



Test Report

Product Name	ASUS Tablet
Model No	TF810C
FCC ID.	MSQTF810CAH691

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	July 13, 2012
Issue Date	Aug. 17, 2012
Report No.	127293R-RFUSP42V01
Report Version	V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issue Date: Aug. 17, 2012

Report No.: 127293R-RFUSP42V01


Accredited by NIST (NVLAP)

NVLAP Lab Code: 200533-0

Product Name	ASUS Tablet
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	1. PEGATRON CORPORATION Taoyuan Mfg 2. Protek (Shanghai) Limited. 3. Tech-Com(Shanghai) Computer Co.Ltd. 4. Wistron InfoComm(Kunshan) Co., Ltd.
Model No.	TF810C
FCC ID.	MSQTF810CAH691
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2010 ANSI C63.4: 2003
Test Result	Complied

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ASUS Tablet
Trade Name	ASUS
Model No.	TF810C
FCC ID.	MSQTF810CAH691
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz,802.11n-40MHz:2422-2452MHz 802.11a/n-20MHz:5745-5825MHz ,802.11n-40MHz:5755-5795MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7 802.11a/n-20MHz: 5, n-40MHz: 2
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20MHz: 20MHz 802.11n-40MHz: 40MHz
Type of Modulation	802.11b:DSSS DBPSK, DQPSK, CCK 802.11a/g/n: OFDM BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
USB Cable	Non-Shielded, 1.5m
Power Adapter	MFR: DELTA, M/N: ADP18BW A Input: 100-240V~0.5A, 50-60Hz Output: 15V $\overline{=}$ 1.2A or 5V $\overline{=}$ 2A
Contain Module	Azurewave / AW-AH691

Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	INPAQ	WA-P-LBLB-04-002 (Main) WA-P-LBLB-04-002 (Aux)	PIFA	2.83 dBi for 2.4 GHz 2.38 dBi for 5.725~5.850 GHz

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

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

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 149:	5745 MHz	Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz
Channel 165:	5825 MHz						

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 3:	2422 MHz	Channel 4:	2427 MHz	Channel 5:	2432 MHz	Channel 6:	2437 MHz
Channel 7:	2442 MHz	Channel 8:	2447 MHz	Channel 9:	2452 MHz		

802.11n-40MHz (5G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 151:	5755 MHz	Channel 159:	5795 MHz

Note:

1. This device is an ASUS Tablet, Contains functions and so on WiFi 、Bluetooth 、NFC 、GPS , This report for WiFi.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps 、802.11g is 6Mbps 、802.11n(20M-BW) is 14.4Mbps and 、802.11n(40M-BW) is 30Mbps).
4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11b is chain B 、802.11g is chain B 、802.11a is chain A 、802.11n is chain A+ chain B)
5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11a/b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:	Mode 1: Transmit - 802.11b 1Mbps
	Mode 2: Transmit - 802.11g 6Mbps
	Mode 3: Transmit - 802.11a 6Mbps
	Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)
	Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)
	Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

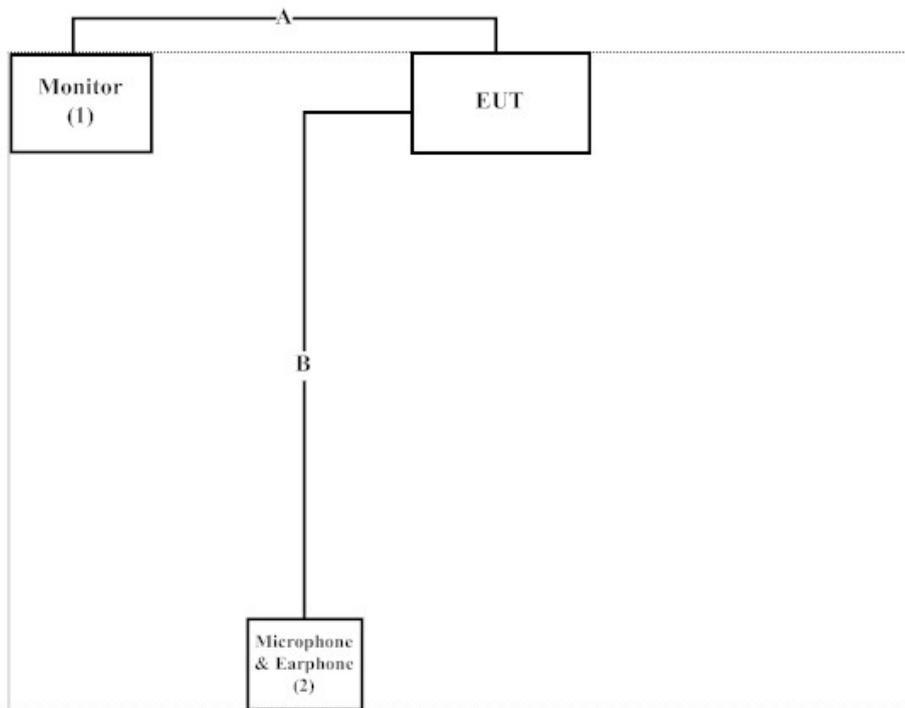
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) Monitor	DELL	U2410f	CN-082WXD-72872-23E-AD5L	Non-Shielded, 1.8m
(2) Microphone & Earphone	PCHOME	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A HDMI Cable	Shielded, 1.7m
B Microphone & Earphone Cable	Non-Shielded, 2.0m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute program on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

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E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

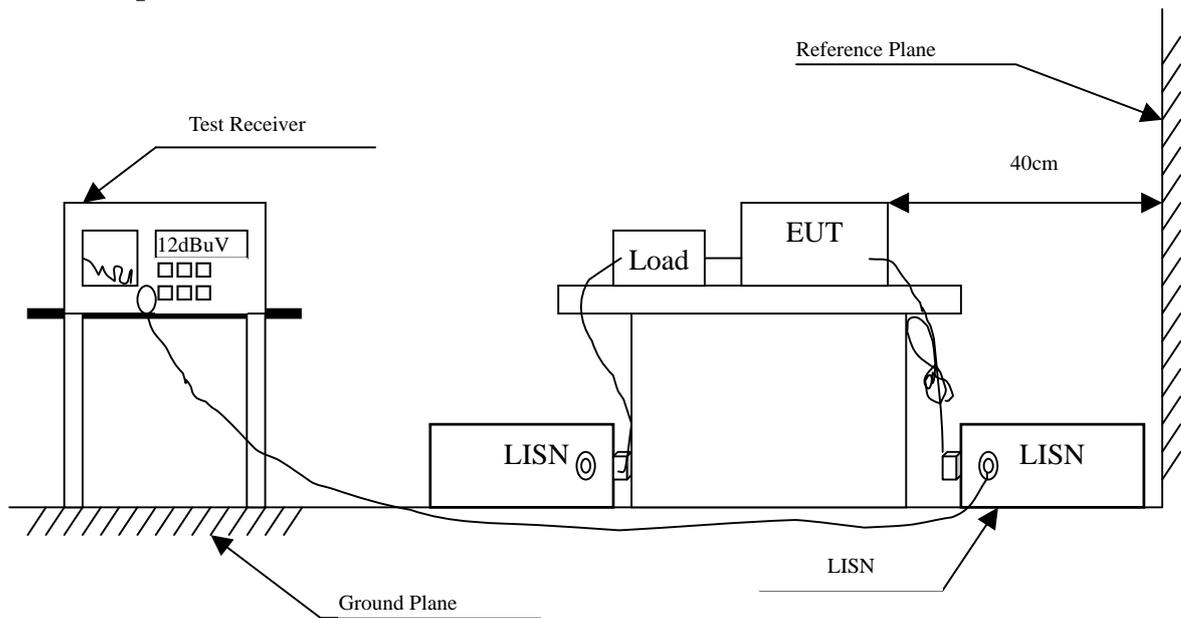
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2011	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2012	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2012	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2012	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2012	
No.1 Shielded Room					

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : ASUS Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.193	9.691	38.470	48.161	-16.610	64.771
0.291	9.643	29.860	39.503	-22.468	61.971
0.377	9.640	30.180	39.820	-19.694	59.514
0.697	9.640	23.920	33.560	-22.440	56.000
1.459	9.670	19.550	29.220	-26.780	56.000
6.322	9.720	29.770	39.490	-20.510	60.000
Average					
0.193	9.691	28.500	38.191	-16.580	54.771
0.291	9.643	20.250	29.893	-22.078	51.971
0.377	9.640	22.390	32.030	-17.484	49.514
0.697	9.640	15.360	25.000	-21.000	46.000
1.459	9.670	11.410	21.080	-24.920	46.000
6.322	9.720	15.240	24.960	-25.040	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.373	9.650	31.400	41.050	-18.579	59.629
0.513	9.650	26.240	35.890	-20.110	56.000
1.041	9.690	26.520	36.210	-19.790	56.000
1.556	9.700	23.710	33.410	-22.590	56.000
5.045	9.710	23.400	33.110	-26.890	60.000
13.560	9.940	26.920	36.860	-23.140	60.000
Average					
0.373	9.650	22.700	32.350	-17.279	49.629
0.513	9.650	10.600	20.250	-25.750	46.000
1.041	9.690	15.620	25.310	-20.690	46.000
1.556	9.700	13.690	23.390	-22.610	46.000
5.045	9.710	12.040	21.750	-28.250	50.000
13.560	9.940	19.650	29.590	-20.410	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.201	9.686	36.890	46.576	-17.967	64.543
0.306	9.640	29.040	38.680	-22.863	61.543
0.377	9.640	29.580	39.220	-20.294	59.514
0.537	9.640	18.180	27.820	-28.180	56.000
1.025	9.670	21.750	31.420	-24.580	56.000
6.318	9.720	28.130	37.850	-22.150	60.000
Average					
0.201	9.686	21.550	31.236	-23.307	54.543
0.306	9.640	14.790	24.430	-27.113	51.543
0.377	9.640	22.360	32.000	-17.514	49.514
0.537	9.640	7.160	16.800	-29.200	46.000
1.025	9.670	14.680	24.350	-21.650	46.000
6.318	9.720	11.980	21.700	-28.300	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.189	9.694	29.870	39.564	-25.322	64.886
0.306	9.649	26.550	36.199	-25.344	61.543
0.388	9.650	30.740	40.390	-18.810	59.200
0.677	9.650	26.000	35.650	-20.350	56.000
1.357	9.690	20.580	30.270	-25.730	56.000
6.146	9.750	24.160	33.910	-26.090	60.000
Average					
0.189	9.694	21.780	31.474	-23.412	54.886
0.306	9.649	12.910	22.559	-28.984	51.543
0.388	9.650	22.270	31.920	-17.280	49.200
0.677	9.650	19.390	29.040	-16.960	46.000
1.357	9.690	9.740	19.430	-26.570	46.000
6.146	9.750	11.790	21.540	-28.460	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

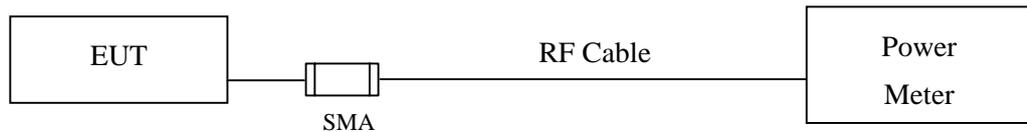
3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2012
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2012

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power 1	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	12.3	--	--	--	16.22	<30dBm	Pass
06	2437	12.58	12.33	12.12	11.92	16.44	<30dBm	Pass
11	2462	12.5	--	--	--	16.36	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power 1	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	13.11	--	--	--	17.12	<30dBm	Pass
06	2437	12.92	12.67	12.37	12.11	16.94	<30dBm	Pass
11	2462	12.8	--	--	--	16.84	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power 6	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	12.27	--	--	--	--	--	--	--	20.96	<30dBm	Pass
06	2437	12.18	12.04	11.86	11.68	11.57	11.37	11.25	11.13	20.53	<30dBm	Pass
11	2462	12.19	--	--	--	--	--	--	--	20.44	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power 6	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	12.83	--	--	--	--	--	--	--	21.98	<30dBm	Pass
06	2437	12.78	12.61	12.46	12.37	12.28	12.11	11.99	11.87	21.7	<30dBm	Pass
11	2462	12.64	--	--	--	--	--	--	--	21.47	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
149	5745	9.96	--	--	--	--	--	--	--	19	<30dBm	Pass
157	5785	9.89	9.77	9.68	9.56	9.44	9.21	8.96	8.88	18.88	<30dBm	Pass
165	5825	9.75	--	--	--	--	--	--	--	18.73	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
149	5745	7.11	--	--	--	--	--	--	--	16.61	<30dBm	Pass
157	5785	7.47	7.34	7.21	7.11	6.94	6.83	6.62	6.49	17.03	<30dBm	Pass
165	5825	7.63	--	--	--	--	--	--	--	17.21	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	11.36	--	--	--	--	--	--	--	20.91
06	2437	11.31	11.08	10.81	10.52	10.33	10.02	9.78	9.55	20.53
11	2462	11.21	--	--	--	--	--	--	--	20.54

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	11.78	--	--	--	--	--	--	--	21.47
06	2437	11.69	11.42	11.15	10.97	10.78	10.58	10.26	10.01	21.03
11	2462	11.36	--	--	--	--	--	--	--	20.8

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	HT8	20.91	21.47	24.21	<30dBm	Pass
6	2437	HT8	20.53	21.03	23.80	<30dBm	Pass
11	2462	HT8	20.54	20.80	23.68	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
03	2422	9.93	--	--	--	--	--	--	--	20.04
06	2437	10.03	9.77	9.39	8.98	8.67	8.34	8.04	7.81	19.93
09	2452	9.67	--	--	--	--	--	--	--	19.54

Note: Peak Power Output Value = Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
03	2422	10.03	--	--	--	--	--	--	--	20.07
06	2437	9.88	9.51	9.23	8.88	8.51	8.24	7.95	7.65	17.94
09	2452	9.78	--	--	--	--	--	--	--	19.61

Note: Peak Power Output Value = Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	HT8	20.04	20.07	23.07	<30dBm	Pass
6	2437	HT8	19.93	17.94	22.06	<30dBm	Pass
9	2452	HT8	19.54	19.61	22.59	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
Measurement Level (dBm)										
149	5745	9.06	--	--	--	--	--	--	--	18.79
157	5785	8.81	8.66	8.43	8.12	7.95	7.73	7.32	7.06	18.55
165	5825	6.22	--	--	--	--	--	--	--	18.48

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
Measurement Level (dBm)										
149	5745	5.89	--	--	--	--	--	--	--	15.82
157	5785	6.22	6.06	5.84	5.53	5.36	5.14	4.73	4.57	16.18
165	5825	6.41	--	--	--	--	--	--	--	16.51

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
149	5745	HT8	18.79	15.82	20.56	<30dBm	Pass
157	5785	HT8	18.55	16.18	20.54	<30dBm	Pass
165	5825	HT8	18.48	16.51	20.62	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : ASUS Tablet
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
151	5755	7.31	--	--	--	--	--	--	--	17.38
159	5795	7.31	7.05	6.71	6.52	6.21	5.82	5.37	5.09	17.41

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
151	5755	4.35	--	--	--	--	--	--	--	14.53
159	5795	4.52	4.26	3.92	3.73	3.42	3.03	2.58	2.41	14.61

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
151	5755	HT8	17.38	14.53	19.20	<30dBm	Pass
159	5795	HT8	17.41	14.61	19.24	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

