FCC RADIO TEST REPORT
FCC ID: Y34-UITASM

Product：	iDISPLAY TABLET
Trade Name：	I-DISPLAY
Model Name：	UIT207A-B05
Serial Model：	UIM200A-XYY,UIT207X-XYY,UIT210X-XYY, UIT215X-XYY,UIT218X-XYY,UIT221X-XYY, UIA215X-XYY,UIA218X-XYY,UIA221X-XYY（The X is A-Z ,It represents the color, YY is client number from 01 to 50）.
Report No.：	NTEK-2014NT0307235F1

Prepared for

Outform Ltd

R405,East,Buliding 203,Tai Ran Industrial Zone,Chengongmiao,Futian, Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	Outform Ltd
Address	R405,East,Buliding 203,Tai Ran Industrial Zone, Chengongmiao,Futian, Shenzhen,China
Manufacture's Name...	Outform Ltd
Address	R405,East,Buliding 203,Tai Ran Industrial Zone, Chengongmiao,Futian, Shenzhen,China
Product description	
Product name	iDISPLAY TABLET
Model and/or type reference	UIT207A-B05
Serial Model	UIM200A-XYY,UIT207X-XYY,UIT210X-XYY, UIT215X-XYY,UIT218X-XYY,UIT221X-XYY, UIA215X-XYY,UIA218X-XYY,UIA221X-XYY（The X is A-Z ,It represents the color, YY is client number from 01 to 50）.
Standards	FCC Part15.247
Test procedure	ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test	
Date (s) of performance of tests	07 Mar. 2014 ~01 Apr. 2014
Date of Issue.....	01 Apr. 2014
Test Result.....	**Pass**

Testing Engineer : Apple Huang

(Apple Huang)

Technical Manager : Brown Lu

(Brown Lu)

Authorized Signatory : Bovey Yang

(Bovey Yang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)” N/A” denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd
Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.
FCC Registration No.:238937; IC Registration No.:9270A-1
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>iDISPLAY TABLET</td></tr>
<tr><td>Trade Name</td><td>I-DISPLAY</td></tr>
<tr><td>Model Name</td><td>UIT207A-B05</td></tr>
<tr><td>Serial Model</td><td>UIM200A-XYY,UIT207X-XYY,UIT210X-XYY,
UIT215X-XYY,UIT218X-XYY,UIT221X-XYY,
UIA215X-XYY,UIA218X-XYY,UIA221X-XYY（The X is A-Z ,It represents the color, YY is client number from 01 to 50）.</td></tr>
<tr><td>Model Difference</td><td>All the models are the same circuit and RF module, except the mode names and colours.</td></tr>
<tr><td>Product Description</td><td>The EUT is a iDISPLAY TABLET
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n(20MHz): 2412~2462MHz
802.11n(40MHz):2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>CCK/OFDM/DBPSK/DAPSK</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps
802.11n(20MHz/40MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps</td></tr>
<tr><td>Number Of Channel</td><td>802.11b/g/n20MHz:11CH
802.11n40MHz:7CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Output Power(Conducted):</td><td>802.11b: 12.73 dBm (Max.)
802.11g: 11.86 dBm (Max.)
802.11n(20M): 10.41 dBm (Max.)
802.11n(40M): 9.91 dBm (Max.)</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>1.0dbi</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Ratings</td><td>DC 12 V, 2000mA</td></tr>
<tr><td>Adapter</td><td>Model:FJ-SW1202000N
Input: 100-240V~50/60Hz, 0.6A MAX
Output: 12V⎓, 2000mA</td></tr>
<tr><td>Battery</td><td>DC 3.7V, 4300mAh</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the User's Manual.

2.

Channel List for 802.11b/g/n(20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	FPCB Antenna	N/A	1.0	Wifi Antenna

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/20MHz CH1/ CH6/ CH11
Mode 4	802.11n/40MHz CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n/20MHz CH1/ CH6/ CH11
Mode 4	802.11n/40MHz CH3/ CH6/ CH9

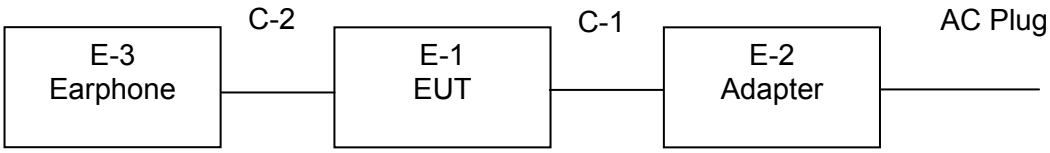
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

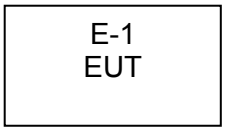
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	iDISPLAY TABLET	I-DISPLAY	UIT207A-B05	N/A	EUT
E-2	Adapter	N/A	FJ-SW1202000N	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	0.8m	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.06.07	2014.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2013.06.07	2014.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.07	2014.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2013.07.06	2014.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.08	2014.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2013.07.06	2014.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2013.07.06	2014.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2013.06.06	2014.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2013.06.07	2014.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.07	2014.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.08	2014.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2013.06.08	2014.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

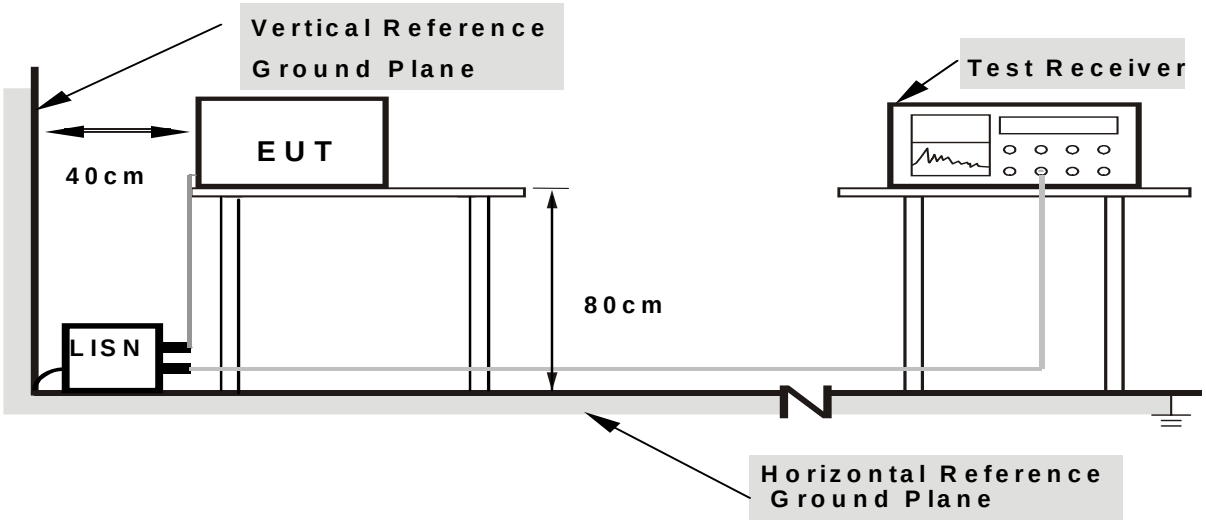
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

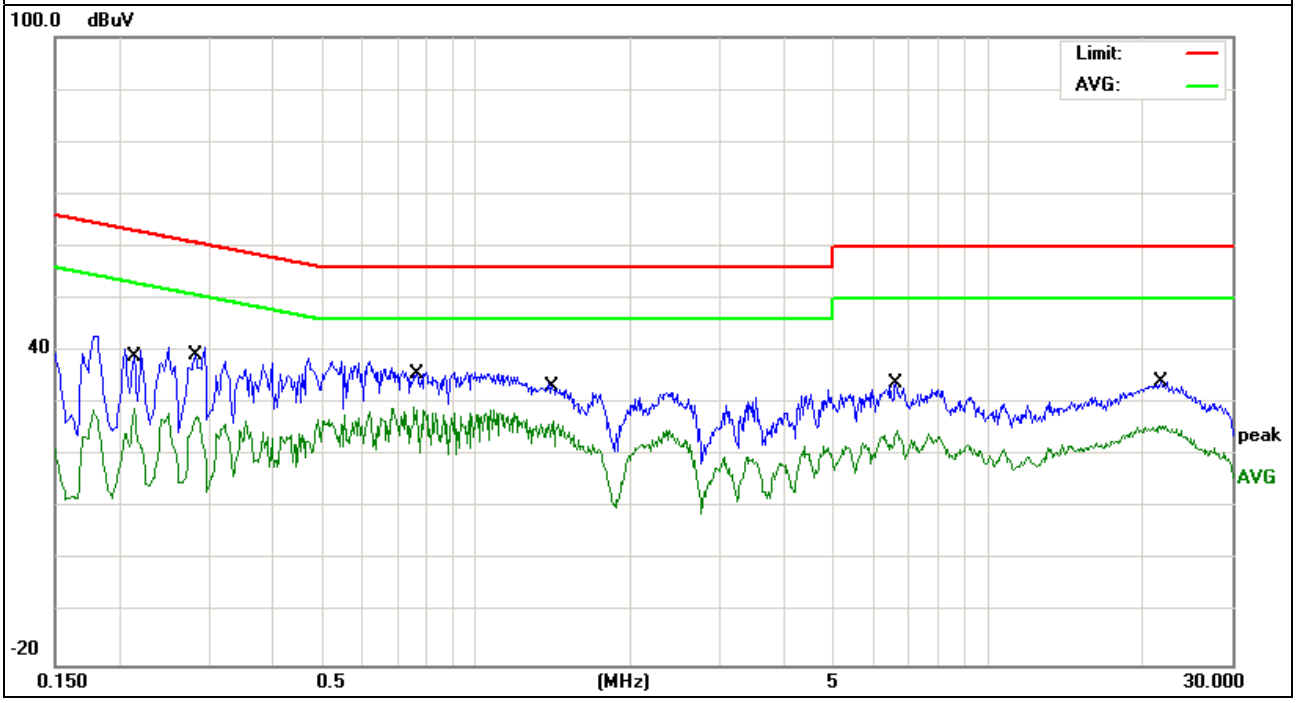
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

EUT：	iDISPLAY TABLET	Model Name. ：	UIT207A-B05
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 12V form Adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2140	28.25	10.71	38.96	63.04	-24.08	QP
0.2140	18.37	10.71	29.08	53.04	-23.96	AVG
0.2860	25.91	10.91	36.82	60.64	-23.82	QP
0.2860	16.78	10.91	27.69	50.64	-22.95	AVG
0.7580	24.74	10.53	35.27	56.00	-20.73	QP
0.7580	18.97	10.53	29.50	46.00	-16.50	AVG
1.4180	22.13	10.52	32.65	56.00	-23.35	QP
1.4180	16.04	10.52	26.56	46.00	-19.44	AVG
6.6300	20.78	10.73	31.51	60.00	-28.49	QP
6.6300	13.97	10.73	24.70	50.00	-25.30	AVG
21.6980	22.11	11.09	33.20	60.00	-26.80	QP
21.6980	14.58	11.09	25.67	50.00	-24.33	AVG

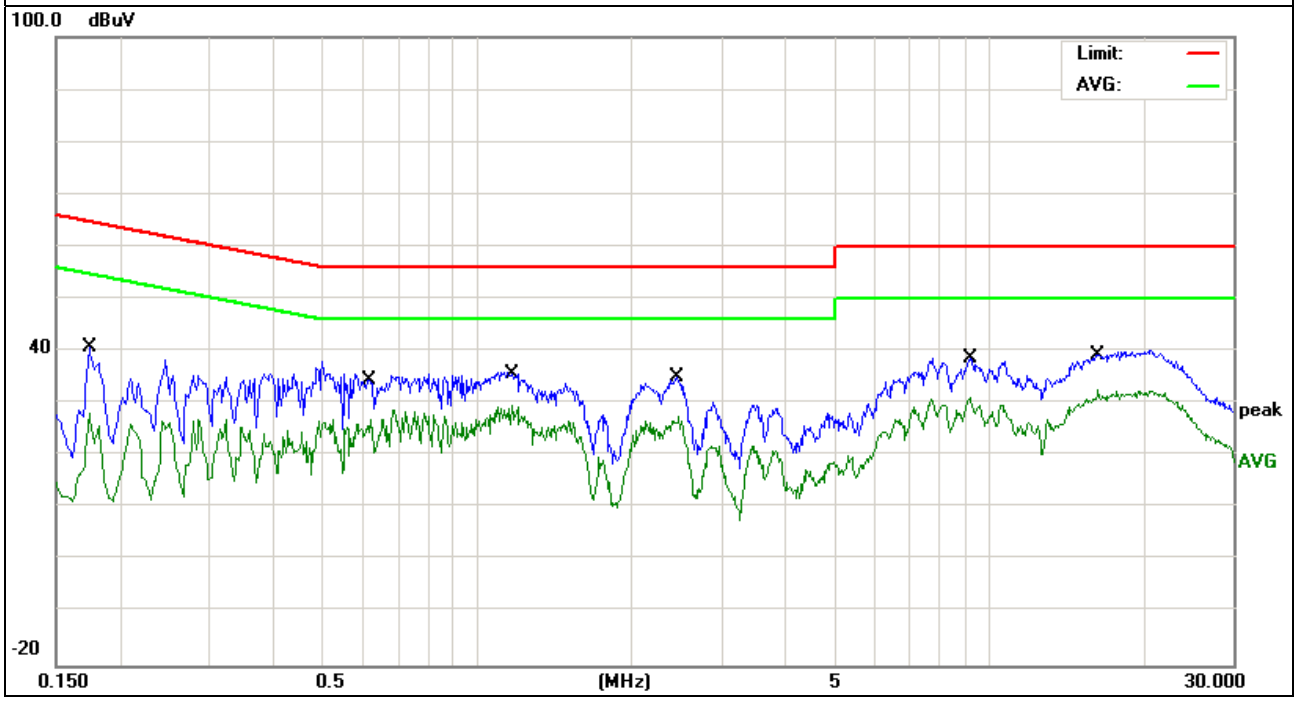
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	iDISPLAY TABLET	Model Name. ：	UIT207A-B05
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 12V form Adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1740	29.54	11.10	40.64	64.76	-24.12	QP
0.1740	17.16	11.10	28.26	54.76	-26.50	AVG
0.6180	23.52	10.55	34.07	56.00	-21.93	QP
0.6180	16.49	10.55	27.04	46.00	-18.96	AVG
1.1660	25.16	10.52	35.68	56.00	-20.32	QP
1.1660	19.00	10.52	29.52	46.00	-16.48	AVG
2.4739	23.90	10.53	34.43	56.00	-21.57	QP
2.4739	17.04	10.53	27.57	46.00	-18.43	AVG
9.1620	27.63	10.81	38.44	60.00	-21.56	QP
9.1620	20.31	10.81	31.12	50.00	-18.88	AVG
16.3460	28.18	10.96	39.14	60.00	-20.86	QP
16.3460	21.56	10.96	32.52	50.00	-17.48	AVG

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / *10Hz* for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

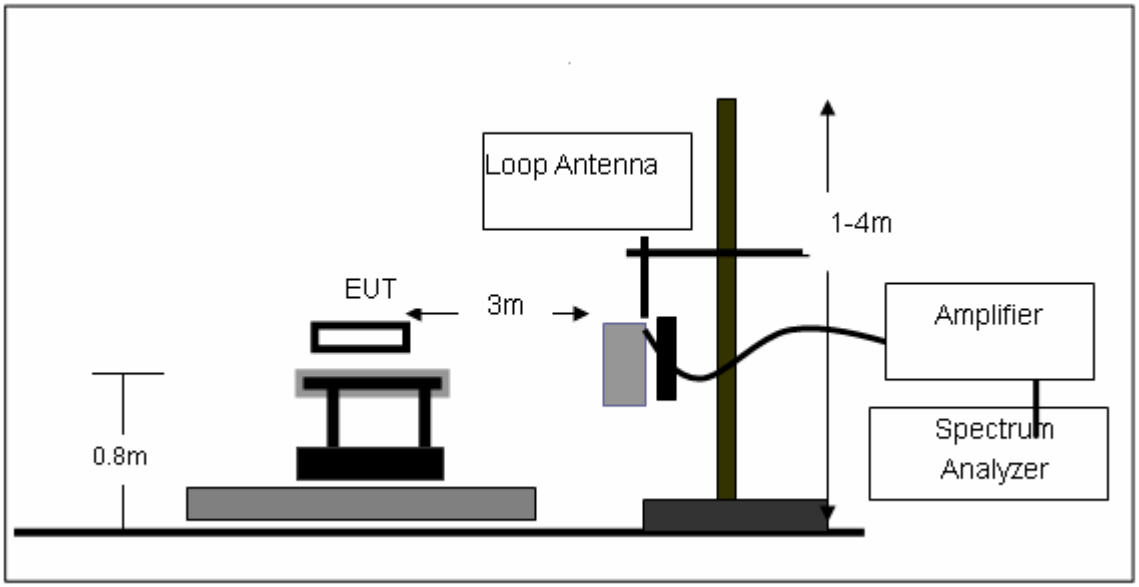
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

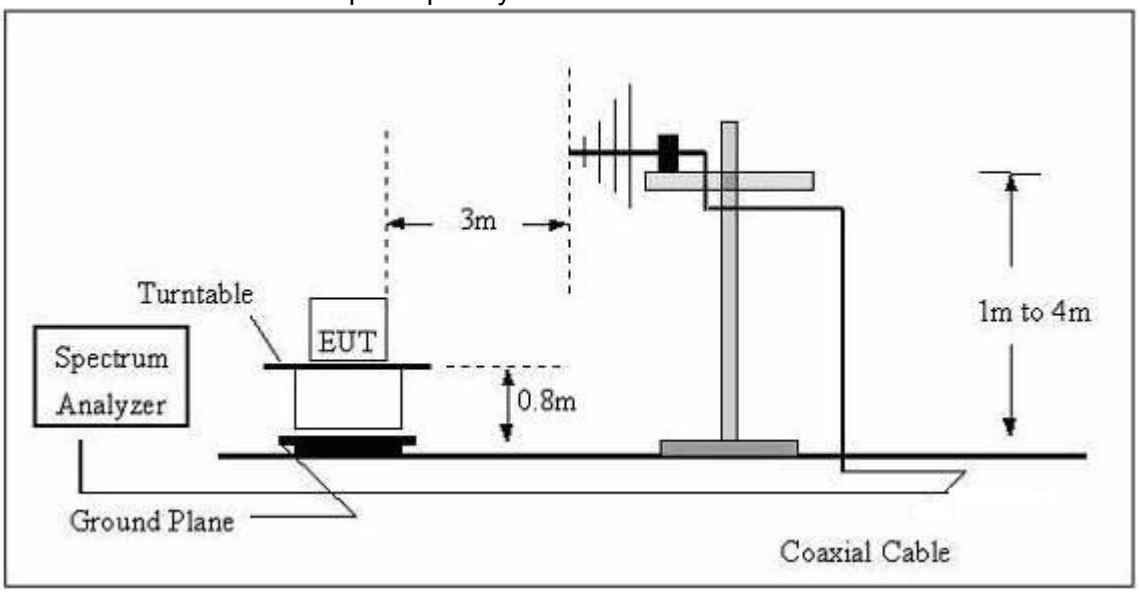
No deviation

3.2.4 TEST SETUP

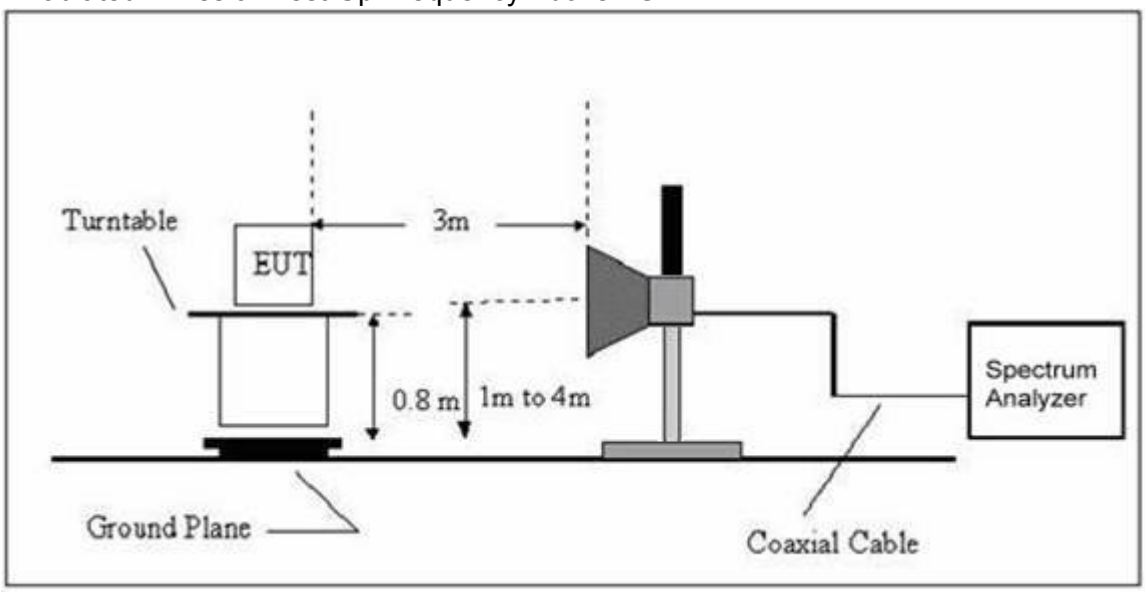
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	iDISPLAY TABLET	Model Name. ：	UIT207A-B05
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Below 1G							
31.9546	13.74	17.47	31.21	40.00	-8.79	QP	Vertical
44.5868	23.35	10.82	34.17	40.00	-5.83	QP	Vertical
148.4410	15.87	11.83	27.70	43.50	-15.80	QP	Vertical
197.8928	18.90	8.99	27.89	43.50	-15.61	QP	Vertical
297.2241	16.82	14.70	31.52	46.00	-14.48	QP	Vertical
842.1296	15.47	27.46	42.93	46.00	-3.07	QP	Vertical
41.5670	8.83	12.48	21.31	40.00	-18.69	QP	Horizontal
148.4410	16.88	11.83	28.71	43.50	-14.79	QP	Horizontal
197.8928	21.18	8.99	30.17	43.50	-13.33	QP	Horizontal
247.6819	23.05	13.11	36.16	46.00	-9.84	QP	Horizontal
297.2241	25.27	14.70	39.97	46.00	-6.03	QP	Horizontal
842.1296	14.53	27.46	41.99	46.00	-4.01	QP	Horizontal

