

FCC Test Report

Product Name	TABLET PC
Model No	T70C
FCC ID.	ZWMT70C

Applicant	Ubiqconn Technology, Inc.
Address	No. 300 Yang Guang St., NeiHu, Taipei, Taiwan 114

Date of Receipt	Mar. 13, 2013
Issue Date	Apr. 29, 2013
Report No.	133279R-RFUSP42V01
Report Version	V1.0



Testing Laboratory

0914

The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issue Date: Apr. 29, 2013

Report No.: 133279R-RFUSP42V01



Product Name	TABLET PC
Applicant	Ubiqconn Technology, Inc.
Address	No. 300 Yang Guang St., NeiHu, Taipei, Taiwan 114
Manufacturer	Ubiqconn Technology, Inc.
Model No.	T70C
FCC ID.	ZWMT70C
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	Ubiqconn, UTI
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2012 ANSI C63.4: 2003, ANSI C63.10: 2009
Test Result	Complied

The test results relate only to the samples tested.

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Documented By :

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Tested By :

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(Engineer / Andy Lin)

Approved By :

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(Manager / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	TABLET PC
Trade Name	Ubiqconn,UTI
Model No.	T70C
FCC ID.	ZWMT70C
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	PCB Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Power Adapter	MFR: FSP, M/N: FSP065-RAB Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Non-Shielded, 1.5m, with one ferrite core bonded.
Power Cable	Non-Shielded, 1.7m
Contain Module	Intel / 62205ANHMW

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Ethertronics Inc.	5001237 (Main) 5001244 (Aux)	PCB Antenna	2.9dBi For 2.4GHz 3.5dBi For 5GHz

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 a TABLET PC, Contains functions and so on WLAN、Bluetooth, This report for WLAN.
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 A 、 802.11g is chain A 、 802.11a is 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)

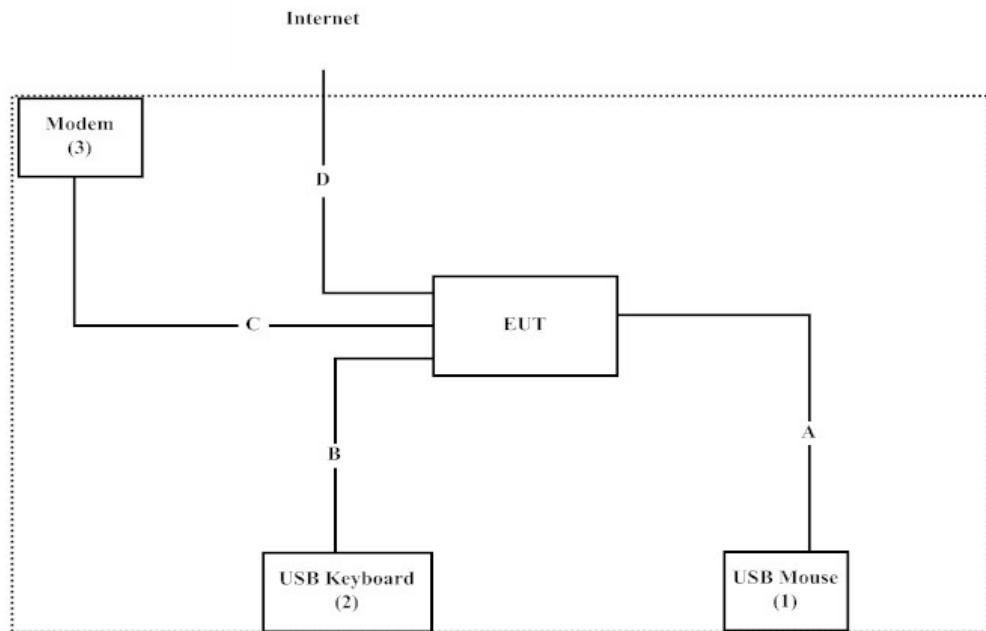
1.3. Tested System Details

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) USB Mouse	DELL	MO56UOA	G0Y02ES8	N/A
(2) USB Keyboard	Logitech	Y-UR83	SY853UK	N/A
(3) Modem	ACEEX	DM-1414	0102027533	Non-Shielded, 1.8m

	Signal Cable Type	Signal cable Description
A	USB Mouse Cable	Non-Shielded, 1.8m
B	USB Keyboard Cable	Non-Shielded, 1.8m
C	Modem Cable	Non-Shielded, 1.5m
D	LAN Cable	Non-Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute program “DRTU v1.6.1-556” 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
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Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

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FCC Accreditation Number: TW1014

2. Conducted Emission

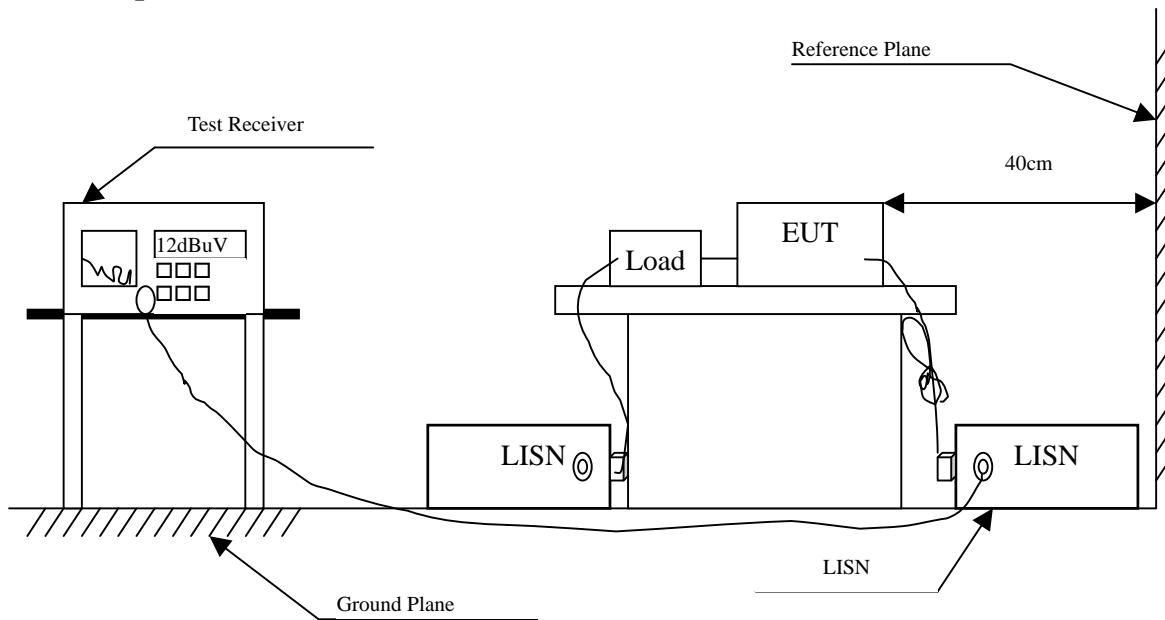
2.1. Test Equipment

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., 2012	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2013	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2013	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2013	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2013	
	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 : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.205	9.790	32.370	42.160	-22.269	64.429
0.318	9.790	25.390	35.180	-26.020	61.200
0.650	9.790	34.800	44.590	-11.410	56.000
1.388	9.800	27.980	37.780	-18.220	56.000
1.720	9.800	26.070	35.870	-20.130	56.000
14.529	10.074	28.800	38.874	-21.126	60.000
Average					
0.205	9.790	23.900	33.690	-20.739	54.429
0.318	9.790	16.390	26.180	-25.020	51.200
0.650	9.790	26.270	36.060	-9.940	46.000
1.388	9.800	17.170	26.970	-19.030	46.000
1.720	9.800	15.410	25.210	-20.790	46.000
14.529	10.074	28.520	38.594	-11.406	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 : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.205	9.770	34.890	44.660	-19.769	64.429
0.521	9.770	27.490	37.260	-18.740	56.000
0.650	9.770	34.990	44.760	-11.240	56.000
1.392	9.780	28.480	38.260	-17.740	56.000
2.123	9.790	25.530	35.320	-20.680	56.000
14.525	10.134	28.820	38.954	-21.046	60.000
Average					
0.205	9.770	24.800	34.570	-19.859	54.429
0.521	9.770	18.050	27.820	-18.180	46.000
0.650	9.770	26.390	36.160	-9.840	46.000
1.392	9.780	17.680	27.460	-18.540	46.000
2.123	9.790	14.490	24.280	-21.720	46.000
14.525	10.134	28.730	38.864	-11.136	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 : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.318	9.790	25.430	35.220	-25.980	61.200
0.634	9.790	34.340	44.130	-11.870	56.000
1.365	9.800	26.890	36.690	-19.310	56.000
1.814	9.810	26.600	36.410	-19.590	56.000
3.255	9.820	20.020	29.840	-26.160	56.000
14.529	10.074	28.700	38.774	-21.226	60.000
Average					
0.318	9.790	16.500	26.290	-24.910	51.200
0.634	9.790	25.470	35.260	-10.740	46.000
1.365	9.800	15.100	24.900	-21.100	46.000
1.814	9.810	15.110	24.920	-21.080	46.000
3.255	9.820	9.200	19.020	-26.980	46.000
14.529	10.074	28.250	38.324	-11.676	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 : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.205	9.770	35.020	44.790	-19.639	64.429
0.322	9.770	24.880	34.650	-26.436	61.086
0.642	9.770	35.070	44.840	-11.160	56.000
0.959	9.780	28.080	37.860	-18.140	56.000
1.400	9.780	28.620	38.400	-17.600	56.000
14.525	10.134	28.940	39.074	-20.926	60.000
Average					
0.205	9.770	24.800	34.570	-19.859	54.429
0.322	9.770	15.690	25.460	-25.626	51.086
0.642	9.770	26.860	36.630	-9.370	46.000
0.959	9.780	16.810	26.590	-19.410	46.000
1.400	9.780	16.580	26.360	-19.640	46.000
14.525	10.134	28.840	38.974	-11.026	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

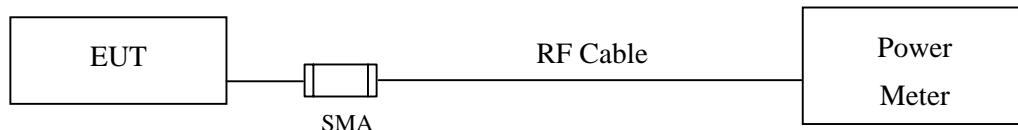
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2012
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2012
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013

Note:

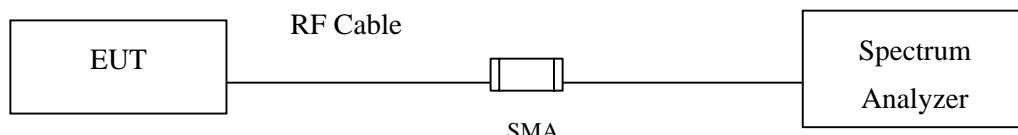
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup

Average Power For different Data Rate (Mbps)



Peak Power Measurement



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 ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : TABLET PC
 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	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	15.36	--	--	--	17.56	<30dBm	Pass
06	2437	15.49	15.31	15.2	15.11	17.67	<30dBm	Pass
11	2462	15.44	--	--	--	17.65	<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
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	15.33	--	--	--	17.51	<30dBm	Pass
06	2437	15.47	15.41	15.35	15.01	17.63	<30dBm	Pass
11	2462	14.41	--	--	--	17.52	<30dBm	Pass

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

Product : TABLET PC
 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	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	14.14	--	--	--	--	--	--	--	20.99	<30dBm	Pass
06	2437	16.48	16.29	16.03	15.89	15.61	15.48	15.30	15.19	21.88	<30dBm	Pass
11	2462	13.97	--	--	--	--	--	--	--	21.01	<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)										
01	2412	13.92	--	--	--	--	--	--	--	20.59	<30dBm	Pass
06	2437	16.48	16.27	16.01	15.87	15.63	15.48	15.31	15.16	21.38	<30dBm	Pass
11	2462	13.95	--	--	--	--	--	--	--	20.42	<30dBm	Pass

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

Product : TABLET PC
 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	16.46	--	--	--	--	--	--	--	21.87	<30dBm	Pass
157	5785	16.45	16.28	16.21	16.15	16.11	15.98	15.82	15.77	21.57	<30dBm	Pass
165	5825	16.5	--	--	--	--	--	--	--	21.04	<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	16.36	--	--	--	--	--	--	--	22.25	<30dBm	Pass
157	5785	16.28	16.14	16.02	15.89	15.62	15.44	15.37	15.22	22.16	<30dBm	Pass
165	5825	16.49	--	--	--	--	--	--	--	22.07	<30dBm	Pass

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

Product : TABLET PC
 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 For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	11.36	--	--	--	--	--	--	--	18.97
06	2437	13.11	12.89	12.67	12.52	12.34	12.25	11.95	11.84	19.99
11	2462	11.39	--	--	--	--	--	--	--	19.12

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
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	11.62	--	--	--	--	--	--	--	19.00
06	2437	13.38	13.13	12.84	12.69	12.43	12.11	12.04	11.99	19.84
11	2462	11.52	--	--	--	--	--	--	--	18.84

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	14.4	18.97	19.00	22.00	<30dBm	Pass
6	2437	14.4	19.99	19.84	22.93	<30dBm	Pass
11	2462	14.4	19.12	18.84	21.99	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \times \log_{10} (\text{Chain A (mW)} + \text{Chain B (mW)})$

Product : TABLET PC
 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)								
3	2422	8.20	--	--	--	--	--	--	--	17.06
6	2437	13.01	12.89	12.77	12.69	12.61	12.21	12.11	11.88	20.21
9	2452	8.28	--	--	--	--	--	--	--	17.22

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)								
3	2422	8.5	--	--	--	--	--	--	--	16.30
6	2437	13.22	12.84	12.65	12.23	12.14	11.98	11.84	11.63	19.70
9	2452	8.54	--	--	--	--	--	--	--	16.70

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
3	2422	30	17.06	16.30	19.71	<30dBm	Pass
6	2437	30	20.21	19.70	22.97	<30dBm	Pass
9	2452	30	17.22	16.70	19.98	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \times \log (\text{Chain A (mW)} + \text{Chain B (mW)})$

Product : TABLET PC
 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 For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
149	5745	13.36	--	--	--	--	--	--	--	20.35
157	5785	13.44	13.33	13.27	13.15	13.04	12.91	12.74	12.63	20.20
165	5825	13.45	--	--	--	--	--	--	--	19.65

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
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
149	5745	13.43	--	--	--	--	--	--	--	20.44
157	5785	13.47	13.22	13.13	13.08	12.97	12.88	12.67	12.54	20.43
165	5825	13.49	--	--	--	--	--	--	--	20.40

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	14.4	20.35	20.44	23.41	<30dBm	Pass
157	5785	14.4	20.20	20.43	23.33	<30dBm	Pass
165	5825	14.4	19.65	20.40	23.05	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \times \log (\text{Chain A (mW)} + \text{Chain B (mW)})$

Product : TABLET PC
 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	13.49	--	--	--	--	--	--	--	20.57
159	5795	13.43	13.2	13.14	13.05	12.84	12.75	12.68	12.51	20.35

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	13.48	--	--	--	--	--	--	--	20.58
159	5795	13.48	13.31	13.24	13.19	13.06	12.89	12.8	12.76	20.64

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
151	5755	30	20.57	20.58	23.59	<30dBm	Pass
159	5795	30	20.35	20.64	23.51	<30dBm	Pass

Note: Peak Power Output Value (dBm) = $10 \times \log_{10} (\text{Chain A (mW}) + \text{Chain B (mW)})$

4. Radiated Emission

4.1. Test Equipment

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

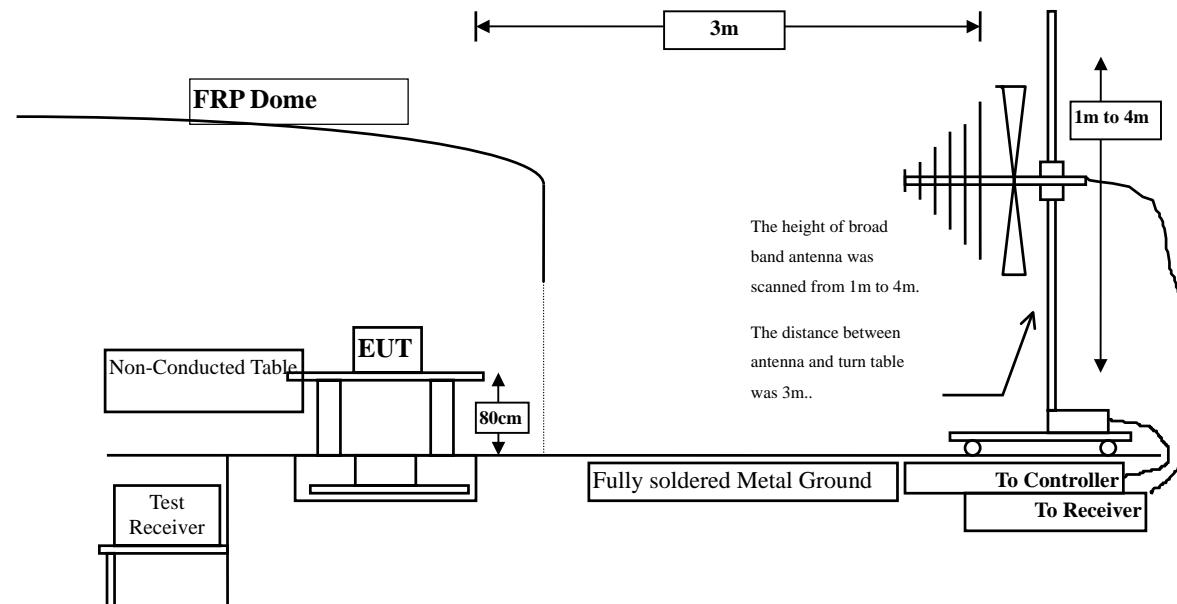
Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	X Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
	X Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
	X Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
	X Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
	X Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2013
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2012
	X Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2013
	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.

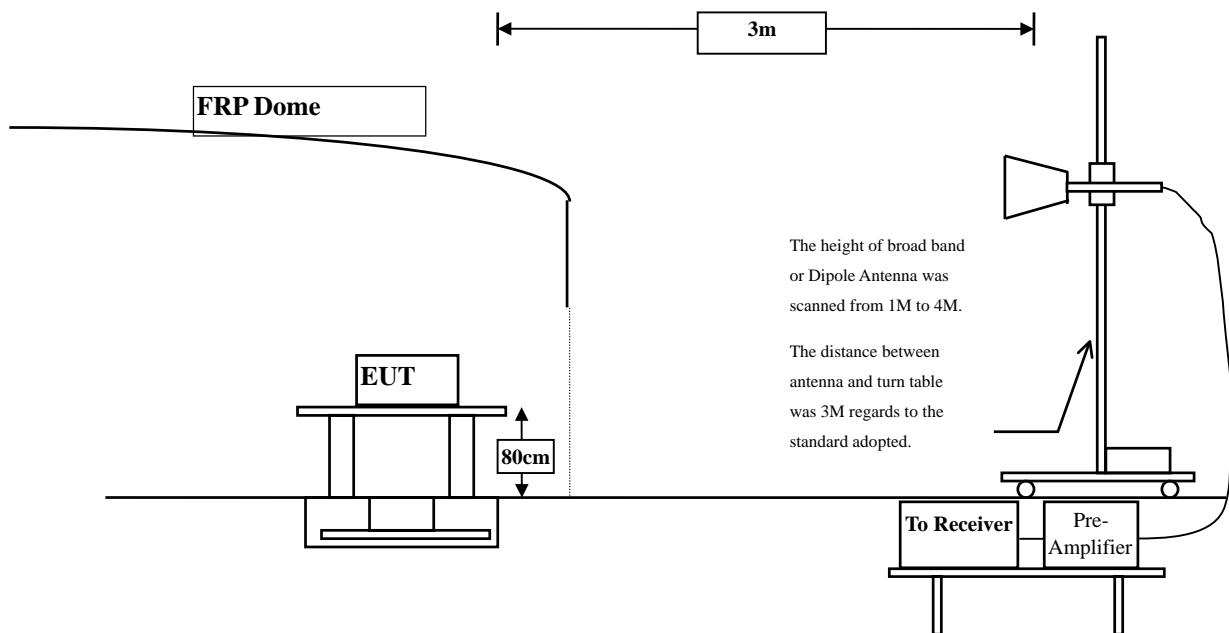
2. The test instruments marked with “X” are used to measure the final test results.

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 C63.10, 2009 and tested according to DTS test procedure of ANSI C63.10: 2009 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 : TABLET PC
 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:					
4824.000	3.261	38.520	41.781	-32.219	74.000
7236.000	10.650	38.050	48.700	-25.300	74.000
9648.000	13.337	36.760	50.096	-23.904	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	39.950	46.371	-27.629	74.000
7236.000	11.495	37.250	48.745	-25.255	74.000
9648.000	13.807	37.800	51.606	-22.394	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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.000	3.038	41.700	44.737	-29.263	74.000
7311.000	11.795	35.950	47.744	-26.256	74.000
9748.000	12.635	37.240	49.875	-24.125	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	5.812	40.760	46.571	-27.429	74.000
7311.000	12.630	36.390	49.019	-24.981	74.000
9748.000	13.126	37.010	50.136	-23.864	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 : TABLET PC
 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
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Horizontal

Peak Detector:

4924.000	2.858	41.580	44.437	-29.563	74.000
7386.000	12.127	35.830	47.958	-26.042	74.000
9848.000	12.852	36.960	49.813	-24.187	74.000

Average Detector:

--

Vertical

Peak Detector:

4924.000	5.521	42.330	47.850	-26.150	74.000
7386.000	13.254	35.490	48.744	-25.256	74.000
9848.000	13.367	37.470	50.837	-23.163	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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2412MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4824.000	3.261	39.590	42.851	-31.149	74.000
7236.000	10.650	37.280	47.930	-26.070	74.000
9648.000	13.337	36.840	50.176	-23.824	74.000

Average

Detector:

--

Vertical

Peak Detector:

4824.000	6.421	38.810	45.231	-28.769	74.000
7236.000	11.495	36.910	48.405	-25.595	74.000
9648.000	13.807	36.510	50.316	-23.684	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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.000	3.038	46.320	49.357	-24.643	74.000
7311.000	11.795	36.180	47.974	-26.026	74.000
9748.000	12.635	37.670	50.305	-23.695	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	5.812	44.660	50.471	-23.529	74.000
7311.000	12.630	35.910	48.539	-25.461	74.000
9748.000	13.126	37.730	50.856	-23.144	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 : TABLET PC
 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	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
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Horizontal

Peak Detector:

4924.000	2.858	40.640	43.497	-30.503	74.000
7386.000	12.127	35.930	48.058	-25.942	74.000
9848.000	12.852	36.820	49.673	-24.327	74.000

Average

Detector:

--

Vertical

Peak Detector:

4924.000	5.521	-40.540	-35.020	-109.020	74.000
7386.000	13.254	36.070	49.324	-24.676	74.000
9848.000	13.367	37.130	50.497	-23.503	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 : TABLET PC
 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:					
11490.000	17.106	42.100	59.207	-14.793	74.000
Average Detector:					
11490.000	17.106	27.320	44.427	-9.573	54.000
Vertical					
Peak Detector:					
11490.000	18.034	40.670	58.705	-15.295	74.000
Average Detector:					
11490.000	18.034	25.190	43.225	-10.775	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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

11570.000	16.809	40.090	56.899	-17.101	74.000
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Average

Detector:

11570.000	16.809	25.940	42.749	-11.251	54.000
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Vertical

Peak Detector:

11570.000	17.698	39.260	56.958	-17.042	74.000
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Average

Detector:

11570.000	17.698	24.700	42.398	-11.602	54.000
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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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5825 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

11650.000	16.158	39.030	55.188	-18.812	74.000
-----------	--------	--------	--------	---------	--------

Average

Detector:

11650.000	16.158	25.220	41.378	-12.622	54.000
-----------	--------	--------	--------	---------	--------

Vertical

Peak Detector:

11650.000	17.274	37.560	54.835	-19.165	74.000
-----------	--------	--------	--------	---------	--------

Average

Detector:

11650.000	17.274	24.150	41.425	-12.575	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4824.000	3.261	43.220	46.481	-27.519	74.000
7236.000	10.650	37.240	47.890	-26.110	74.000
9648.000	13.337	36.580	49.916	-24.084	74.000

Average

Detector:

--

Vertical

Peak Detector:

4824.000	6.421	41.900	48.321	-25.679	74.000
7236.000	11.495	37.310	48.805	-25.195	74.000
9648.000	13.807	36.610	50.416	-23.584	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.000	3.038	44.730	47.767	-26.233	74.000
7311.000	11.795	36.800	48.594	-25.406	74.000
9748.000	12.635	37.210	49.845	-24.155	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	5.812	45.100	50.911	-23.089	74.000
7311.000	12.630	36.100	48.729	-25.271	74.000
9748.000	13.126	36.940	50.066	-23.934	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 : TABLET PC
 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	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
------------------	-------------------	------------------------	--------------------------------	--------------	-----------------

Horizontal

Peak Detector:

4924.000	2.858	41.390	44.247	-29.753	74.000
7386.000	12.127	35.700	47.828	-26.172	74.000
9848.000	12.852	37.340	50.193	-23.807	74.000

Average Detector:

--

Vertical

Peak Detector:

4924.000	5.521	41.990	47.510	-26.490	74.000
7386.000	13.254	35.890	49.144	-24.856	74.000
9848.000	13.367	37.440	50.807	-23.193	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4844.000	3.171	38.480	41.651	-32.349	74.000
7266.000	11.162	36.700	47.862	-26.138	74.000
9688.000	12.964	37.580	50.545	-23.455	74.000

Average

Detector:

--

Vertical

Peak Detector:

4844.000	6.178	38.470	44.648	-29.352	74.000
7266.000	11.982	36.930	48.912	-25.088	74.000
9688.000	13.507	36.770	50.278	-23.722	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.000	3.038	43.970	47.007	-26.993	74.000
7311.000	11.795	36.630	48.424	-25.576	74.000
9748.000	12.635	37.100	49.735	-24.265	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	5.812	43.630	49.441	-24.559	74.000
7311.000	12.630	36.380	49.009	-24.991	74.000
9748.000	13.126	37.180	50.306	-23.694	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4904.000	2.914	38.150	41.065	-32.935	74.000
7356.000	11.995	36.050	48.044	-25.956	74.000
9808.000	12.475	37.180	49.655	-24.345	74.000

Average

Detector:

--

Vertical

Peak Detector:

4904.000	5.530	37.750	43.281	-30.719	74.000
7356.000	13.005	35.950	48.954	-25.046	74.000
9808.000	12.901	37.120	50.021	-23.979	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 : TABLET PC
 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	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
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Horizontal**Peak Detector:**

11490.000	17.106	39.640	56.747	-17.253	74.000
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Average**Detector:**

11490.000	17.106	23.900	41.007	-12.993	54.000
-----------	--------	--------	--------	---------	--------

Vertical**Peak Detector:**

11490.000	18.034	35.840	53.875	-20.125	74.000
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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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

11570.000	16.809	36.280	53.089	-20.911	74.000
-----------	--------	--------	--------	---------	--------

Average

Detector:

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Vertical

Peak Detector:

11570.000	17.698	36.180	53.878	-20.122	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 : TABLET PC
 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	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
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Horizontal

Peak Detector:

11650.000	16.158	35.450	51.608	-22.392	74.000
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Average Detector:

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Vertical

Peak Detector:

11650.000	17.274	35.810	53.085	-20.915	74.000
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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 : TABLET PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

11510.000	17.124	36.740	53.864	-20.136	74.000
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Average

Detector:

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Vertical

Peak Detector:

11510.000	18.081	35.790	53.871	-20.129	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

11590.000	16.701	34.970	51.670	-22.330	74.000
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Average

Detector:

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Vertical

Peak Detector:

11590.000	17.567	35.270	52.836	-21.164	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 : TABLET PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
365.620	-1.329	32.400	31.071	-14.929	46.000
456.800	-0.067	31.434	31.367	-14.633	46.000
623.640	1.959	30.509	32.468	-13.532	46.000
720.640	3.511	30.261	33.772	-12.228	46.000
817.640	5.532	26.852	32.384	-13.616	46.000
961.200	6.450	28.814	35.264	-18.736	54.000
Vertical					
103.720	-0.151	31.513	31.361	-12.139	43.500
381.140	-1.558	24.736	23.178	-22.822	46.000
623.640	-2.631	30.006	27.375	-18.625	46.000
745.860	1.828	26.477	28.305	-17.695	46.000
912.700	1.762	27.119	28.881	-17.119	46.000
961.200	7.260	26.297	33.557	-20.443	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 : TABLET PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
456.800	-0.067	29.274	29.207	-16.793	46.000
623.640	1.959	30.438	32.397	-13.603	46.000
720.640	3.511	28.493	32.004	-13.996	46.000
817.640	5.532	26.076	31.608	-14.392	46.000
912.700	6.132	27.457	33.589	-12.411	46.000
961.200	6.450	29.544	35.994	-18.006	54.000
Vertical					
103.720	-0.151	29.354	29.202	-14.298	43.500
386.960	-3.064	31.704	28.640	-17.360	46.000
528.580	-0.462	27.643	27.181	-18.819	46.000
720.640	-0.099	28.180	28.081	-17.919	46.000
804.060	3.587	24.322	27.909	-18.091	46.000
961.200	7.260	28.731	35.991	-18.009	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 : TABLET PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785MHz)

