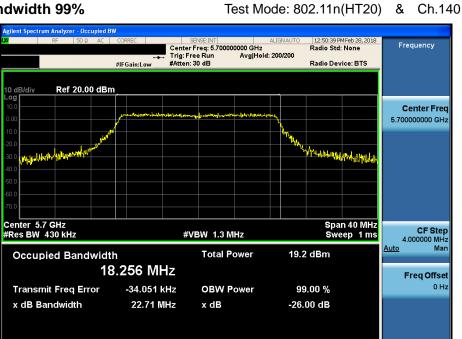




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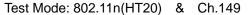


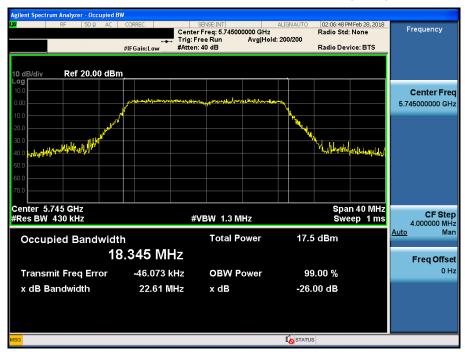
Occupied Bandwidth 99%

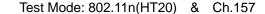


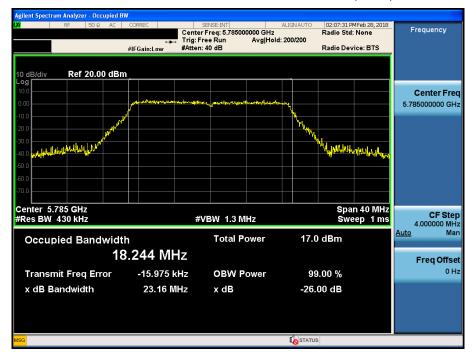
STATUS









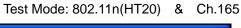








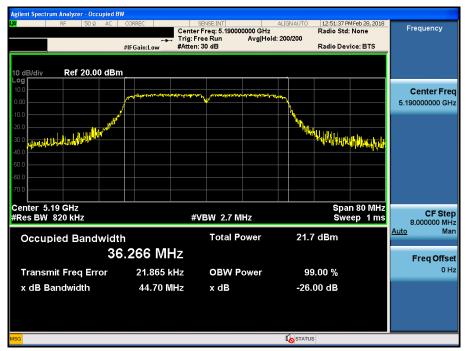






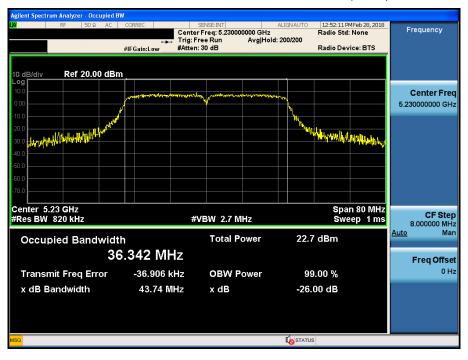




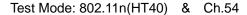


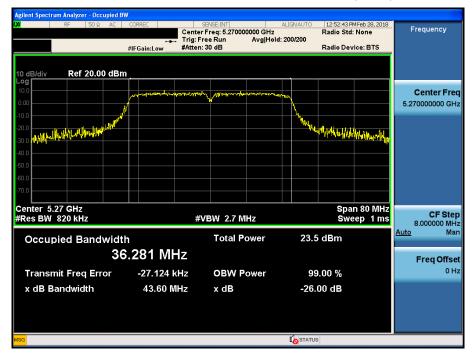
Occupied Bandwidth 99%

Test Mode: 802.11n(HT40) & Ch.46

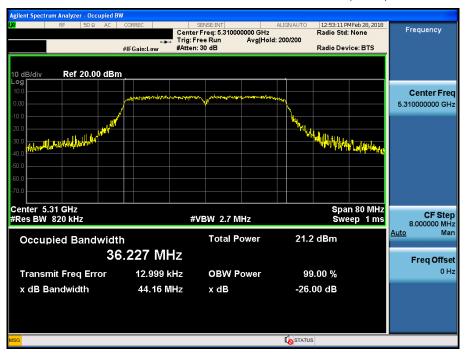




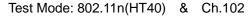


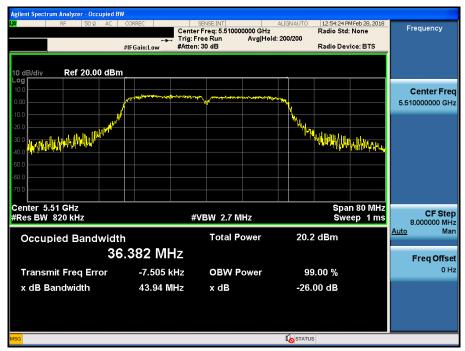


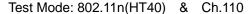


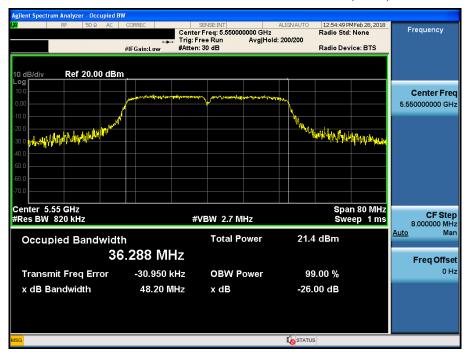










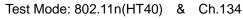






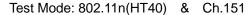


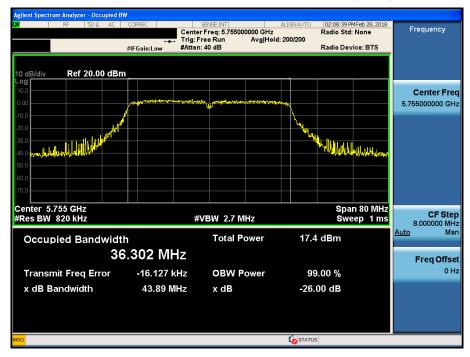


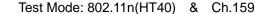


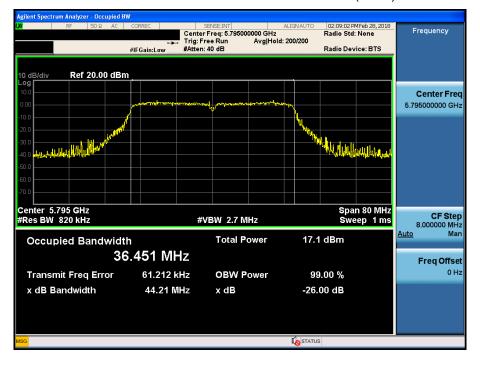














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8. LIST OF TEST EQUIPMENT

Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N	
Spectrum Analyzer	Agilent Technologies	N9020A	17/07/12	18/07/12	MY46471601	
Spectrum Analyzer	Agilent Technologies	N9020A	17/09/05	18/09/05	MY46471251	
Spectrum Analyzer	Agilent Technologies	N9030A	17/09/07	18/09/07	MY53310140	
Multimeter	FLUKE	17B	17/12/26	18/12/26	26030065WS	
DC Power Supply	Agilent	66332A	17/09/05	18/09/05	MY42110550	