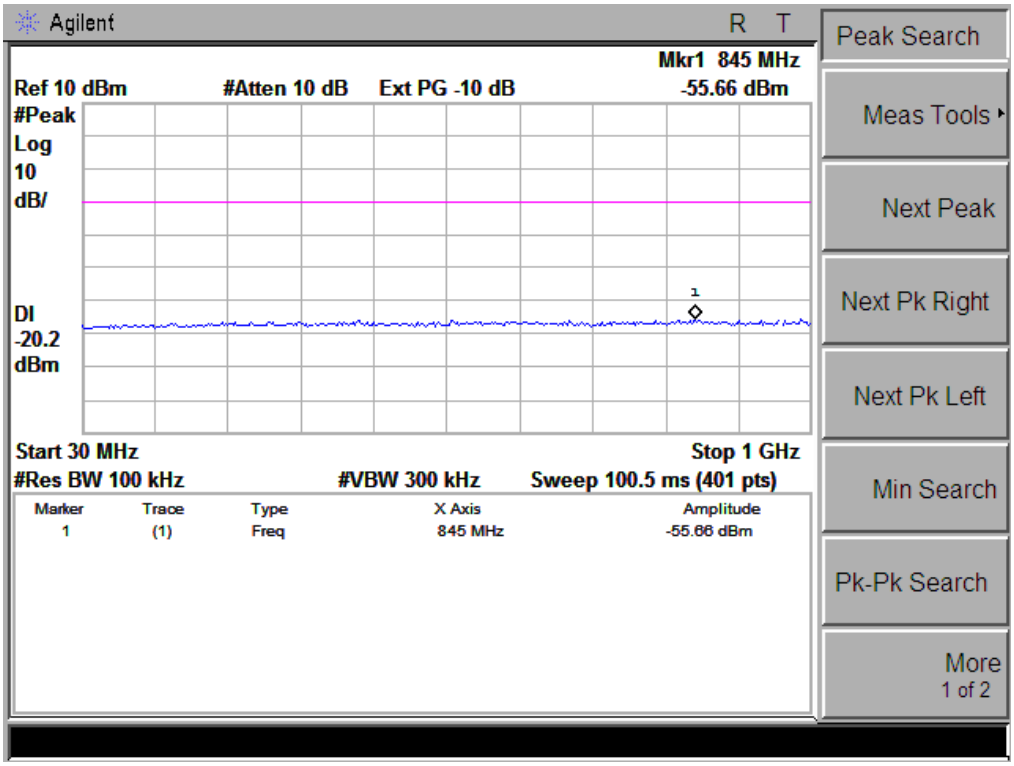
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

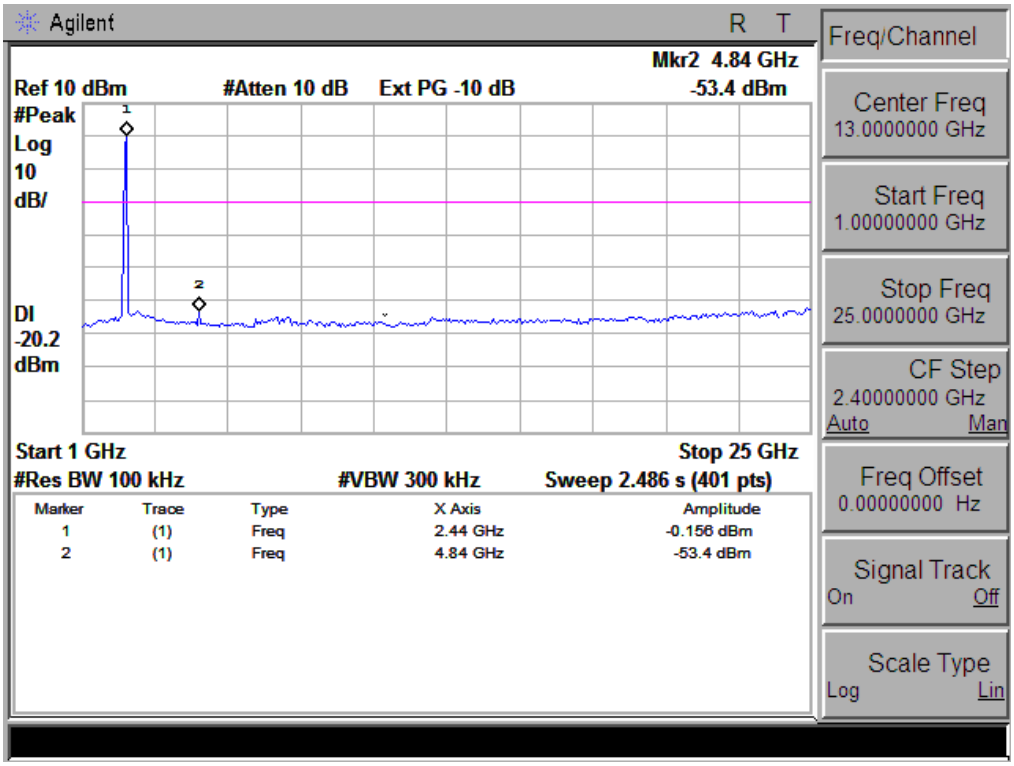
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect or Type	Comment
Low Channel (2412 MHz)-Above 1G							
4824.000	47.15	10.44	57.59	74.0	-16.41	Pk	Vertical
4824.000	30.01	10.44	40.45	54.0	-13.55	Av	Vertical
7236.000	36.88	12.39	49.27	74.0	-24.73	Pk	Vertical
4824.000	44.58	10.44	55.02	74.0	-18.98	Pk	Horizontal
4824.000	28.17	10.44	38.61	54.0	-15.39	Av	Horizontal
7236.000	30.06	12.39	42.45	74.0	-31.55	Pk	Horizontal
Mid Channel (2437 MHz)-Above 1G							
4874.000	48.36	10.40	58.76	74.0	-15.24	Pk	Vertical
4874.000	32.34	10.40	42.74	54.0	-11.26	Av	Vertical
7311.000	38.26	12.75	51.01	74.0	-22.99	Pk	Vertical
4874.000	47.13	10.40	57.53	74.0	-16.47	Pk	Horizontal
4874.000	30.47	10.40	40.87	54.0	-13.13	Av	Horizontal
7311.000	31.76	12.75	44.51	74.0	-29.49	Pk	Horizontal
High Channel (2462 MHz)- Above 1G							
4924.000	47.88	10.39	58.27	74.0	-15.73	Pk	Vertical
4924.000	31.05	10.39	41.44	54.0	-12.56	Av	Vertical
7386.000	34.55	12.68	47.23	74.0	-26.77	Pk	Vertical
4924.000	45.69	10.39	56.08	74.0	-17.92	Pk	Horizontal
4924.000	30.43	10.39	40.82	54.0	-13.18	Av	Horizontal
7386.000	32.08	12.68	44.76	74.0	-29.24	Pk	Horizontal

Note:”802.11b” mode is the worst mode.

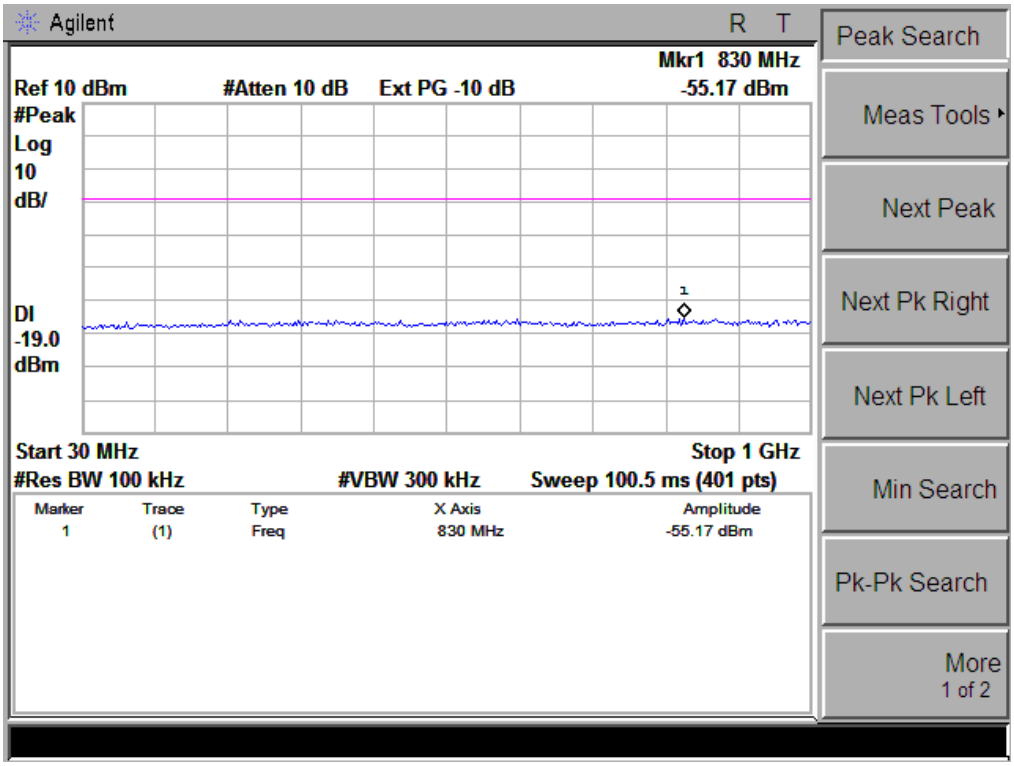
Conducted Spurious Emissions at Antenna Port:

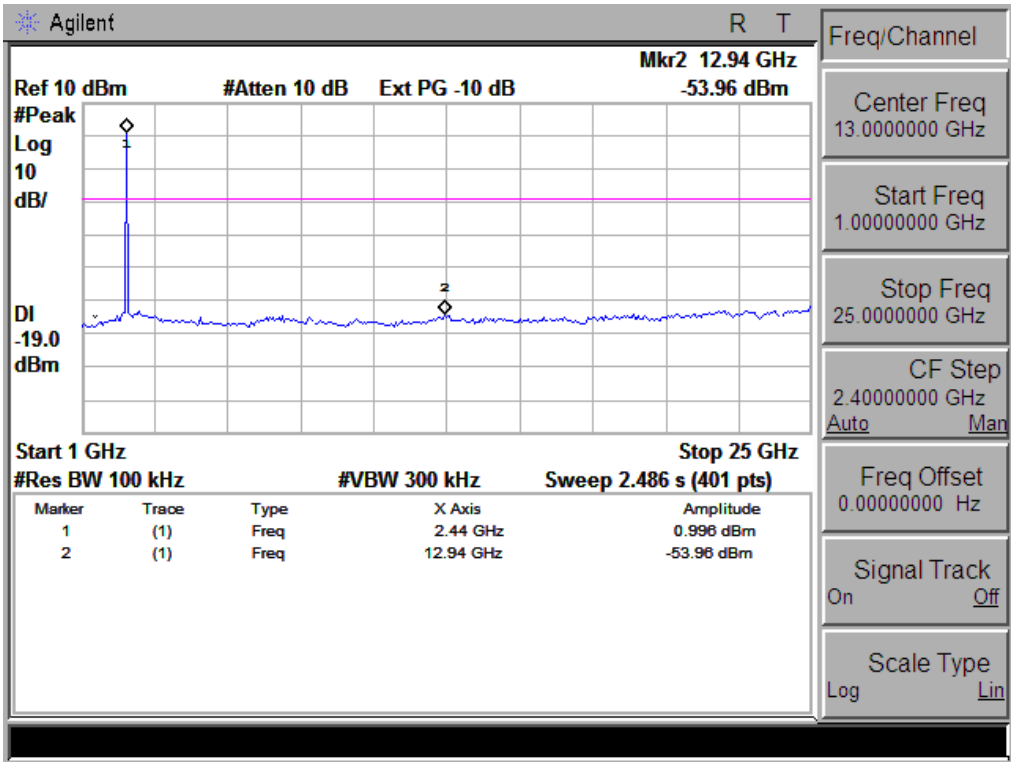
802.11b Low Channel



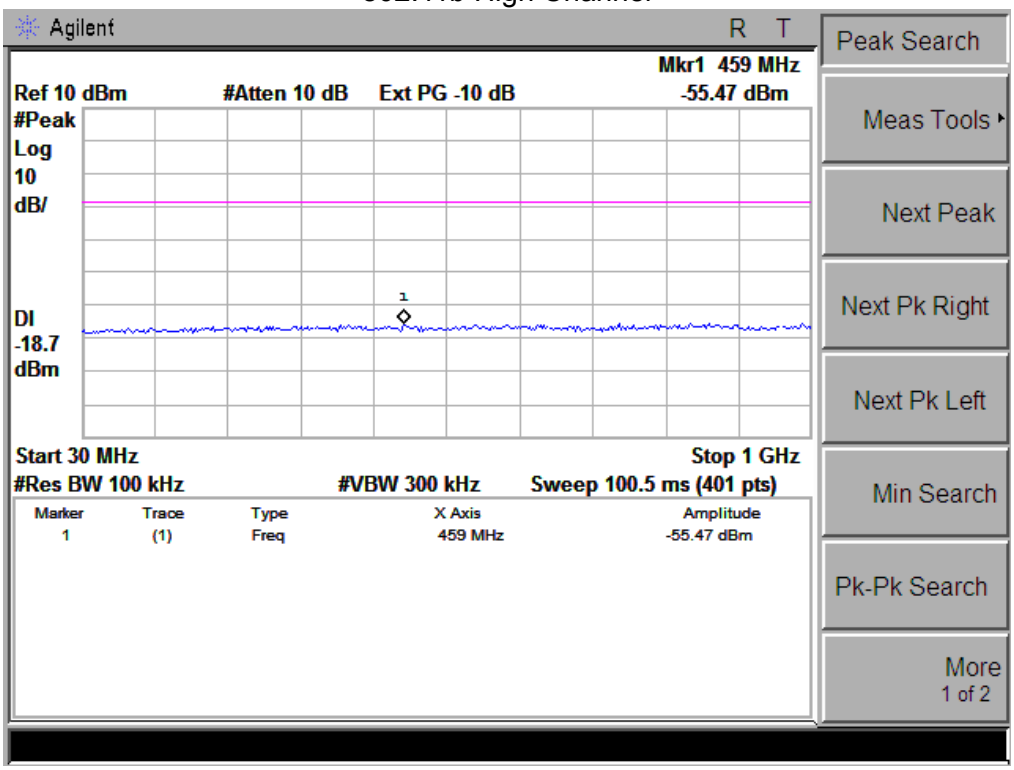


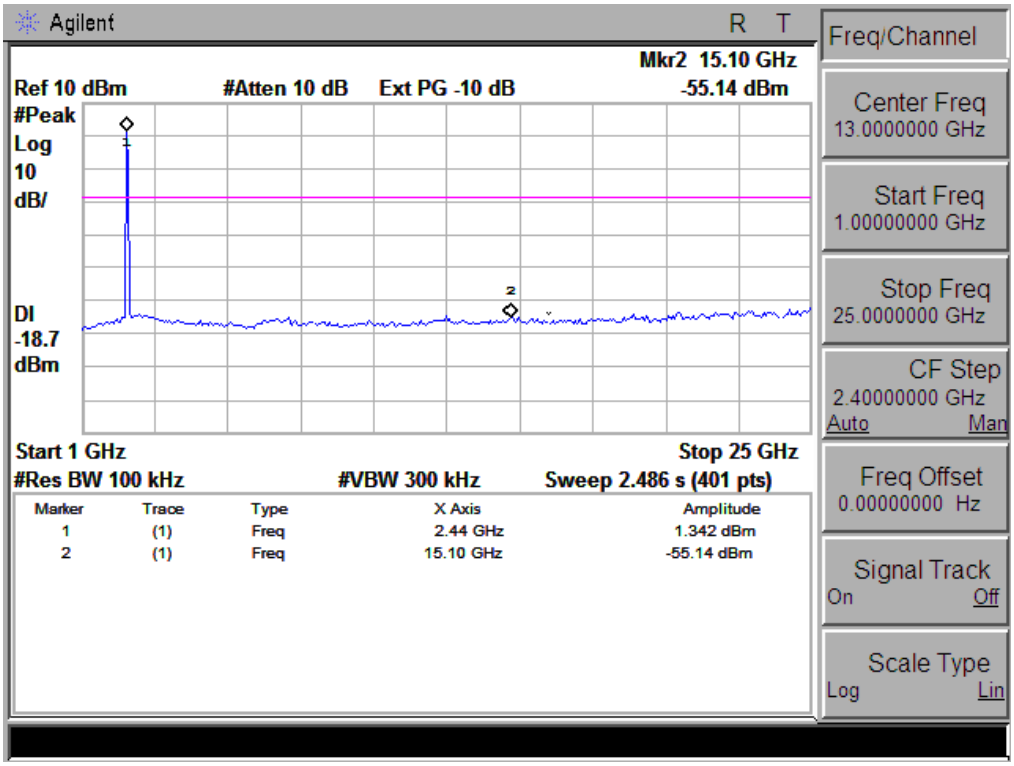
802.11b Middle Channel



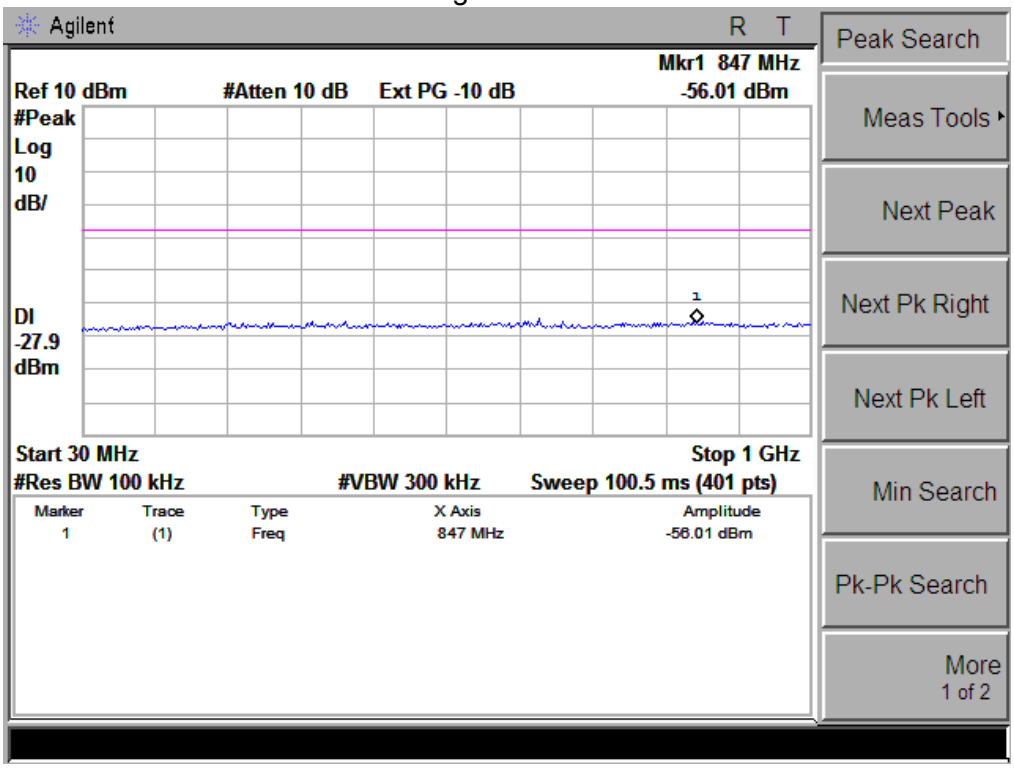


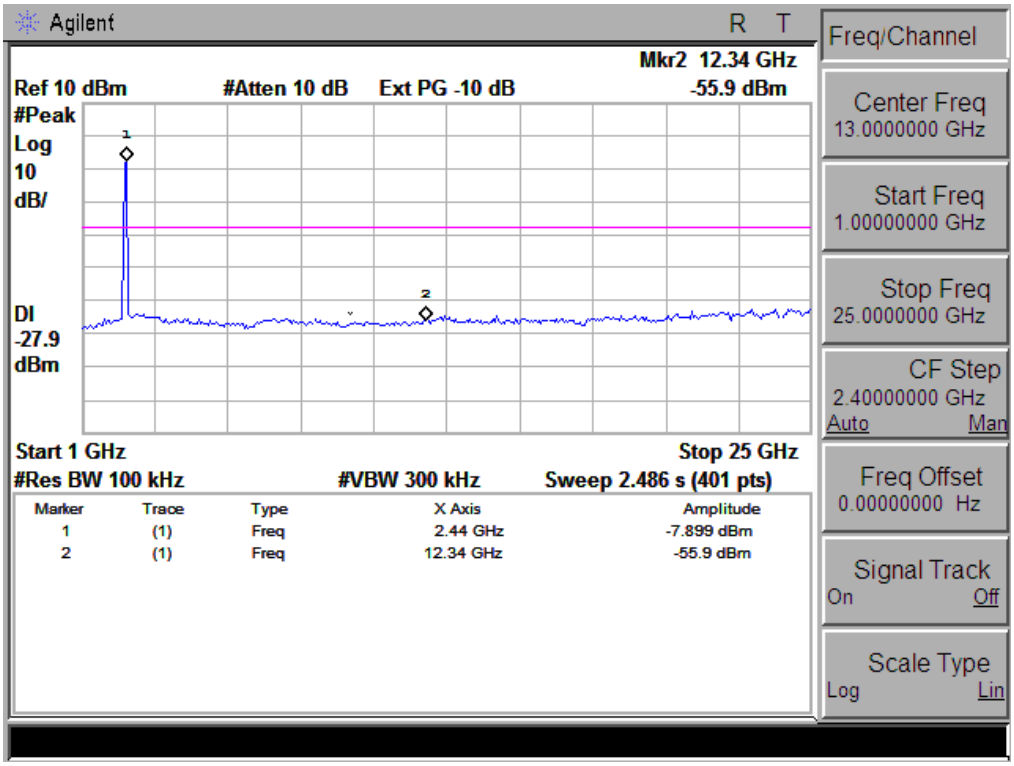
802.11b High Channel



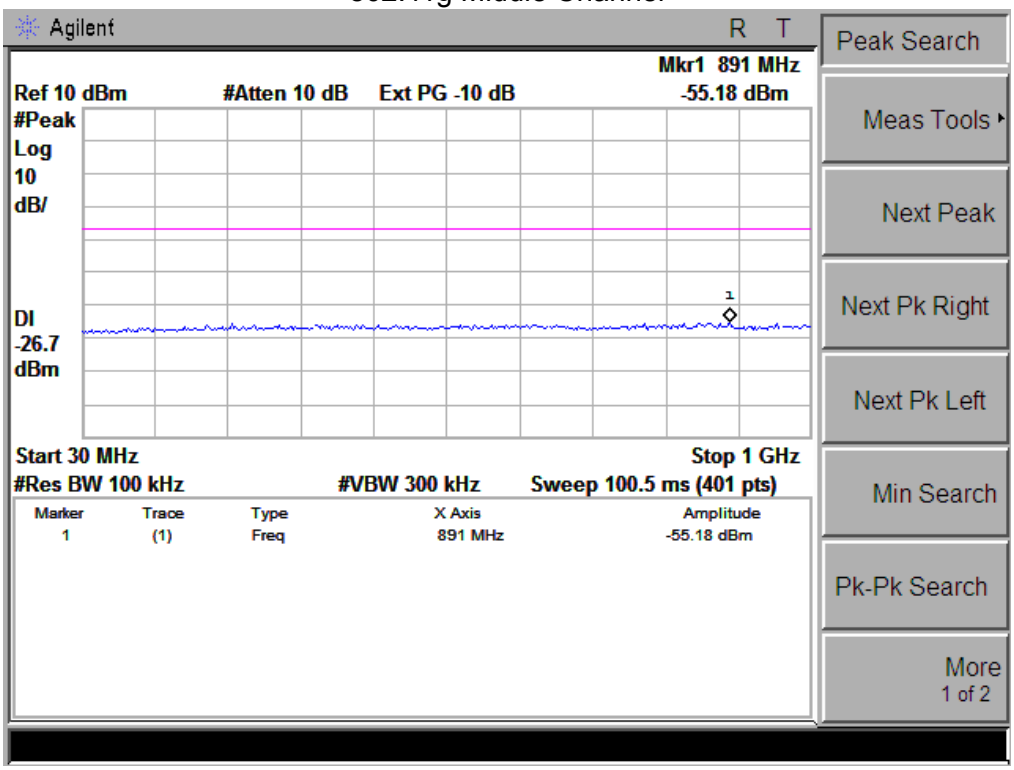


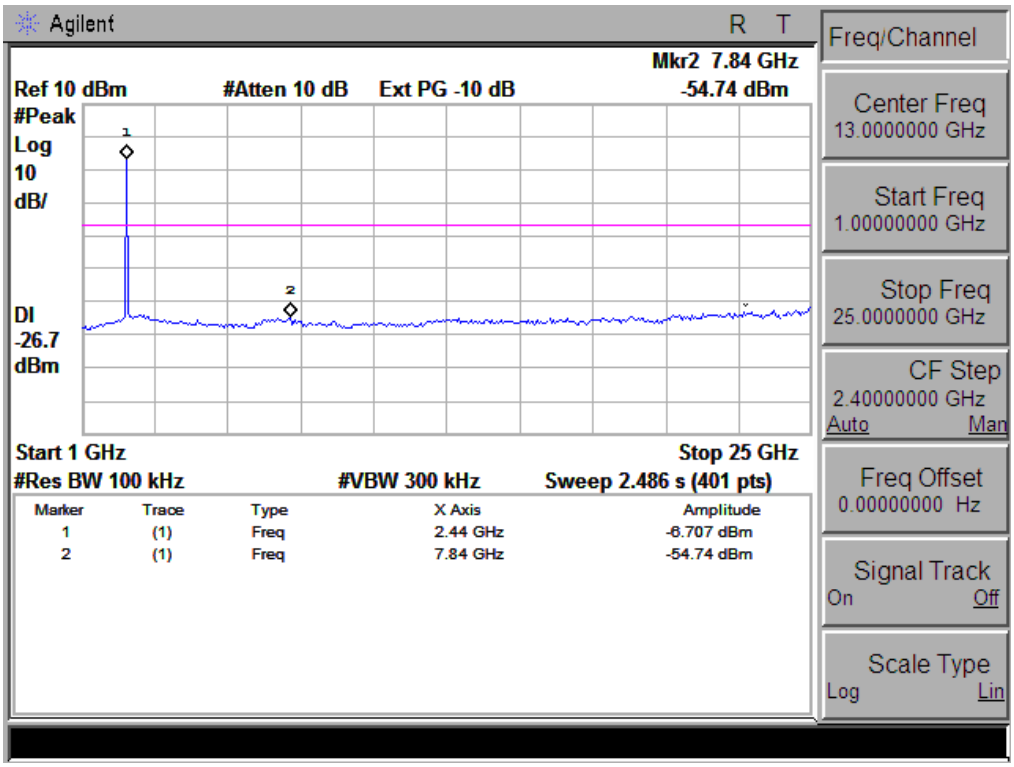
802.11g Low Channel



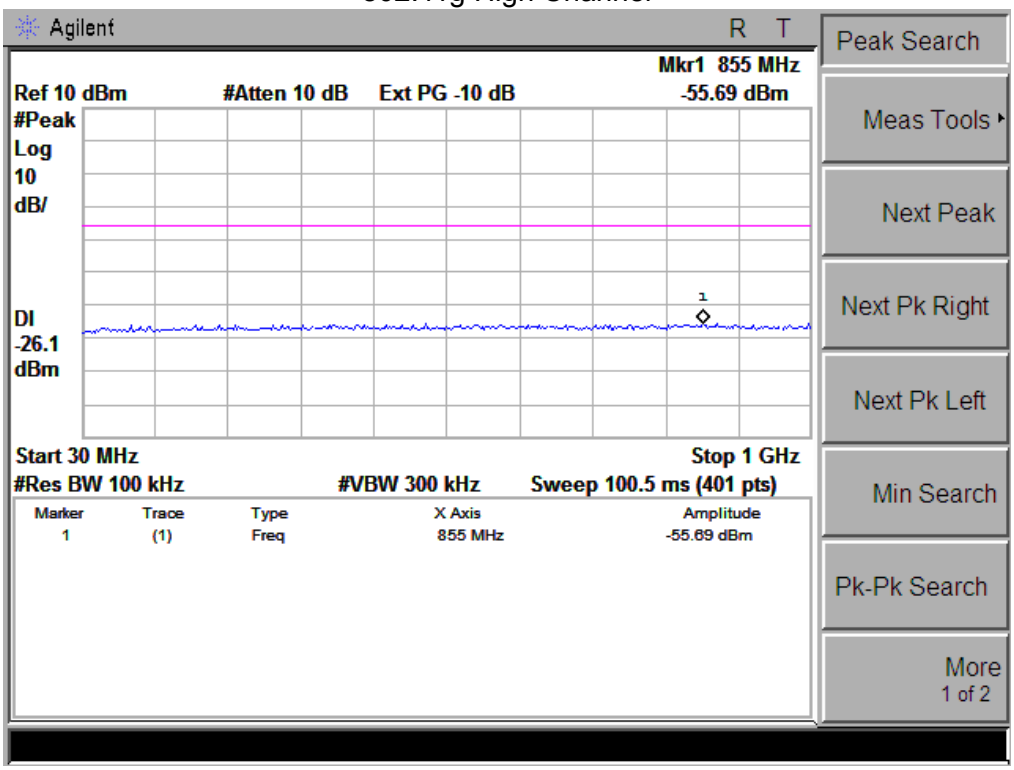


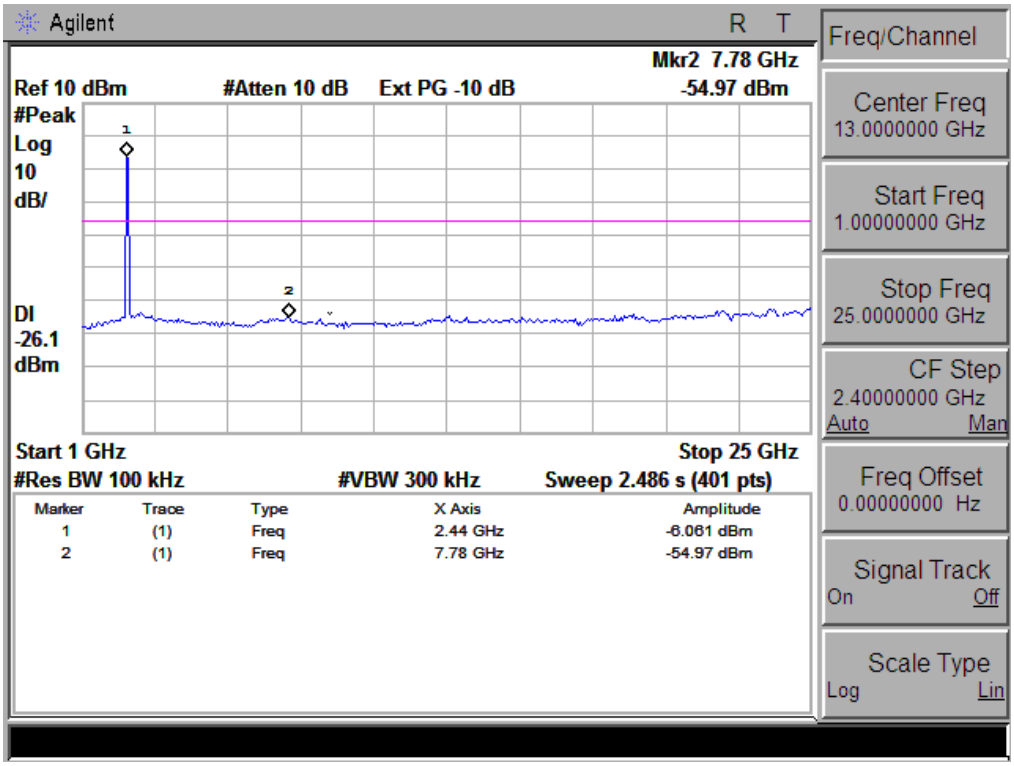
802.11g Middle Channel



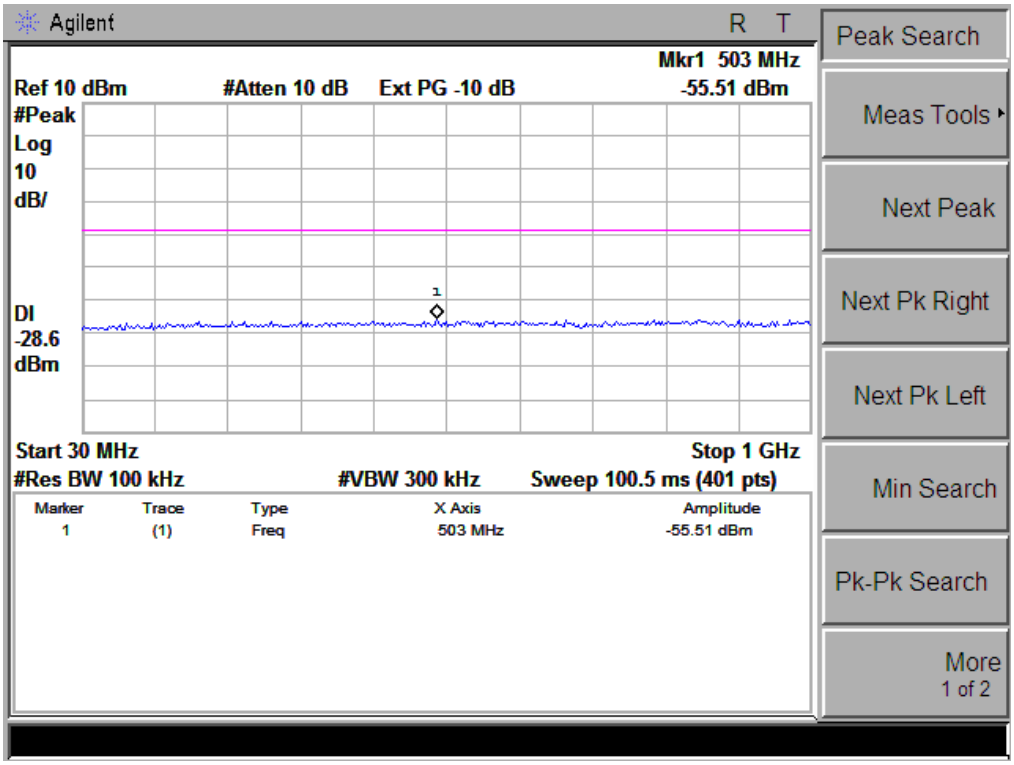


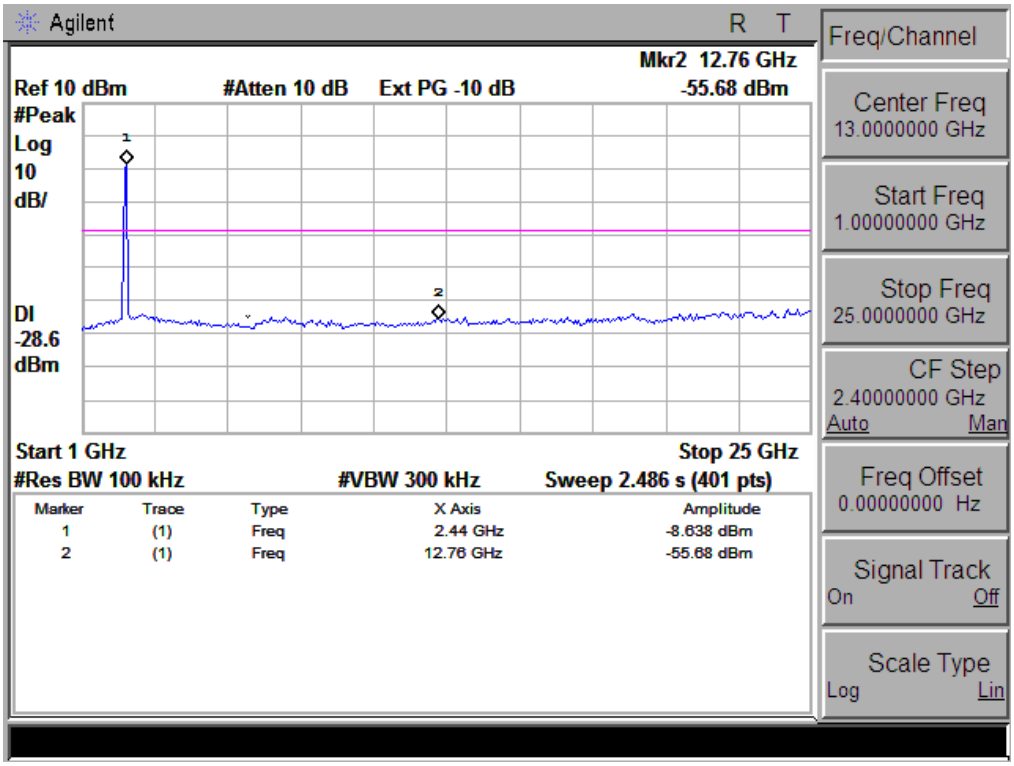
802.11g High Channel



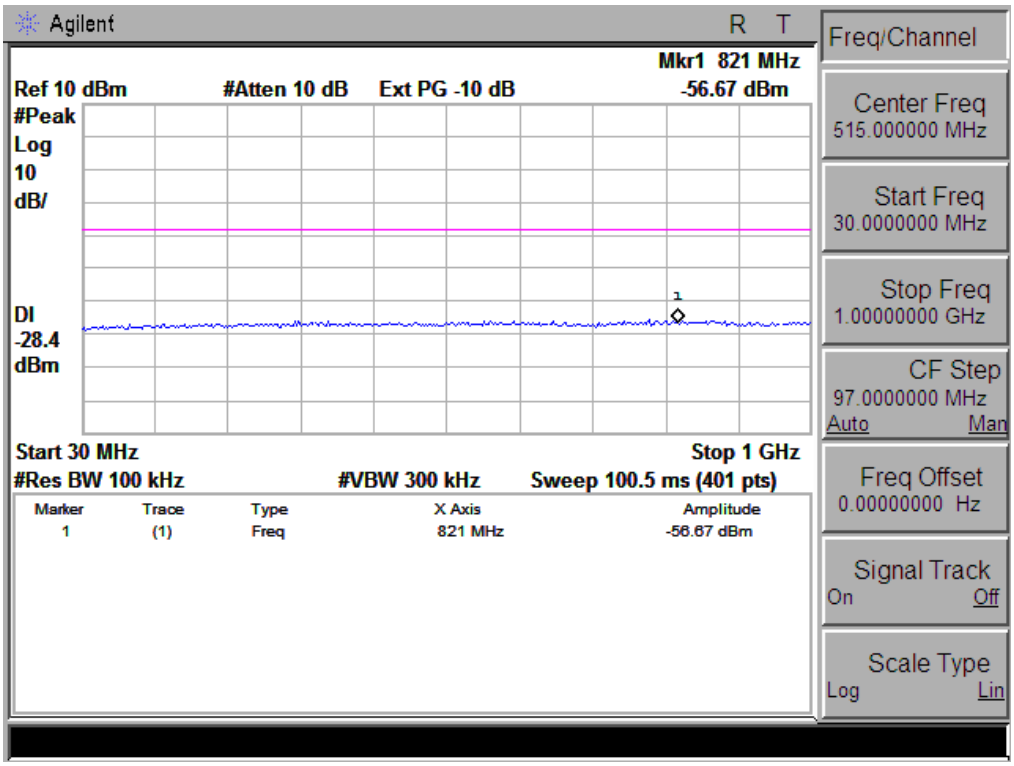


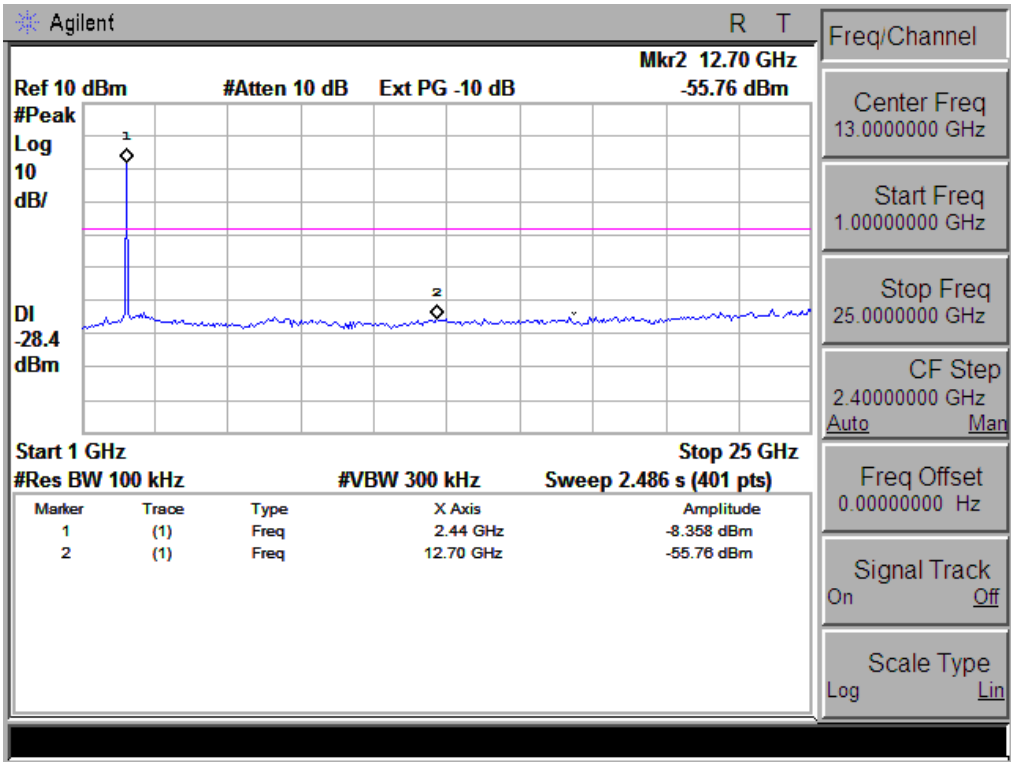
802.11n-HT20 Low Channel