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
375.320	-1.209	31.432	30.223	-15.777	46.000
600.360	3.977	33.843	37.820	-8.180	46.000
720.640	3.511	30.738	34.249	-11.751	46.000
817.640	5.532	27.970	33.502	-12.498	46.000
912.700	6.132	26.853	32.985	-13.015	46.000
961.200	6.450	29.085	35.535	-18.465	54.000
Vertical					
115.360	-2.630	31.909	29.279	-14.221	43.500
181.320	-9.512	37.474	27.962	-15.538	43.500
454.860	-5.499	31.460	25.960	-20.040	46.000
600.360	-2.833	26.802	23.969	-22.031	46.000
806.000	3.908	23.688	27.596	-18.404	46.000
961.200	7.260	26.273	33.533	-20.467	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
464.560	0.526	30.411	30.937	-15.063	46.000
623.640	1.959	31.043	33.002	-12.998	46.000
720.640	3.511	30.957	34.468	-11.532	46.000
817.640	5.532	27.344	32.876	-13.124	46.000
912.700	6.132	26.068	32.200	-13.800	46.000
961.200	6.450	29.175	35.625	-18.375	54.000
Vertical					
99.840	-0.021	26.684	26.663	-16.837	43.500
365.620	-2.179	26.047	23.868	-22.132	46.000
528.580	-0.462	24.076	23.614	-22.386	46.000
691.540	2.421	23.427	25.848	-20.152	46.000
821.520	3.381	24.020	27.401	-18.599	46.000
961.200	7.260	25.797	33.057	-20.943	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
369.500	-1.098	30.036	28.938	-17.062	46.000
462.620	1.172	29.698	30.870	-15.130	46.000
623.640	1.959	30.437	32.396	-13.604	46.000
720.640	3.511	29.525	33.036	-12.964	46.000
817.640	5.532	26.742	32.274	-13.726	46.000
961.200	6.450	29.067	35.517	-18.483	54.000
Vertical					
103.720	-0.151	28.556	28.404	-15.096	43.500
161.920	-6.696	31.315	24.620	-18.880	43.500
381.140	-1.558	29.434	27.876	-18.124	46.000
720.640	-0.099	29.700	29.601	-16.399	46.000
745.860	1.828	27.759	29.587	-16.413	46.000
961.200	7.260	28.399	35.659	-18.341	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 : TABLET PC
 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	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
386.960	-1.524	31.761	30.237	-15.763	46.000
503.360	0.138	34.278	34.416	-11.584	46.000
623.640	1.959	30.897	32.856	-13.144	46.000
720.640	3.511	29.655	33.166	-12.834	46.000
817.640	5.532	27.299	32.831	-13.169	46.000
961.200	6.450	28.641	35.091	-18.909	54.000
Vertical					
57.160	-4.403	31.791	27.388	-12.612	40.000
377.260	-1.765	24.722	22.957	-23.043	46.000
503.360	-0.852	26.209	25.357	-20.643	46.000
600.360	-2.833	26.223	23.390	-22.610	46.000
753.620	3.187	24.379	27.566	-18.434	46.000
961.200	7.260	25.236	32.496	-21.504	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 : TABLET PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
369.500	-1.098	30.933	29.835	-16.165	46.000
551.860	2.714	31.163	33.877	-12.123	46.000
697.360	3.171	29.674	32.845	-13.155	46.000
817.640	5.532	27.824	33.356	-12.644	46.000
864.200	5.671	27.226	32.897	-13.103	46.000
961.200	6.450	28.828	35.278	-18.722	54.000
Vertical					
62.980	-5.003	35.435	30.432	-9.568	40.000
454.860	-5.499	32.132	26.632	-19.368	46.000
600.360	-2.833	31.369	28.536	-17.464	46.000
697.360	1.311	27.972	29.283	-16.717	46.000
817.640	3.272	27.169	30.441	-15.559	46.000
961.200	7.260	24.793	32.053	-21.947	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

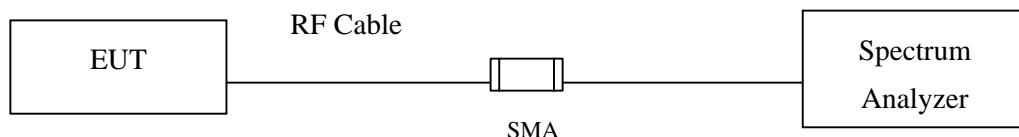
5.1. Test Equipment

	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., 2013

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 ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

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

5.5. Uncertainty

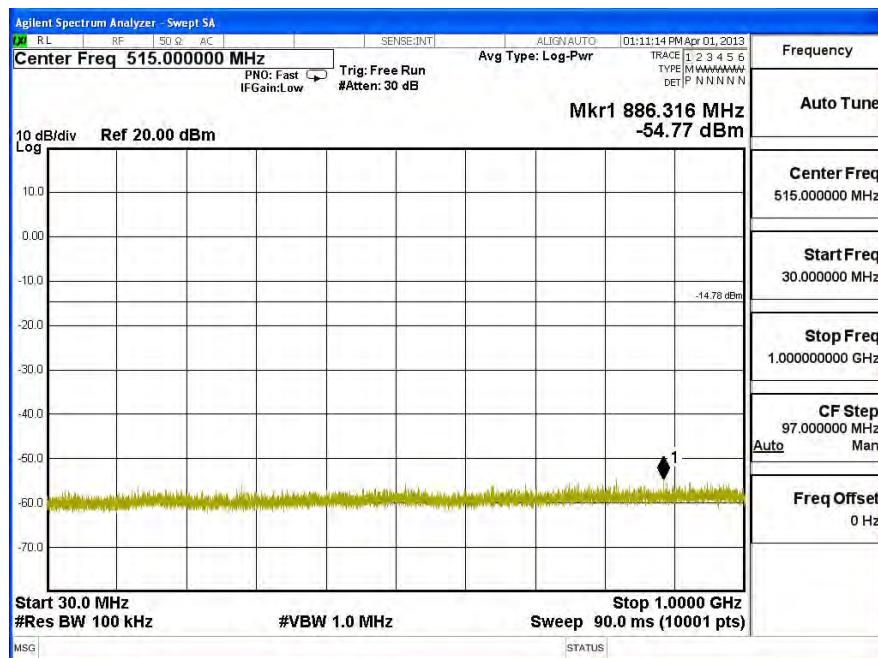
The measurement uncertainty

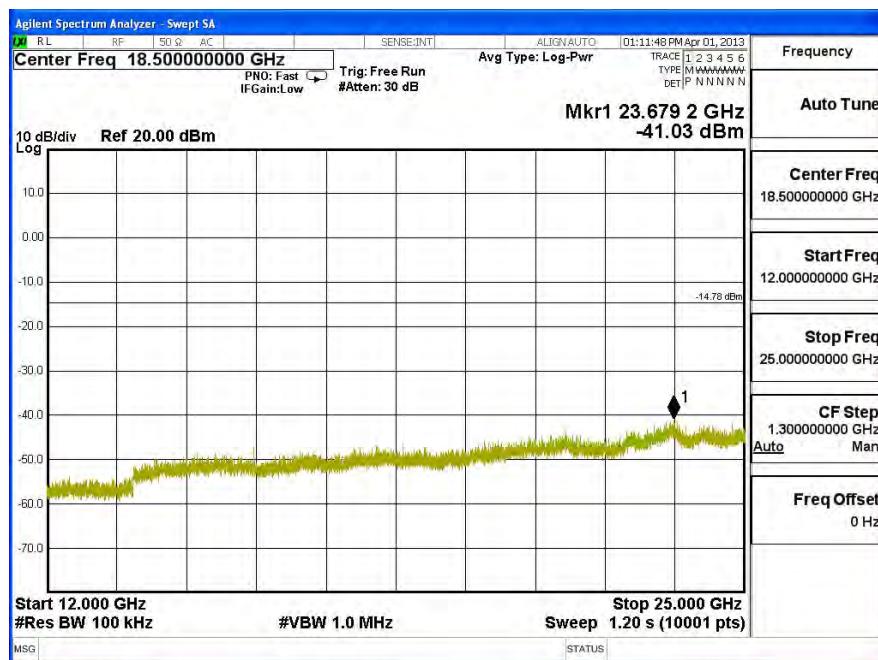
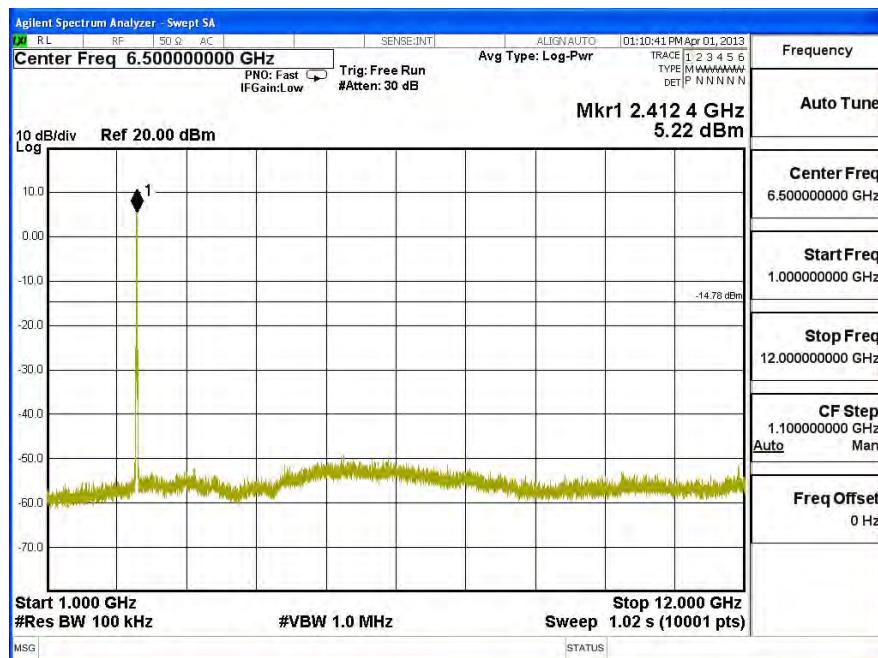
Conducted is defined as \pm 1.27dB

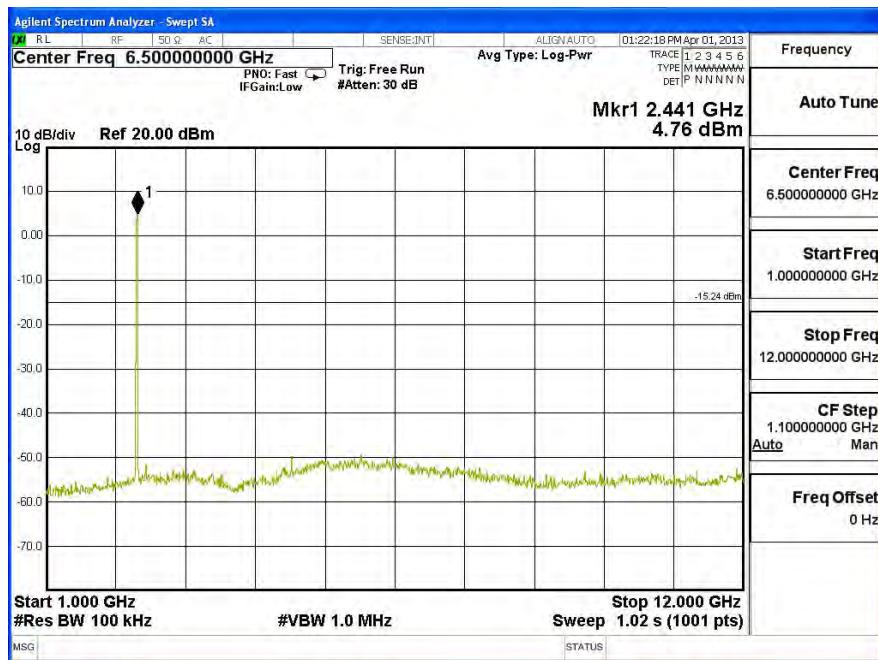
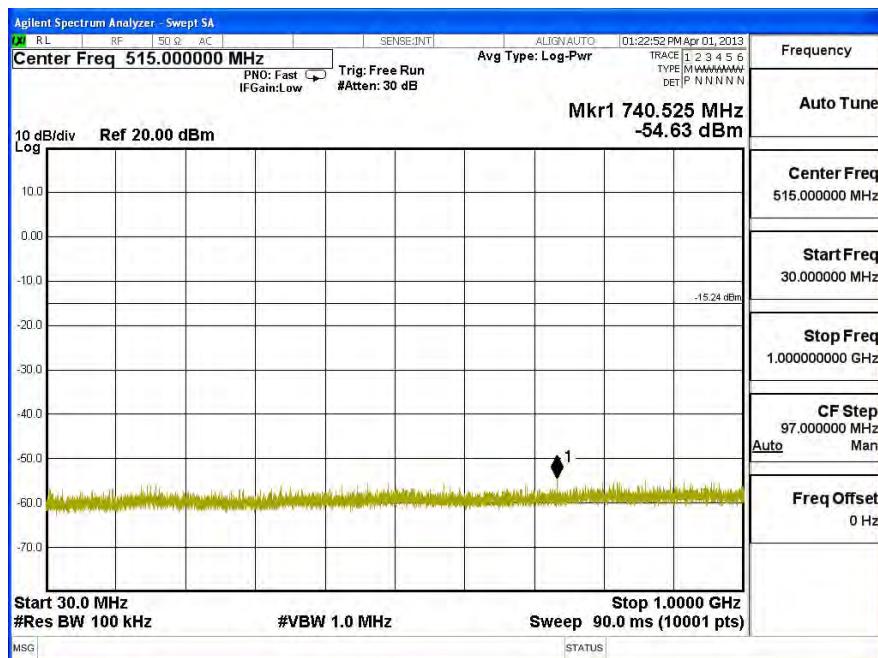
5.6. Test Result of RF antenna conducted test

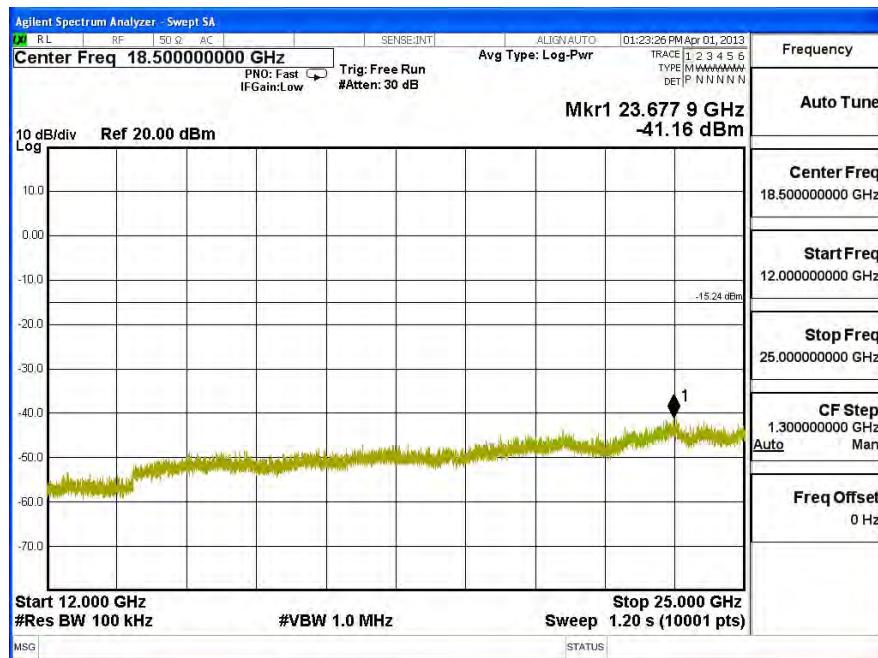
Product : TABLET PC
 Test Item : RF antenna conducted test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

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

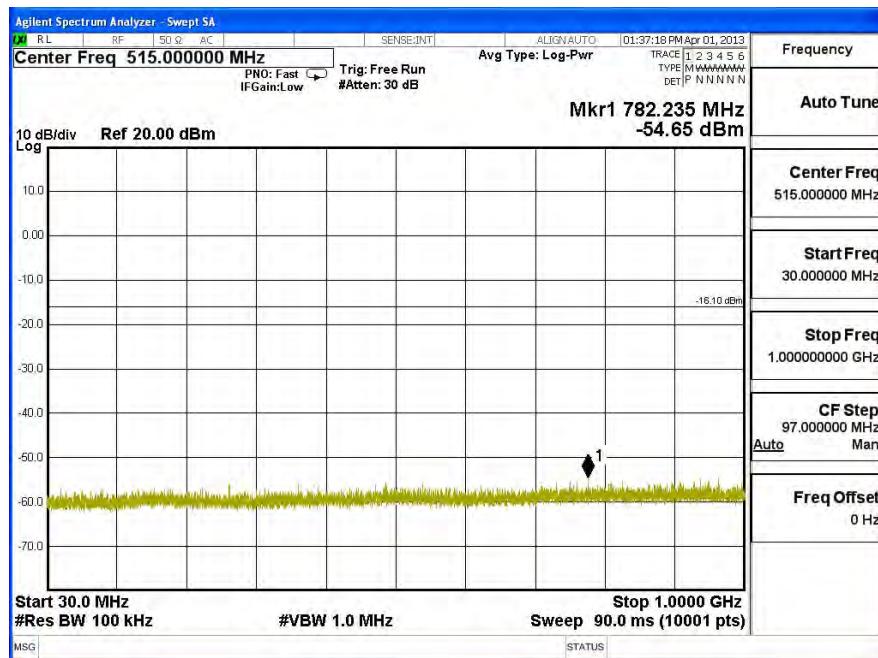


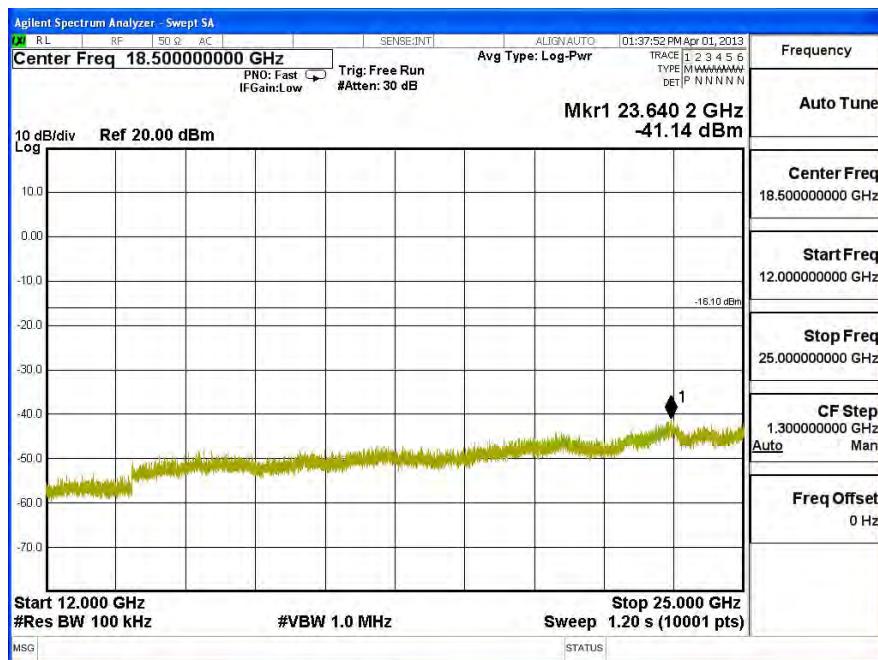
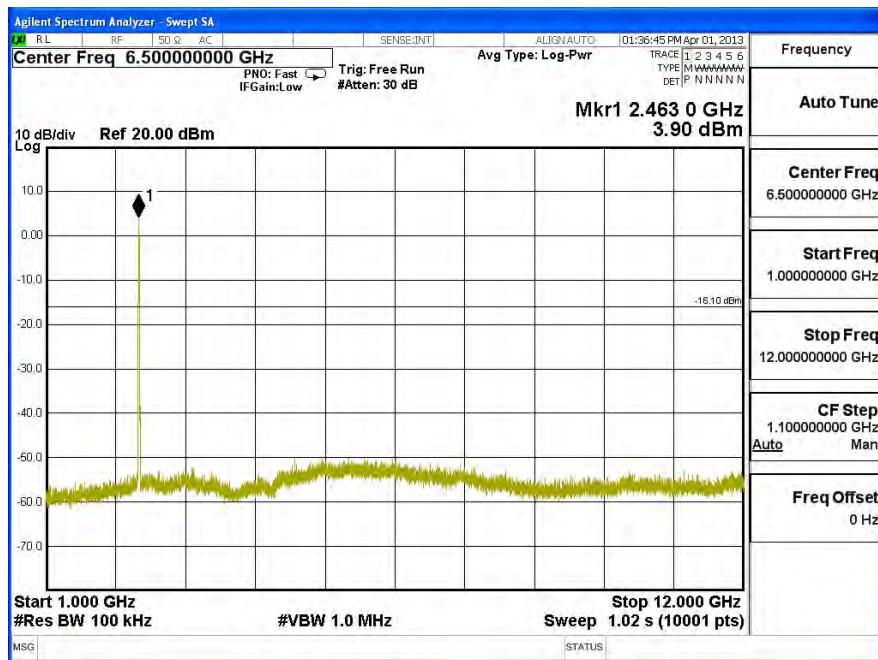


Channel 06 (2437MHz) 30MHz -25GHz-Chain A




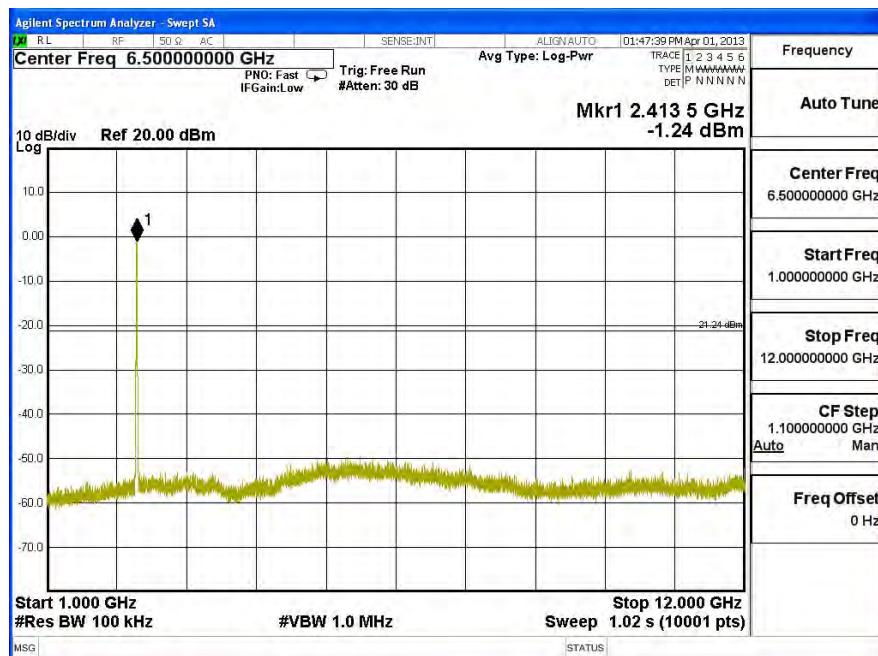
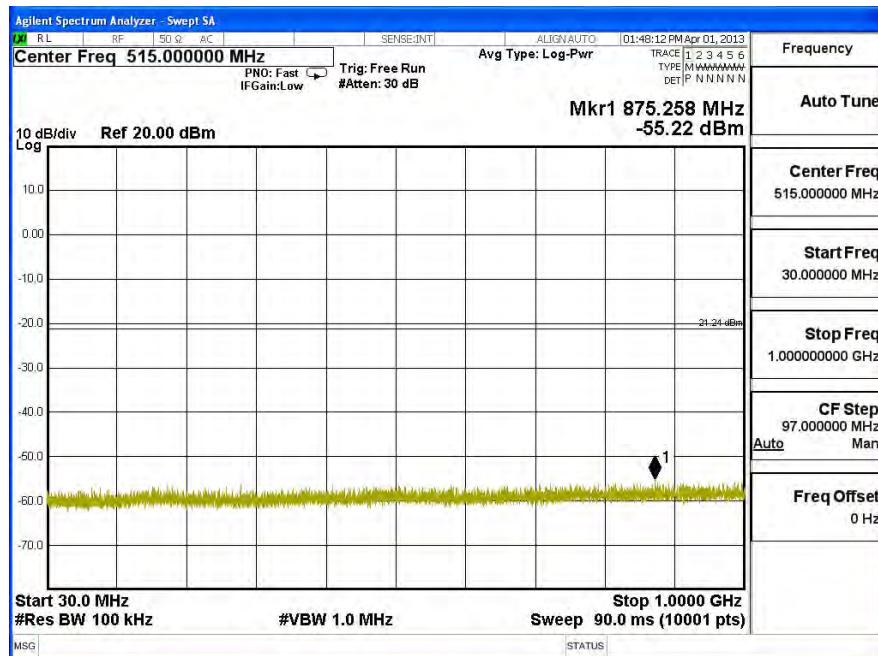
Channel 11 (2462MHz) 30MHz -25GHz-Chain A

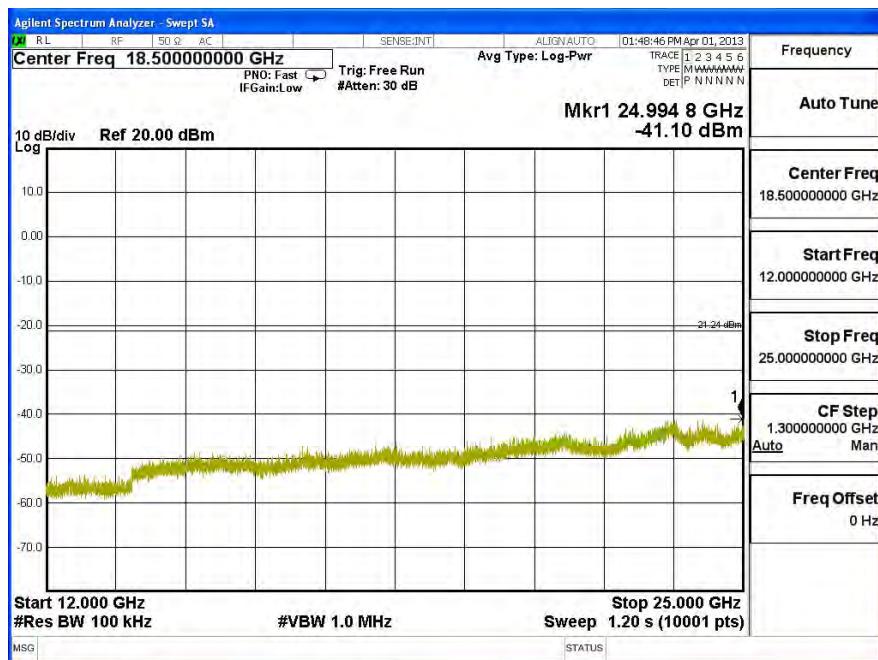


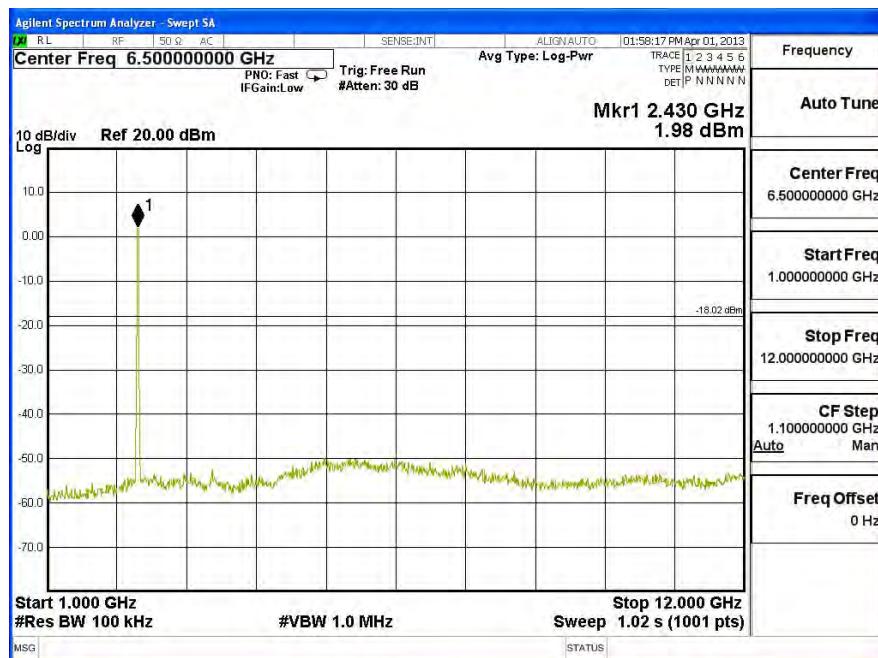
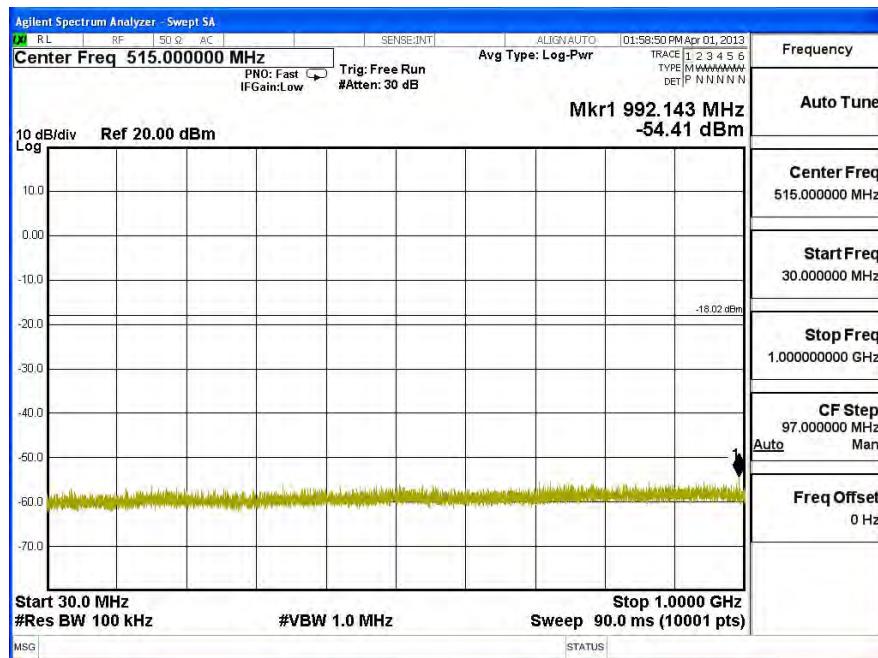


