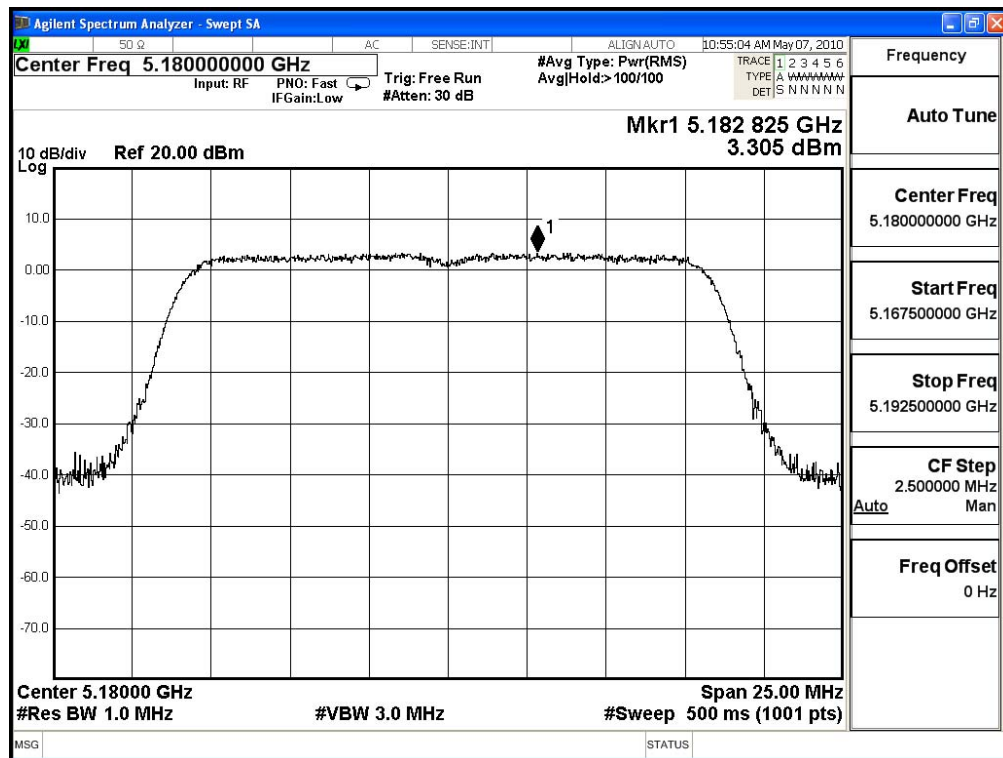


4.6. Test Result of Peak Power Spectral Density

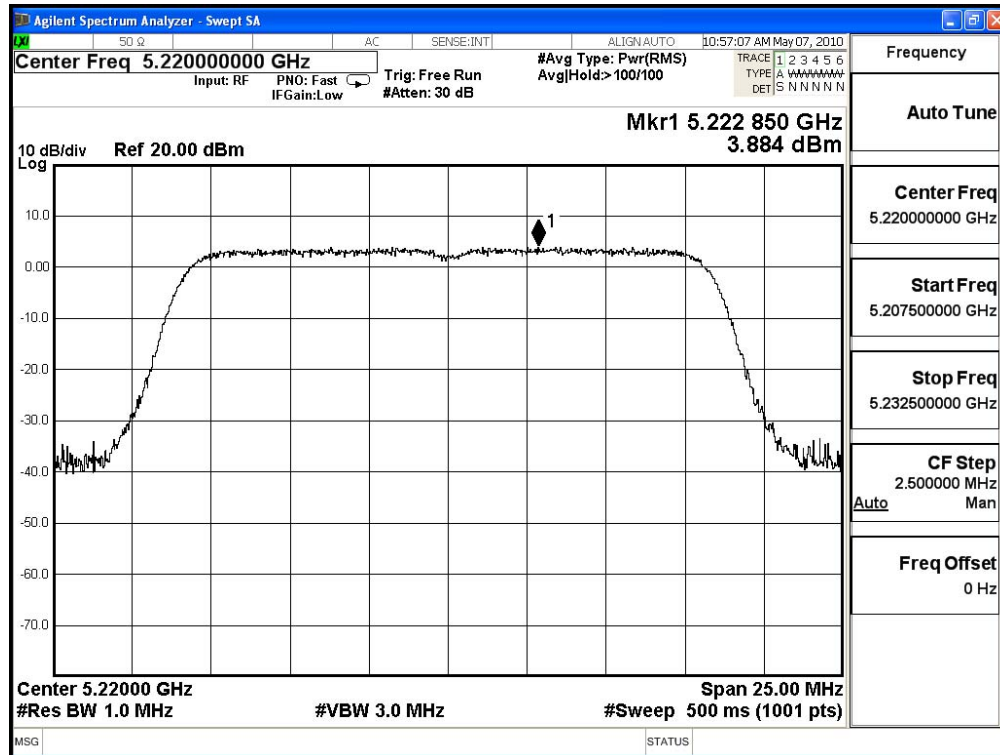
Product : ROS Video DMA
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
36	5180	3.305	<4	Pass
44	5220	3.884	<4	Pass
48	5240	3.938	<4	Pass
52	5260	4.091	<11	Pass
60	5300	4.545	<11	Pass
64	5320	4.480	<11	Pass
100	5500	4.403	<11	Pass
120	5600	4.305	<11	Pass
140	5700	4.845	<11	Pass

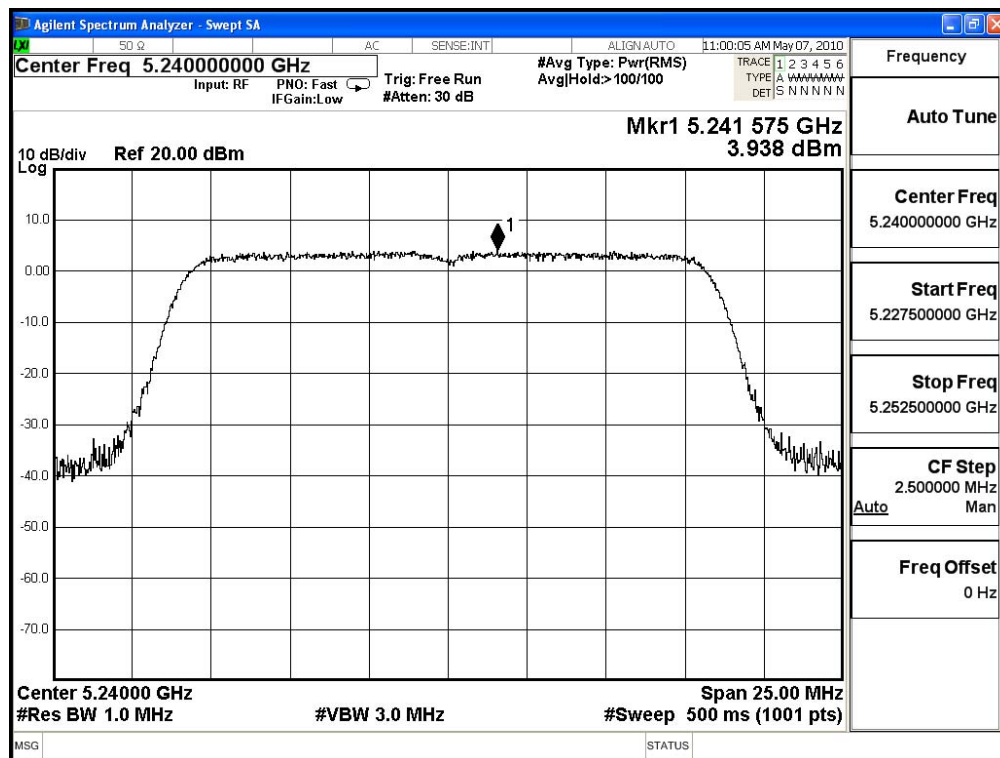
Channel 36:



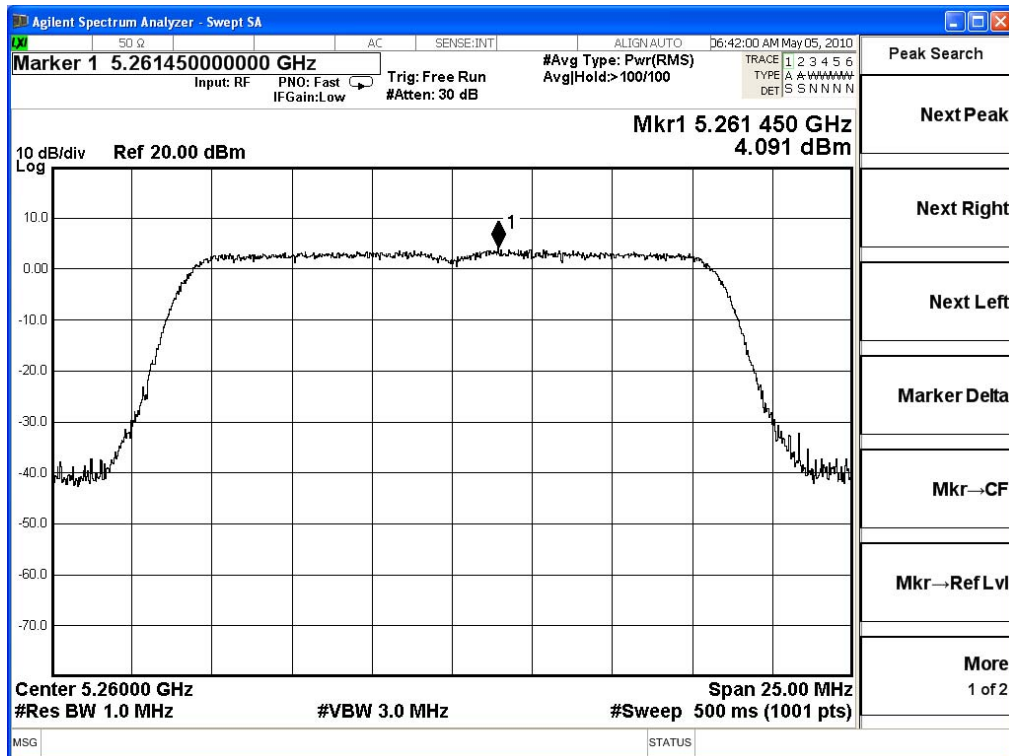
Channel 44:



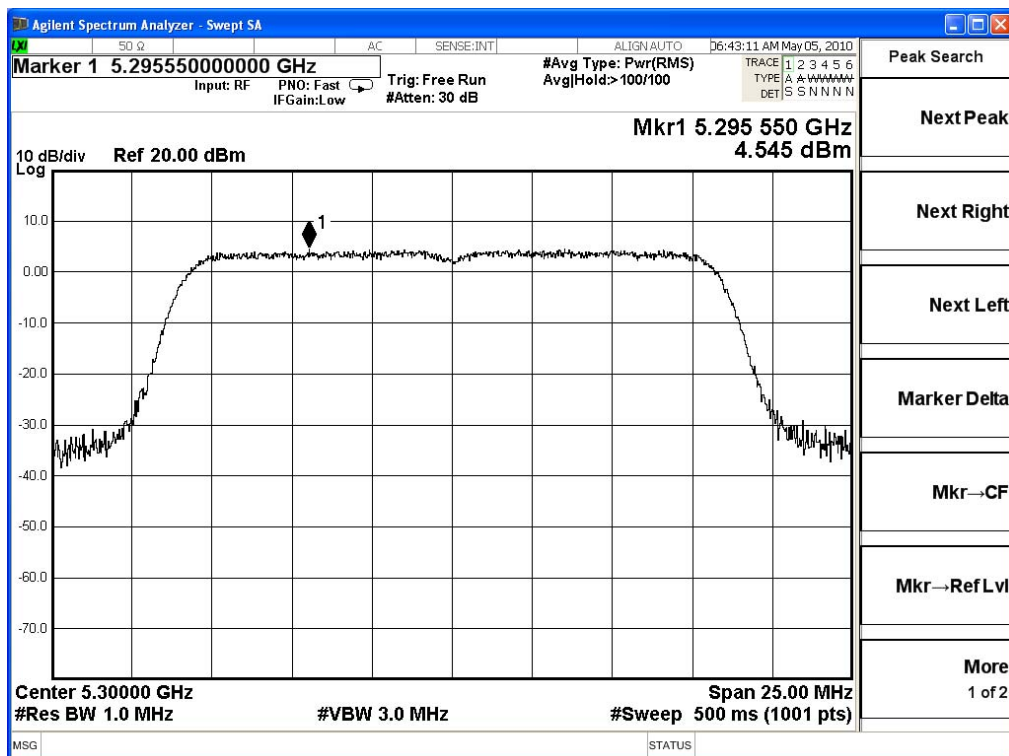
Channel 48:



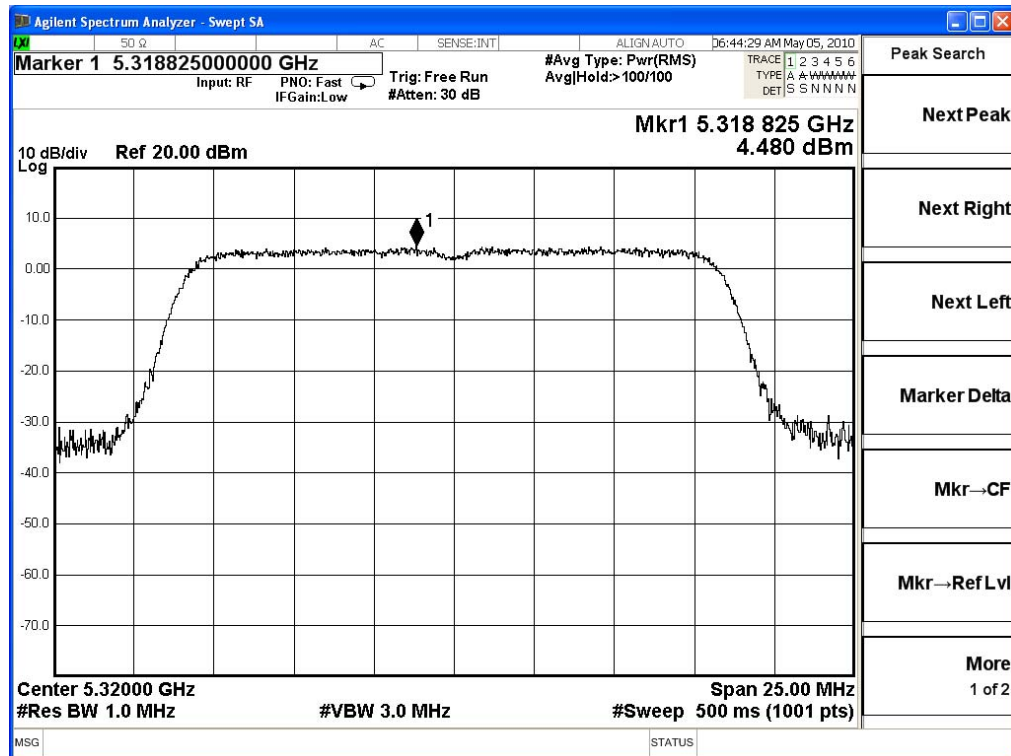
Channel 52:



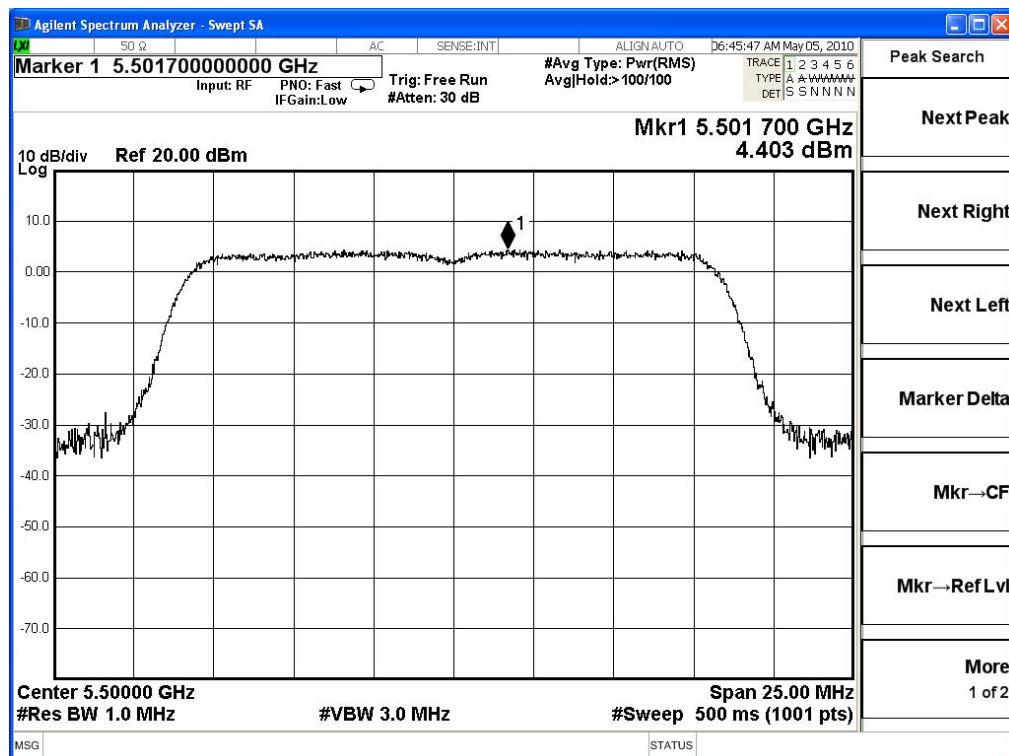
Channel 60:



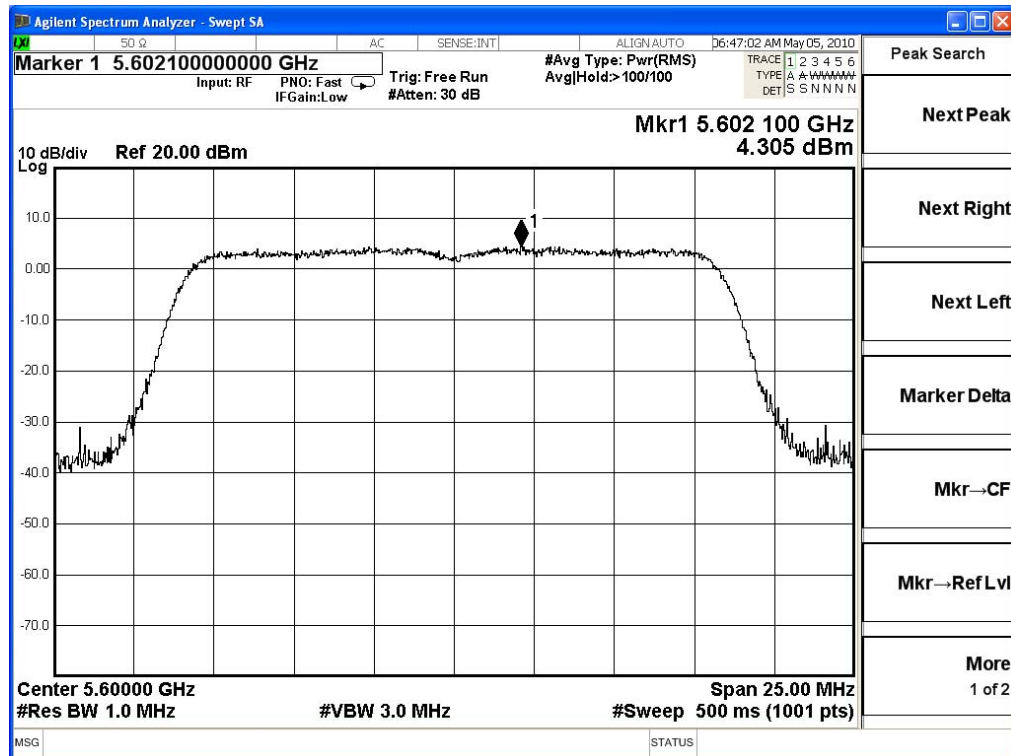
Channel 64:



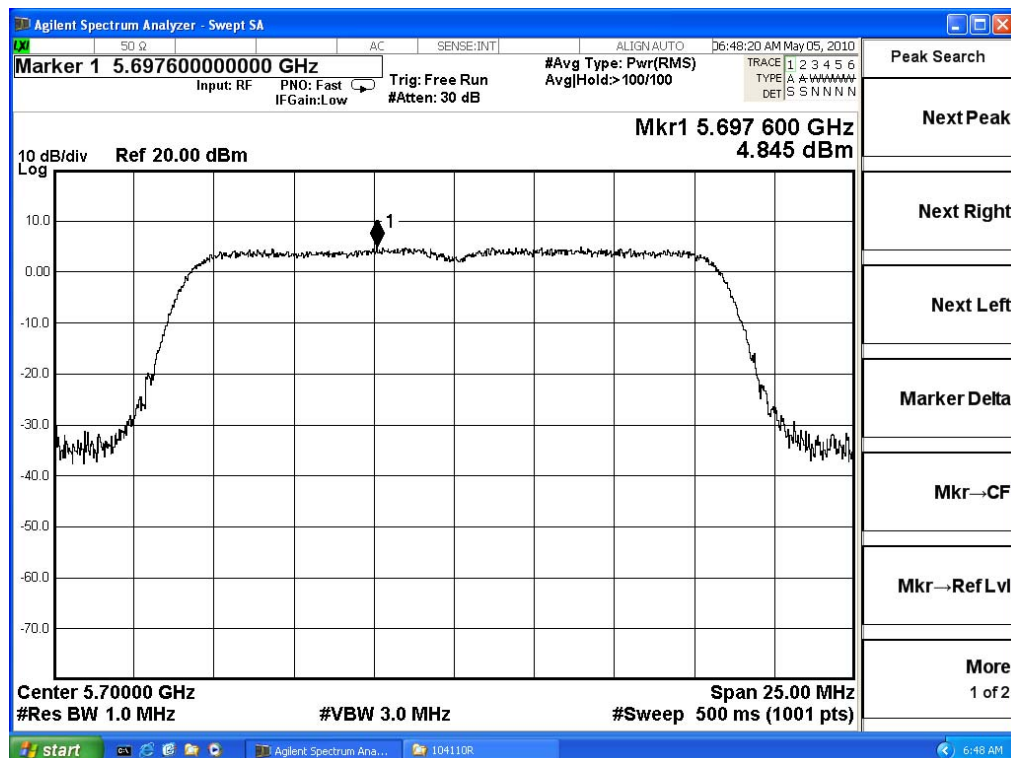
Channel 100:



Channel 120:



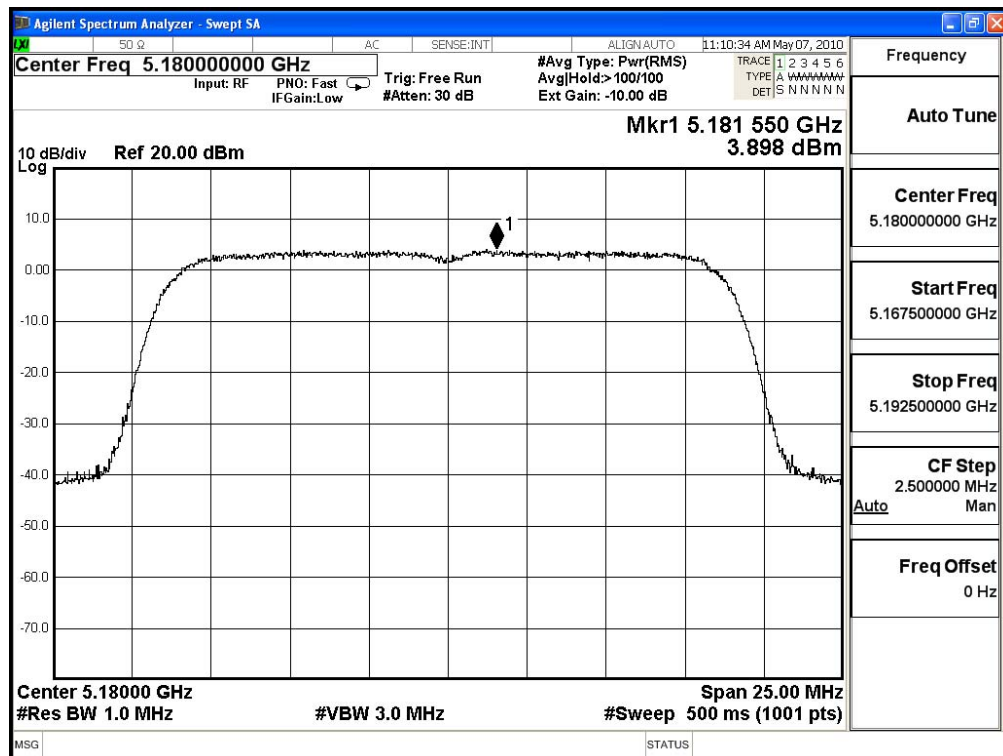
Channel 140:



Product : ROS Video DMA
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11n-20BW 13Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
36	5180	3.898	<4	Pass
44	5220	3.800	<4	Pass
48	5240	1.790	<4	Pass
52	5260	1.360	<11	Pass
60	5300	3.534	<11	Pass
64	5320	3.607	<11	Pass
100	5500	2.555	<11	Pass
120	5600	2.182	<11	Pass
140	5700	2.404	<11	Pass

Channel 36:



Agilent Spectrum Analyzer - Swept SA

50 Ω AC SENSE:INT ALIGN: AUTO 11:16:15 AM May 07, 2010

Marker 1 5.225375000000 GHz #Avg Type: Pwr(RMS) Avg|Hold> 100/100 Ext Gain: -10.00 dB

Input: RF PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 6 TYPE A W W W W W W W W DET S N N N N N N

10 dB/div Ref 20.00 dBm Mkr1 5.225 375 GHz 3.800 dBm

Center 5.22000 GHz Span 25.00 MHz
#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 500 ms (1001 pts)

MSG STATUS

Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More 1 of 2

Agilent Spectrum Analyzer - Swept SA

50 Ω AC SENSE:INT ALIGN AUTO 02:36:11 PM Apr 22, 2010

Marker 1 5.242125000000 GHz

Input: RF PNO: Fast Trig: Free Run #Avg Type: Pwr(RMS) #Ext Gain: -10.00 dB

IF Gain: Low #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE A M W W W W W W
DET S S N N N N N

Mkr1 5.242 125 GHz
1.790 dBm

10 dB/div Ref 20.00 dBm

Center 5.24000 GHz Span 25.00 MHz
#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 500 ms (1001 pts)

MSG STATUS

Peak Search

Next Peak

Next Right

Next Left

Marker Delete

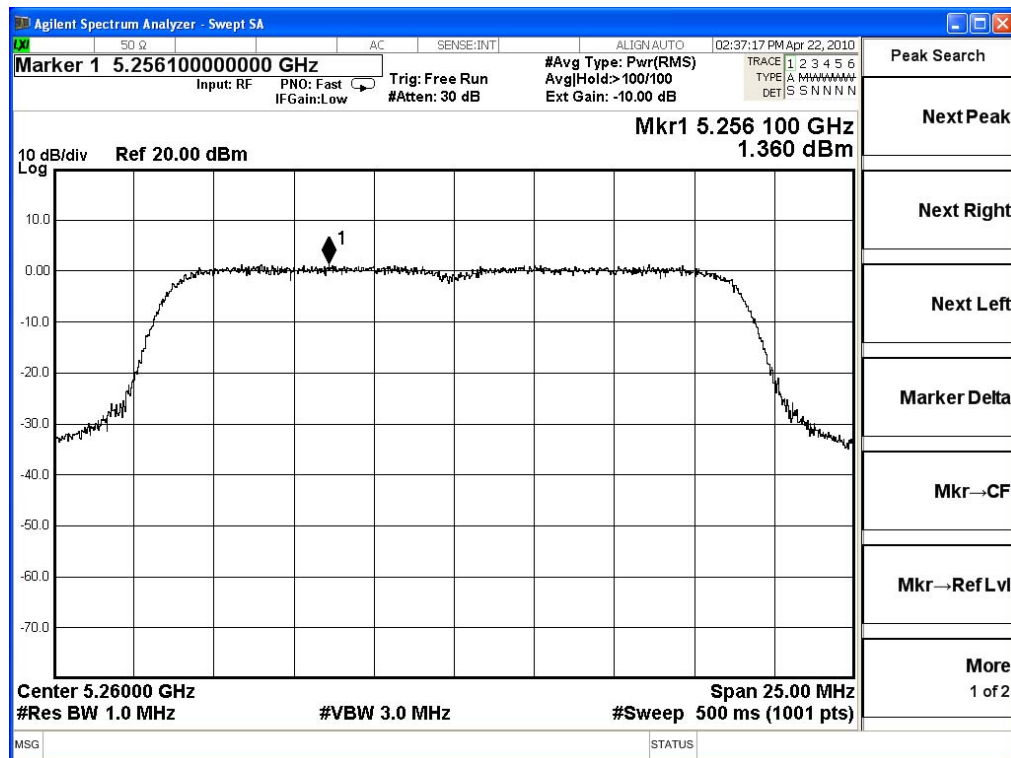
Mkr → Cl

Mkr → Ref L

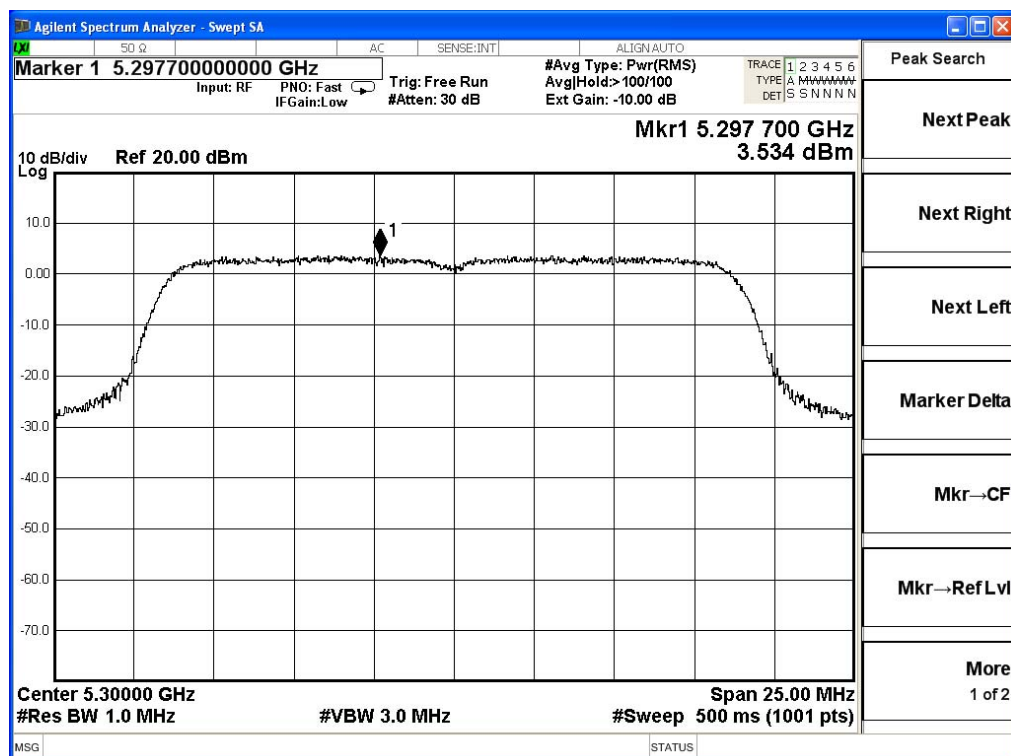
More

1 of

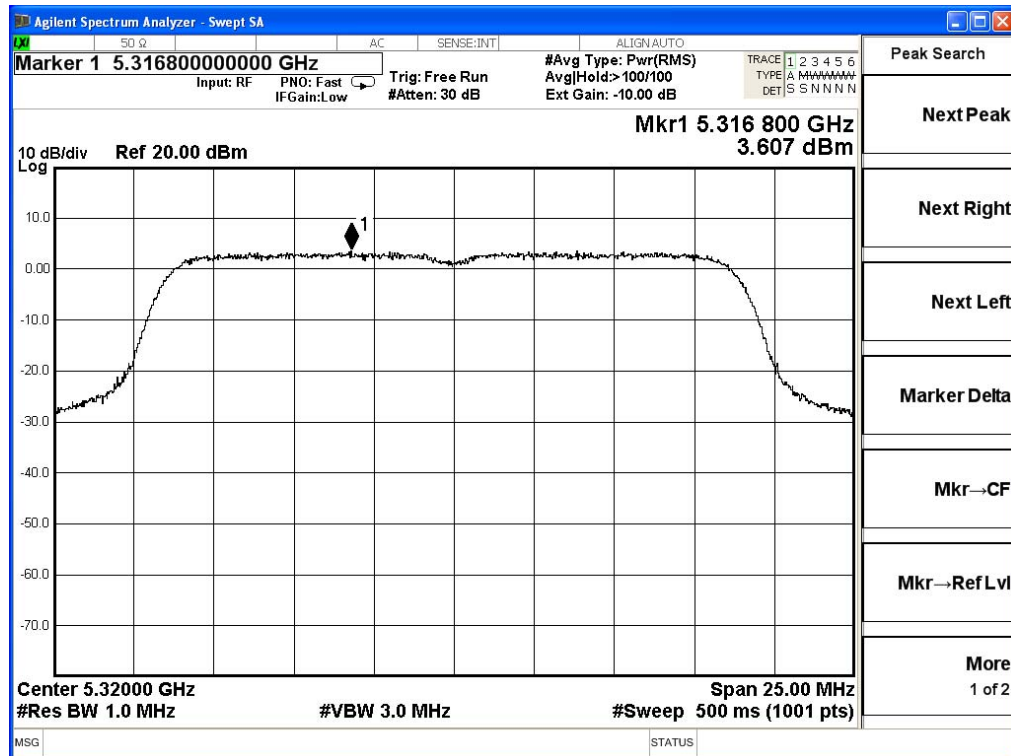
Channel 52:



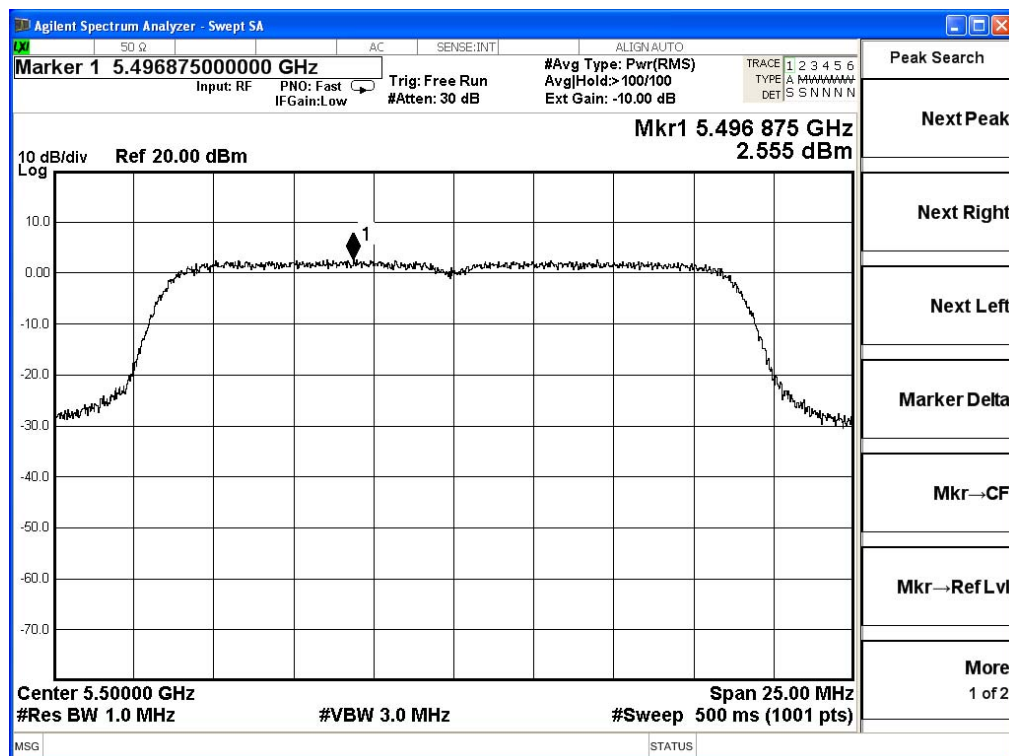
Channel 60:



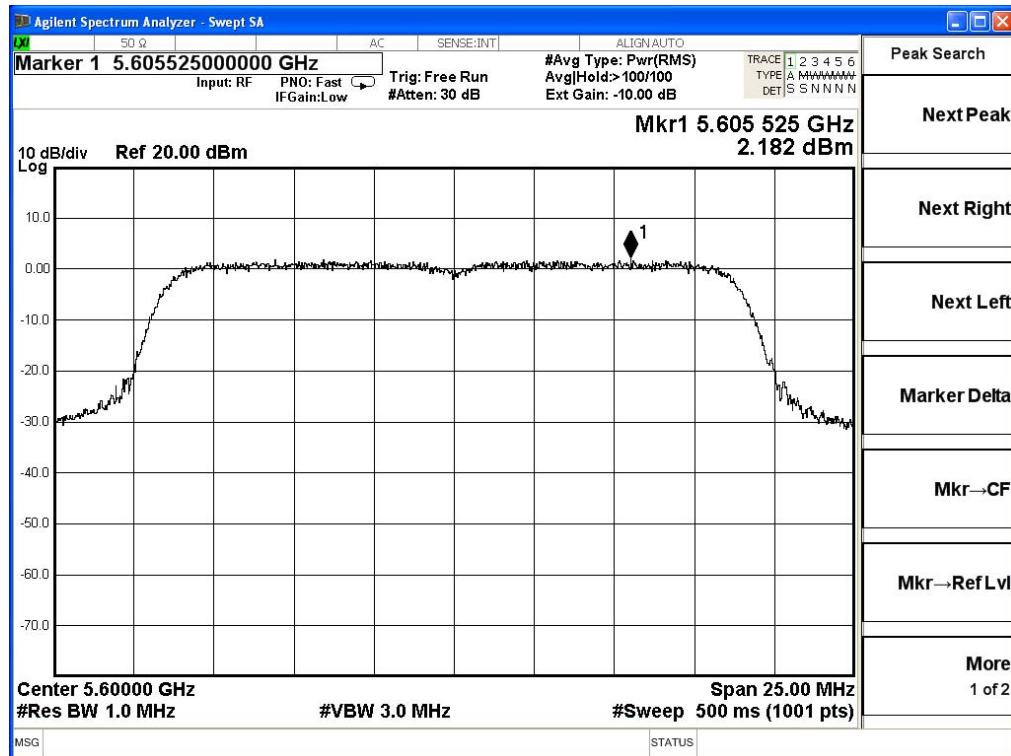
Channel 64:



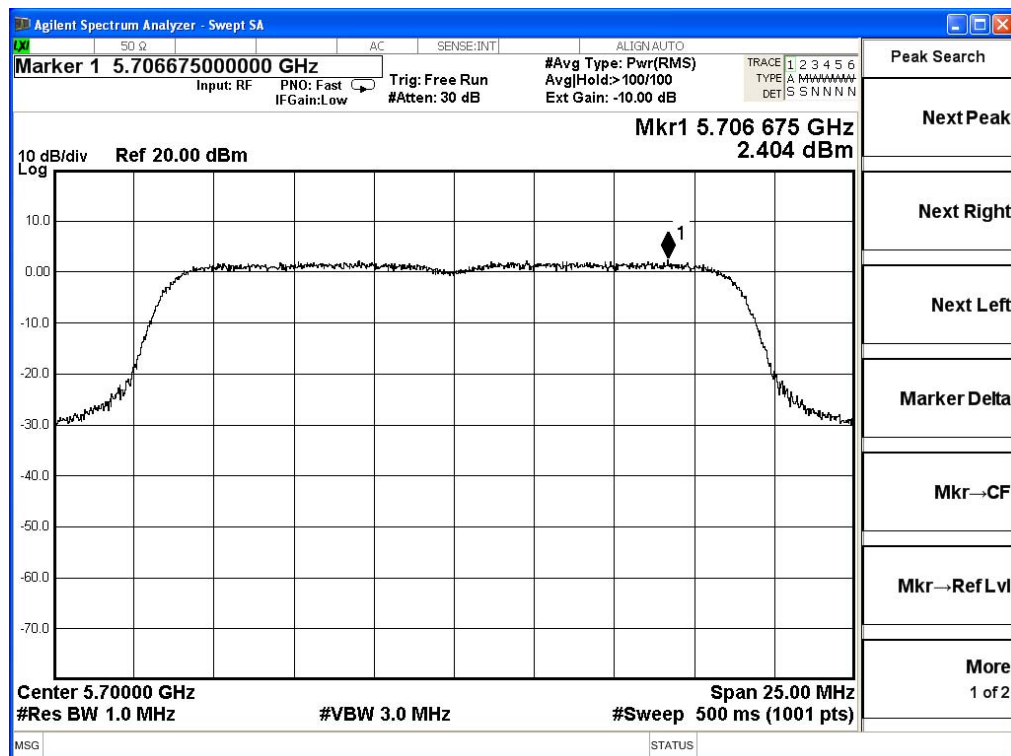
Channel 100:



Channel 120:



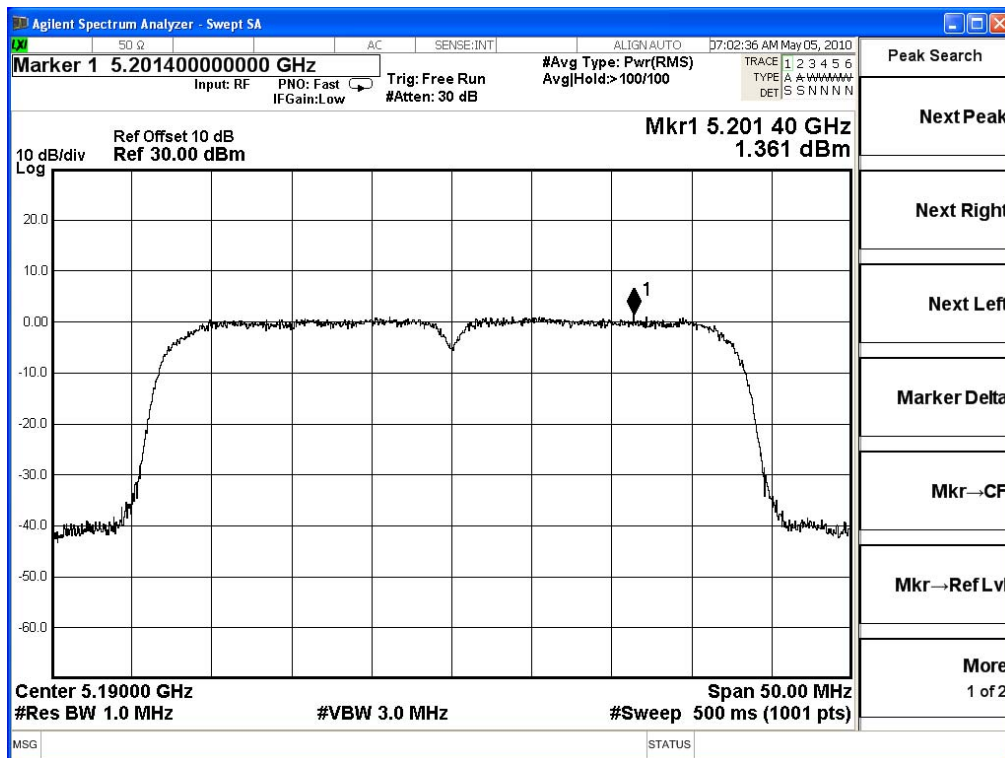
Channel 140:



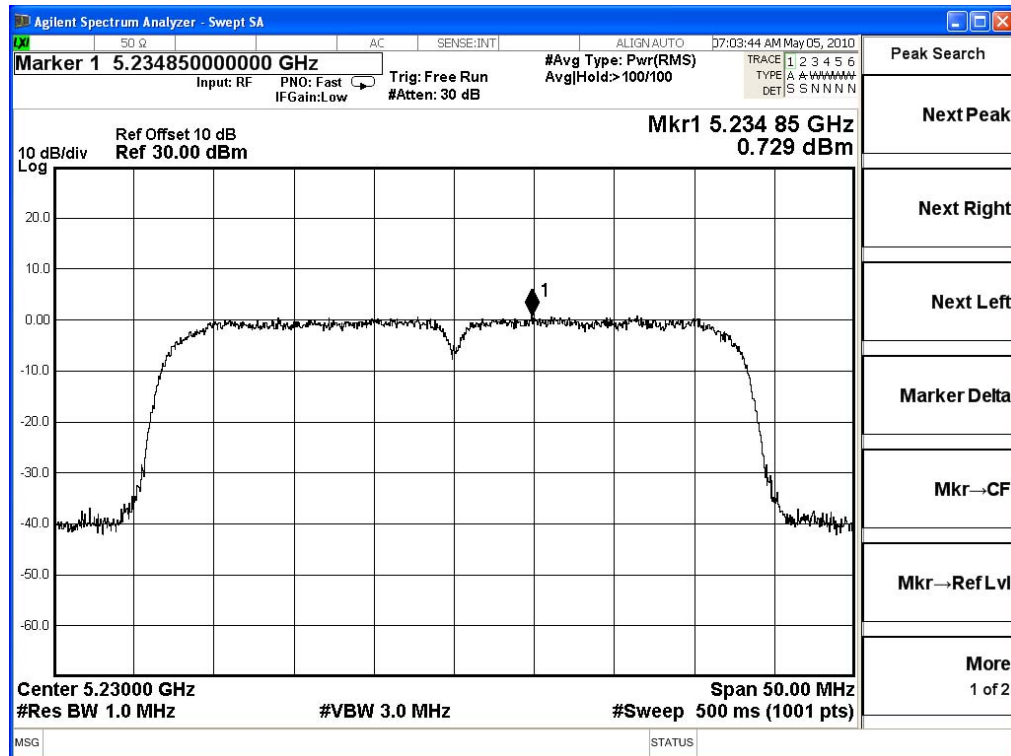
Product : ROS Video DMA
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n-40BW 27Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
38	5190	1.361	<4	Pass
46	5230	0.729	<4	Pass
54	5270	-0.182	<11	Pass
62	5310	0.366	<11	Pass
102	5510	1.092	<11	Pass
118	5590	-0.651	<11	Pass
134	5670	0.124	<11	Pass

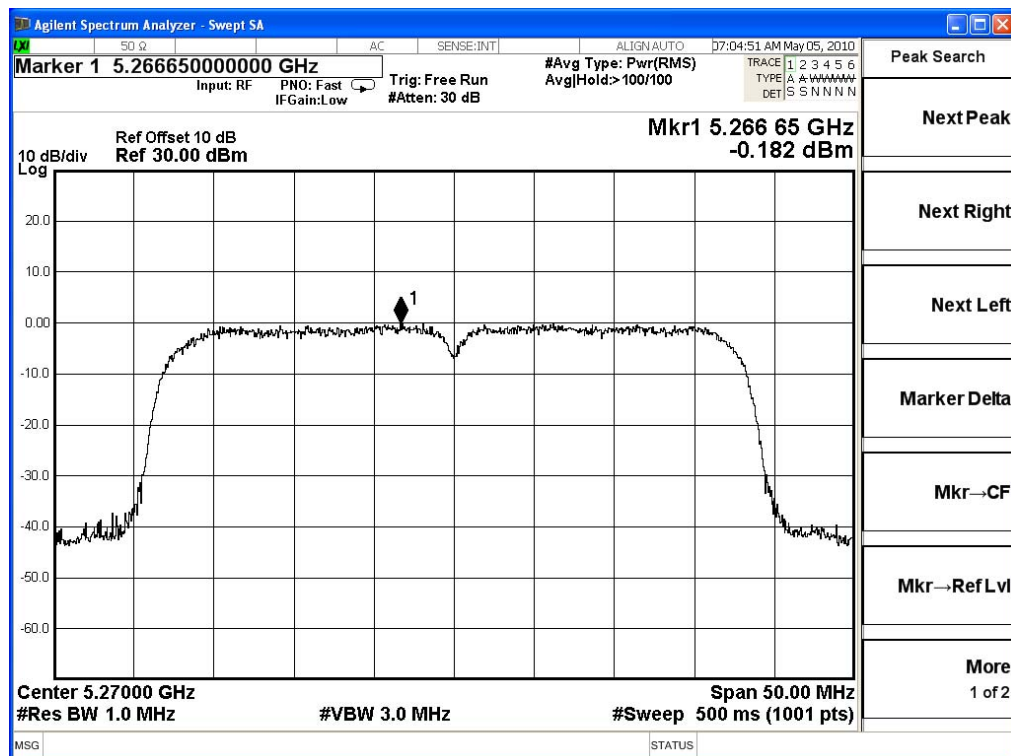
Channel 38:



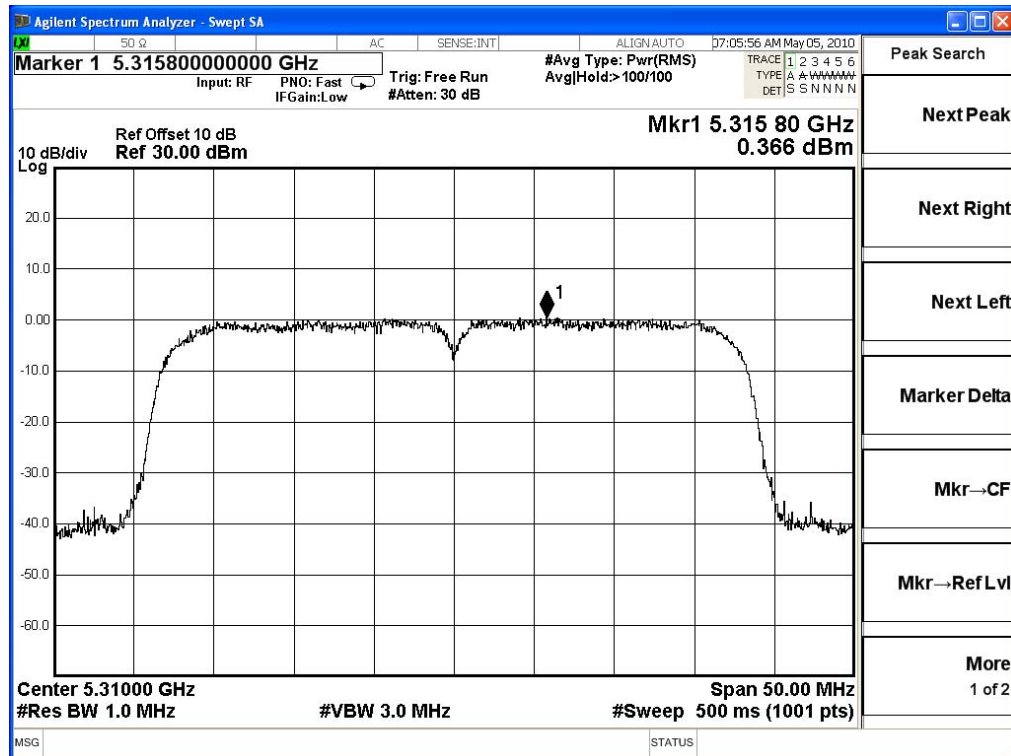
Channel 46:



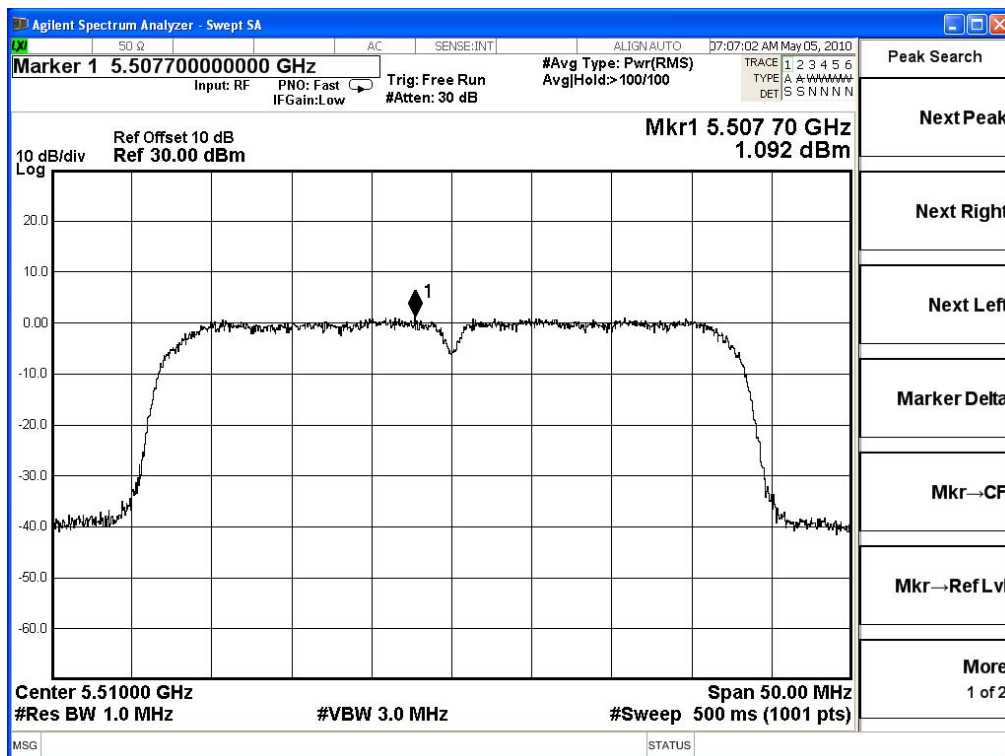
Channel 54:



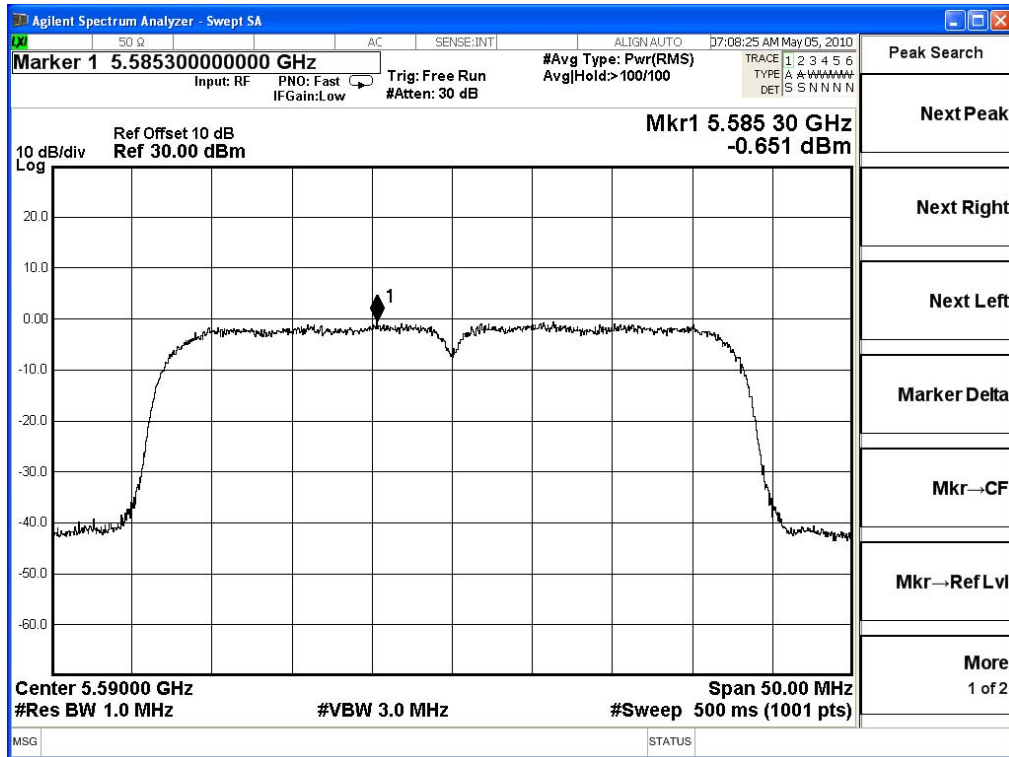
Channel 62:



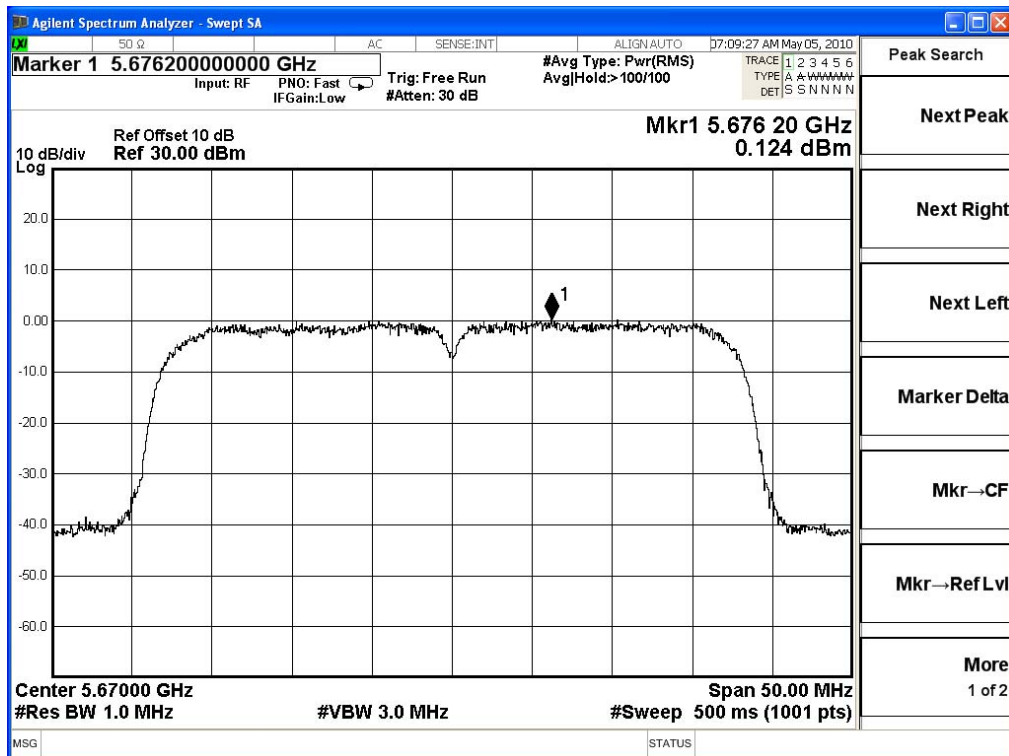
Channel 102:



Channel 118:



Channel 134:



5. Peak Excursion

5.1. Test Equipment

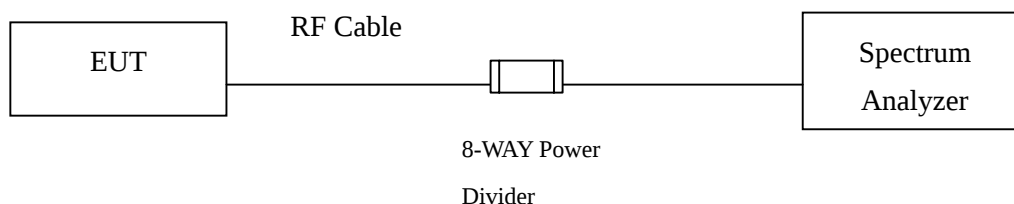
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010
X	8-WAY Power Divider	JFW	50PD-647 / 526770 0916	Apr., 2010

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. The power combiner is used for measure 11n mode.

5.2. Test Setup

Conduction Power Measurement



5.3. Limits

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Aug 2002 DA 02-2138 for compliance to FCC 47CFR Subpart E requirements.

5.5. Uncertainty

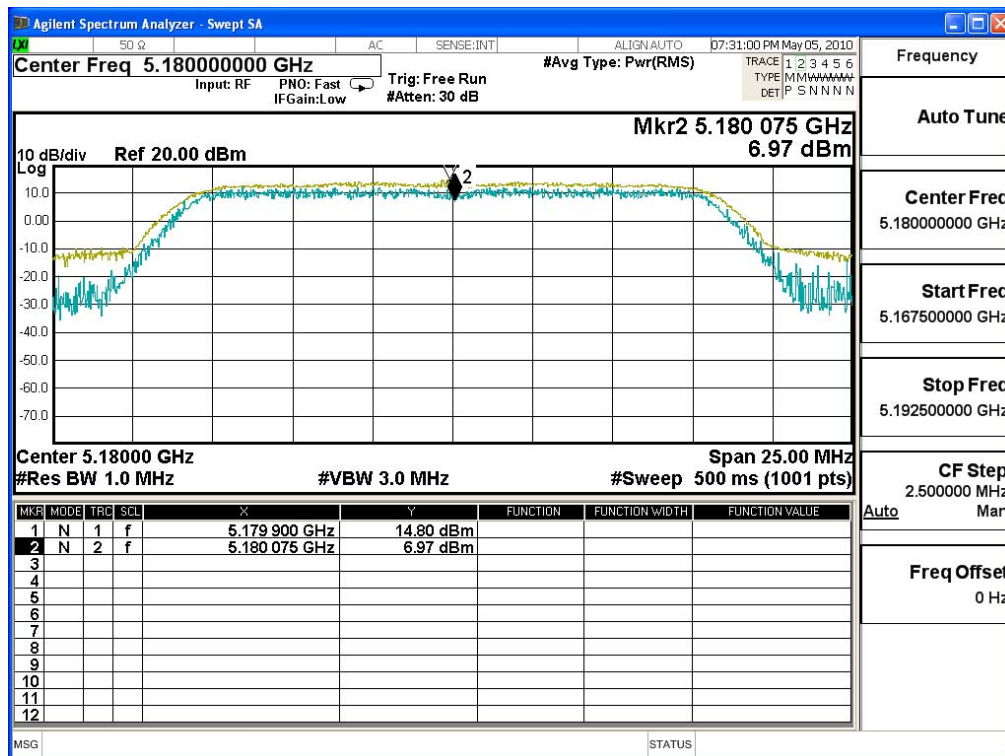
± 1.27 dB

5.6. Test Result of Peak Excursion

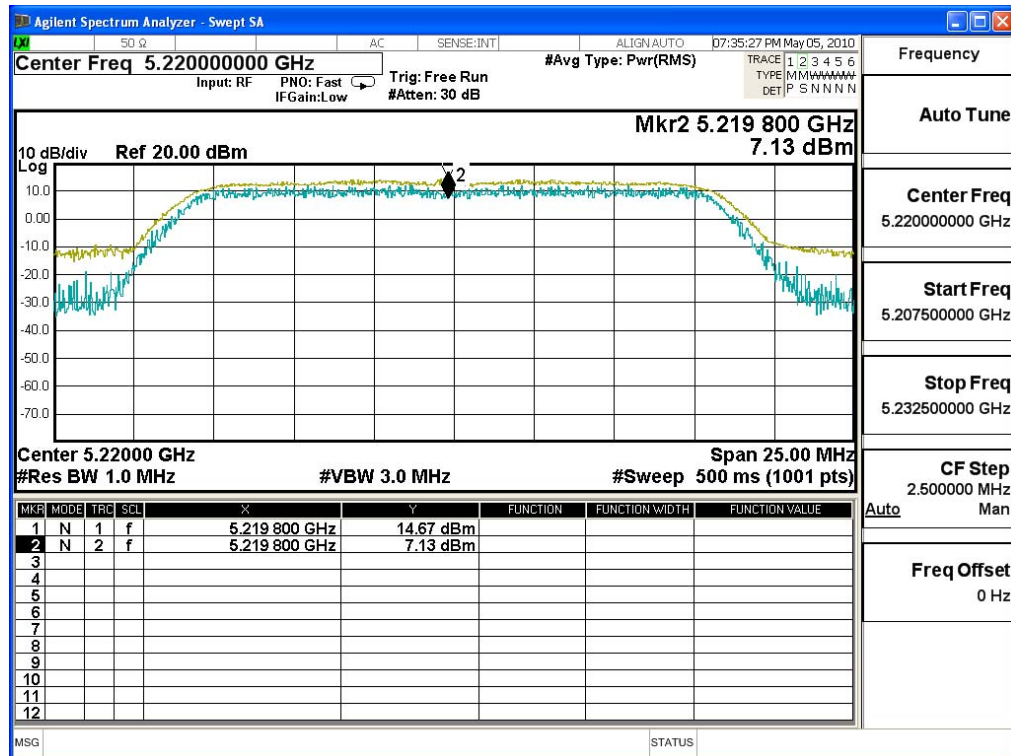
Product : ROS Video DMA
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	7.83	<13	Pass
44	5220	7.54	<13	Pass
48	5240	7.71	<13	Pass
52	5260	8.00	<13	Pass
60	5300	6.59	<13	Pass
64	5320	8.91	<13	Pass
100	5500	6.36	<13	Pass
120	5600	7.93	<13	Pass
140	5700	6.65	<13	Pass

Channel 36:



Channel 44:



Channel 48:

