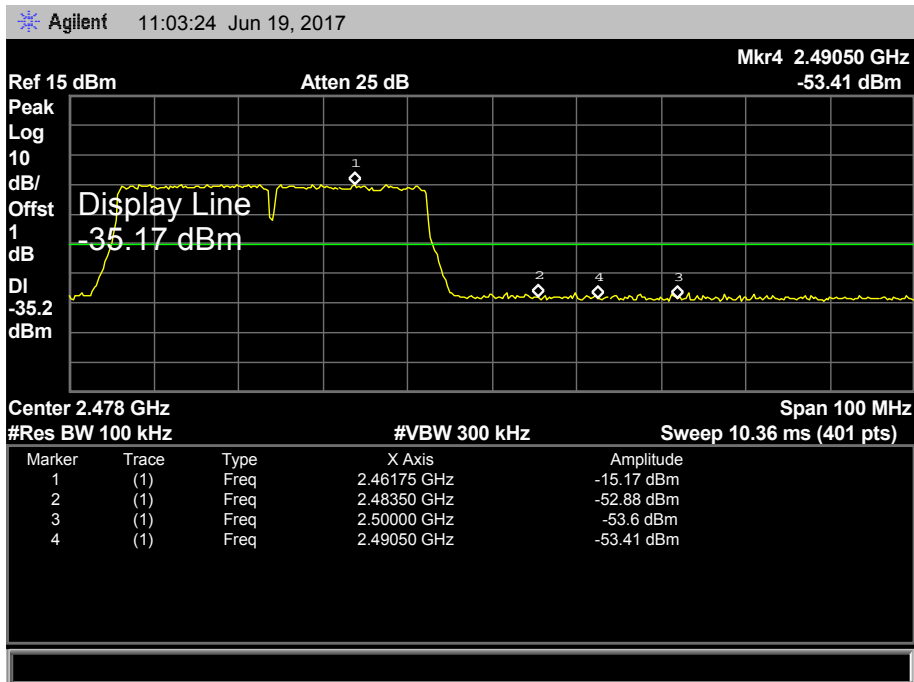
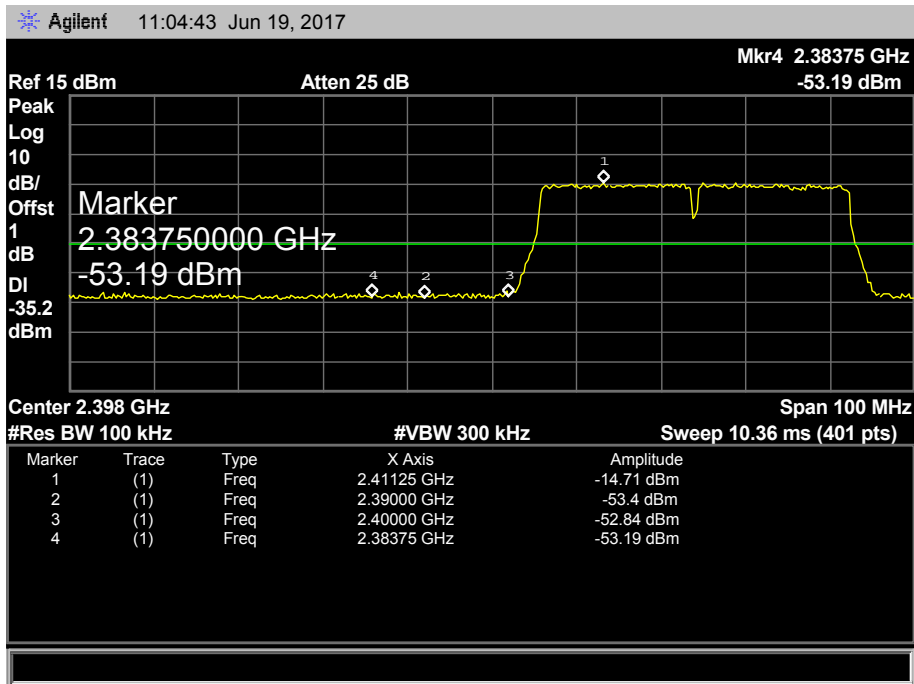
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



7. Bandwidth Test

7.1 Test Standard and Limit

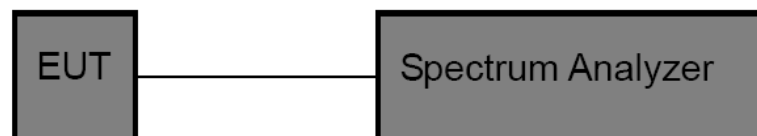
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB 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.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

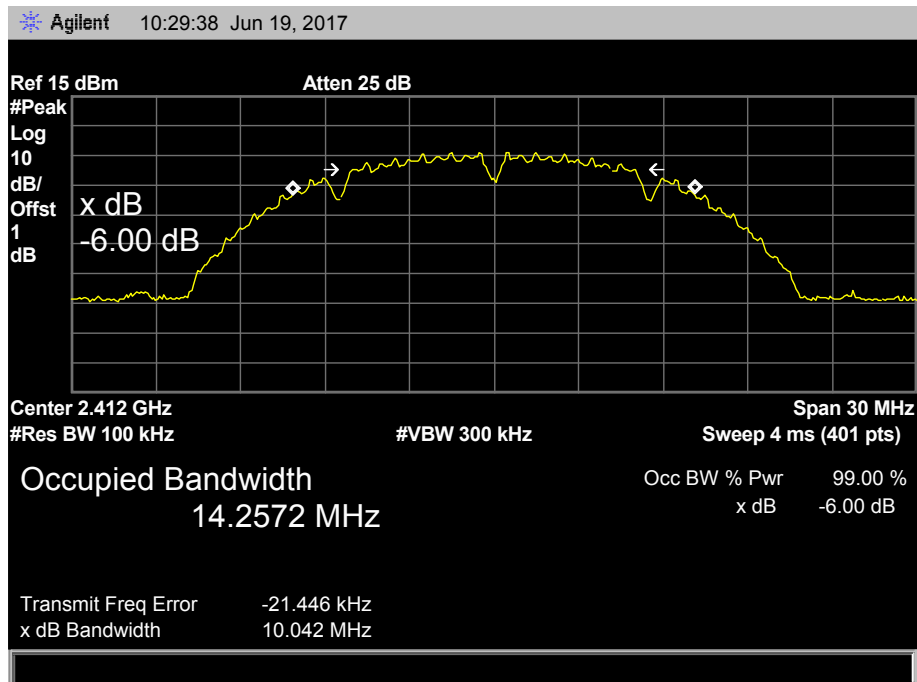
The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

7.5 Test Data

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.042	14.2572	≥0.5
2437	10.025	14.2602	
2462	10.048	14.2439	