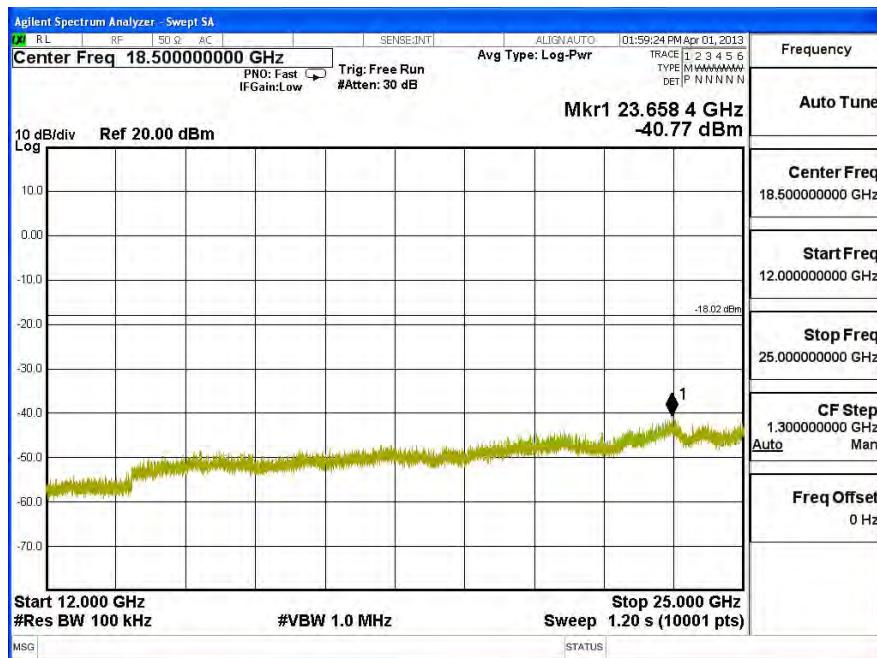
Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

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

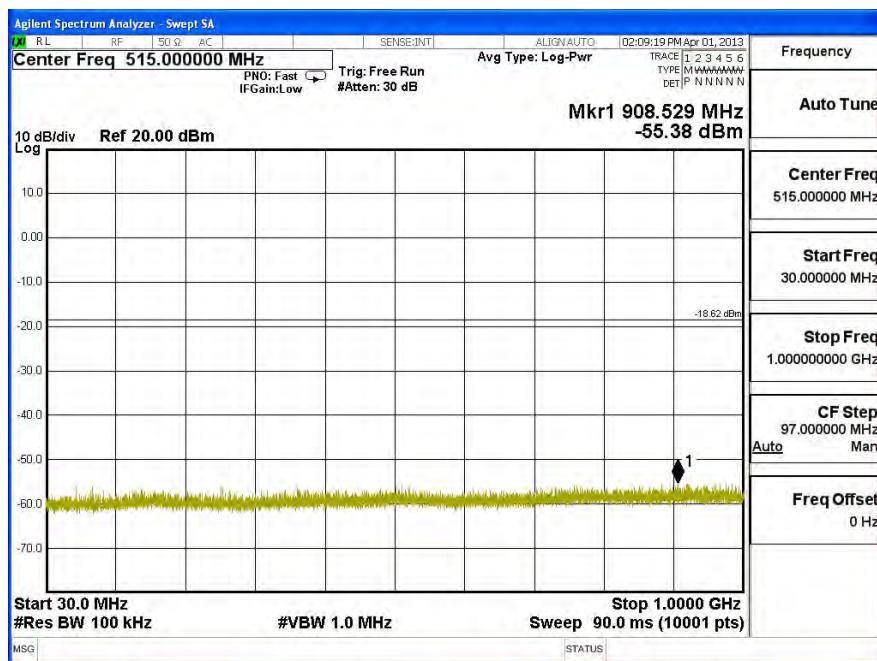


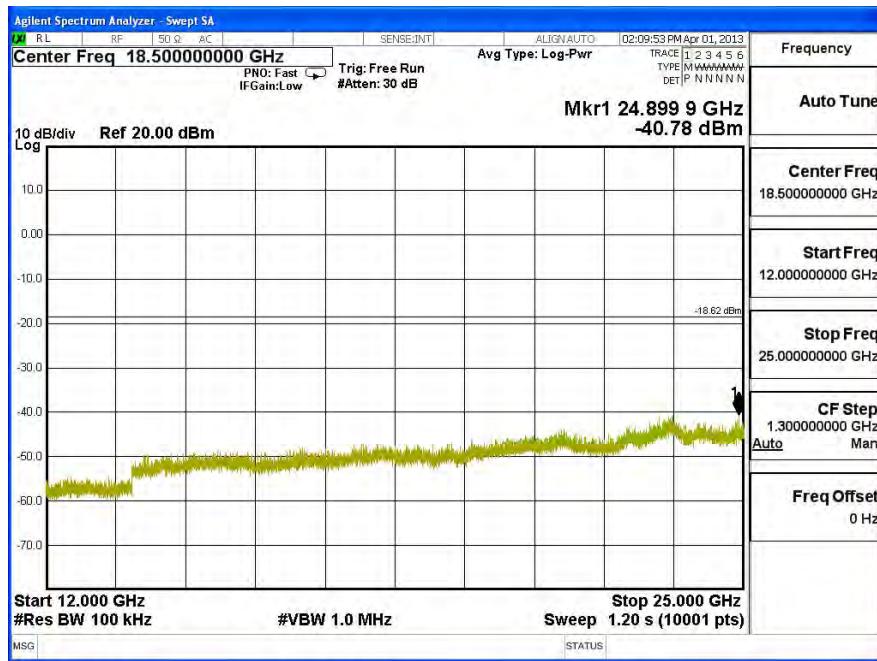
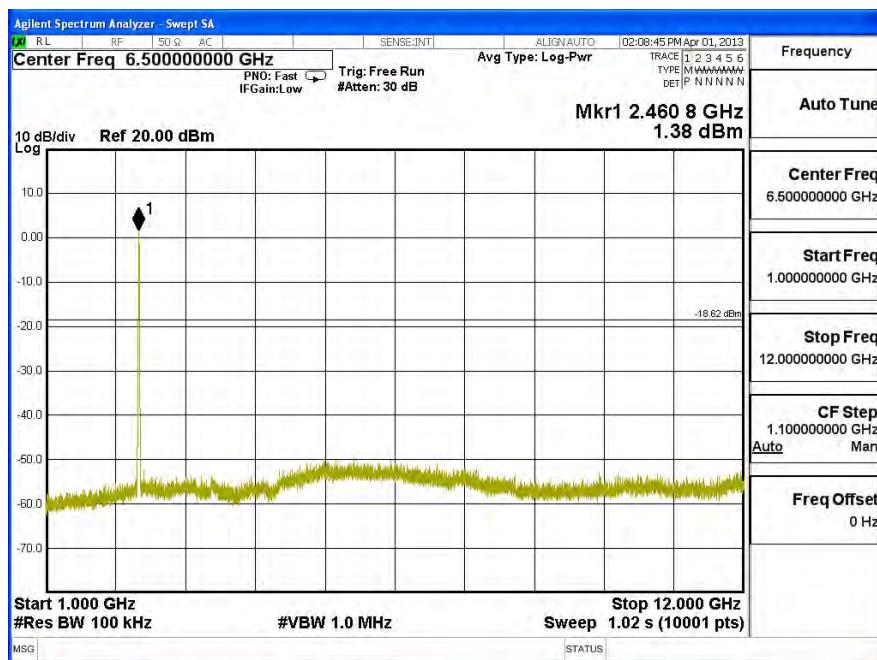


Channel 06 (2437MHz) 30MHz -25GHz-Chain A




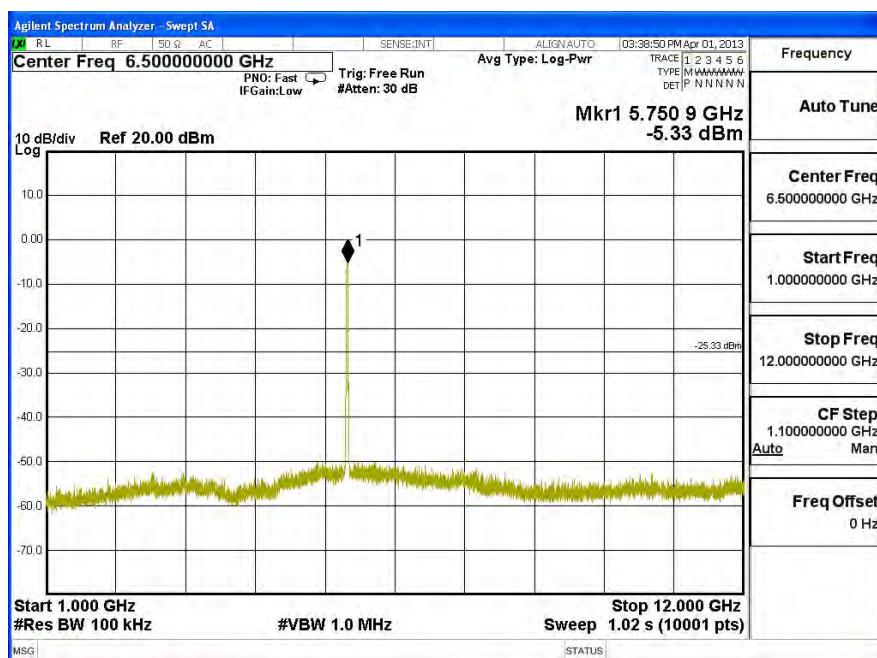
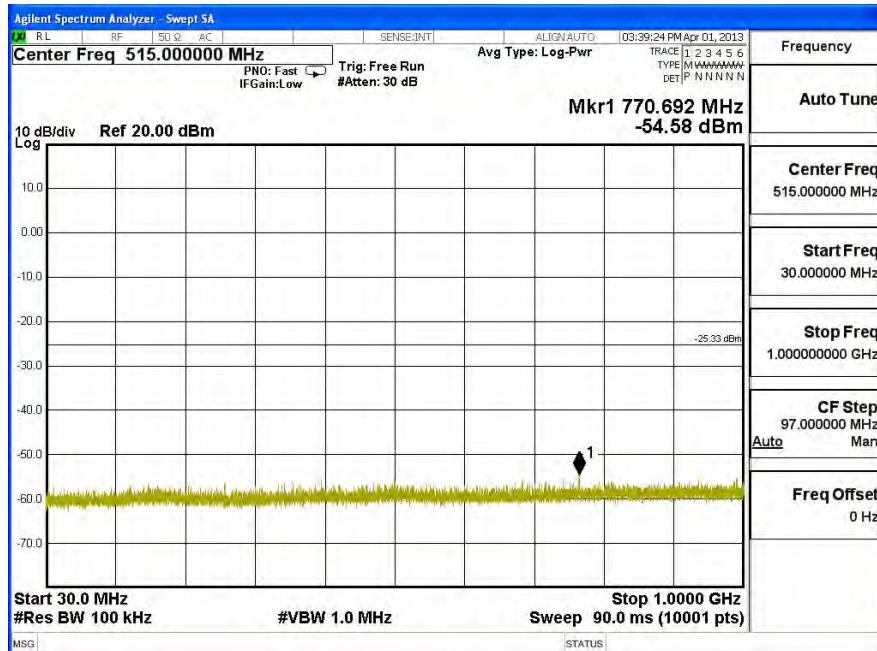
Channel 11 (2462MHz) 30MHz -25GHz-Chain A

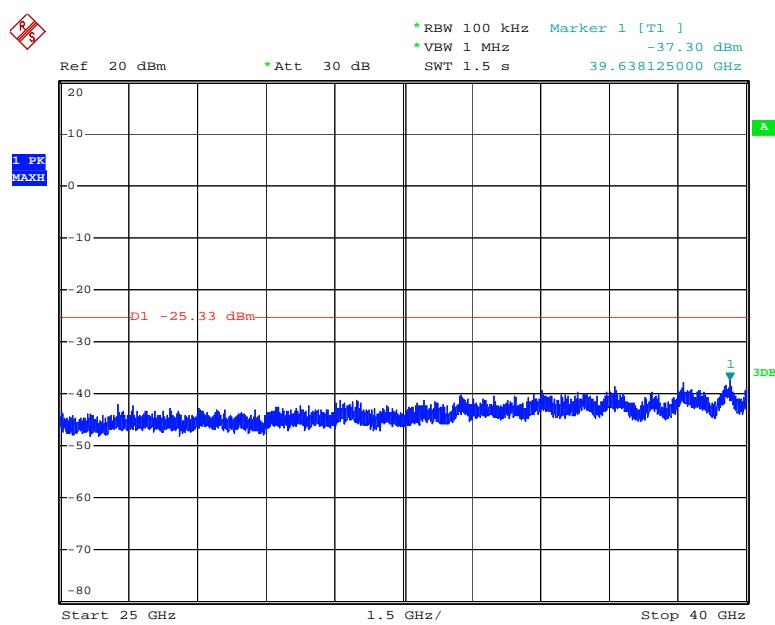
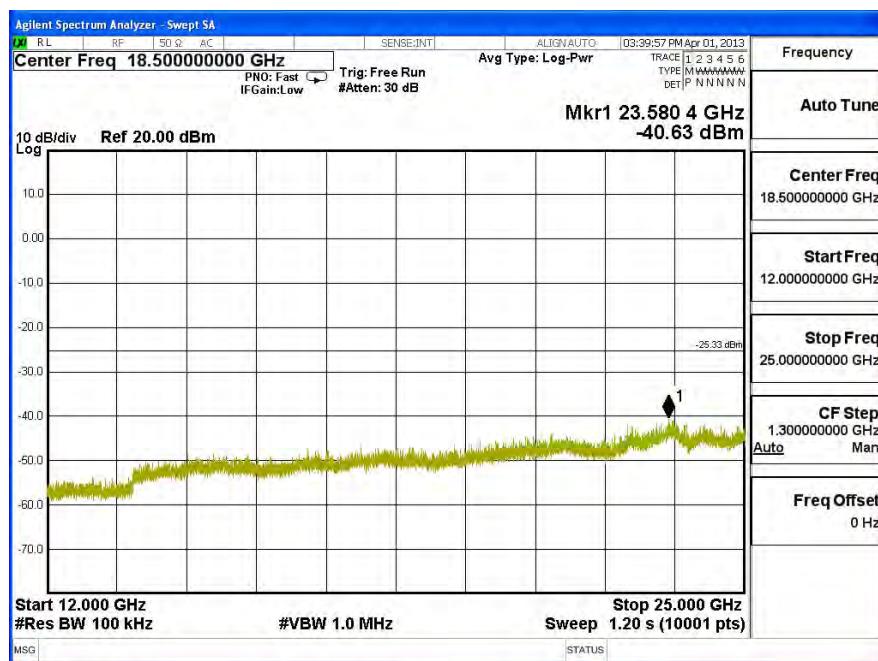




Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

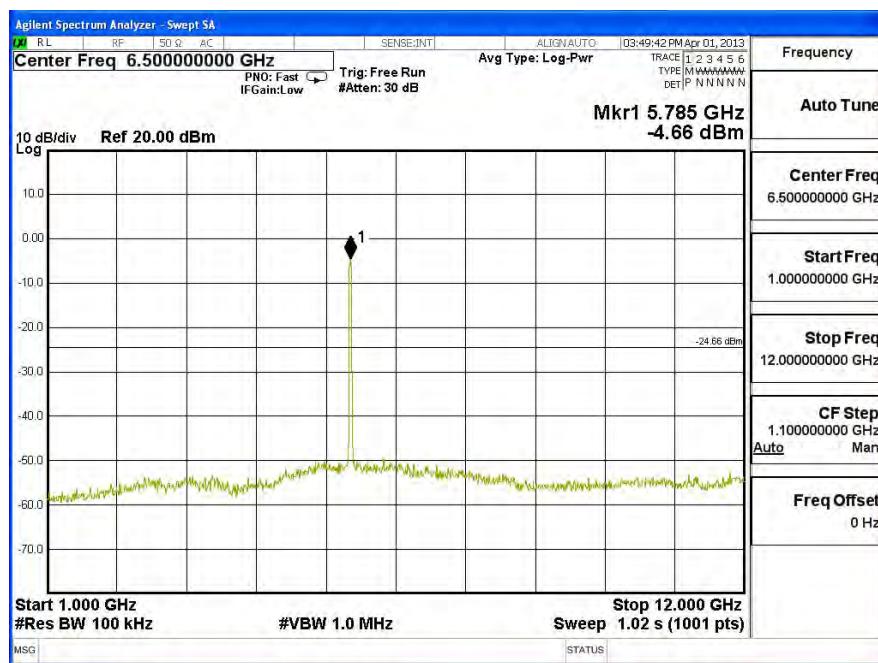
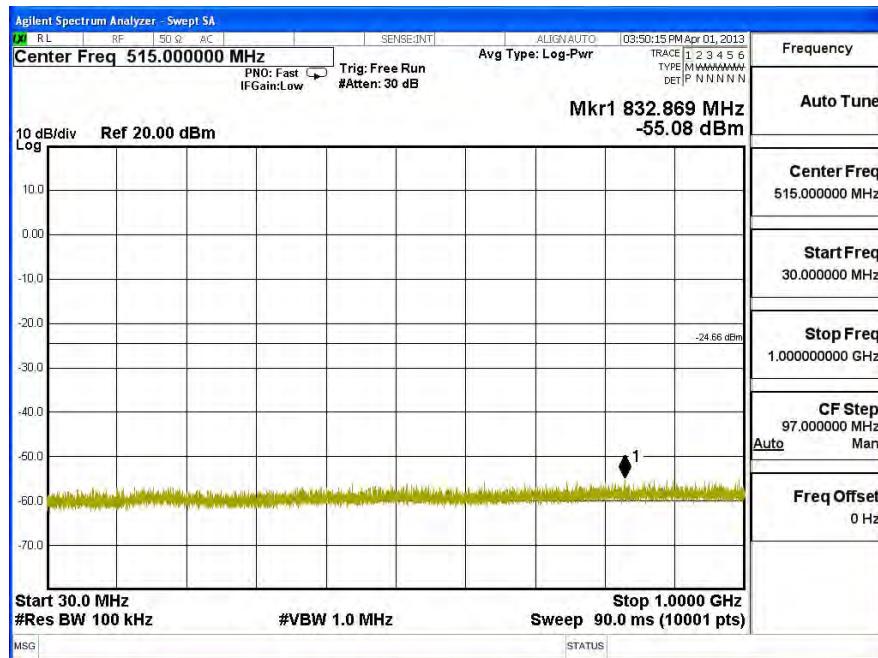
Channel 149 (5745MHz) 30MHz -40GHz-Chain B

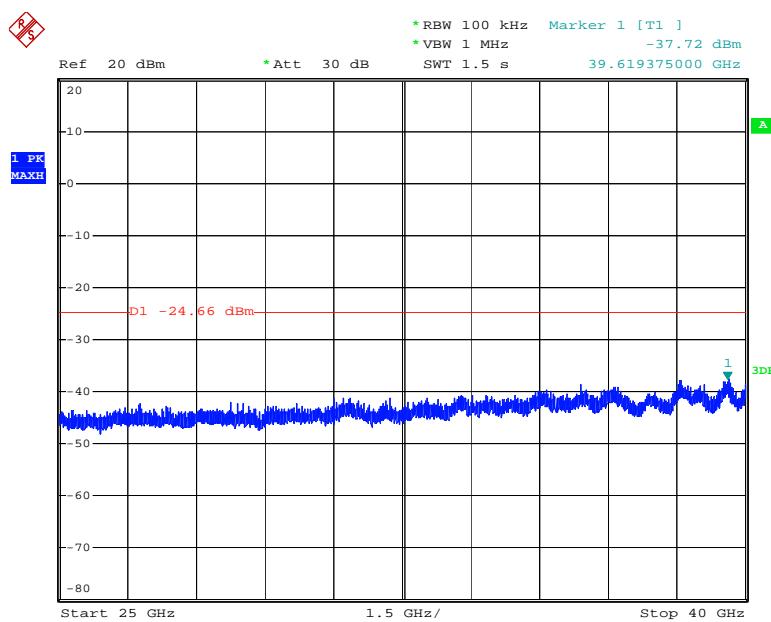
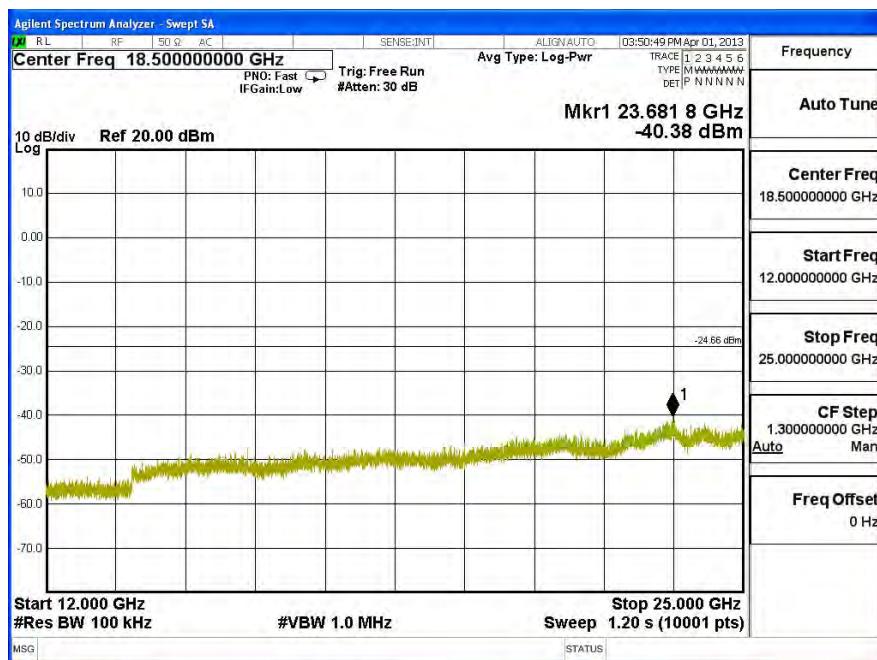




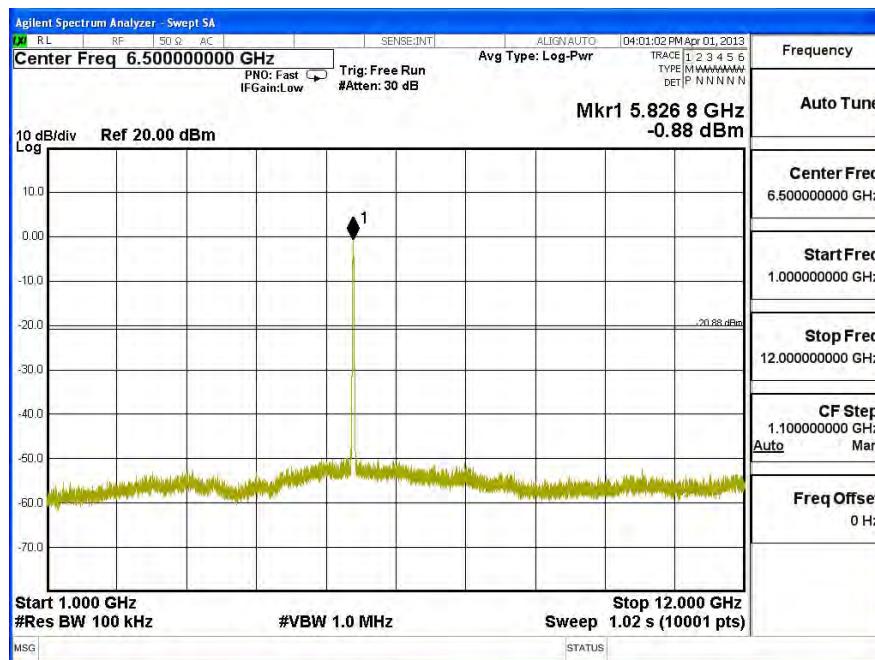
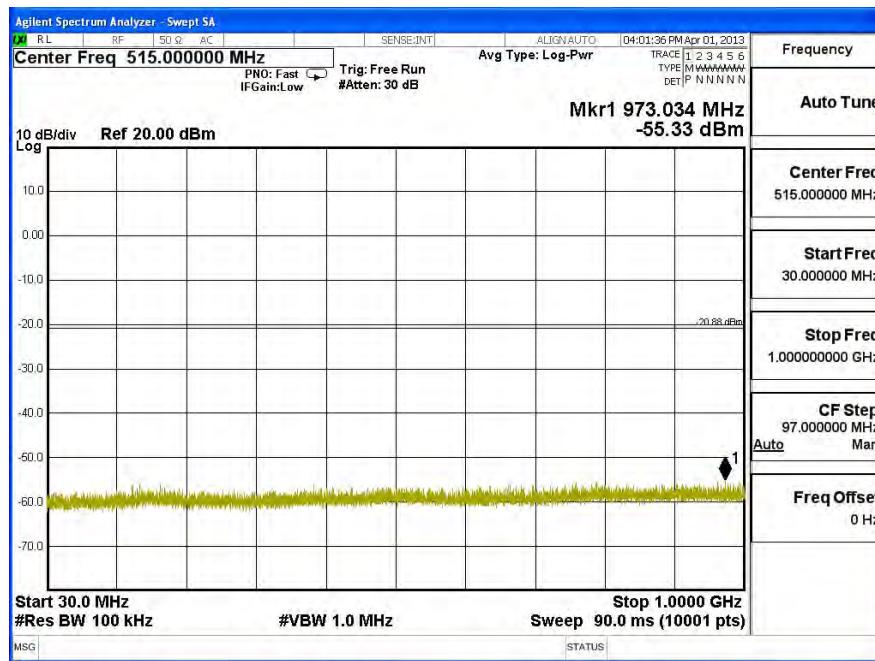
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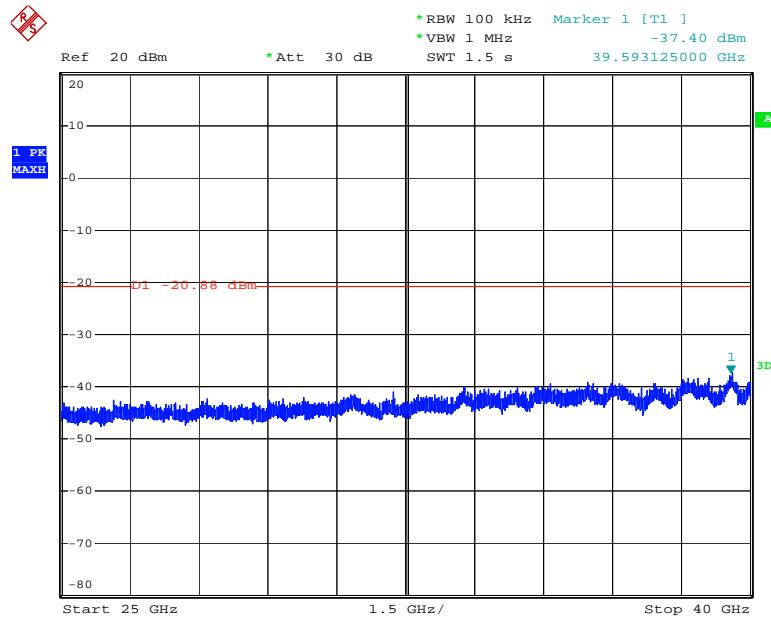
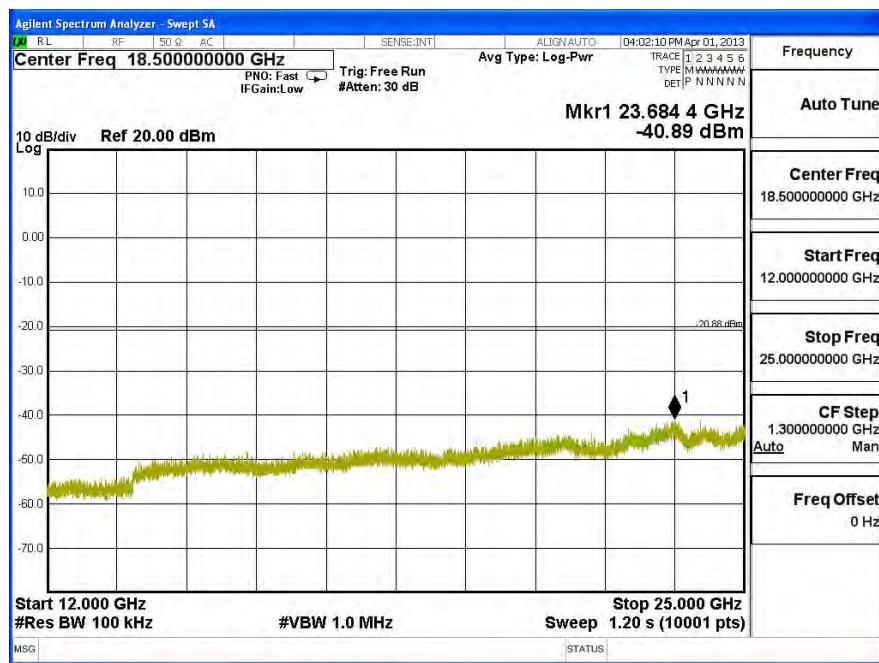
Channel 157 (5785MHz) 30MHz -40GHz-Chain B





Date: 21.FEB.2003 20:10:51

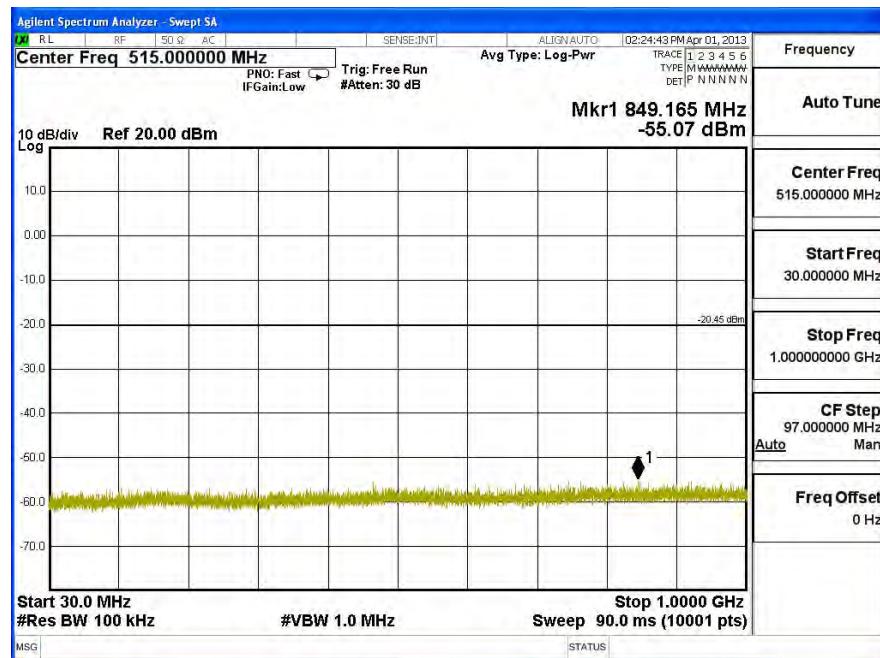
Channel 165 (5825MHz) 30MHz -40GHz-Chain B