Signal Generator	Rohde Schwarz	SMBV100A	17/12/27	18/12/27	255571	
Signal Generator	Rohde Schwarz	SMF100A	17/12/27	18/12/27	102341	
Thermohygrometer	BODYCOM	BJ5478	18/01/03	19/01/03	120612-2	
Temp & Humi Test Chamber	SJ Science	SJ-TH-S50	17/12/28	18/12/28	SJ-TH-S50-120203	
Loop Antenna	ETS	6502	17/07/08	19/07/08	203480	
BILOG ANTENNA	Schwarzbeck	VULB 9160	16/08/05	18/08/05	9160-3362	
Horn Antenna	ETS-LINDGREN	3117	16/05/03	18/05/03	00140394	
Horn Antenna	A.H.Systems Inc.	SAS-574	17/07/31	19/07/31	155	
PreAmplifier	Agilent	8449B	17/09/05	18/09/05	3008A02108	
PreAmplifier	TSJ	MLA-010K01-B01- 27	17/03/06	18/03/06	1844539	
			18/03/05	19/03/05		
PreAmplifier	A.H.Systems Inc.	PAM-1840VH	17/09/17	18/09/17	163	
EMI Test Receiver	Rohde Schwarz	ESR7	17/02/16	18/02/16	101061	
			18/02/13	19/02/13		
High-pass filter	Wainwright	WHNX6-6320- 8000-26500-40CC	17/09/05	18/09/05	18/09/05 1	
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A MA2411B	17/12/27	18/12/27	27 1338004 1306053	
Attenuator	SMAJK	SMAJK-50-10	17/09/06	18/09/06	2-50-10	
EMI TEST RECEIVER	Rohde Schwarz		17/02/16	18/02/16	- 100910	
		ESCI7	18/02/12	19/02/12		
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	17/09/29	18/09/29	101333	
LISN	SCHWARZBECK	NNLK 8121	17/04/03 18/03/20	18/04/03 19/03/20	06183	
CABLE	DTNC	CABLE	NA	NA	RF-61	
CABLE	DTNC	CABLE	NA	NA	RF-82	
CABLE	DTNC	CABLE	NA	NA	C-016-4	
CABLE	DTNC	CABLE	NA	NA	RF-81	
CABLE	Radiall	TESTPRO3	NA	NA	RF-74	
CABLE	HUBER+SUHNER	SUCOFLEX103	NA	NA	RF-75	
	1	1	1	1	1	