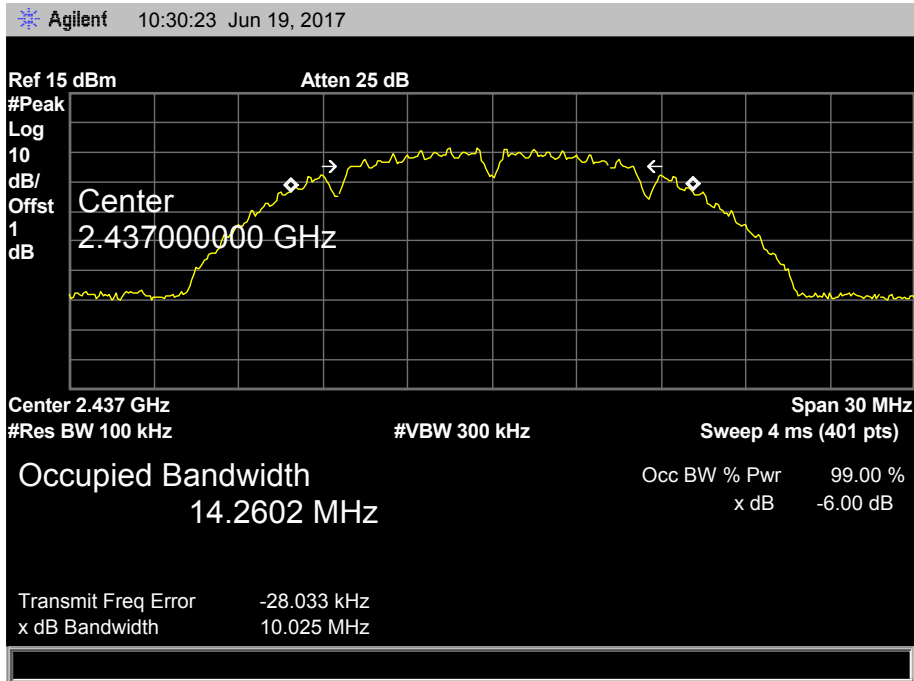
802.11B Mode

2412 MHz



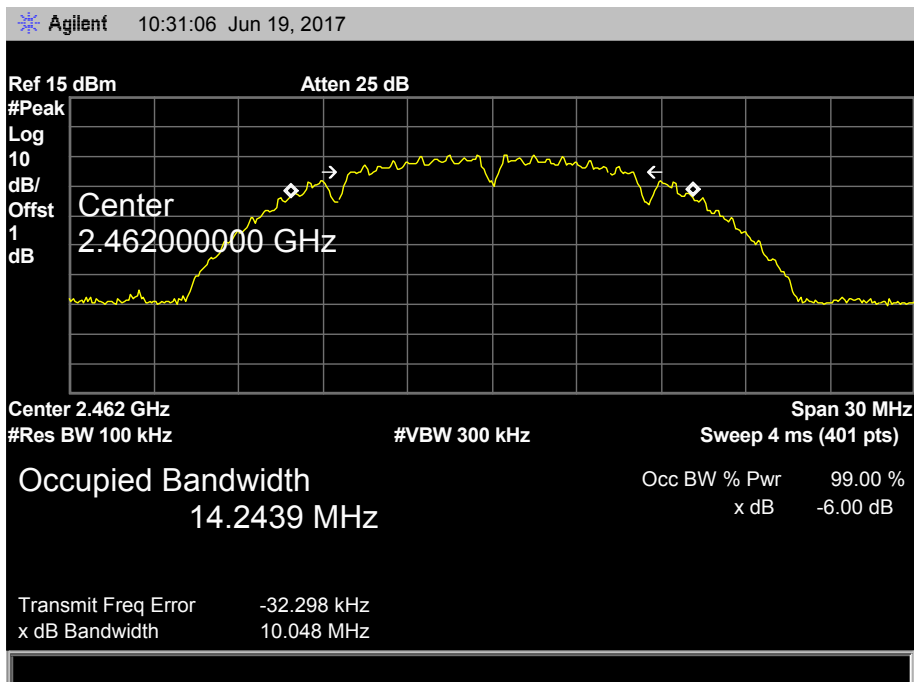
802.11B Mode

2437 MHz



802.11B Mode

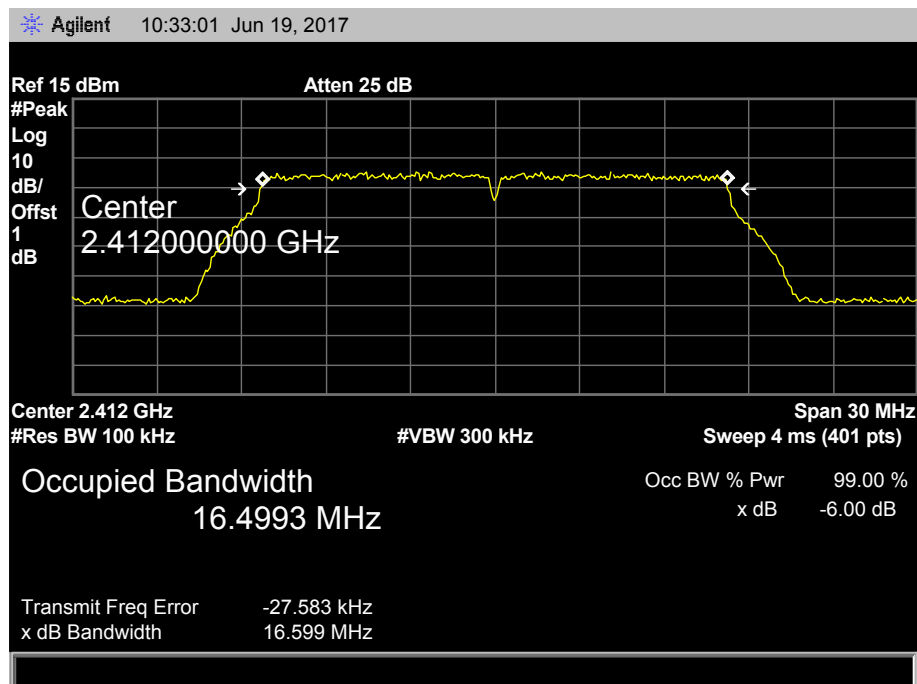
2462 MHz



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.599	16.4993	≥0.5
2437	16.589	16.4934	
2462	16.591	16.5564	