4. Radiated Emission

4.1. Test Equipment

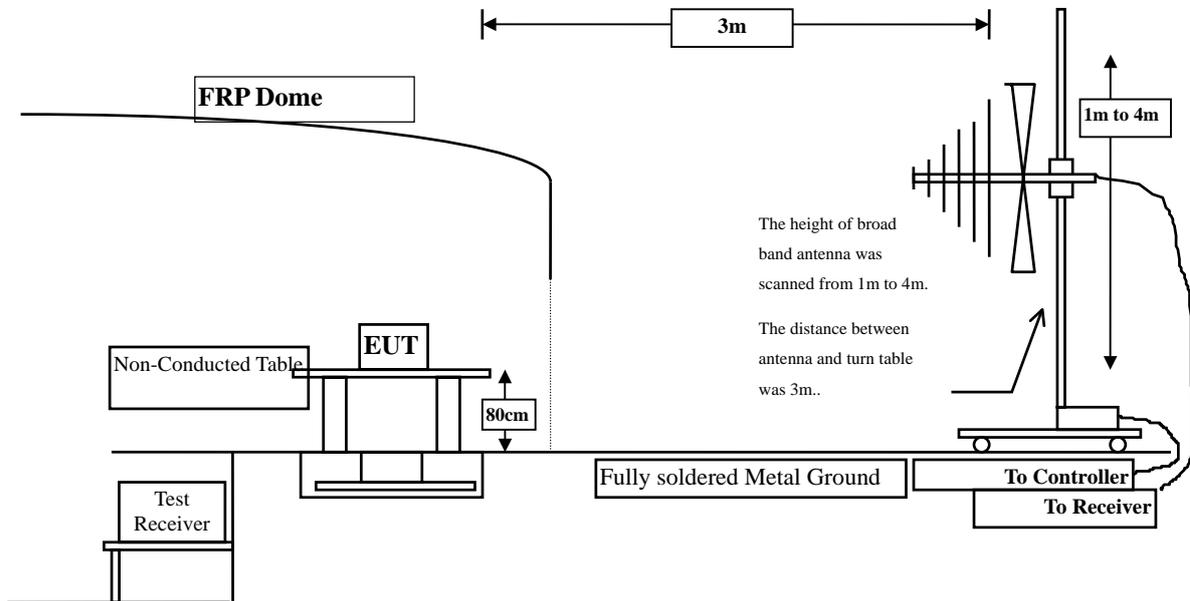
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2011
	X	Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2012
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2012
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

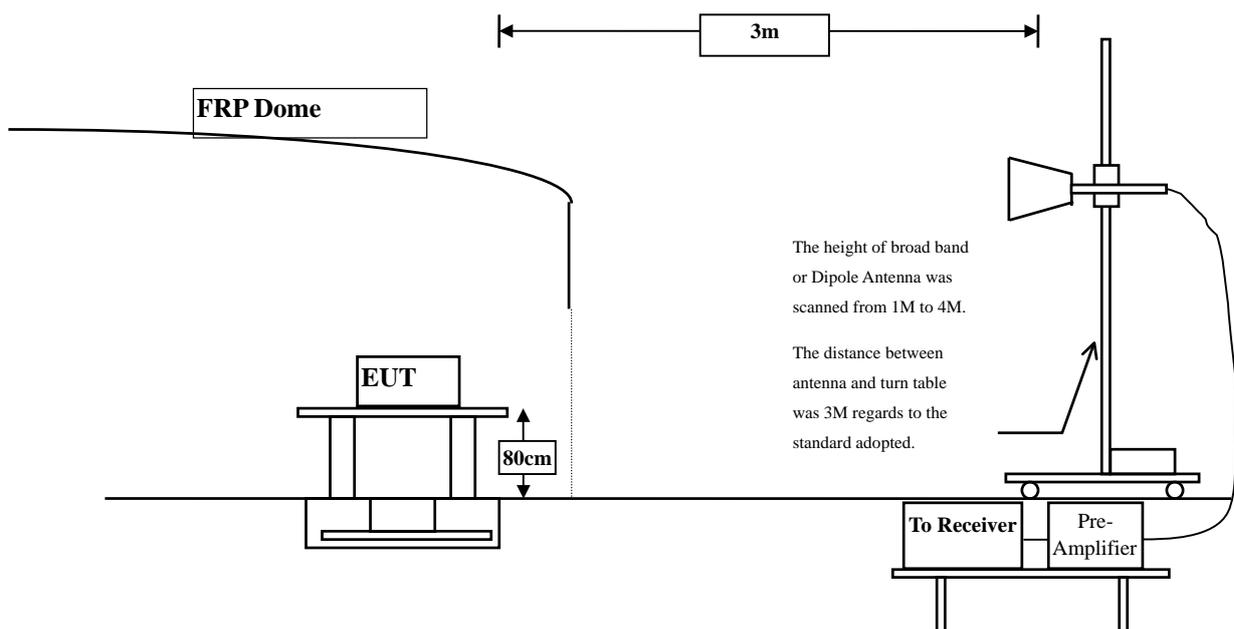
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 30MHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2816.000	2.632	55.430	58.062	-15.938	74.000
4824.000	3.261	44.420	47.681	-26.319	74.000
7236.000	10.650	36.870	47.520	-26.480	74.000
9648.000	13.337	37.450	50.786	-23.214	74.000
Average					
Detector:					
2816.000	2.632	50.730	53.362	-0.638	54.000
Vertical					
Peak Detector:					
2816.000	2.448	53.040	55.488	-18.512	74.000
4824.000	6.421	45.460	51.881	-22.119	74.000
7236.000	11.495	37.280	48.775	-25.225	74.000
9648.000	13.807	36.330	50.136	-23.864	74.000
Average					
Detector:					
2816.000	2.448	48.100	50.548	-3.452	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2843.000	2.367	54.800	57.168	-16.832	74.000
4874.000	3.038	43.830	46.867	-27.133	74.000
7311.000	11.795	35.990	47.784	-26.216	74.000
9748.000	12.635	37.520	50.155	-23.845	74.000
Average					
Detector:					
2843.000	2.367	49.550	51.918	-2.082	54.000
Vertical					
Peak Detector:					
2843.000	2.218	51.720	53.938	-20.062	74.000
4874.000	5.812	45.970	51.781	-22.219	74.000
7311.000	12.630	36.050	48.679	-25.321	74.000
9748.000	13.126	36.780	49.906	-24.094	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2874.000	2.063	53.800	55.863	-18.137	74.000
4924.000	2.858	45.250	48.107	-25.893	74.000
7386.000	12.127	35.390	47.518	-26.482	74.000
9848.000	12.852	36.620	49.473	-24.527	74.000
Average Detector:					
2874.000	2.063	48.680	50.743	-3.257	54.000
Vertical					
Peak Detector:					
2874.000	1.951	52.350	54.301	-19.699	74.000
4924.000	5.521	46.920	52.440	-21.560	74.000
7386.000	13.254	36.210	49.464	-24.536	74.000
9848.000	13.367	36.320	49.687	-24.313	74.000
Average Detector:					
2874.000	1.951	47.160	49.111	-4.889	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2814.000	2.653	58.260	60.912	-13.088	74.000
4824.000	3.261	42.840	46.101	-27.899	74.000
7236.000	10.650	36.340	46.990	-27.010	74.000
9648.000	13.337	37.580	50.916	-23.084	74.000
Average Detector:					
2814.000	2.653	46.500	49.152	-4.848	54.000
Vertical					
Peak Detector:					
2814.000	2.467	54.700	57.166	-16.834	74.000
4824.000	6.421	43.080	49.501	-24.499	74.000
7236.000	11.495	36.890	48.385	-25.615	74.000
9648.000	13.807	36.970	50.776	-23.224	74.000
Average Detector:					
2814.000	2.467	42.530	44.996	-9.004	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2843.000	2.367	58.850	61.218	-12.782	74.000
4874.000	3.038	44.590	47.627	-26.373	74.000
7311.000	11.795	38.430	50.224	-23.776	74.000
9748.000	12.635	36.280	48.915	-25.085	74.000
Average Detector:					
2843.000	2.367	45.840	48.208	-5.792	54.000
Vertical					
Peak Detector:					
2843.000	2.218	54.630	56.848	-17.152	74.000
4874.000	5.812	43.120	48.931	-25.069	74.000
7311.000	12.630	37.230	49.859	-24.141	74.000
9748.000	13.126	37.220	50.346	-23.654	74.000
Average Detector:					
2843.000	2.218	42.560	44.778	-9.222	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2872.000	2.083	57.110	59.192	-14.808	74.000
4924.000	2.858	45.580	48.437	-25.563	74.000
7386.000	12.127	35.740	47.868	-26.132	74.000
9848.000	12.852	36.560	49.413	-24.587	74.000
Average Detector:					
2872.000	2.083	45.220	47.302	-6.698	54.000
Vertical					
Peak Detector:					
2872.000	1.969	52.970	54.938	-19.062	74.000
4924.000	5.521	45.460	50.980	-23.020	74.000
7386.000	13.254	36.700	49.954	-24.046	74.000
9848.000	13.367	36.760	50.127	-23.873	74.000
Average Detector:					
2872.000	1.969	41.470	43.438	-10.562	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5745 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5319.800	3.813	55.710	59.523	-14.477	74.000
6170.600	5.683	58.200	63.882	-10.118	74.000
11490.000	17.196	35.080	52.277	-21.723	74.000
Average Detector:					
5319.800	3.813	43.420	47.233	-6.767	54.000
6170.600	5.683	45.830	51.512	-2.488	54.000
Vertical					
Peak Detector:					
5319.400	5.730	55.750	61.480	-12.520	74.000
6170.600	7.450	55.870	63.320	-10.680	74.000
11490.000	18.124	35.560	53.685	-20.315	74.000
Average Detector:					
5319.400	5.730	43.300	49.030	-4.970	54.000
6170.600	7.450	43.390	50.840	-3.160	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5356.600	3.694	55.160	58.855	-15.145	74.000
6213.600	5.630	58.090	63.720	-10.280	74.000
11570.000	16.899	35.040	51.939	-22.061	74.000
Average Detector:					
5356.600	3.694	43.120	46.815	-7.185	54.000
6213.600	5.630	45.910	51.540	-2.460	54.000
Vertical					
Peak Detector:					
5356.600	5.682	54.480	60.162	-13.838	74.000
6213.600	7.646	56.370	64.016	-9.984	74.000
11570.000	17.788	34.900	52.688	-21.312	74.000
Average Detector:					
5356.600	5.682	42.780	48.462	-5.538	54.000
6213.600	7.646	44.280	51.926	-2.074	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5825 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5393.600	3.598	55.440	59.037	-14.963	74.000
6256.600	5.821	58.170	63.991	-10.009	74.000
11650.000	16.325	34.250	50.576	-23.424	74.000
Average Detector:					
5393.600	3.598	43.390	46.987	-7.013	54.000
6256.600	5.821	45.940	51.761	-2.239	54.000
Vertical					
Peak Detector:					
5393.600	5.645	55.060	60.704	-13.296	74.000
6256.600	7.575	55.350	62.925	-11.075	74.000
11650.000	17.441	34.790	52.232	-21.768	74.000
Average Detector:					
5393.600	5.645	43.000	48.644	-5.356	54.000
6256.600	7.575	43.430	51.005	-2.995	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2814.000	2.653	58.000	60.652	-13.348	74.000
4824.000	3.261	48.520	51.781	-22.219	74.000
7236.000	10.650	36.660	47.310	-26.690	74.000
9648.000	13.337	36.790	50.126	-23.874	74.000
Average					
Detector:					
2814.000	2.653	45.970	48.622	-5.378	54.000
Vertical					
Peak Detector:					
2814.000	2.467	55.770	58.236	-15.764	74.000
4824.000	6.421	44.190	50.611	-23.389	74.000
7236.000	11.495	36.770	48.265	-25.735	74.000
9648.000	13.807	36.560	50.366	-23.634	74.000
Average					
Detector:					
2814.000	2.467	43.750	46.216	-7.784	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2842.000	2.378	55.940	58.317	-15.683	74.000
4874.000	3.038	48.560	51.597	-22.403	74.000
7311.000	11.795	36.110	47.904	-26.096	74.000
9748.000	12.635	36.730	49.365	-24.635	74.000
Average Detector:					
2842.000	2.378	43.430	45.807	-8.193	54.000
Vertical					
Peak Detector:					
2842.000	2.227	54.400	56.627	-17.373	74.000
4874.000	5.812	45.430	51.241	-22.759	74.000
7311.000	12.630	35.540	48.169	-25.831	74.000
9748.000	13.126	36.830	49.956	-24.044	74.000
Average Detector:					
2842.000	2.227	42.740	44.967	-9.033	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2872.000	2.083	53.610	55.692	-18.308	74.000
4924.000	2.858	49.180	52.037	-21.963	74.000
7386.000	12.127	36.460	48.588	-25.412	74.000
9848.000	12.852	37.700	50.553	-23.447	74.000
Average Detector:					
2872.000	2.083	41.660	43.742	-10.258	54.000
Vertical					
Peak Detector:					
2874.000	1.951	50.820	52.771	-21.229	74.000
4924.000	5.521	45.480	51.000	-23.000	74.000
7386.000	13.254	36.340	49.594	-24.406	74.000
9848.000	13.367	37.830	51.197	-22.803	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2825.000	2.545	51.710	54.254	-19.746	74.000
4844.000	3.171	44.490	47.661	-26.339	74.000
7266.000	11.162	36.600	47.762	-26.238	74.000
9688.000	12.964	37.010	49.975	-24.025	74.000
Average Detector:					
2825.000	2.545	34.300	36.844	-17.156	54.000
Vertical					
Peak Detector:					
2825.000	2.372	48.910	51.281	-22.719	74.000
4844.000	6.178	43.650	49.828	-24.172	74.000
7266.000	11.982	36.800	48.782	-25.218	74.000
9688.000	13.507	37.470	50.978	-23.022	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2843.000	2.367	50.400	52.768	-21.232	74.000
4874.000	3.038	44.110	47.147	-26.853	74.000
7311.000	11.795	36.330	48.124	-25.876	74.000
9748.000	12.635	37.670	50.305	-23.695	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
2843.000	2.218	49.640	51.858	-22.142	74.000
4874.000	5.812	43.600	49.411	-24.589	74.000
7311.000	12.630	36.320	48.949	-25.051	74.000
9748.000	13.126	37.310	50.436	-23.564	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
2860.000	2.200	47.480	49.680	-24.320	74.000
4904.000	2.914	43.880	46.795	-27.205	74.000
7356.000	11.995	36.330	48.324	-25.676	74.000
9808.000	12.475	36.850	49.325	-24.675	74.000
Average Detector:					
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Vertical					
Peak Detector:					
2860.000	2.072	47.580	49.652	-24.348	74.000
4904.000	5.530	43.260	48.791	-25.209	74.000
7356.000	13.005	36.210	49.214	-24.786	74.000
9808.000	12.901	36.280	49.181	-24.819	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5319.400	3.814	59.060	62.874	-11.126	74.000
6170.400	5.683	57.170	62.853	-11.147	74.000
11490.000	17.196	34.820	52.017	-21.983	74.000
Average Detector:					
5319.400	3.814	44.910	48.724	-5.276	54.000
6170.400	5.683	43.130	48.813	-5.187	54.000
Vertical					
Peak Detector:					
5319.600	5.730	59.270	65.000	-9.000	74.000
6170.600	7.450	57.820	65.270	-8.730	74.000
11490.000	18.124	35.000	53.125	-20.875	74.000
Average Detector:					
5319.600	5.730	44.690	50.420	-3.580	54.000
6170.600	7.450	43.130	50.580	-3.420	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5785 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5356.600	3.694	57.850	61.545	-12.455	74.000
6213.600	5.630	59.990	65.620	-8.380	74.000
11570.000	16.899	35.100	51.999	-22.001	74.000
Average Detector:					
5356.600	3.694	42.990	46.685	-7.315	54.000
6213.600	5.630	44.880	50.510	-3.490	54.000
Vertical					
Peak Detector:					
5356.600	5.682	57.580	63.262	-10.738	74.000
6213.600	7.646	59.160	66.806	-7.194	74.000
11570.000	17.788	35.300	53.088	-20.912	74.000
Average Detector:					
5356.600	5.682	43.050	48.732	-5.268	54.000
6213.600	7.646	43.400	51.046	-2.954	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5825 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5393.600	3.598	56.910	60.507	-13.493	74.000
6256.600	5.821	58.080	63.901	-10.099	74.000
11650.000	16.325	34.300	50.626	-23.374	74.000
Average Detector:					
5393.600	3.598	42.940	46.537	-7.463	54.000
6256.600	5.821	43.610	49.431	-4.569	54.000
Vertical					
Peak Detector:					
5393.500	5.645	57.060	62.704	-11.296	74.000
6256.500	7.575	57.000	64.575	-9.425	74.000
11650.000	17.441	35.290	52.732	-21.268	74.000
Average Detector:					
5393.500	5.645	42.580	48.224	-5.776	54.000
6256.500	7.575	43.000	50.575	-3.425	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5329.000	3.785	52.820	56.604	-17.396	74.000
6181.500	5.640	51.770	57.410	-16.590	74.000
11510.000	17.214	35.120	52.334	-21.666	74.000
Average Detector:					
5329.000	3.785	37.170	40.954	-13.046	54.000
6181.500	5.640	37.330	42.970	-11.030	54.000
Vertical					
Peak Detector:					
5328.500	5.719	51.740	57.458	-16.542	74.000
6181.500	7.530	48.640	56.170	-17.830	74.000
11510.000	18.171	34.690	52.861	-21.139	74.000
Average Detector:					
5328.500	5.719	37.060	42.778	-11.222	54.000
6181.500	7.530	34.680	42.210	-11.790	54.000