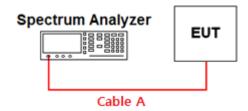
Note: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.



APPENDIX I

Conducted Test set up Diagram

Conducted Measurement







APPENDIX II

Duty Cycle Information

■ Test Procedure

Duty Cycle [X = On Time / (On + Off time)] is measured using Measurement Procedure of KDB789033 D02v02r01

- 1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
- 2. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value.
- 3. Set VBW ≥ RBW. Set detector = peak.
- 4. Note: The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)
 - T: The minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 - (**T = On time** of the above table since the EUT operates with above fixed Duty Cycle and it is the minimum On time)

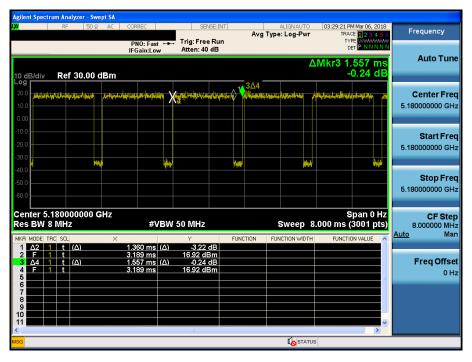
■ Test Results:

Mode	Data Rate	Tested Frequency [MHz]	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction	50/T
			On Time [ms]	On+OffTime [ms]	x	Factor [dB]	[kHz]
802.11a	6Mbps	5180	1.36	1.56	0.87	0.60	36.76
802.11n (HT20)	MCS0	5180	1.27	1.47	0.86	0.64	39.37
802.11n (HT40)	MCS0	5190	0.63	0.83	0.76	1.20	79.37



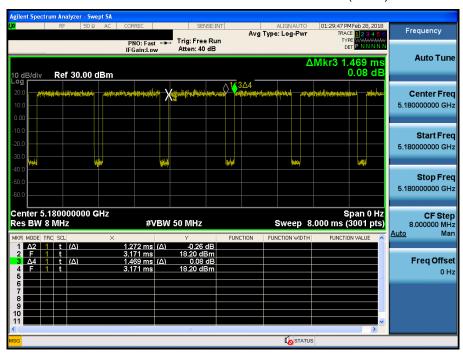
Duty Cycle





Duty Cycle

Test Mode: 802.11n(HT20) & Ch.36



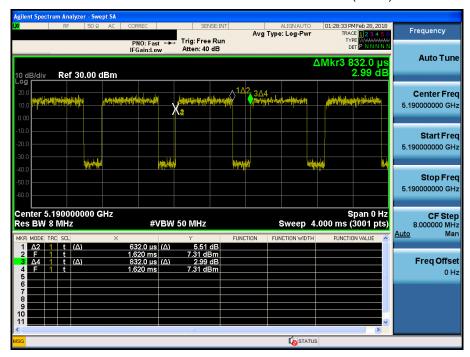


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Duty Cycle







APPENDIX III

Unwanted Emissions (Radiated) Test Plot

802.11a & U-NII 1 & Ch.36 & Yaxis & Hor

Detector Mode: PK



802.11a & U-NII 1 & Ch.36 & Yaxis & Hor



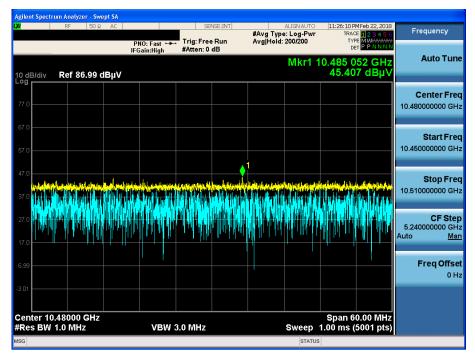






802.11a & U-NII 1 & Ch.48 & X axis & Hor

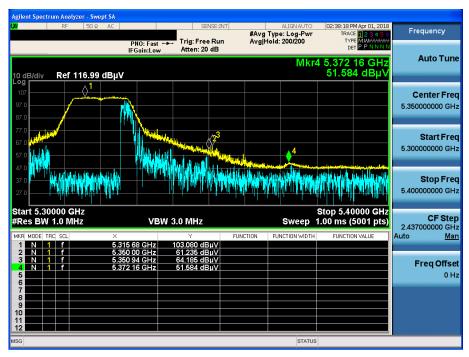
Detector Mode: PK





802.11a & U-NII 2A & Ch.64 & Yaxis & Hor

Detector Mode: PK



802.11a & U-NII 2A & Ch.64 & Yaxis & Hor







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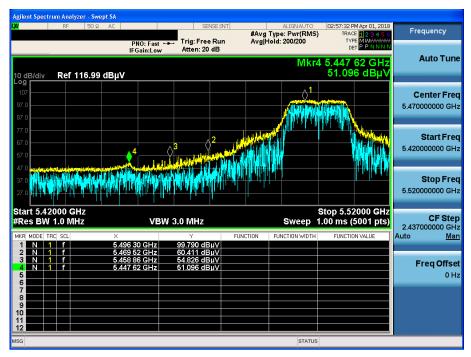
802.11a & U-NII 2A & Ch.64 & X axis & Hor





802.11a & U-NII 2C & Ch.100 & Z axis & Hor

Detector Mode: PK



802.11a & U-NII 2C & Ch.100 & Z axis & Hor



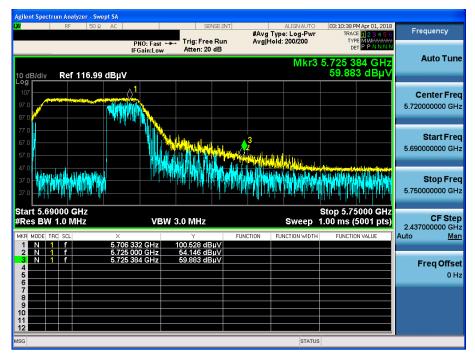


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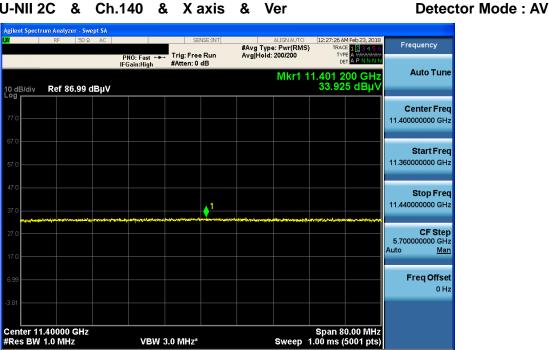
802.11a & U-NII 2C & Ch.140 & Yaxis & Hor

Detector Mode: PK





802.11a & U-NII 2C & Ch.140 & X axis & Ver

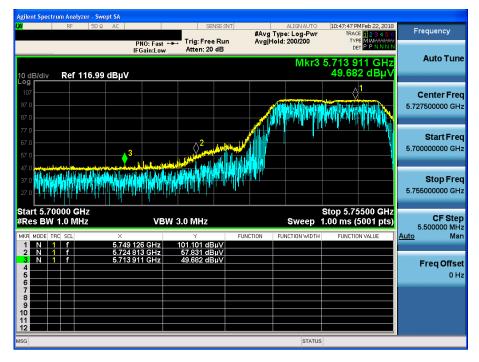


VBW 3.0 MHz*



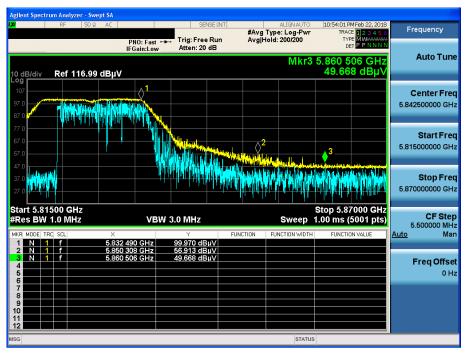
802.11a & U-NII 3 & Ch.149 & Yaxis & Hor

Detector Mode: PK



802.11a & U-NII 3 & Ch.165 & Yaxis & Hor

Detector Mode: PK





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802.11a & U-NII 3 & Ch.165 & Yaxis & Hor





802.11n(HT20) & U-NII 1 & Ch.36 & Yaxis & Hor

Detector Mode: PK



802.11n(HT20) & U-NII 1 & Ch.36 & Yaxis & Hor



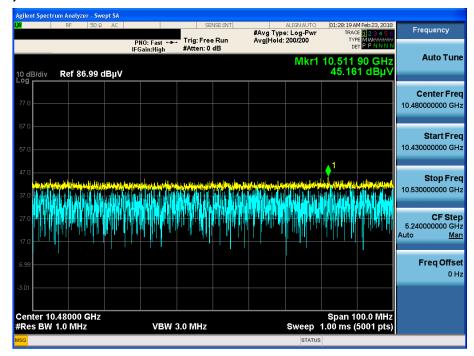


IC: 10664A-PM550



802.11n(HT20) & U-NII 1 & Ch.48 & Z axis & Hor

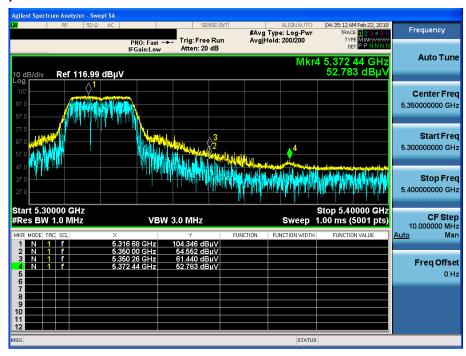






802.11n(HT20) & U-NII 2A & Ch.64 & Yaxis & Hor

Detector Mode: PK



802.11n(HT20) & U-NII 2A & Ch.64 & Y axis & Hor







802.11n(HT20) & U-NII 2A & Ch.64 & Z axis & Hor

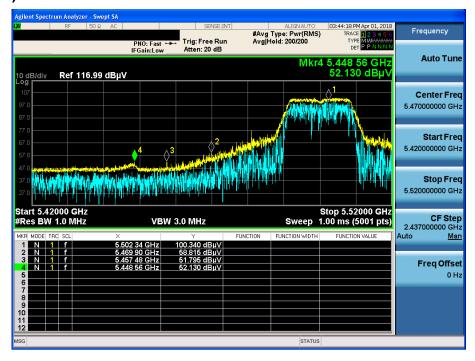






802.11n(HT20) & U-NII 2C & Ch.100 & Yaxis & Hor

Detector Mode: PK



802.11n(HT20) & U-NII 2C & Ch.100 & Yaxis & Hor







802.11n(HT20) & U-NII 2C & Ch.140 & Yaxis & Hor

Detector Mode: PK







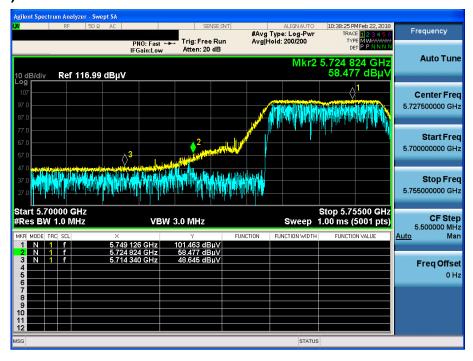
802.11n(HT20) & U-NII 2C & Ch.140 & Z axis & Ver





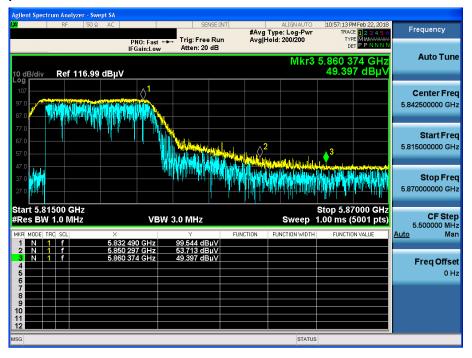
802.11n(HT20) & U-NII 3 & Ch.149 & Yaxis & Hor

Detector Mode: PK



802.11n(HT20) & U-NII 3 & Ch.165 & Yaxis & Hor

Detector Mode: PK







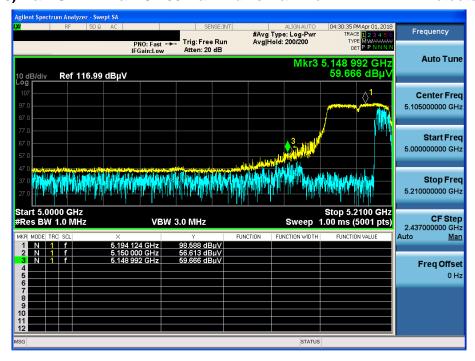
802.11n(HT20) & U-NII 3 & Ch.165 & X axis & Ver





802.11n(HT40) & U-NII 1 & Ch.38 & Yaxis & Hor

Detector Mode: PK



802.11n(HT40) & U-NII 1 & Ch.38 & Yaxis & Hor



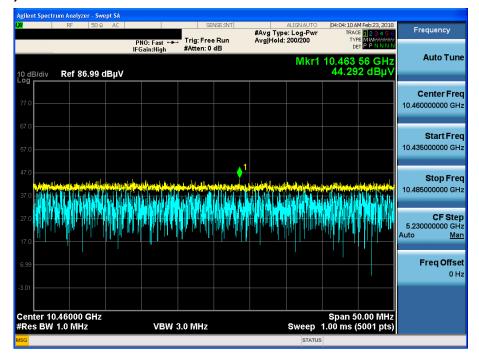






802.11n(HT40) & U-NII 1 & Ch.46 & Yaxis & Hor

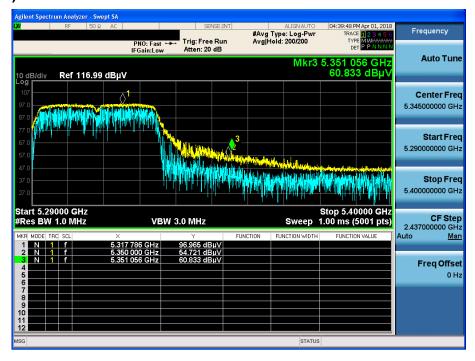






802.11n(HT40) & U-NII 2A & Ch.62 & Yaxis & Hor

Detector Mode: PK



802.11n(HT40) & U-NII 2A & Ch.62 & Y axis & Hor







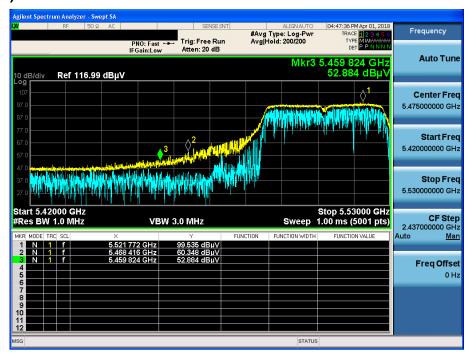
802.11n(HT40) & U-NII 2A & Ch.62 & Yaxis & Hor







802.11n(HT40) & U-NII 2C & Ch.102 & Yaxis & Hor **Detector Mode: PK**



802.11n(HT40) & U-NII 2C & Ch.102 & Yaxis & Hor





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802.11n(HT40) & U-NII 2C & Ch.134 & Yaxis & Hor

Detector Mode: PK





IC: 10664A-PM550



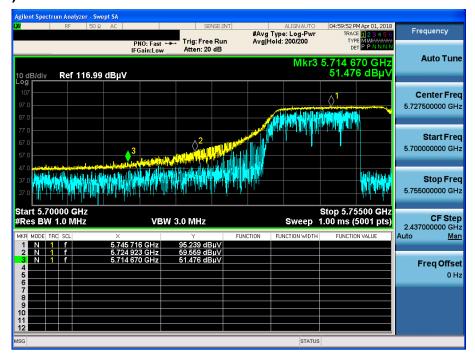
802.11n(HT40) & U-NII 2C & Ch.134 & Yaxis & Ver Detector Mode : AV





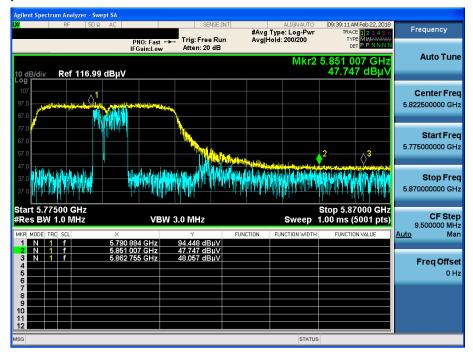
802.11n(HT40) & U-NII 3 & Ch.151 & Yaxis & Hor

Detector Mode: PK



802.11n(HT40) & U-NII 3 & Ch.159 & Yaxis & Hor

Detector Mode: PK





IC: 10664A-PM550



802.11n(HT40) & U-NII 3 & Ch.159 & Yaxis & Hor