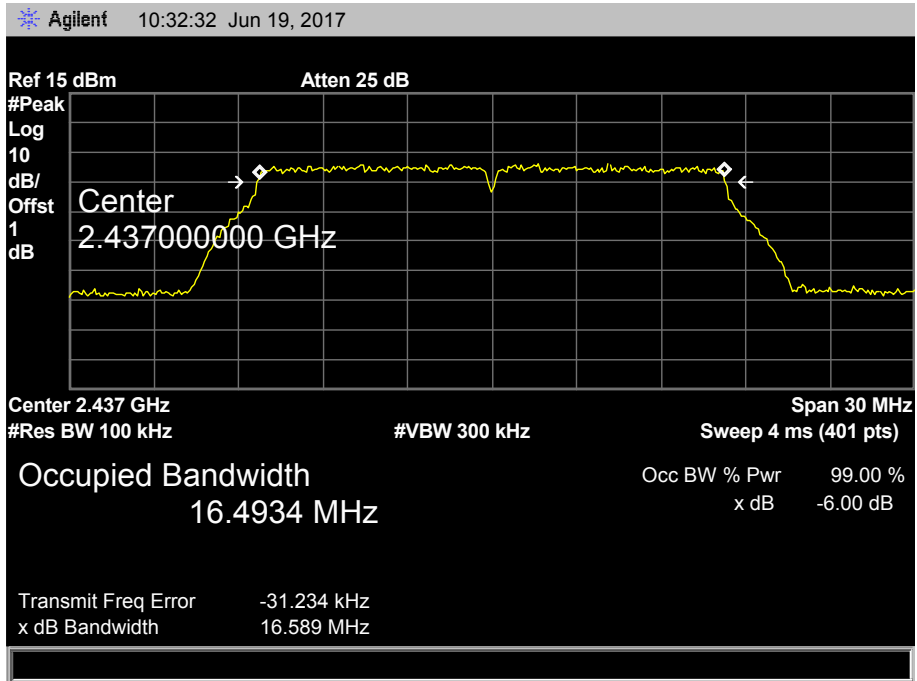
802.11G Mode

2412 MHz



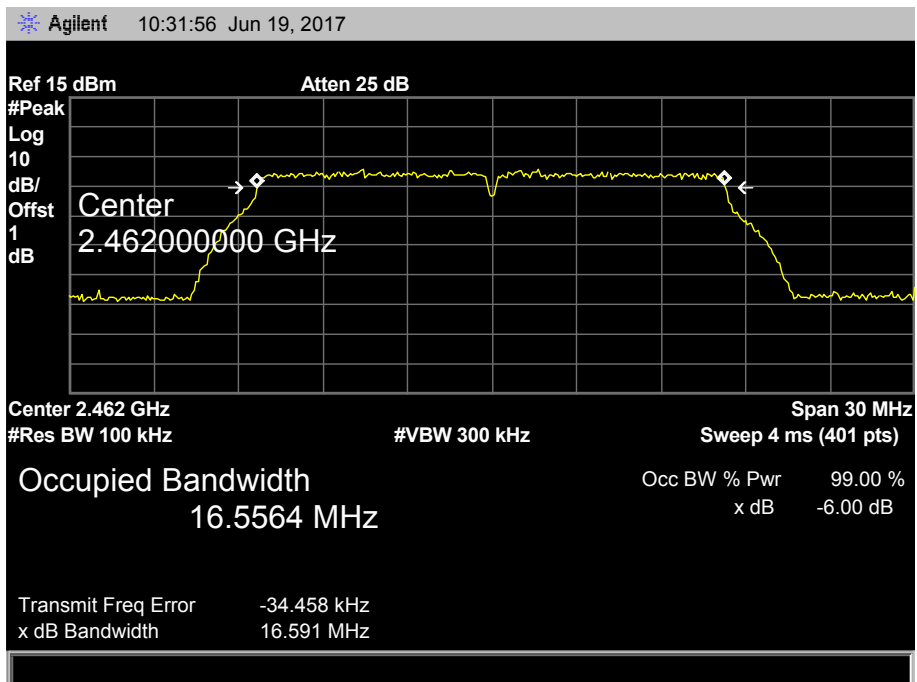
802.11G Mode

2437 MHz



802.11G Mode

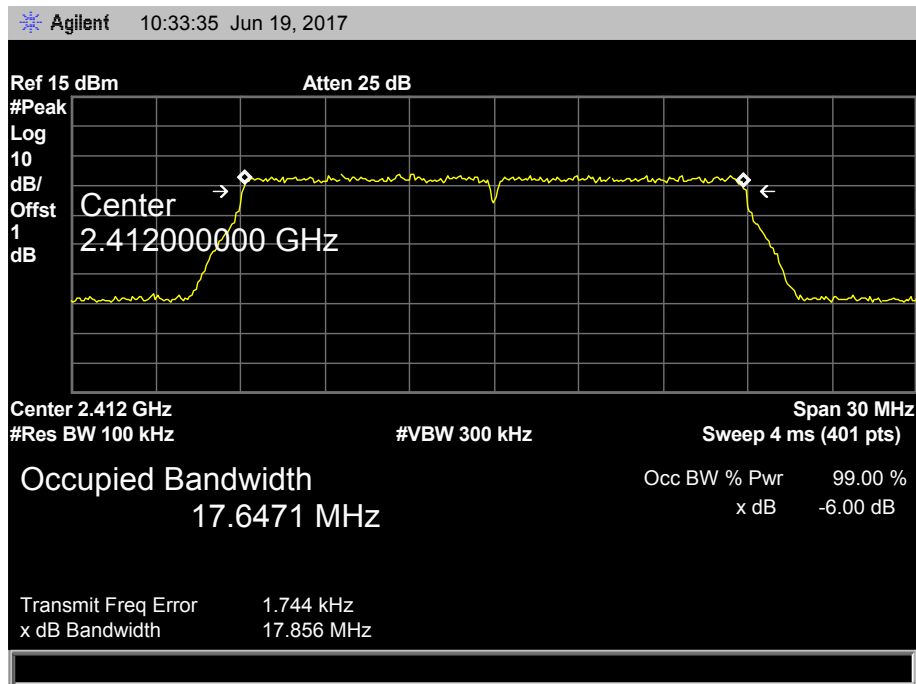
2462 MHz



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.856	17.6471	>=0.5
2437	17.859	17.6402	
2462	17.849	17.6379	