Note:

- All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- Measurement Level = Reading Level + Correct Factor.
- Correct Factor = Antenna factor + Cable loss – Amplifier gain.
- The average measurement was not performed when the peak measured data under the limit of average detection.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5795 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
5365.500	3.665	49.780	53.445	-20.555	74.000
6224.500	5.678	51.270	56.948	-17.052	74.000
11590.000	16.791	34.870	51.660	-22.340	74.000
Average Detector:					
5365.500	3.665	35.490	39.155	-14.845	54.000
6224.500	5.678	36.590	42.268	-11.732	54.000
Vertical					
Peak Detector:					
5365.500	5.669	48.570	54.240	-19.760	74.000
6224.500	7.628	49.790	57.418	-16.582	74.000
11590.000	17.657	34.490	52.146	-21.854	74.000
Average Detector:					
5365.500	5.669	34.610	40.280	-13.720	54.000
6224.500	7.628	35.810	43.438	-10.562	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
61.040	-13.846	32.418	18.572	-21.428	40.000
241.460	-6.531	25.164	18.633	-27.367	46.000
460.680	1.589	22.681	24.270	-21.730	46.000
666.320	2.031	22.949	24.981	-21.019	46.000
833.160	5.643	27.807	33.449	-12.551	46.000
970.900	6.962	21.658	28.620	-25.380	54.000
Vertical					
117.300	-3.106	32.290	29.184	-14.316	43.500
307.420	-6.821	26.357	19.536	-26.464	46.000
505.300	-0.772	24.287	23.515	-22.485	46.000
641.100	-3.972	23.604	19.632	-26.368	46.000
753.620	3.187	23.337	26.524	-19.476	46.000
928.220	6.203	23.595	29.798	-16.202	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
117.300	-9.196	33.304	24.108	-19.392	43.500
286.080	-4.687	23.947	19.260	-26.740	46.000
462.620	1.172	23.136	24.308	-21.692	46.000
629.460	1.560	29.317	30.877	-15.123	46.000
767.200	4.235	22.516	26.751	-19.249	46.000
941.800	6.435	22.896	29.331	-16.669	46.000
Vertical					
117.300	-3.106	33.304	30.198	-13.302	43.500
255.040	-7.648	25.472	17.824	-28.176	46.000
460.680	-3.221	22.847	19.626	-26.374	46.000
658.560	-2.985	24.787	21.802	-24.198	46.000
833.160	2.263	24.379	26.642	-19.358	46.000
968.960	8.191	22.187	30.378	-23.622	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
152.220	-10.135	30.508	20.373	-23.127	43.500
258.920	-5.050	25.670	20.620	-25.380	46.000
460.680	1.589	23.435	25.024	-20.976	46.000
615.880	3.215	27.241	30.456	-15.544	46.000
705.120	2.635	37.487	40.122	-5.878	46.000
823.460	6.122	22.788	28.911	-17.089	46.000
Vertical					
117.300	-3.106	33.304	30.198	-13.302	43.500
301.600	-6.785	25.124	18.340	-27.660	46.000
460.680	-3.221	23.435	20.214	-25.786	46.000
615.880	-1.905	27.241	25.336	-20.664	46.000
691.540	2.421	33.164	35.585	-10.415	46.000
924.340	5.550	23.727	29.277	-16.723	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
138.640	-10.435	32.664	22.229	-21.271	43.500
255.040	-5.098	25.472	20.374	-25.626	46.000
460.680	1.589	22.847	24.436	-21.564	46.000
658.560	2.115	25.388	27.503	-18.497	46.000
833.160	5.643	24.380	30.022	-15.978	46.000
970.900	6.962	22.717	29.679	-24.321	54.000
Vertical					
61.040	-4.316	32.789	28.473	-11.527	40.000
224.000	-8.699	28.005	19.306	-26.694	46.000
390.840	-3.099	24.708	21.609	-24.391	46.000
615.880	-1.905	26.978	25.073	-20.927	46.000
759.440	2.532	23.743	26.275	-19.725	46.000
889.420	2.512	23.593	26.105	-19.895	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
152.220	-10.135	30.508	20.373	-23.127	43.500
303.540	-3.074	23.545	20.471	-25.529	46.000
450.980	-1.756	22.985	21.230	-24.770	46.000
606.180	4.666	22.953	27.619	-18.381	46.000
726.460	3.469	25.065	28.534	-17.466	46.000
852.560	6.342	22.783	29.125	-16.875	46.000
Vertical					
64.920	-5.683	31.734	26.051	-13.949	40.000
152.220	-6.215	30.508	24.293	-19.207	43.500
367.560	-2.545	30.830	28.285	-17.715	46.000
691.540	2.421	33.164	35.585	-10.415	46.000
833.160	2.263	24.490	26.753	-19.247	46.000
982.540	2.885	22.377	25.262	-28.738	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5785 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
117.300	-9.196	33.304	24.108	-19.392	43.500
268.620	-4.942	24.469	19.527	-26.473	46.000
493.660	-0.536	23.829	23.293	-22.707	46.000
741.980	3.345	23.566	26.911	-19.089	46.000
916.580	6.144	24.100	30.244	-15.756	46.000
982.540	7.265	22.377	29.642	-24.358	54.000
Vertical					
97.900	-1.400	26.548	25.147	-18.353	43.500
344.280	-3.171	27.940	24.770	-21.230	46.000
499.480	-0.852	23.676	22.824	-23.176	46.000
658.560	-2.985	26.023	23.038	-22.962	46.000
773.020	2.746	22.485	25.231	-20.769	46.000
910.760	2.434	23.020	25.455	-20.545	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : ASUS Tablet
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
68.800	-12.425	28.334	15.909	-24.091	40.000
191.020	-10.040	30.318	20.278	-23.222	43.500
460.680	1.589	23.359	24.948	-21.052	46.000
644.980	1.552	28.164	29.716	-16.284	46.000
833.160	5.643	24.491	30.133	-15.867	46.000
978.660	6.754	23.167	29.921	-24.079	54.000
Vertical					
134.760	-4.648	32.582	27.934	-15.566	43.500
348.160	-3.458	29.079	25.621	-20.379	46.000
532.460	-0.563	24.974	24.411	-21.589	46.000
679.900	1.000	23.678	24.678	-21.322	46.000
875.840	1.621	22.740	24.361	-21.639	46.000
972.840	4.582	22.363	26.945	-27.055	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. RF antenna conducted test

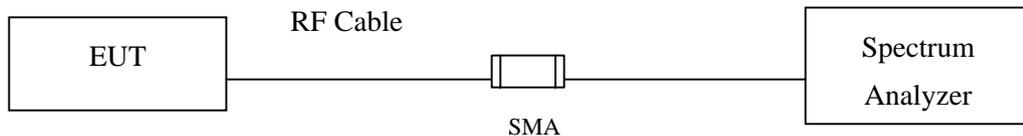
5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with “X” are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Uncertainty

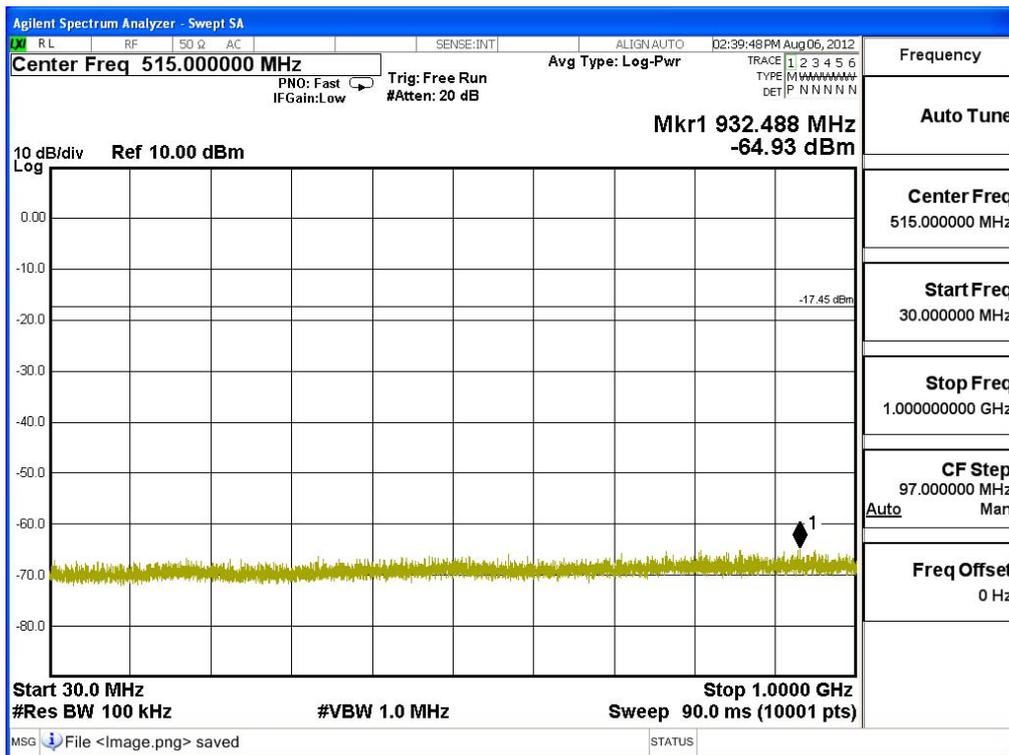
The measurement uncertainty

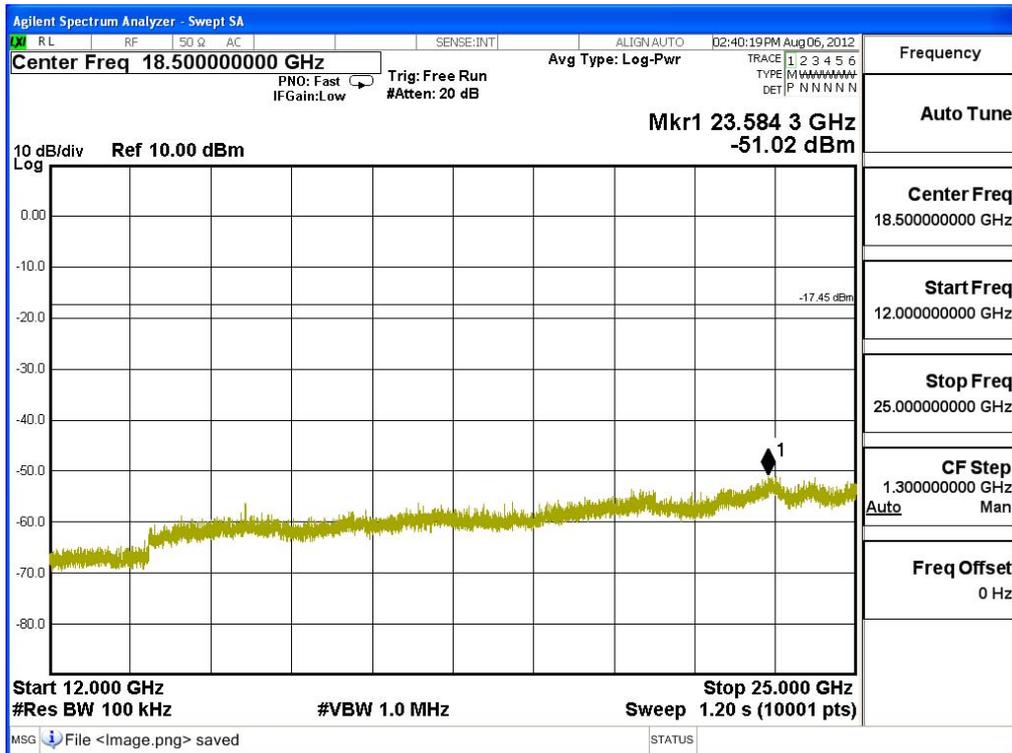
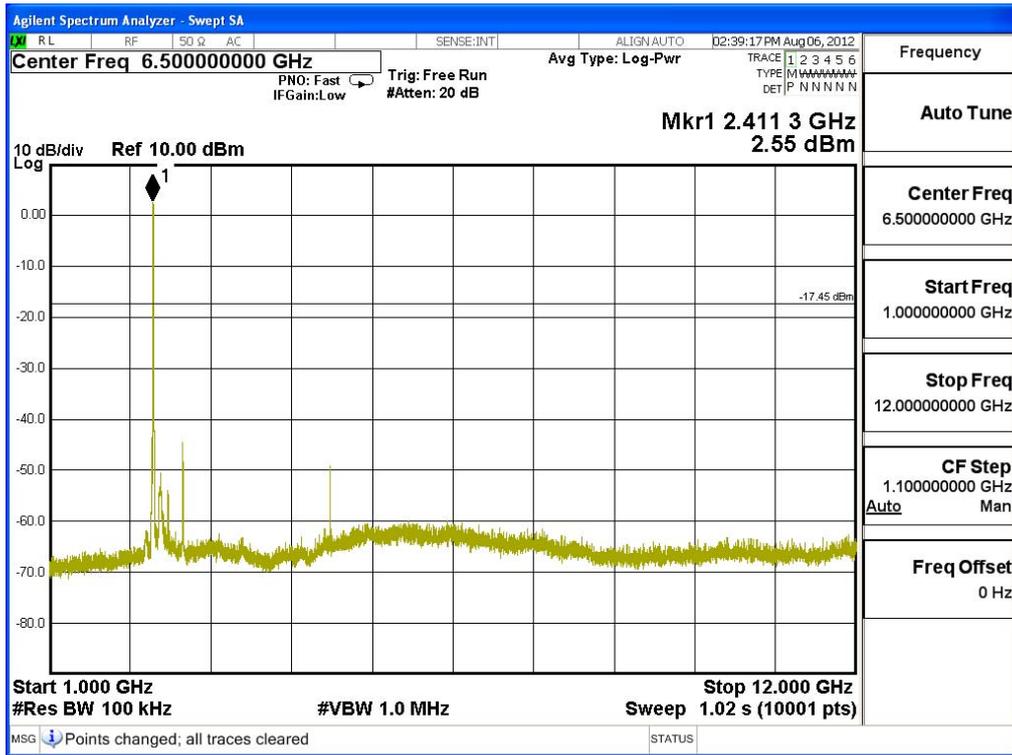
Conducted is defined as $\pm 1.27\text{dB}$

