

TEST REPORT



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
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Report No.:
CTK-2017-01299
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1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, 16677
- Date of Receipt : 2017-06-10

2. Manufacturer

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, 16677

3. Use of Report : For FCC / ISED Certification

4. Test Sample / Model: WLAN Access Point / WEA524i



5. Date of Test : 2017-06-16 to 2017-07-07

6. Test Standard(method) used : FCC 47 CFR part 15 subpart E 15.407 ISED RSS-247

7. Testing Environment: Temp.: (27 ± 5) °C, Humidity: (45 ± 3) % R.H.

8. Test Results : Compliance

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Affirmation	Tested by  Ji-Hye Kim: (Signature)	Technical Manager  Won-Jae, Hwang: (Signature)
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2017-07-07

Republic of KOREA **CTK Co., Ltd.**



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REPORT REVISION HISTORY

Date	Revision	Page No
2017-07-07	Issued (CTK-2017-01299)	all

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1.0 General Product Description

FCC ID	A3LWEA524I						
Certification Number ISED	649E-WEA524I						
Equipment model name	WEA524i						
Serial number	Prototype						
EUT condition	Pre-production, not damaged						
Frequency Range	UNII 1 : 5 180 MHz – 5 240 MHz (20 MHz_BW) 5 190 MHz – 5 230 MHz (40 MHz_BW) 5 210 MHz (80 MHz_BW) UNII 3 : 5 745 MHz – 5 825 MHz (20 MHz_BW) 5 755 MHz – 5 795 MHz (40 MHz_BW) 5 775 MHz (80 MHz)						
RF output power :							
Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	ANT0 (SISO)	ANT1 (SISO)	ANT2 (SISO)	ANT3 (SISO)
				RF output power (dBm)			
UNII 1	802.11a	20	5 180 – 5 240	2.53	-	-	-
	802.11n	20	5 180 – 5 240	1.55	1.82	2.53	0.57
	802.11n	40	5 190 – 5 230	4.04	4.34	4.60	4.22
	802.11ac	20	5 180 – 5 240	2.37	1.69	2.58	1.04
	802.11ac	40	5 190 – 5 230	4.22	4.29	4.58	4.18
802.11ac	80	5 210	4.31	3.59	3.63	4.53	
UNII 3	802.11a	20	5 745 – 5 825	14.86	-	-	-
	802.11n	20	5 745 – 5 825	16.13	16.43	16.32	16.27
	802.11n	40	5 755 – 5 795	16.31	16.23	16.29	16.01
	802.11ac	20	5 745 – 5 825	16.75	16.44	16.39	16.15
	802.11ac	40	5 755 – 5 795	16.52	16.45	16.28	15.86
	802.11ac	80	5 775	13.52	9.2	14.37	9.55
Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	ANT0 + ANT1 (MIMO)	ANT0 + ANT1 + ANT2 (MIMO)	ANT0 + ANT1 + ANT2 + ANT3 (MIMO)	
				RF output power (dBm)			
UNII 1	802.11a	20	5 180 – 5 240	5.28	7.18	8.03	
	802.11n	20	5 180 – 5 240	4.70	6.76	7.69	
	802.11n	40	5 190 – 5 230	7.20	9.10	10.33	
	802.11ac	20	5 180 – 5 240	5.05	7.00	7.98	
	802.11ac	40	5 190 – 5 230	7.27	9.14	10.34	
	802.11ac	80	5 210	6.98	8.63	10.06	
UNII 3	802.11a	20	5 745 – 5 825	19.70	21.40	22.54	
	802.11n	20	5 745 – 5 825	19.26	21.04	22.24	
	802.11n	40	5 755 – 5 795	19.28	21.05	22.23	
	802.11ac	20	5 745 – 5 825	19.57	21.28	22.42	
	802.11ac	40	5 755 – 5 795	19.50	21.19	22.31	
	802.11ac	80	5 775	14.89	17.65	18.27	
Transfer Rate	802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 600 Mbps 802.11ac : up to 1.7 Gbps						

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Type of Modulation	OFDM
Power Source	DC 48 V(Adaptor,PoE)
Duty Cycle	802.11a : 97.3 % 802.11n_HT20 : 99.0 % 802.11n_HT40 : 97.5 % 802.11ac_VHT20 : 99.1 % 802.11ac_VHT40 : 97.9 % 802.11ac_VHT80 : 95.7 %
Antenna Type	ANT 0, 1, 2 : Dipole Antenna ANT 3 : IFA Antenna
Antenna Gain	ANT 0, 1, 2 : 6.7 dBi ANT 3 : 4.2 dBi
Hardware Rev	PCS01B
Software Rev	0.9.8.T

2.0 Facility and Accreditations

2.1 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.

2.2 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	
CANADA	ISED	ISED EMI (3/10m test site)	8737A-2	
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	

2.3 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.



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3.0 Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
15.407(e)	6 dB Bandwidth	> 500 kHz	C	Conducted
15.407(a)	26 dB Bandwidth and 99% Bandwidth	NA	C	
15.407(a)(1)	Conducted Output Power	< 1 W (5 150 – 5 250 MHz) < 1 W (5 725 – 5 850 MHz)	C	
15.407(a)(1)	Power Spectral Density	< 17 dBm/MHz (5 150 – 5 250 MHz) < 30 dBm/500 KHz (5 725 – 5 850 MHz)	C	
15.407(g)	Frequency Stability	NA	C	
15.407 (b)	Undesirable emission	< -27 dBm/MHz EIRP (5 150 – 5 250 MHz) < -17 dBm/MHz EIRP (5 850 – 5 860 MHz) < -27 dBm/MHz EIRP outside (5 715 – 5 850 MHz)	C	Radiated
15.205, 15.407 (b)(5),(6)	Radiated Spurious Emission	15.209(a)	C	
15.207	AC Conducted Emissions	15.207(a)	C	Line Conducted
<i>Note 1:</i> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<i>Note 2:</i> The data in this test report are traceable to the national or international standards.				



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ISED Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
RSS-Gen 4.6.1	6 dB Bandwidth	> 500 kHz	C	Conducted
RSS-Gen 4.6.1	26 dB Bandwidth and 99% Bandwidth	NA	C	
RSS-247 6.2.1.1, 6.2.4.1	Conducted Output Power	< 200 mW EIRP (5 150 – 5 250 MHz) < 1 W (5 725 – 5 850 MHz)	C	
RSS-247 6.2.1.1, 6.2.4.1	Power Spectral Density	< 10 dBm/MHz EIRP (5 150 – 5 250 MHz) < 30 dBm/500KHz (5725 – 5 850 MHz)	C	
RSS-Gen 6.11	Frequency Stability	NA	C	
RSS-247 6.2.1.2, 6.2.4.2	Undesirable emission	< -27 dBm/MHz EIRP (5 150 – 5 250 MHz) < -17 dBm/MHz EIRP (5 850 – 5 860 MHz) < -27 dBm/MHz EIRP outside (5 715 – 5 850 MHz)	C	Radiated
RSS-Gen 6.13	Radiated Spurious Emission	RSS-247 5.5	C	
RSS-Gen 5	Receiver Spurious Emissions	RSS-Gen 7.1.2	C	
RSS-Gen 8.8	AC Conducted Emissions	RSS-Gen 8.8	C	Line Conducted
<i>Note 1:</i> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<i>Note 2:</i> 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, RSS-247 Issue 2

The tests were performed according to the method of measurements prescribed in
 KDB No.789033.

3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments. During at testing, system components were manipulated within the confines of typical usage to maximize each emission.

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

All modulation modes were tests. The results are only attached worst cases.

Test mode

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

Test Frequency

- 802.11a, 802.11n_HT20, 802.11ac_VHT20

	Lowest channel	Middle channel	Highest channel
UNII 1	5 180 MHz	5 200 MHz	5 240 MHz
UNII 3	5 745 MHz	5 785 MHz	5 825 MHz

- 802.11n_HT40, 802.11ac_VHT40

	Lowest channel	Middle channel	Highest channel
UNII 1	5 190 MHz	-	5 230 MHz
UNII 3	5 755 MHz	-	5 795 MHz

- 802.11ac_VHT80

	Lowest channel	Middle channel	Highest channel
UNII 1	5 210 MHz	-	-
UNII 3	5 775 MHz	-	-

3.3 Device Modifications

The following modifications were necessary for compliance:

Not applicable



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3.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	Samsung Electronics Co., Ltd.	NT-R540	ZW3B93AZ900402F
AC/DC Adapter	Tech-Power Electric Co., Ltd.	NT01	-
PoE switch	NETGEAR	GS110TP	3R724357004DA
PoE Adapter	Dongguan Leader Electronics Inc.	NU660-F480125-I1NN	-
AC/DC Adapter	SoluM Co., Ltd.	A2448N_NT	-

3.5 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	± 1.5 dB
Power Spectral Density	± 1.5 dB
Occupied Bandwidth	± 0.1 MHz
Unwanted Emission(conducted)	± 3.0 dB
Radiated Emissions ($f \leq 1$ GHz)	± 4.0 dB
Radiated Emissions ($f > 1$ GHz)	± 5.0 dB

3.6 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	TOYO EMI software EP5RE Ver. 5.1.0
Line Conducted Test	ESCI7, ESCI3 : EMC32 Ver. 8.50.0 ESR7 : EMC32 Ver. 8.53.0

4.0 Technical Characteristic Test

4.1 ON Time, Duty Cycle

Test Procedures

KDB 789033 Zero-Span Spectrum Analyzer Method.

Test Data:

	ON Time (ms)	Period (ms)	TX OFF (ms)	Duty Cycle (linear)	Duty Cycle (%)
802.11a	2.064	2.123	0.059	0.973	97.3
802.11n_HT20	5.002	5.053	0.051	0.990	99.0
802.11n_HT40	2.422	2.485	0.063	0.975	97.5
802.11ac_VHT20	5.021	5.069	0.048	0.991	99.1
802.11ac_VHT40	2.441	2.494	0.053	0.979	97.9
802.11ac_VHT80	1.147	1.201	0.054	0.957	95.7



Duty Cycle_802.11a



Duty Cycle_802.11n_HT20

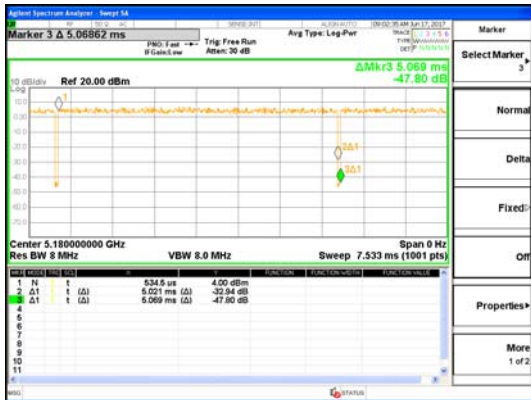


Duty Cycle_802.11n_HT40



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Duty Cycle_802.11ac_VHT20



Duty Cycle_802.11ac_VHT40



Duty Cycle_802.11ac_VHT80



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4.2 6dB Bandwidth

Test Procedures(ANSI C63.10-2013 6.9.2)

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW $\geq 3 \times$ RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Minimum Standard:

6 dB Bandwidth > 500 kHz



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Test Data:

Ant 0

	6 dB Bandwidth (MHz)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5 745 MHz	16.30	17.57	17.55
5 785 MHz	16.34	17.54	16.85
5 825 MHz	16.34	17.54	17.57

