

TEST REPORT

FCC Standards : FCC 47CFR part 15 subpart E

Test Report No. : CTK-2016-00185
Date of Issue : 2016-02-18
FCC ID : RTQLPT200AR
Model/Type No. : LPT-200AR
Kind of Product : Tablet PC
Applicant : LG CNS CO.,LTD.
Applicant Address : FKI Tower, 24, Yeoui-daero, Yeongdeungpo-gu, Seoul, Korea, 07320
Manufacturer : ART&CORE Inc
Manufacturer Address : 44 Burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea
Factory #1 : ARTVIEW CO.,LTD.
Factory Address : 5F, 44, burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea
Contact Person : Jae hee Lee
Telephone : +82-2-2099-0167
Received Date : 2015-12-30
Test period : Start : 2016-01-19 End : 2016-02-17

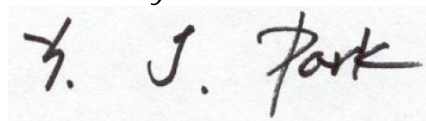
The test results presented in this report relate only to the object tested.

Tested by



Won-Jae, Hwang
Test Engineer
Date: 2016-02-18

Reviewed by



Young-Joon, Park
Technical Manager
Date: 2016-02-18



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REPORT REVISION HISTORY

Date	Revision	Page No
2016-02-18	Issued (CTK-2016-00185)	All

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1.0 General Product Description

Equipment model name	LPT-200AR			
Serial number	Prototype			
EUT condition	Pre-production, not damaged			
Frequency Range	UNII 1 : 5180 MHz – 5240 MHz (20 MHz_BW) 5190 MHz – 5230 MHz (40 MHz_BW) UNII 2A : 5260 MHz – 5320 MHz (20 MHz_BW) 5270 MHz – 5310 MHz (40 MHz_BW) UNII 2C : 5500 MHz – 5700 MHz (20 MHz_BW) 5510 MHz – 5670 MHz (40 MHz_BW) UNII 3 : 5745 MHz – 5825 MHz (20 MHz_BW) 5755 MHz – 5795 MHz (40 MHz_BW)			
RF output power :				
Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	ANT1 (SISO) RF output power (dBm)
UNII 1	802.11a	20	5180 – 5240	16.33
	802.11n	20	5180 - 5240	16.29
	802.11n	40	5190 – 5230	16.53
UNII 2A	802.11a	20	5260 – 5320	16.43
	802.11n	20	5260 – 5320	16.22
	802.11n	40	5270 – 5310	16.25
UNII 2C	802.11a	20	5500 – 5700	16.49
	802.11n	20	5500 – 5700	16.29
	802.11n	40	5510 – 5670	16.51
UNII 3	802.11a	20	5745 – 5825	16.10
	802.11n	20	5745 – 5825	16.03
	802.11n	40	5755 - 5795	16.12
Transfer Rate	802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 150 Mbps			
Type of Modulation	OFDM			
Power Source	DC 22 V			
Duty Cycle	802.11a : 97.3 % 802.11n_HT20 : 97.3 % 802.11n_HT40 : 96.5 %			
Antenna Type	PCB antenna			
Antenna Gain	4.1 dBi @2.4GHz, 5.9 dBi @5GHz			
Hardware Rev	DS2 (2015-11-30)			
Software Rev	ALPS.L1.MP8.V2.7_ANC8127.SB.BRS.L1 (2015-12-15)			
Firmware Rev	0x0104			

1.1 Test mode

Test Item	Modulation	Data Rate
6 dB/26 dB/99% Bandwidth Conducted Output Power Power Spectral Density	802.11a	6 Mbps
	802.11n_HT20	MCS 0
Frequency Stability Undesirable emission Radiated Emissions Above 1GHz	802.11n_HT40	MCS 0
Radiated Emissions Below 1GHz AC Conducted Emissions	Normal Mode	Auto

1.2 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

1.3 EUT Exercise of Software

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. The software is using the android system to internal memory.

1.4 Tested Frequency

802.11a, 802.11n_HT20

Frequency (MHz)	LOW	MID	HIGH
UNII 1	5180	5200	5240
UNII 2A	5260	5300	5320
UNII 2C	5500	5600	5700
UNII 3	5745	5785	5825

802.11n_HT40

Frequency (MHz)	LOW	MID	HIGH
UNII 1	5190	-	5230
UNII 2A	5270	-	5310
UNII 2C	5510	5590	5670
UNII 3	5755	-	5795

1.5 Device Modifications

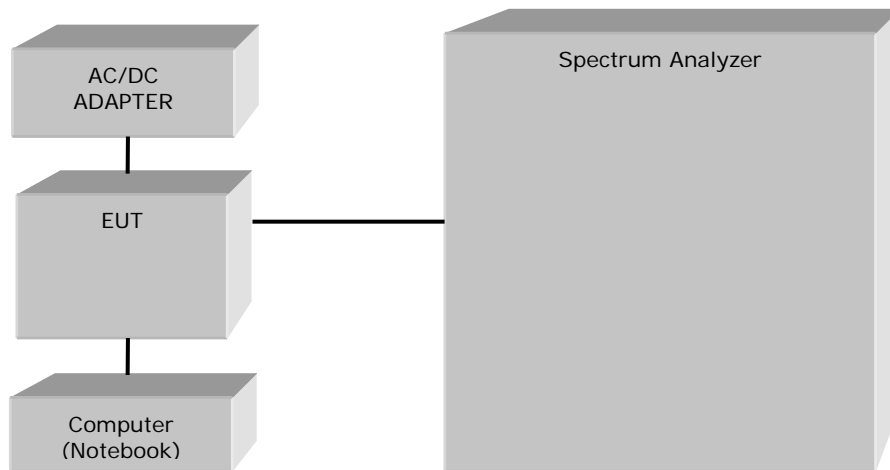
The following modifications were necessary for compliance:

Not applicable

1.6 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	LG Electronics.	LGE-DMLGS1 (B)	703KIUP015110
AC ADAPTER	Dongguang Lite Power 2nd Plant	PA-1900-08	-

1.7 Configuration of System under Test






1.8 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

1.9 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.10 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	
JAPAN	VCCI	VCCI V-3 EMI (Electromagnetic Interference / Emission)	C-986 T-1843 R-3627 G-387	
KOREA	MSIP	EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity)	KR0025	

2 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.407(e)	6 dB Bandwidth	> 500 kHz	Conducted	C
15.407(a)	26 dB Bandwidth and 99% Bandwidth	NA		C
15.407(a)(1)	Conducted Output Power	< 1 W (5150 – 5250 MHz) < 250 mW (5250 – 5350 MHz) < 250 mW (5470 – 5725 MHz) < 1 W (5725 – 5850 MHz)		C
15.407(a)(1)	Power Spectral Density	< 17 dBm/MHz (5150 – 5250 MHz) < 11 dBm/MHz (5250 – 5350 MHz) < 11 dBm/MHz (5470 – 5725 MHz) < 30 dBm/500KHz (5725 – 5850 MHz)		C
15.407(g)	Frequency Stability	NA		C
15.407 (b)	Undesirable emission	< -27 dBm/MHz EIRP (5150 – 5250 MHz, 5250 – 5350 MHz, 5470 – 5725 MHz) < -17 dBm/MHz EIRP (5715 – 5725 MHz, 5850 – 5860 MHz) < -27 dBm/MHz EIRP outside (5715 - 5850 MHz)	Radiated	C
15.205, 15.407 (b)(1), (5), (6)	Radiated Spurious Emission	15.209(a)		C
15.207	AC Conducted Emissions	15.207(a)	Line Conducted	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

The sample was tested according to the following specification:
- FCC Part 15.407, ANSI C63.10-2013

The tests were performed according to the method of measurements prescribed in
KDB No.789033 D02 General UNII Test Procedures New Rules v01



2.1 Technical Characteristic Test

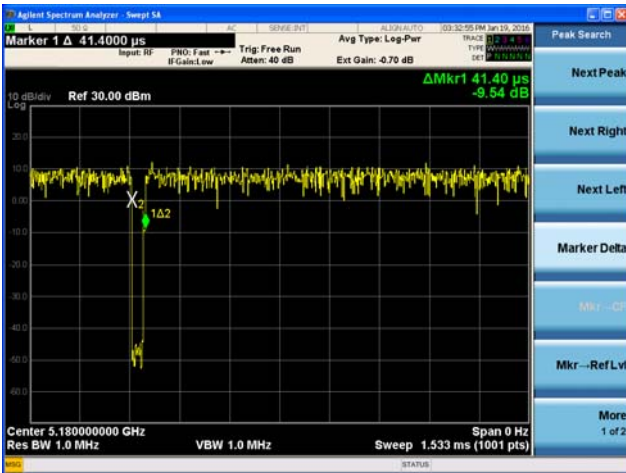
2.1.1 ON Time, Duty Cycle

Procedure:

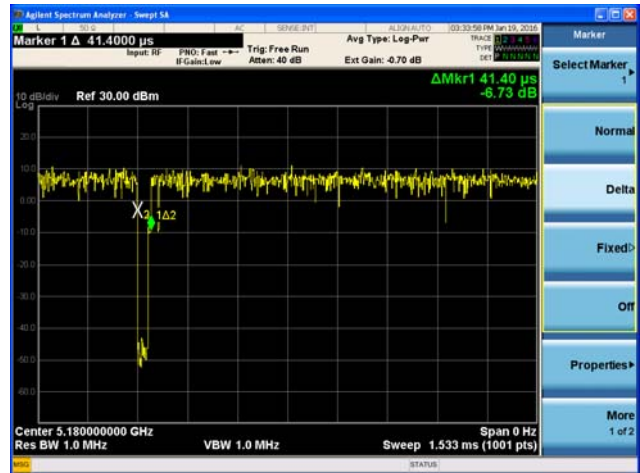
KDB 789033 Zero-Span Spectrum Analyzer Method.

Measurement Data:

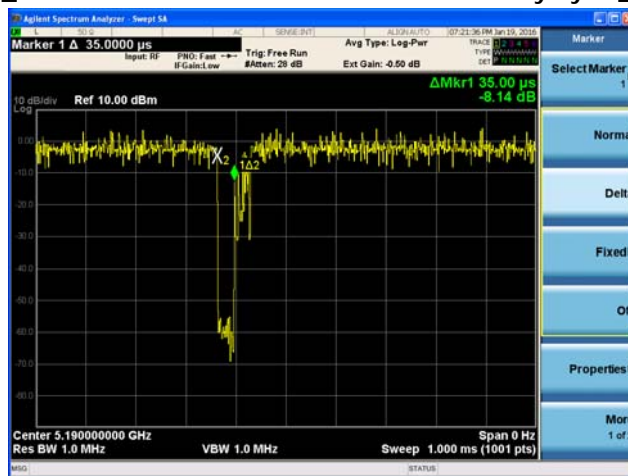
	ON Time (ms)	Period (ms)	TX OFF (ms)	Duty Cycle (linear)	Duty Cycle (%)
802.11a	1.492	1.533	0.041	0.973	97.3
802.11n_HT20	1.492	1.533	0.041	0.973	97.3
802.11n_HT40	0.965	1.000	0.035	0.965	96.5



Duty Cycle_802.11a



Duty Cycle_802.11n_HT20



Duty Cycle_802.11n_HT40



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2.1.2 6 dB Bandwidth

Procedure:

The bandwidth at 6 dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

Span = 1.5 time > RBW

VBW = 300 kHz

Sweep = auto

Trace = max hold

Detector function = peak



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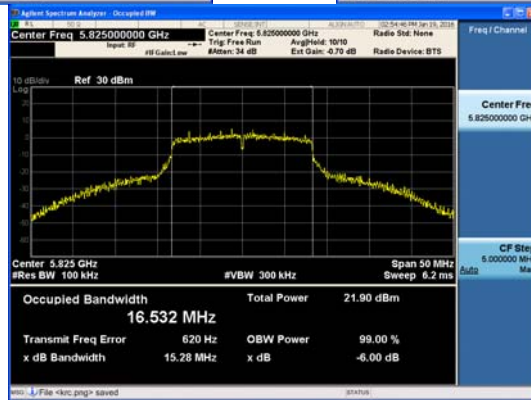
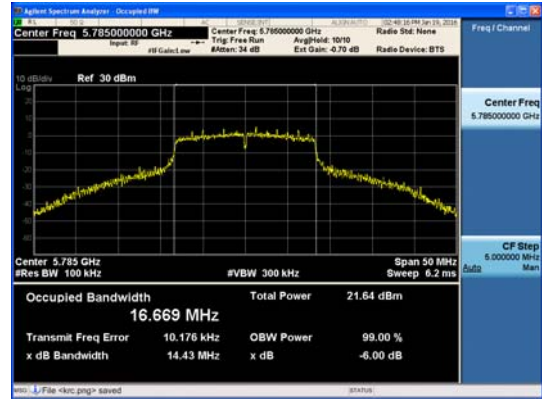
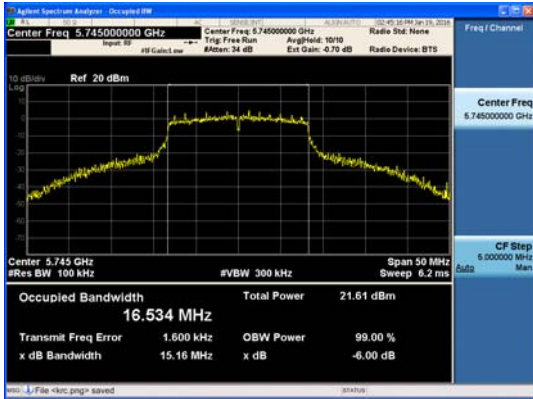
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Measurement Data:

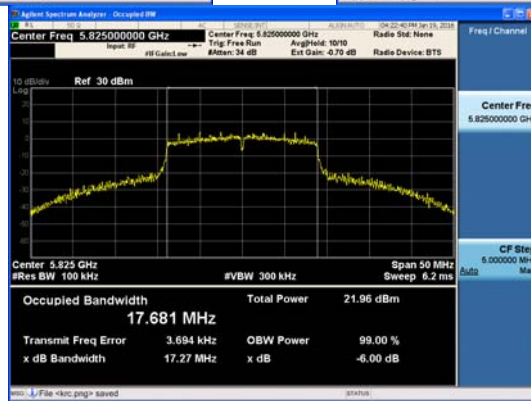
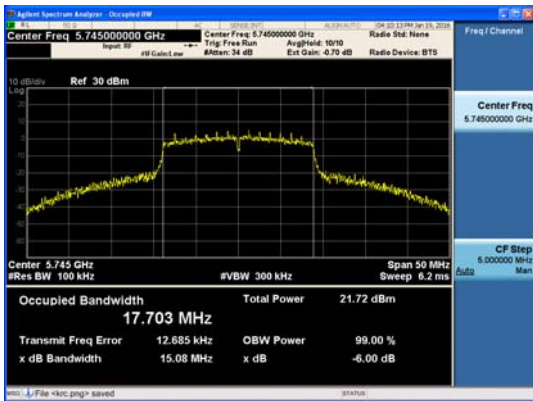
Ant : A1

	6 dB Bandwidth (MHz)	
Mode	802.11a	802.11n_HT20
Frequency		
5745 MHz	15.16	15.08
5785 MHz	14.43	15.10
5825 MHz	15.28	17.27
Measurement uncertainty	± 5 %	

	6 dB Bandwidth (MHz)	
Mode	802.11n_HT40	
Frequency		
5755 MHz	35.17	
5795 MHz	35.34	
Measurement uncertainty	± 5 %	



802.11a



802.11n_HT20



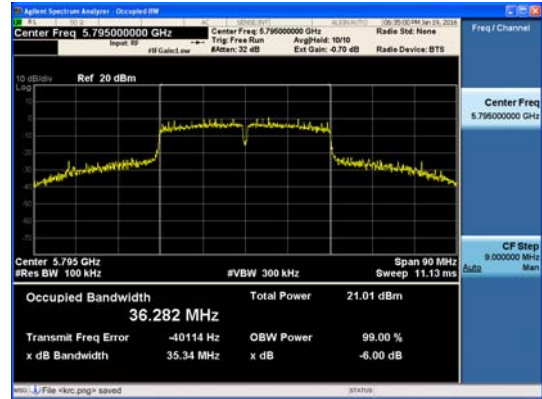
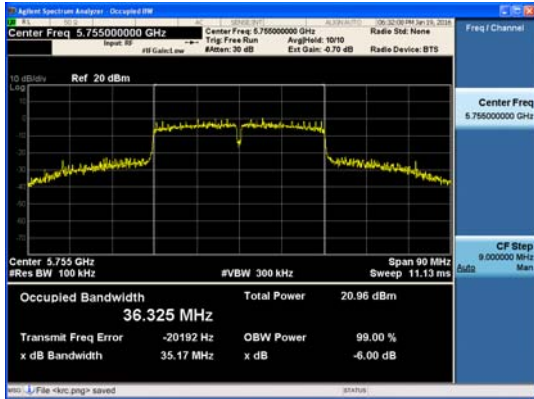
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802.11n_HT40



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2.1.3 26 dB Bandwidth and 99% Bandwidth

Procedure:

The bandwidth at 26 dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 26 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 26 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = approximately 1 % of the emission bandwidth Span = 1.5 time > RBW

VBW = VBW > RBW

Sweep = auto

Trace = max hold

Detector function = peak

Measurement Data:

Ant : A1

Mode	26 dB Bandwidth and 99% Bandwidth (MHz)			
	802.11a		802.11n_HT20	
Frequency	26 dB	99%	26 dB	99%
5180 MHz	23.74	17.37	27.42	18.23
5200 MHz	24.90	17.38	26.18	18.14
5240 MHz	24.07	17.44	24.51	18.16
5260 MHz	23.83	17.33	25.57	18.16
5300 MHz	23.18	17.45	28.68	18.09
5320 MHz	27.56	17.80	27.61	18.21
5500 MHz	29.63	17.57	34.17	18.40
5600 MHz	35.53	17.65	34.38	18.47
5700 MHz	33.31	18.20	33.88	18.65
5745 MHz	32.36	17.38	30.53	18.30
5785 MHz	32.08	17.59	32.46	18.36
5825 MHz	28.11	17.40	28.57	18.17
Measurement uncertainty	± 5 %			



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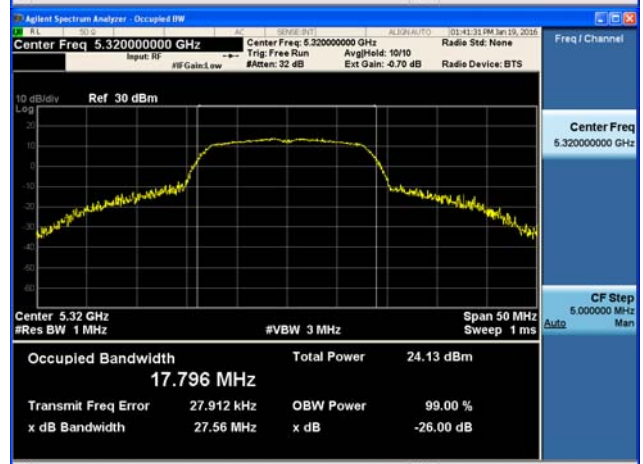
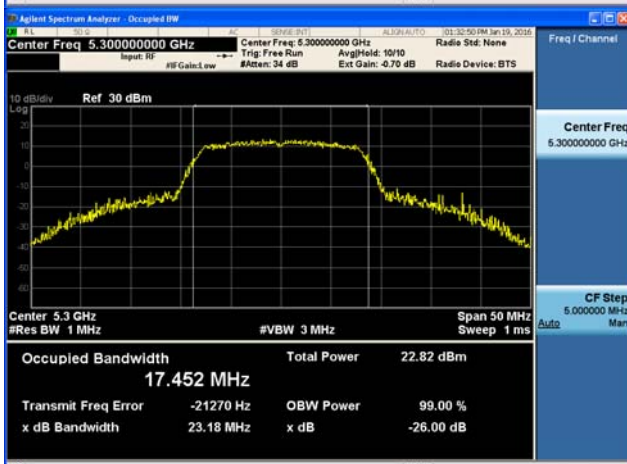
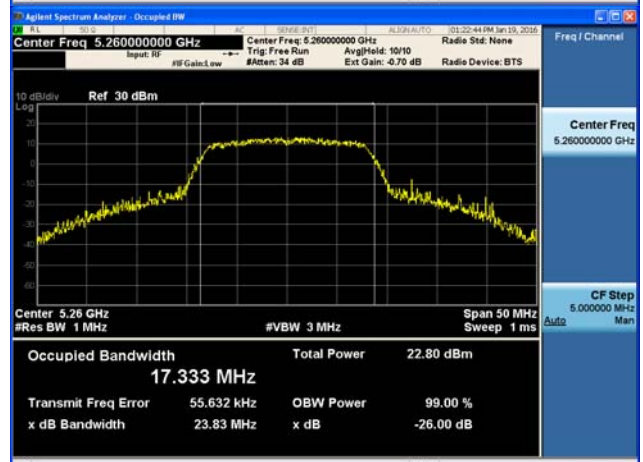
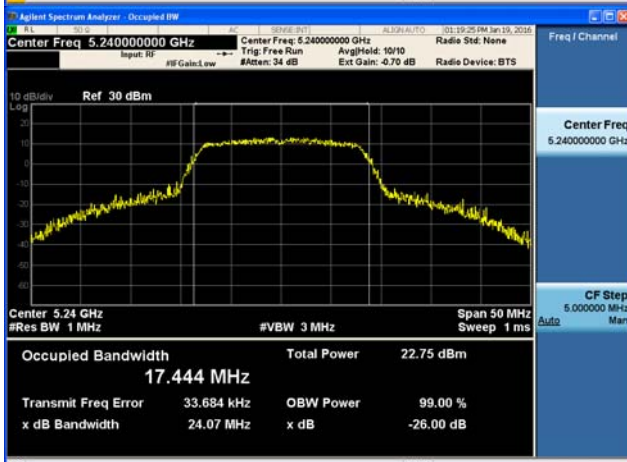
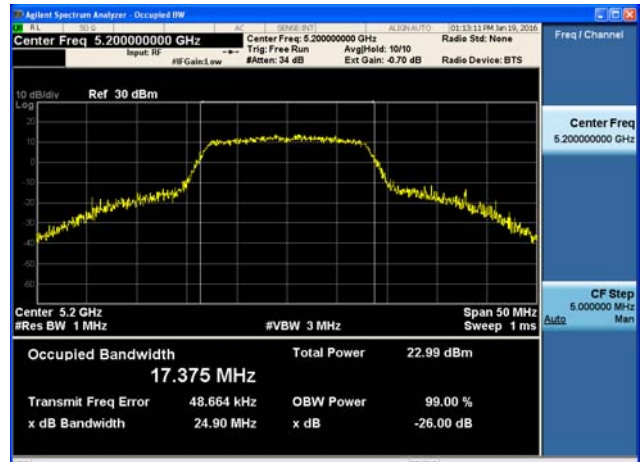
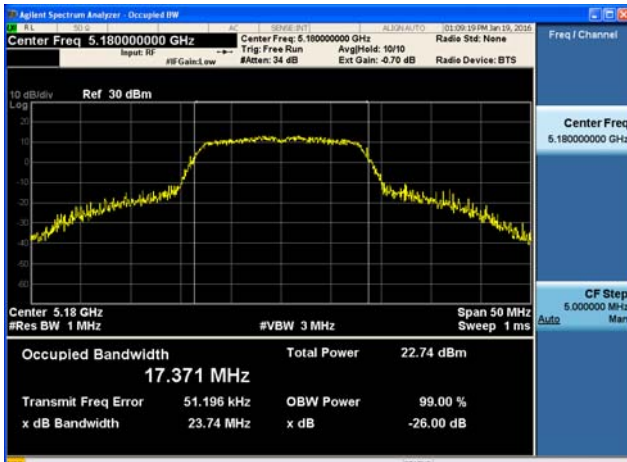
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	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11n_HT40	
Frequency	26 dB	99 %
5190 MHz	61.71	36.32
5230 MHz	66.44	36.49
5270 MHz	61.92	36.36
5310 MHz	64.12	36.38
5510 MHz	67.54	36.63
5590 MHz	68.88	36.87
5670 MHz	78.43	37.48
5755 MHz	78.34	36.70
5795 MHz	70.34	36.69
Measurement uncertainty	± 5 %	

Minimum Standard:

6 dB Bandwidth > 500kHz

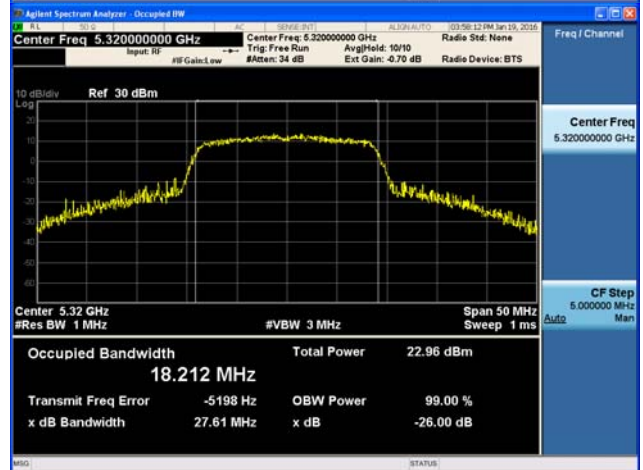
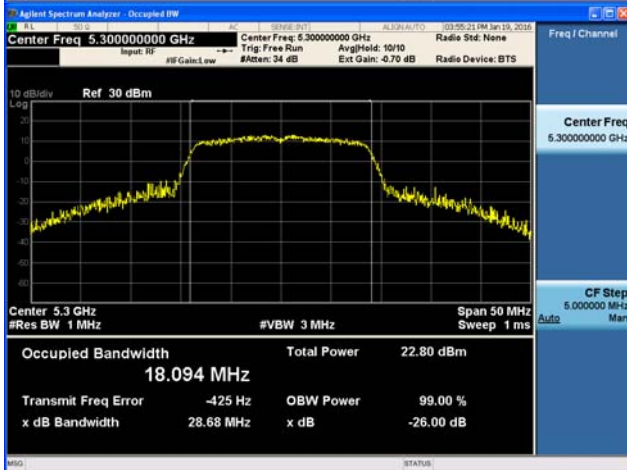
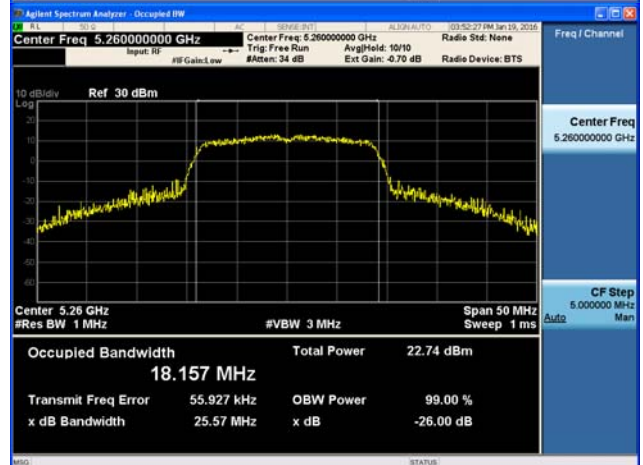
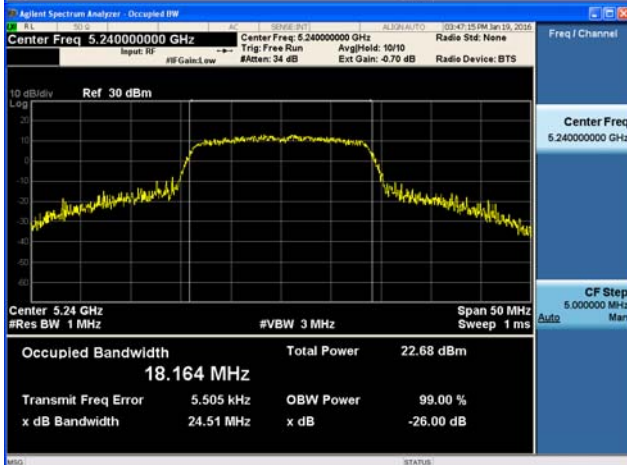
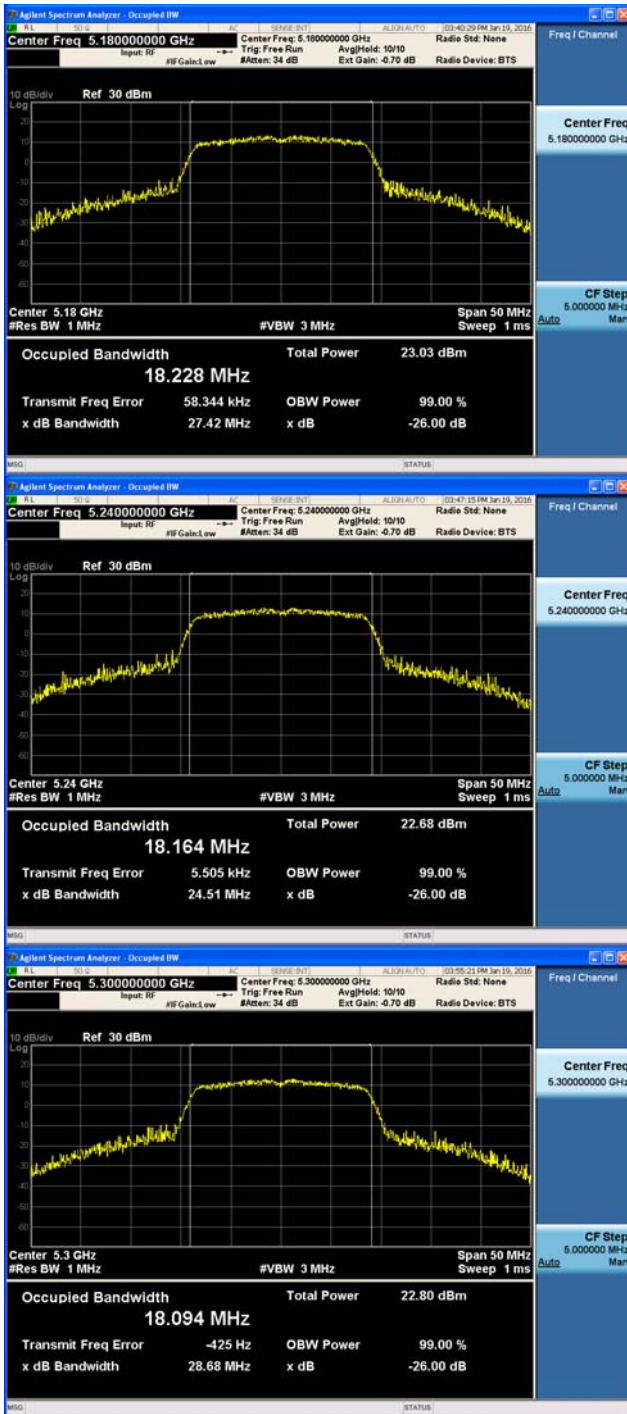
See next pages for actual measured spectrum plots.



802.11a (1)



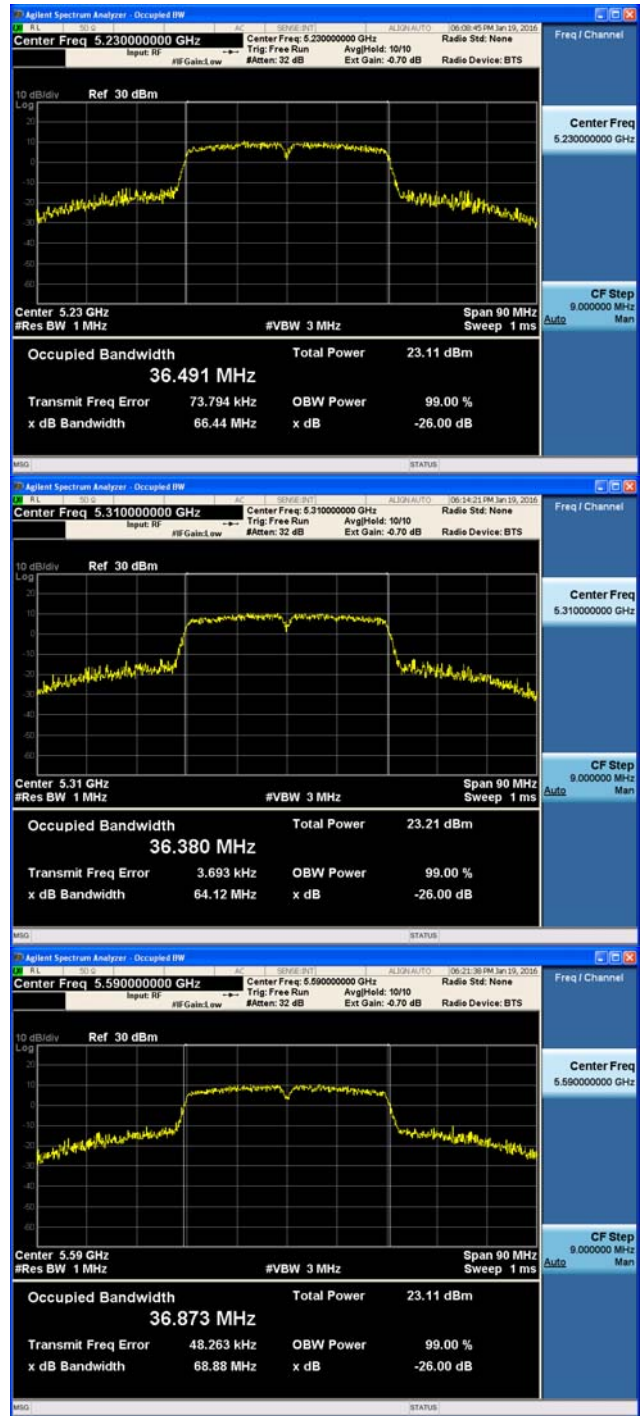
802.11a (2)



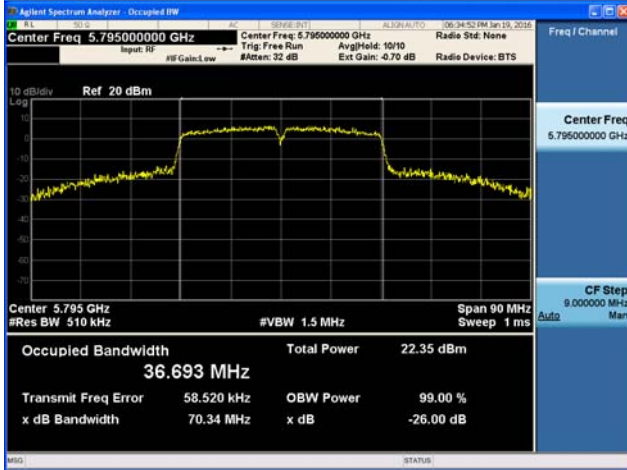
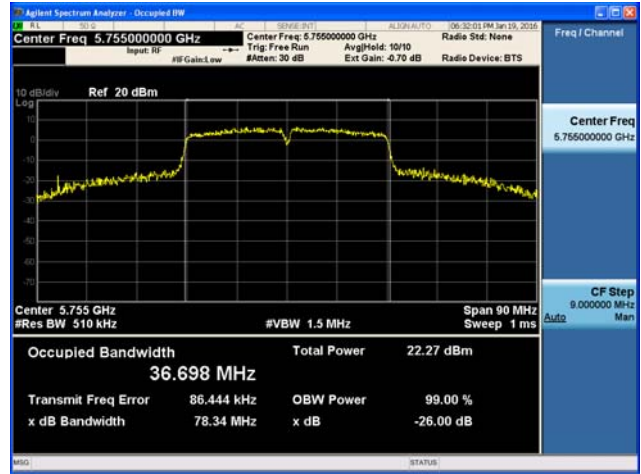
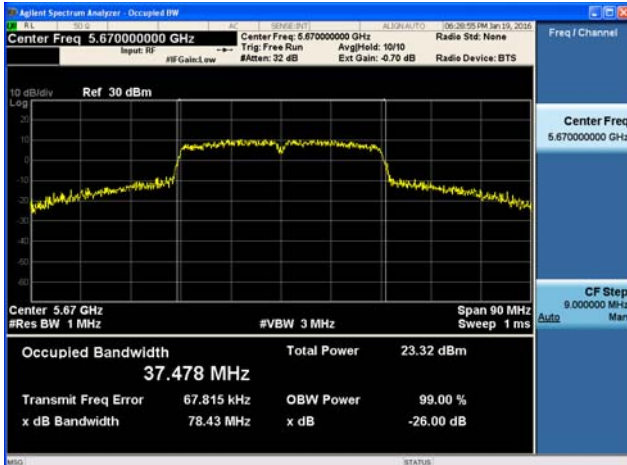
802.11n_HT20 (1)



802.11n_HT20 (2)



802.11n_HT40 (1)



802.11n_HT40 (2)

2.1.4 OUTPUT POWER

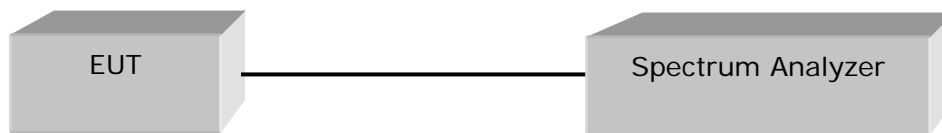
Test Location

RF Test Room

Test Procedures

Maximum Conducted Output Power(KDB 789033, Method SA-1)

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1 MHz

VBW = 3 MHz (3 x RBW)

Trace = average at least 100

Sweep = auto

Detector function = RMS

Limit

Band	Mode	Limit (dBm)
UNII 1	802.11a/n	24
UNII 2A	802.11a/n	24
UNII 2C	802.11a/n	24
UNII 3	802.11a/n	30



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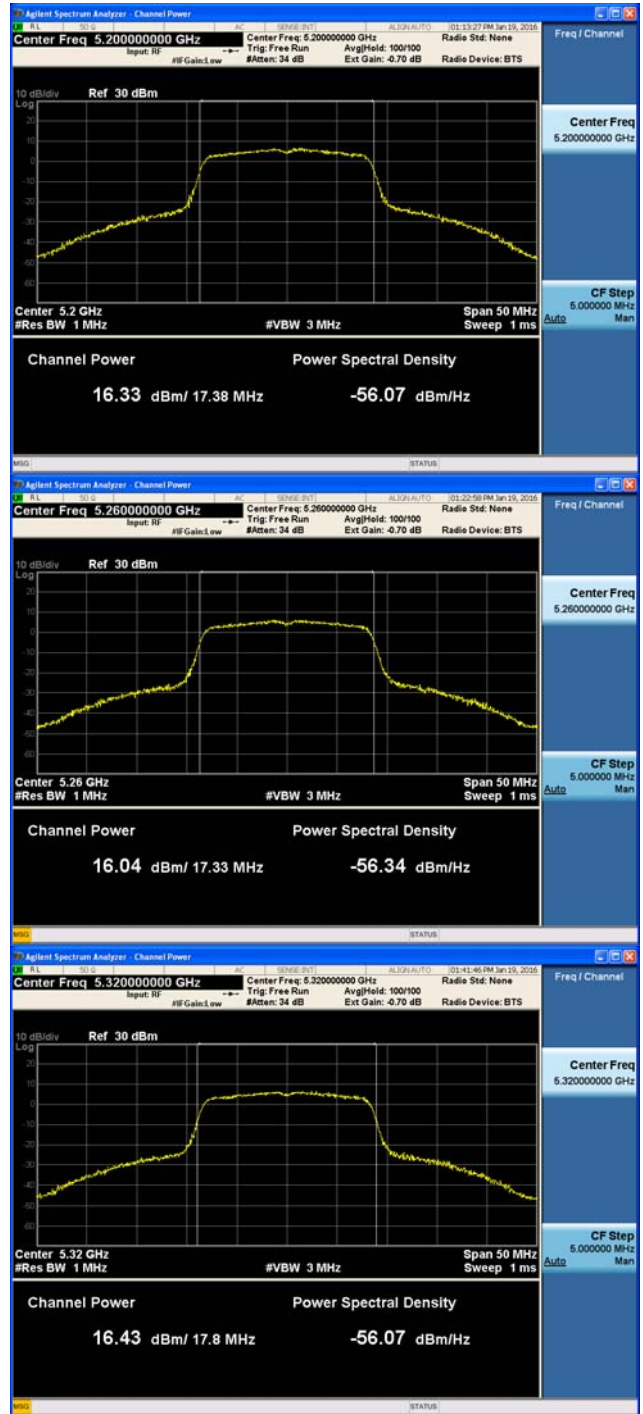
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Test Results

Mode	Measured Output Power (dBm)	
	802.11a	802.11n_HT20
Frequency		
5180 MHz	15.99	16.29
5200 MHz	16.33	16.17
5240 MHz	16.25	16.12
5260 MHz	16.04	15.98
5300 MHz	16.33	16.18
5320 MHz	16.43	16.22
5500 MHz	16.46	16.29
5600 MHz	16.44	15.83
5700 MHz	16.49	16.10
5745 MHz	15.80	15.83
5785 MHz	15.78	15.91
5825 MHz	16.10	16.03
Measurement uncertainty	± 3 dB	

Mode	Measured Output Power (dBm)	
	802.11n_HT40	
Frequency		
5190 MHz	16.53	
5230 MHz	16.20	
5270 MHz	16.16	
5310 MHz	16.25	
5510 MHz	16.51	
5590 MHz	16.19	
5670 MHz	16.48	
5755 MHz	15.83	
5795 MHz	16.12	
Measurement uncertainty	± 3 dB	



802.11a (1)



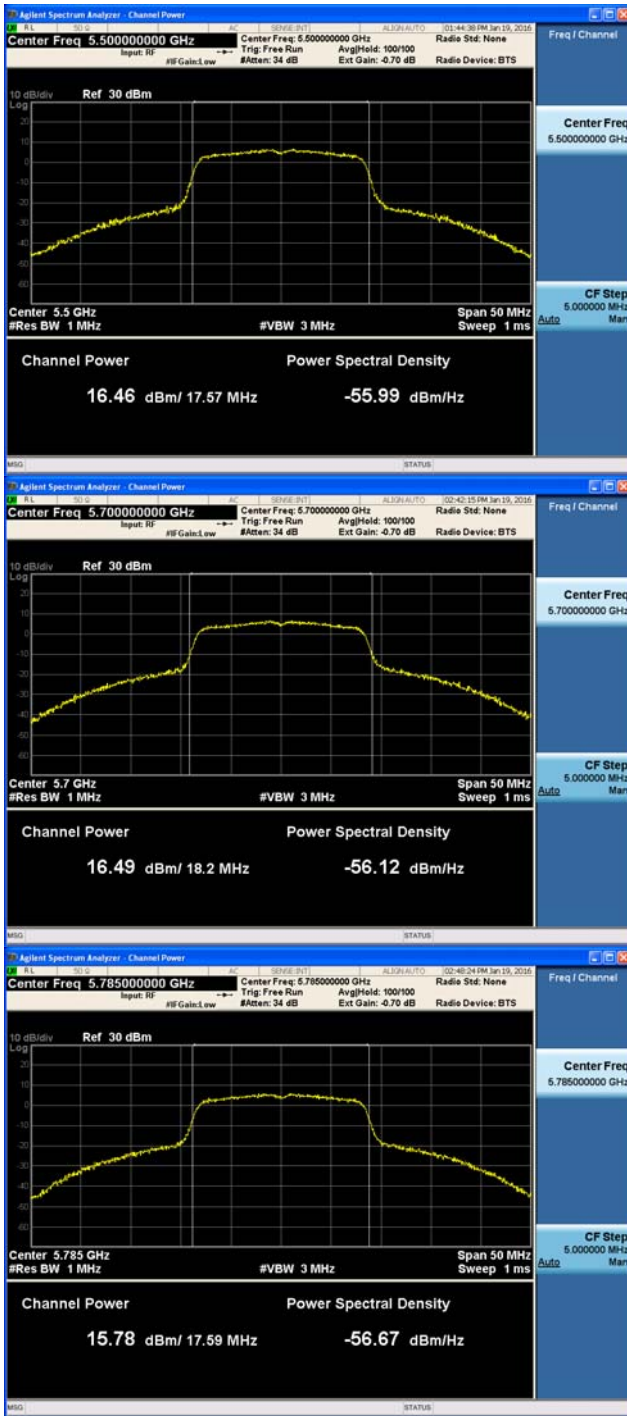
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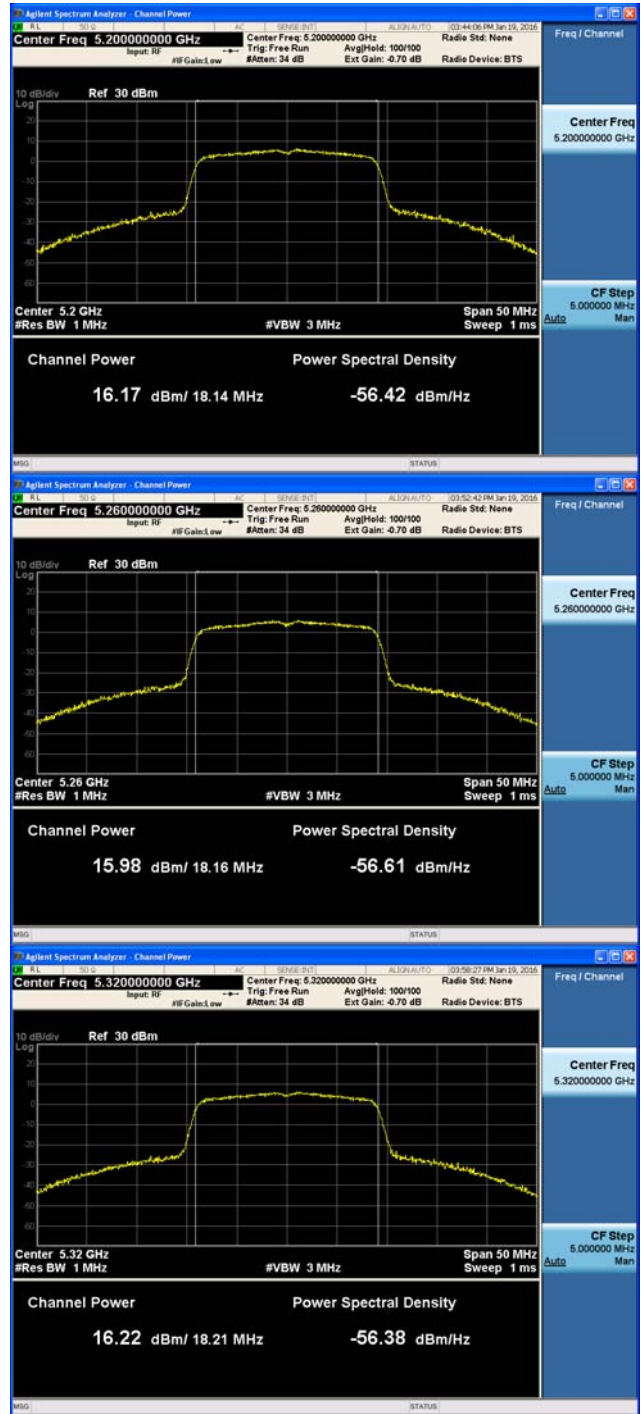
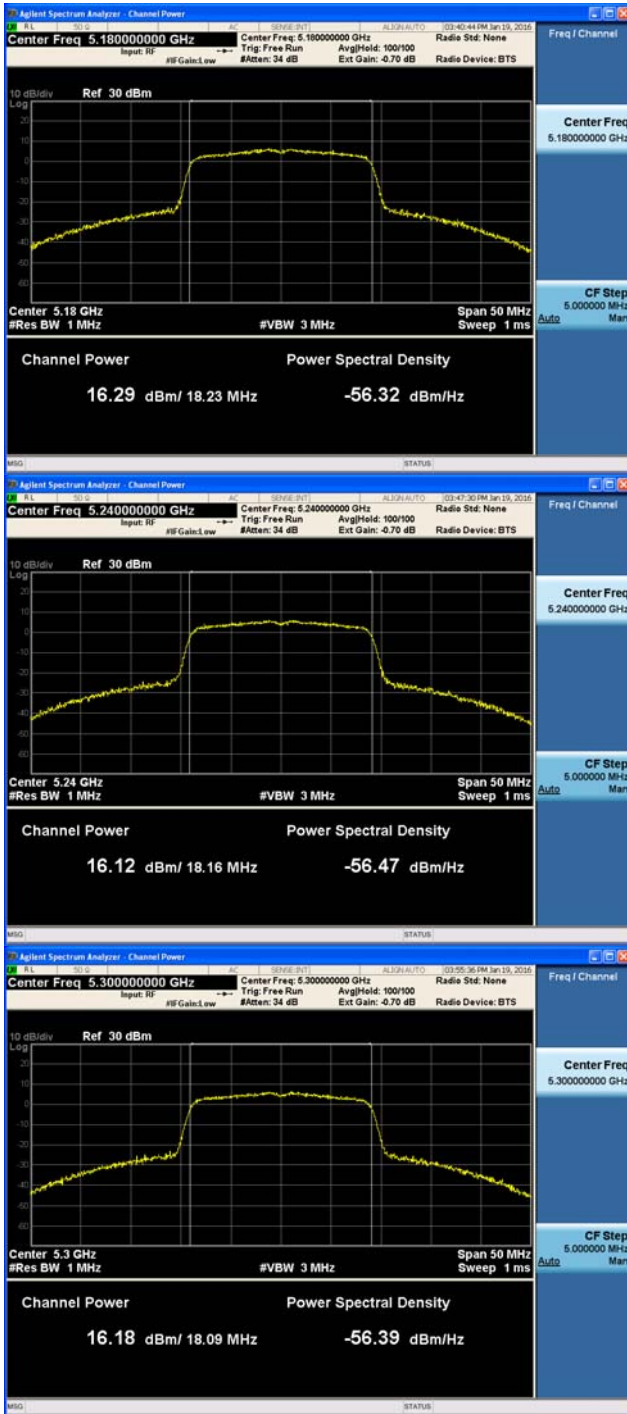
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea

Tel: +82-31-339-9970 Fax: +82-31-624-9501

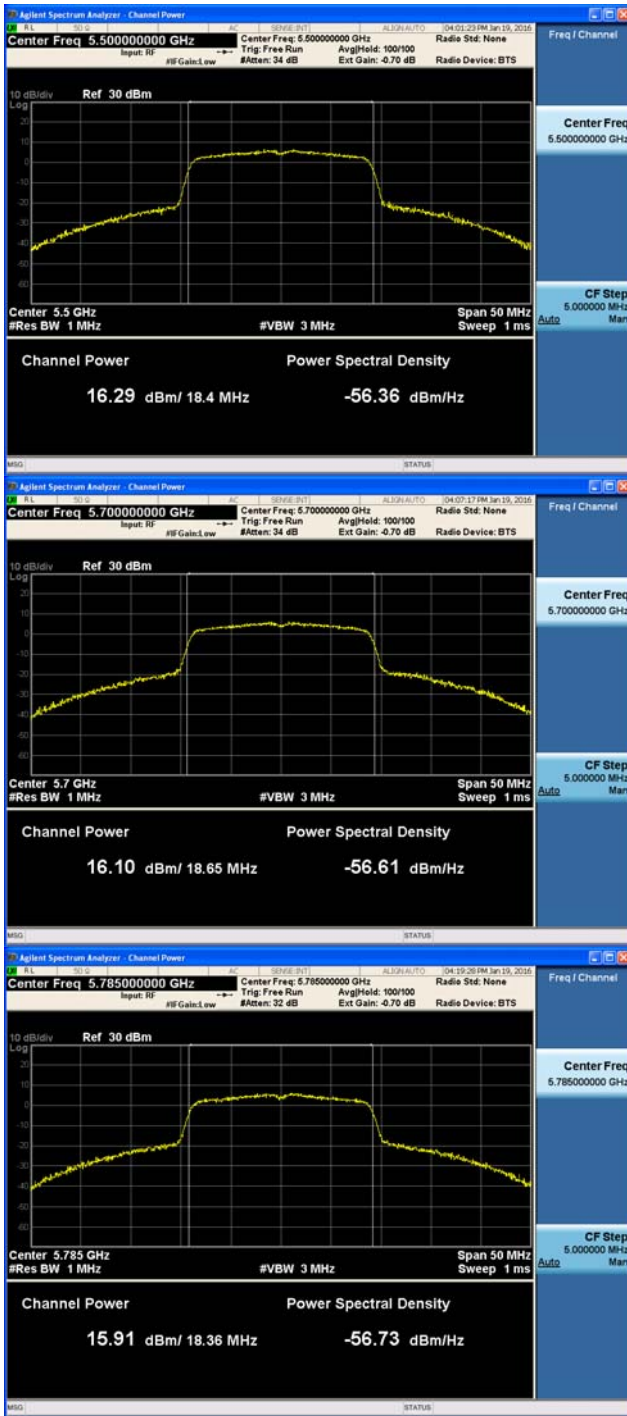
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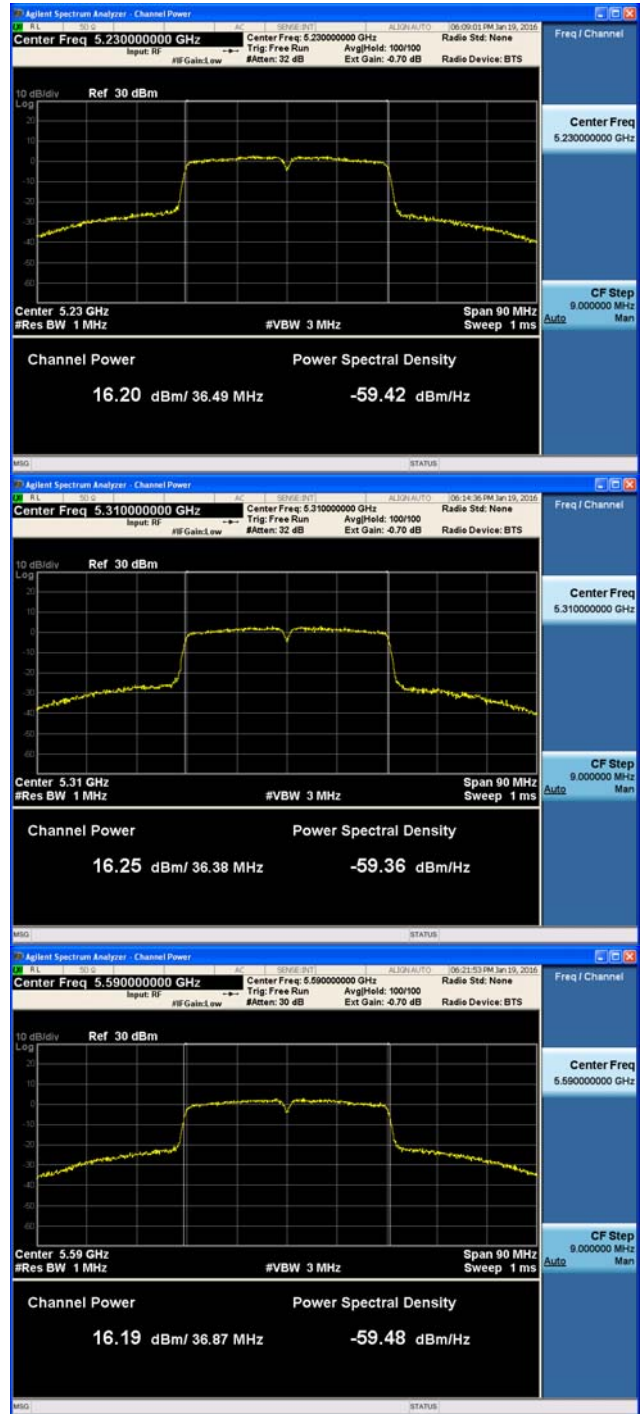
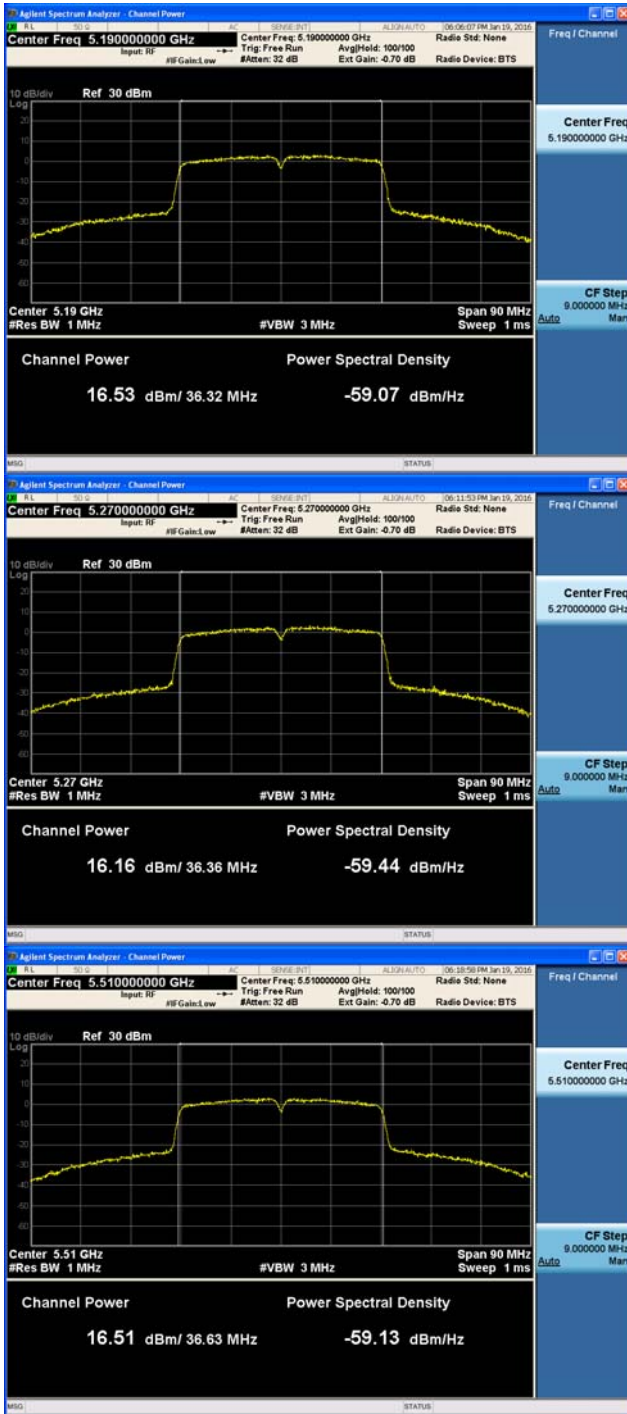
802.11a (2)



802.11n_HT20 (1)



802.11n_HT20 (2)

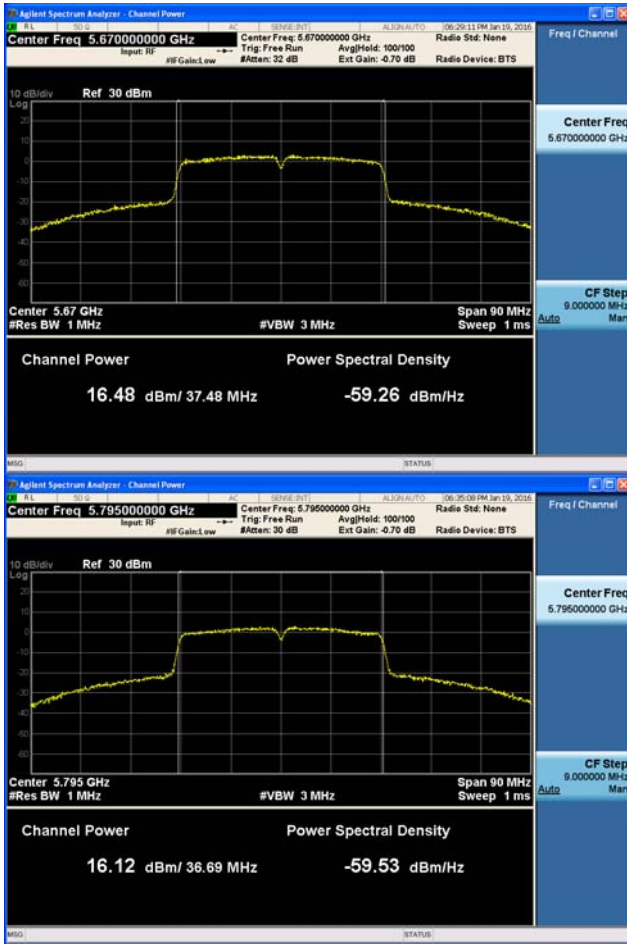


802.11n_HT40 (1)



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802.11n_HT40 (2)

2.1.5 Power Spectral Density

Procedure:

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 1 MHz, 500 KHz (UNII 3)

VBW = 3 MHz, 1.5 MHz (UNII 3)

Trace = average at least 100

Sweep = auto

Detector function = RMS

Limit

Band	Mode	Limit
UNII 1	802.11a/n	11 dBm/MHz
UNII 2A		
UNII 2C		
UNII 3		30 dBm/500KHz

Test Results

Mode	Measured Power Density (dBm/MHz)	
	802.11a	802.11n_HT20
Frequency		
5180 MHz	6.083	6.527
5200 MHz	6.198	6.220
5240 MHz	6.263	5.914
5260 MHz	6.159	6.108
5300 MHz	6.620	6.271
5320 MHz	6.367	6.207
5500 MHz	6.411	6.524
5600 MHz	7.057	5.917
5700 MHz	6.914	5.989
Measurement uncertainty	± 3 dB	



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	Measured Power Density (dBm/500KHz)	
5745 MHz	3.265	2.904
5785 MHz	3.182	2.831
5825 MHz	3.401	3.459
Measurement uncertainty	± 3 dB	

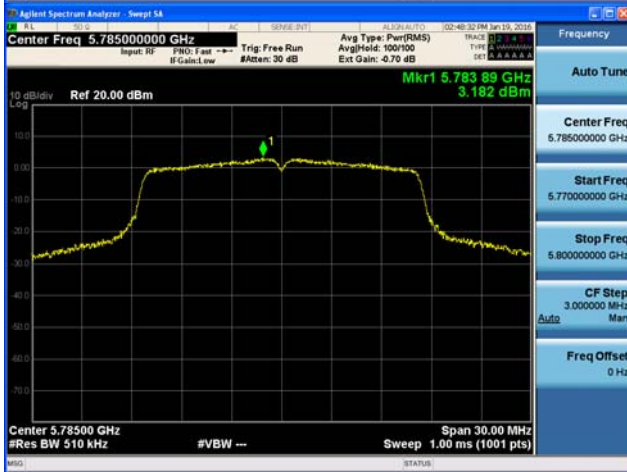
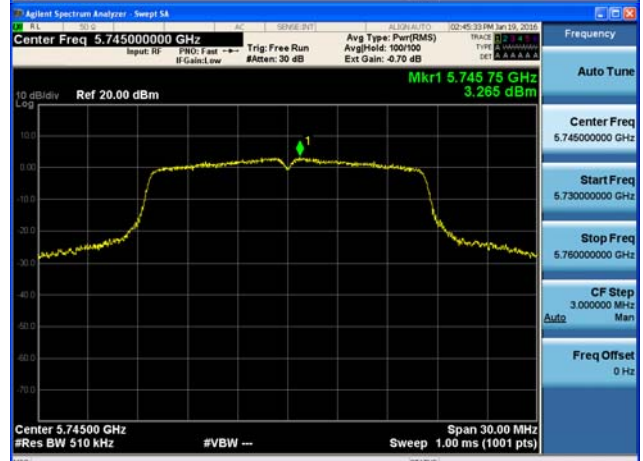
	Measured Power Density (dBm/MHz)	
Mode	802.11n_HT40	
Frequency		
5190 MHz	3.135	
5230 MHz	2.656	
5270 MHz	3.056	
5310 MHz	2.991	
5510 MHz	3.253	
5590 MHz	2.703	
5670 MHz	2.902	
Measurement uncertainty	± 3 dB	

	Measured Power Density (dBm/500KHz)	
5755 MHz	-0.536	
5795 MHz	-0.568	
Measurement uncertainty	± 3 dB	

See next pages for actual measured spectrum plots.



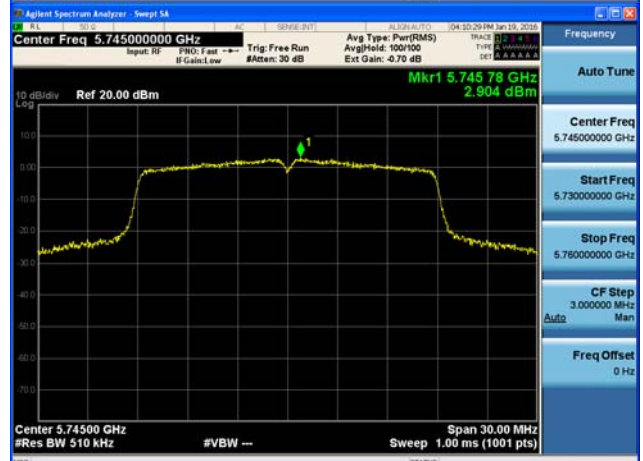
802.11a (1)



802.11a (2)



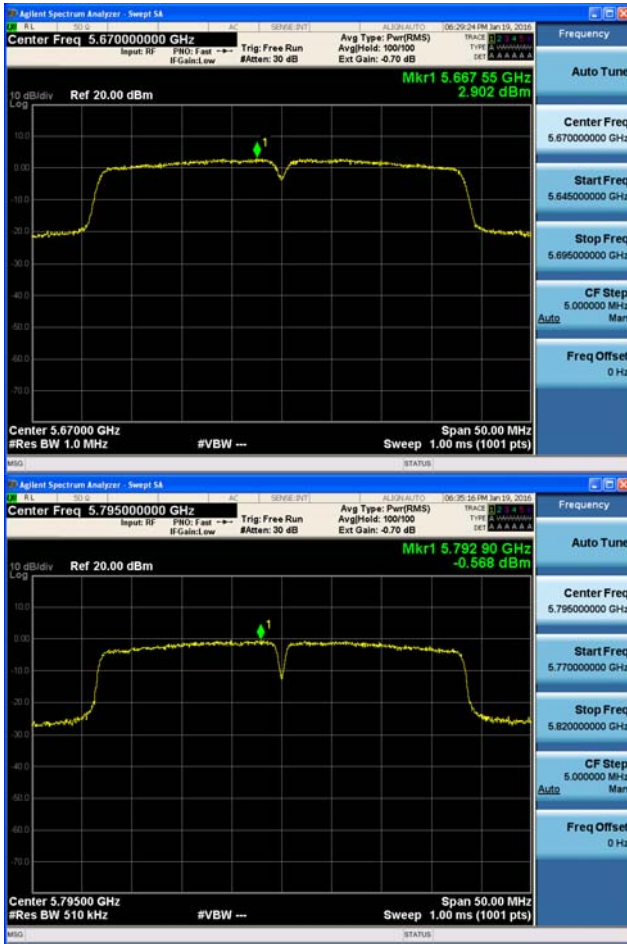
802.11n_HT20 (1)



802.11n_HT20 (2)



802.11n_HT40 (1)



802.11n_HT40 (2)



2.1.6 Frequency Stability

Procedure:

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -10°C and +45°C. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Temperature (°C)	-10	0	10
Frequency	Mesured Frequency Error (kHz)		
5180 MHz	34.143	26.389	8.679
5200 MHz	-0.610	30.468	28.122
5240 MHz	2.014	15.889	-34.146
5260 MHz	55.093	12.330	33.837
5300 MHz	38.758	-8.375	-22.156
5320 MHz	36.447	7.231	-14.262
5500 MHz	57.235	44.492	20.119
5600 MHz	51.247	-21.137	-38.743
5700 MHz	21.442	82.958	87.580
5745 MHz	30.741	34.619	47.289
5785 MHz	67.805	68.241	102.52
5825 MHz	12.338	26.572	47.533



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Temperature (°C)	20	30	40	45
Frequency	Measured Frequency Error (kHz)			
5180 MHz	37.728	49.052	15.428	30.106
5200 MHz	36.827	23.842	40.137	67.489
5240 MHz	-16.663	43.912	21.326	-20.481
5260 MHz	60.760	48.921	18.069	69.249
5300 MHz	-21.723	-10.912	-25.882	-1.118
5320 MHz	14.328	27.362	61.470	22.008
5500 MHz	39.309	21.818	20.359	3.554
5600 MHz	24.863	-6.156	25.845	-5.174
5700 MHz	68.073	91.519	119.10	48.642
5745 MHz	43.131	21.314	37.030	47.032
5785 MHz	95.894	102.36	74.440	49.567
5825 MHz	37.681	14.830	22.049	30.821

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.



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2.1.7 Conducted Spurious Emissions

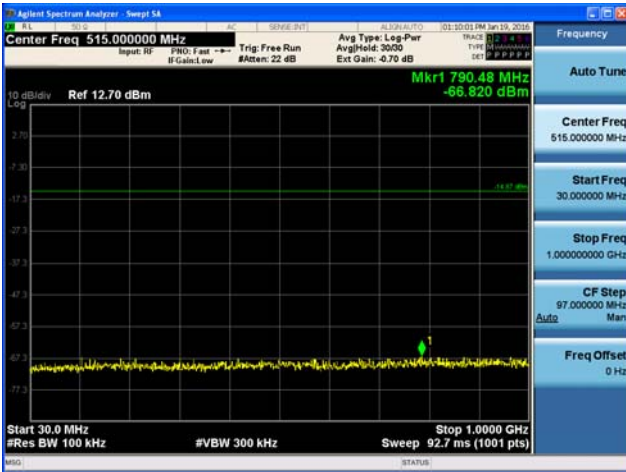
Procedure:

KDB 789033 Conducted Measurements.

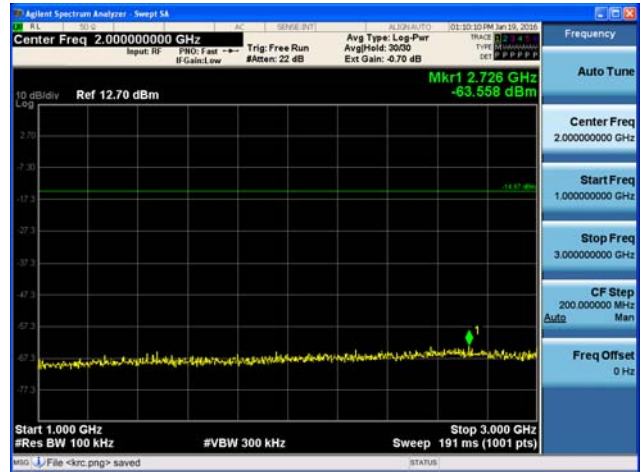
Measurement Data: Next Page



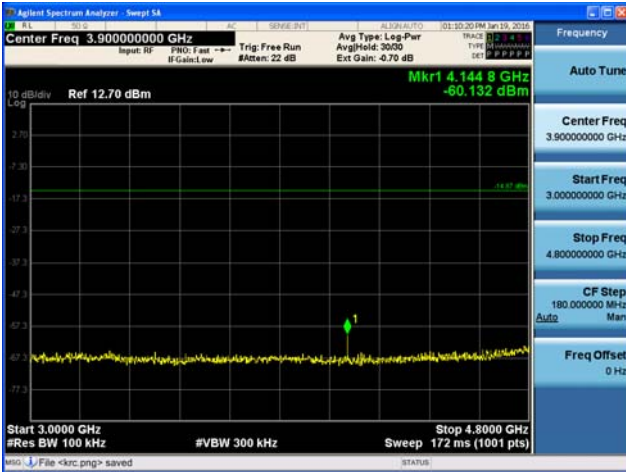
802.11a



518MHz 30MHz~1GHz



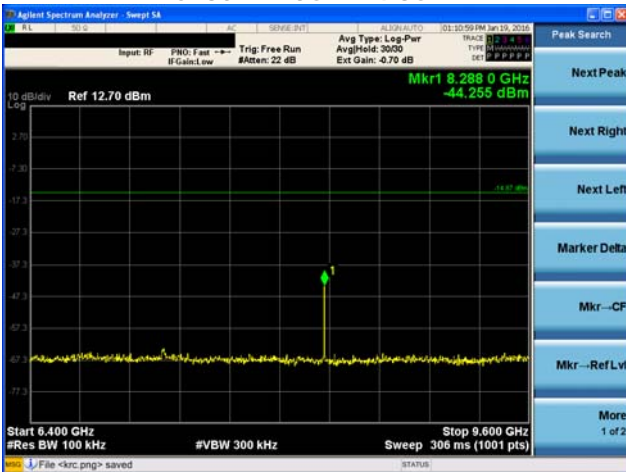
518MHz 1GHz~3GHz



518MHz 3GHz~4.8GHz



518MHz 4.8GHz~6.4GHz



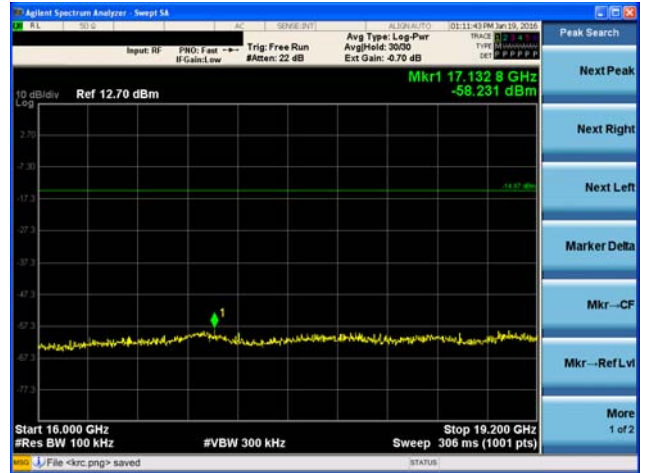
518MHz 6.4GHz~9.6GHz



518MHz 9.6GHz~12.8GHz



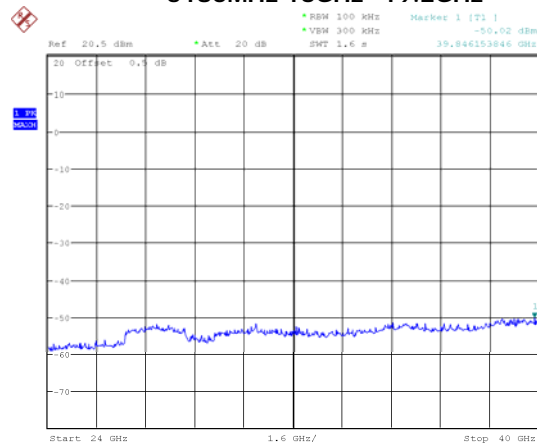
5180MHz 12.8GHz~16GHz



5180MHz 16GHz~19.2GHz

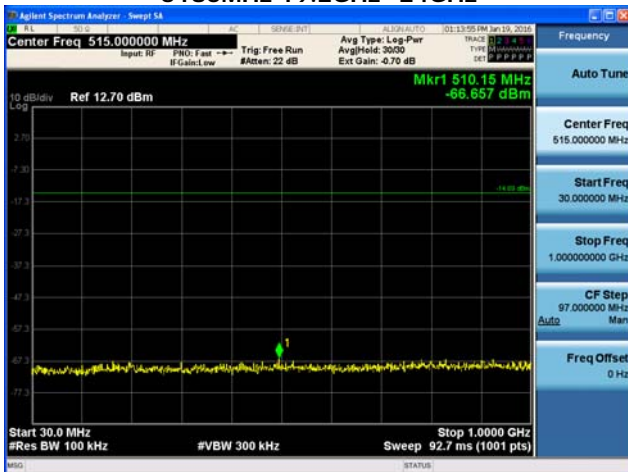


5180MHz 19.2GHz~24GHz

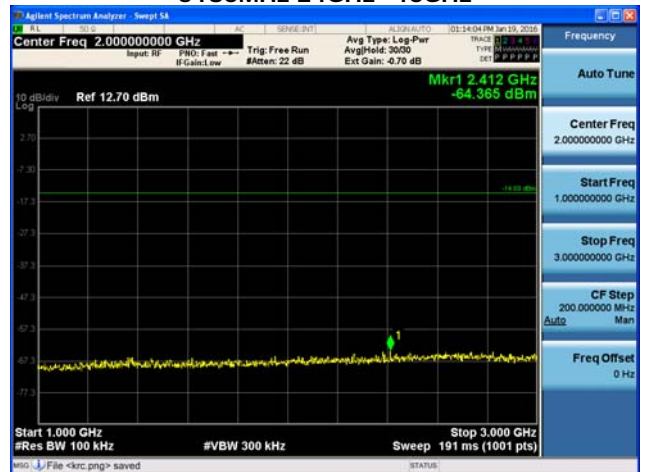


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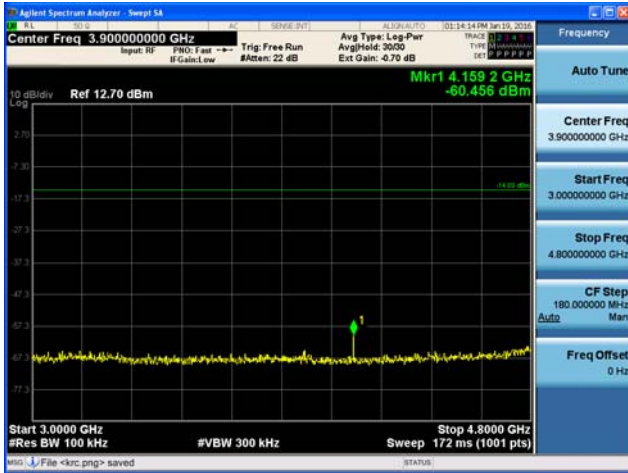
5180MHz 24GHz~40GHz



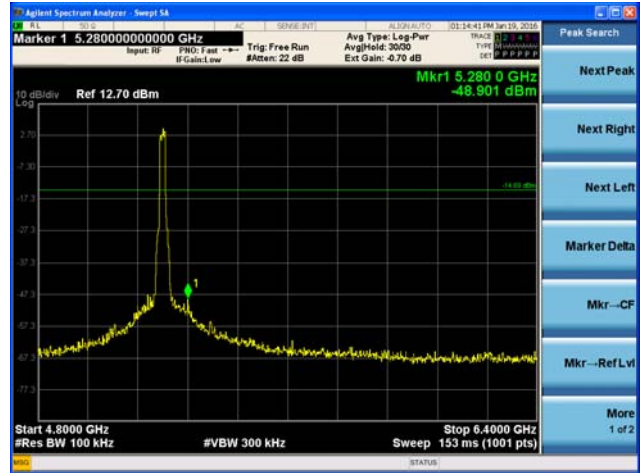
5200MHz 30MHz~1GHz



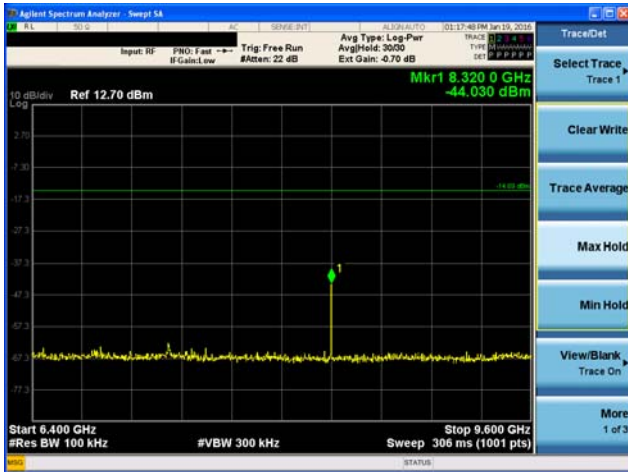
5200MHz 1GHz~3GHz



5200MHz 3GHz~4.8GHz



5200MHz 4.8GHz~6.4GHz



5200MHz 6.4GHz~9.6GHz



5200MHz 9.6GHz~12.8GHz



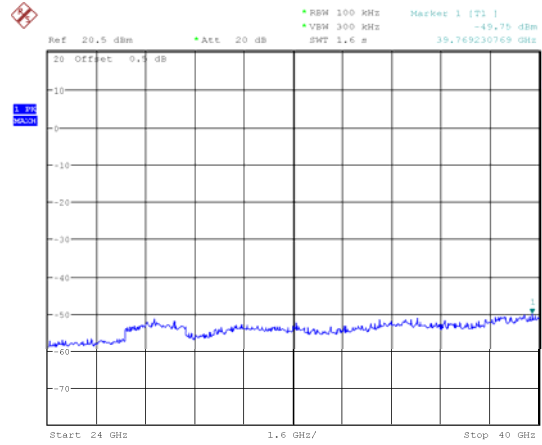
5200MHz 12.8GHz~16GHz



5200MHz 16GHz~19.2GHz

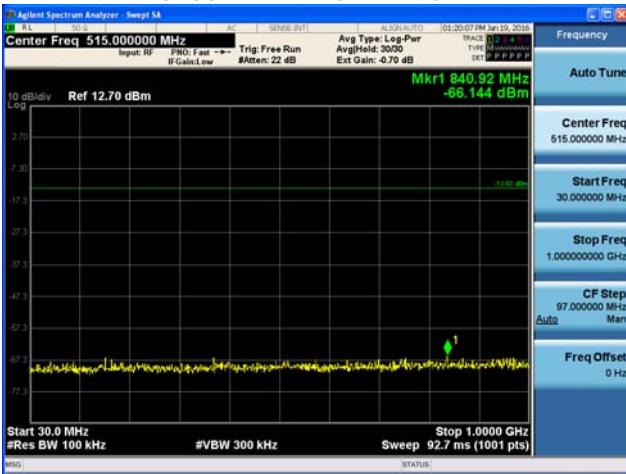


5200MHz 19.2GHz~24GHz

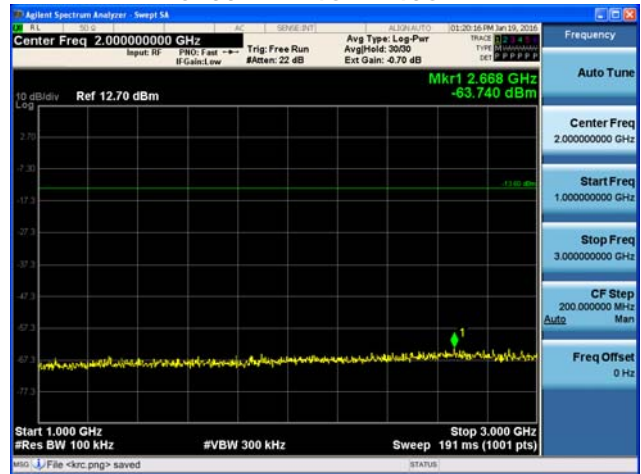


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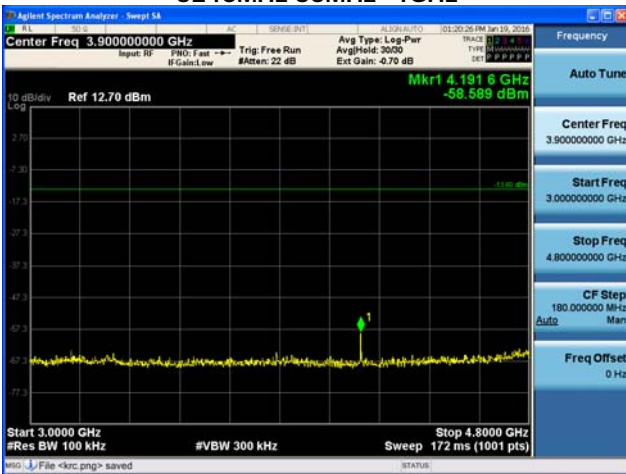
5200MHz 24GHz~40GHz



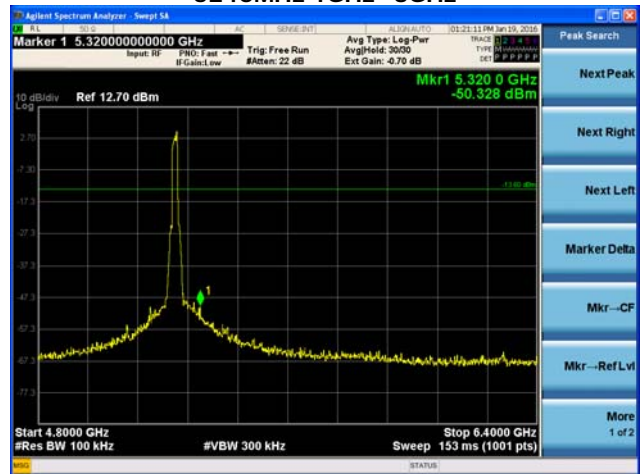
5240MHz 30MHz~1GHz



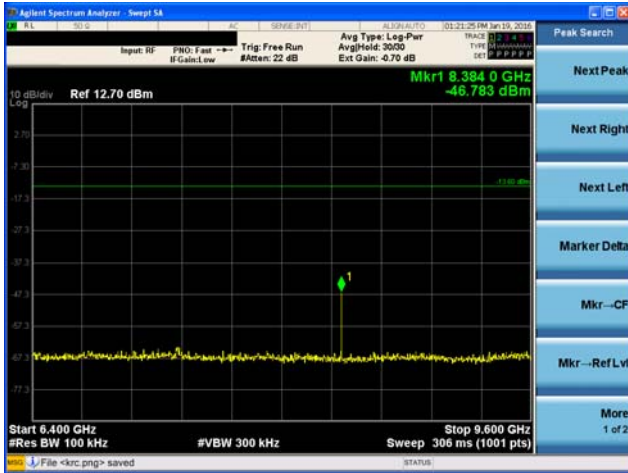
5240MHz 1GHz~3GHz



5240MHz 3GHz~4.8GHz



5240MHz 4.8GHz~6.4GHz



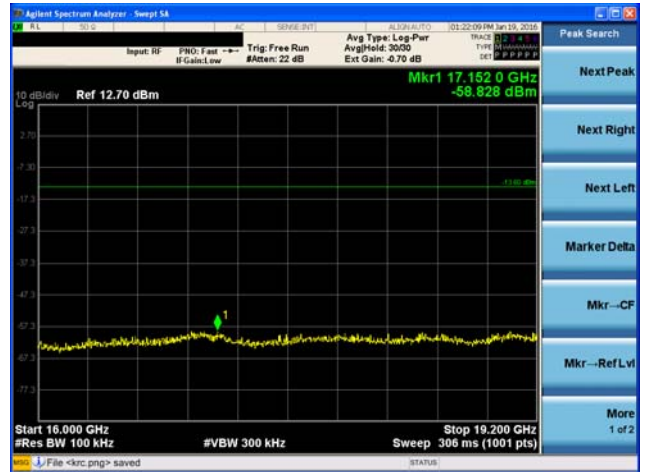
5240MHz 6.4GHz~9.6GHz



5240MHz 9.6GHz~12.8GHz



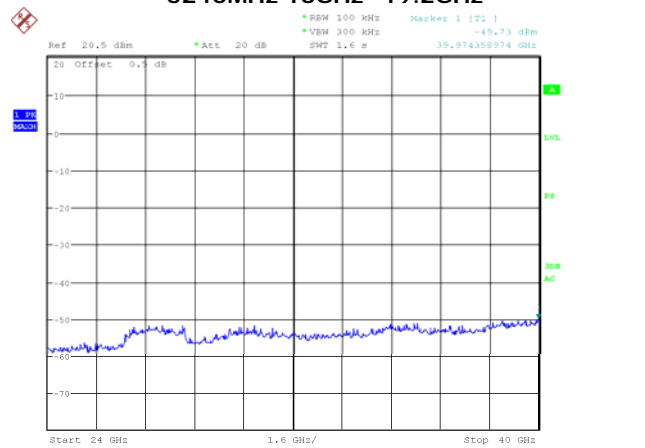
5240MHz 12.8GHz~16GHz



5240MHz 16GHz~19.2GHz

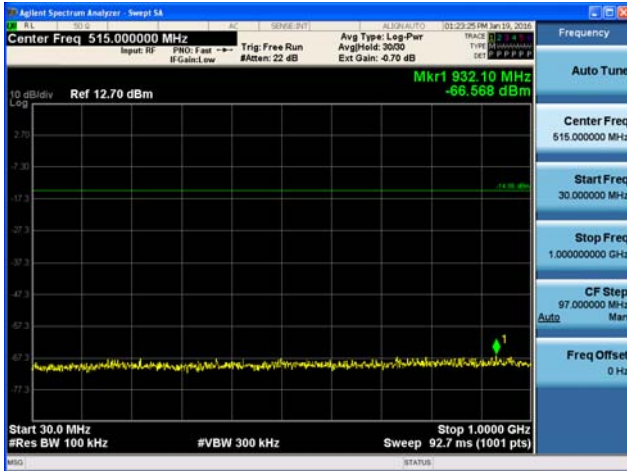


5240MHz 19.2GHz~24GHz

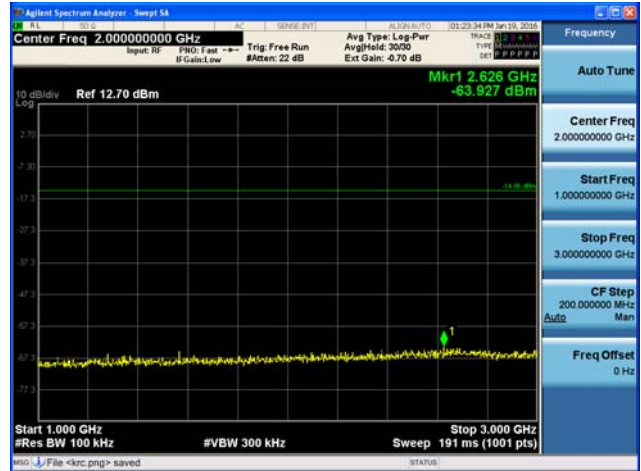


5240MHz 24GHz~40GHz

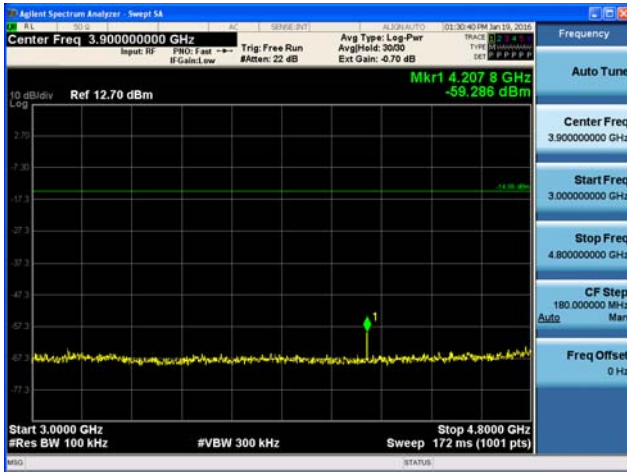
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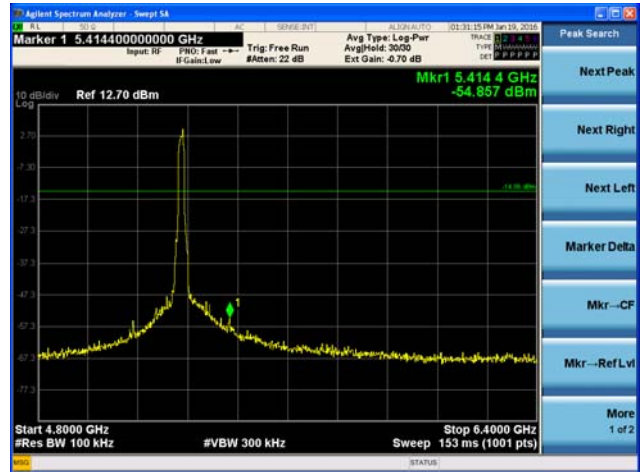
5260MHz 30MHz~1GHz



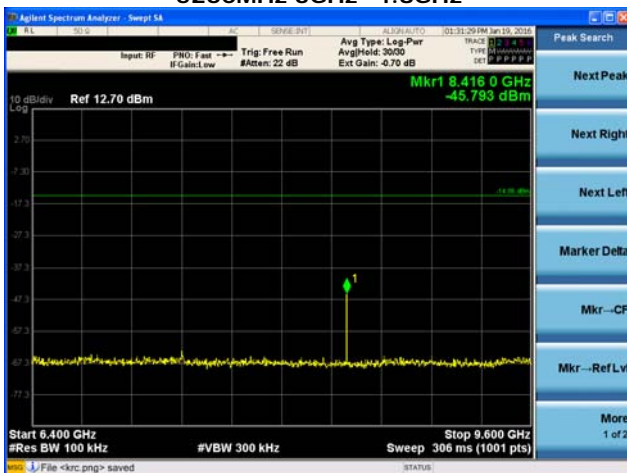
5260MHz 1GHz~3GHz



5260MHz 3GHz~4.8GHz



5260MHz 4.8GHz~6.4GHz



5260MHz 6.4GHz~9.6GHz



5260MHz 9.6GHz~12.8GHz



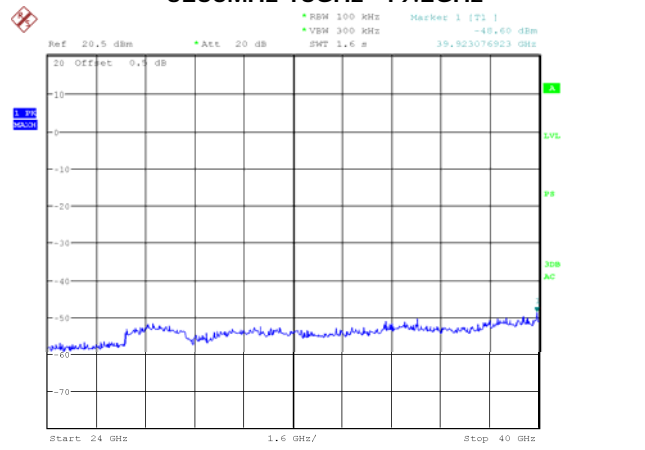
5260MHz 12.8GHz~16GHz



5260MHz 16GHz~19.2GHz



5260MHz 19.2GHz~24GHz



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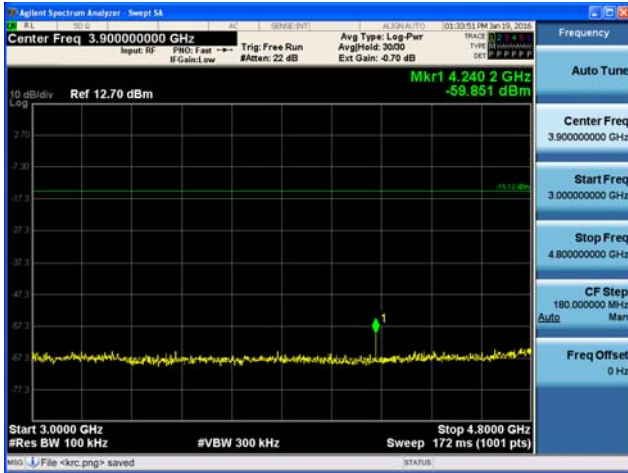
5260MHz 24GHz~40GHz



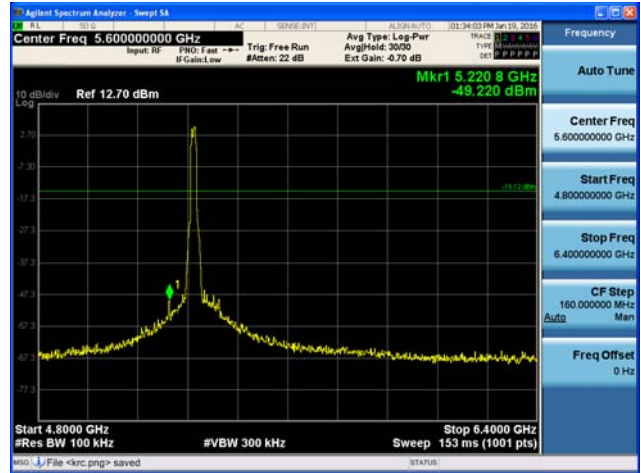
5300MHz 30MHz~1GHz



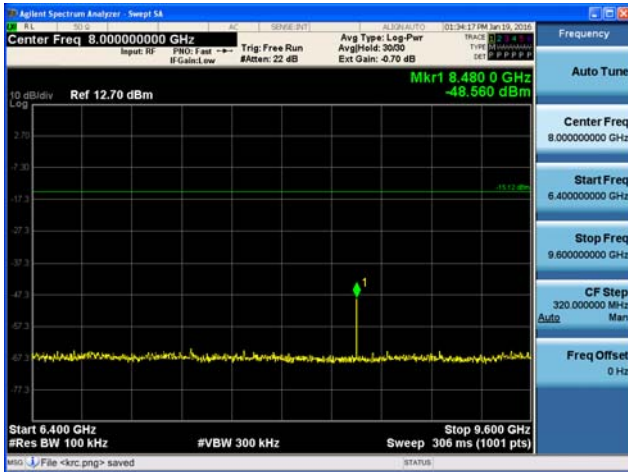
5300MHz 1GHz~3GHz



5300MHz 3GHz~4.8GHz



5300MHz 4.8GHz~6.4GHz



5300MHz 6.4GHz~9.6GHz



5300MHz 9.6GHz~12.8GHz



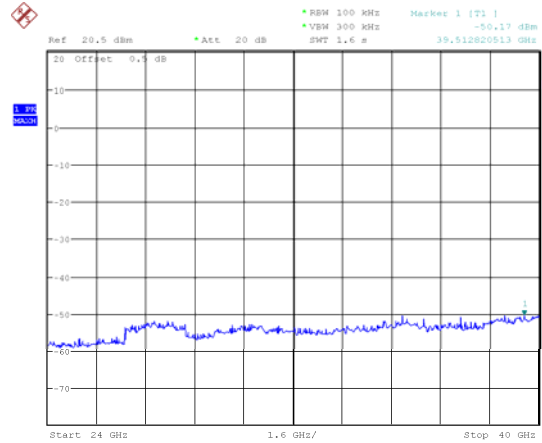
5300MHz 12.8GHz~16GHz



5300MHz 16GHz~19.2GHz



5300MHz 19.2GHz~24GHz



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5300MHz 24GHz~40GHz



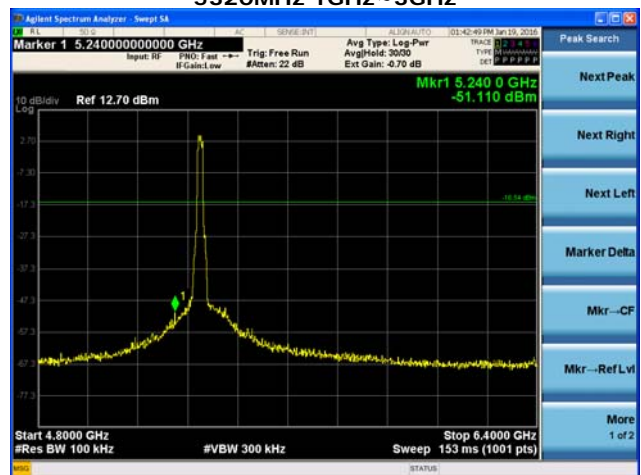
5320MHz 30MHz~1GHz



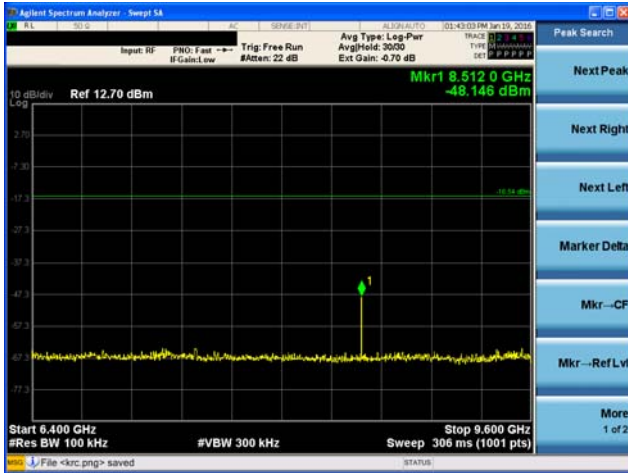
5320MHz 1GHz~3GHz



5320MHz 3GHz~4.8GHz



5320MHz 4.8GHz~6.4GHz



5320MHz 6.4GHz~9.6GHz



5320MHz 9.6GHz~12.8GHz



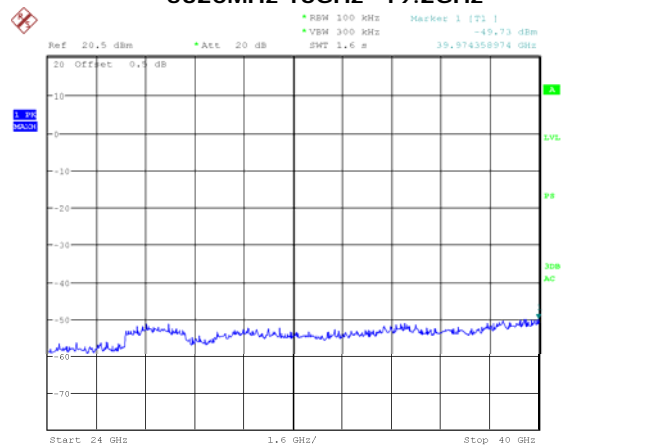
5320MHz 12.8GHz~16GHz



5320MHz 16GHz~19.2GHz



5320MHz 19.2GHz~24GHz



5320MHz 24GHz~40GHz

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