5.6. Test Result of RF antenna conducted test

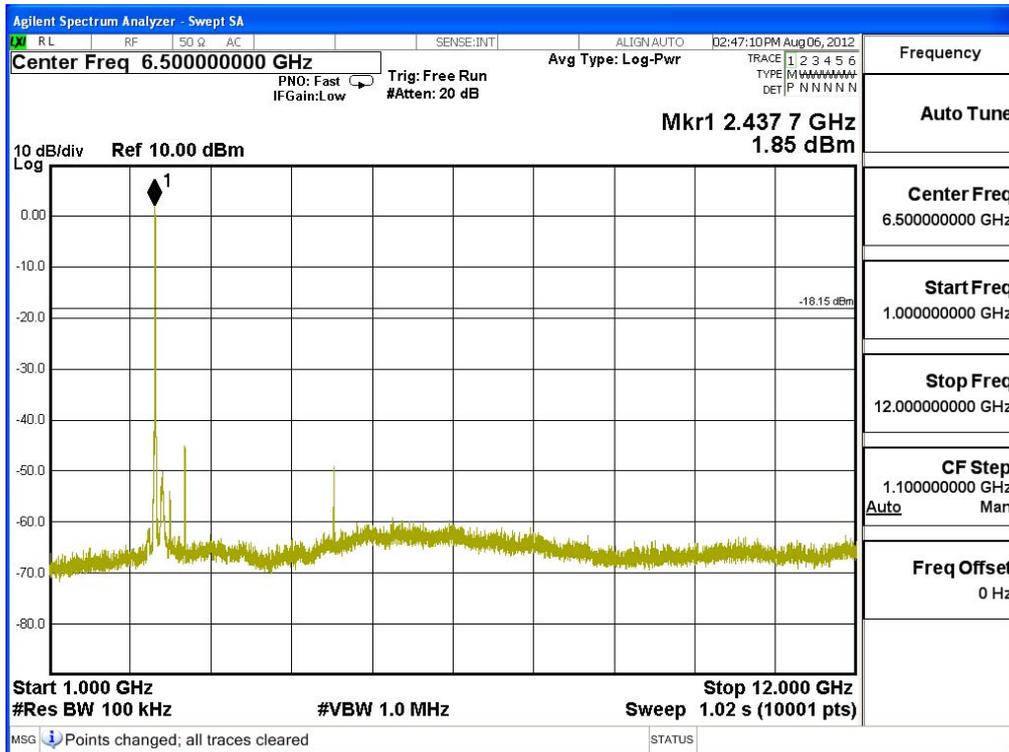
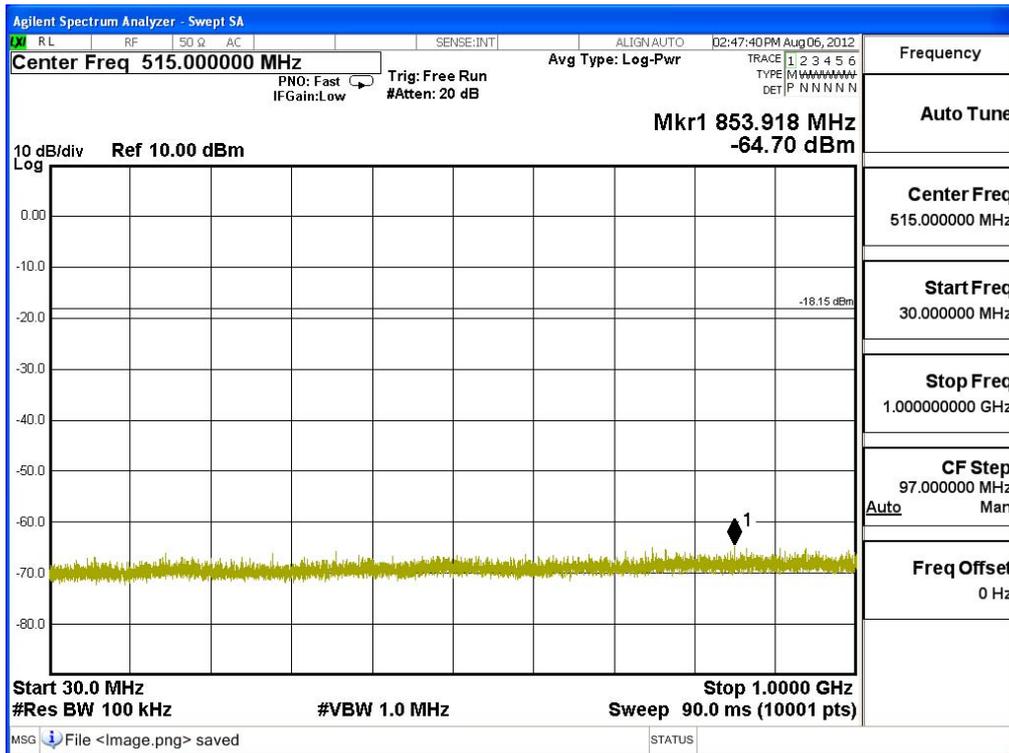
Product : ASUS Tablet
 Test Item : RF antenna conducted test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

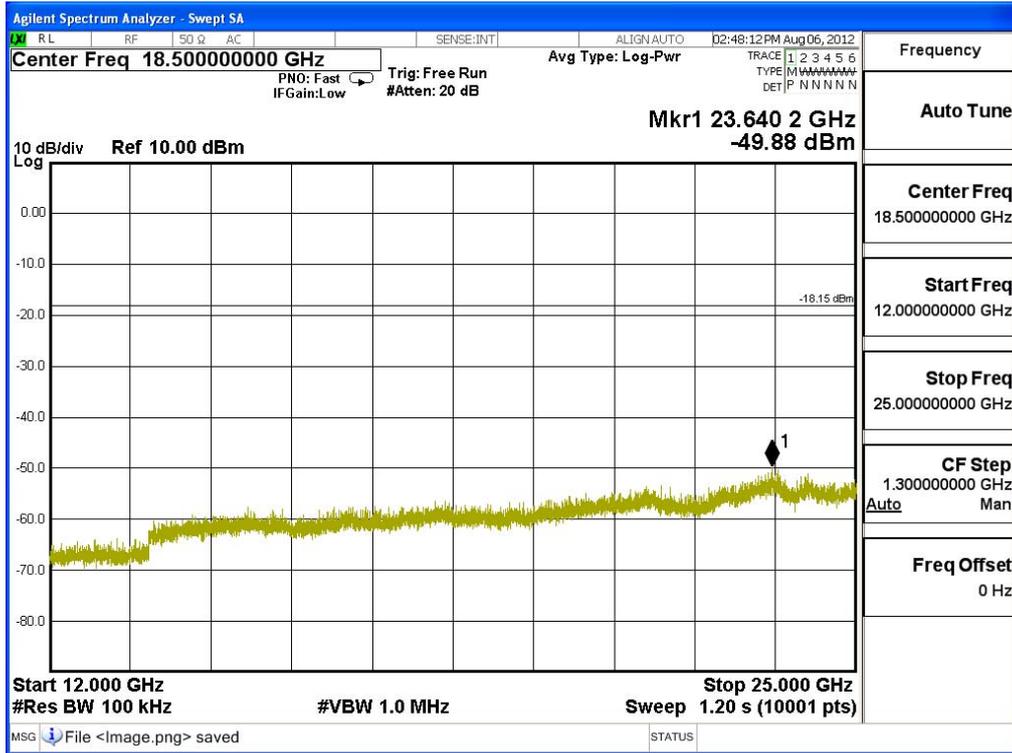
Channel 01 (2412MHz) 30MHz-25GHz-Chain A



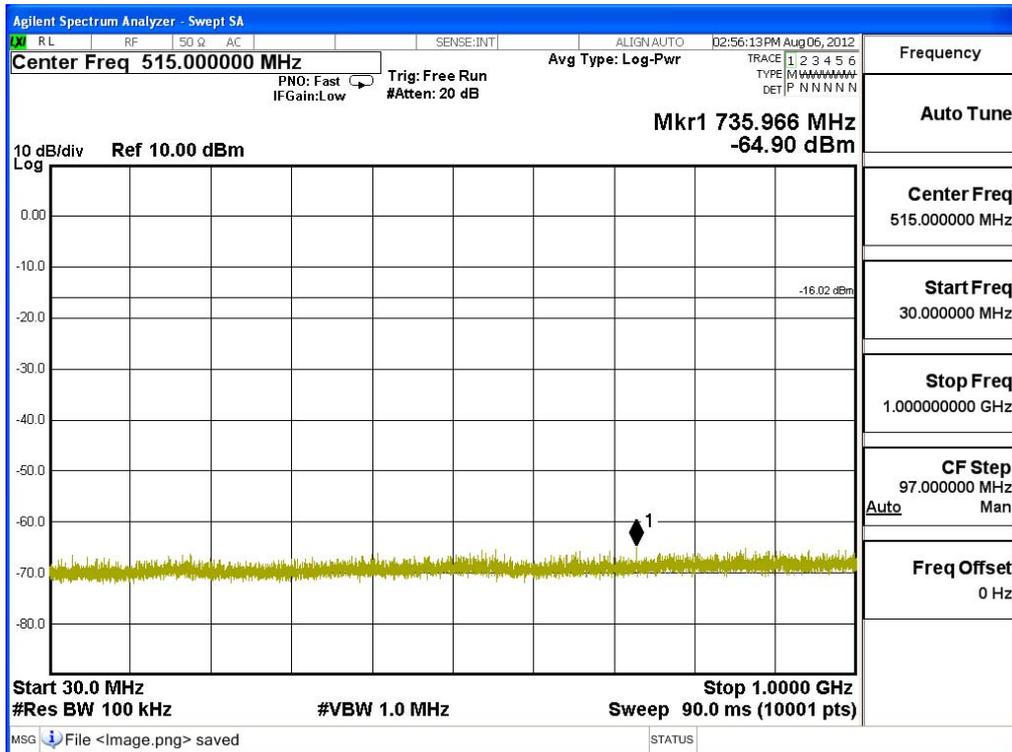


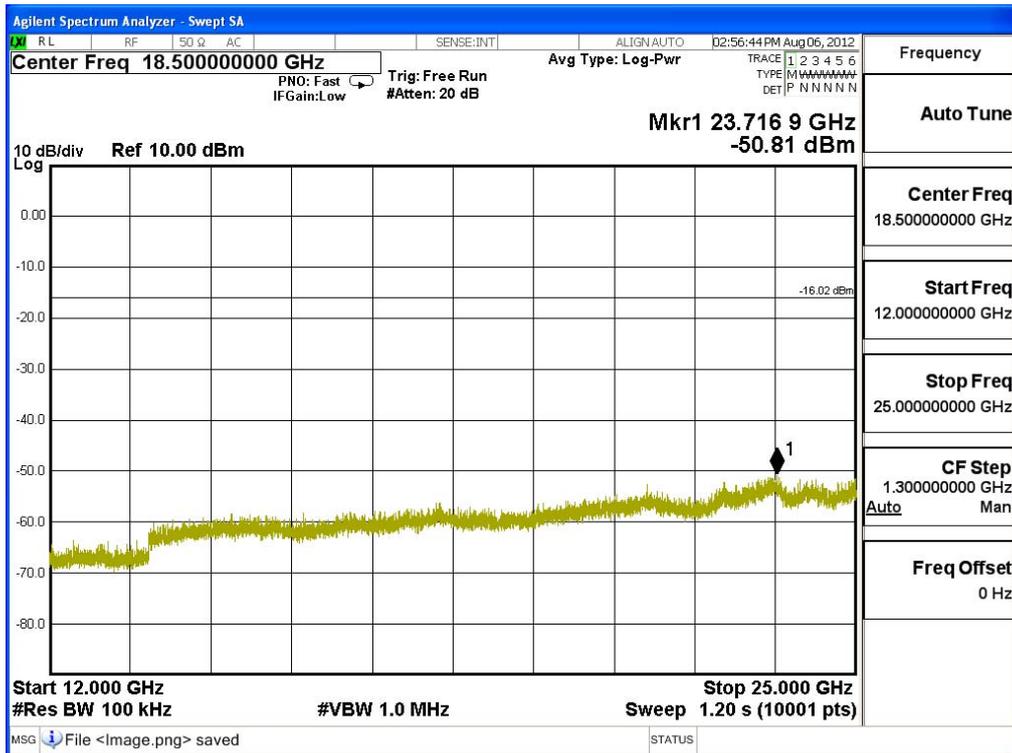
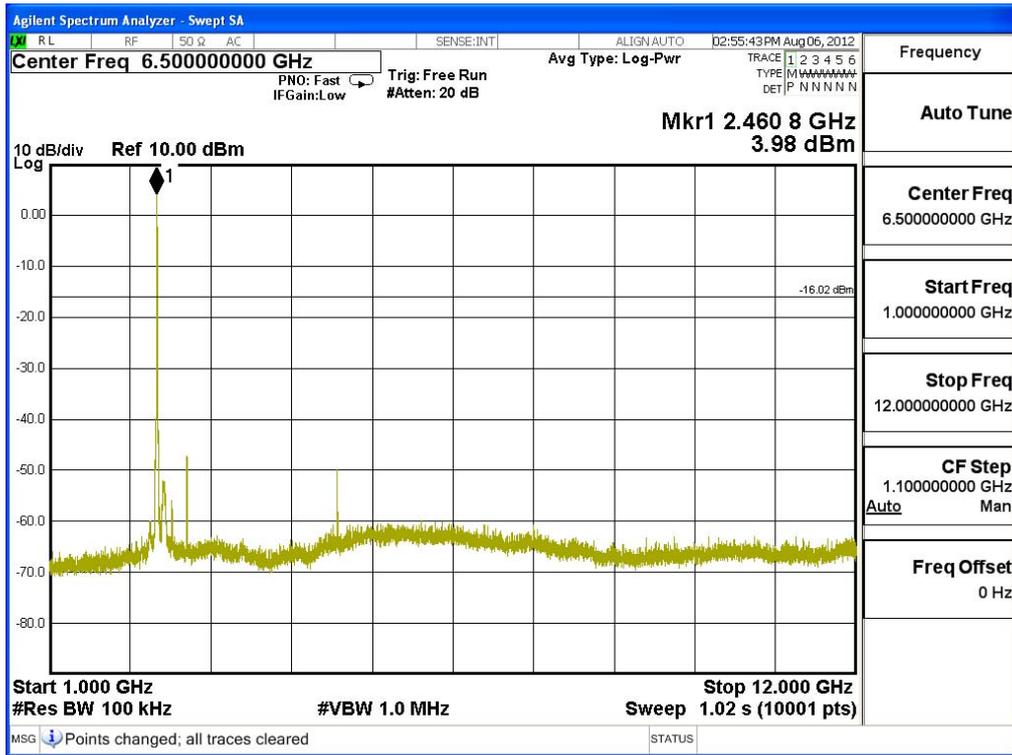
Channel 06 (2437MHz) 30MHz -25GHz-Chain A





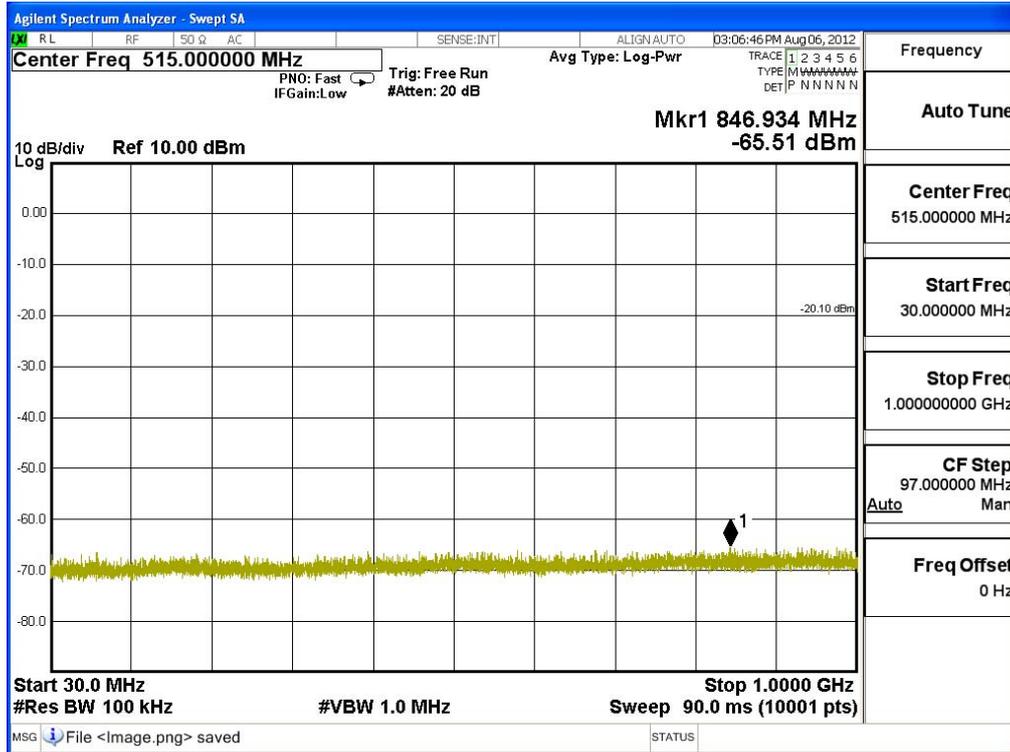
Channel 11 (2462MHz) 30MHz -25GHz-Chain A