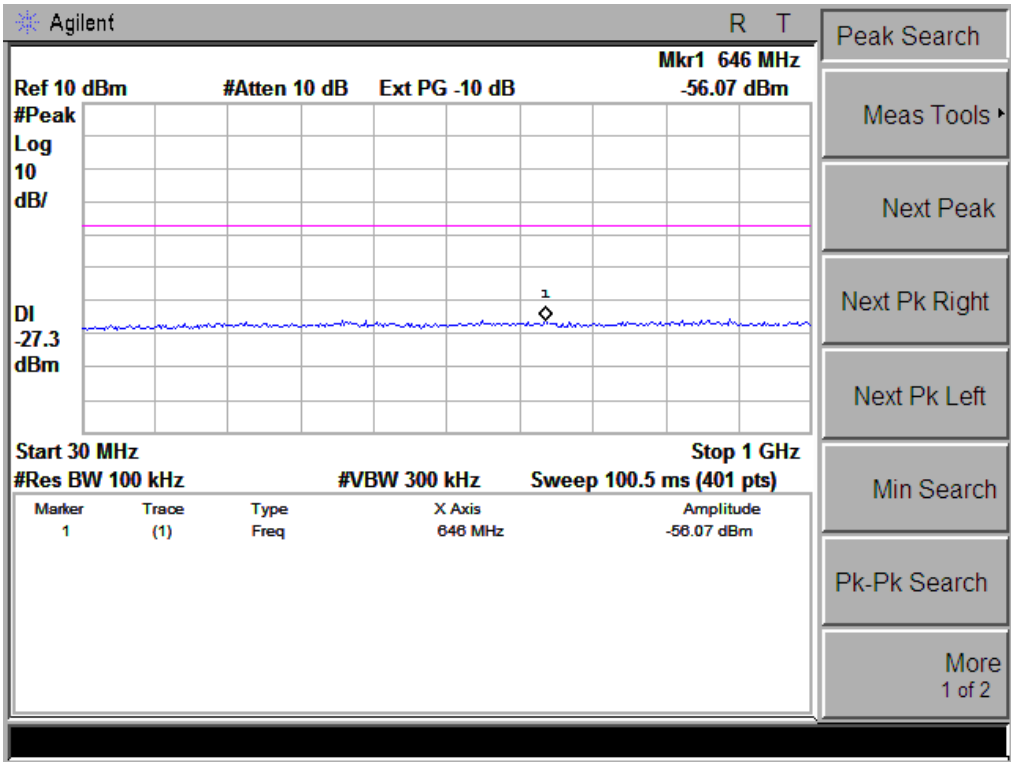


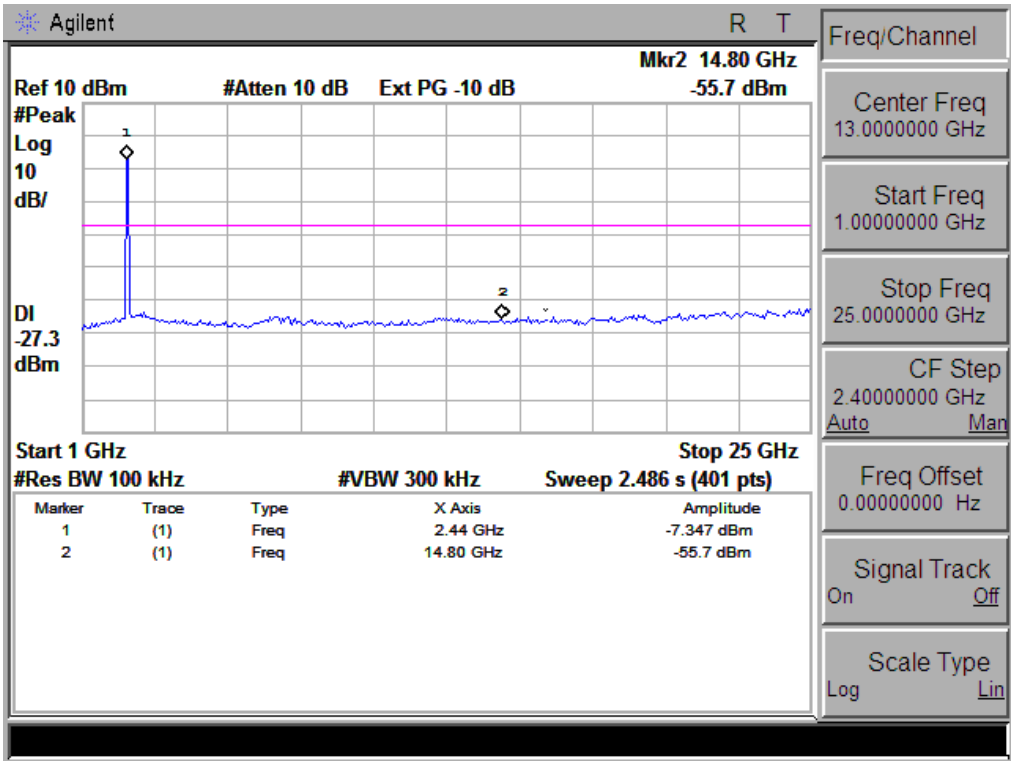
802.11n-HT20 Middle Channel



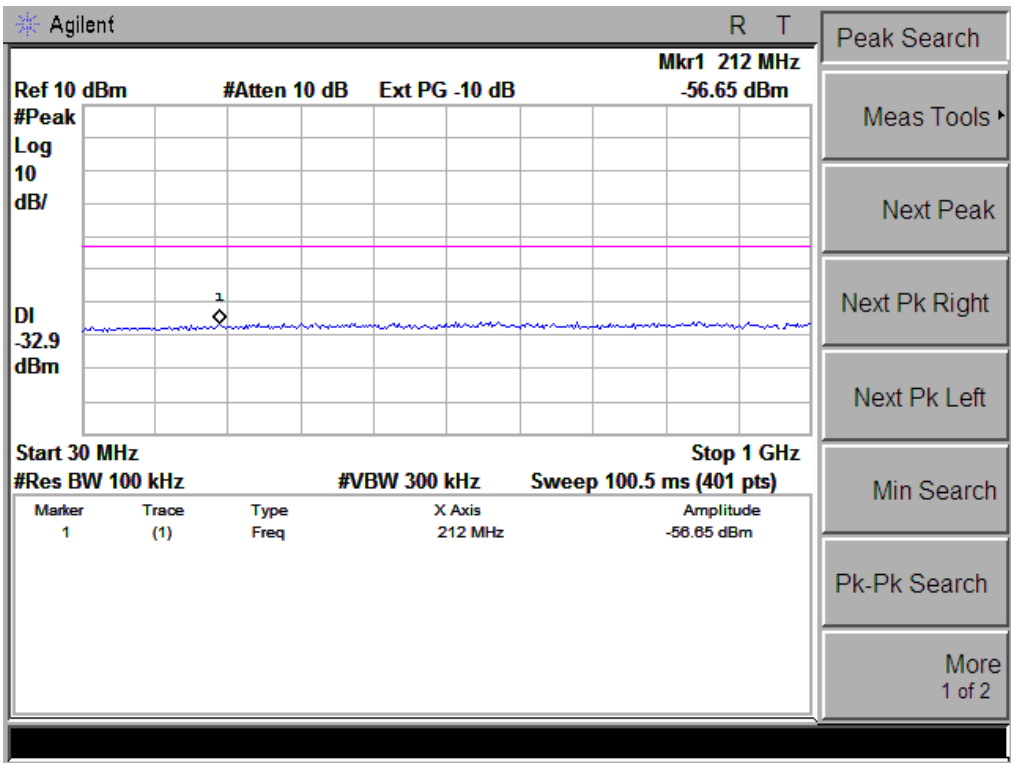


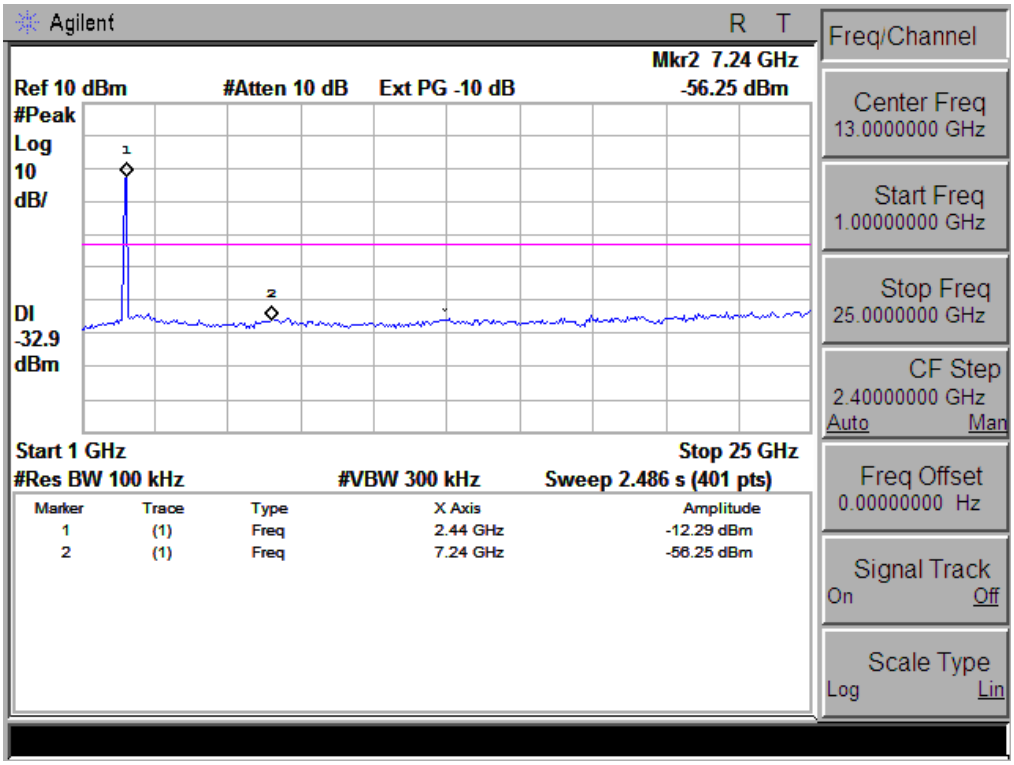
802.11n-HT20 High Channel



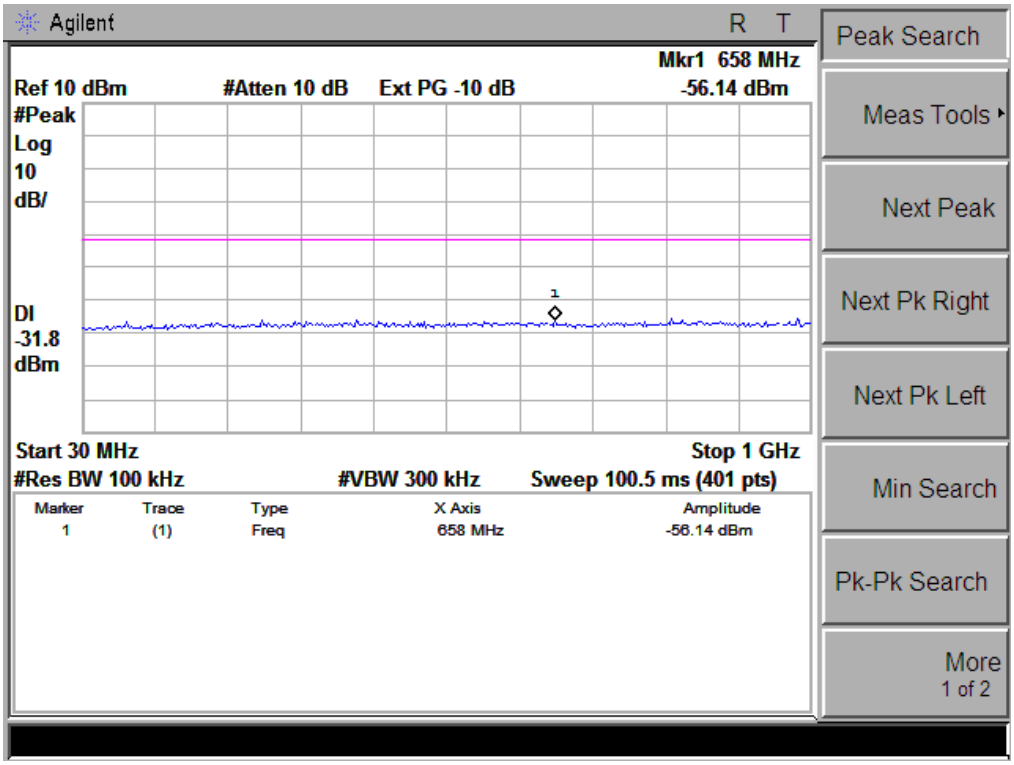


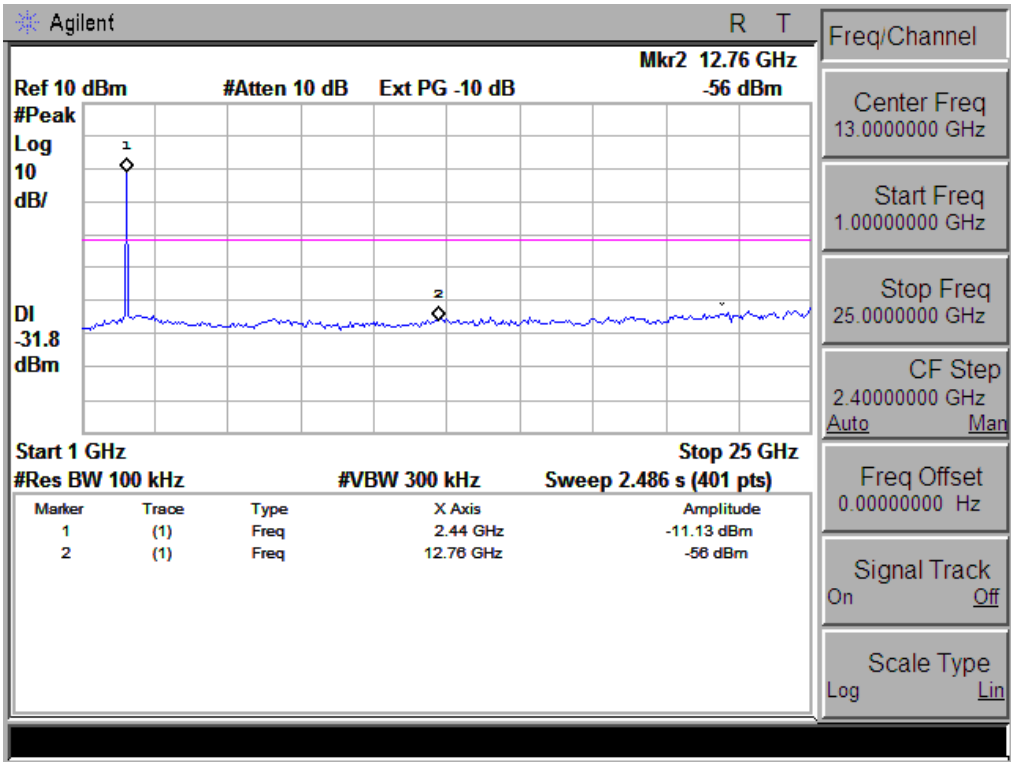
802.11n-HT40 Low Channel



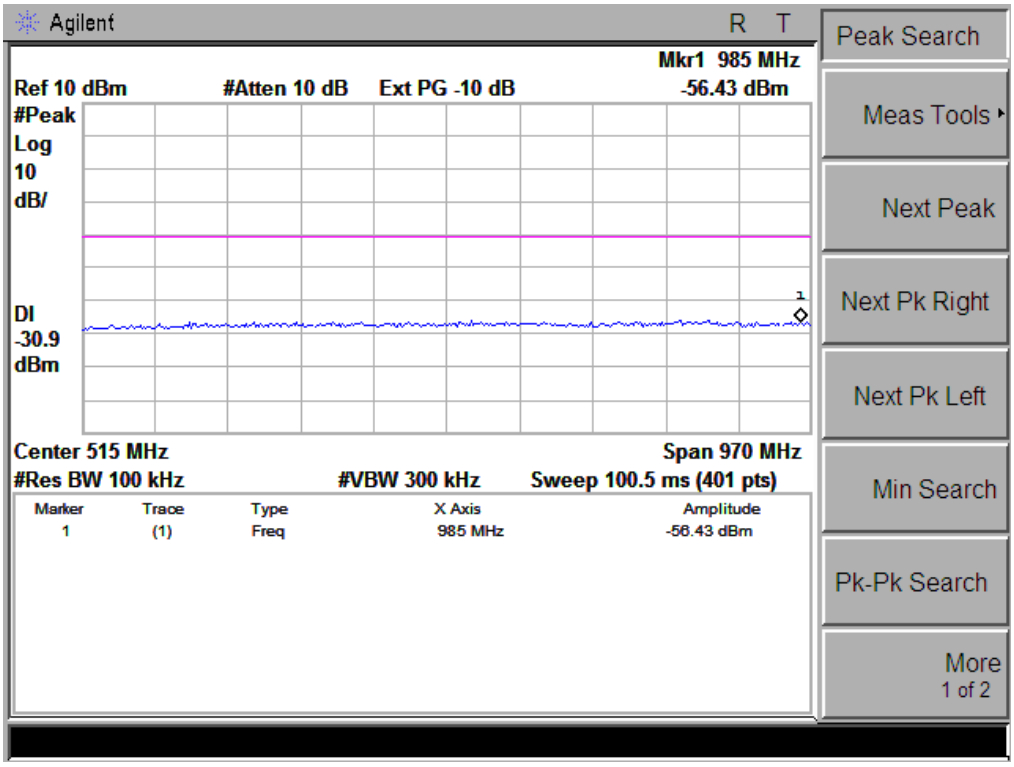


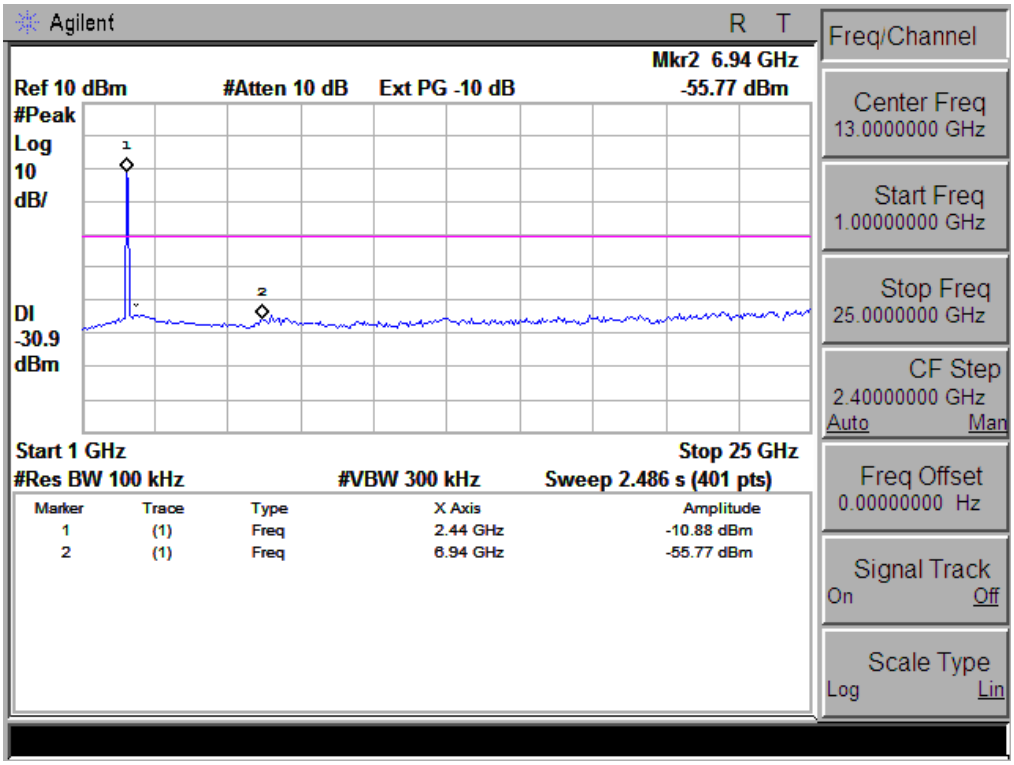
802.11n-HT40 Middle Channel





802.11n-HT40 High Channel





4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

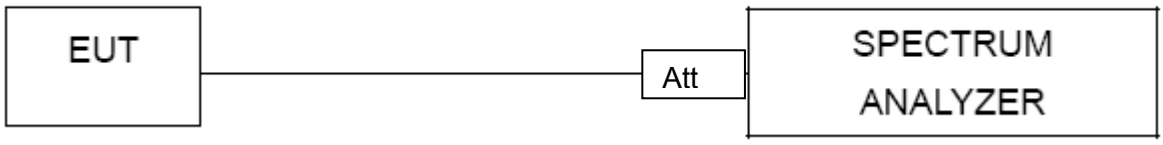
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

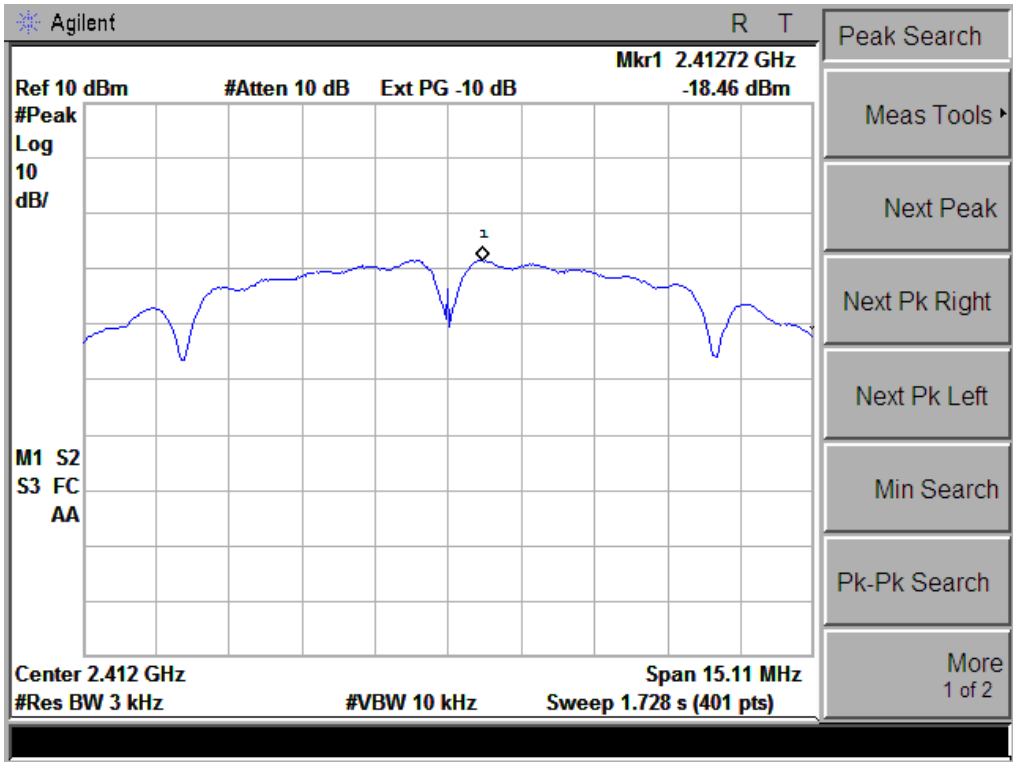
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