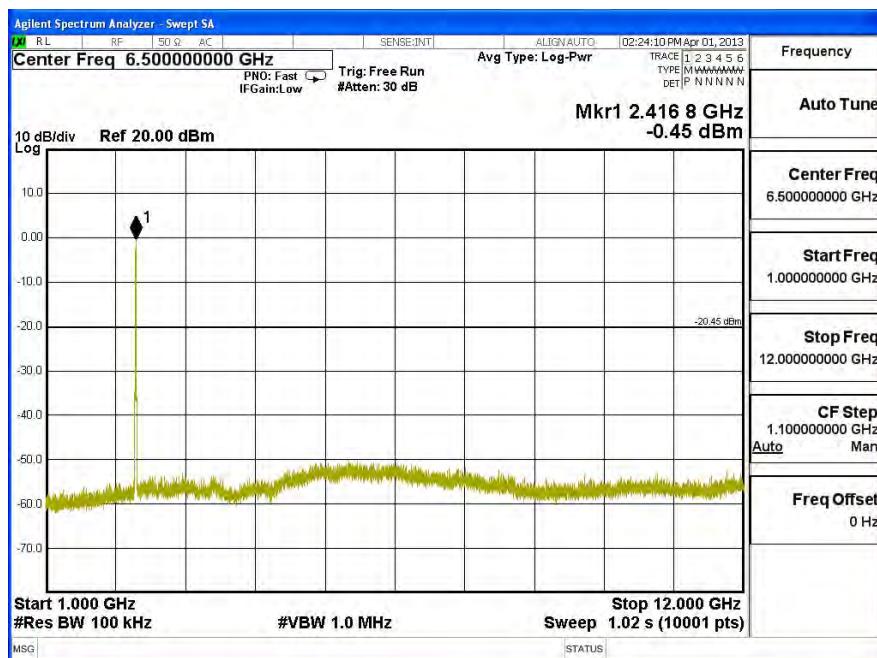


Date: 21.FEB.2003 20:13:43

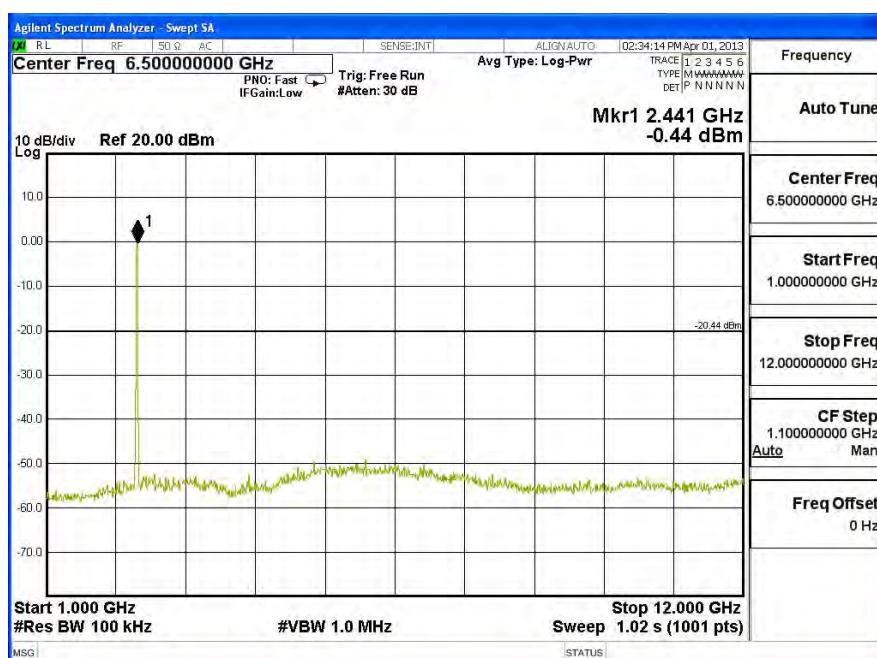
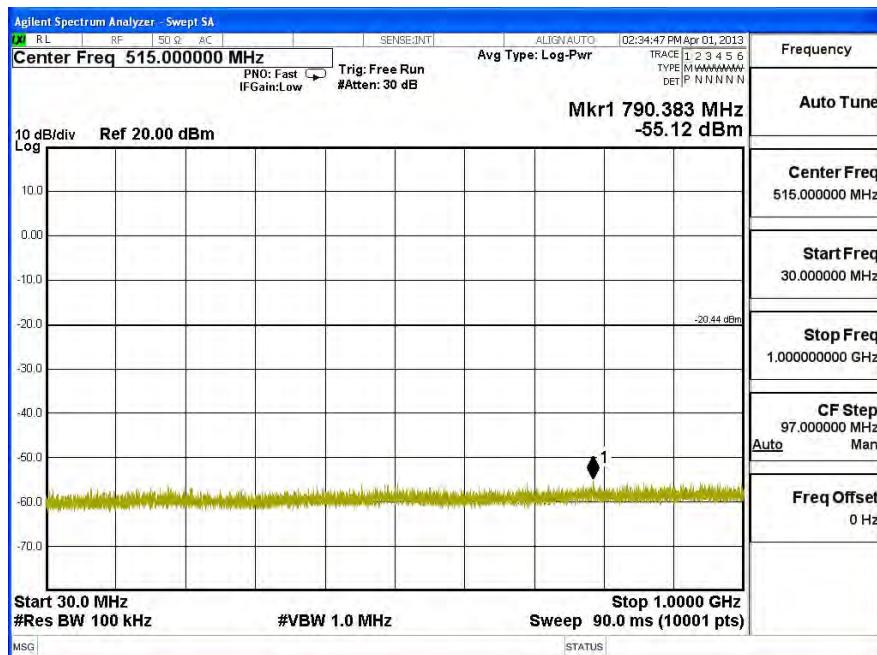
Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

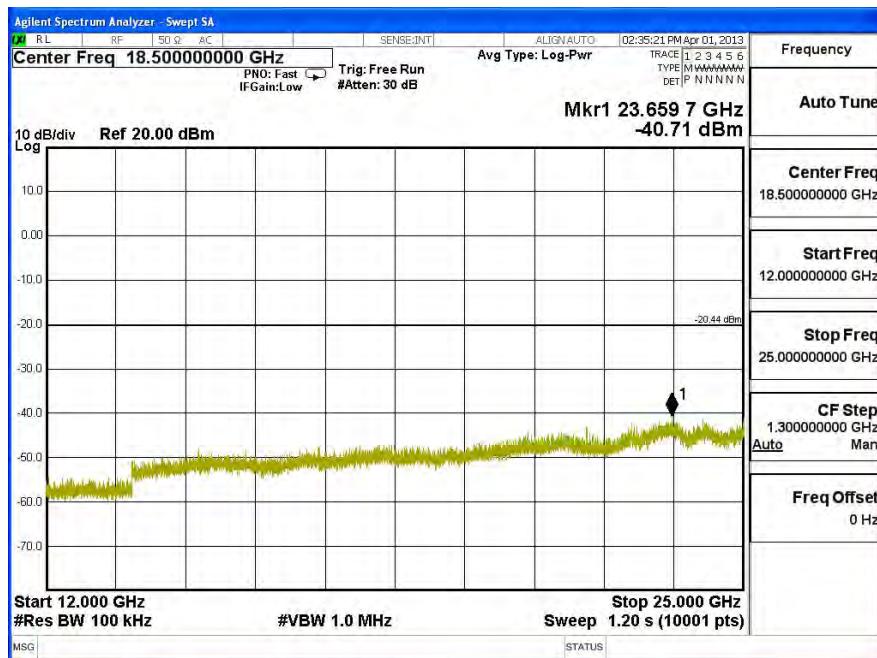
Channel 01 (2412MHz) 30MHz -25GHz-Chain A



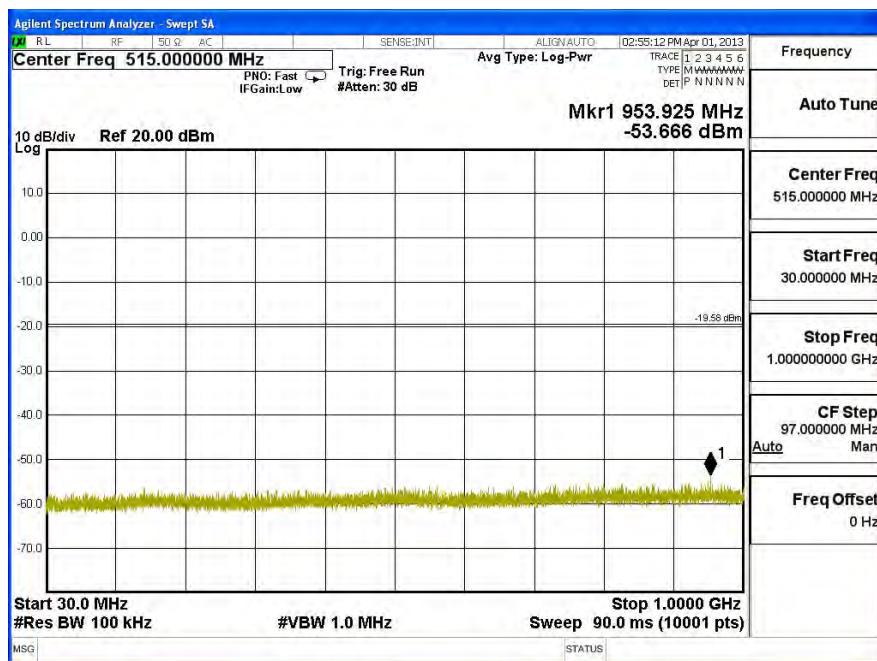


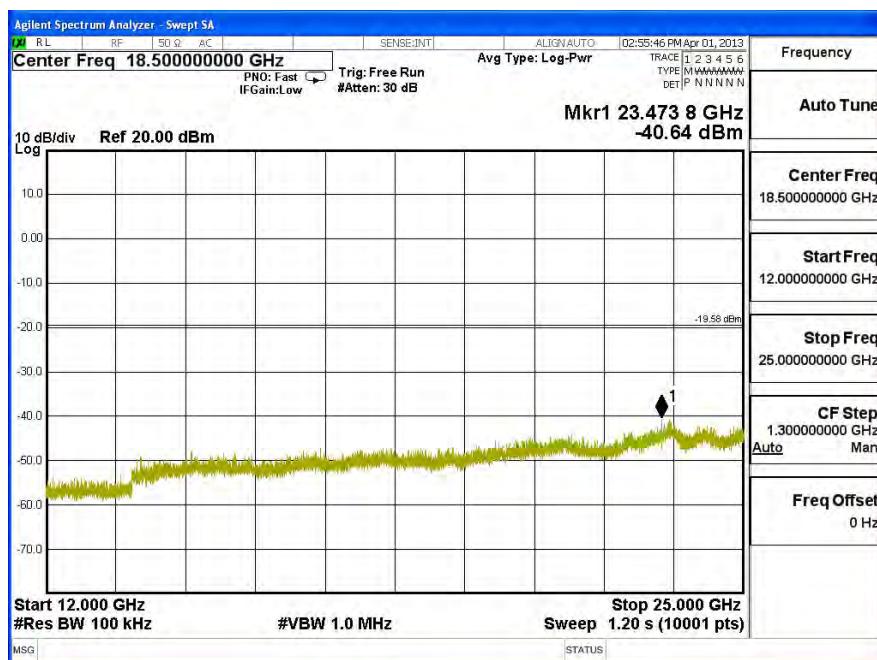
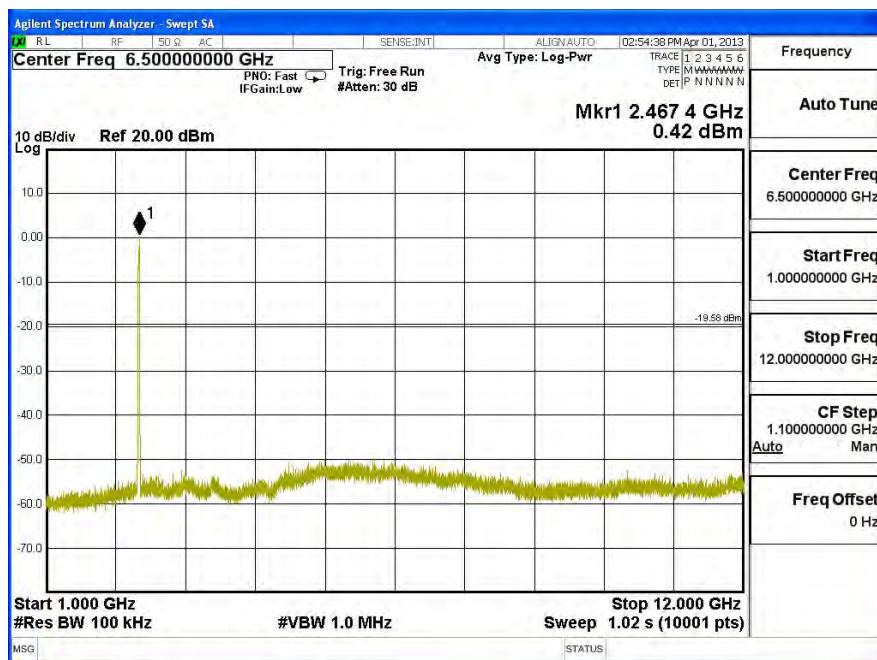
Channel 06 (2437MHz) 30MHz -25GHz-Chain A



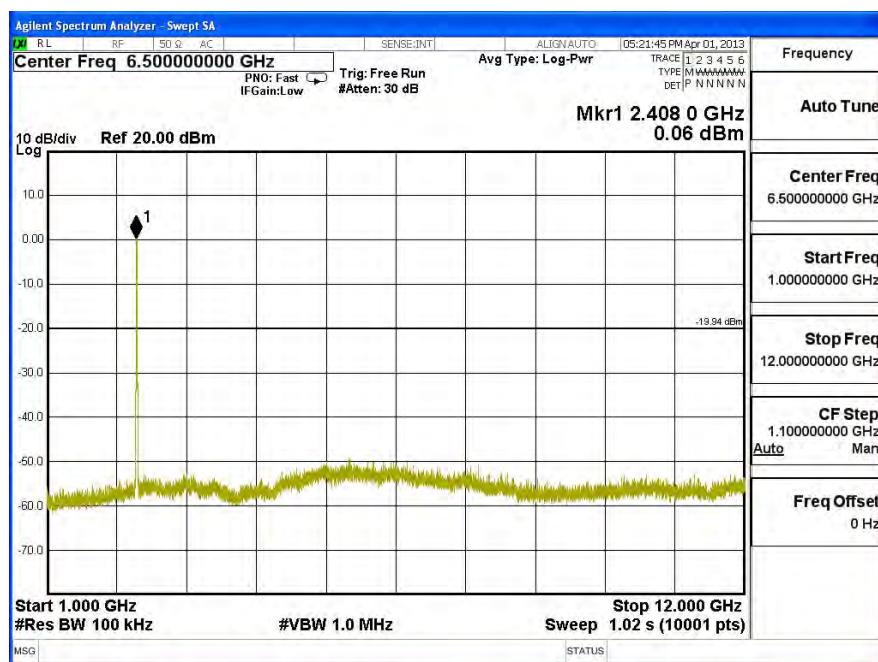
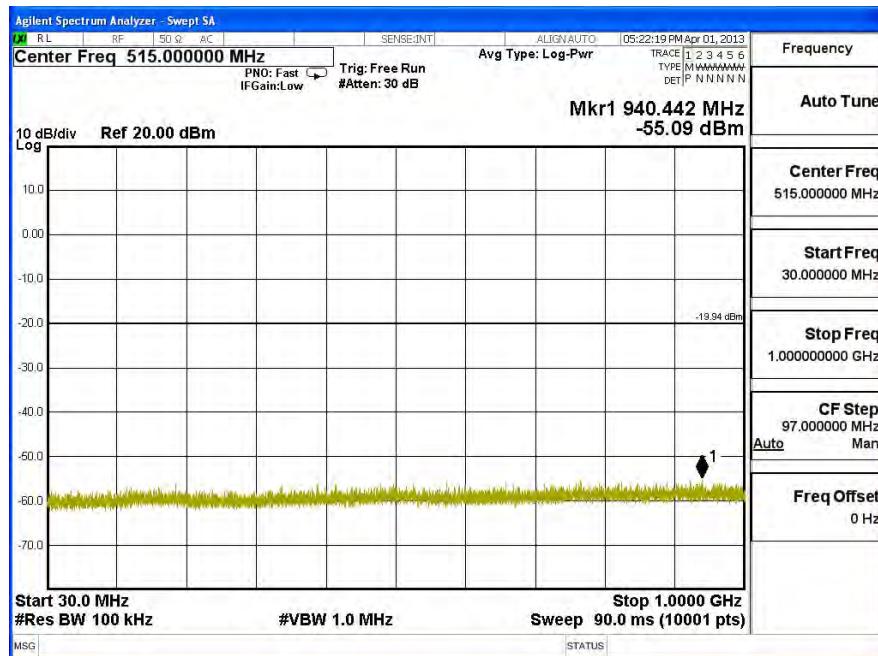


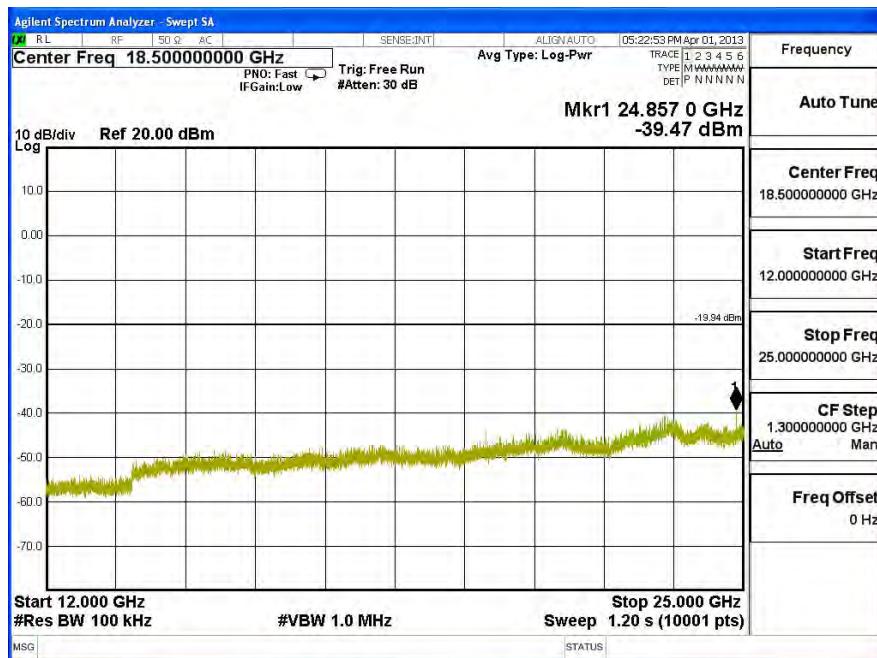
Channel 11 (2462MHz) 30MHz -25GHz-Chain A



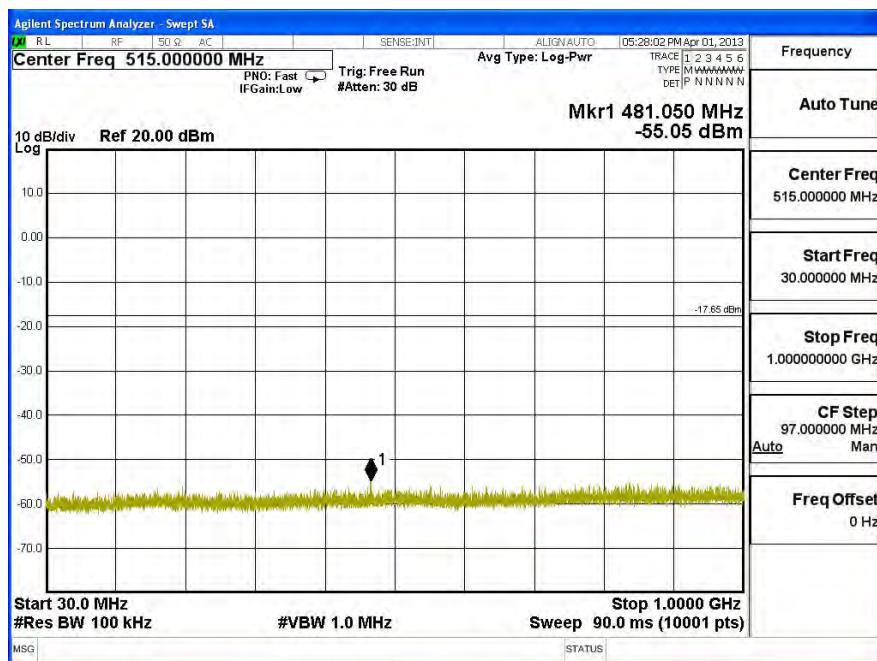


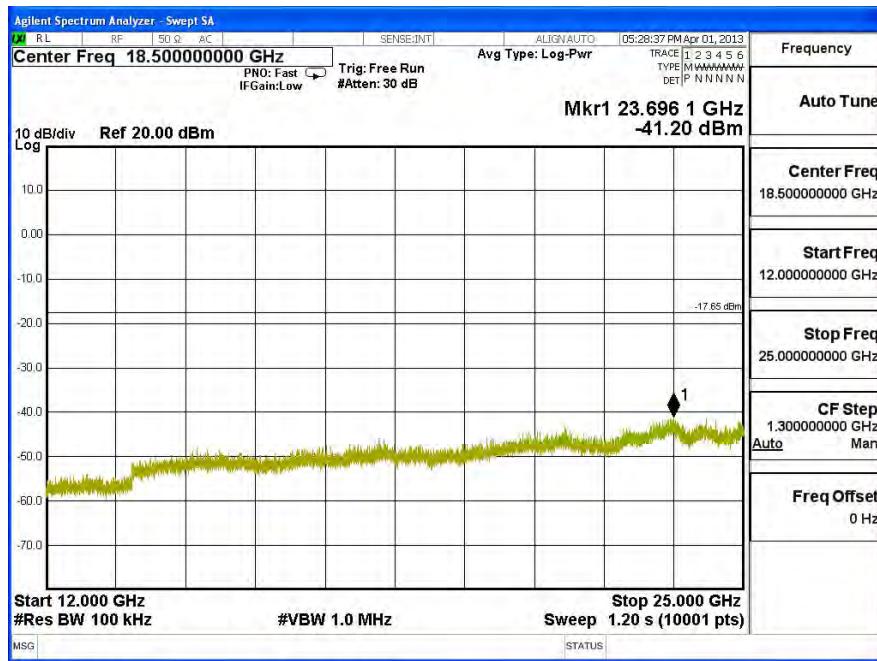
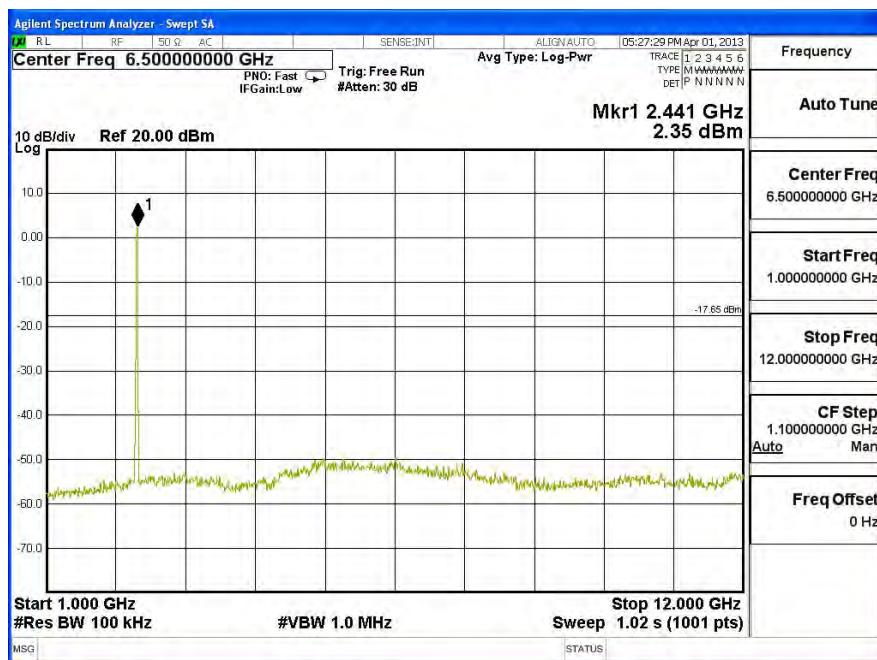
Channel 01 (2412MHz) 30MHz -25GHz-Chain B



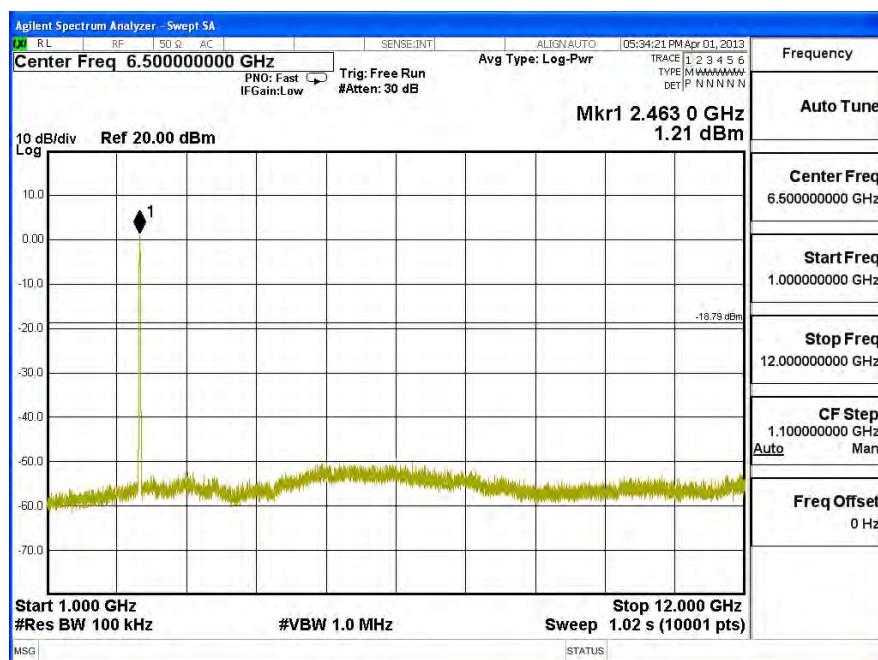
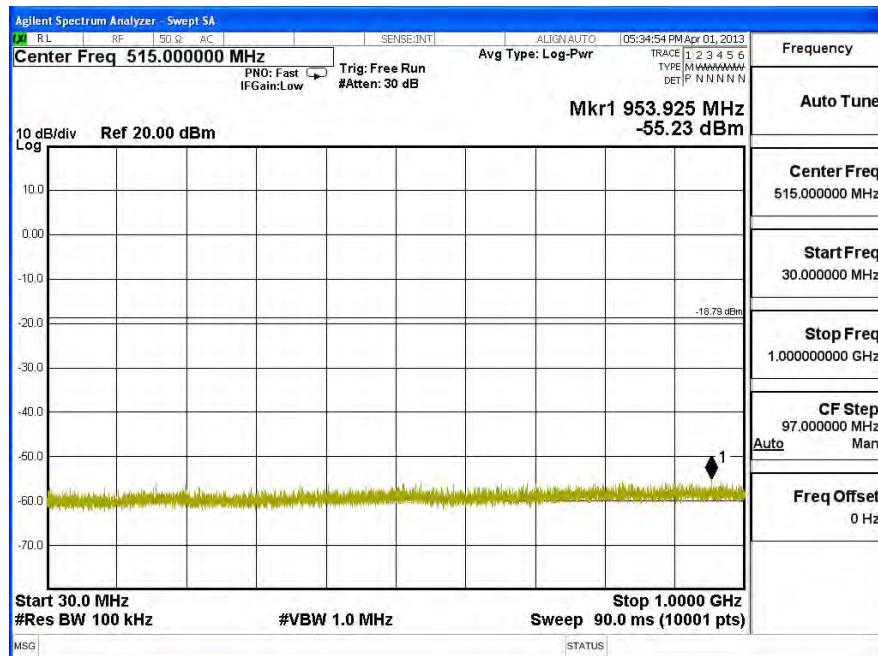


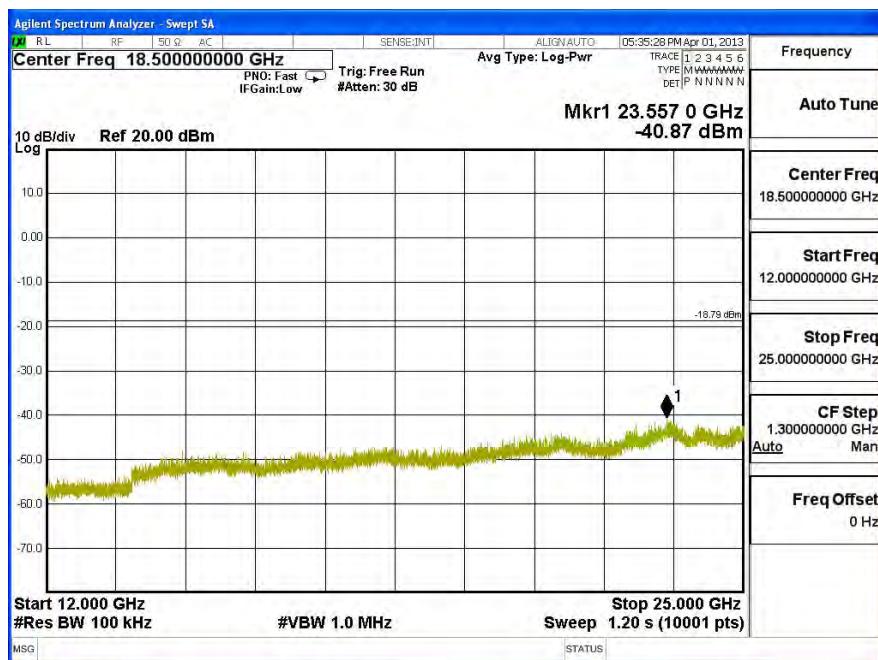
Channel 06 (2437MHz) 30MHz -25GHz-Chain B