	6 dB Bandwidth (MHz)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5 755 MHz	35.14	35.17
5 795 MHz	35.30	35.13

	6 dB Bandwidth (MHz)
Mode	802.11ac_VHT80
Frequency	
5 775 MHz	76.39

Ant 1

	6 dB Bandwidth (MHz)	
Mode	802.11n_HT20	802.11ac_VHT20
Frequency		
5 745 MHz	17.56	17.58
5 785 MHz	17.58	17.57
5 825 MHz	17.55	17.56



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6 dB Bandwidth (MHz)		
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5 755 MHz	36.06	35.66
5 795 MHz	35.88	34.99

6 dB Bandwidth (MHz)	
Mode	802.11ac_VHT80
Frequency	
5 775 MHz	76.39

Ant 2

6 dB Bandwidth (MHz)		
Mode	802.11n_HT20	802.11ac_VHT20
Frequency		
5 745 MHz	17.55	17.59
5 785 MHz	17.57	17.26
5 825 MHz	17.54	17.60

6 dB Bandwidth (MHz)		
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5 755 MHz	35.10	35.36
5 795 MHz	34.12	35.85

6 dB Bandwidth (MHz)	
Mode	802.11ac_VHT80
Frequency	
5 775 MHz	76.38



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6 dB Bandwidth (MHz)		
Mode	802.11n_HT20	802.11ac_VHT20
Frequency		
5 745 MHz	17.56	17.64
5 785 MHz	17.54	17.53
5 825 MHz	17.59	17.54

6 dB Bandwidth (MHz)		
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5 755 MHz	35.43	34.19
5 795 MHz	35.41	35.13

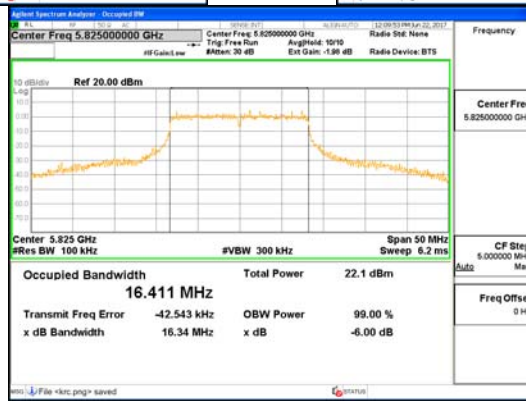
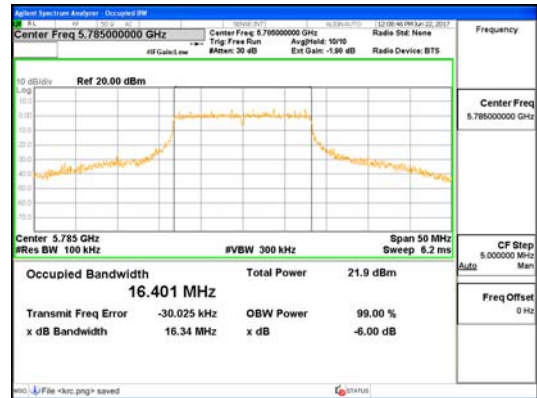
6 dB Bandwidth (MHz)		
Mode	802.11ac_VHT80	
Frequency		
5 775 MHz	76.37	

See next pages for actual measured spectrum plots.



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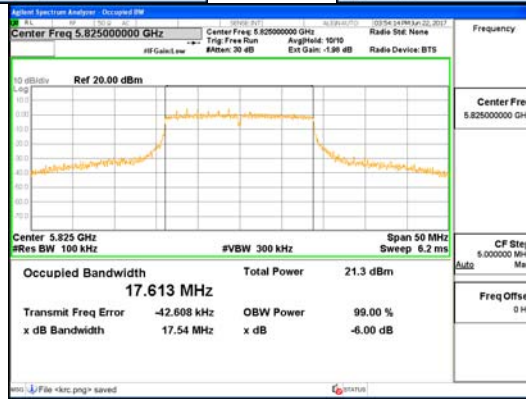
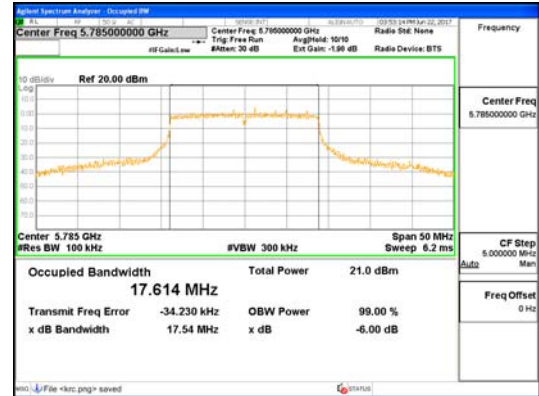


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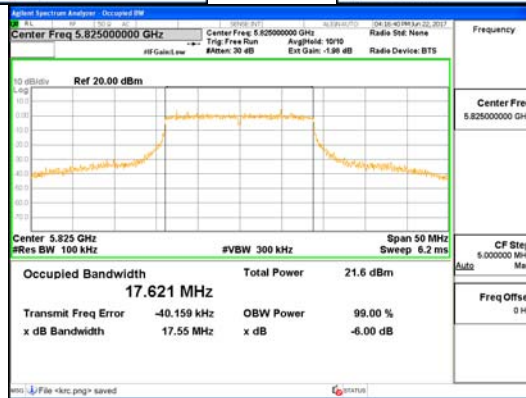


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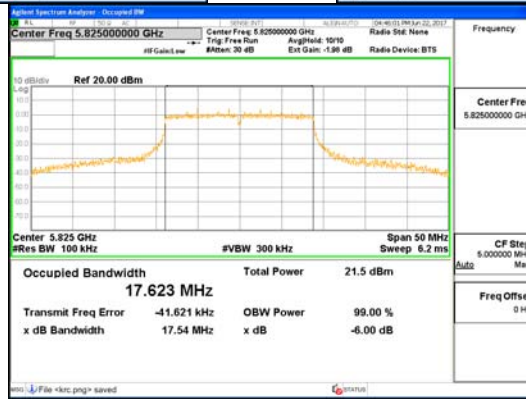
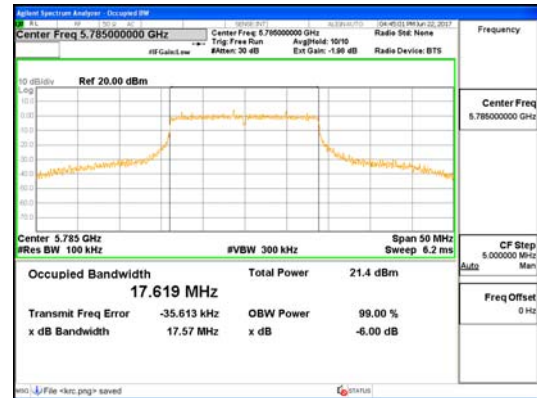
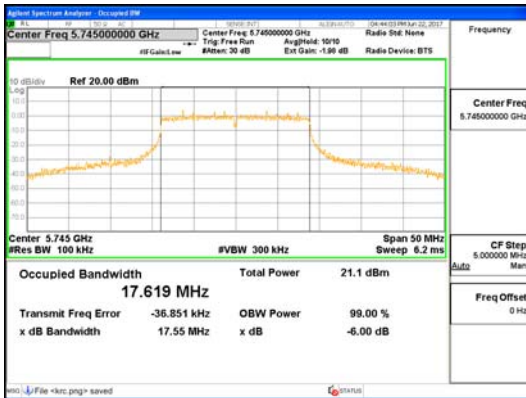
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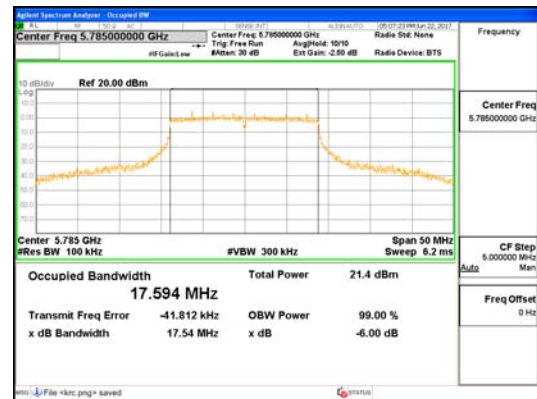
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Ant 1_802.11n_HT20



Ant 2_802.11n_HT20

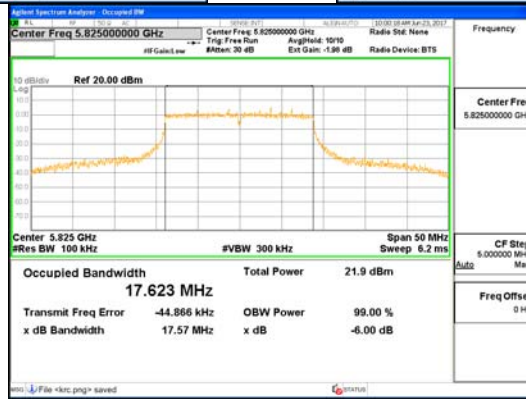
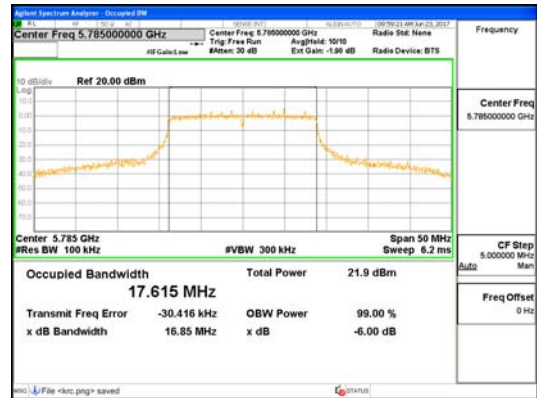


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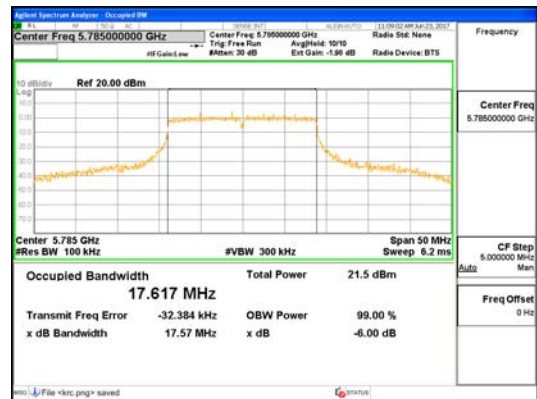