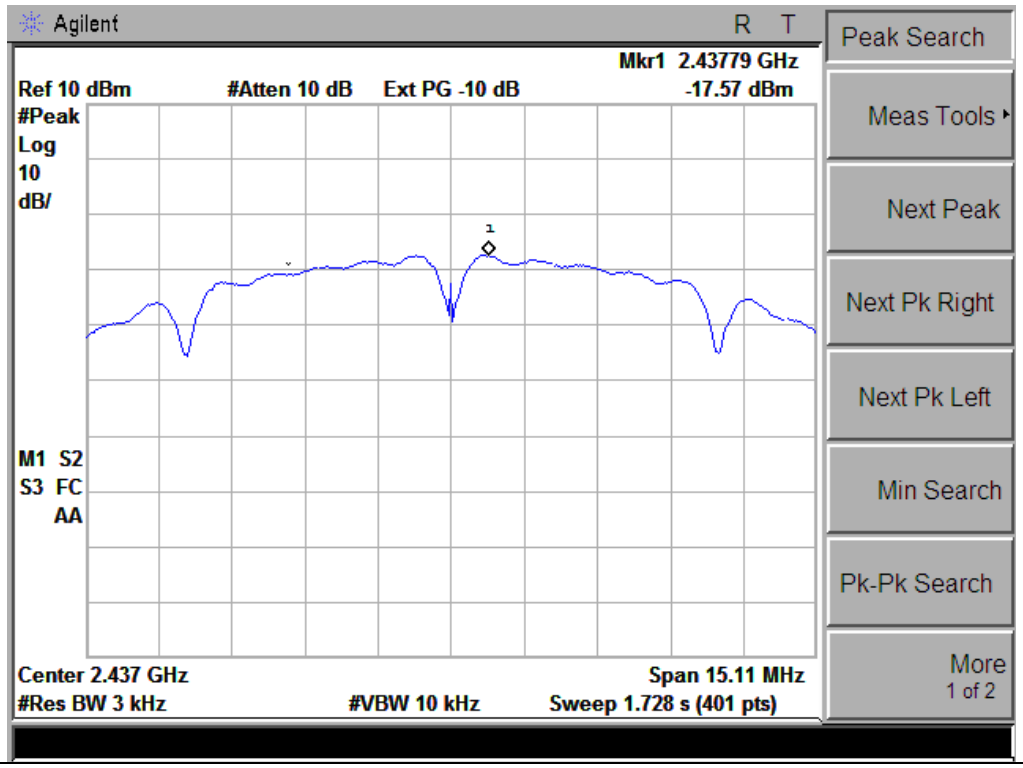
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-18.46	8	PASS
2437 MHz	-17.57	8	PASS
2462 MHz	-16.61	8	PASS

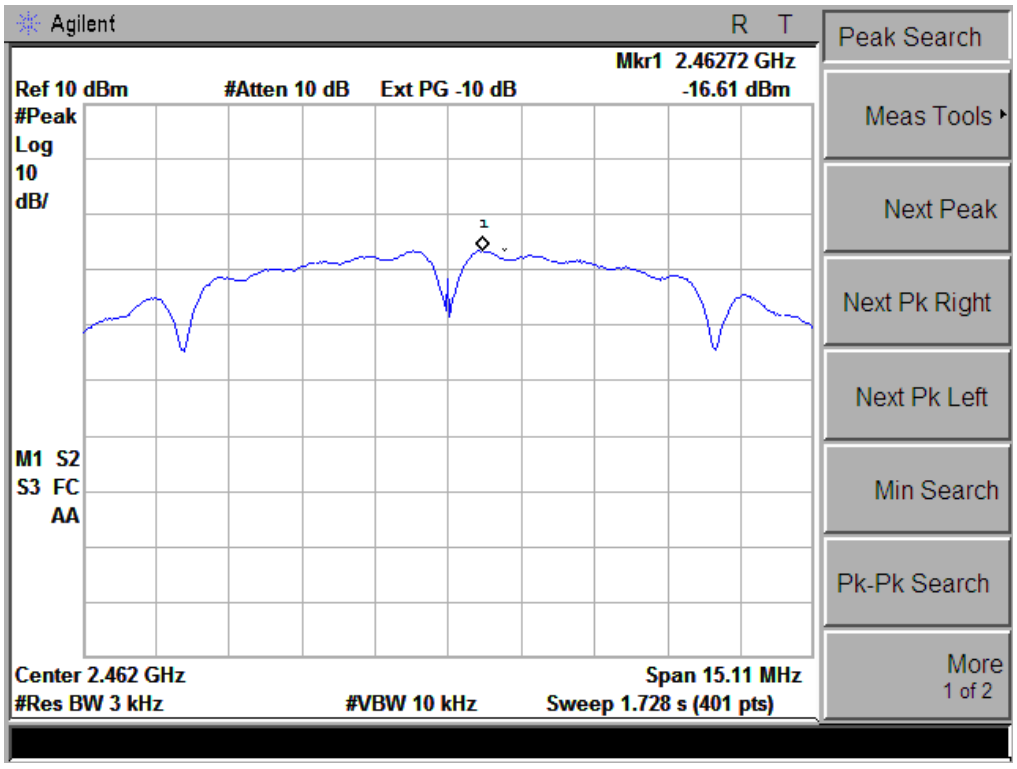
TX CH01



TX CH06



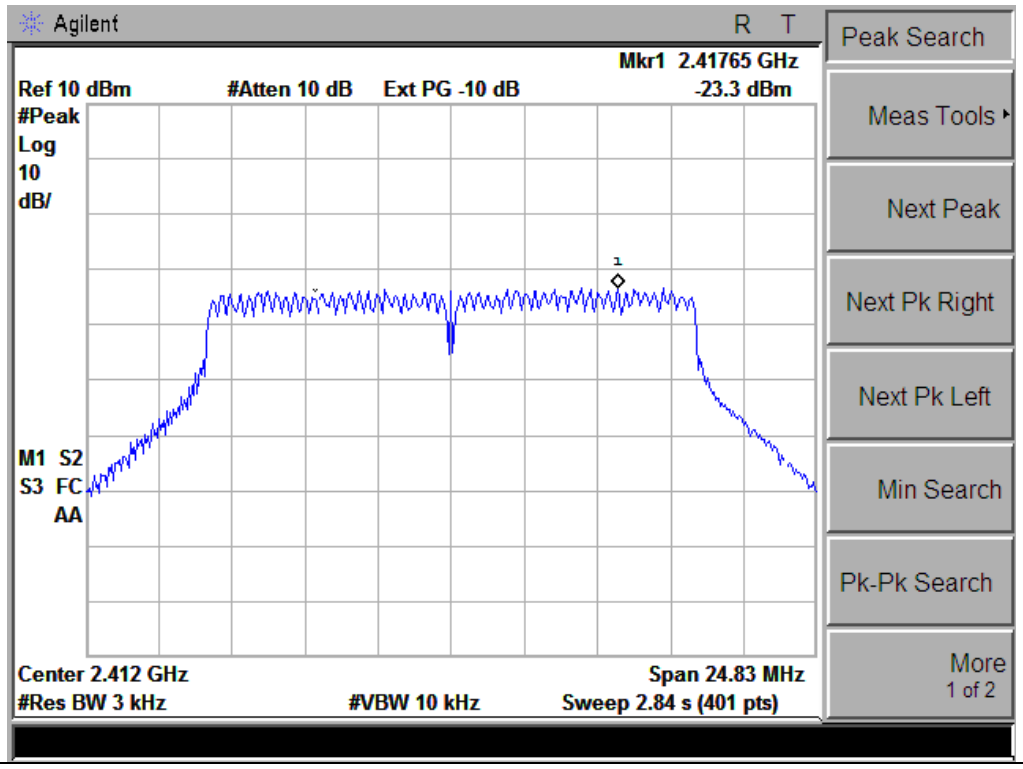
TX CH11



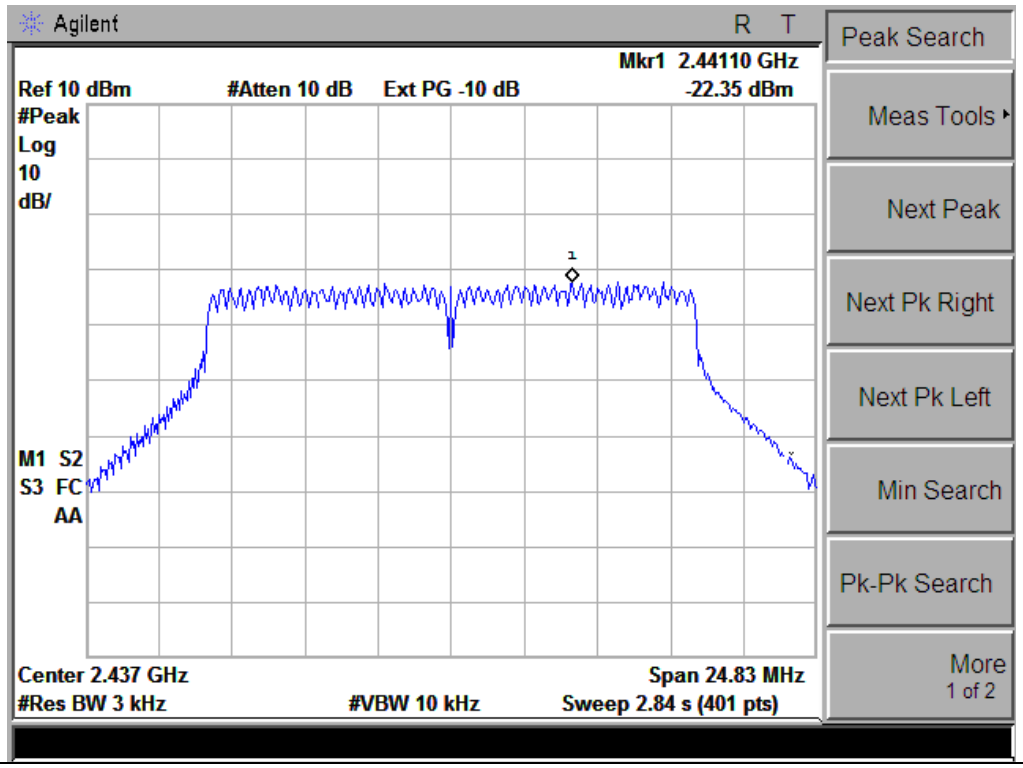
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-23.30	8	PASS
2437 MHz	-22.35	8	PASS
2462 MHz	-21.35	8	PASS

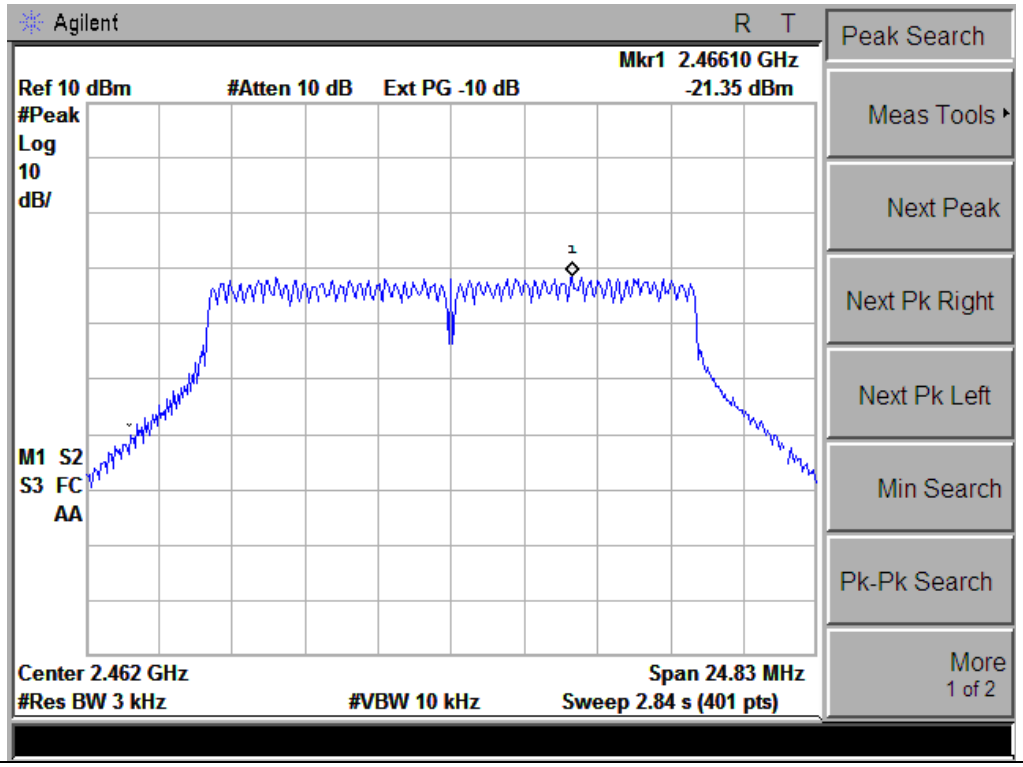
TX CH01



TX CH06



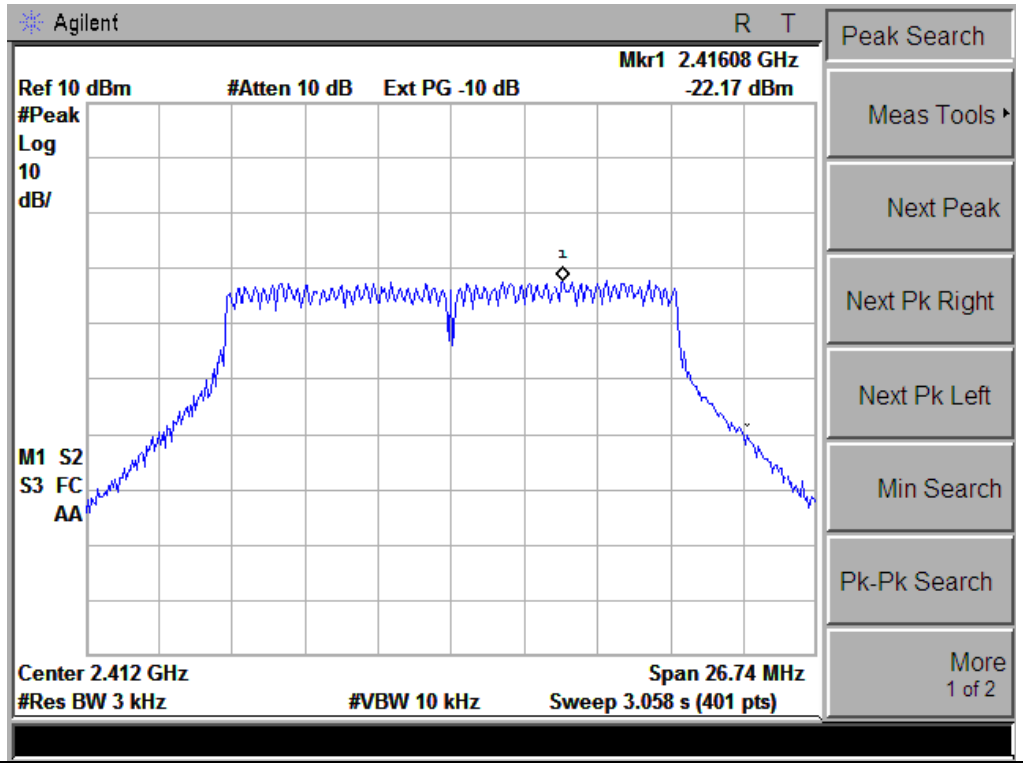
TX CH11



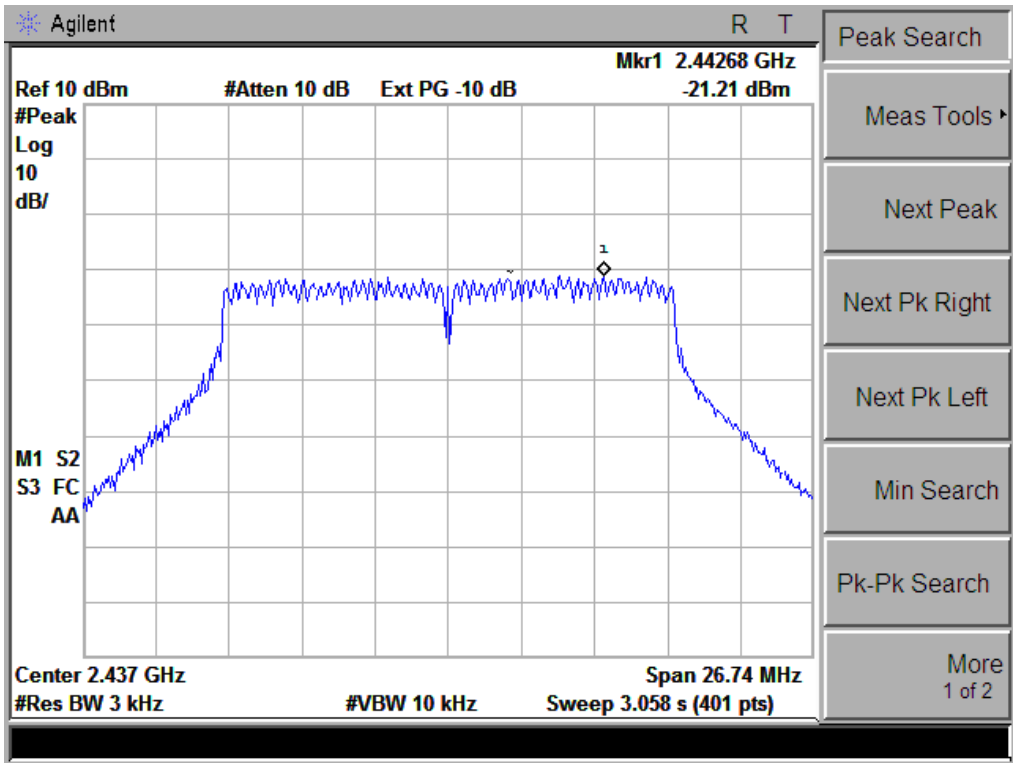
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-22.17	8	PASS
2437 MHz	-21.21	8	PASS
2462 MHz	-20.59	8	PASS

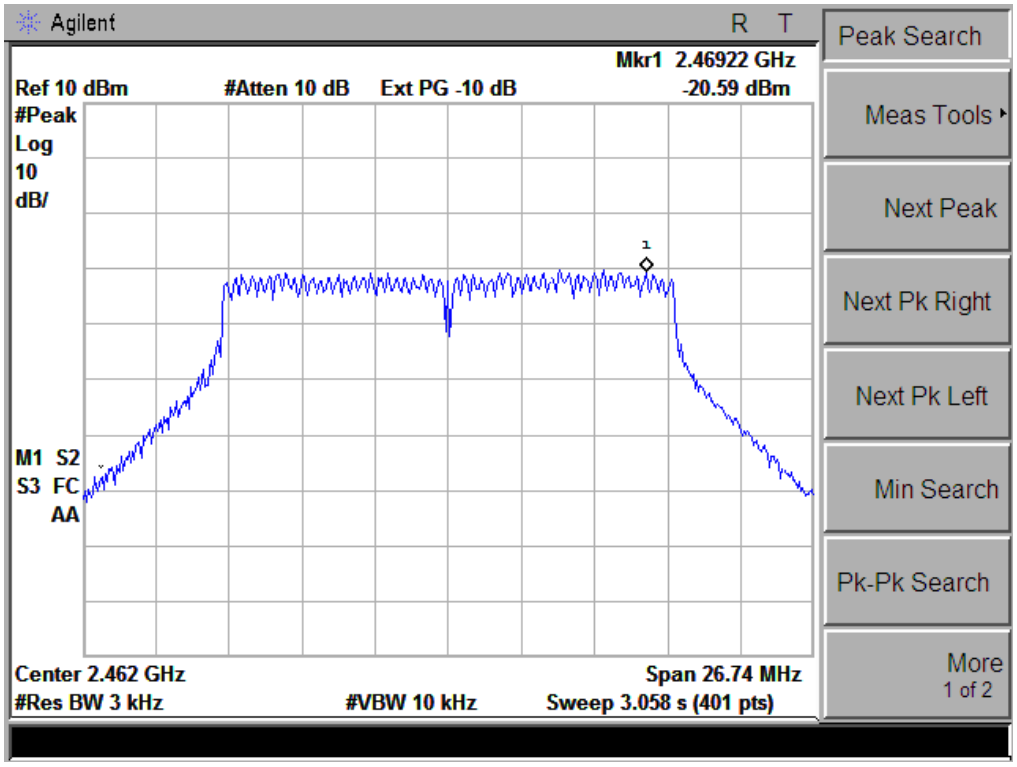
TX CH01



TX CH06



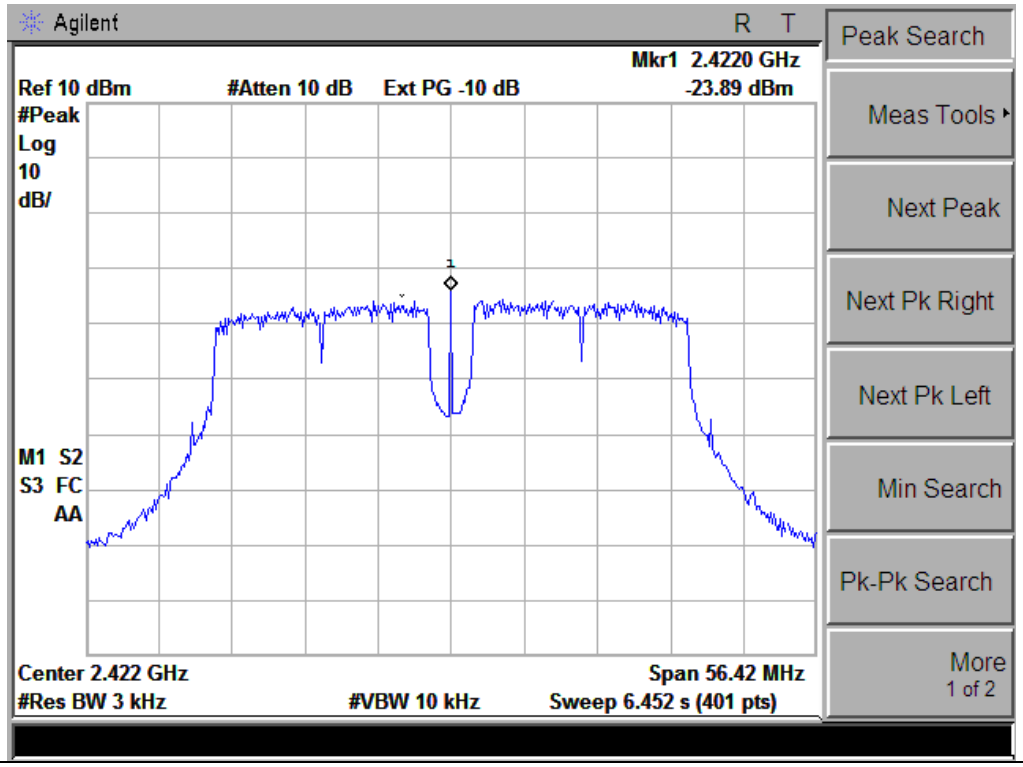
TX CH11



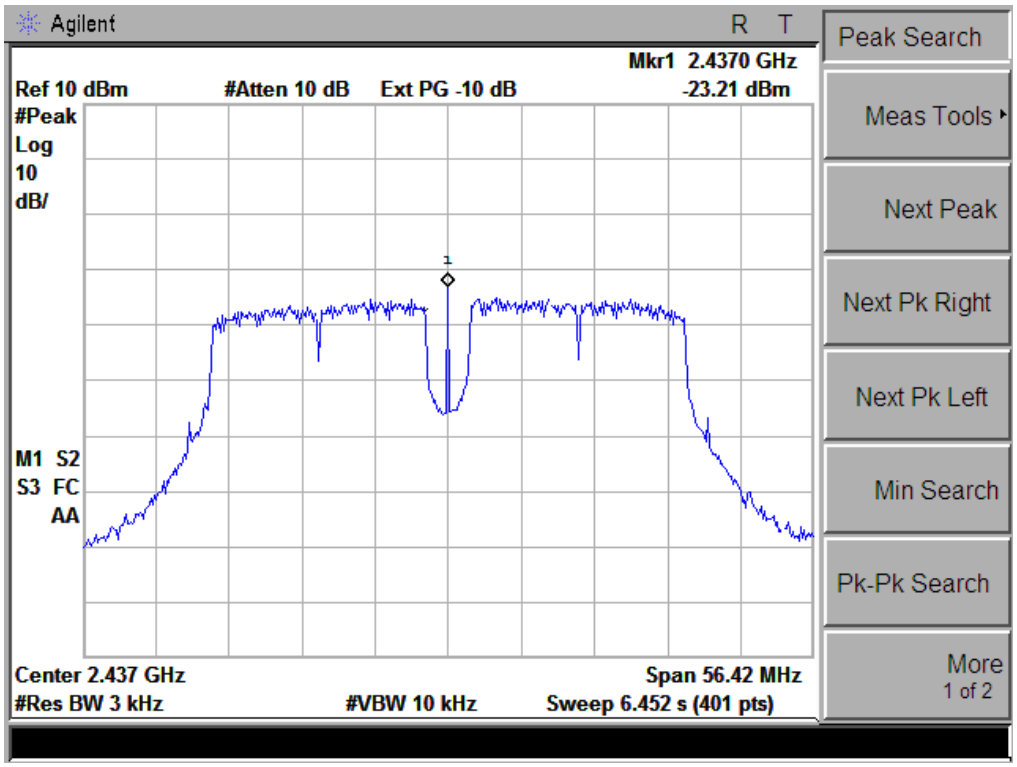
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-23.89	8	PASS
2437 MHz	-23.21	8	PASS
2452 MHz	-22.67	8	PASS

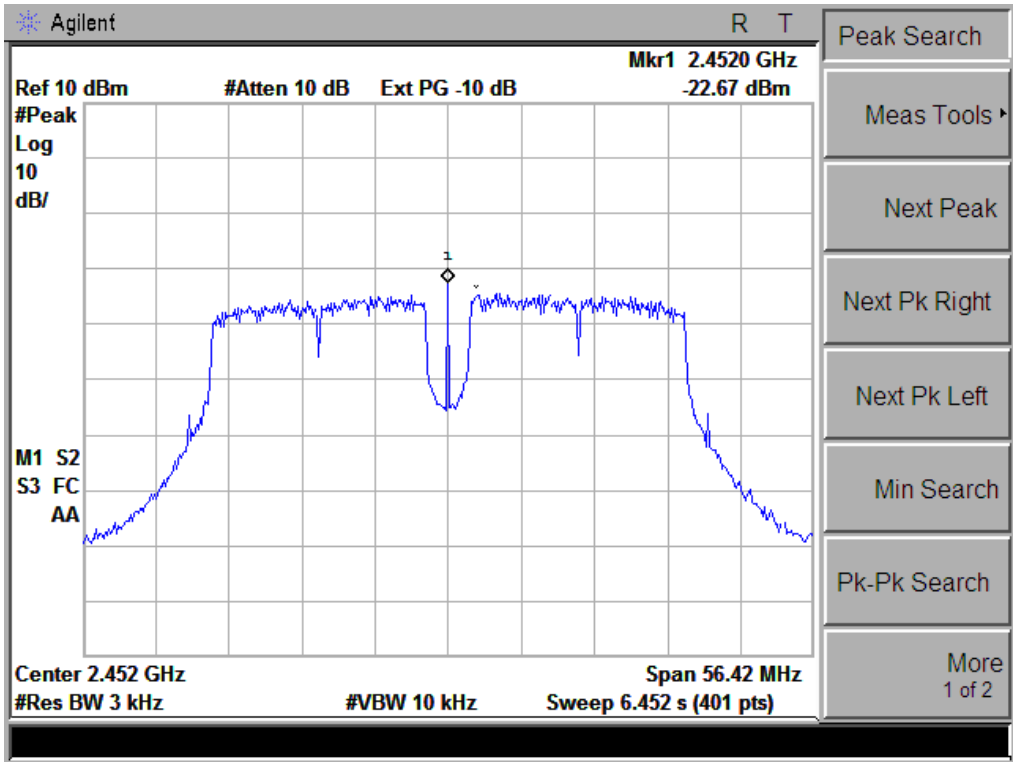
TX CH03



TX CH06



TX CH09



5. BANDWIDTH TEST

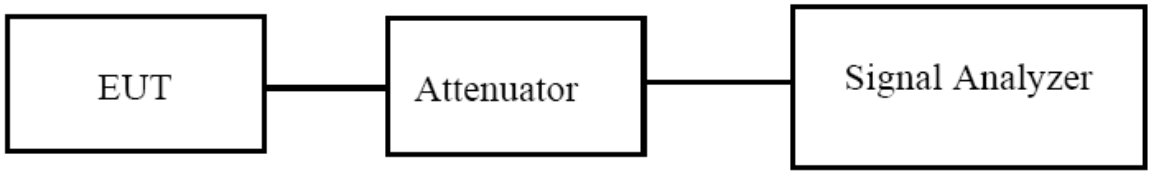
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

According to KDB 558074 D01 DTS Meas Guidance v03r01

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



5.1.2 EUT OPERATION CONDITIONS

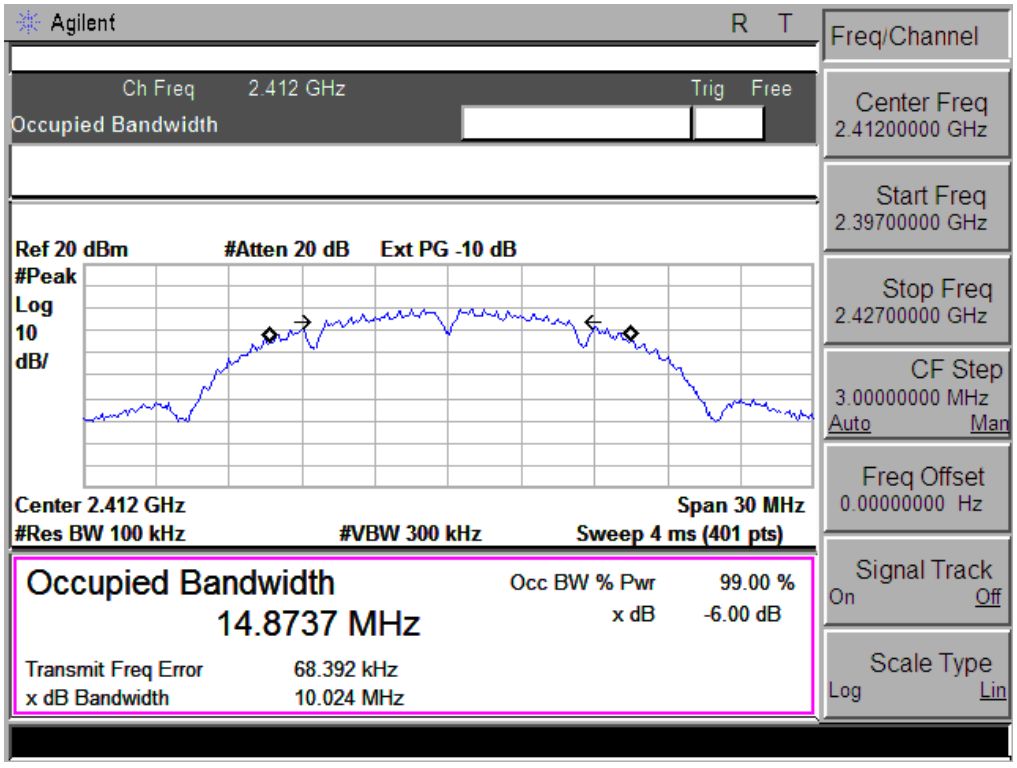
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.3 TEST RESULTS

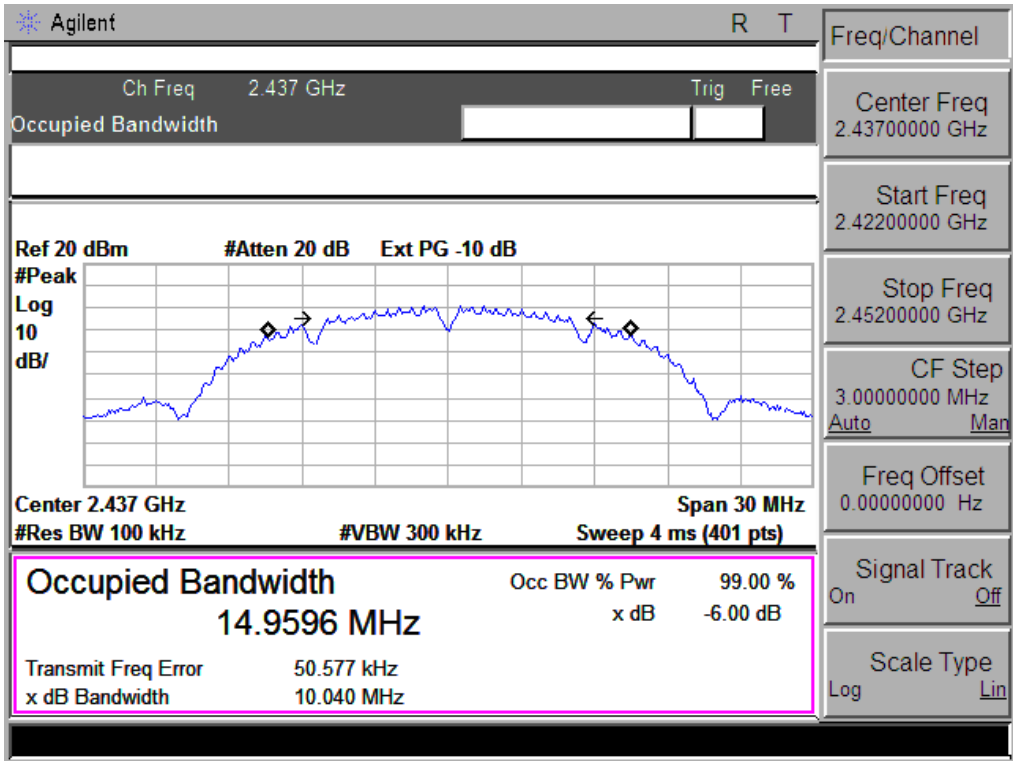
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.024	500	Pass
Middle	2437	10.040	500	Pass
High	2462	10.071	500	Pass

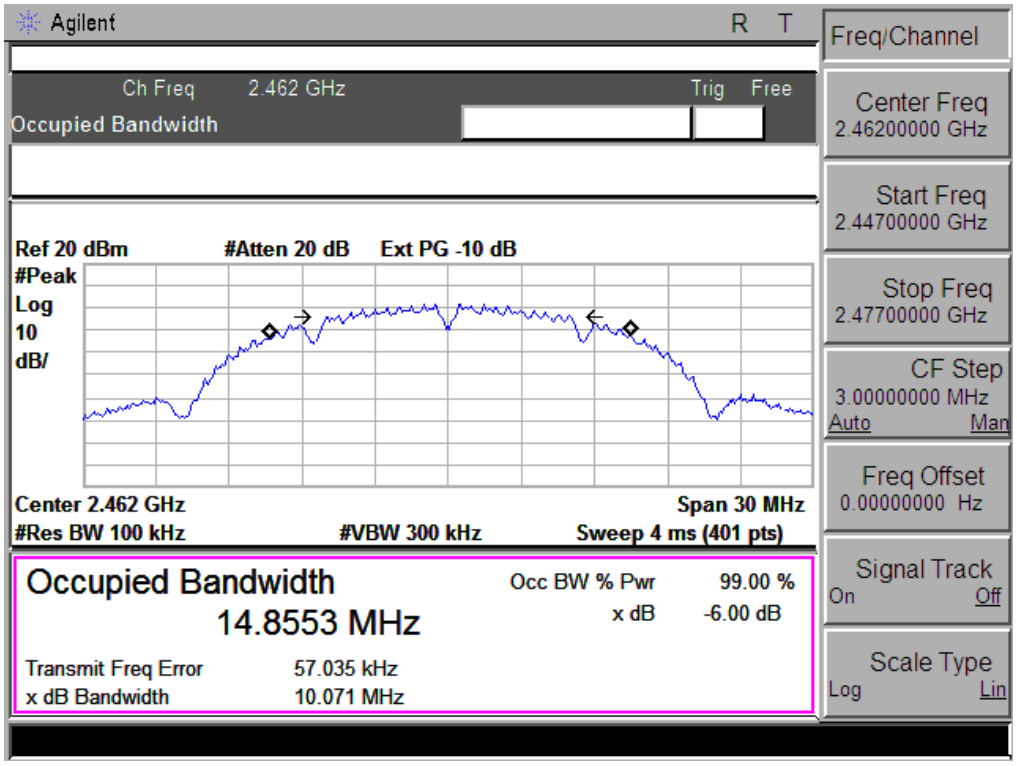
TX CH 01



TX CH 06



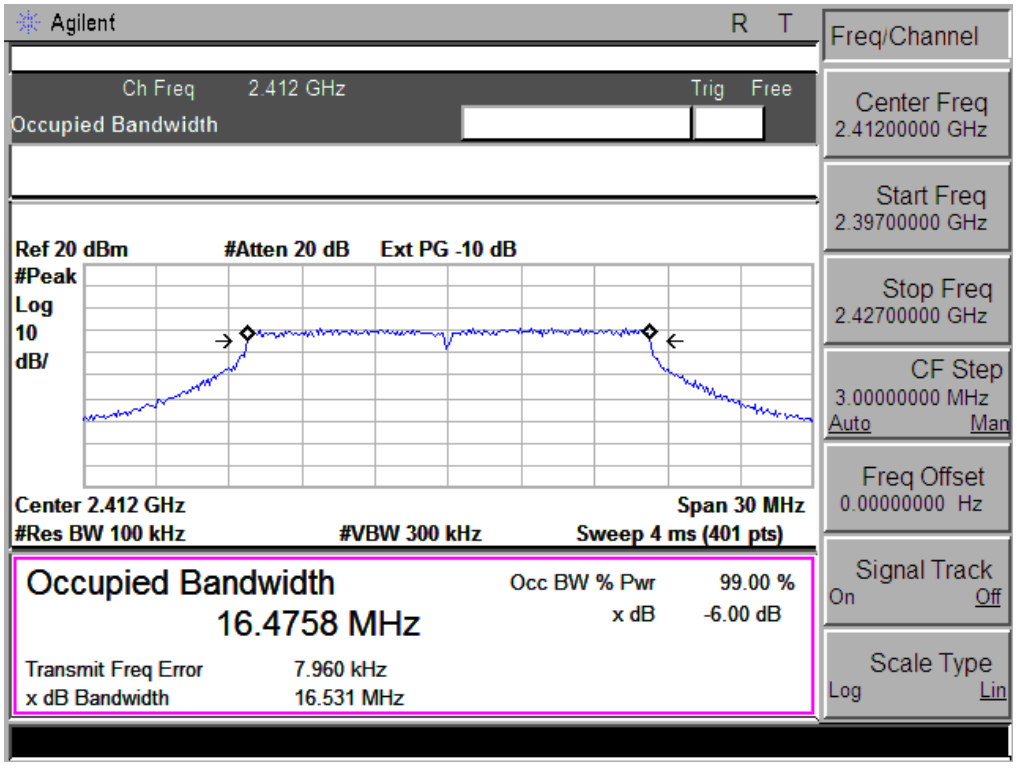
TX CH 11



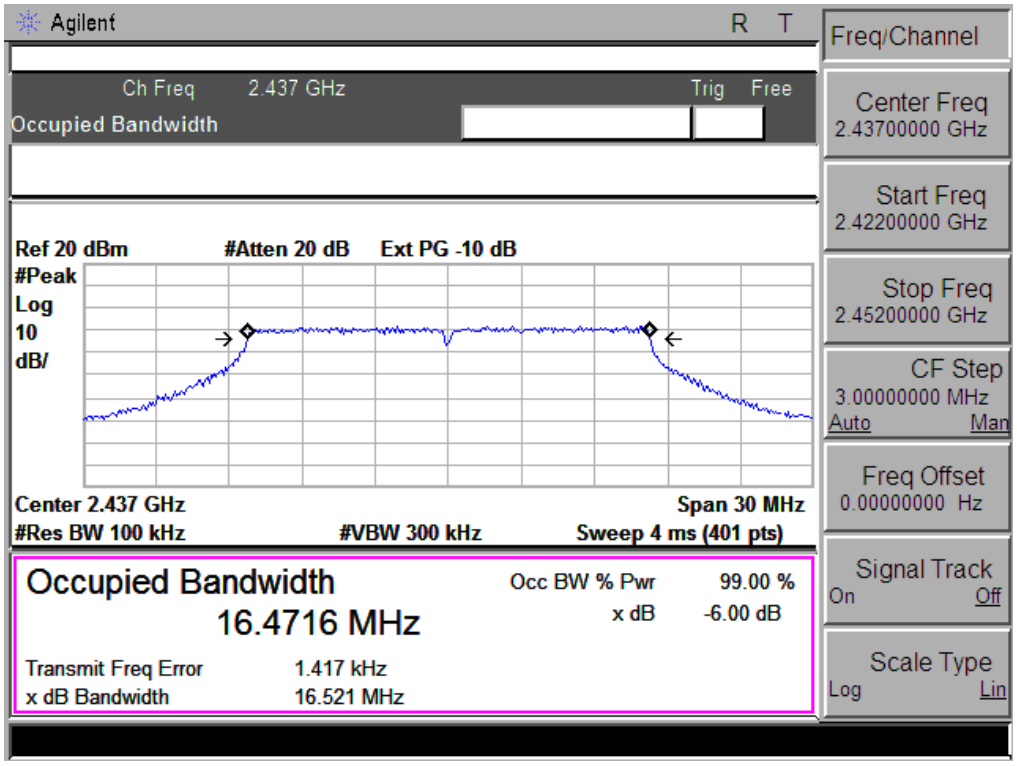
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.531	500	Pass
Middle	2437	16.521	500	Pass
High	2462	16.547	500	Pass