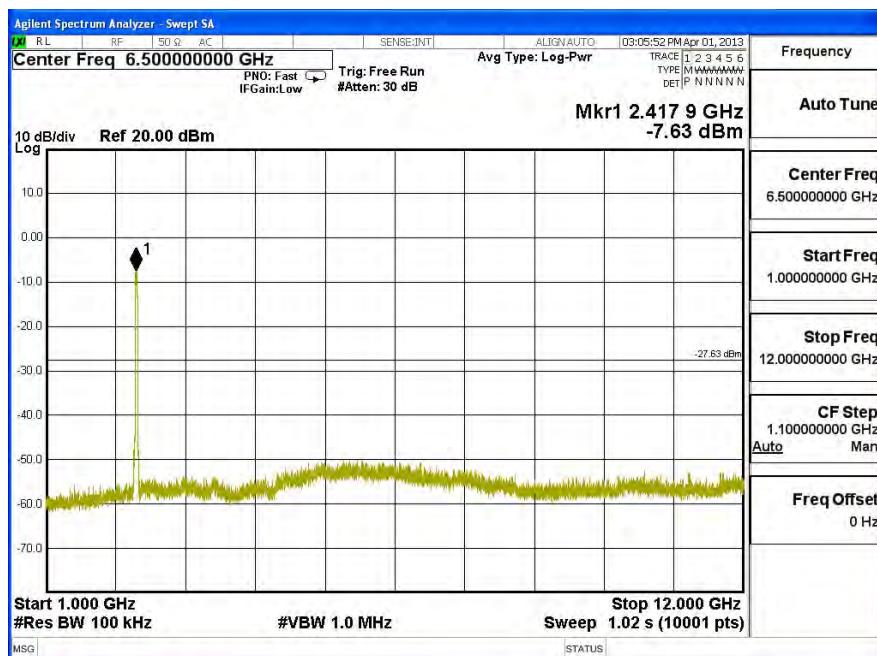
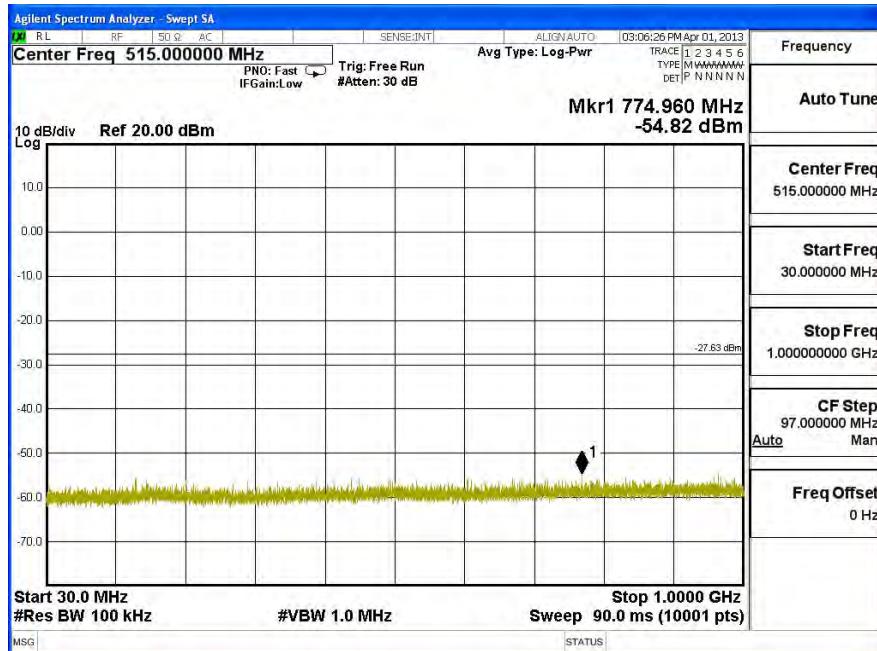
Channel 11 (2462MHz) 30MHz -25GHz-Chain B

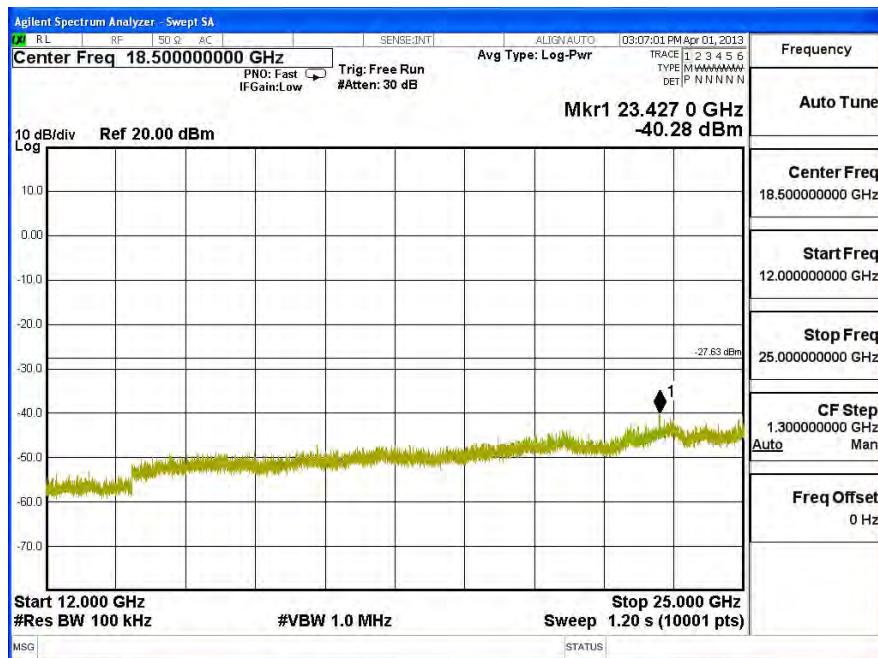




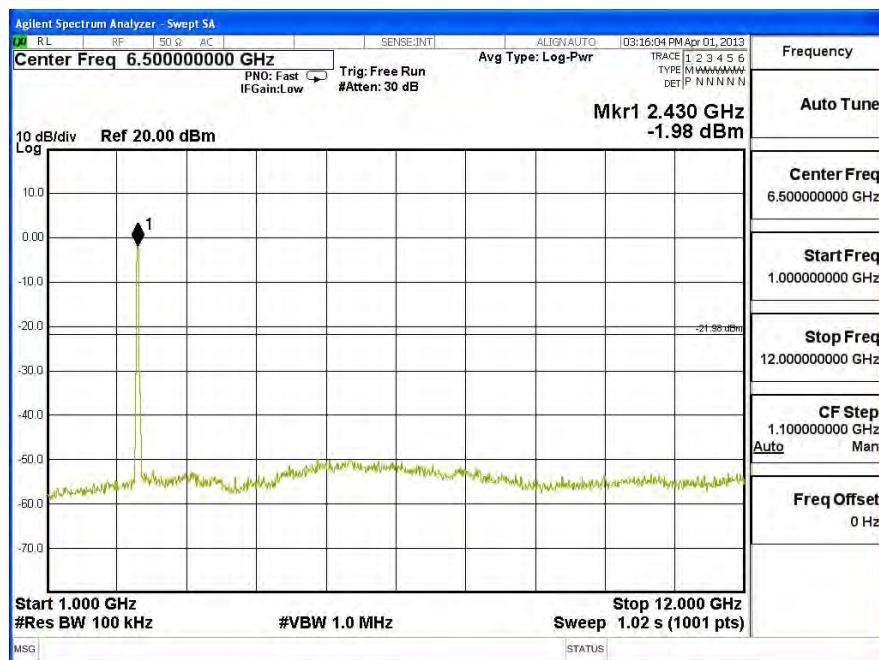
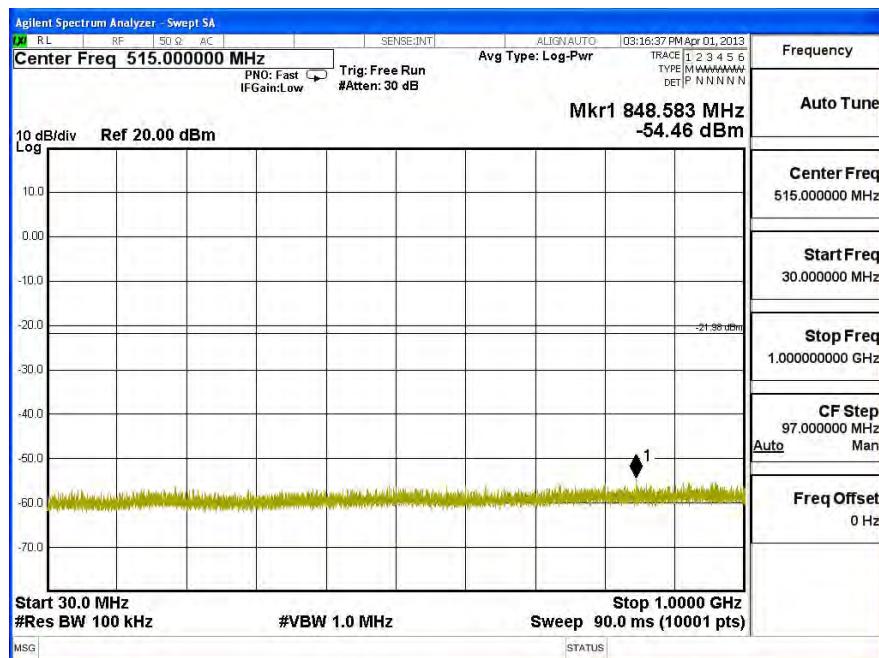
Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

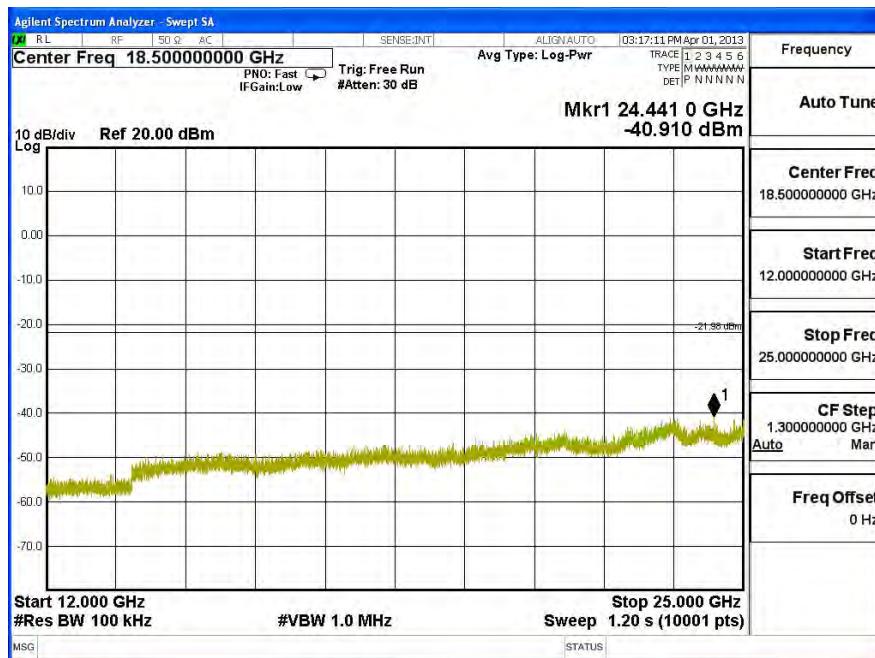
Channel 03 (2422MHz) 30MHz -25GHz-Chain A



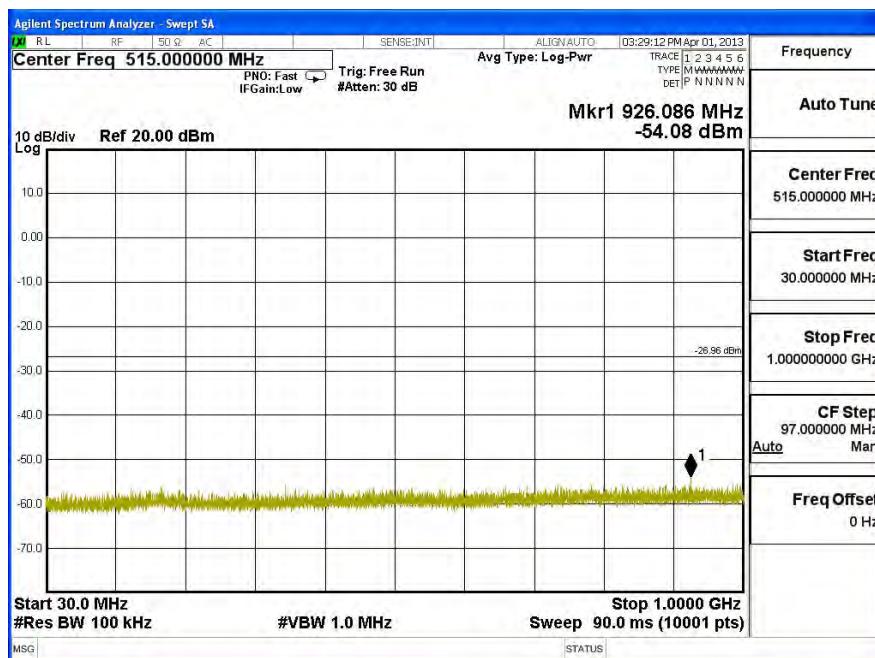


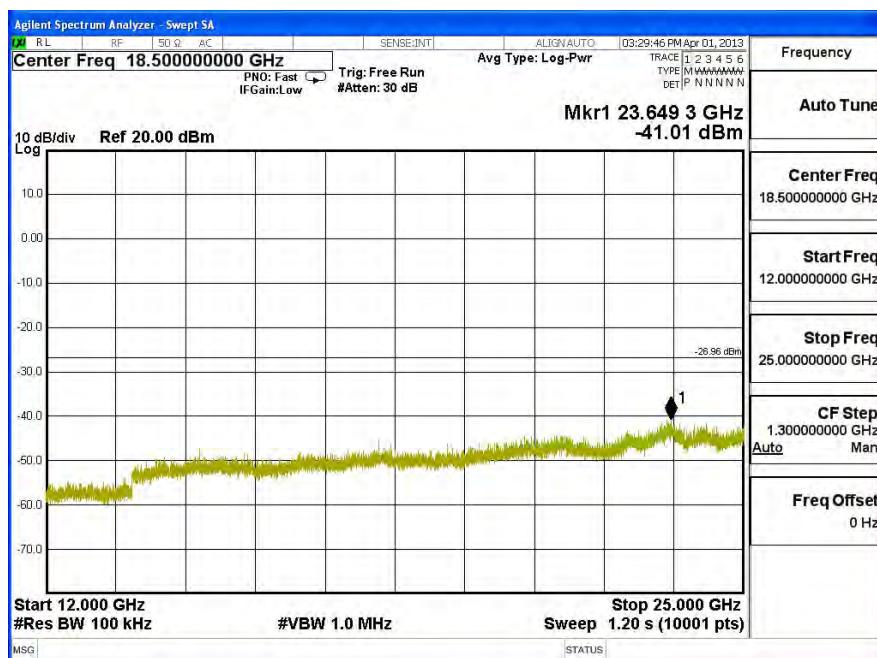
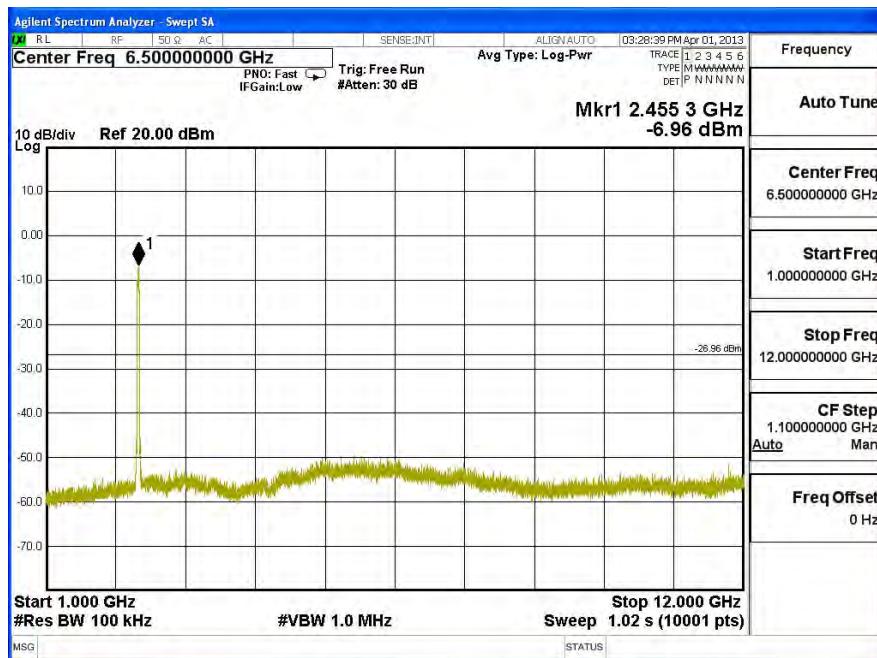
Channel 06 (2437MHz) 30MHz -25GHz-Chain A



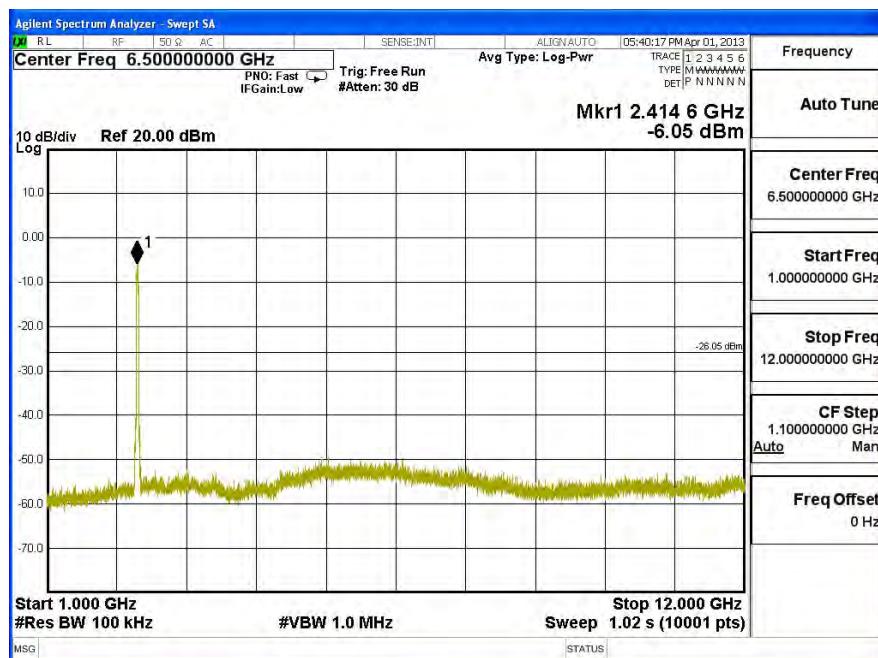
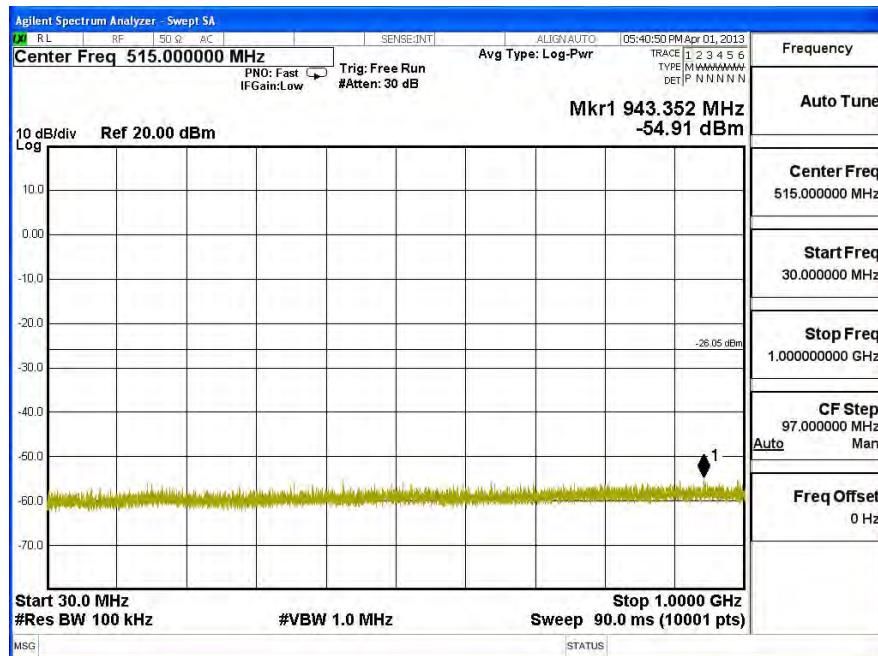


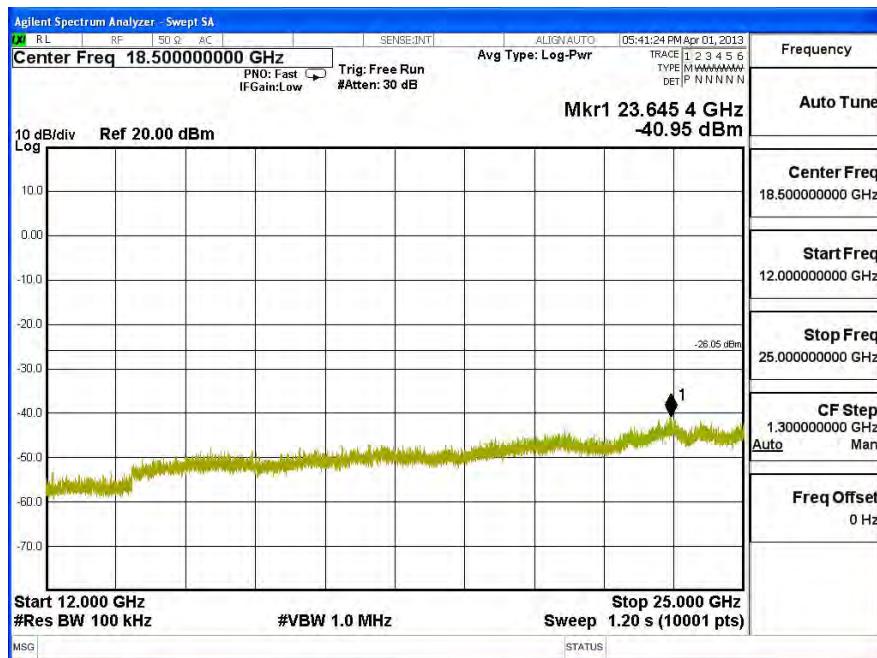
Channel 09 (2452MHz) 30MHz -25GHz-Chain A



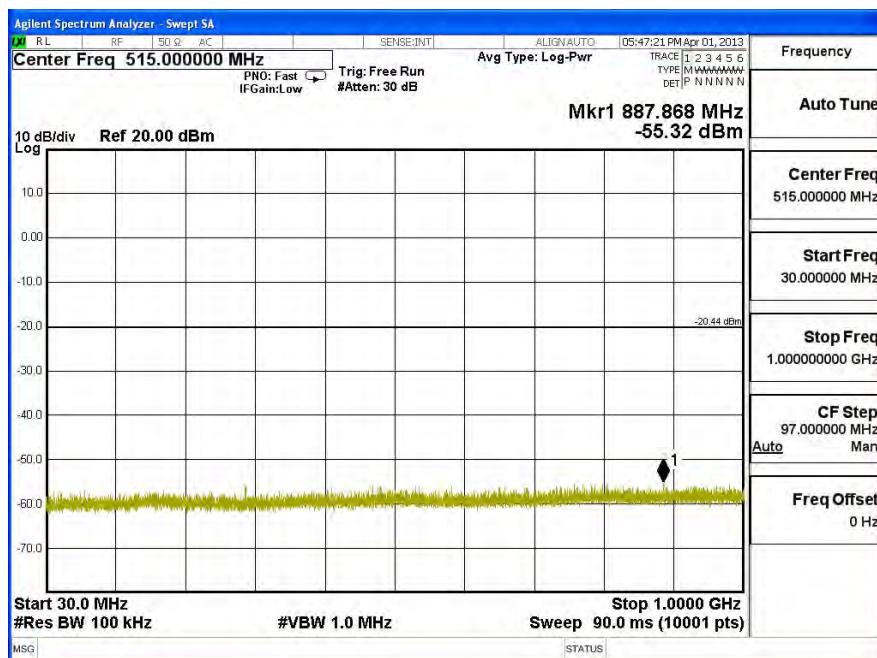


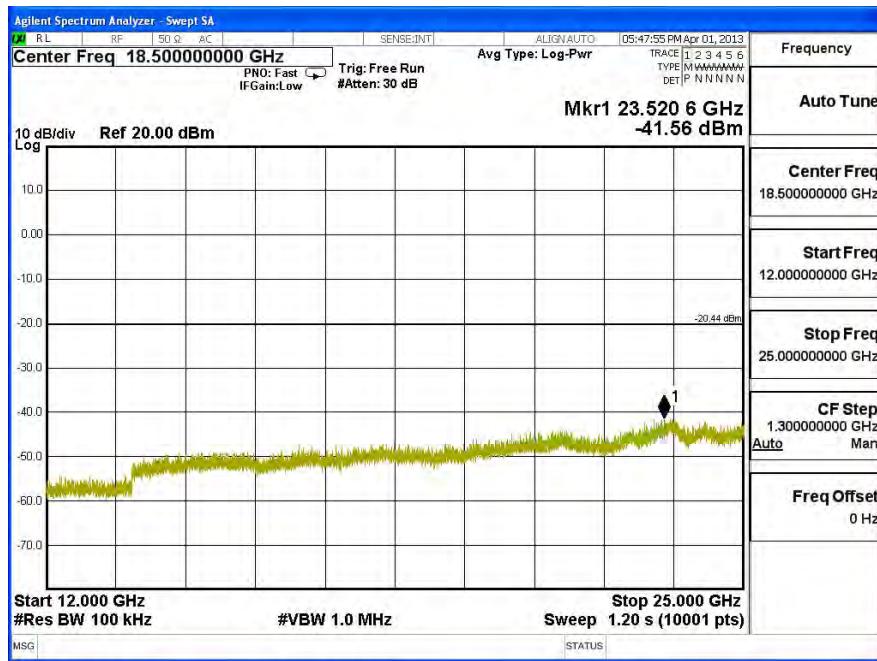
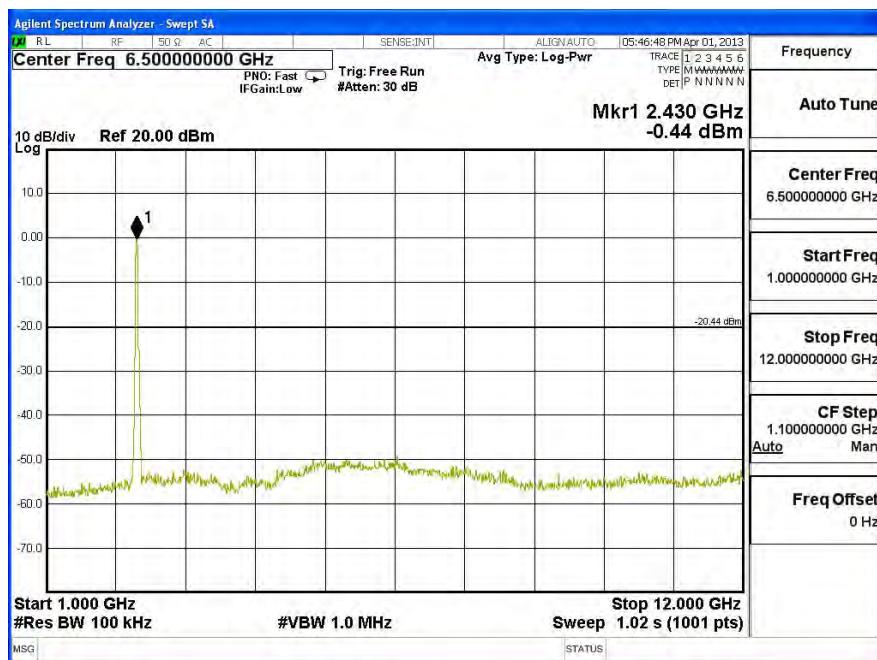
Channel 03 (2422MHz) 30MHz -25GHz-Chain B



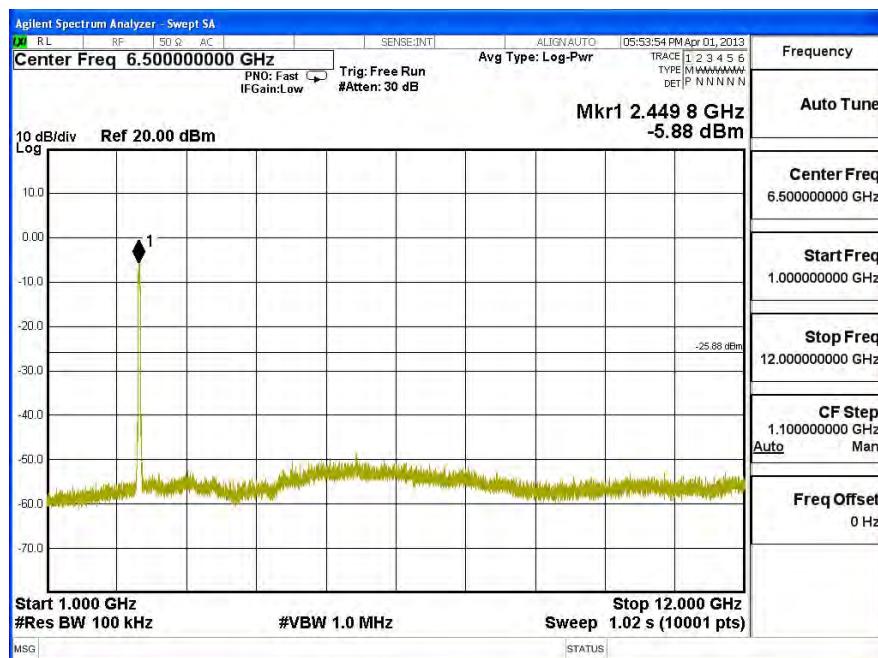
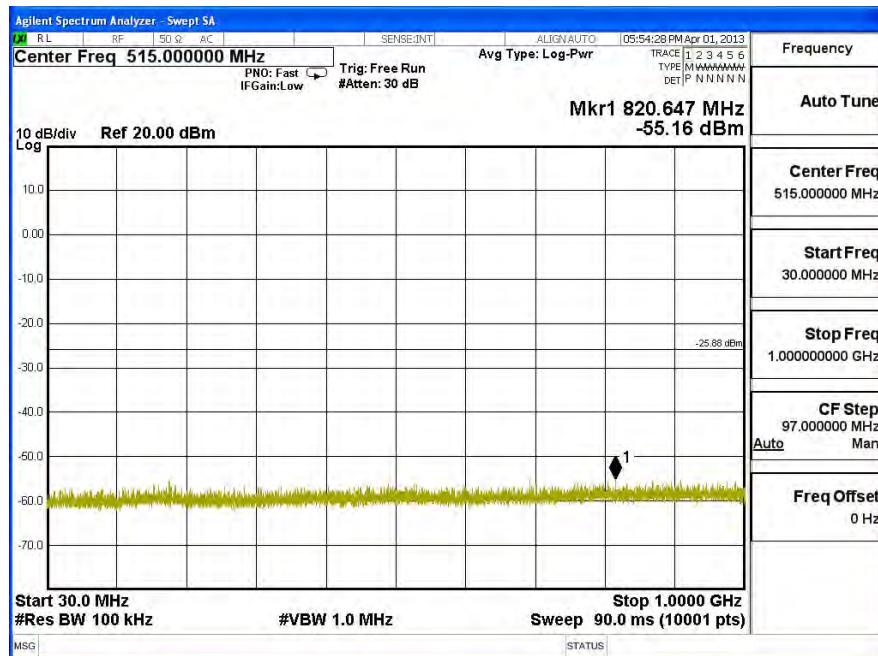