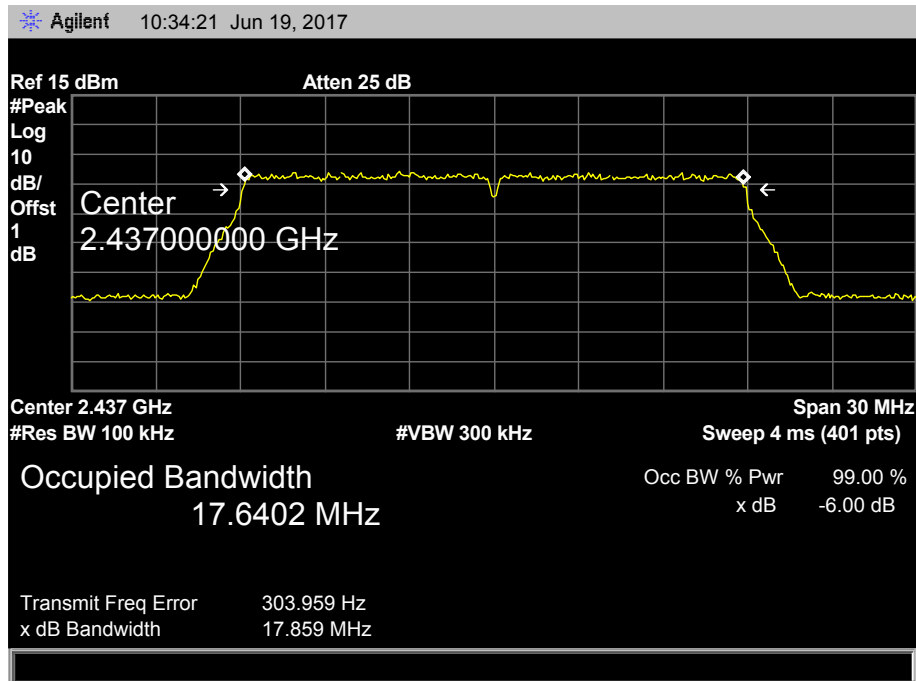
802.11N(HT20) Mode

2412 MHz



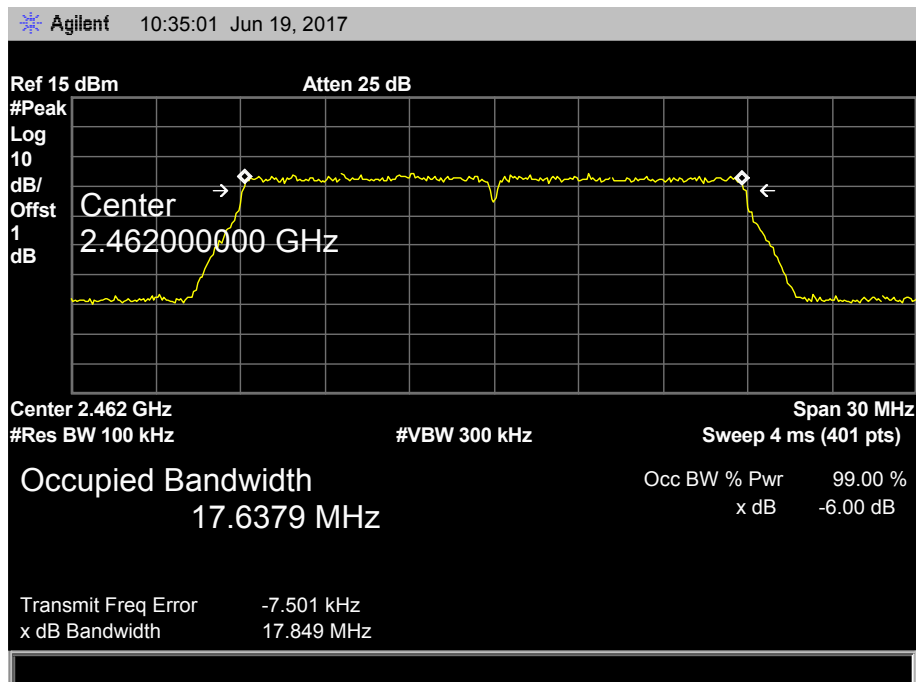
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

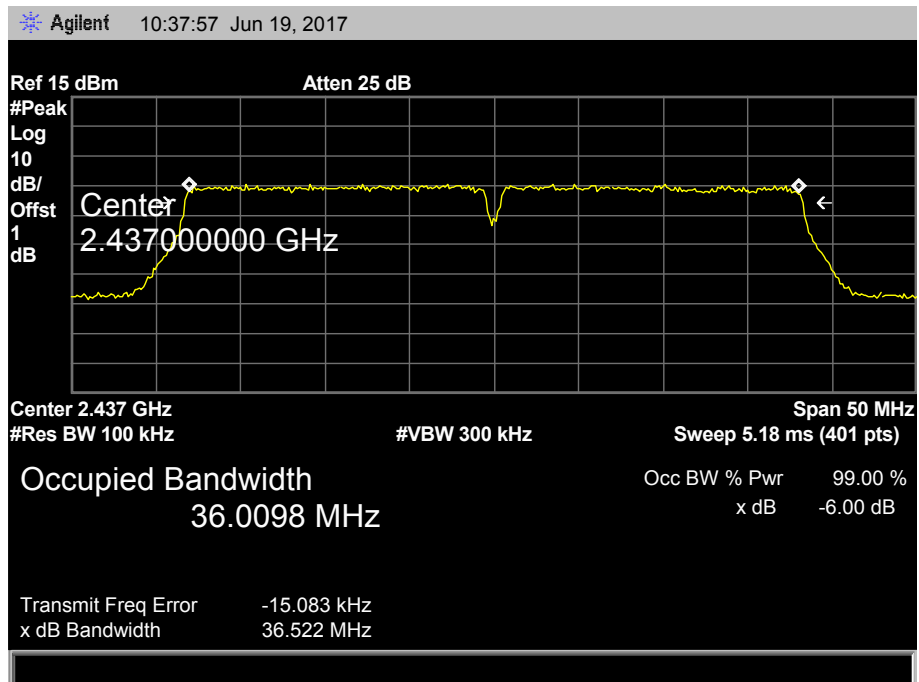
2462 MHz



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.514	36.0058	≥0.5
2437	36.522	36.0098	
2452	36.501	35.9957	
802.11N(HT40) Mode			
2422 MHz			

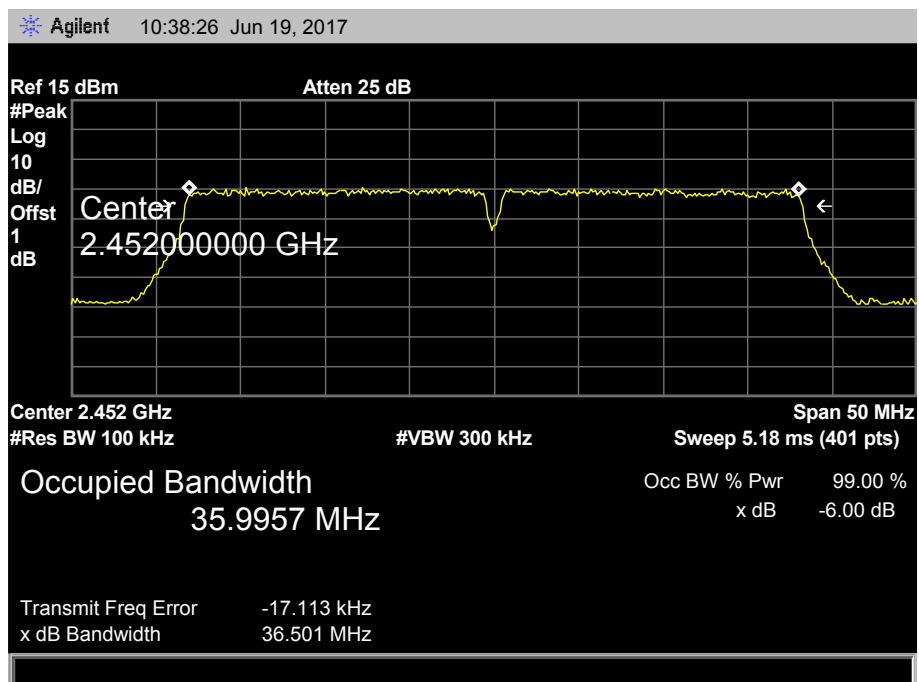
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