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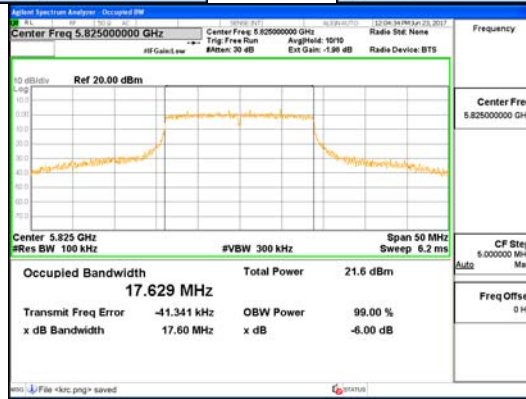
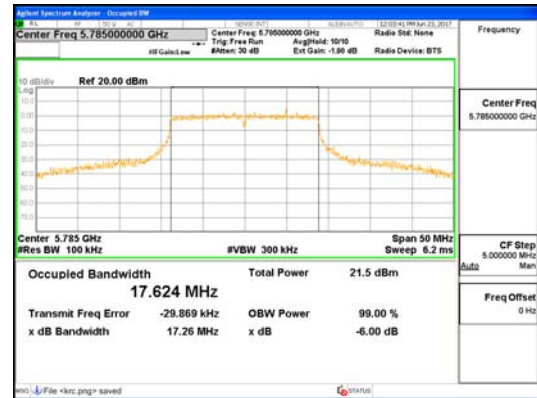
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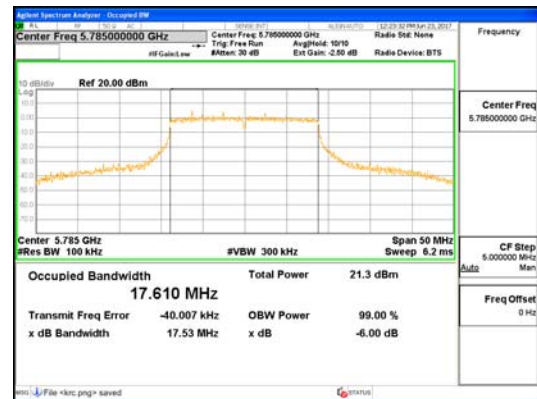
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Ant 1_802.11ac_VHT20



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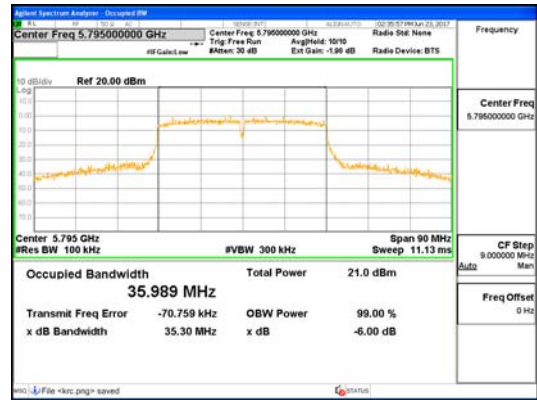
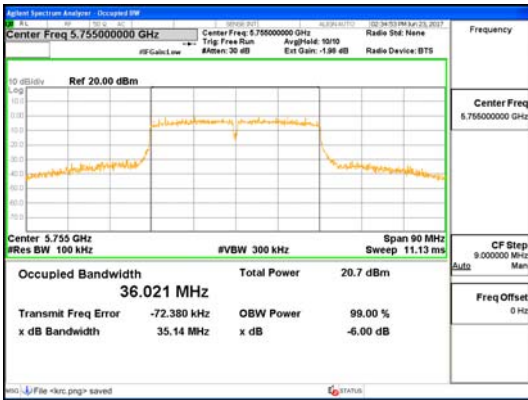


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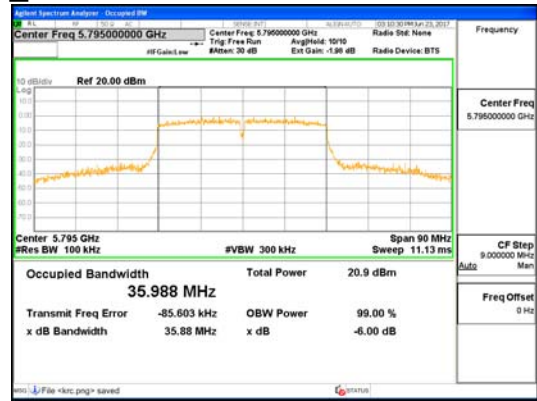


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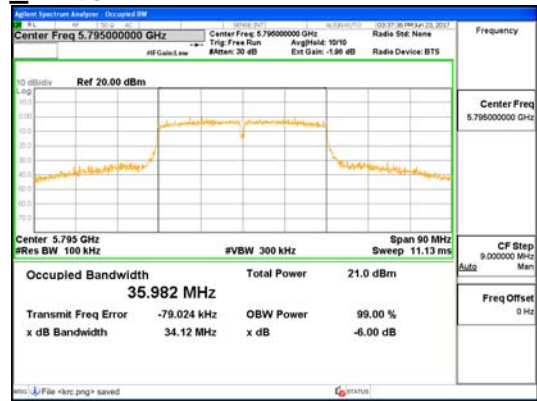
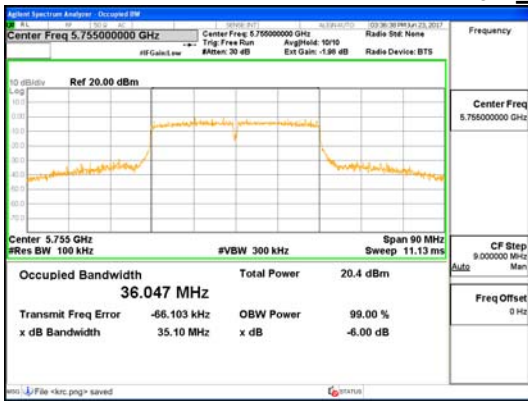
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Ant 1_802.11n_HT40



Ant 2_802.11n_HT40

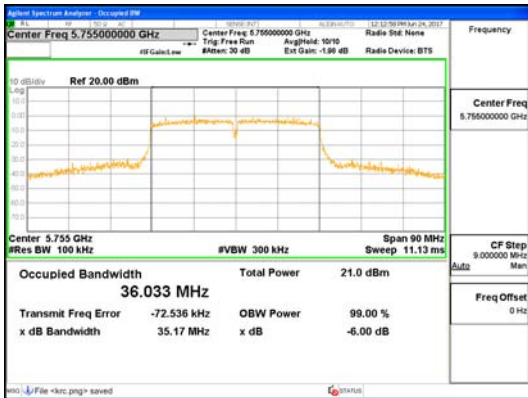


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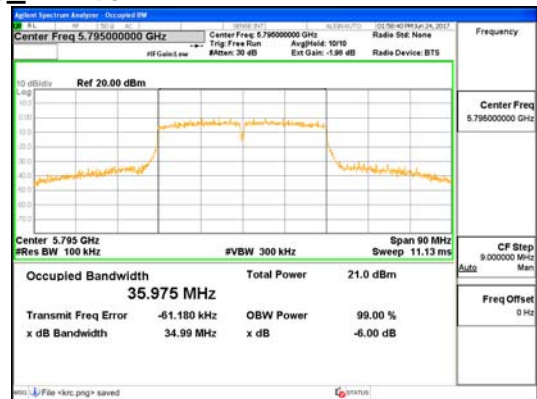


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Ant 0_802.11ac_VHT40



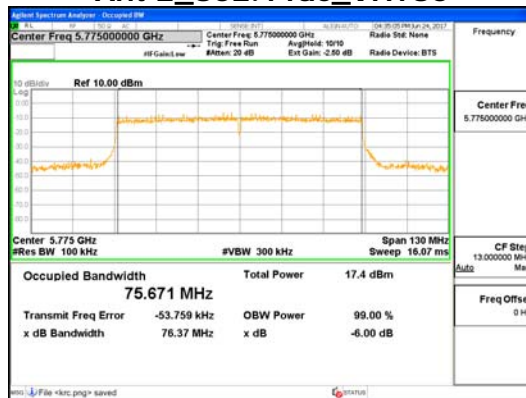
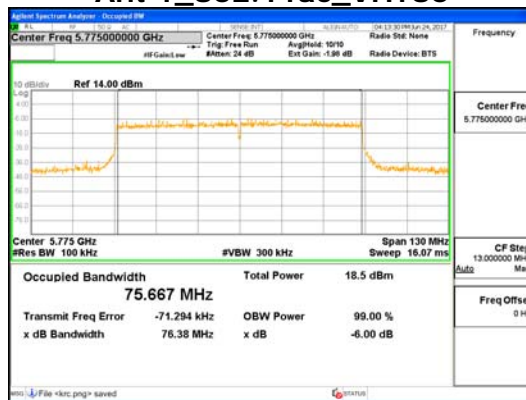
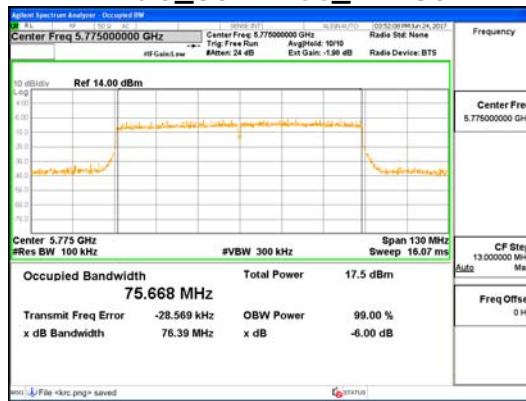
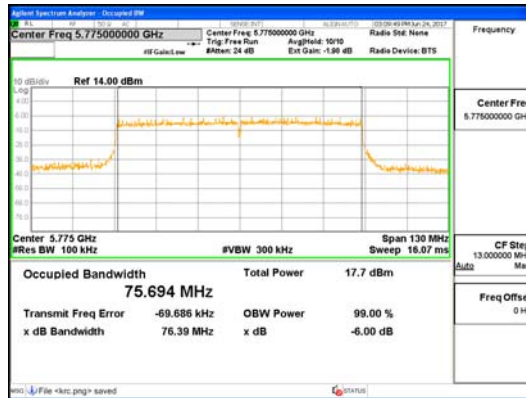
Ant 1_802.11ac_VHT40



Ant 2_802.11ac_VHT40



Ant 3_802.11ac_VHT40





4.3 26 dB Bandwidth and 99% Bandwidth

Test Procedures(ANSI C63.10-2013 6.9.2)

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

Test Procedures(ANSI C63.10-2013 6.9.3)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = approximately 1 % of the emission bandwidth
- b) VBW \geq RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Minimum Standard:

NA

Test Data:

Ant 0

Mode	26 dB Bandwidth and 99% Bandwidth (MHz)					
	802.11a		802.11n_HT20		802.11ac_VHT20	
	26 dB	99%	26 dB	99%	26 dB	99%
5 180 MHz	20.64	17.07	21.31	18.14	21.40	18.11
5 200 MHz	20.60	17.08	21.33	18.15	21.50	18.12
5 240 MHz	20.73	17.11	21.38	18.15	21.14	18.17
5 745 MHz	20.64	16.73	21.28	17.85	21.50	18.17
5 785 MHz	20.68	16.74	21.60	17.83	21.62	18.18
5 825 MHz	20.76	16.75	21.30	17.85	21.53	18.17



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26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.29	36.06	40.21	36.06
5 230 MHz	40.29	36.10	40.06	36.10
5 755 MHz	39.98	36.01	40.32	36.00
5 795 MHz	40.00	35.96	40.15	35.96

26 dB Bandwidth and 99% Bandwidth (MHz)		
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	82.87	75.90
5 775 MHz	82.18	75.77

Ant 1

26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 180 MHz	21.21	18.11	21.33	18.11
5 200 MHz	21.25	18.14	21.41	18.16
5 240 MHz	21.63	18.17	21.31	18.15
5 745 MHz	21.54	17.83	21.57	17.81
5 785 MHz	21.39	17.82	21.30	17.80
5 825 MHz	21.53	17.81	21.27	17.84

26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.23	36.05	40.18	36.06
5 230 MHz	40.29	36.07	40.41	36.09
5 755 MHz	39.79	36.00	40.31	36.07
5 795 MHz	39.62	35.97	40.26	36.05

26 dB Bandwidth and 99% Bandwidth (MHz)		
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	82.46	75.89
5 775 MHz	82.15	75.75



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26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 180 MHz	21.28	18.11	21.48	18.13
5 200 MHz	21.21	18.15	21.35	18.14
5 240 MHz	21.52	18.14	21.32	18.12
5 745 MHz	21.21	17.84	21.55	17.83
5 785 MHz	21.33	17.85	21.46	17.83
5 825 MHz	21.72	17.85	21.79	17.86

26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.10	36.05	40.51	36.05
5 230 MHz	40.20	36.09	40.42	36.10
5 755 MHz	40.39	36.03	39.93	36.02
5 795 MHz	40.05	35.96	40.02	35.97

26 dB Bandwidth and 99% Bandwidth (MHz)		
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	83.08	75.89
5 775 MHz	82.15	75.76



Ant 3

26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 180 MHz	21.25	18.15	21.13	18.15
5 200 MHz	21.32	18.12	21.32	18.11
5 240 MHz	21.25	18.12	21.29	18.15
5 745 MHz	21.30	17.80	21.24	17.81
5 785 MHz	20.98	17.78	21.06	17.81
5 825 MHz	21.51	17.80	20.96	17.79

26 dB Bandwidth and 99% Bandwidth (MHz)				
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.15	36.06	40.23	36.07
5 230 MHz	39.89	36.08	40.20	36.06
5 755 MHz	39.77	35.95	39.66	35.97
5 795 MHz	39.71	35.97	40.14	35.99

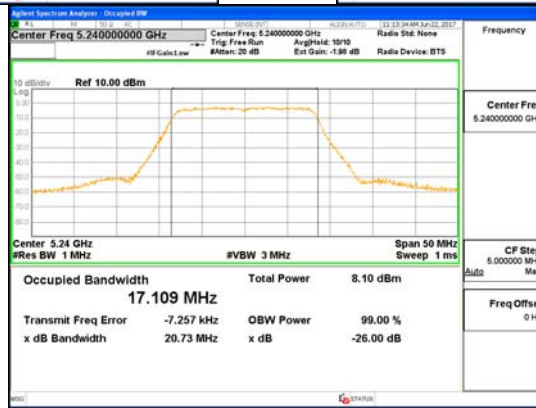
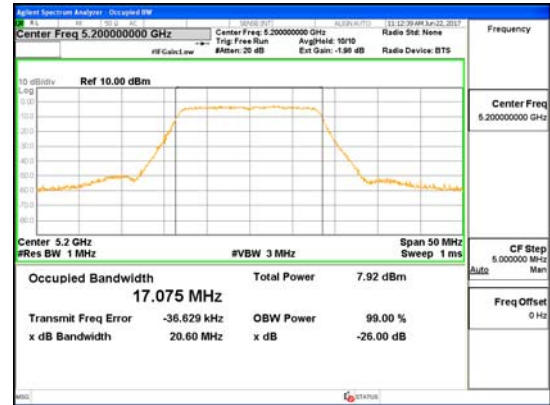
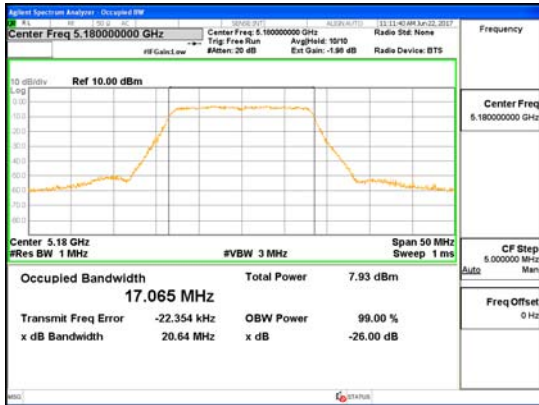
26 dB Bandwidth and 99% Bandwidth (MHz)		
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	83.21	75.82
5 775 MHz	82.23	75.71

See next pages for actual measured spectrum plots.

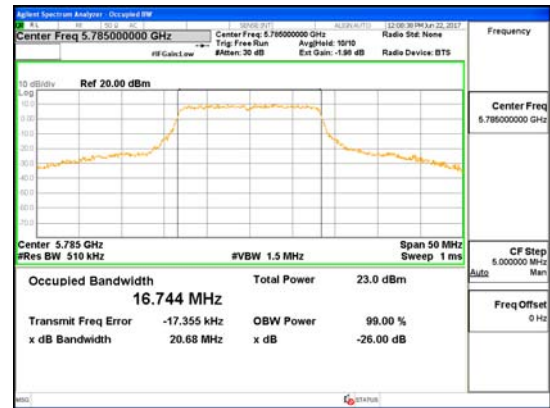
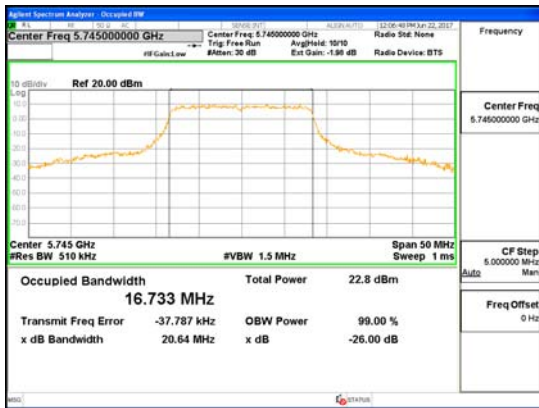


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Ant 0_802.11a_UNII-1

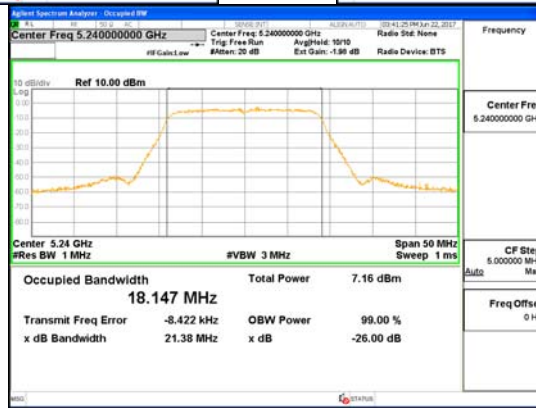
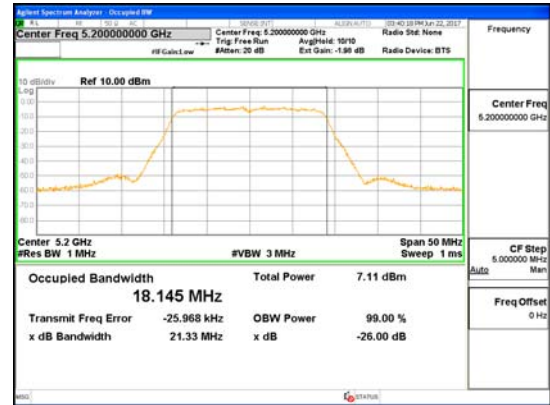
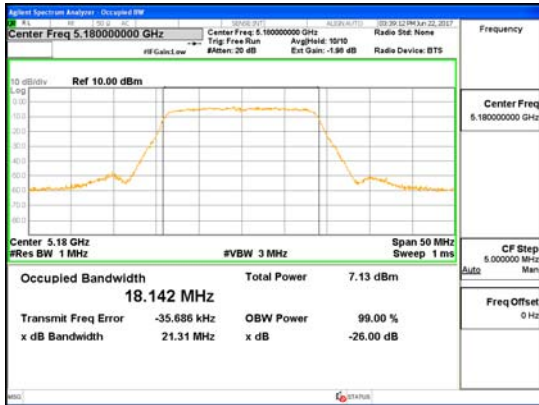


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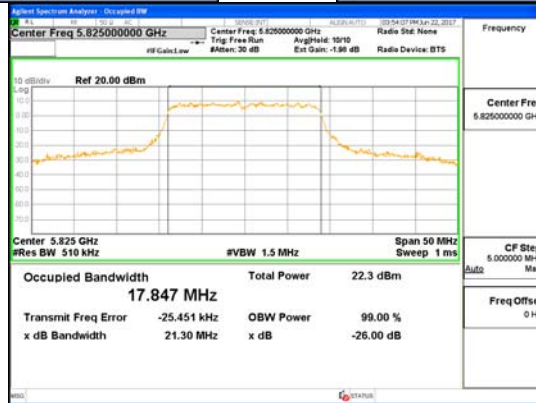
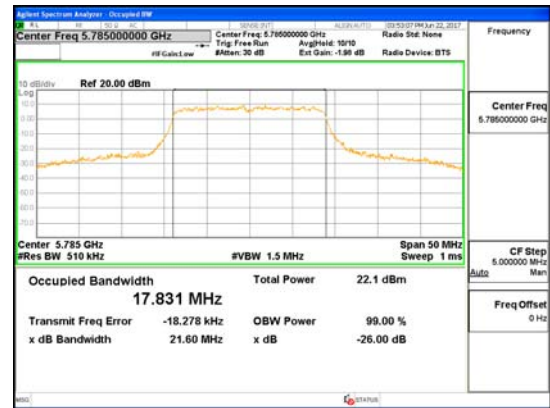
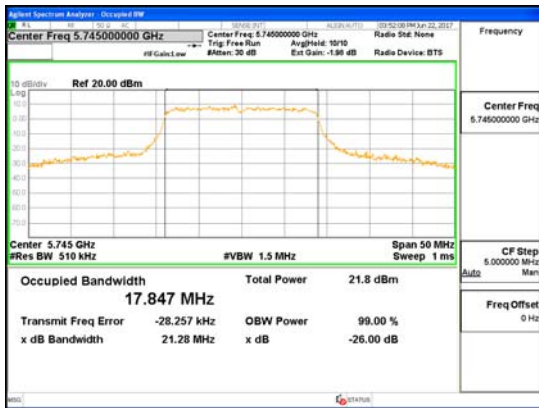


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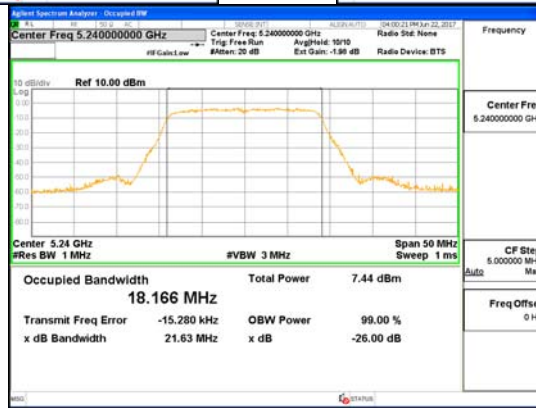
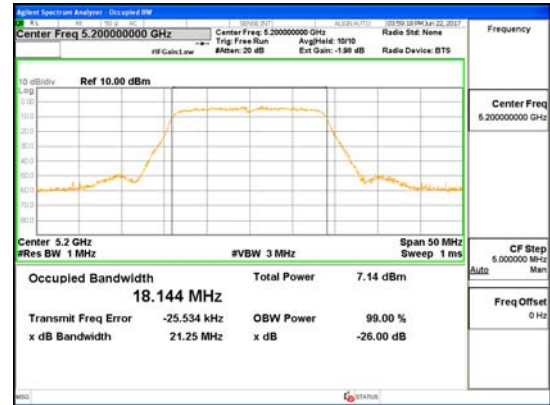
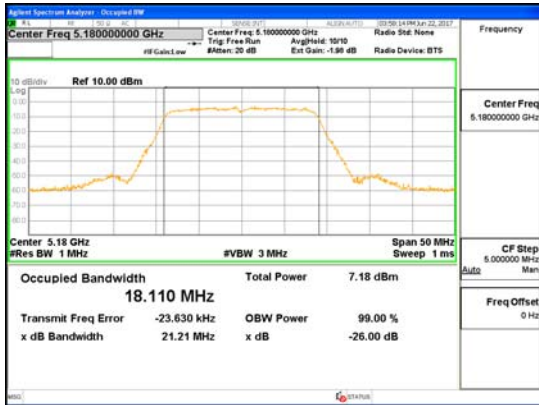


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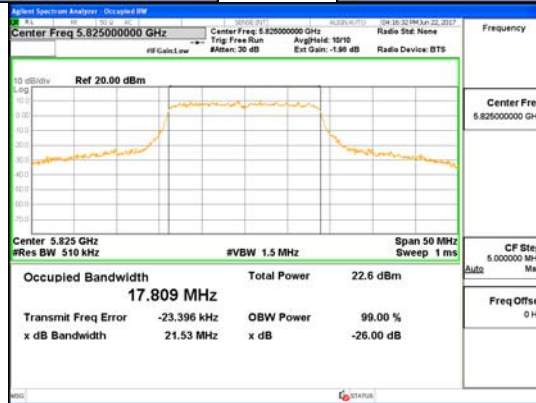
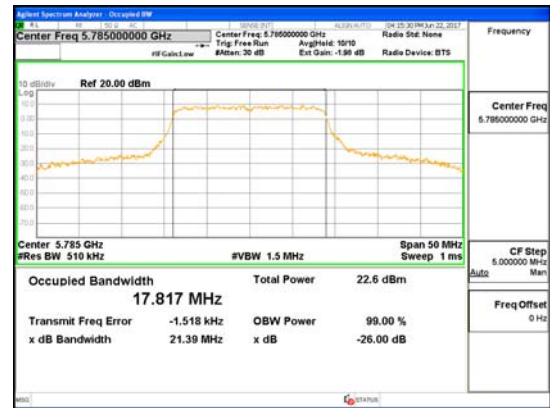
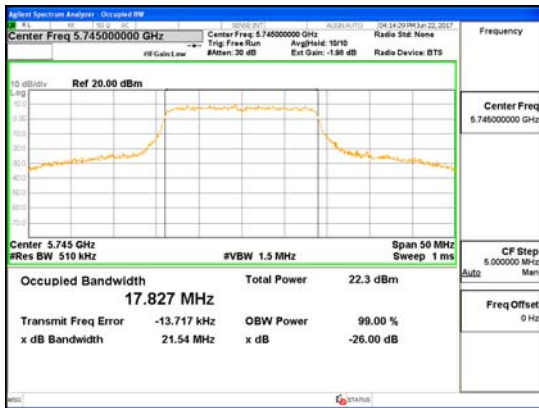


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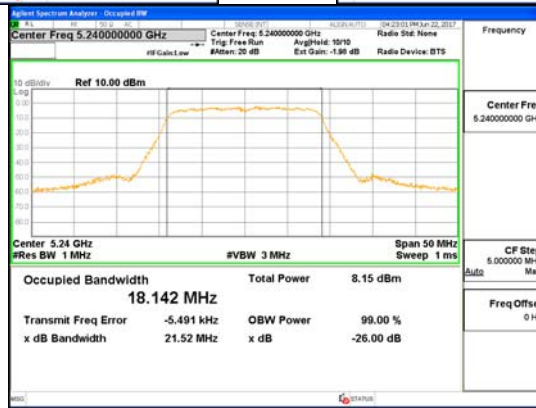
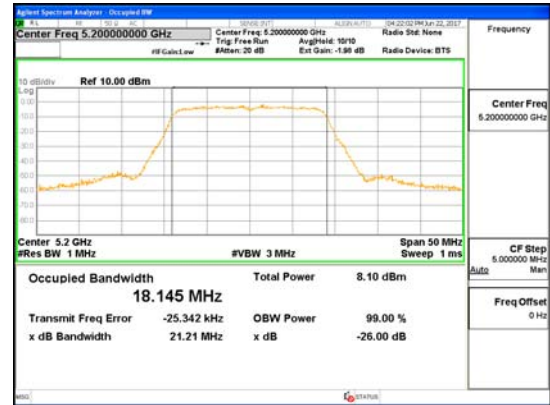
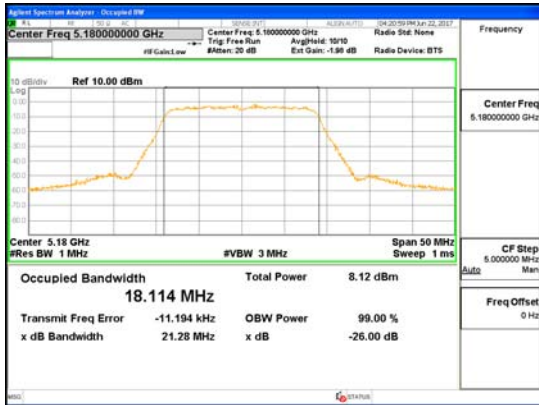


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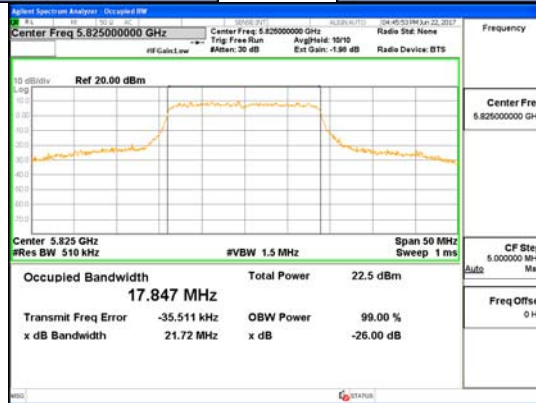
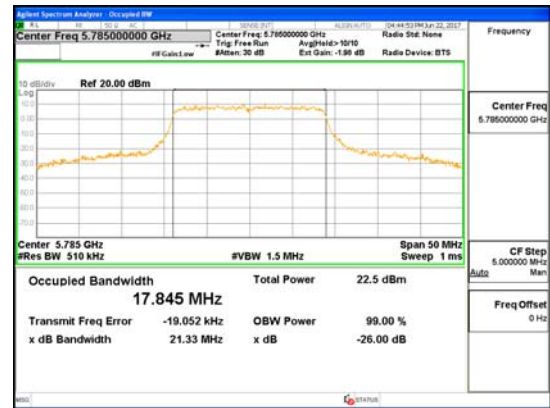
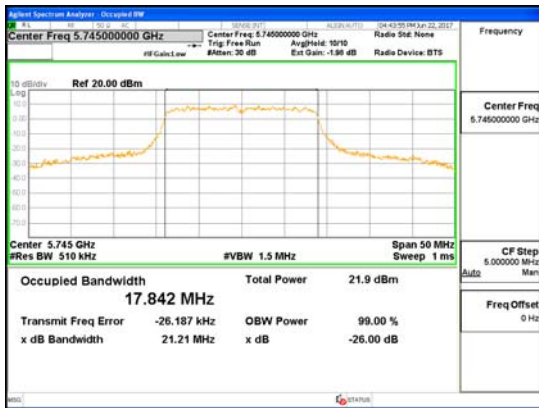


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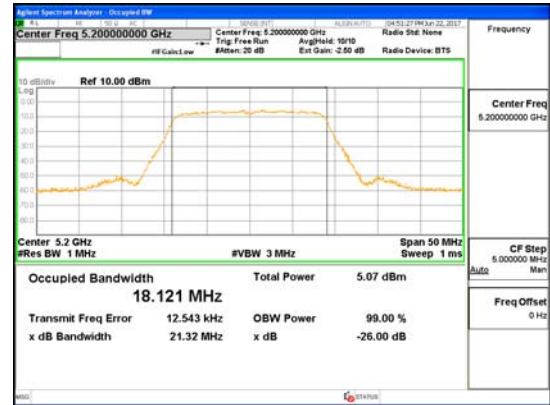
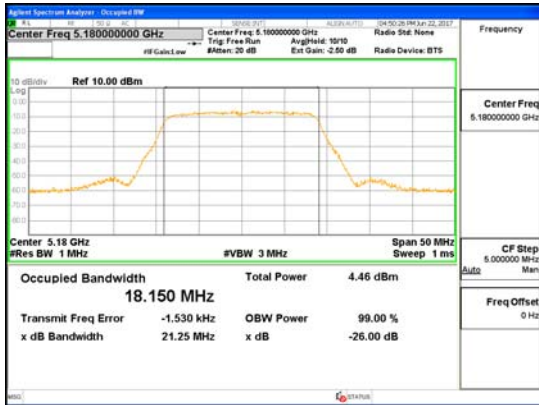


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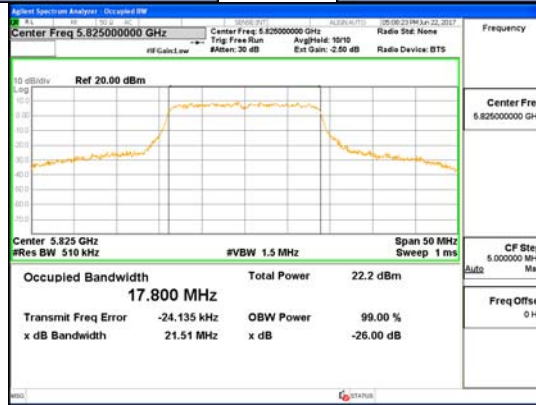
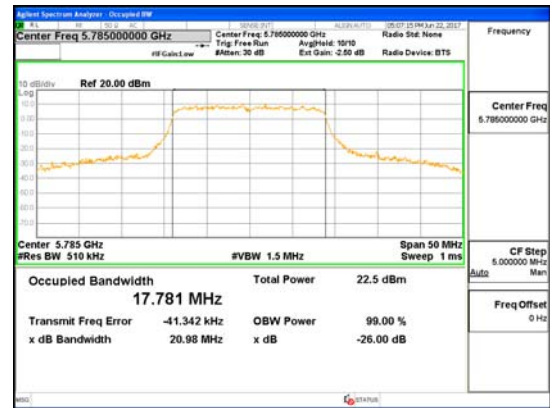
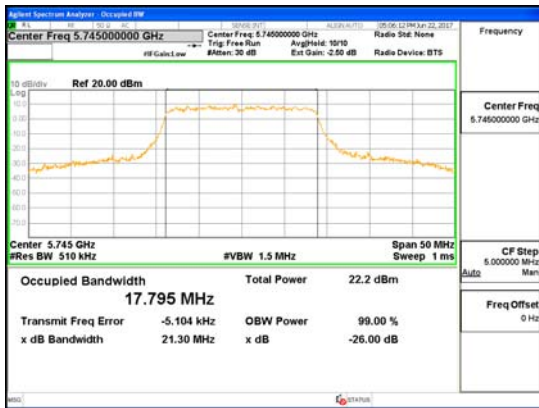


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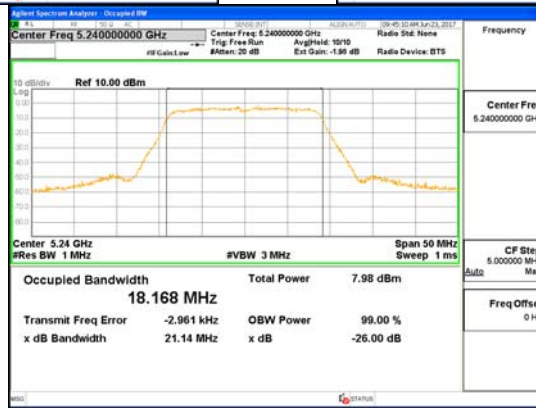
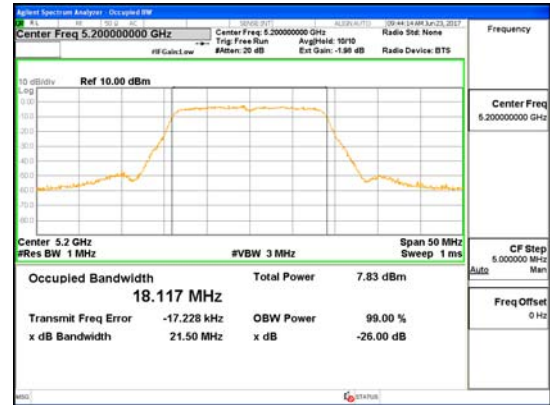
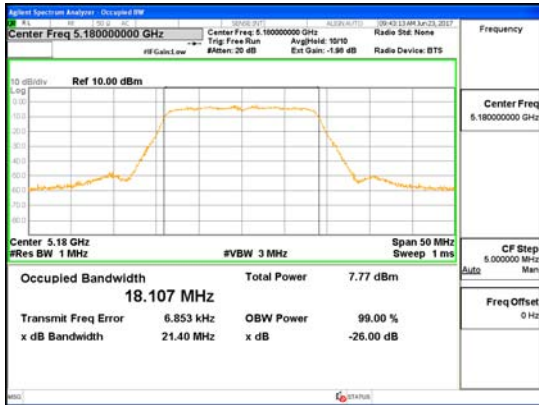


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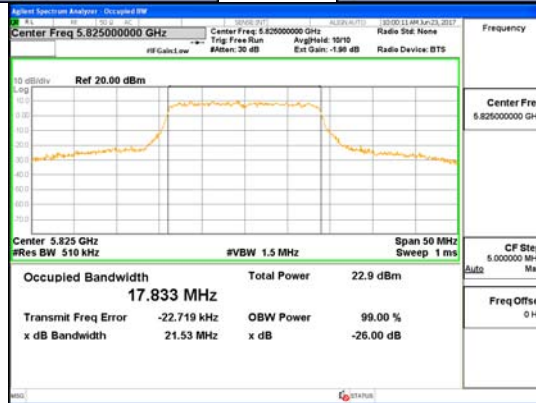
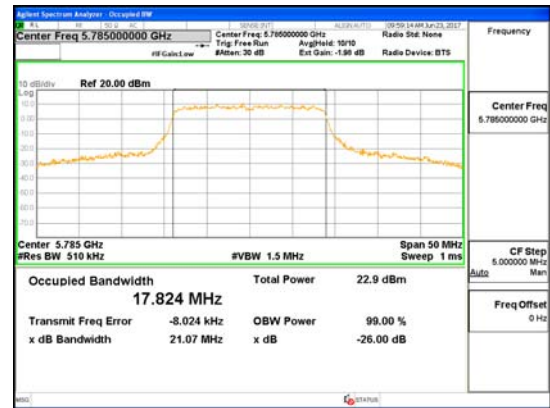
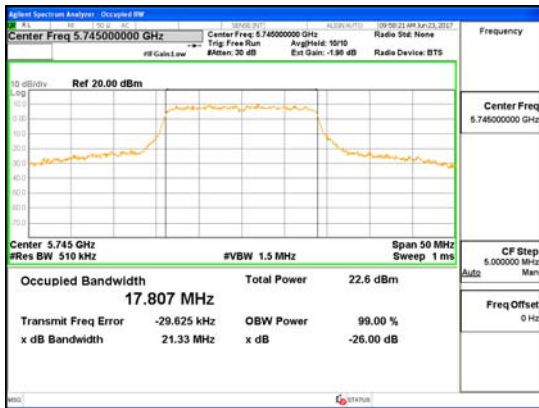


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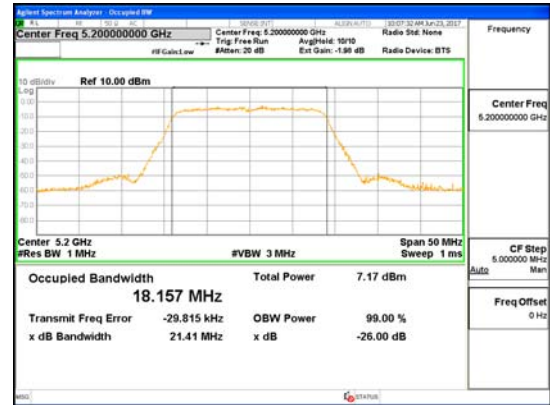
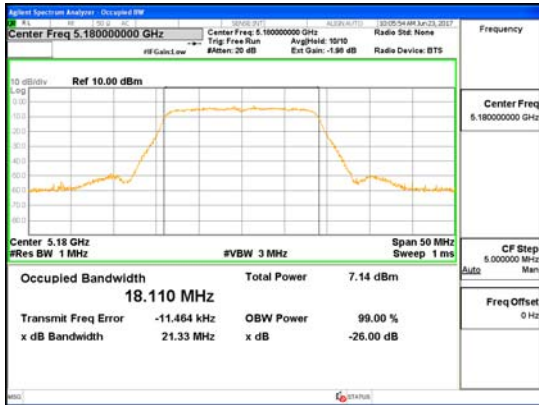


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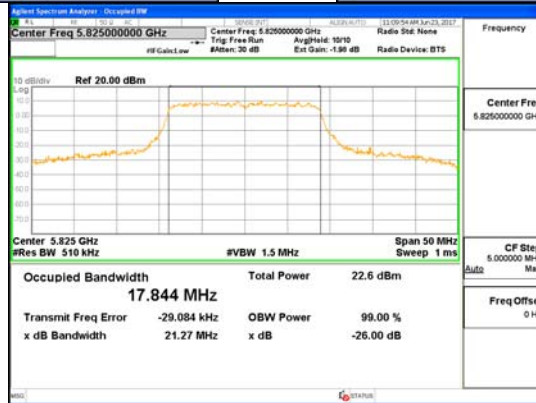
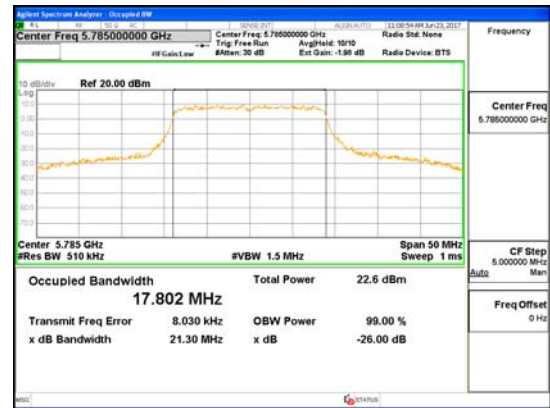
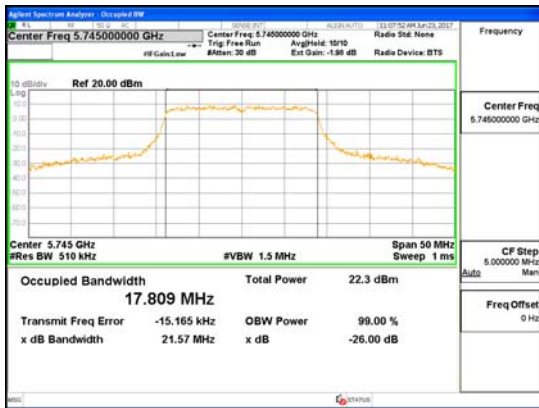


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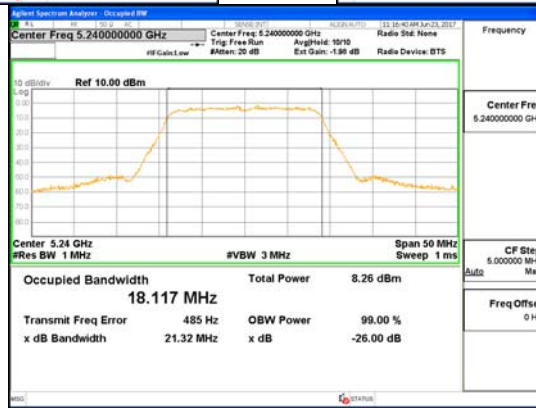
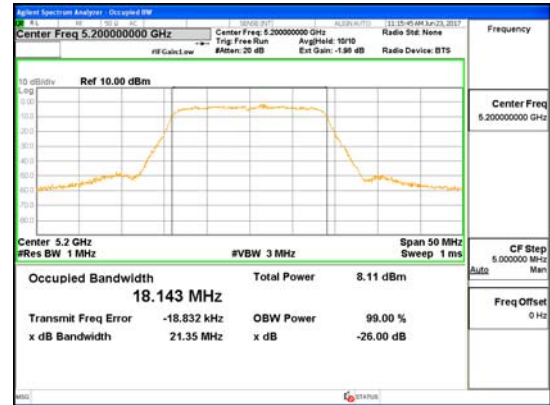
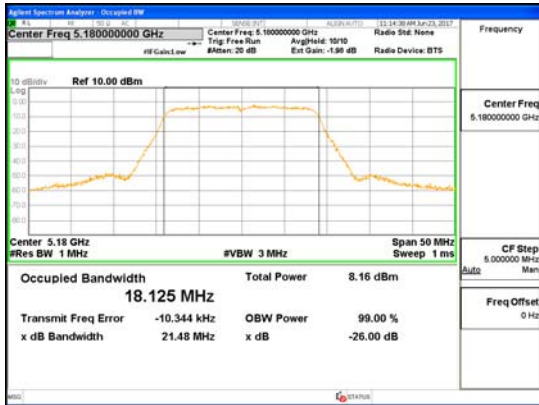


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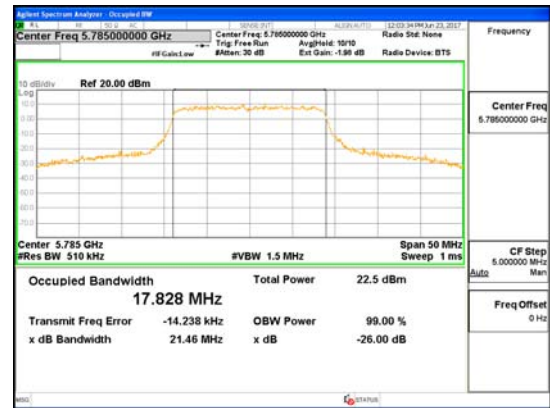
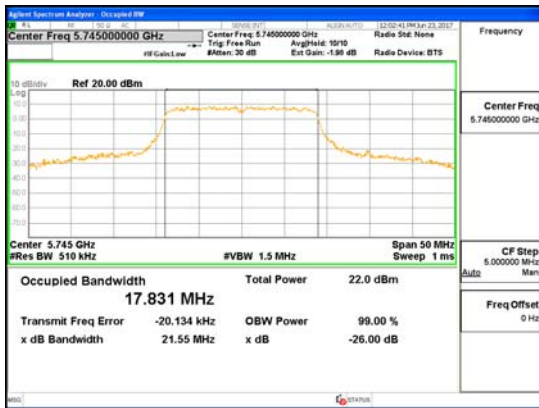


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Ant 2_802.11ac_VHT20_UNII-1

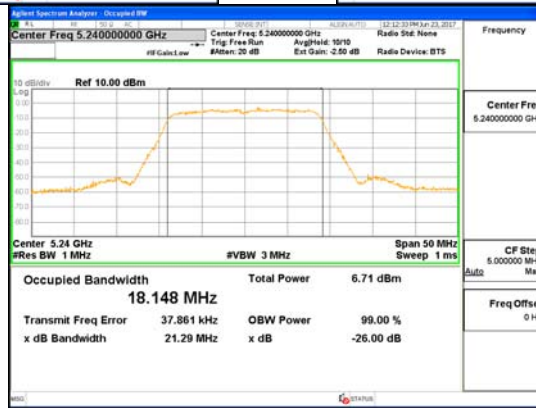
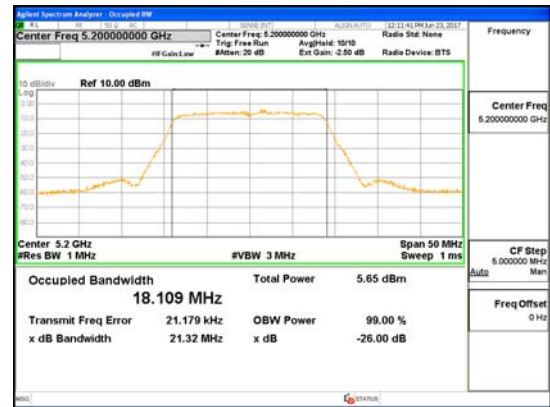
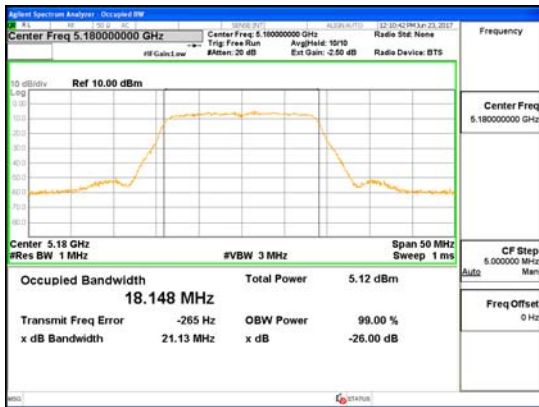


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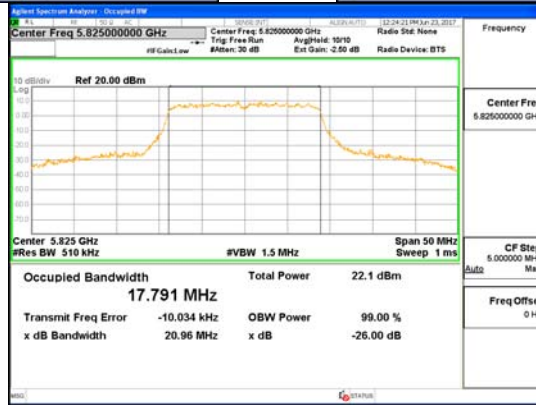
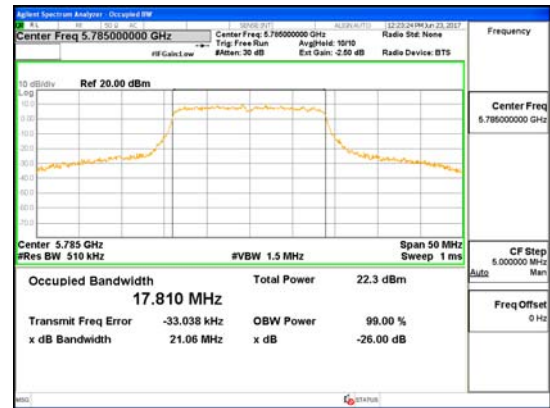
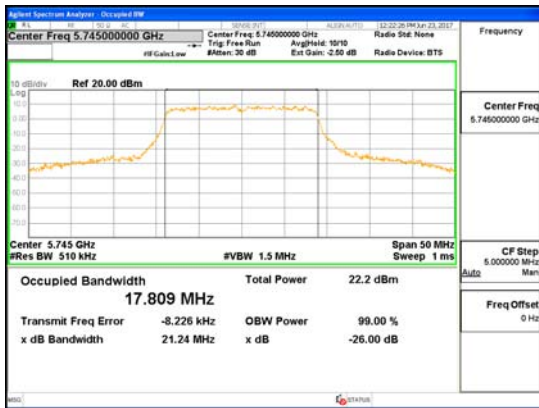


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Ant 3_802.11ac_VHT20_UNII-1

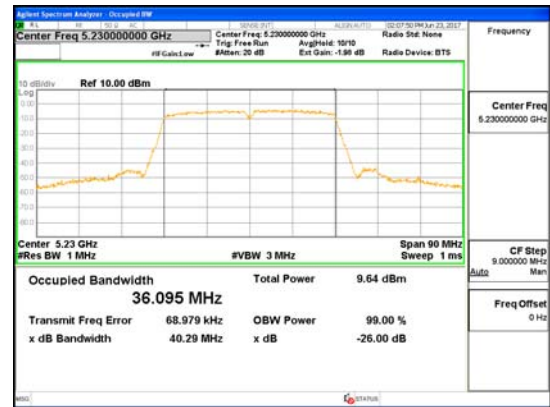
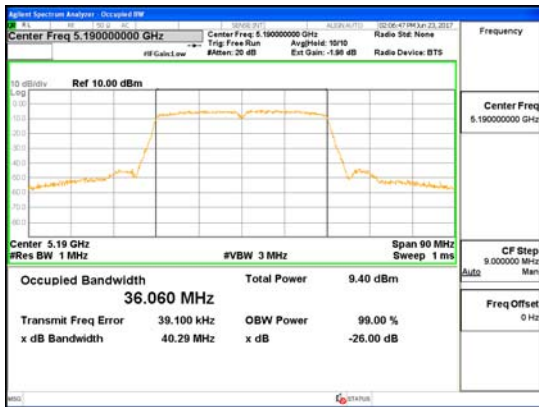


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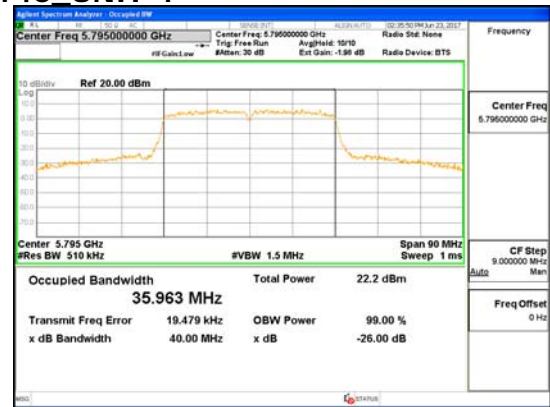
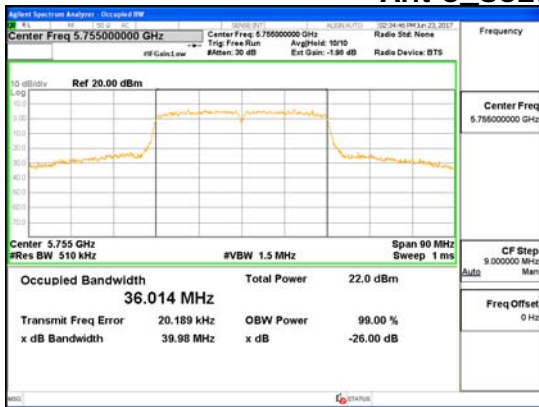


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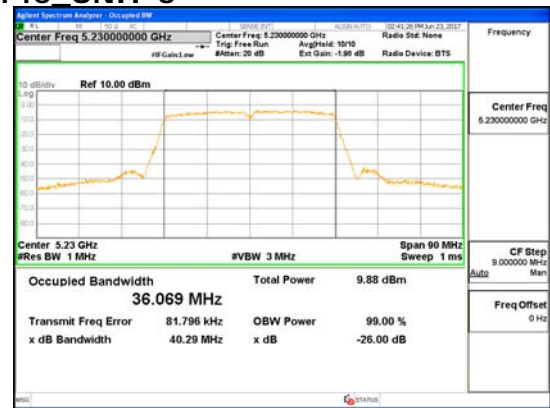
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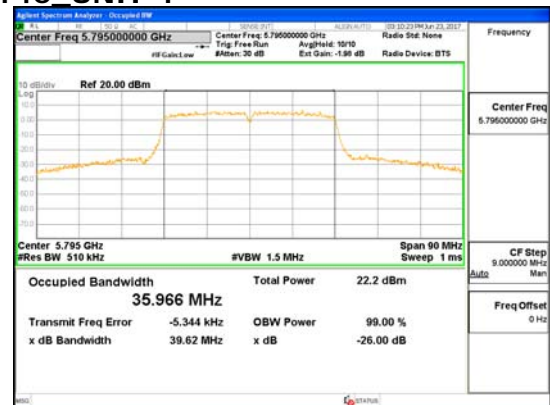
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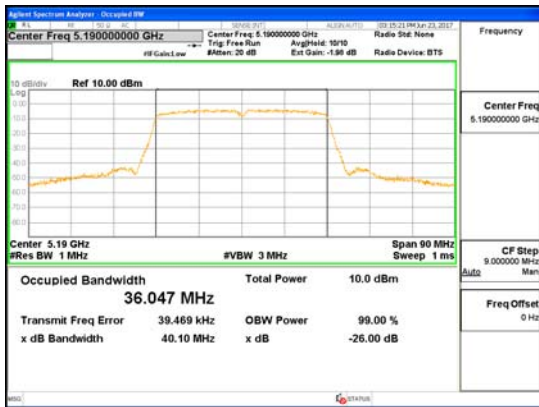


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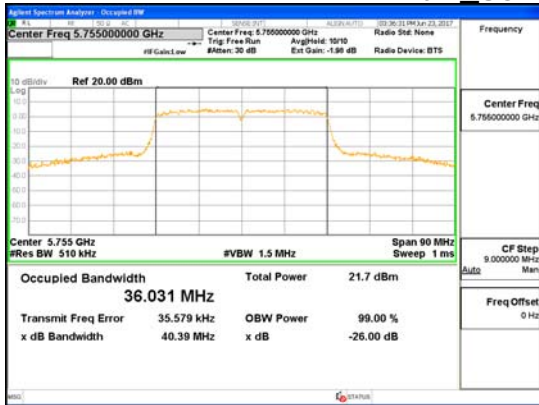


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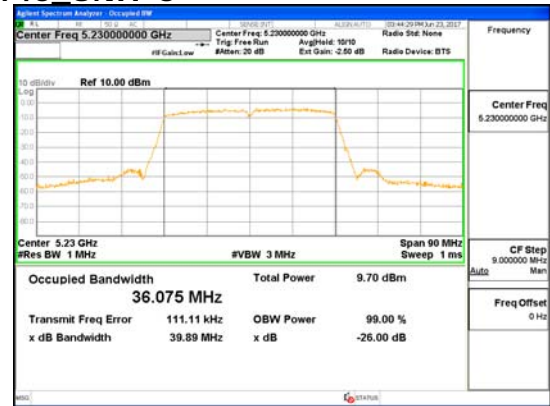
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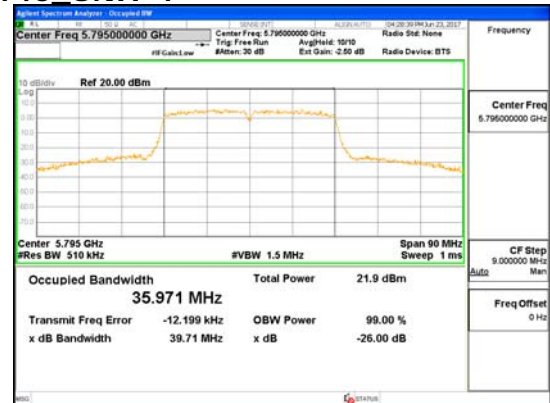
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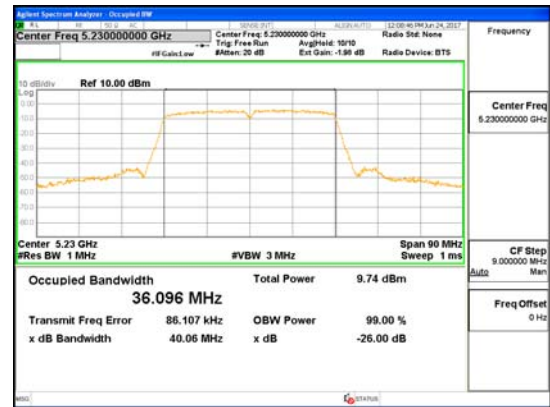


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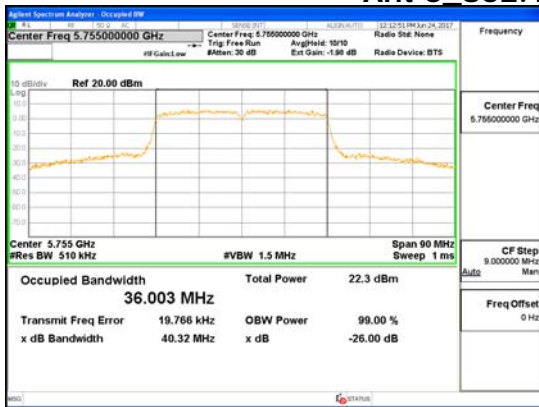


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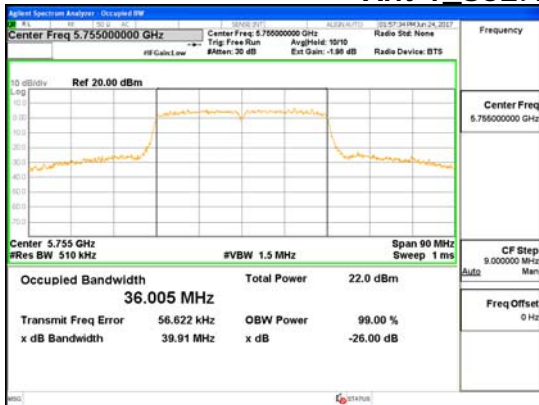
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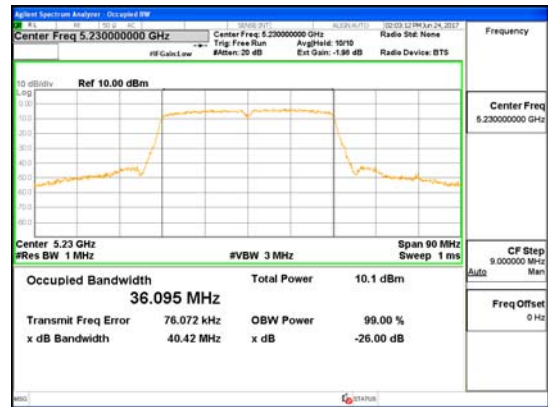
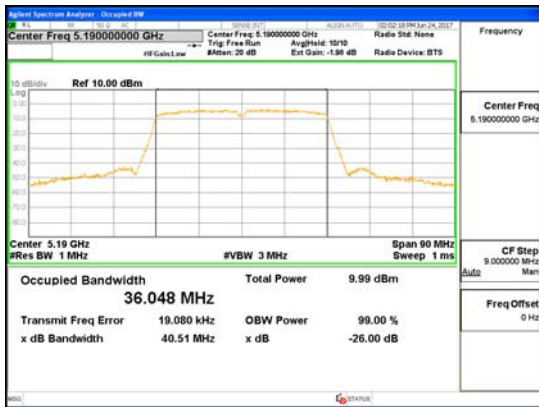


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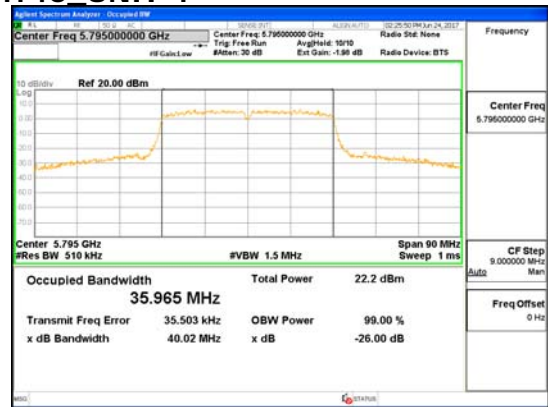
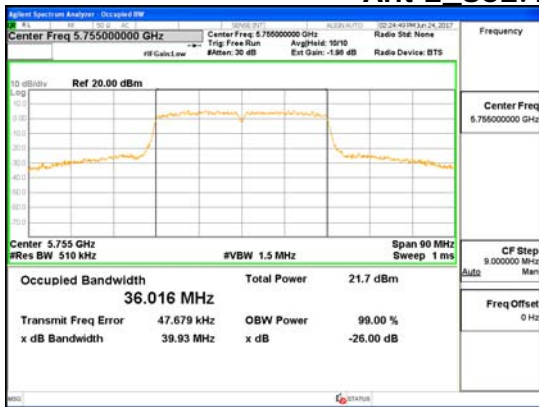


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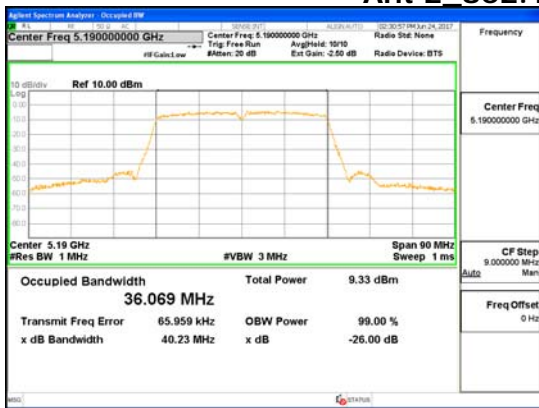
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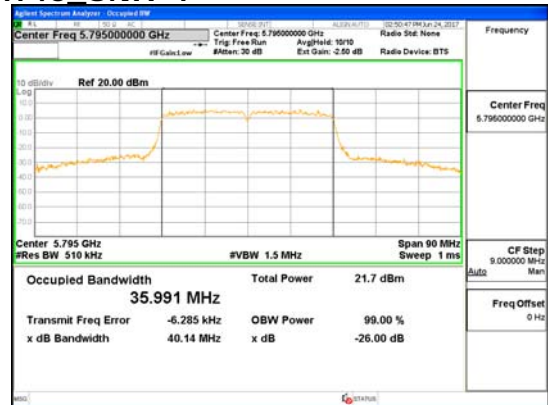
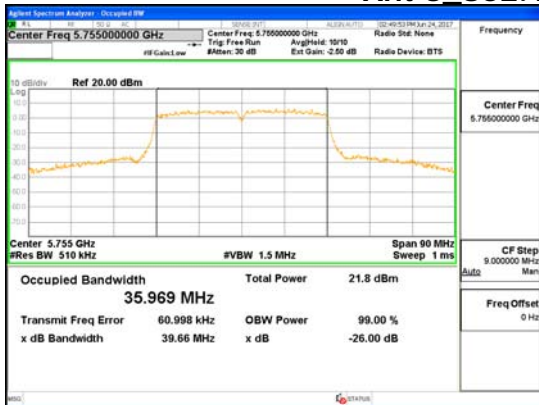
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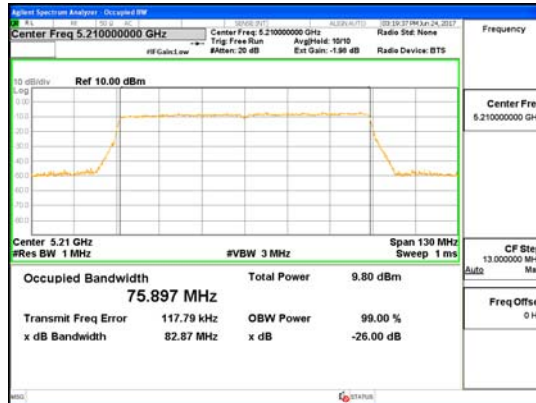


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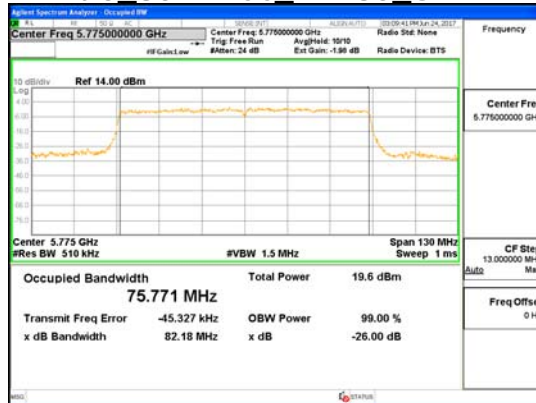


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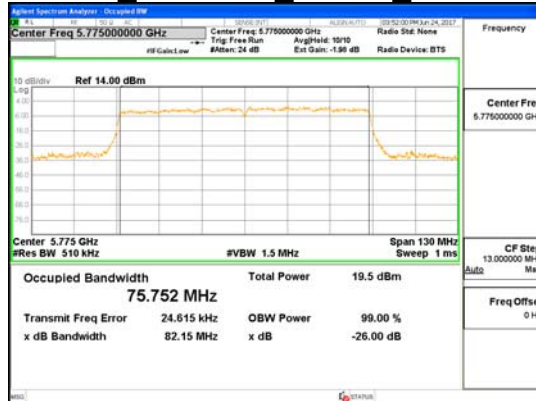
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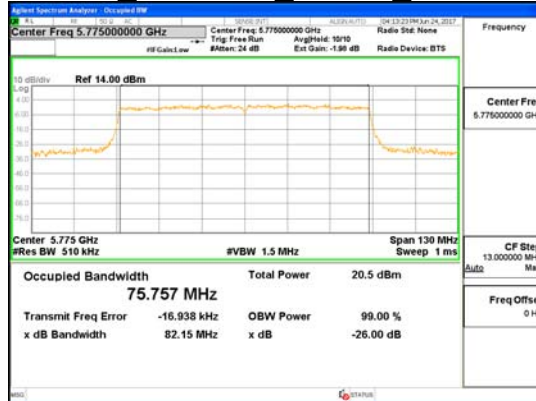
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Ant 2 802.11ac_VHT80_UNII-3



Ant 3 802.11ac_VHT80_UNII-1



Ant 3_802.11ac_VHT80_UNII-3