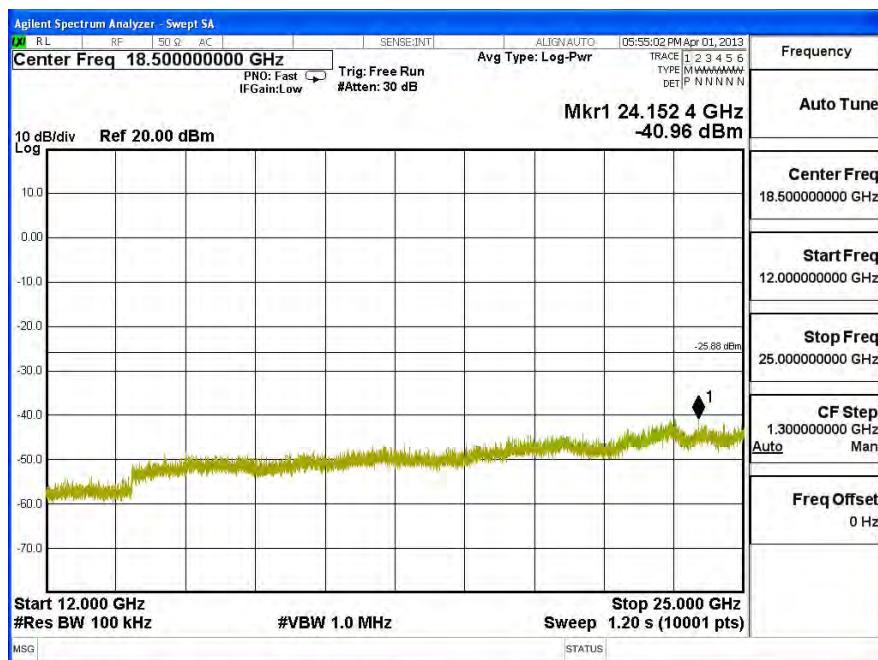
Channel 06 (2437MHz) 30MHz -25GHz-Chain B





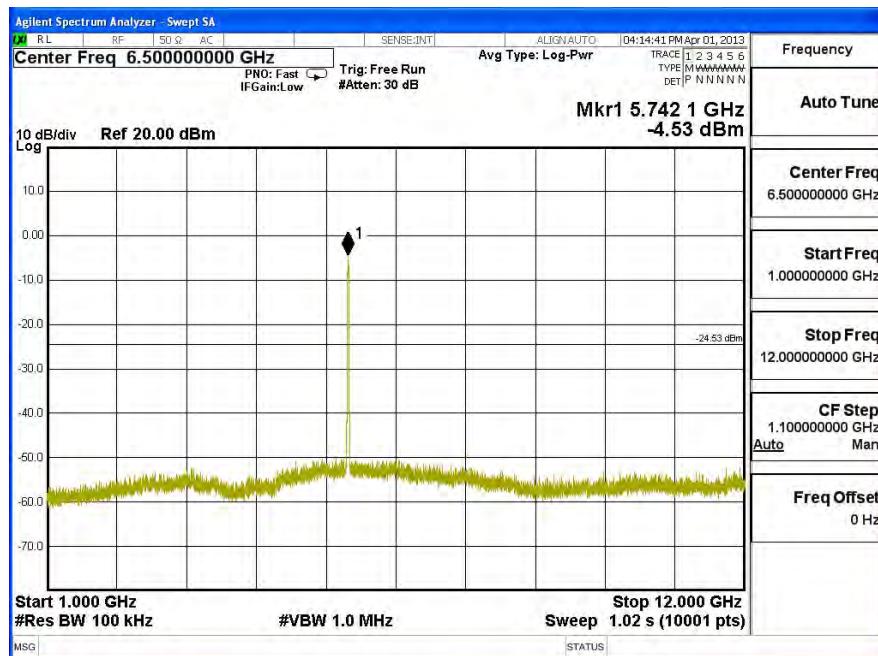
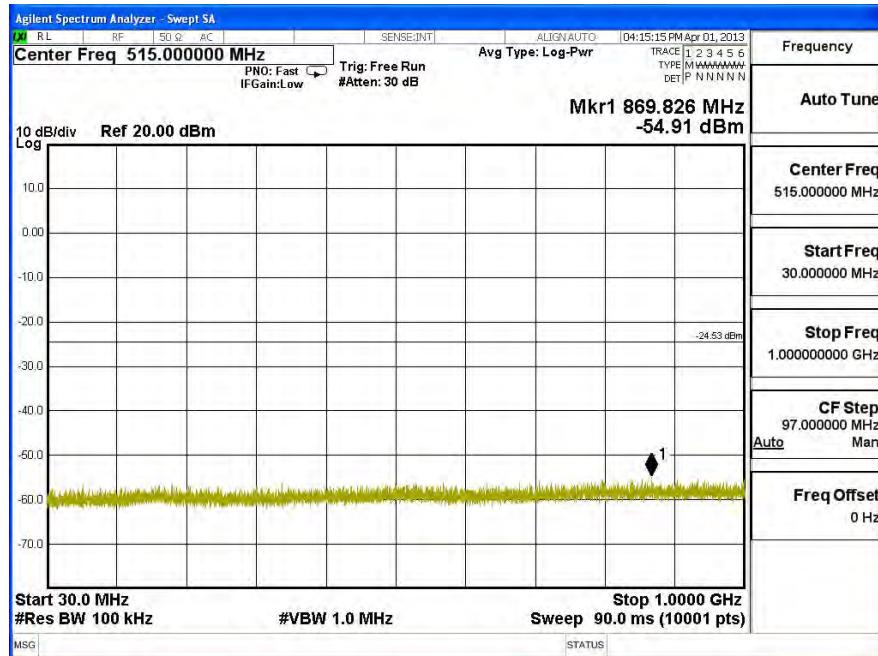
Channel 09 (2452MHz) 30MHz -25GHz-Chain B

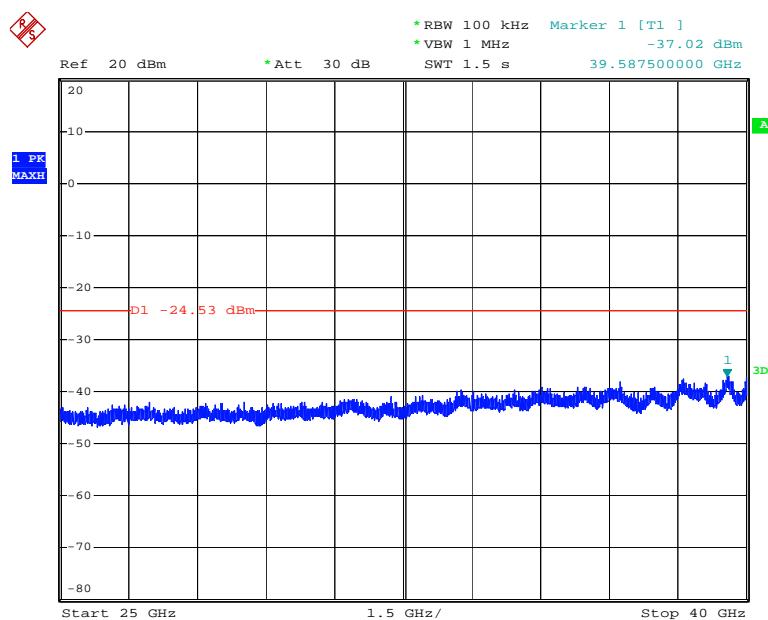
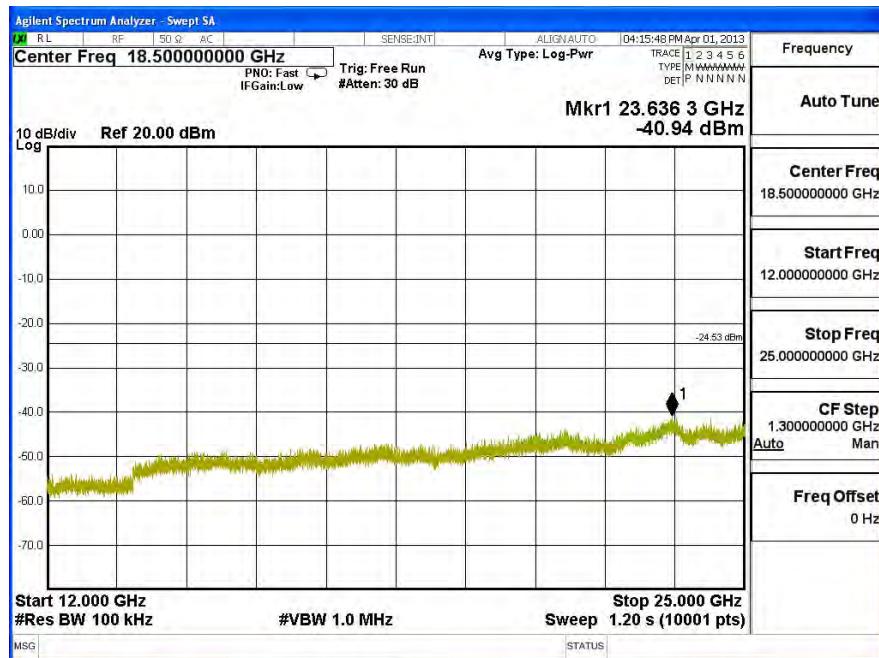




Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)

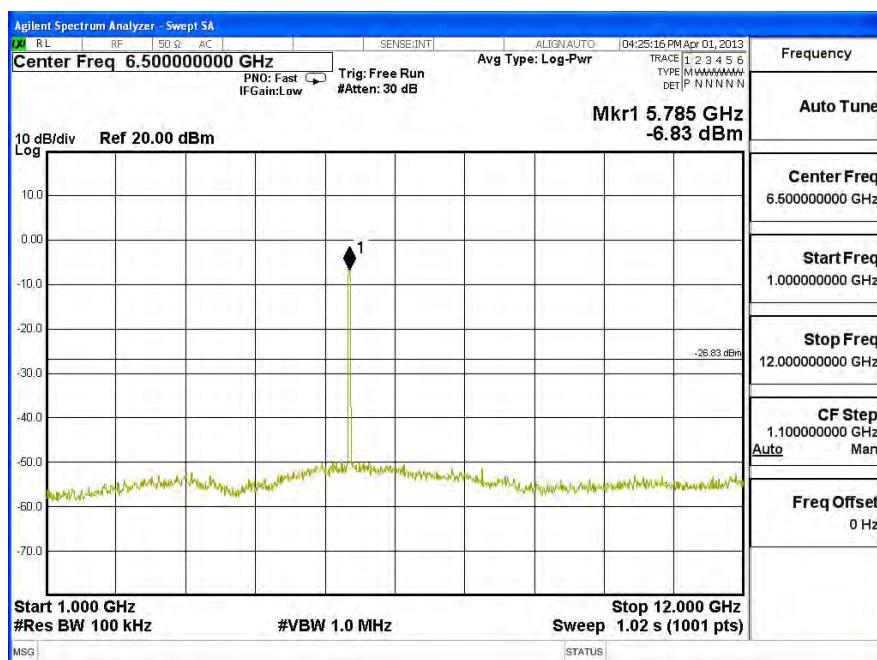
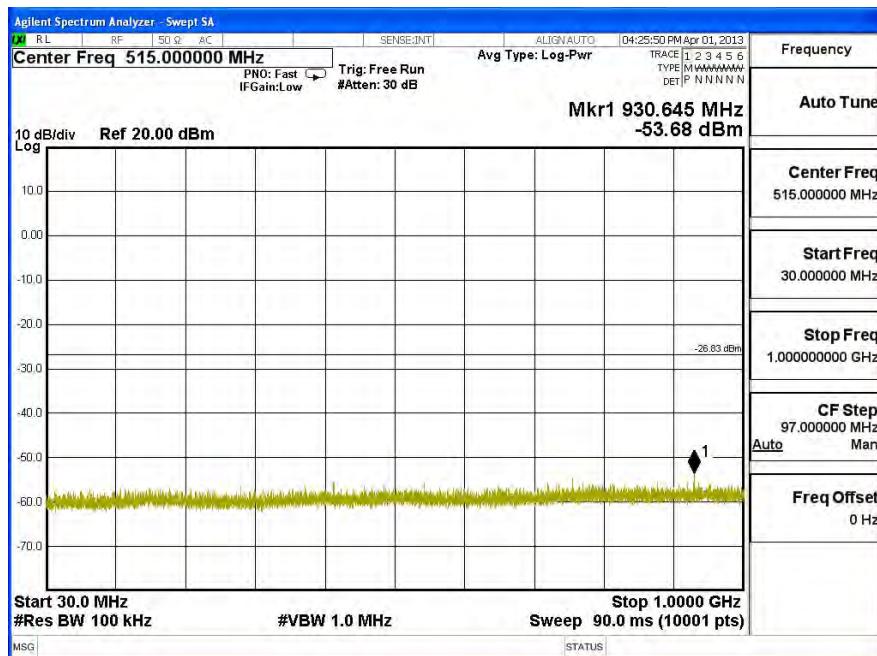
Channel 149 (5745MHz) 30MHz -40GHz-Chain A

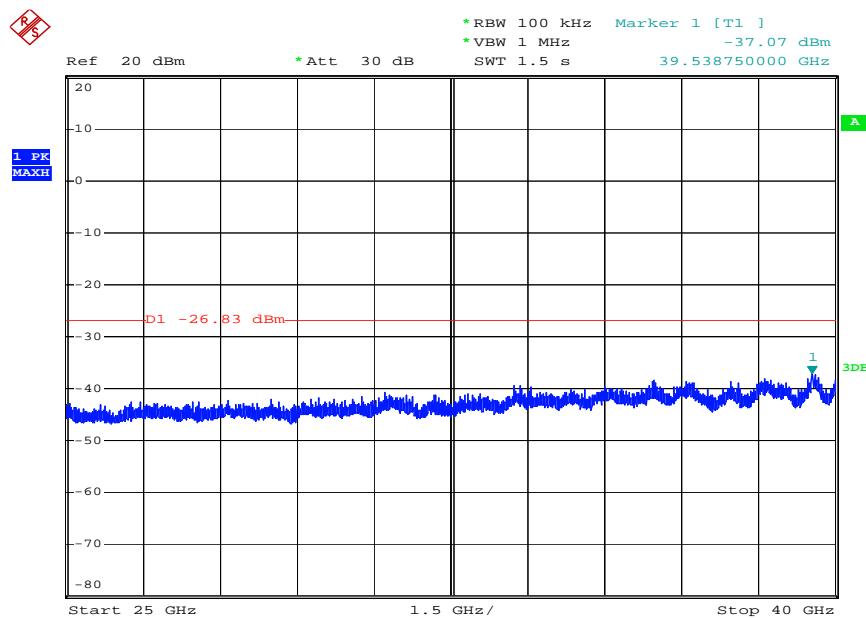
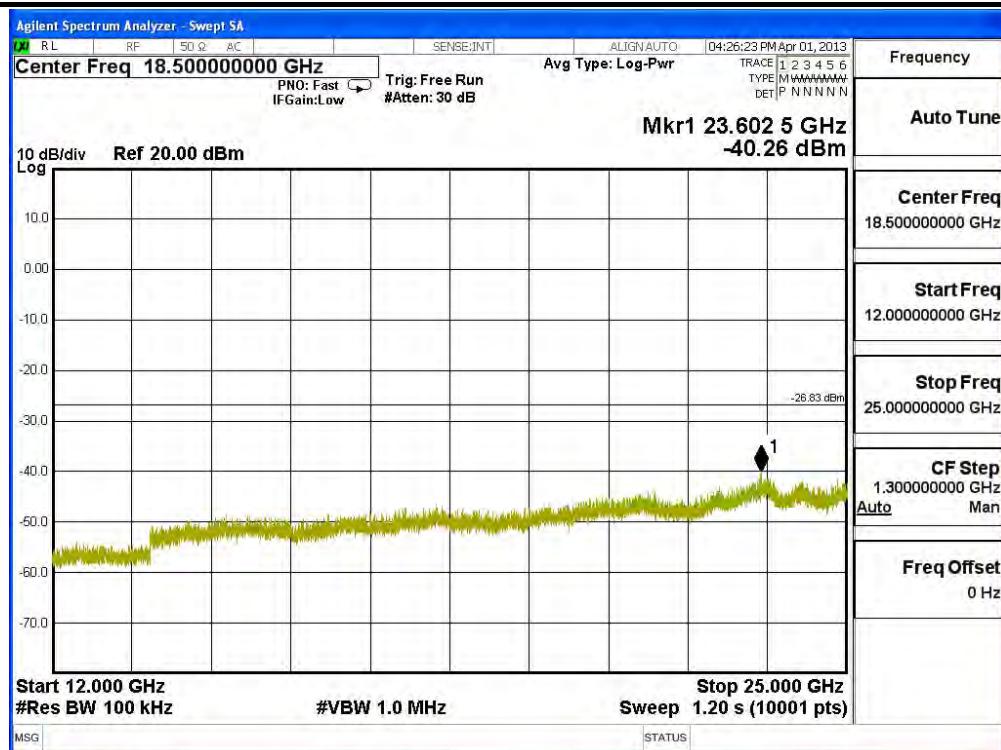




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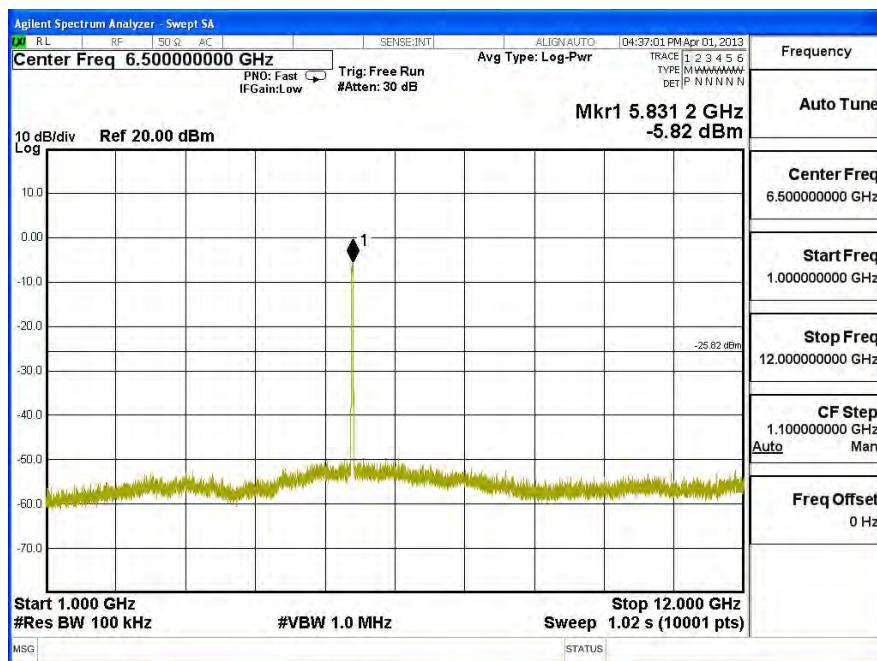
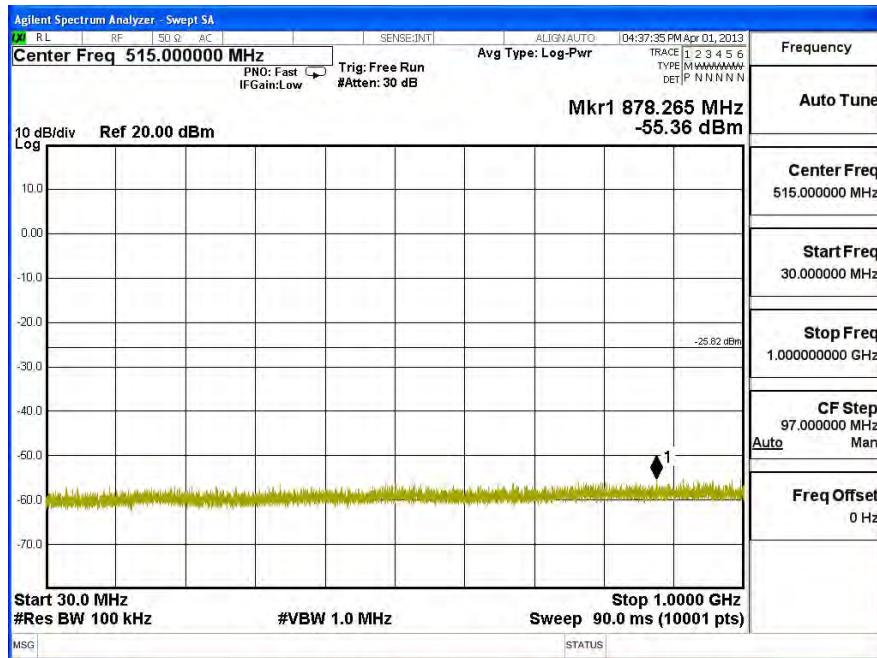
Channel 157 (5785MHz) 30MHz -40GHz-Chain A

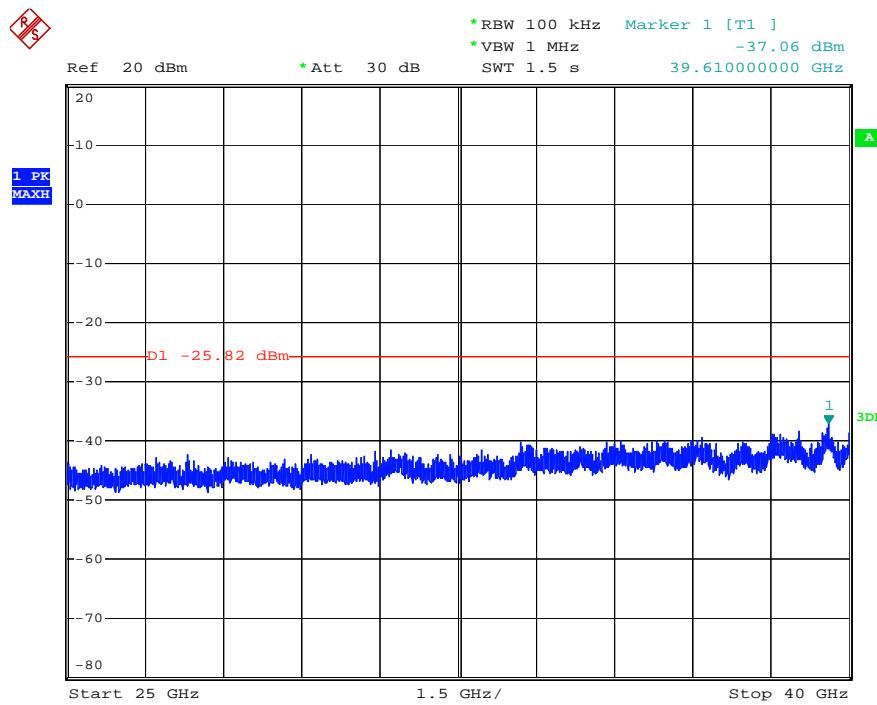
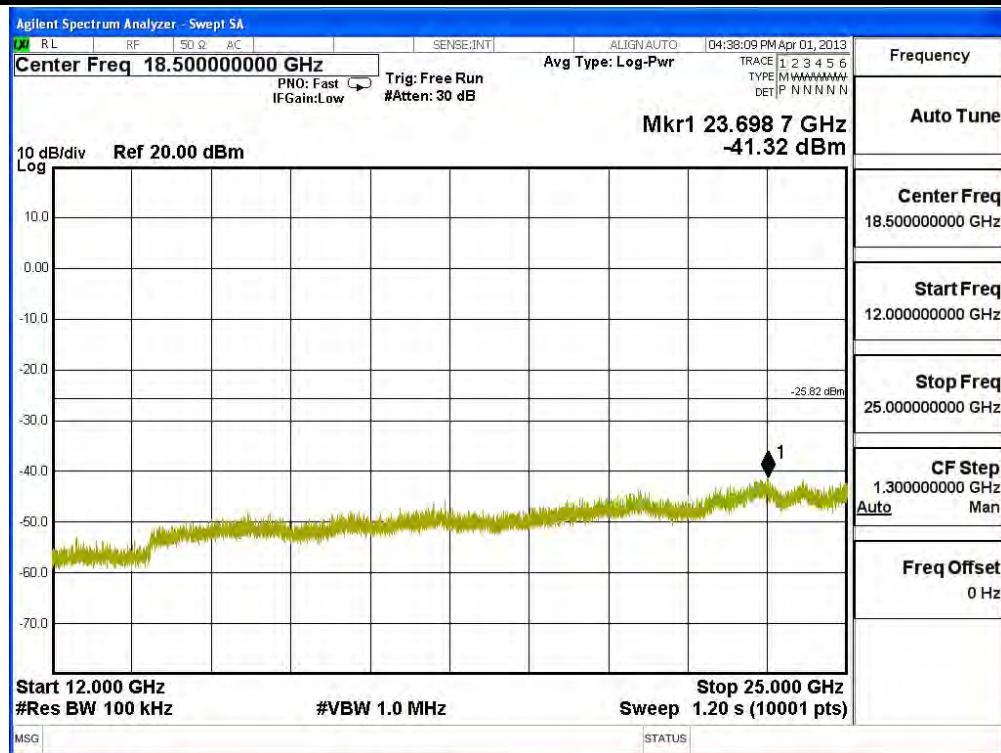




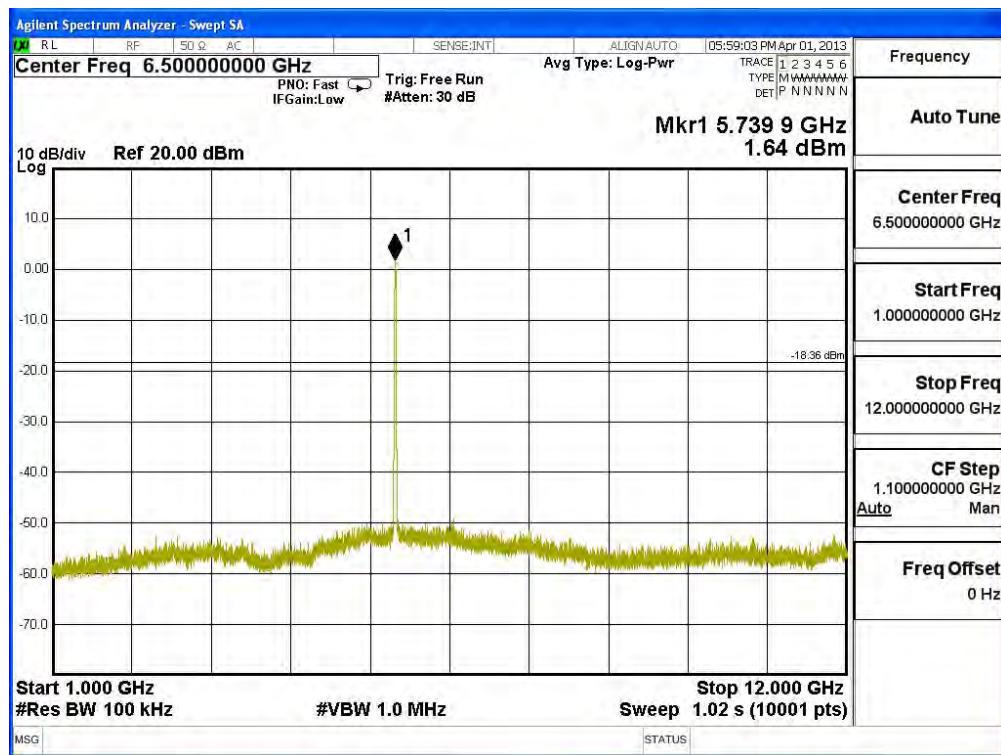
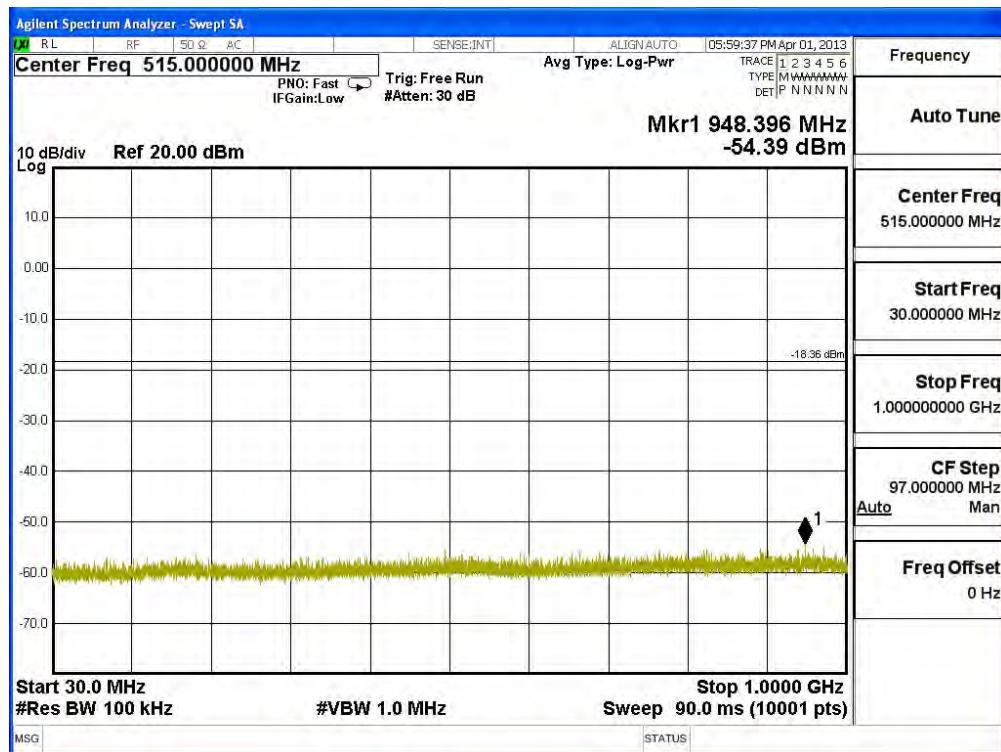
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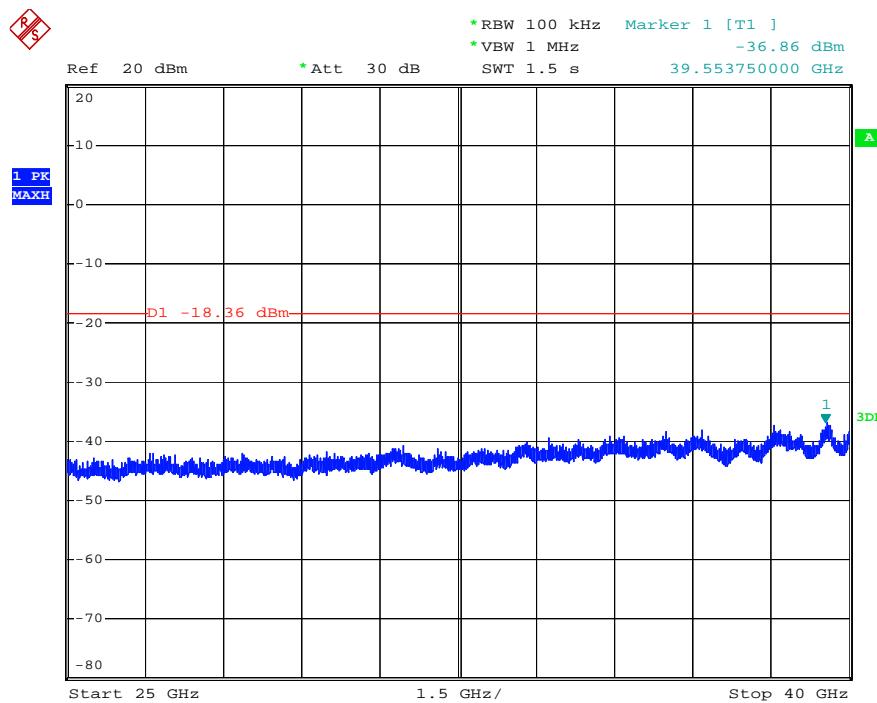
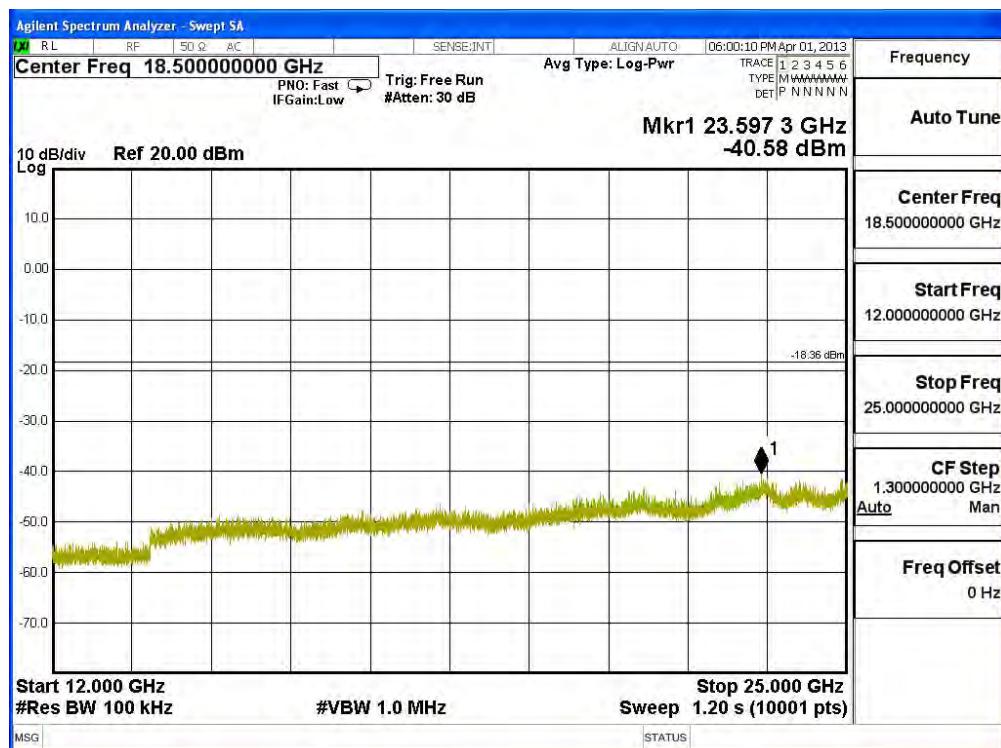
Channel 165 (5825MHz) 30MHz -40GHz-Chain A





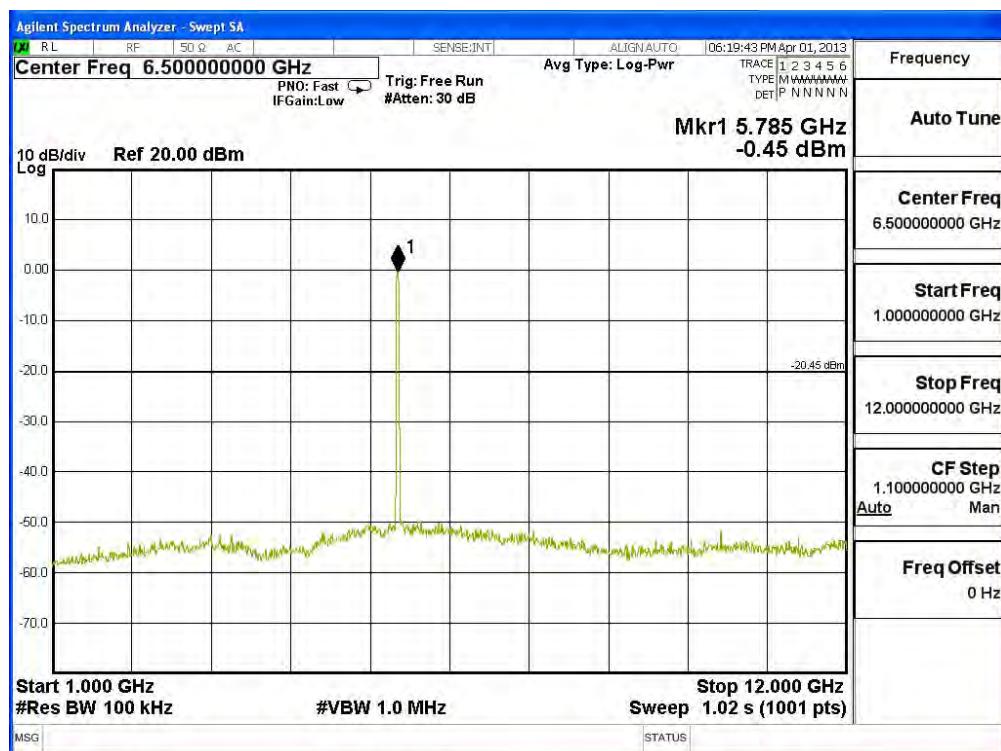
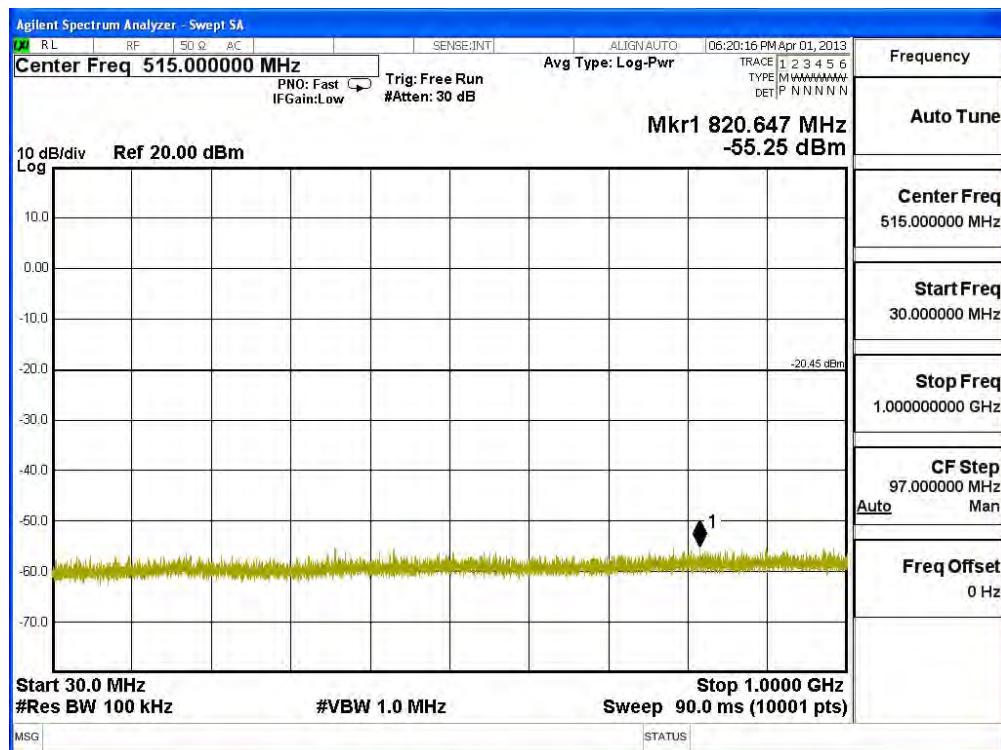
Date: 21.FEB.2003 20:27:07

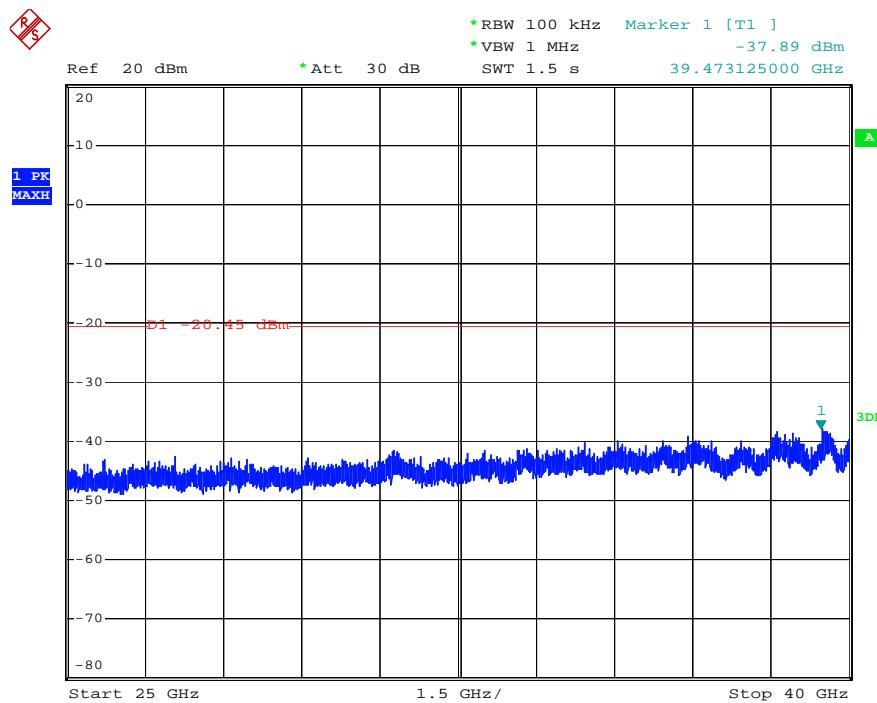
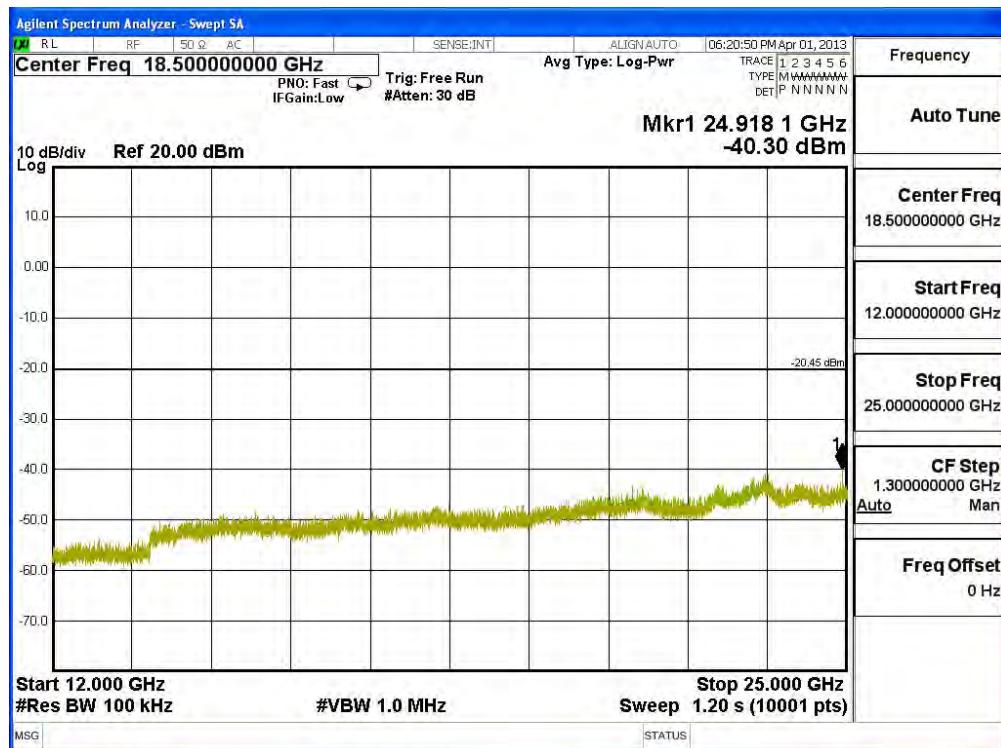
Channel 149 (5745MHz) 30MHz -40GHz-Chain B




Date: 21.FEB.2003 20:21:09

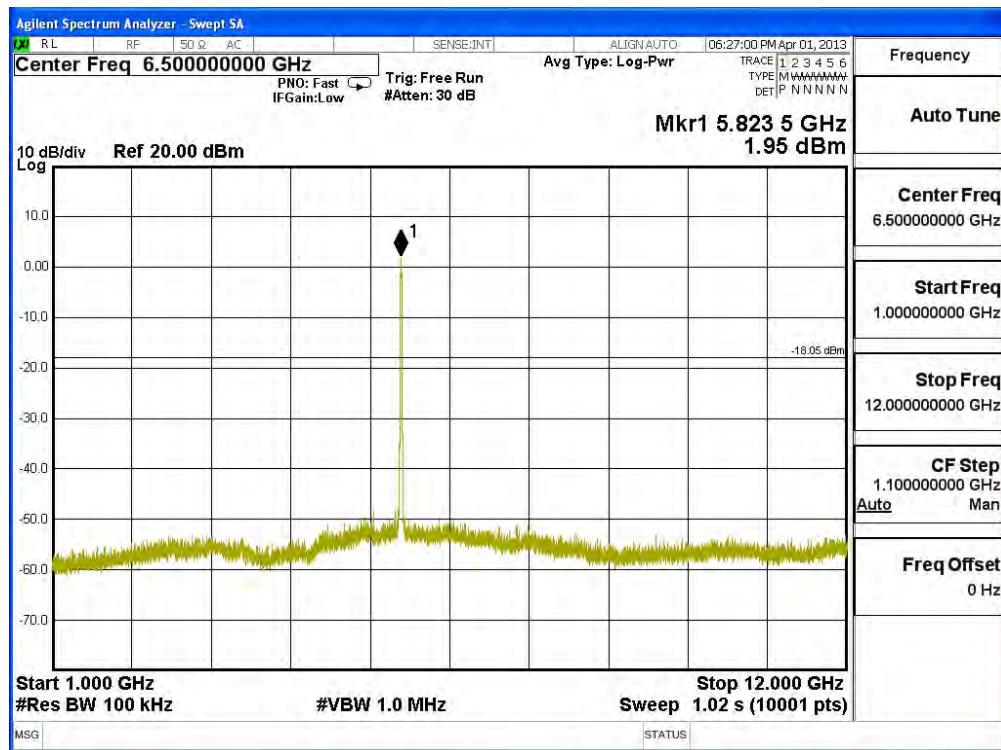
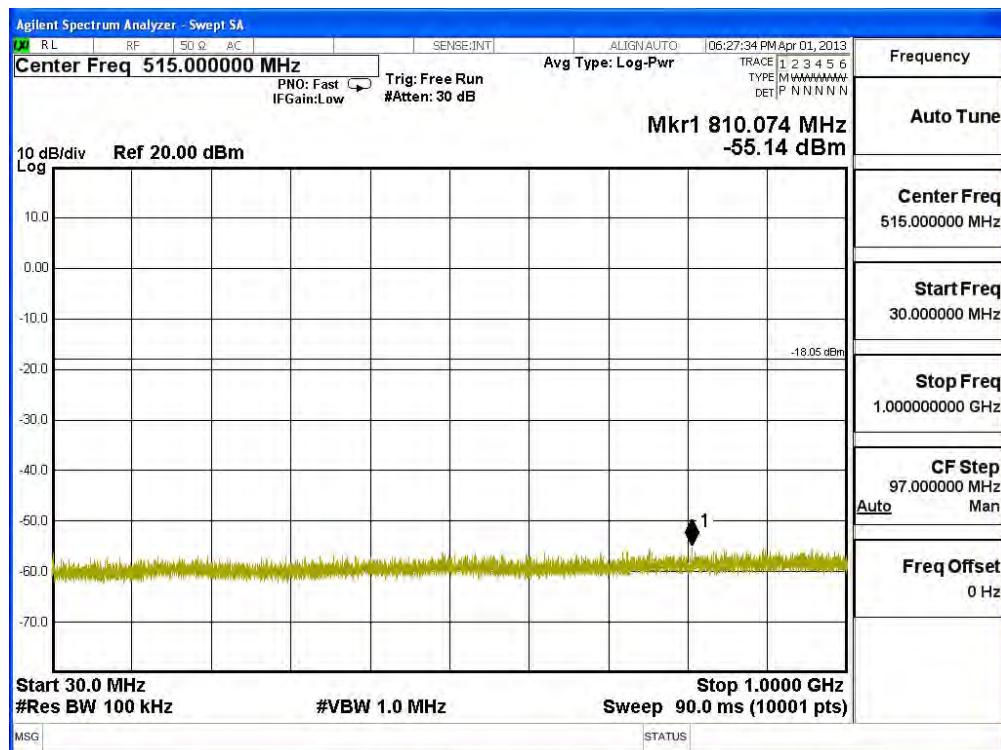
Channel 157 (5785MHz) 30MHz -40GHz-Chain B

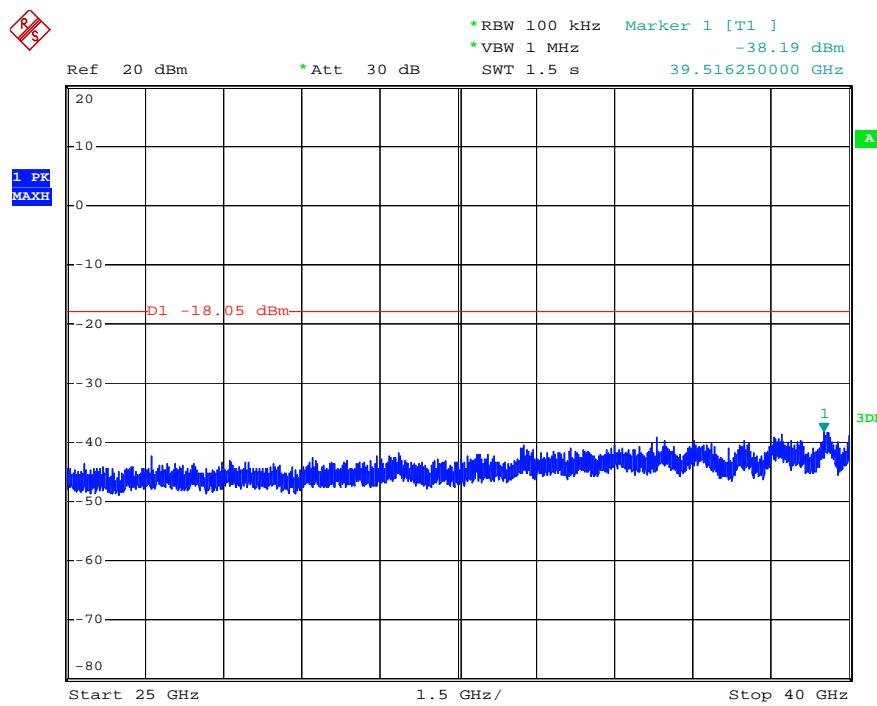
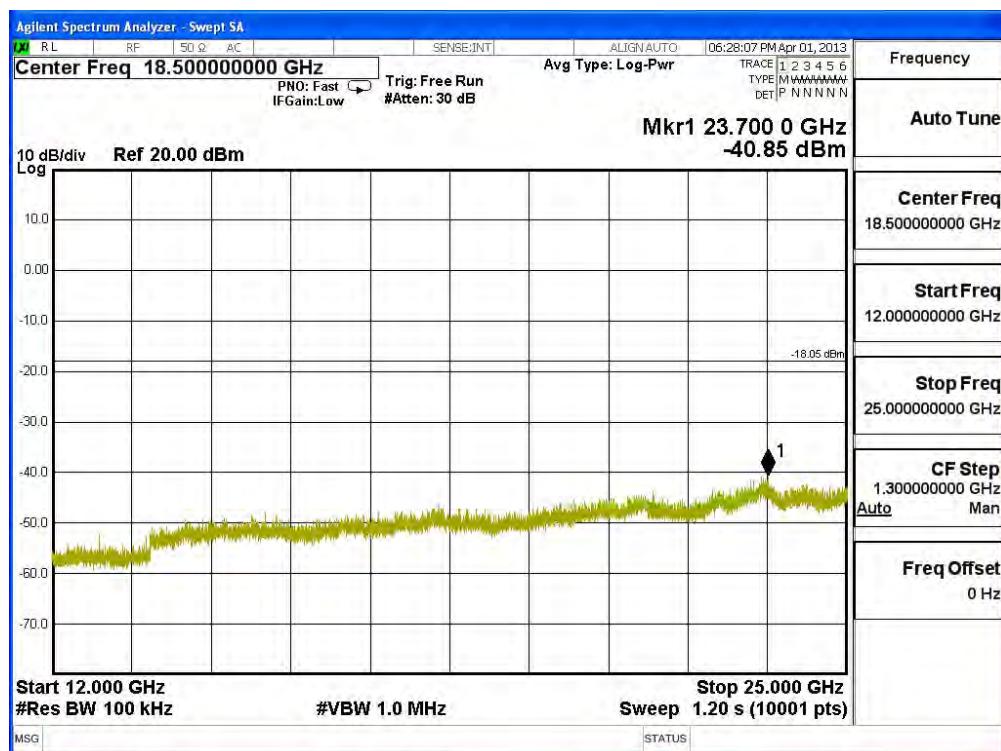




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Channel 165 (5825MHz) 30MHz -40GHz-Chain B

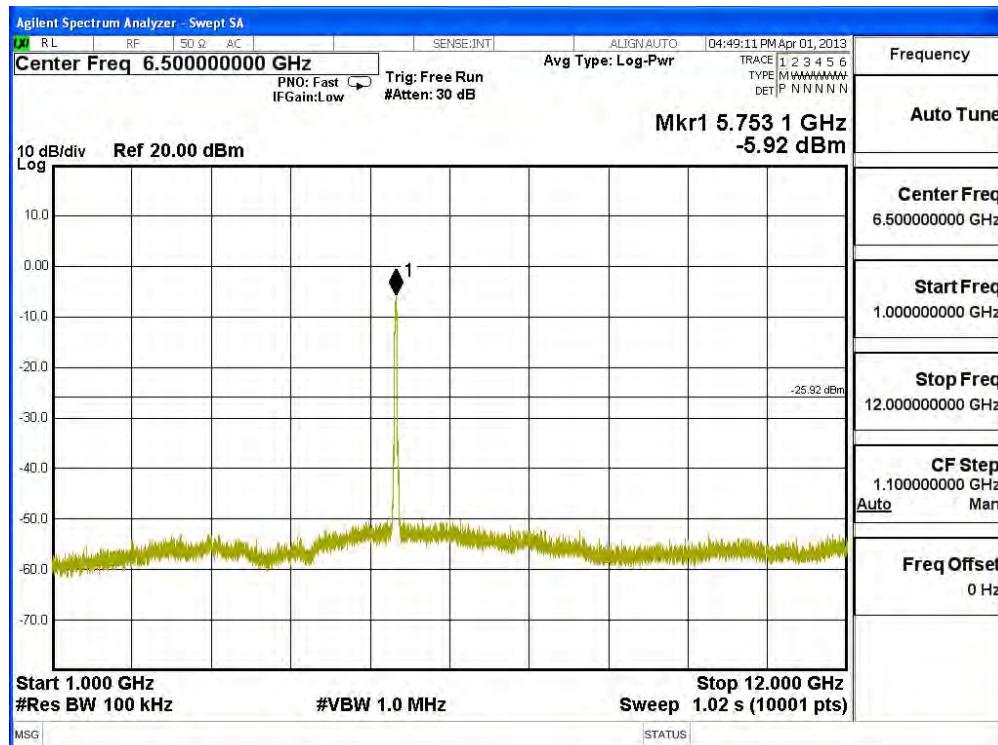
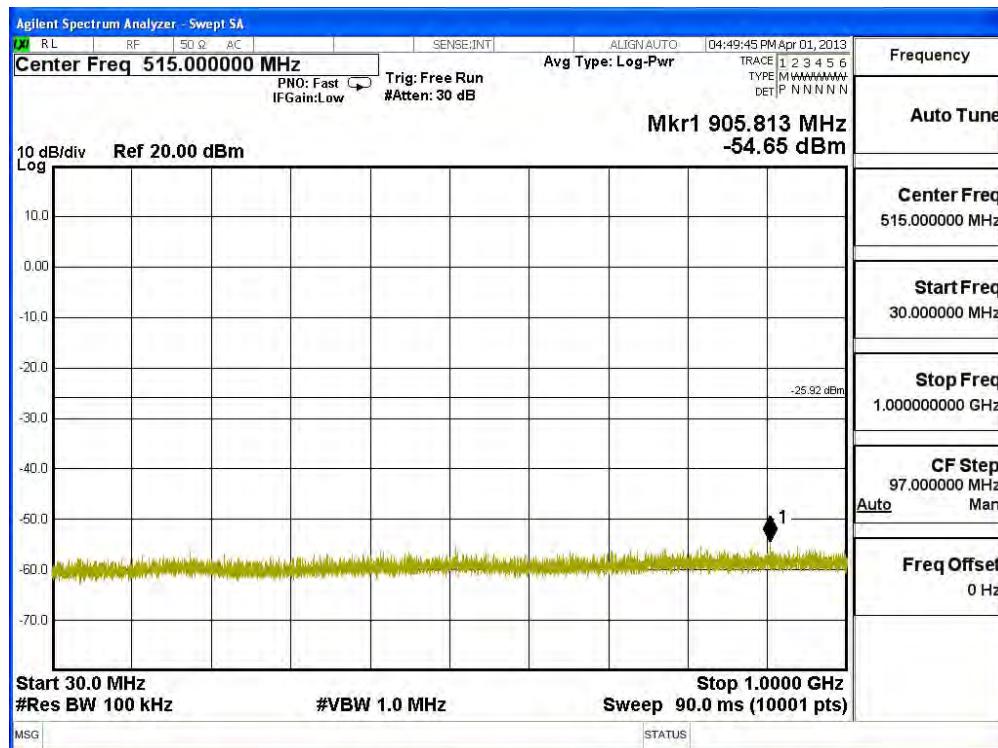