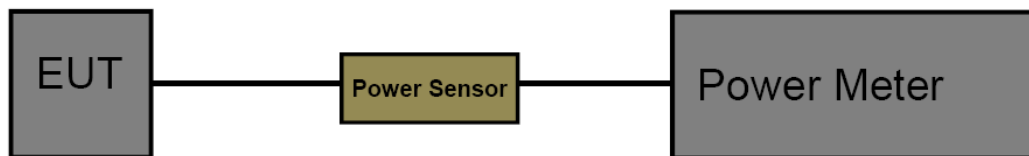
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

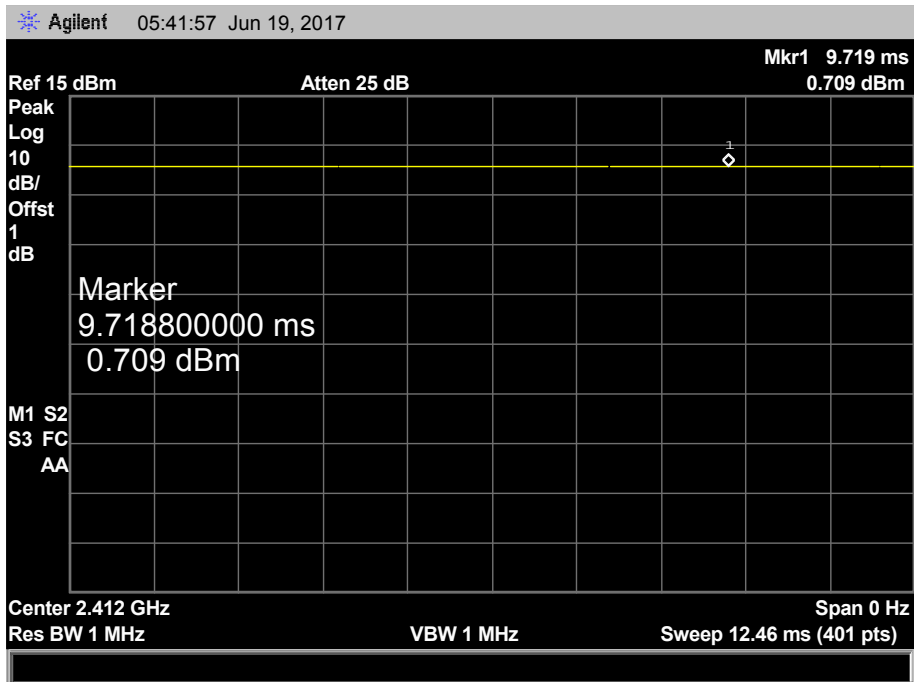
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

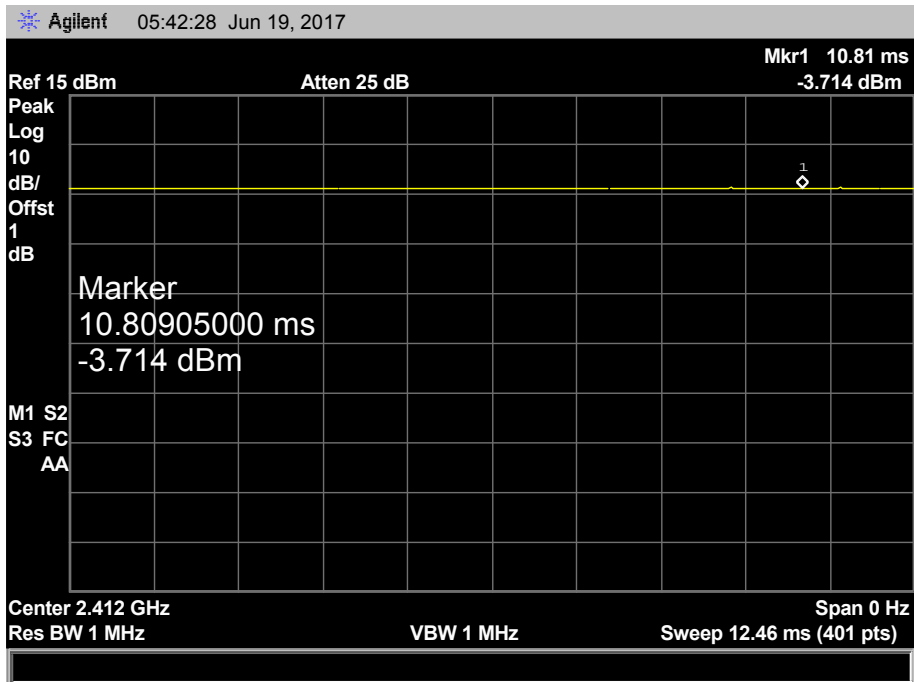
EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.76	30
	2437	9.80	
	2462	9.40	
802.11g	2412	9.16	
	2437	9.78	
	2462	9.22	
802.11n (HT20)	2412	8.52	
	2437	8.33	
	2462	8.75	
802.11n (HT40)	2422	7.78	
	2437	7.30	
	2452	7.29	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

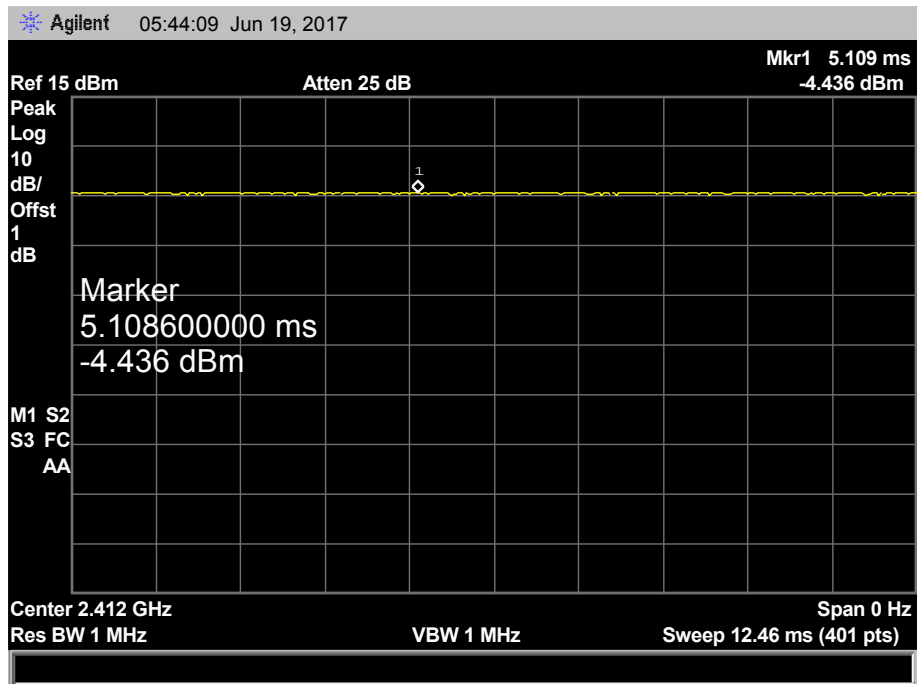
802.11 B Mode 2437 MHz



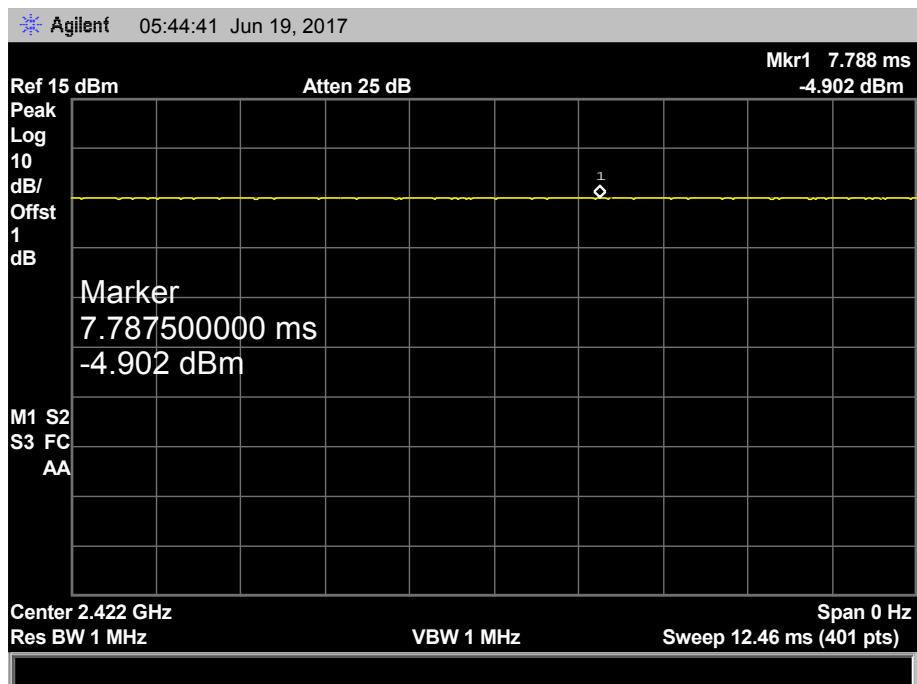
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz



9. Power Spectral Density Test

9.1 Test Standard and Limit

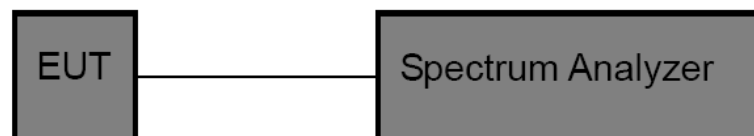
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-22.61	8	
2437	-22.45		
2462	-23.27		

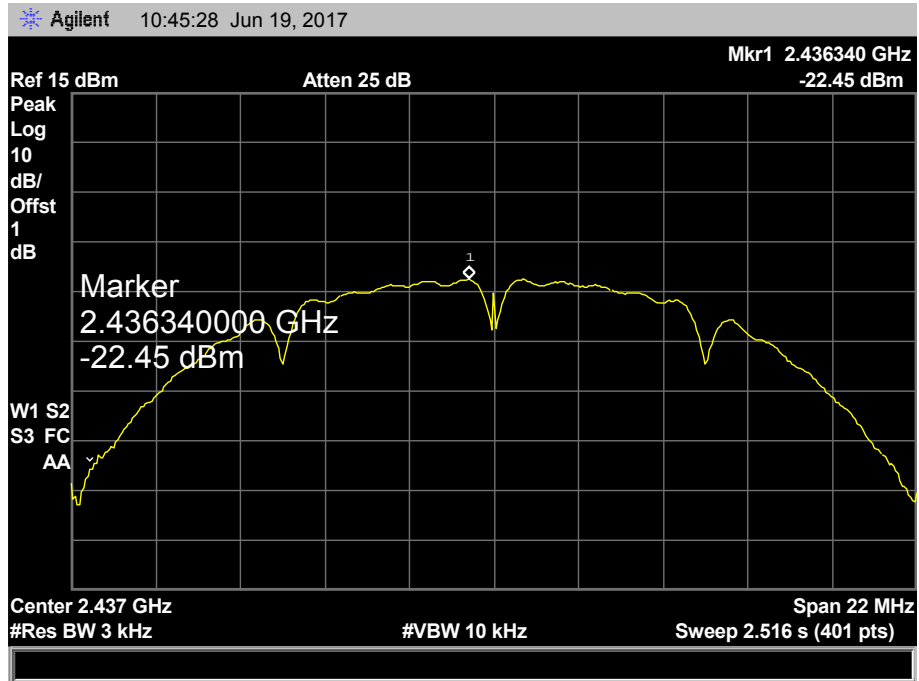
802.11B Mode

2412 MHz



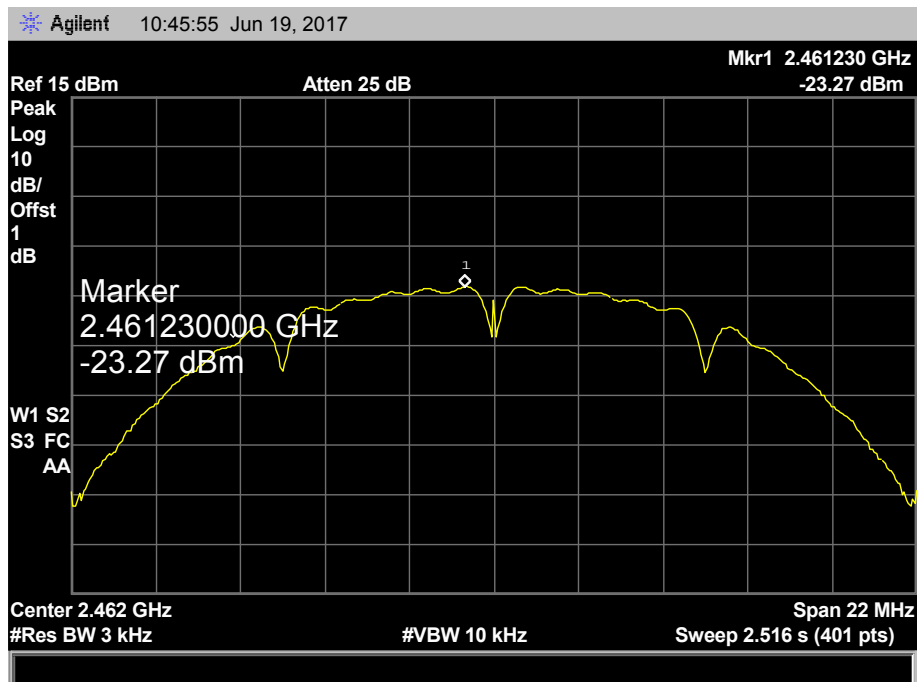
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz

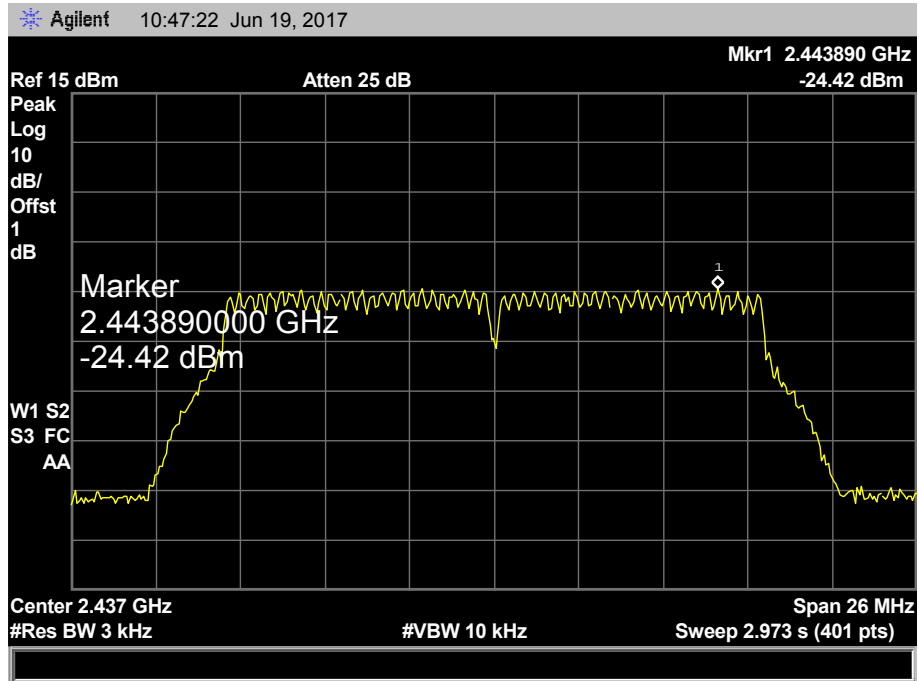


EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-24.71	8	
2437	-24.42		
2462	-23.61		
802.11G Mode			
2412 MHz			

The screenshot shows an Agilent spectrum analyzer interface. At the top, it displays 'Agilent 10:47:49 Jun 19, 2017'. The main display area shows a yellow signal trace on a grid. A marker is placed on the signal at 2.409205000 GHz, with a power density of -24.71 dBm. The settings for the plot are: Ref 15 dBm, Atten 25 dB, Peak, Log, 10 dB/Offst, 1 dB, W1 S2, S3 FC, AA. The center frequency is 2.412 GHz, the resolution bandwidth is 3 kHz, the span is 26 MHz, and the sweep time is 2.973 s (401 pts).

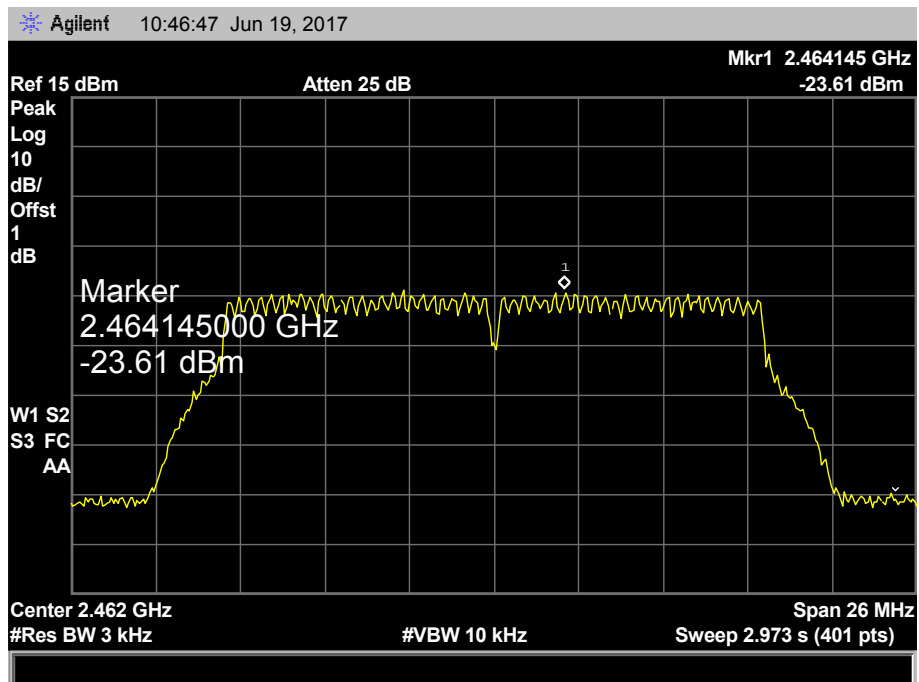
802.11G Mode

2437 MHz



802.11G Mode

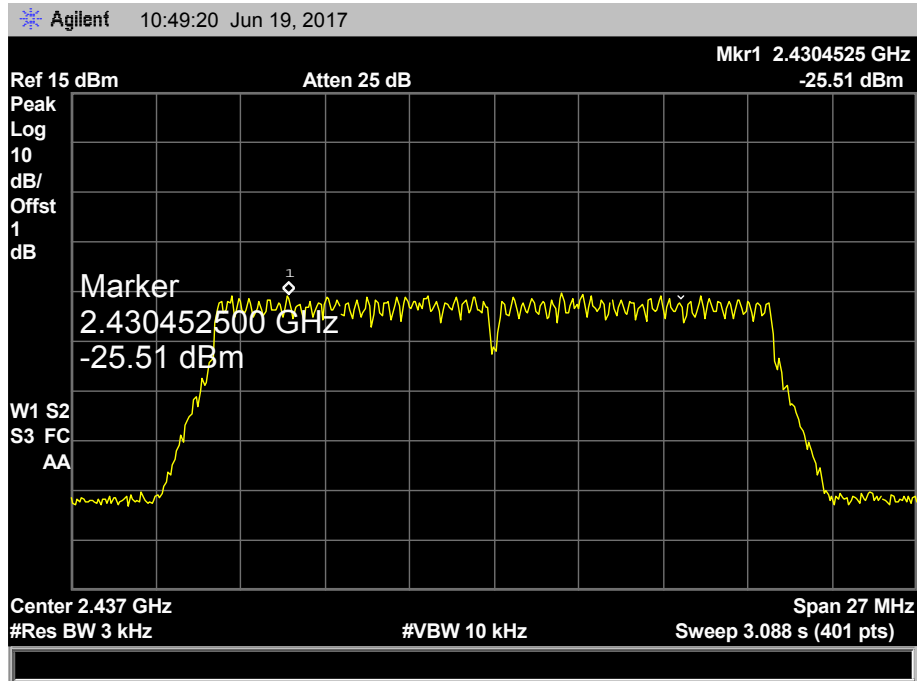
2462 MHz



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-25.37	8	
2437	-25.51		
2462	-25.90		
802.11N(HT20) Mode			
2412 MHz			
<p>Agilent 10:48:44 Jun 19, 2017</p> <p>Ref 15 dBm Atten 25 dB Mkr1 2.4185475 GHz -25.37 dBm</p> <p>Peak Log 10 dB/ Offst 1 dB</p> <p>Marker 2.418547500 GHz -25.37 dBm</p> <p>W1 S2 S3 FC AA</p> <p>Center 2.412 GHz Span 27 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 3.088 s (401 pts)</p>			

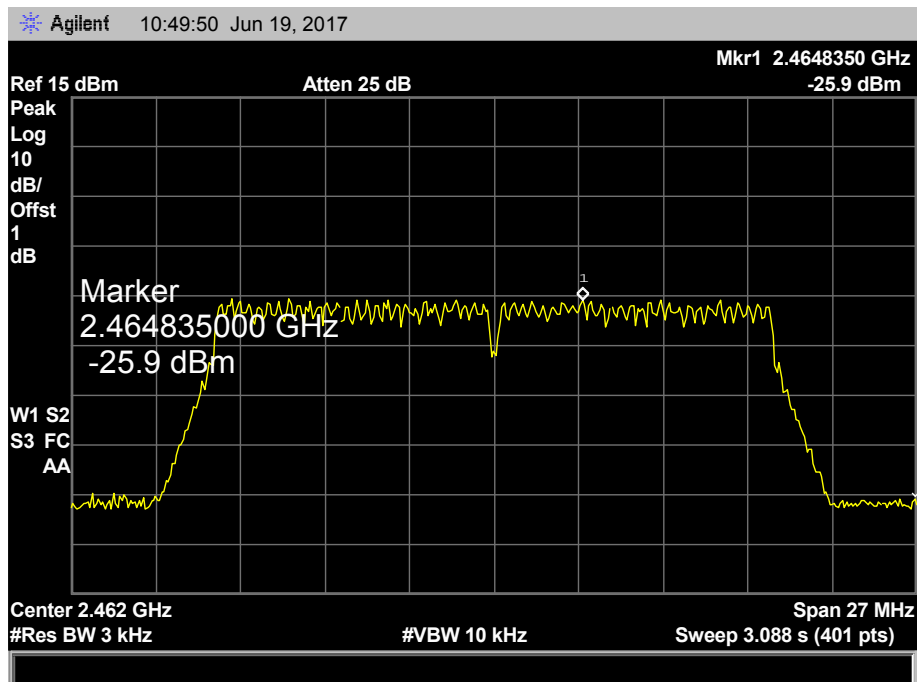
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

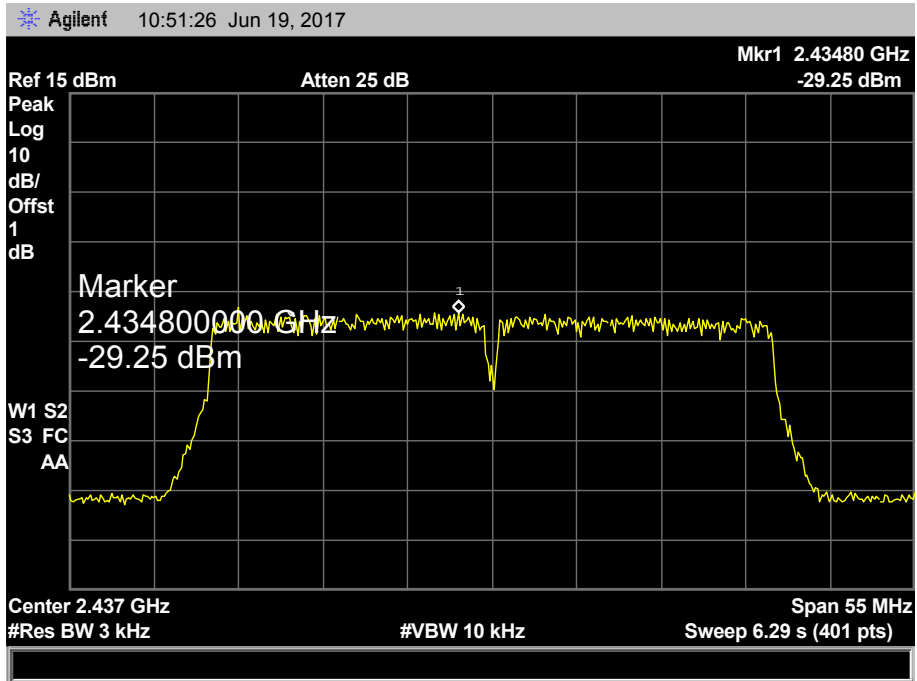
2462 MHz



EUT:	Tablet PC	Model:	SS5TAB
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2422	-28.36	8	
2437	-29.25		
2452	-28.64		
802.11N(HT40) Mode			
2422 MHz			
<p>Agilent 10:50:51 Jun 19, 2017</p> <p>Ref 15 dBm Atten 25 dB Mkr1 2.41856 GHz -28.36 dBm</p> <p>Peak Log 10 dB/Offst 1 dB</p> <p>Marker 2.418562500 GHz -28.36 dBm</p> <p>W1 S2 S3 FC AA</p> <p>Center 2.422 GHz Span 55 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 6.29 s (401 pts)</p>			

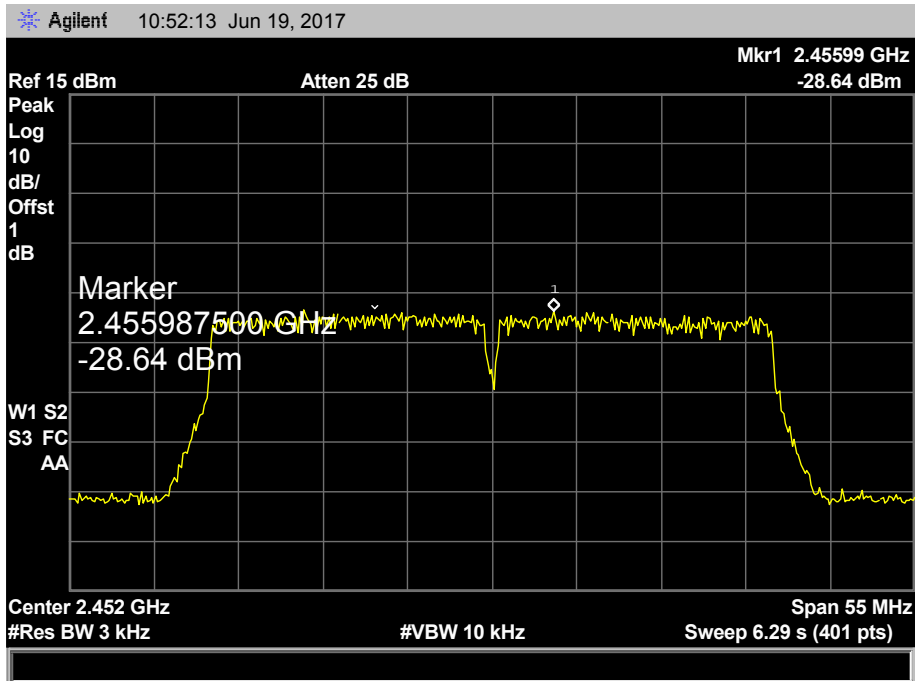
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 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.

10.2 Antenna Connected Construction

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

Result

The EUT antenna is a FPC Antenna. It complies with the standard requirement.

Antenna Type
<input type="checkbox"/> Permanent attached antenna
<input checked="" type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

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