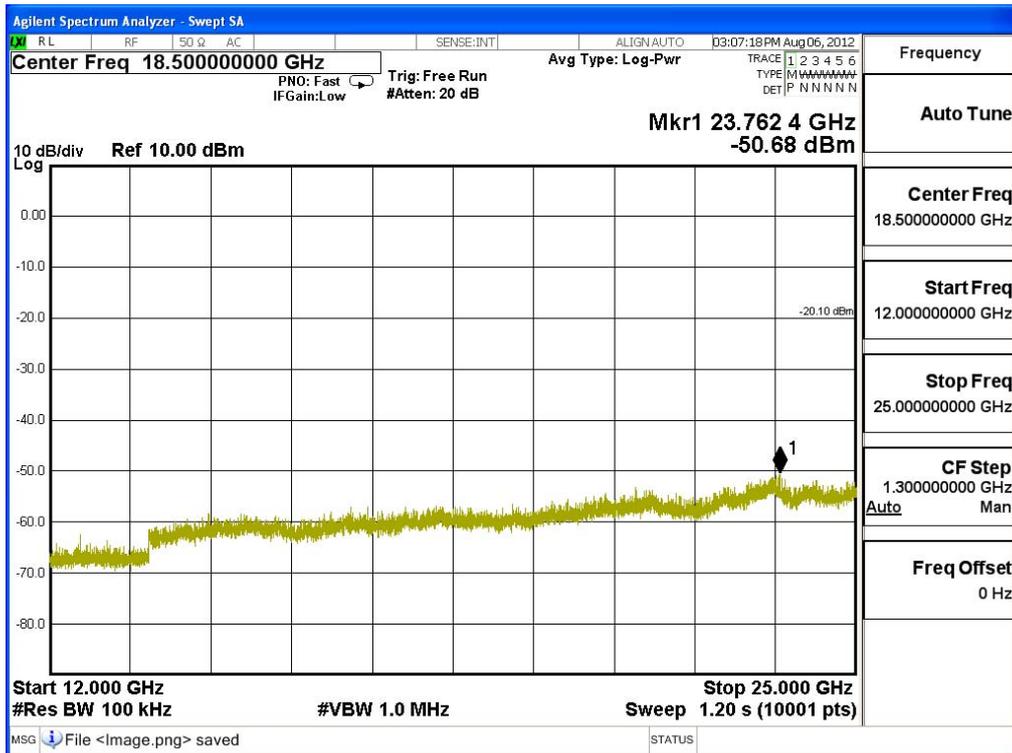
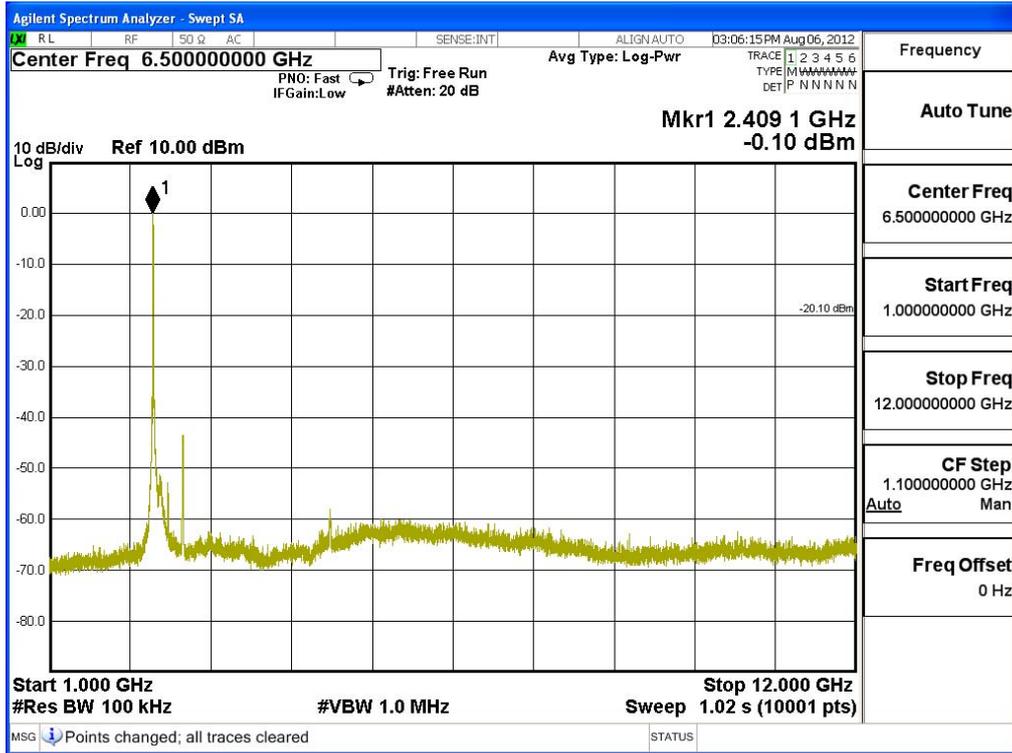




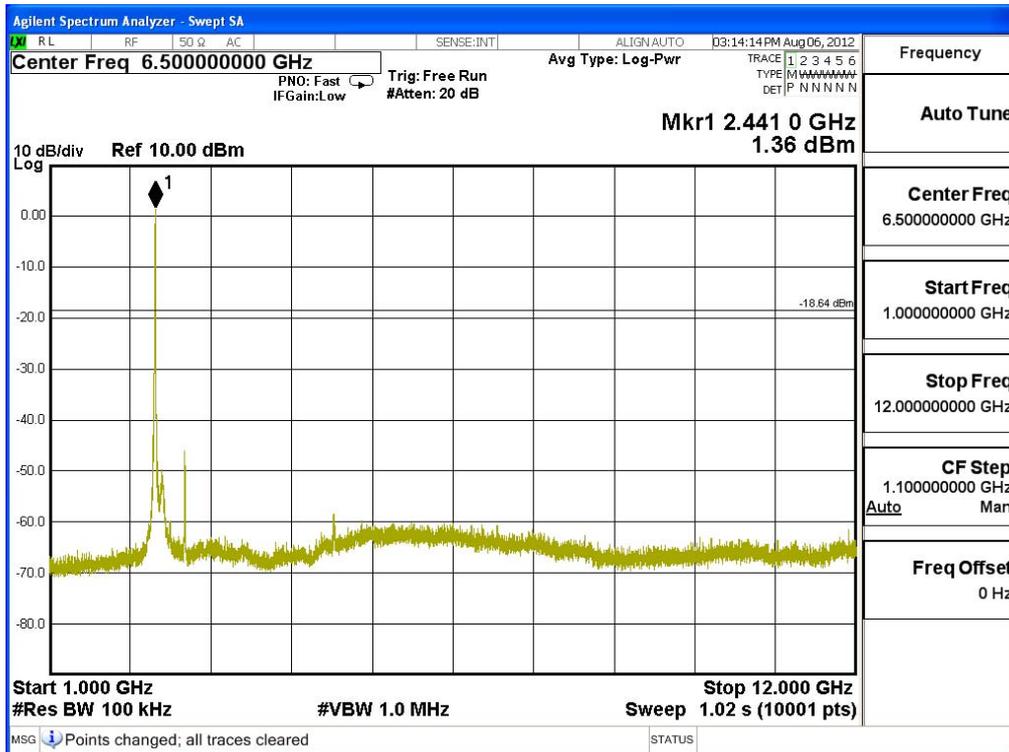
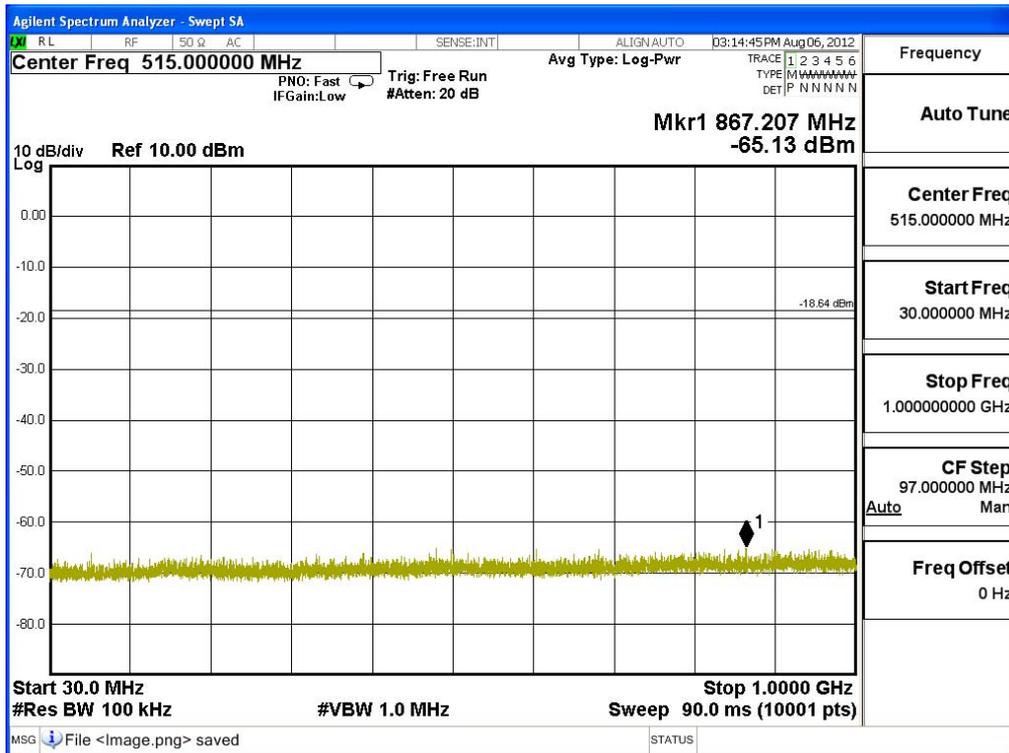
Product : ASUS Tablet
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

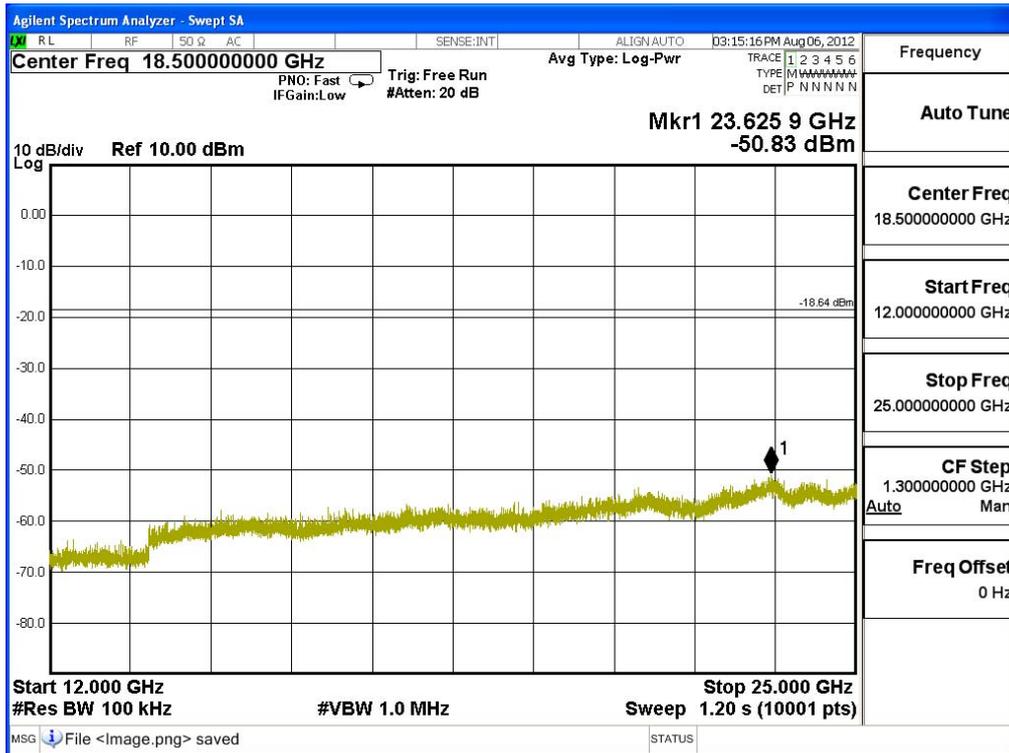
Channel 01 (2412MHz) 30MHz -25GHz-Chain A