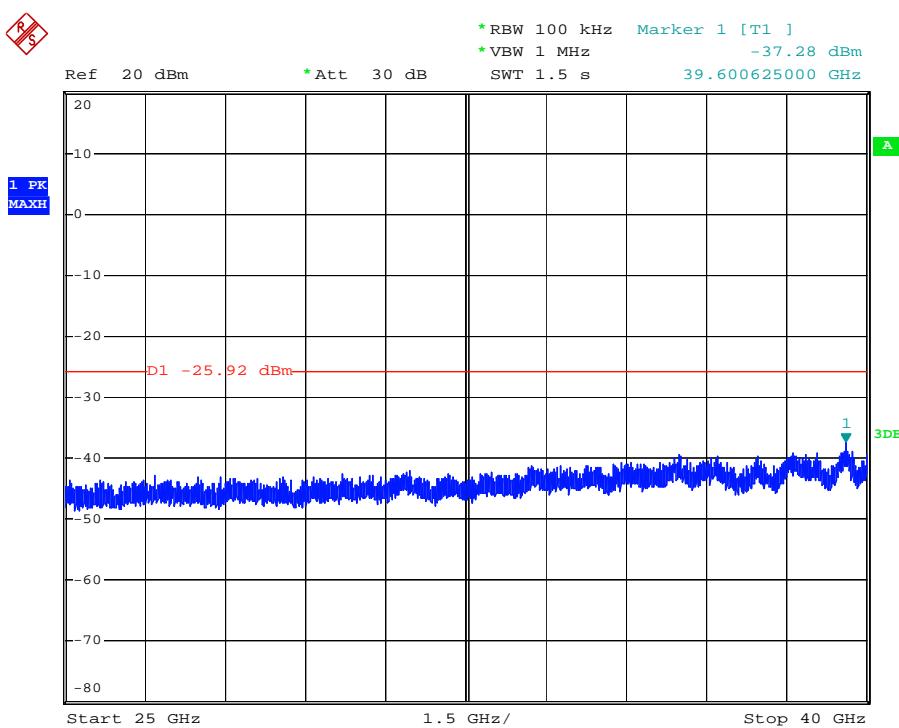
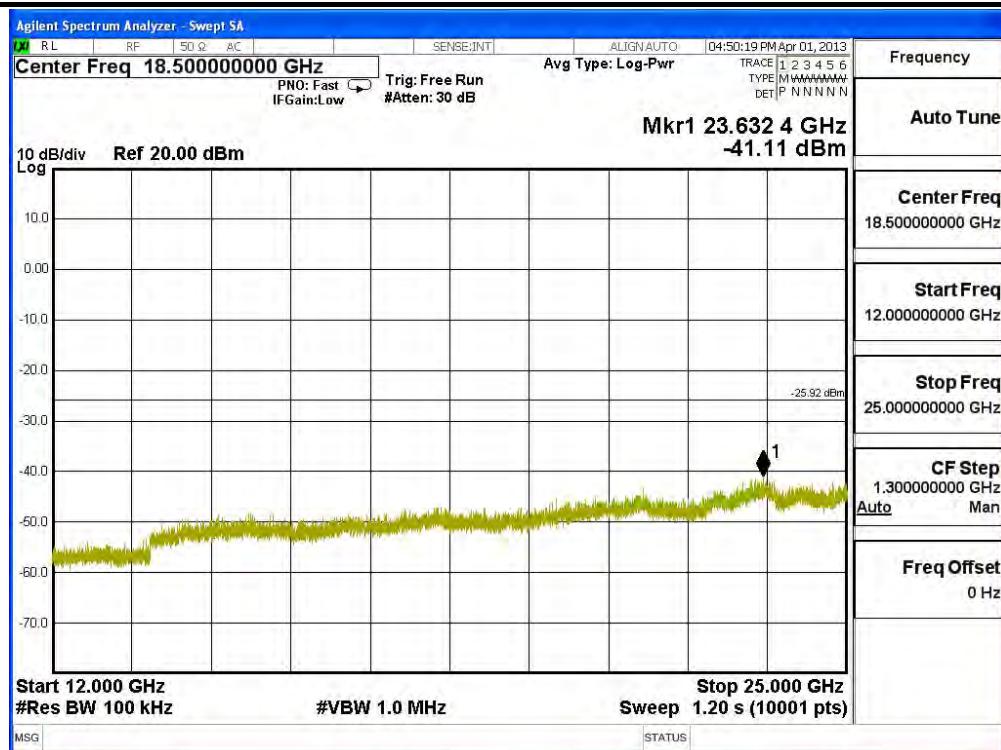


Date: 21.FEB.2003 20:28:29

Product : TABLET PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

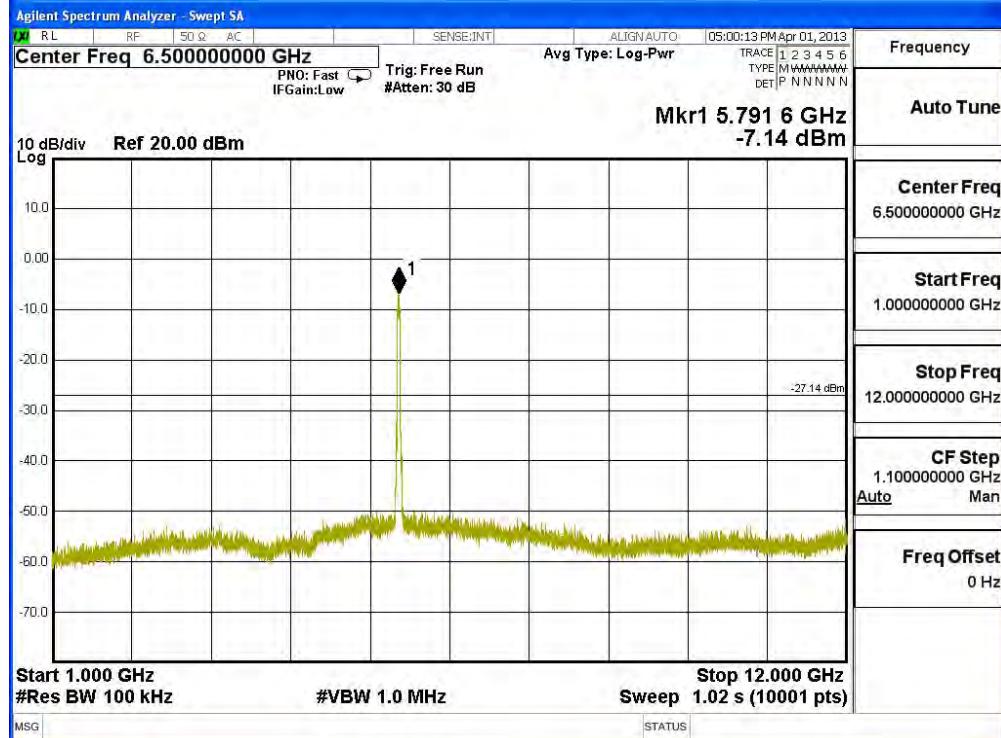
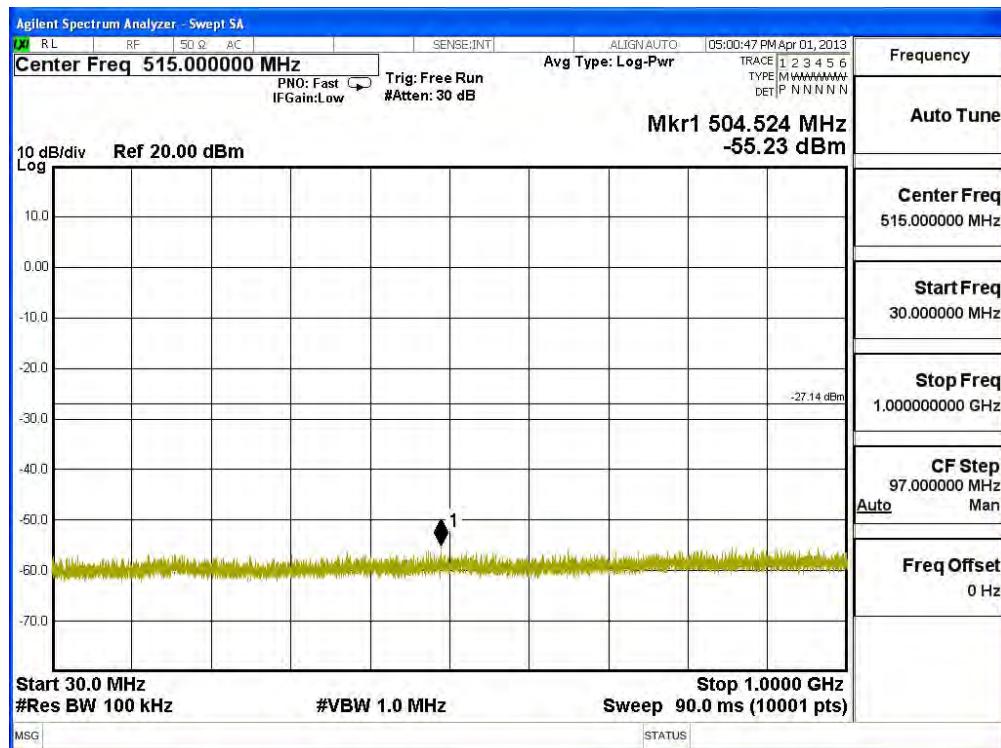
Channel 151 (5755MHz) 30MHz -40GHz-Chain A

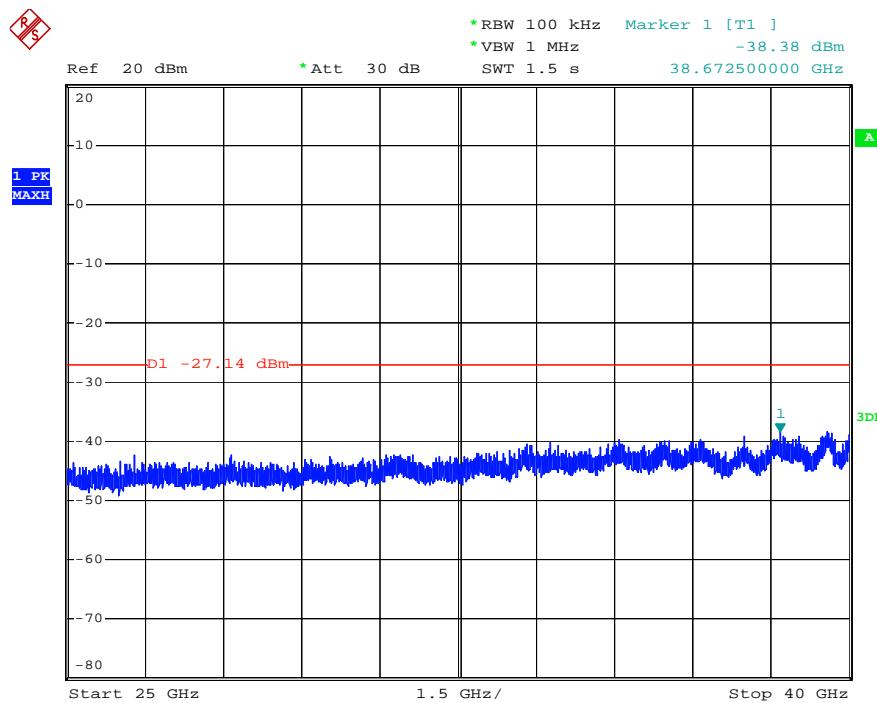
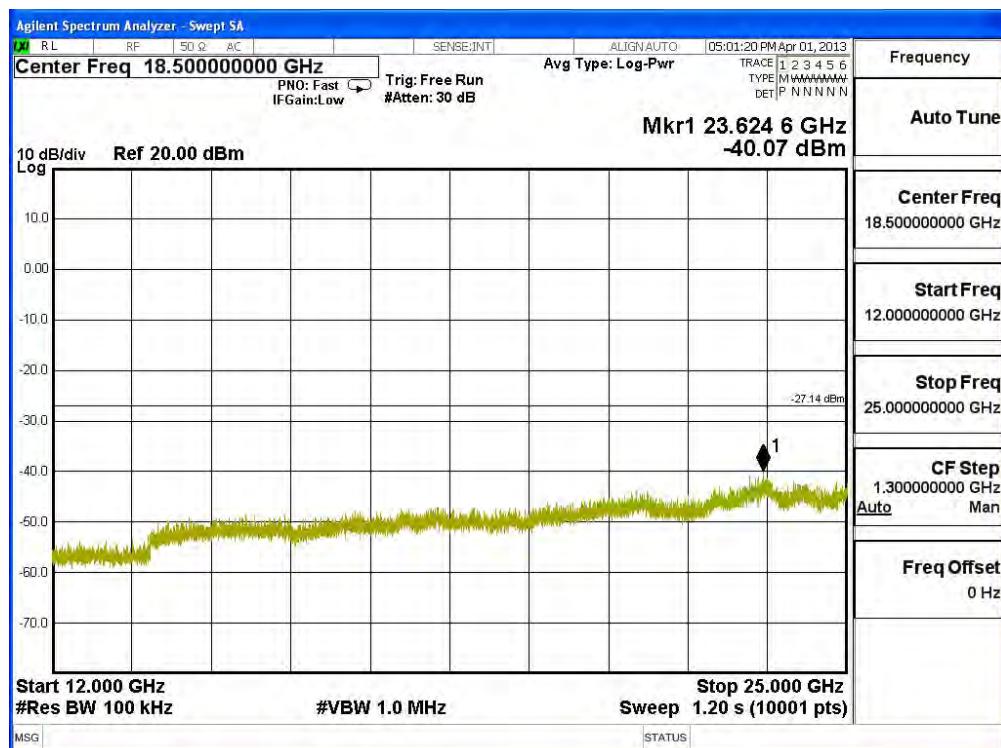




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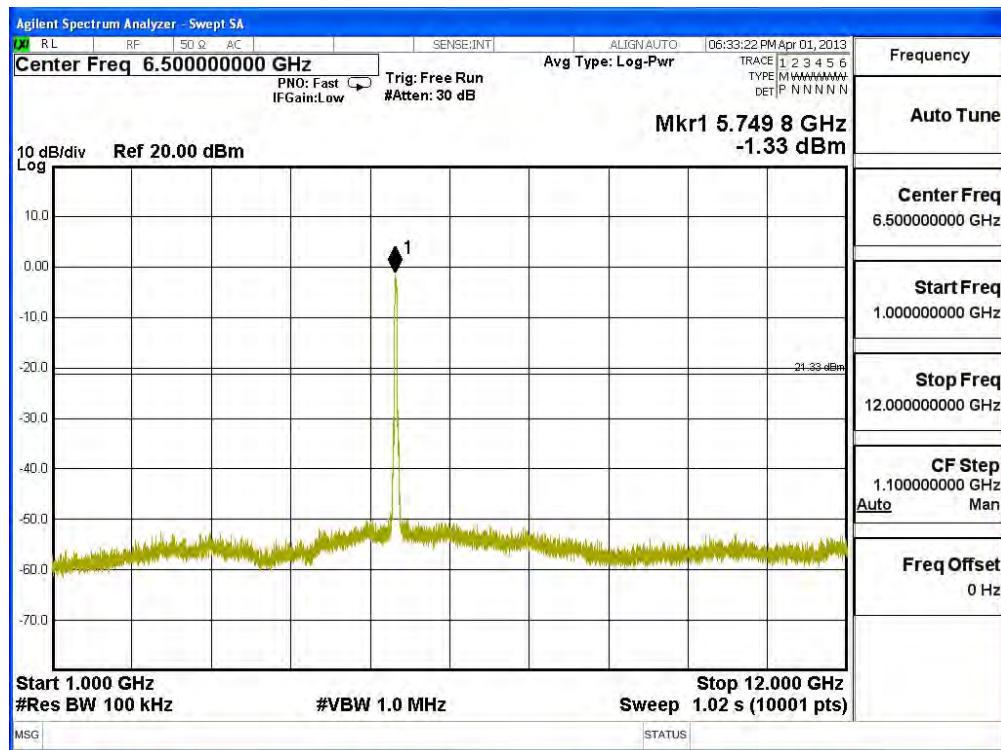
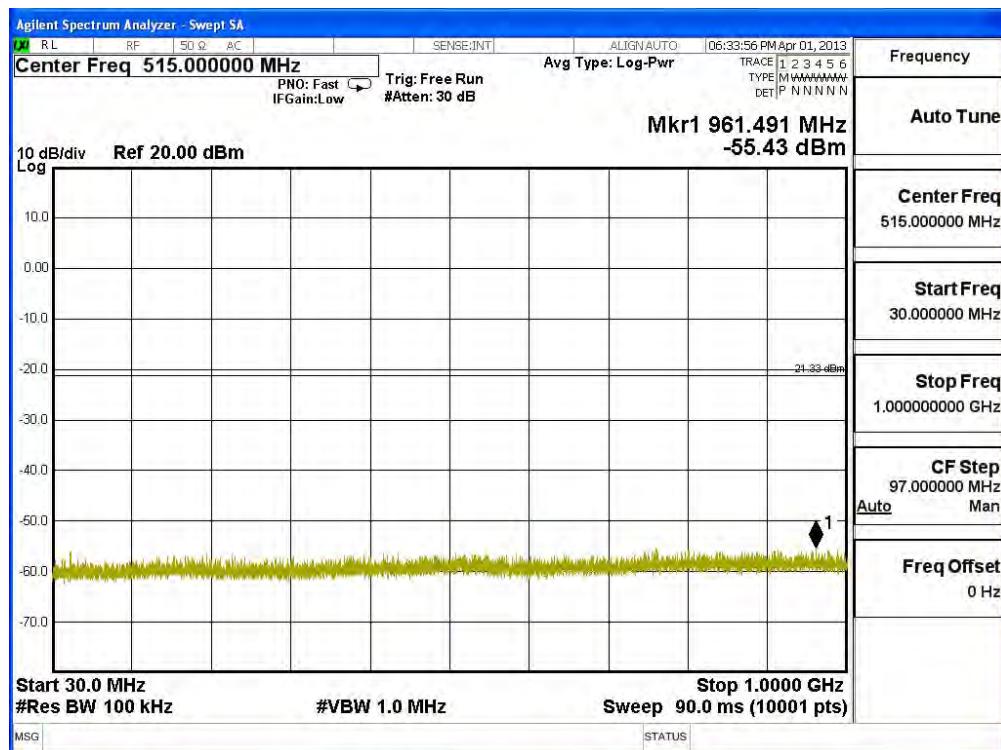
Channel 159 (5795MHz) 30MHz -40GHz-Chain A

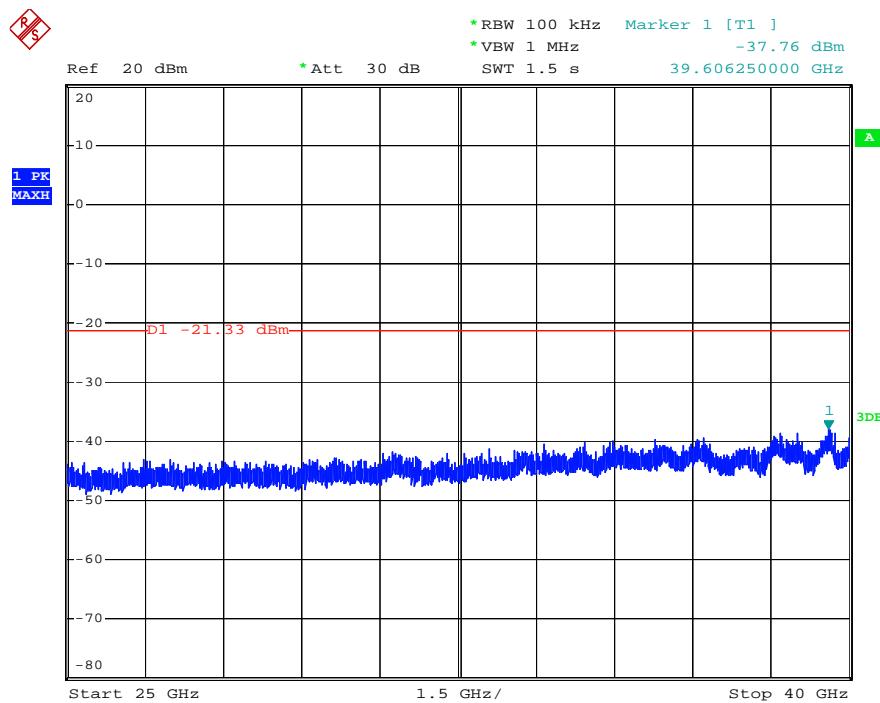
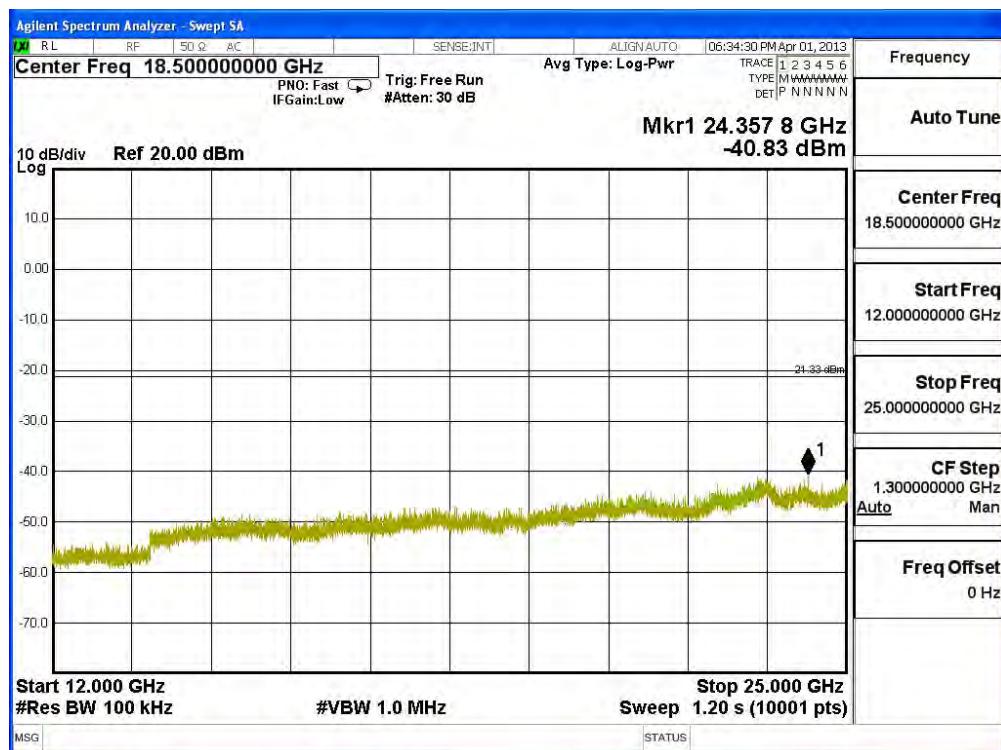




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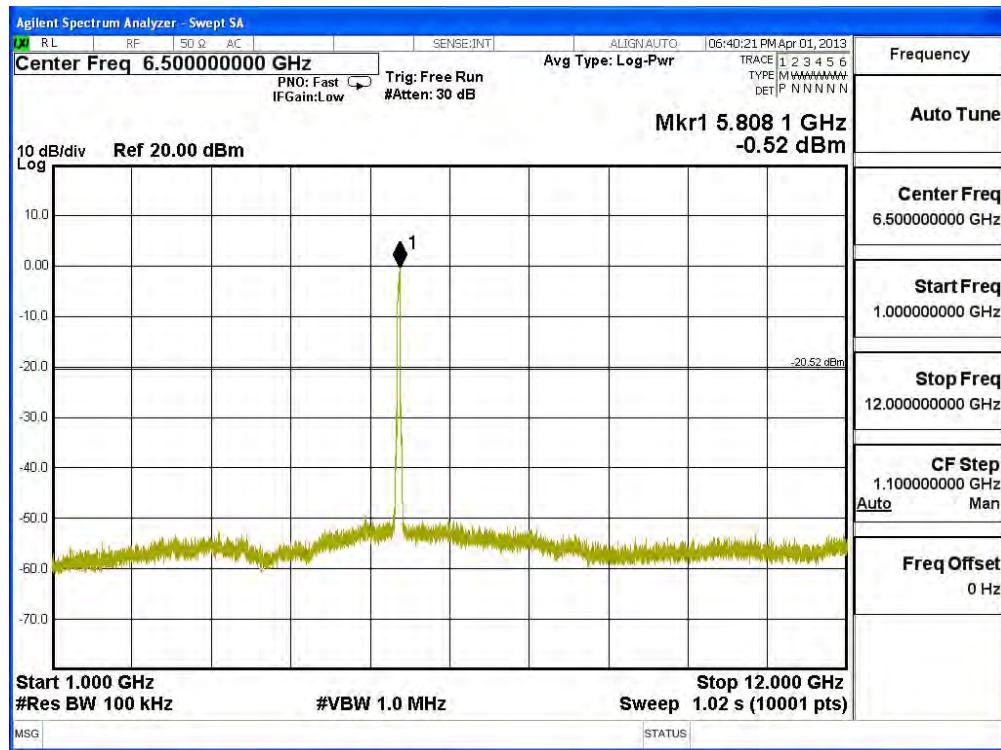
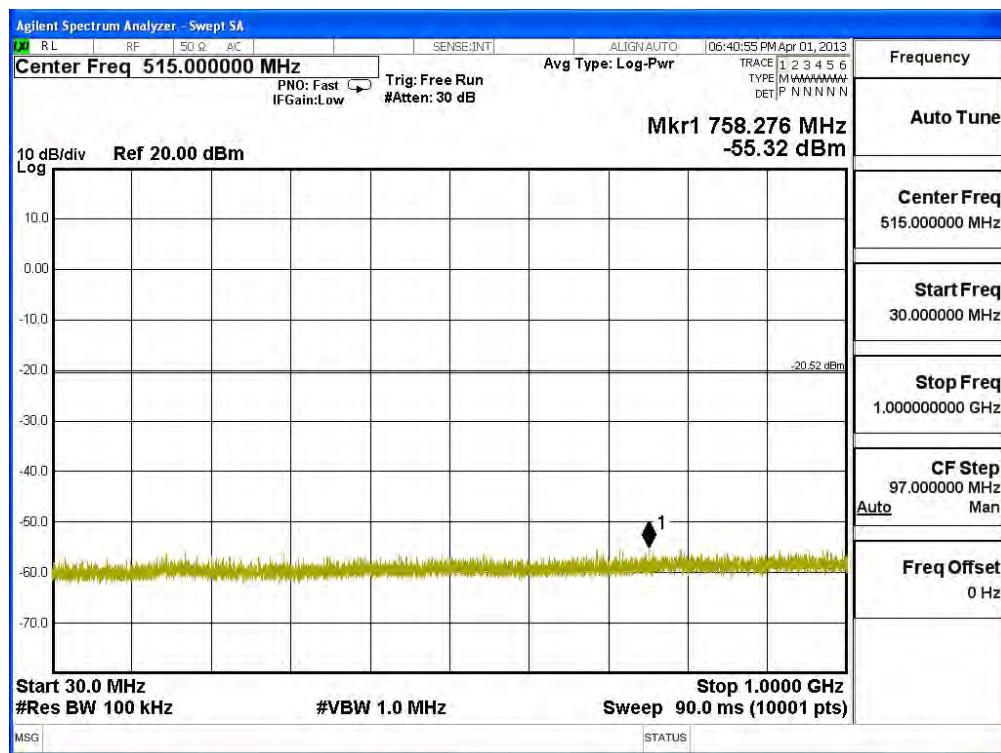
Channel 151 (5755MHz) 30MHz -40GHz-Chain B

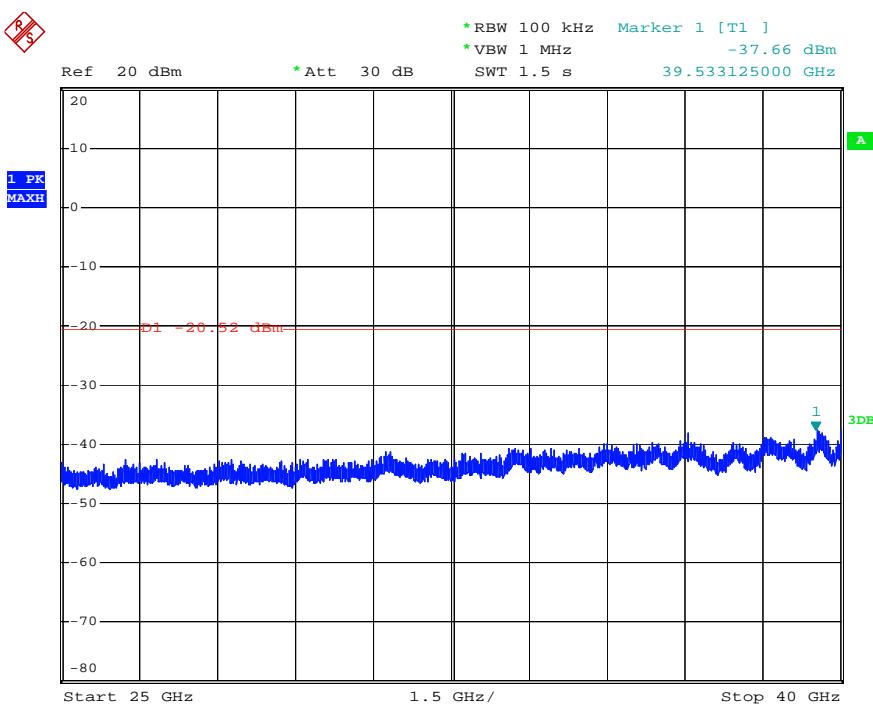
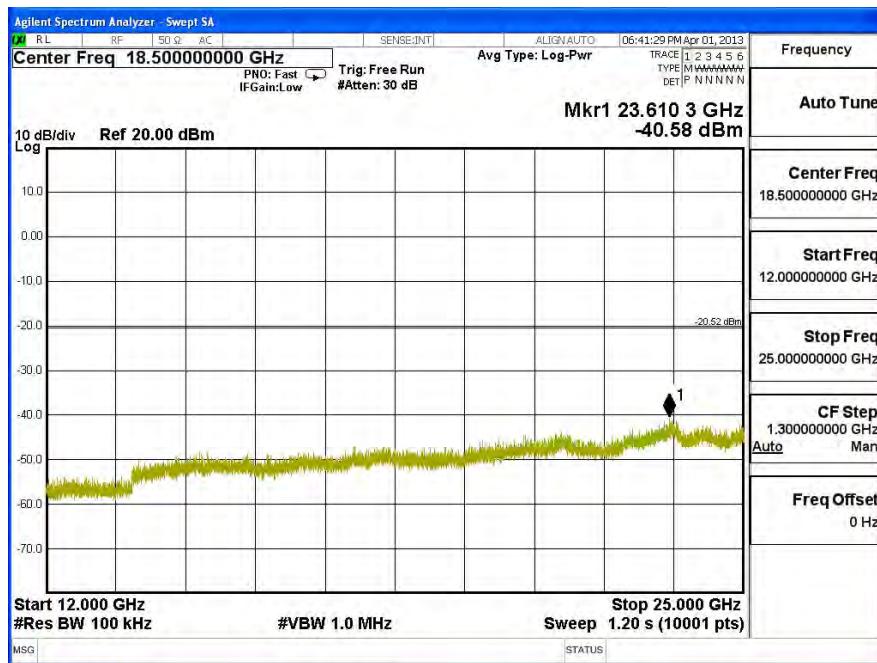




Date: 21.FEB.2003 20:31:41

Channel 159 (5795MHz) 30MHz -40GHz-Chain B





Date: 21.FEB.2003 20:34:42