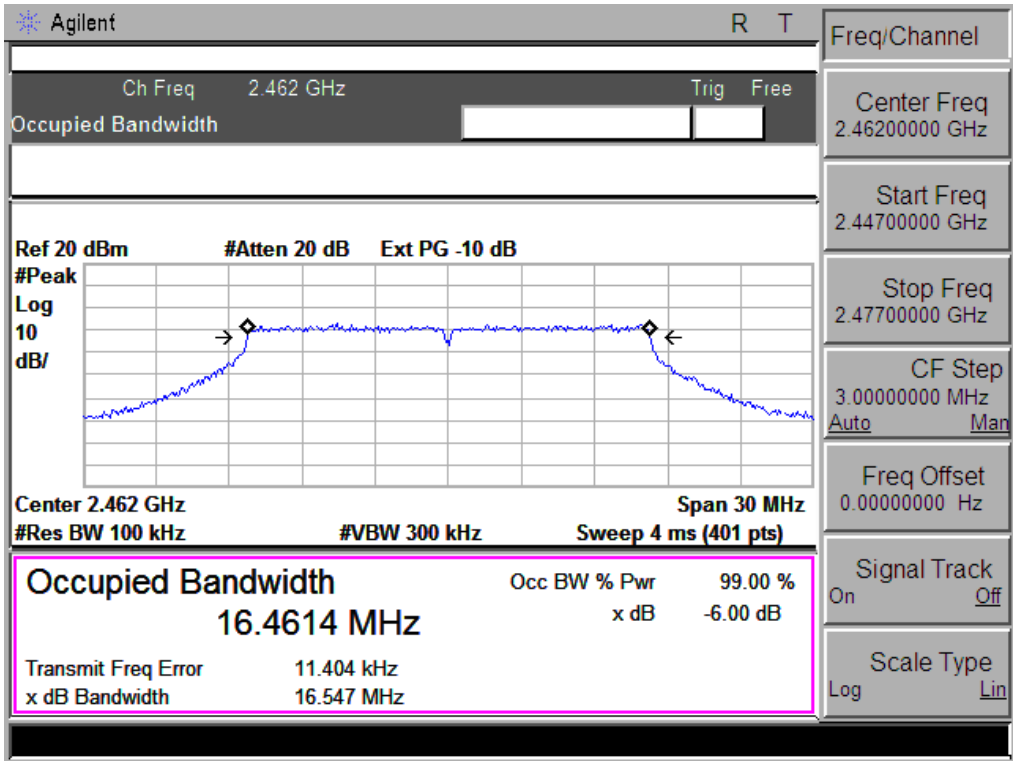
TX CH 01



TX CH 06



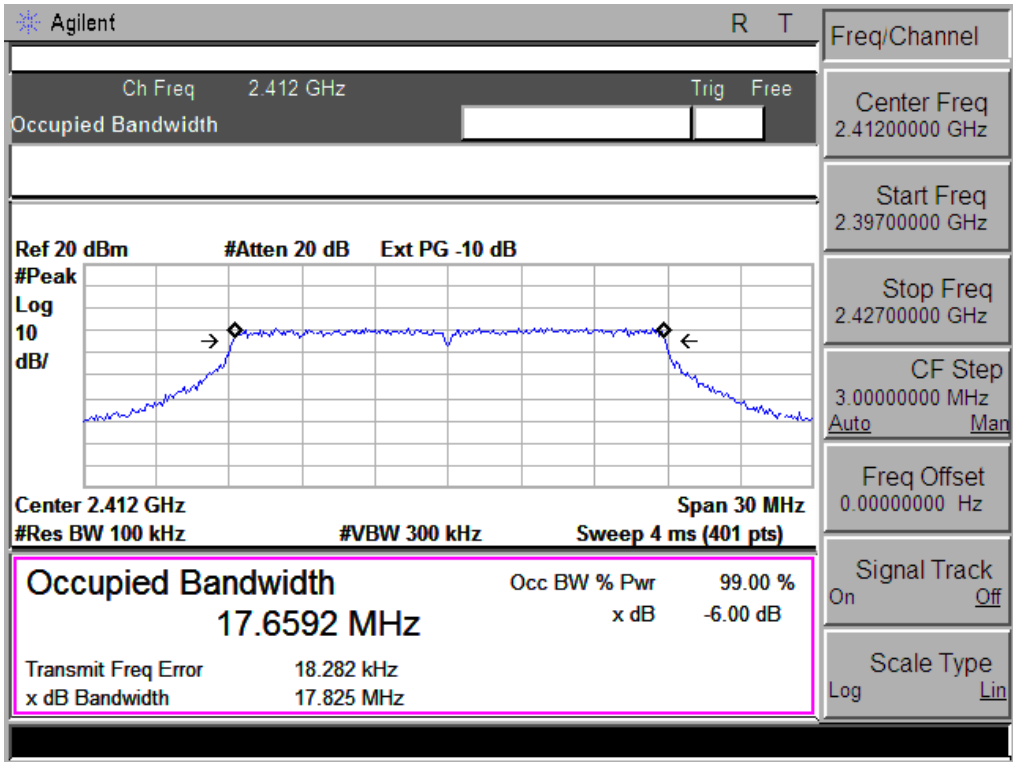
TX CH 11



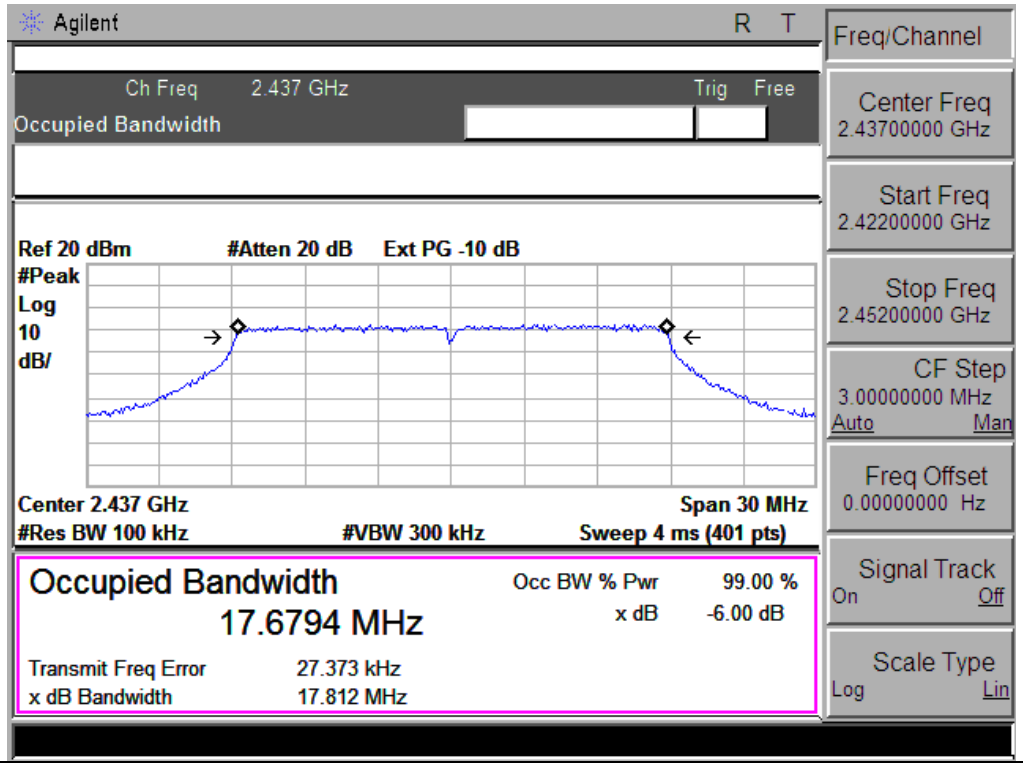
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.825	500	Pass
Middle	2437	17.812	500	Pass
High	2462	17.808	500	Pass

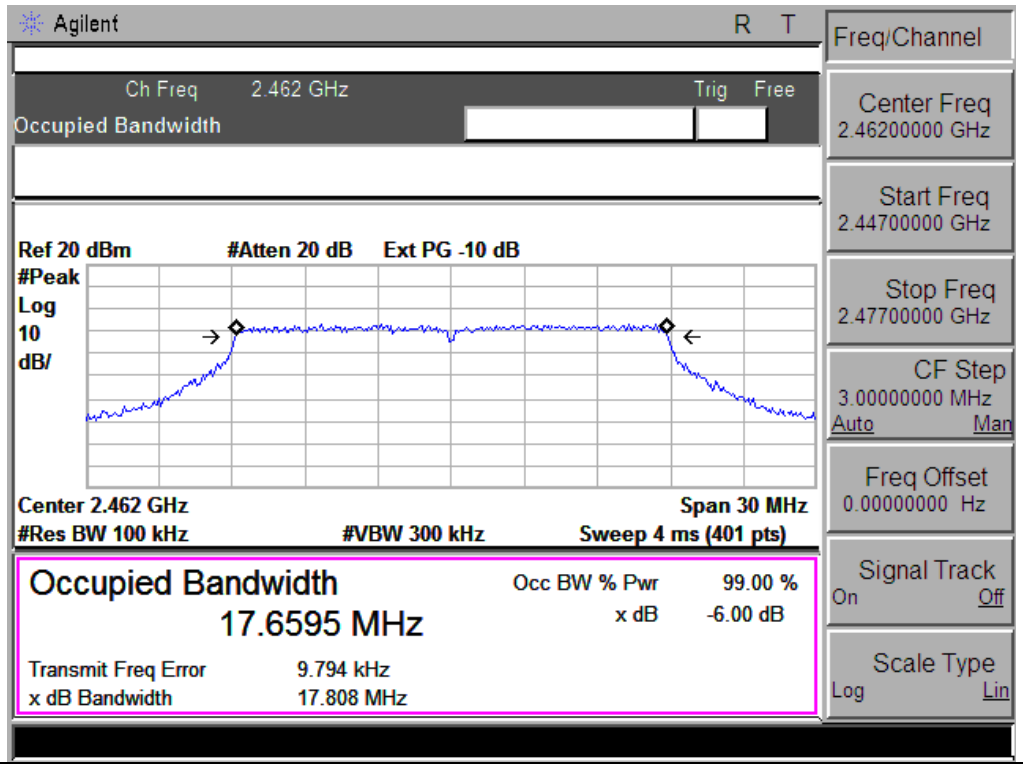
TX CH 01



TX CH 06



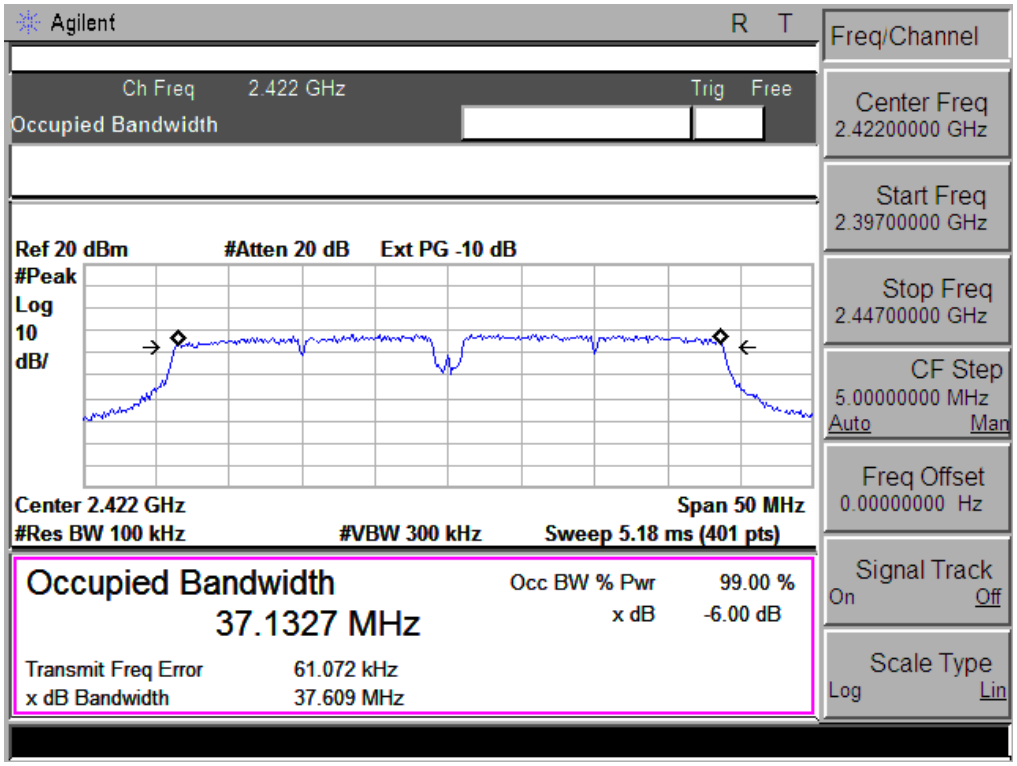
TX CH 11



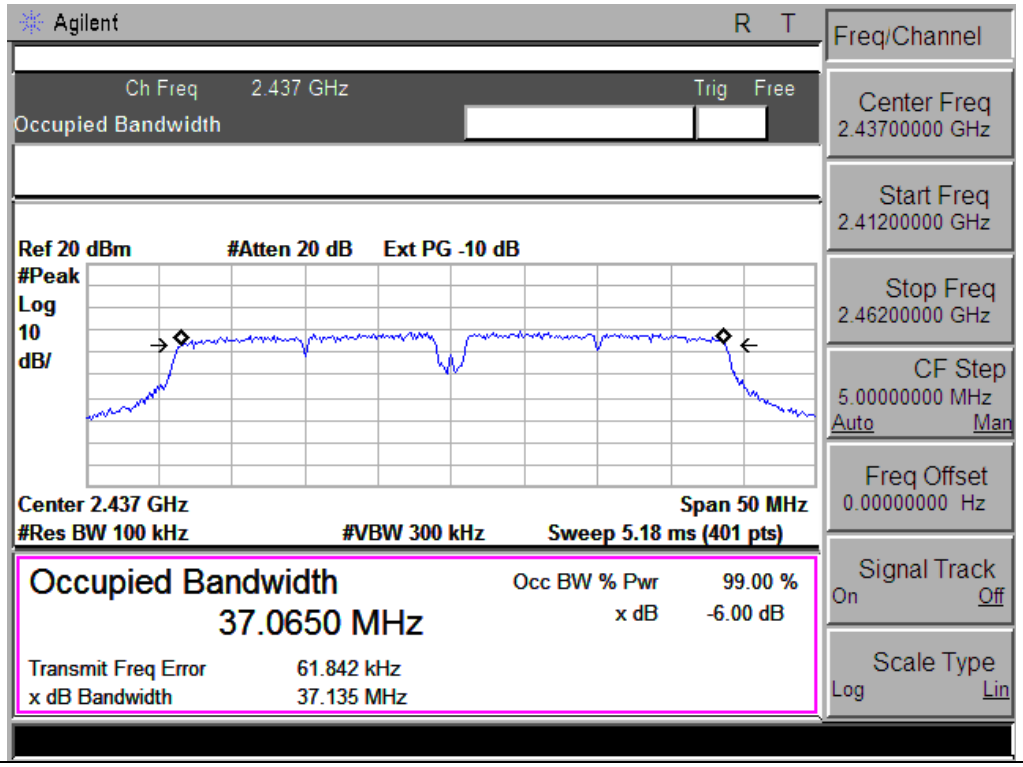
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	37.609	500	Pass
Middle	2437	37.135	500	Pass
High	2452	37.550	500	Pass

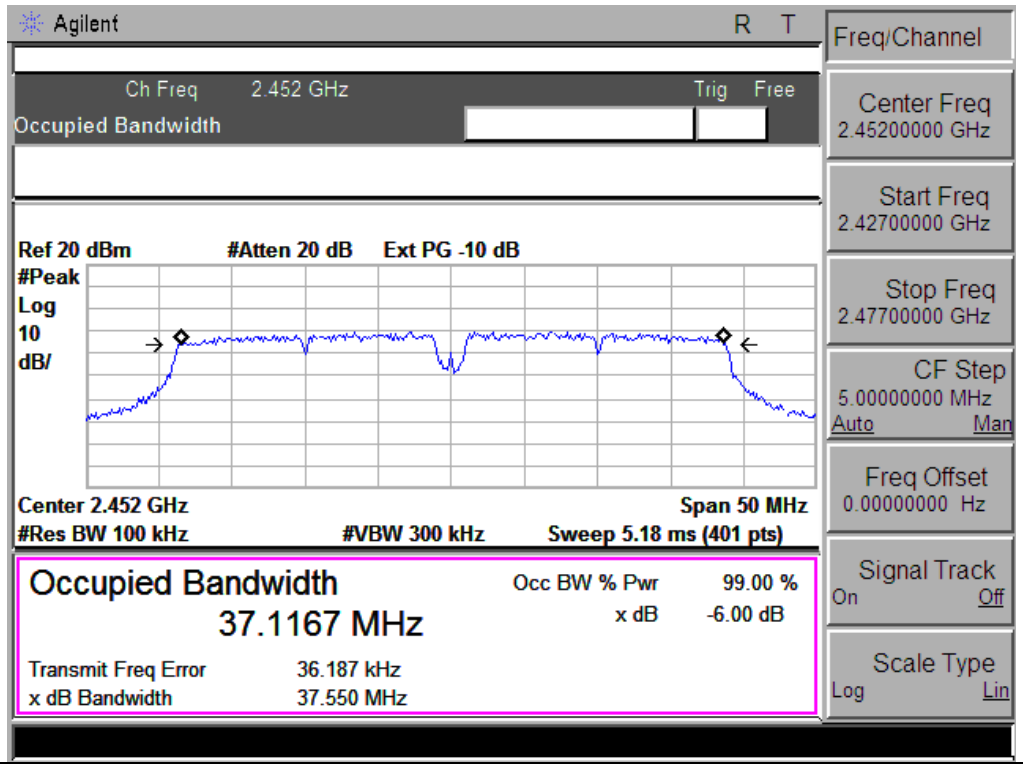
TX CH 03



TX CH 06



TX CH 09



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

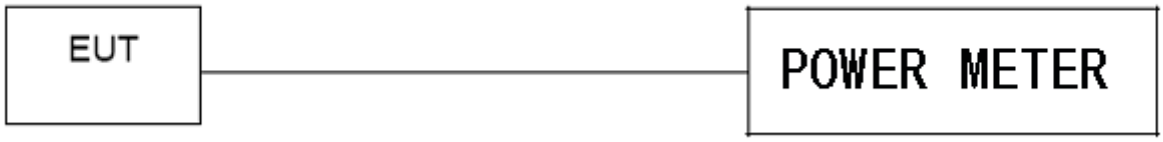
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b/g/n20/n40 Mode		

TX 802.11b Mode				
Test Channe	Frequency	Maximum Peak Conducted Output Power（PK）	Maximum Peak Conducted Output Power（AV）	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	2412	12.35	9.23	30
CH06	2437	12.44	9.46	30
CH11	2462	12.73	9.55	30
TX 802.11g Mode				
CH01	2412	11.71	8.16	30
CH06	2437	11.86	8.34	30
CH11	2462	11.08	8.02	30
TX 802.11n(20) Mode				
CH01	2412	10.32	7.59	30
CH06	2437	10.27	7.43	30
CH11	2462	10.41	7.66	30
TX 802.11n(40) Mode				
CH03	2422	9.91	7.32	30
CH06	2437	9.82	7.25	30
CH09	2452	9.77	7.17	30

7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

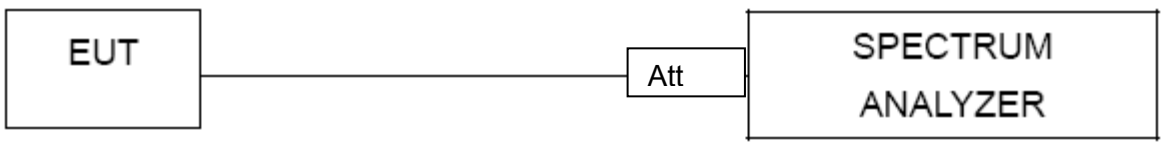
TEST PROCEDURE

a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.4 TEST RESULTS

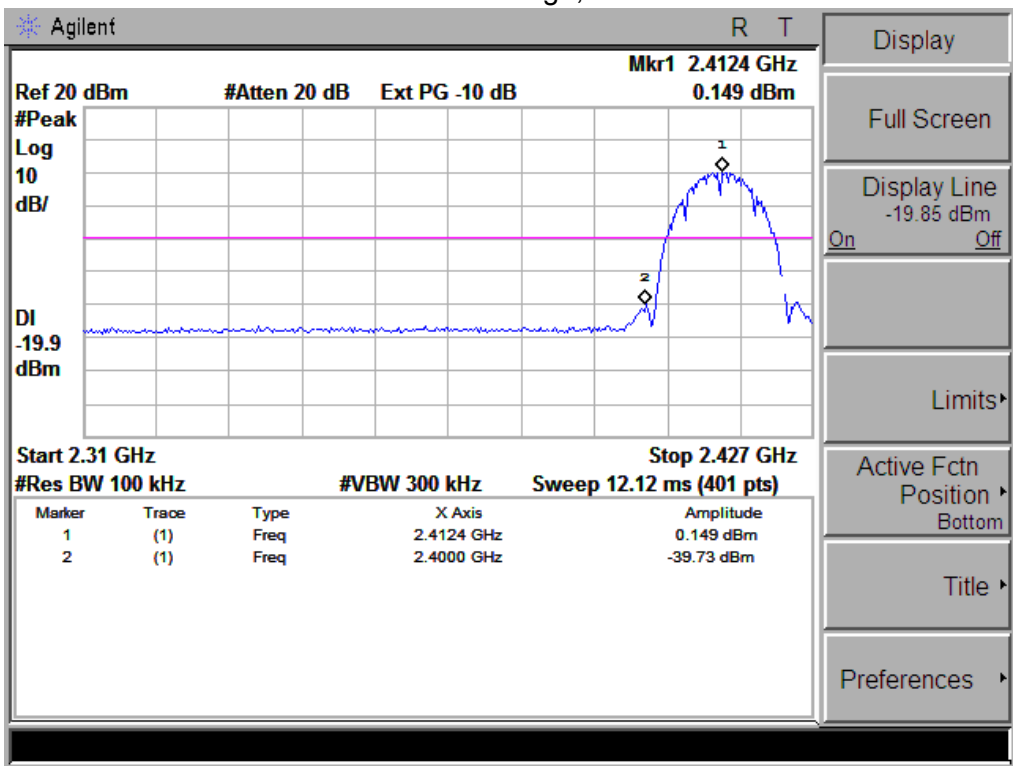
EUT：	iDISPLAY TABLET	Model Name ：	UIT207A-B05
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V

Frequency Band	Delta Peak to band emission (dBc)	＞Limit (dBc)	Result
802.11b			
Left-band	39.88	20	Pass
Right-band	49.02	20	Pass
802.11g			
Left-band	31.64	20	Pass
Right-band	41.75	20	Pass
802.11n20			
Left-band	32.92	20	Pass
Right-band	42.27	20	Pass
802.11n40			
Left-band	31.14	20	Pass
Right-band	38.41	20	Pass