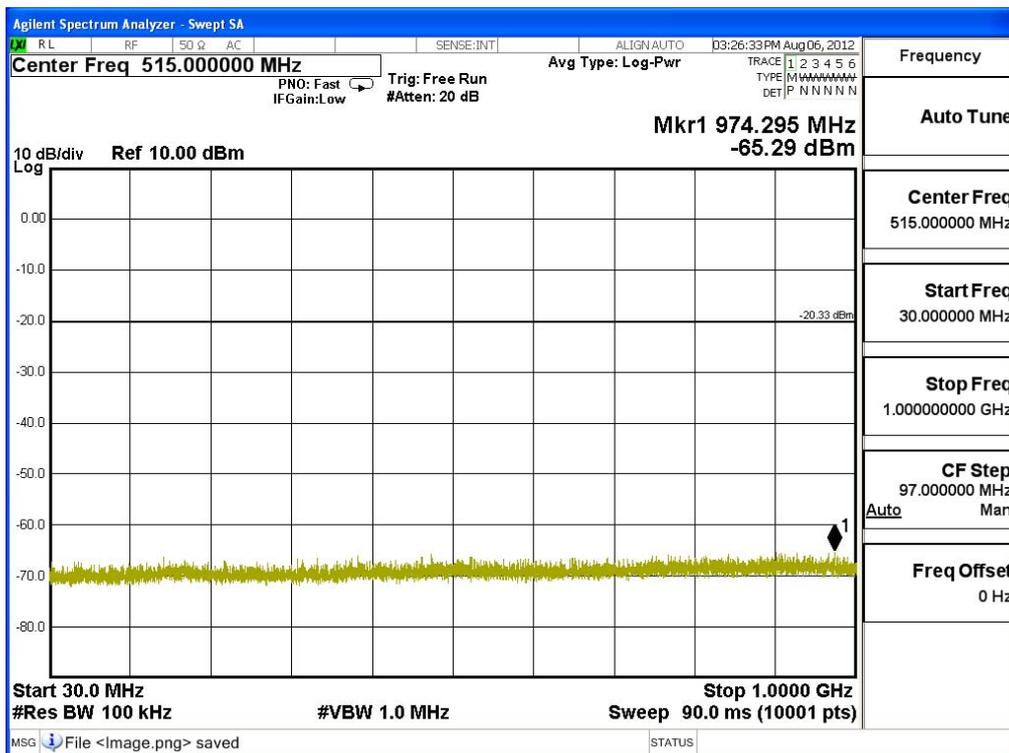


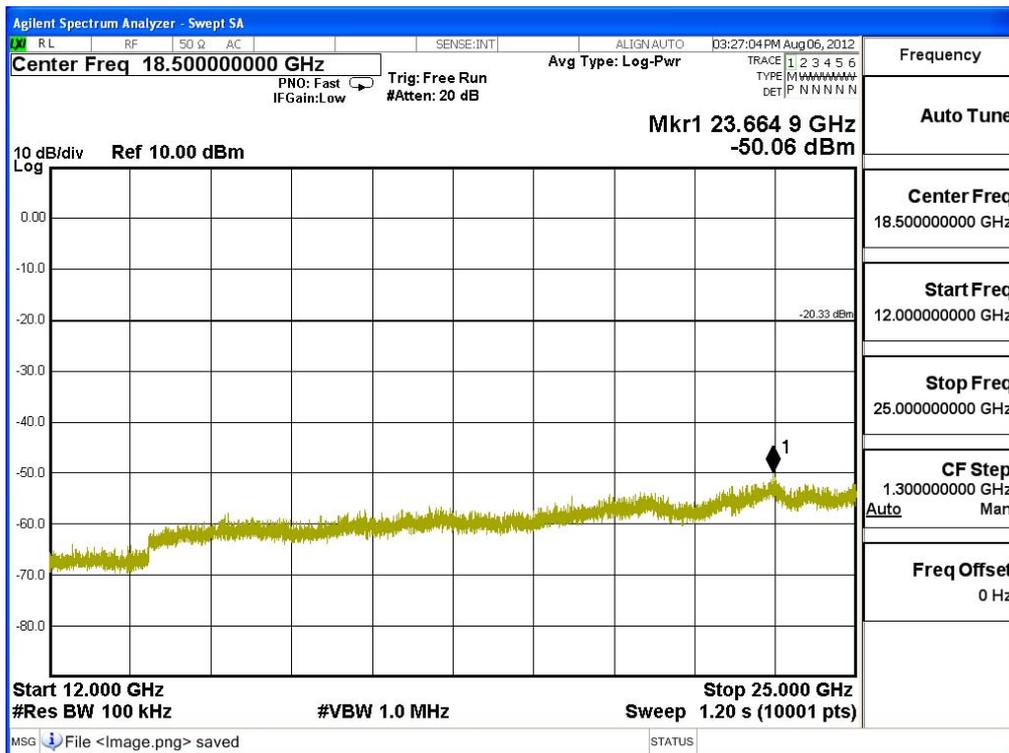
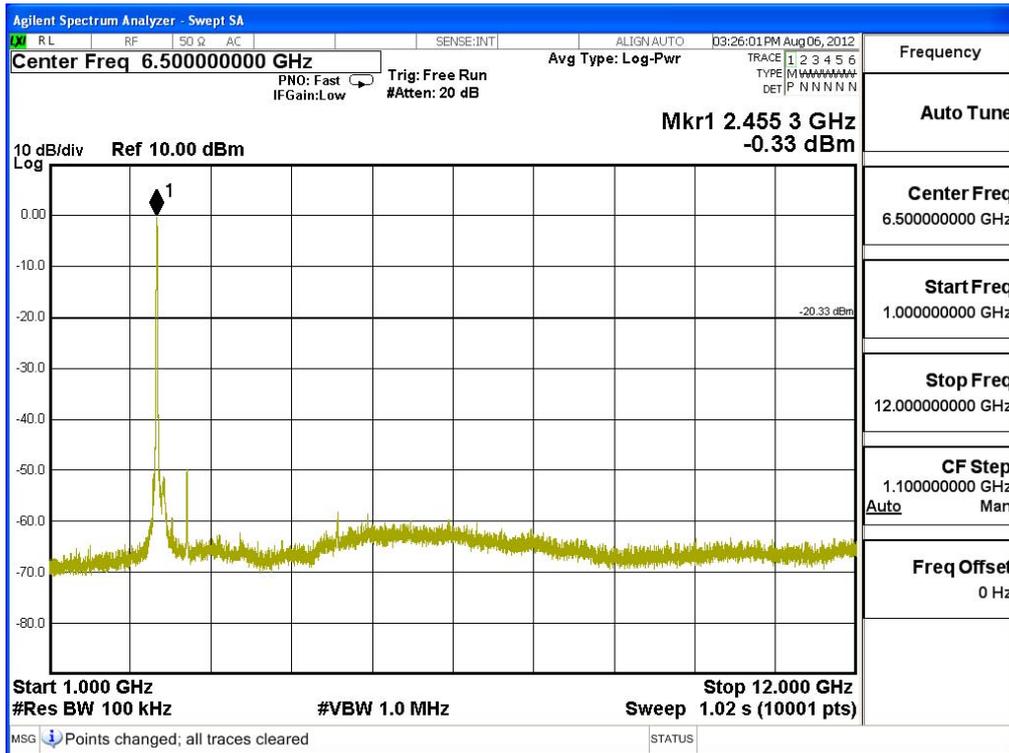
Channel 06 (2437MHz) 30MHz -25GHz-Chain A





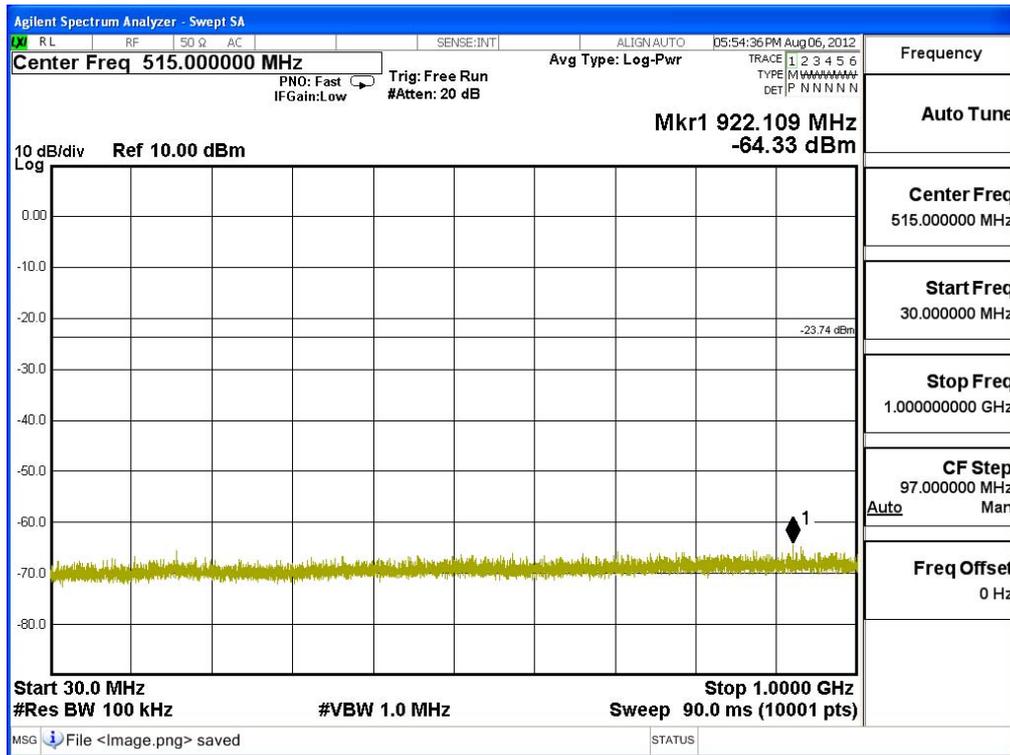
Channel 11 (2462MHz) 30MHz -25GHz-Chain A

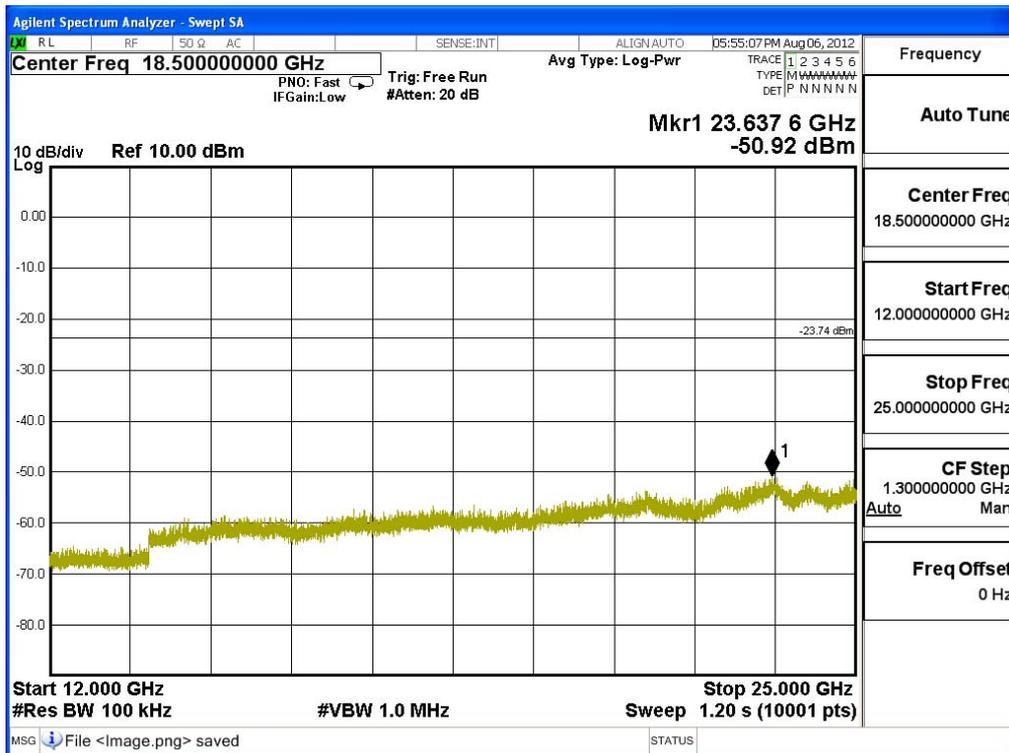
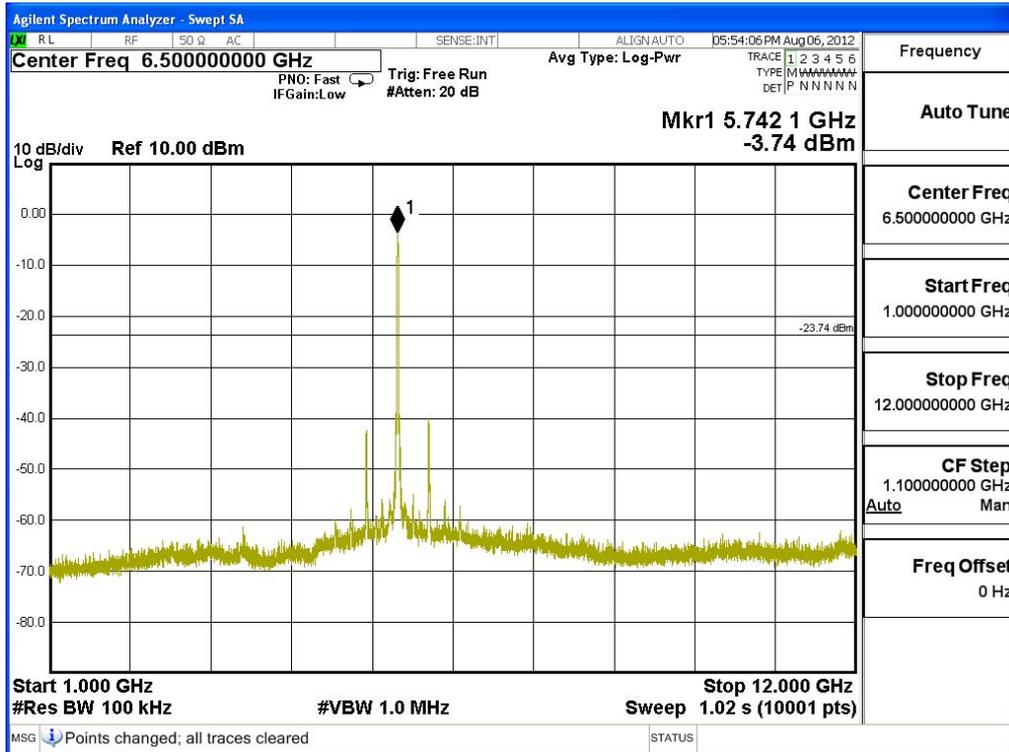


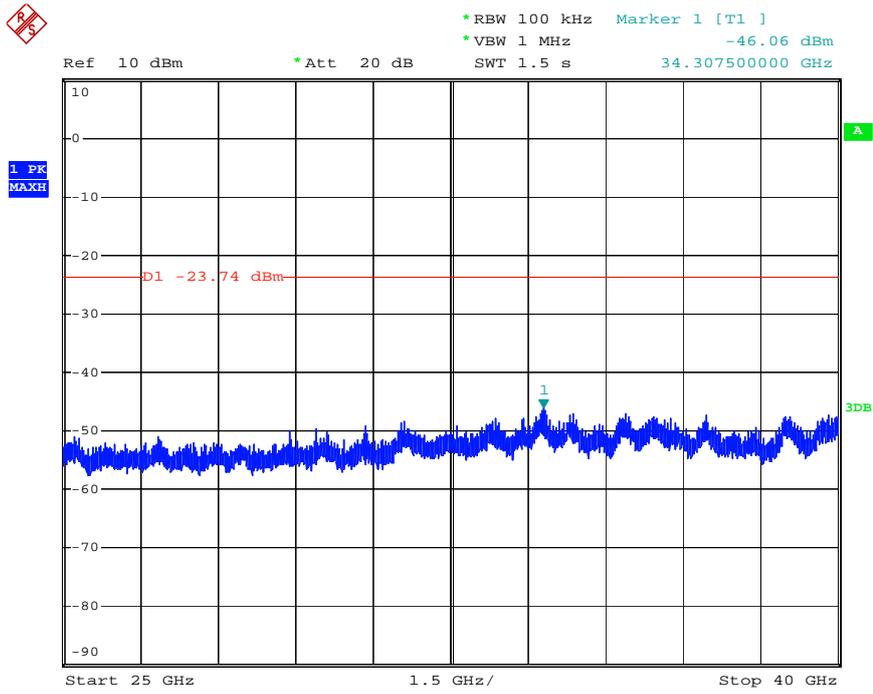


Product : ASUS Tablet
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

Channel 149 (5745MHz) 30MHz -40GHz-Chain A

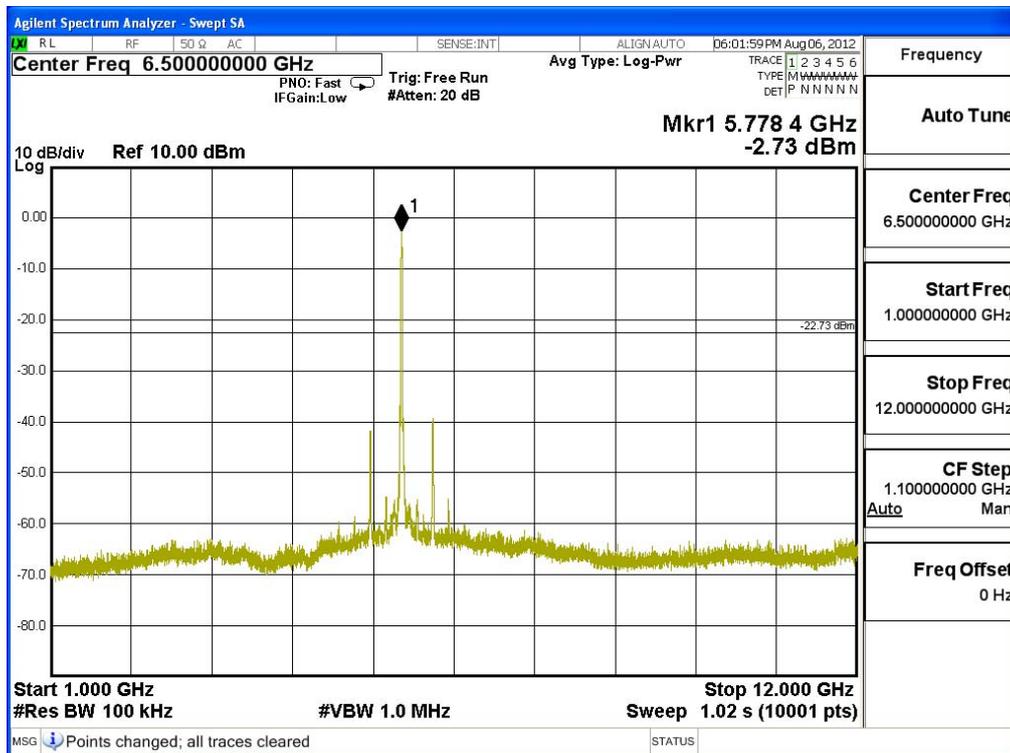
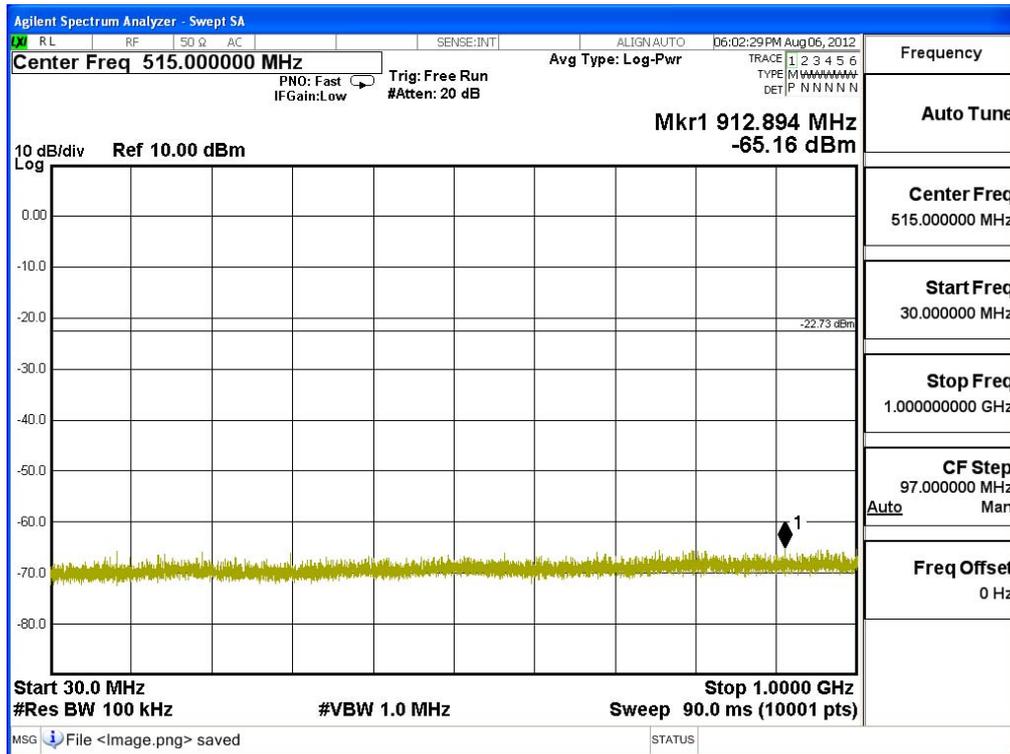


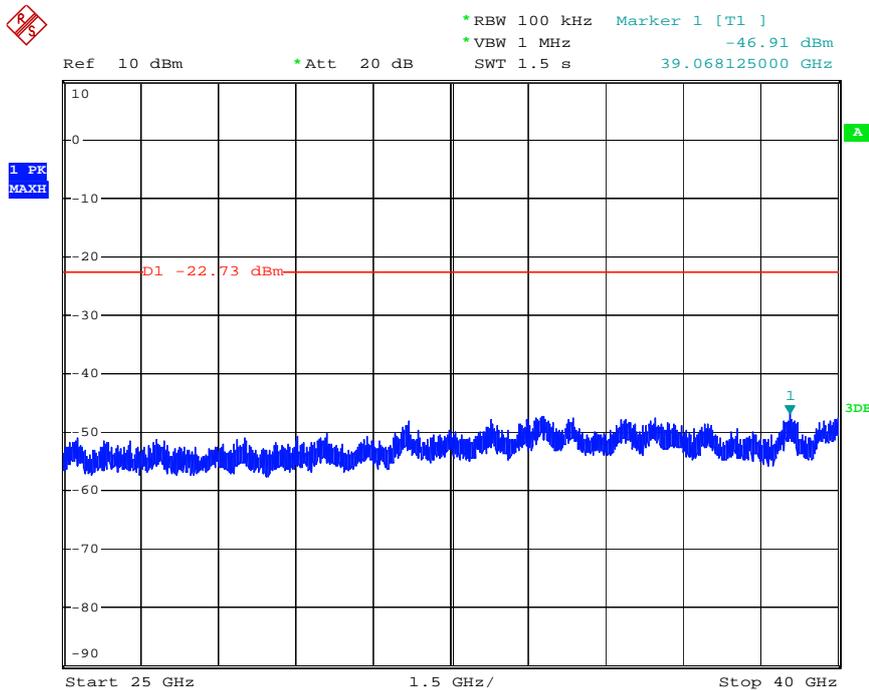
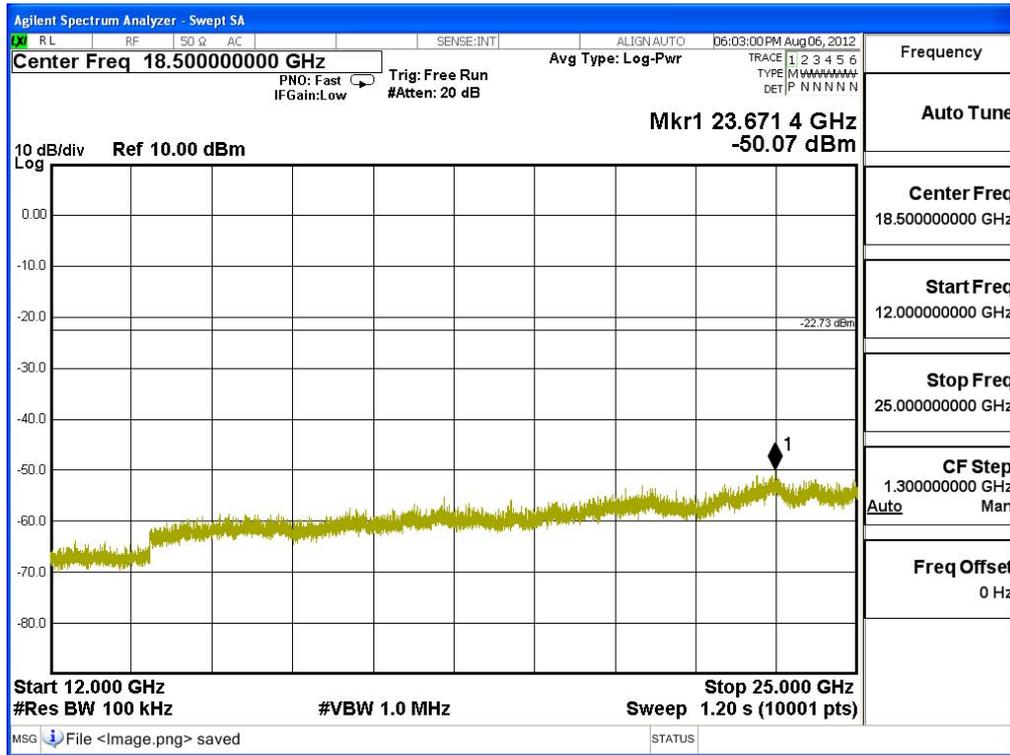




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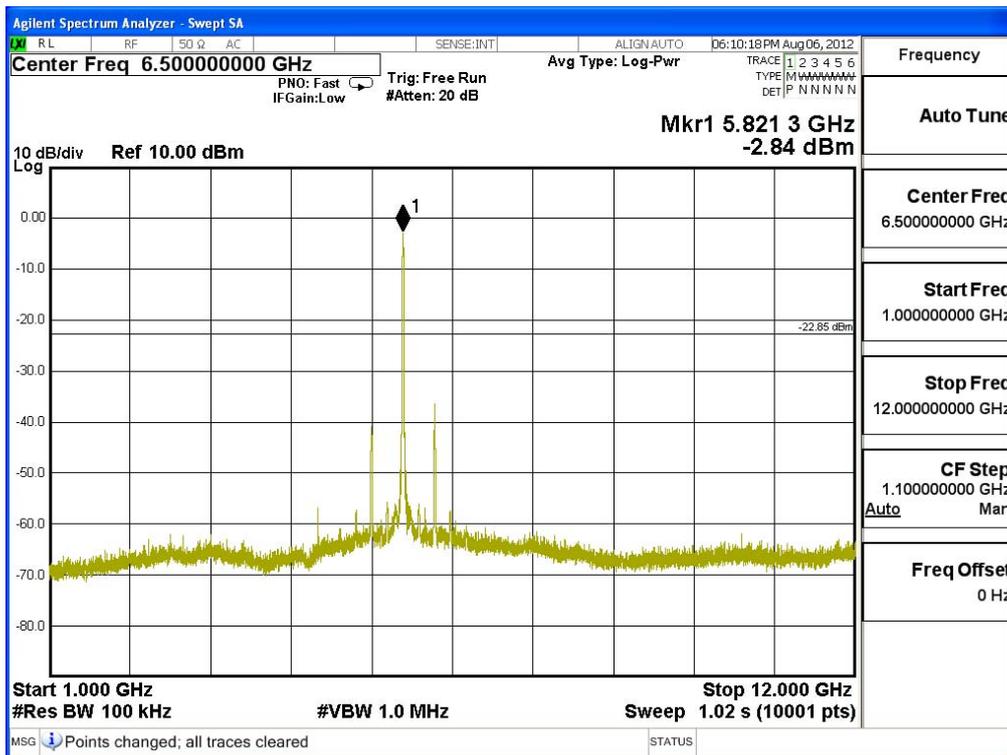
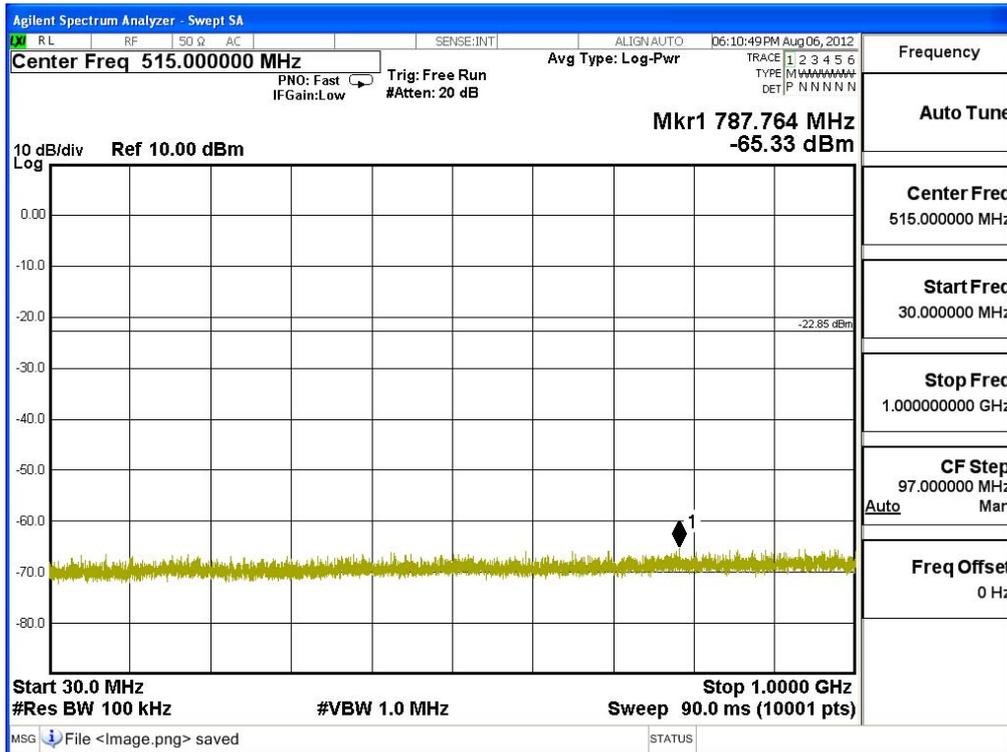
Channel 157 (5785MHz) 30MHz -40GHz-Chain A

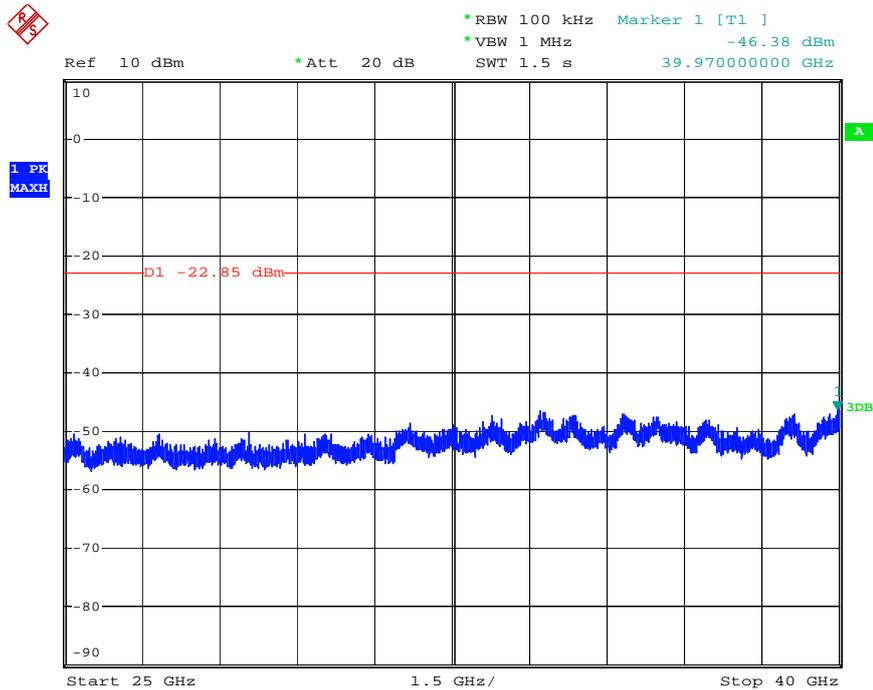
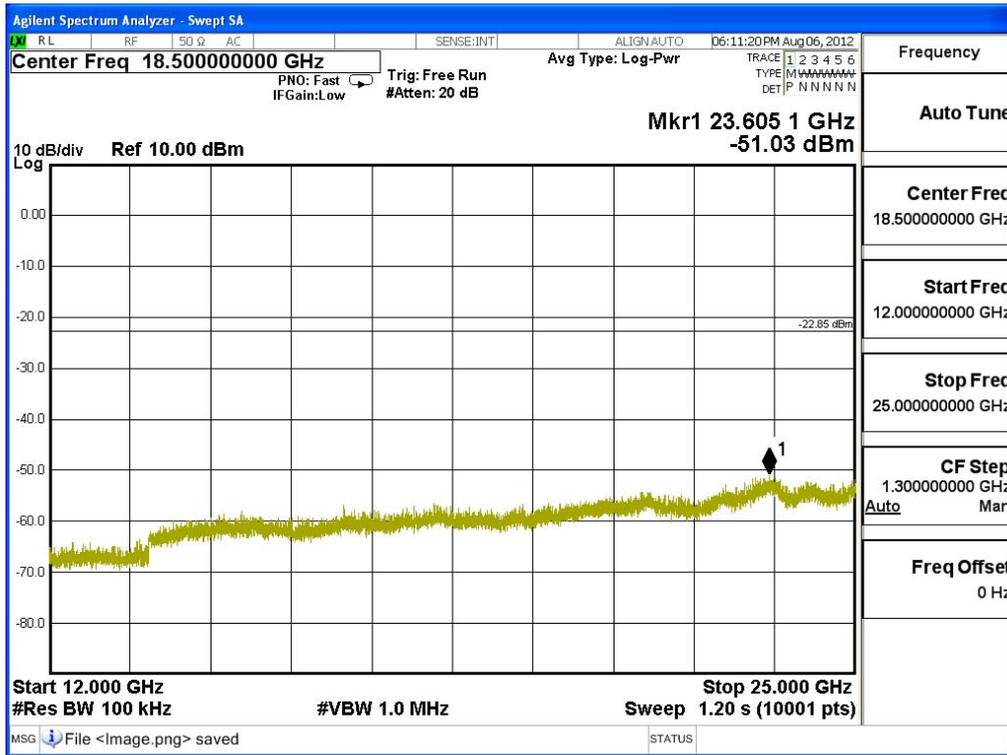




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Channel 165 (5825MHz) 30MHz -40GHz-Chain A

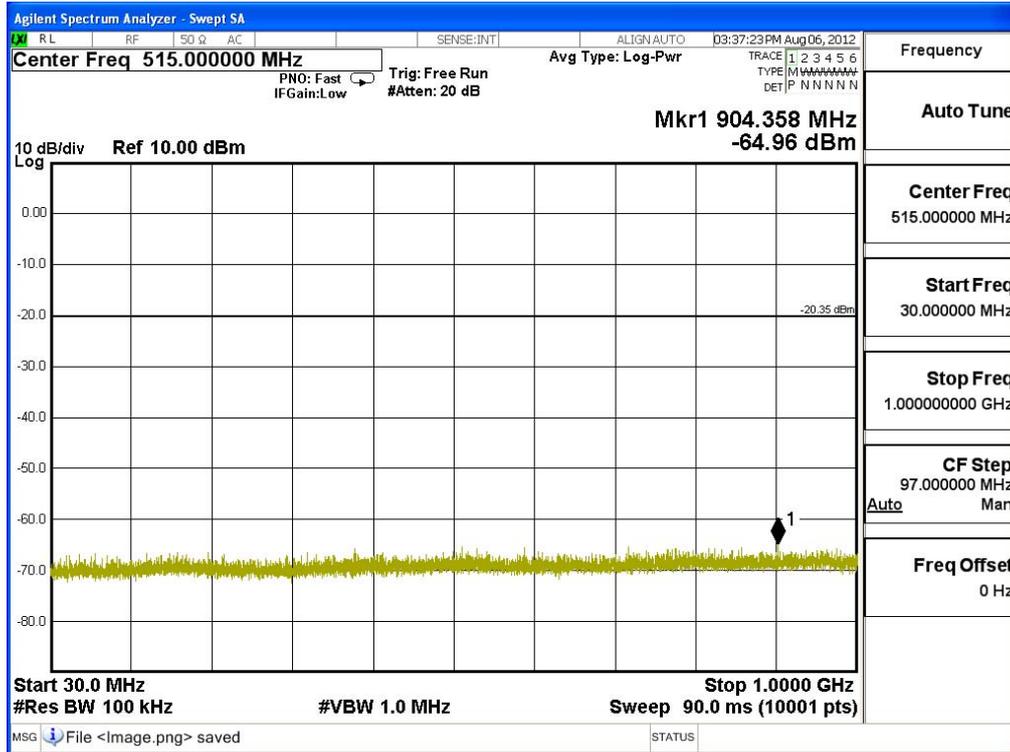


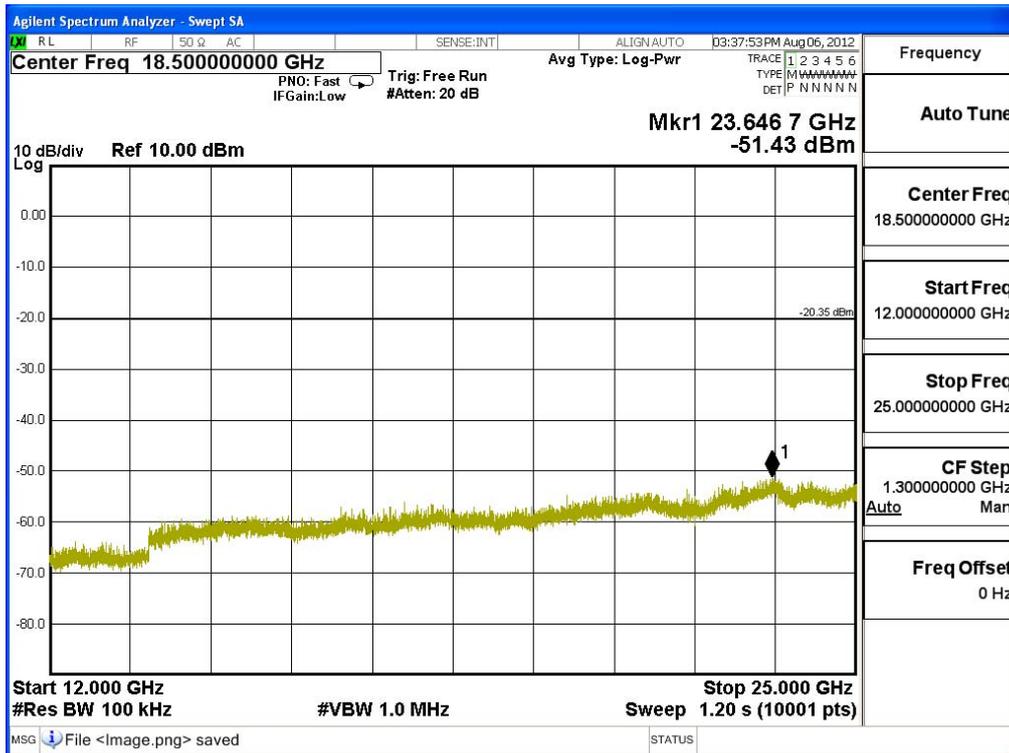
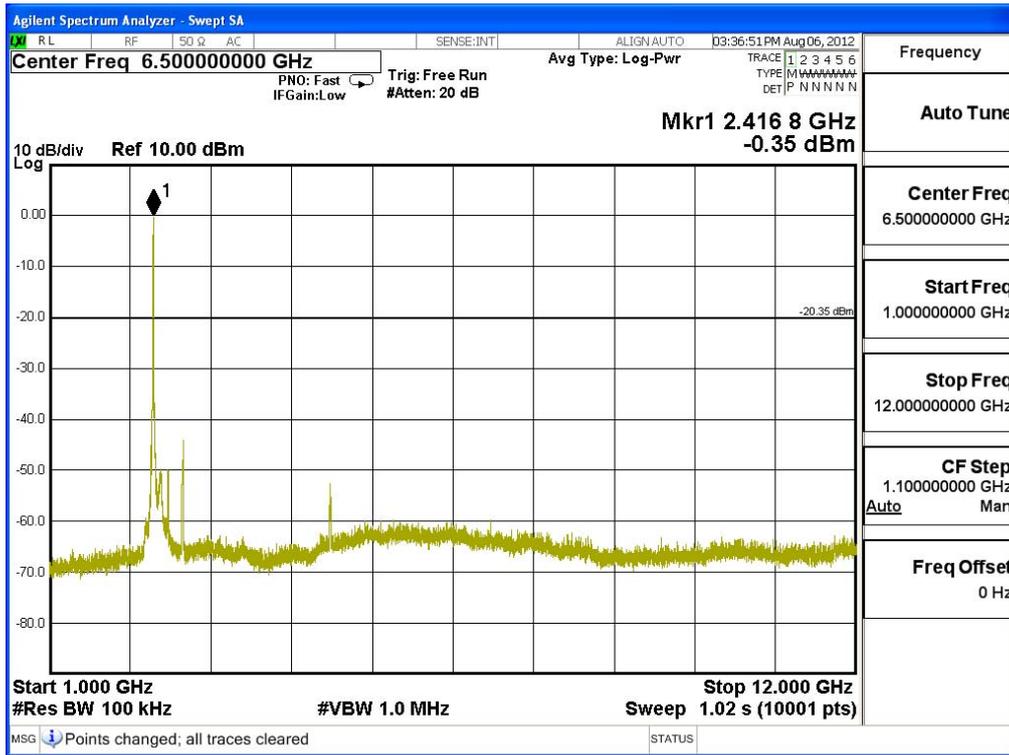


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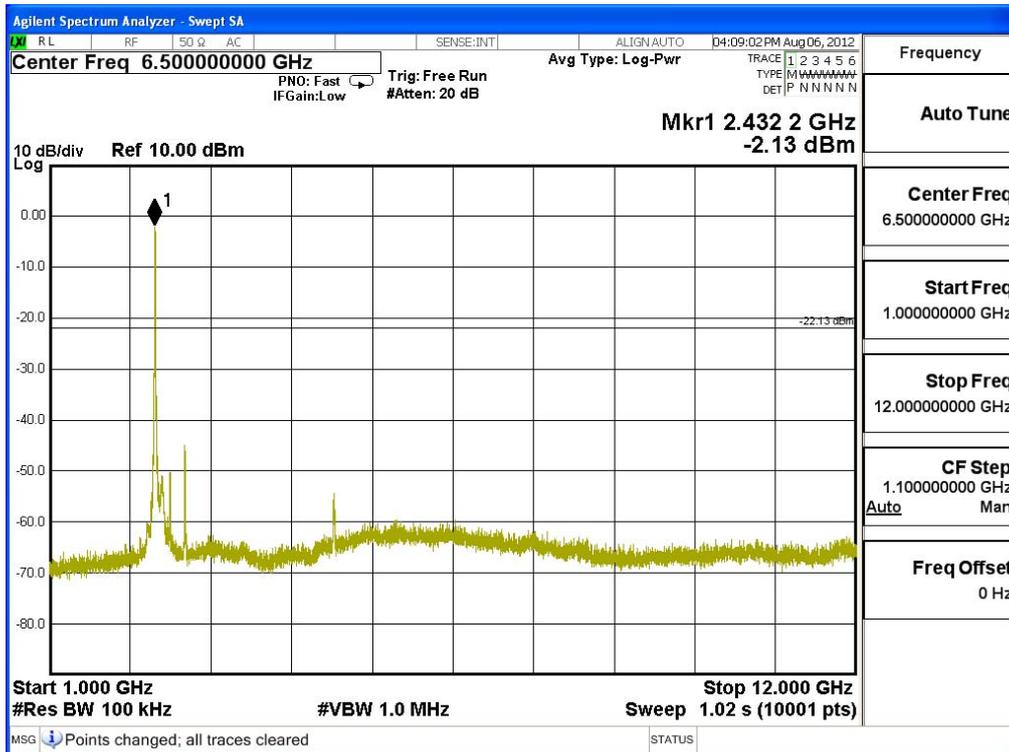
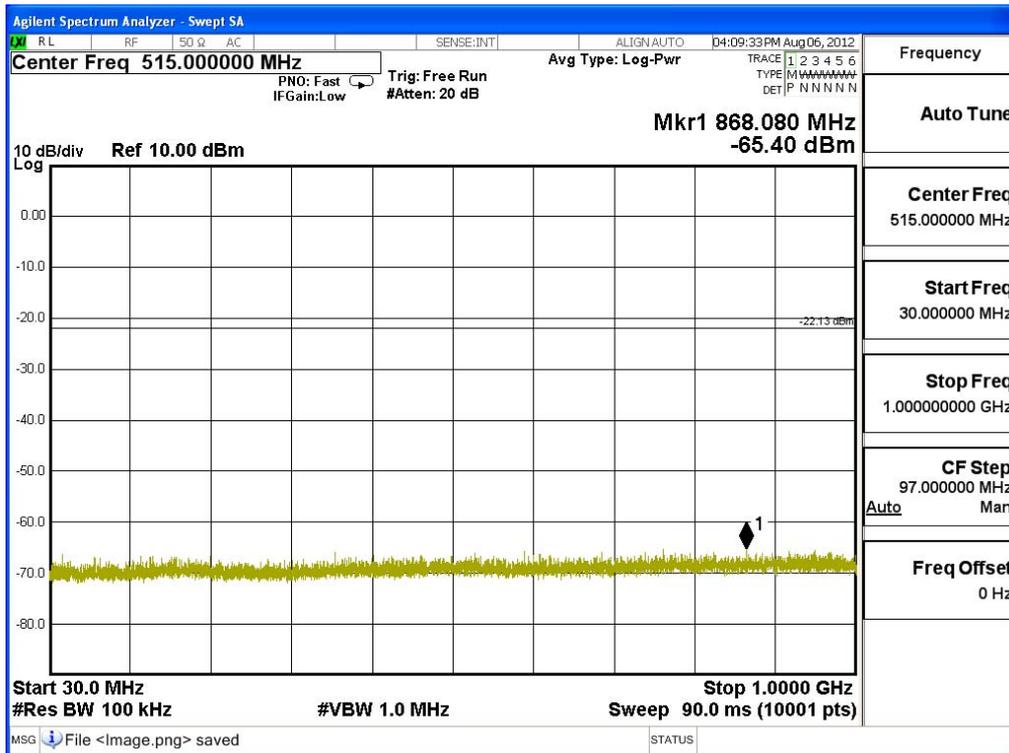
Product : ASUS Tablet
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

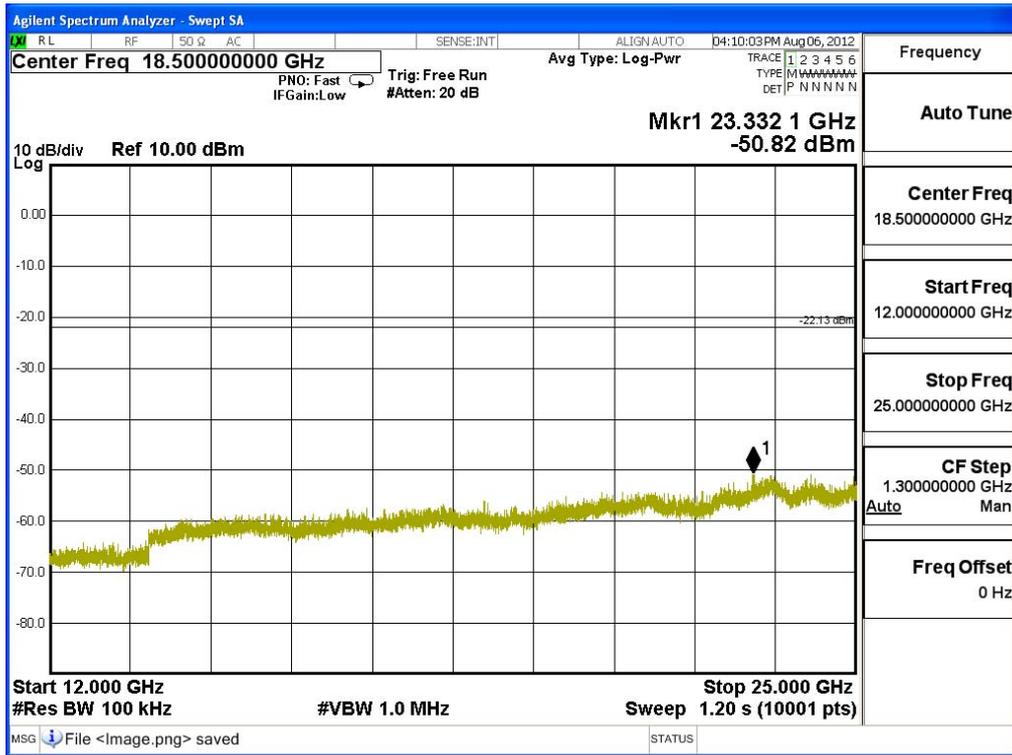
Channel 01 (2412MHz) 30MHz -25GHz-Chain A





Channel 06 (2437MHz) 30MHz -25GHz-Chain A





Channel 11 (2462MHz) 30MHz -25GHz-Chain A