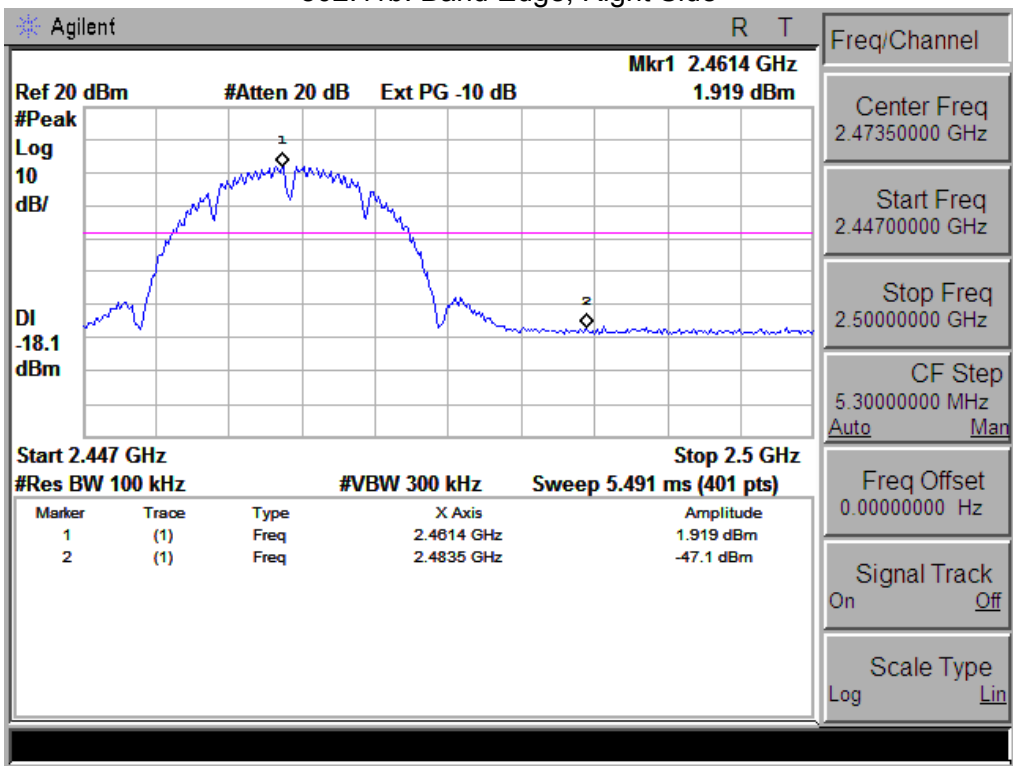
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b							
2390	47.64	-13.06	34.58	74	-39.42	peak	Vertical
2390	46.75	-13.06	33.69	74	-40.31	peak	Horizontal
2483.5	47.69	-12.78	34.91	74	-39.09	peak	Vertical
2483.5	46.42	-12.78	33.64	74	-40.36	peak	Horizontal
802.11g							
2390	43.45	-13.06	30.39	74	-43.61	peak	Vertical
2390	45.37	-13.06	32.31	74	-41.69	peak	Horizontal
2483.5	47.06	-12.78	34.28	74	-39.72	peak	Vertical
2483.5	43.55	-12.78	30.77	74	-43.23	peak	Horizontal
802.11n（20）							
2390	39.79	-13.06	26.73	74	-47.27	peak	Vertical
2390	38.57	-13.06	25.51	74	-48.49	peak	Horizontal
2483.5	47.46	-12.78	34.68	74	-39.32	peak	Vertical
2483.5	47.19	-12.78	34.41	74	-39.59	peak	Horizontal
802.11n（40）							
2390	39.45	-13.06	26.39	74	-47.61	peak	Vertical
2390	38.23	-13.06	25.17	74	-48.83	peak	Horizontal
2483.5	46.75	-12.78	33.97	74	-40.03	peak	Vertical
2483.5	45.86	-12.78	33.08	74	-40.92	peak	Horizontal

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

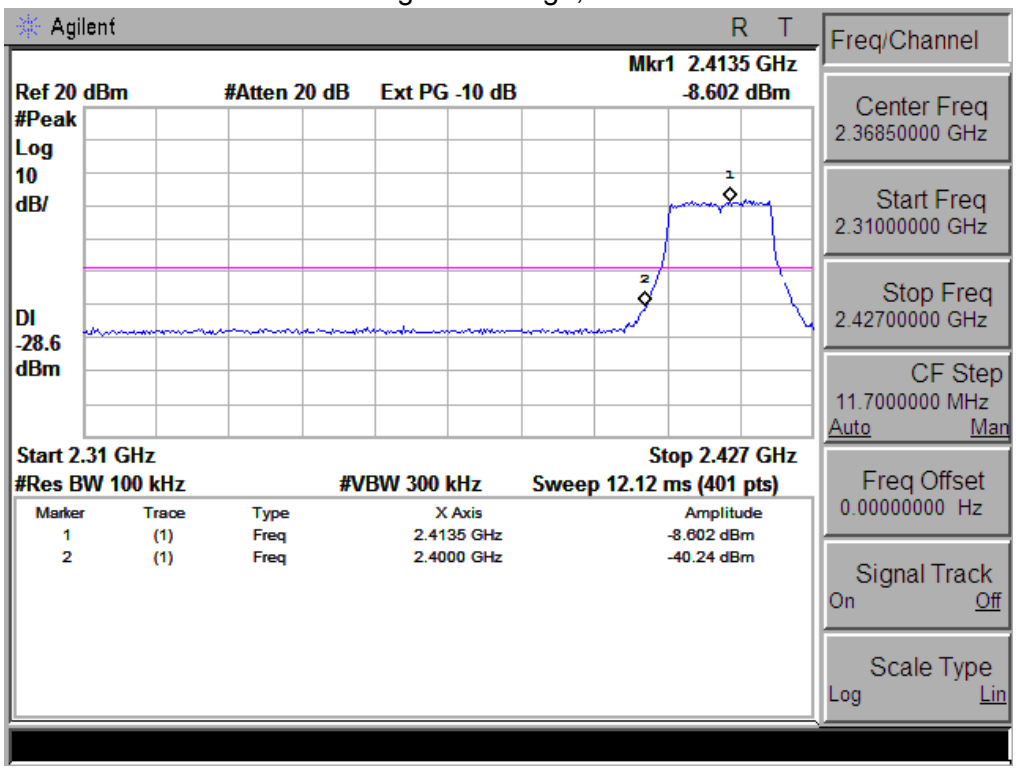
802.11b: Band Edge, Left Side



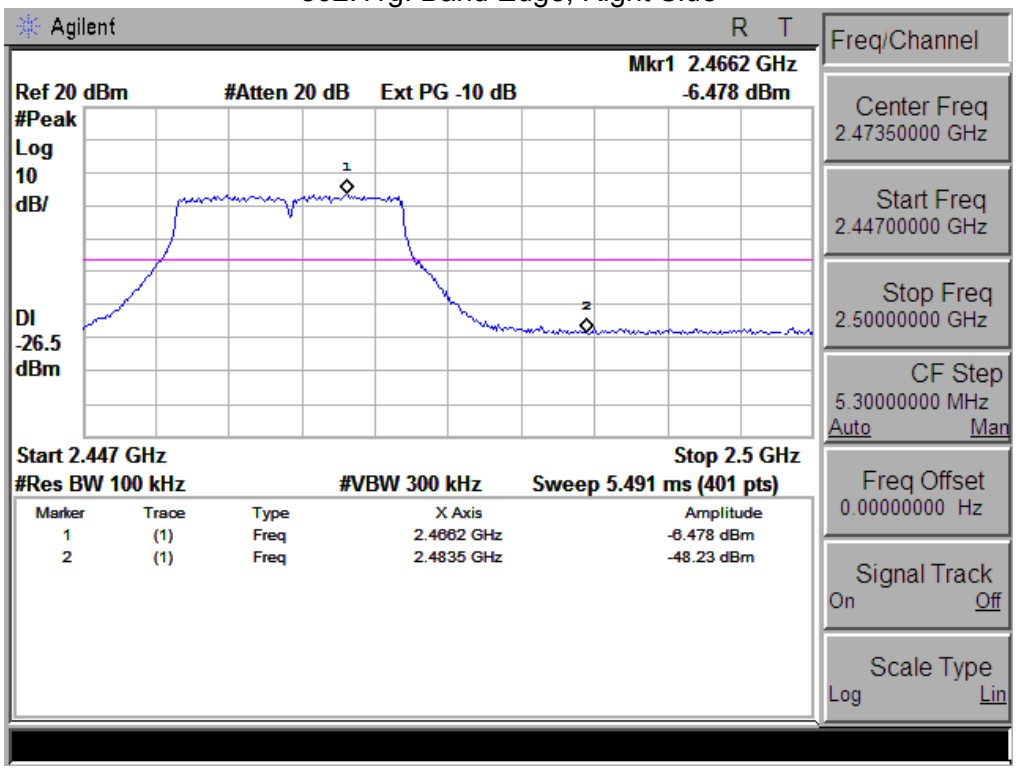
802.11b: Band Edge, Right Side



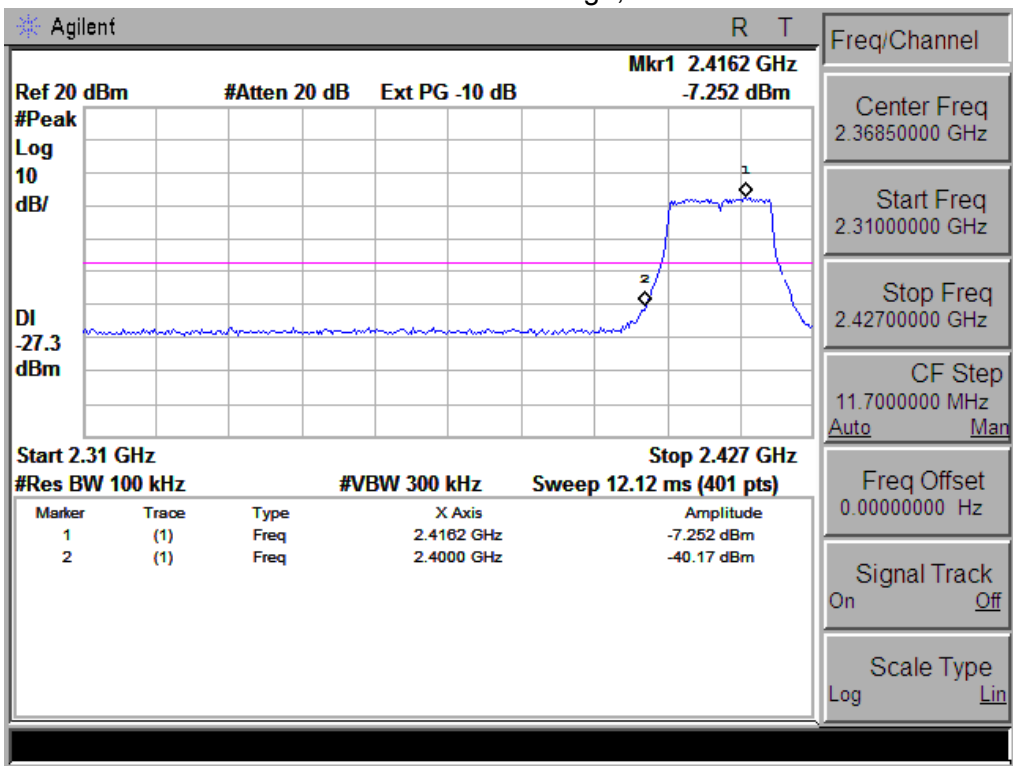
802.11g: Band Edge, Left Side



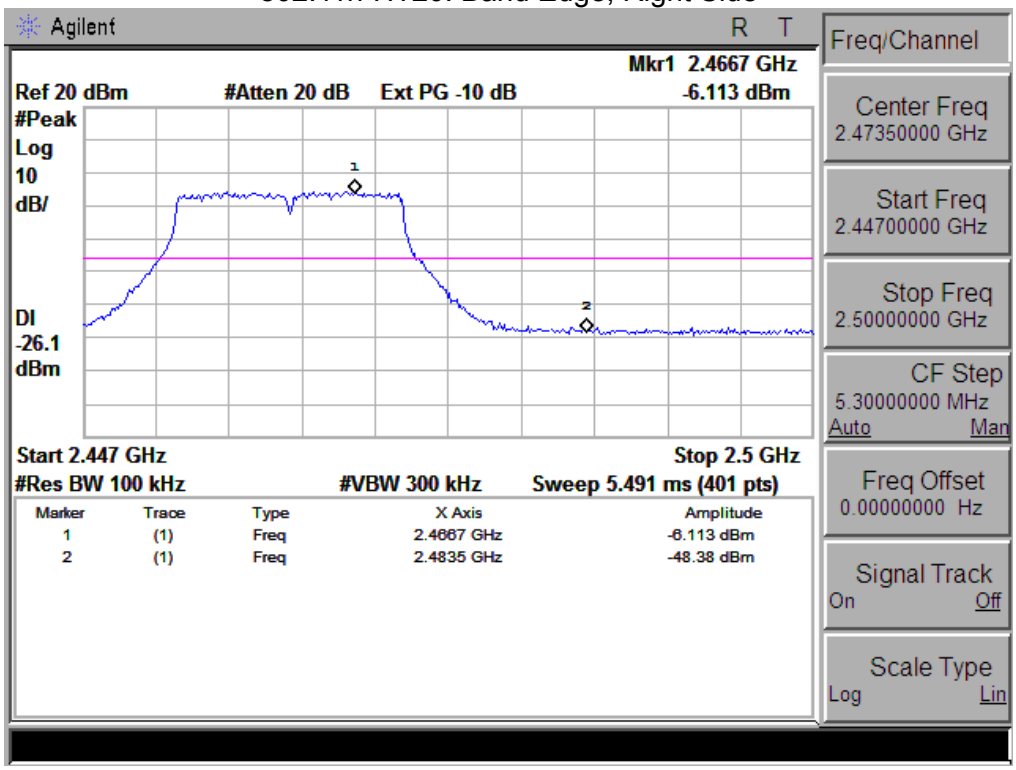
802.11g: Band Edge, Right Side



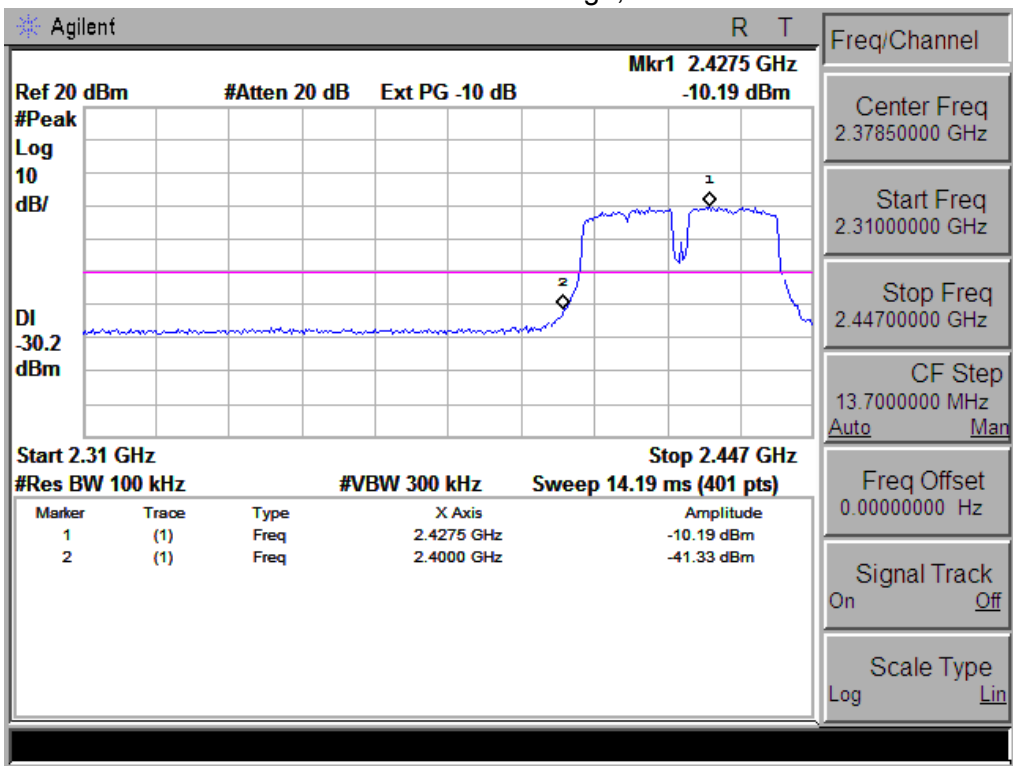
802.11n-HT20: Band Edge, Left Side



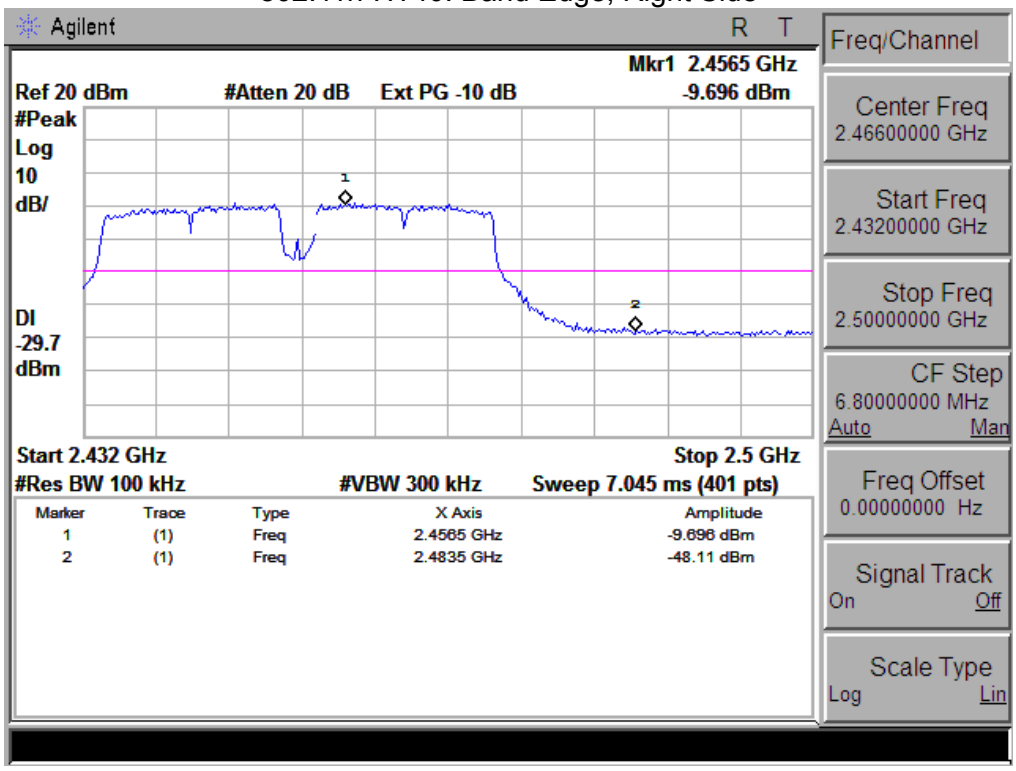
802.11n-HT20: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

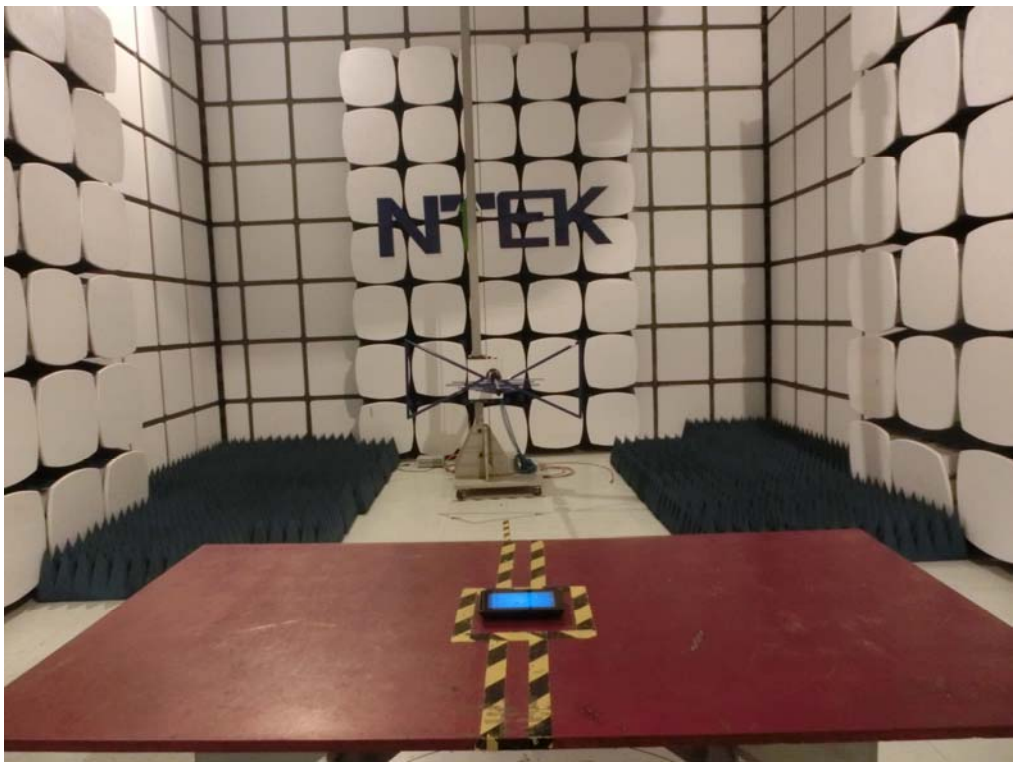
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

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

9. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos