TEST REPORT

CTK Co., Ltd.
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Yongin-si, Gyeonggi-do, Korea
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Report No.: CTK-2018-01335

1. Client

◦ Name : KAONMEDIA Co., Ltd.

◦ Address : KAONMEDIA Building, 884-3 Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

◦ Date of Receipt : 2018-02-14

2. Manufacturer

◦ Name : KAONMEDIA Co., Ltd.

◦ Address : KAONMEDIA Building, 884-3 Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

3. Use of Report : For FCC Certification

4. Test Sample / Model: Layer3 TV / Client VM3000C

5. Date of Test : 2018-04-26 to 2018-05-16

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

7. Testing Environment: Temp.: (23 ± 5) ℃, Humidity: (50 ± 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)

2018-05-18

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

REPORT REVISION HISTORY

Date	Revision	Page No
2018-05-18	Issued (CTK-2018-01335)	all

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1. General Product Description

1.1 Client Information

Company	KAONMEDIA Co., Ltd.
Contact Point	KAONMEDIA Building, 884-3 Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Contact Person	Name : Kim tae-Sung E-mail : kkam@kaonmedia.com Tel : +82-31-724-8861

1.2 Product Information

FCC ID	WQTVM3000C
Product Description	Layer3 TV
Model name	Client VM3000C
Variant Model name	-
Operating Frequency	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	CDD Mode_802.11a : 22.90 dBm (194.85 mW) CDD Mode_802.11n_HT20 : 22.22 dBm (166.82 mW) CDD Mode_802.11n_HT40 : 21.38 dBm (137.37 mW) CDD Mode_802.11ac_VHT20 : 22.89 dBm (194.52 mW) CDD Mode_802.11ac_VHT40 : 21.36 dBm (136.91 mW) CDD Mode_802.11ac_VHT80 : 21.11 dBm (129.17 mW) SDM Mode_802.11n_HT20 : 22.06 dBm (160.55 mW) SDM Mode_802.11n_HT40 : 21.42 dBm (138.69 mW) SDM Mode_802.11ac_VHT20 : 22.65 dBm (183.93 mW) SDM Mode_802.11ac_VHT40 : 21.43 dBm (138.88 mW) SDM Mode_802.11ac_VHT80 : 21.00 dBm (125.83 mW)
Antenna Specification	Antenna type : PCB Antenna Peak Gain : 2 dBi
Type of Modulation	OFDM
Data 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
Power Source	DC 12 V (Adapter)
Hardware Rev	V1.0
Software Rev	V1.0

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-CA40	-
AD/DC Adapter	I.T.E POWER SUPPLY ALSO LISTED	SQUS50-120333	-

2. 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.

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.

3. 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

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.

Note 3: The sample was tested according to the following specification: FCC Part 15.247, ANSI C63.10-2013

Note 4: 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.
All modulation modes were tests. The results are only attached worst cases.

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	-	-

Test mode

- CDD mode

Test mode	Modulation	Data rate	Duty Cycle	Duty Cycle Factor
802.11a	DSSS	1 Mbps	95.7%	0.19 dB
802.11n_HT20	OFDM	MCS 0	95.2%	0.21 dB
802.11n_HT40	OFDM	MCS 0	90.9%	0.41 dB
802.11ac_VHT20	OFDM	MNSS 0	95.3%	0.21 dB
802.11ac_VHT40	OFDM	MNSS 0	91.1%	0.41 dB
802.11ac_VHT80	OFDM	MNSS 0	82.0%	0.86 dB

- SDM mode

Test mode	Modulation	Data rate	Duty Cycle	Duty Cycle Factor
802.11n_HT20	OFDM	MCS 24	84.3%	0.74 dB
802.11n_HT40	OFDM	MCS 24	74.2%	1.30 dB
802.11ac_VHT20	OFDM	MNSS 0	84.5%	0.73 dB
802.11ac_VHT40	OFDM	MNSS 0	74.3%	1.29 dB
802.11ac_VHT80	OFDM	MNSS 0	62.3%	2.06 dB

3.3 Device Modifications

The following modifications were necessary for compliance:

Not applicable

3.4 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 ≤ 1 GHz)	± 4.0 dB
Radiated Emissions (f > 1 GHz)	± 5.0 dB

3.5 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. Technical Characteristic Test

4.1 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 ≥ 3 x 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

Test Data:

CDD Mode_ANT0

	6 dB Bandwidth (MHz)		
Mode / Frequency	802.11a	802.11n_HT20	802.11ac_VHT20
5 745 MHz	16.50	17.65	17.64
5 785 MHz	16.49	17.68	17.63
5 825 MHz	16.47	17.71	17.67
Measurement uncertainty	± 0.1 MHz		

	6 dB Bandwidth (MHz)	
Mode / Frequency	802.11n_HT40	802.11ac_VHT40
5 755 MHz	36.46	36.43
5 795 MHz	36.46	36.43
Measurement uncertainty	± 0.1 MHz	

	6 dB Bandwidth (MHz)
Mode / Frequency	802.11ac_VHT80
5 775 MHz	76.29
Measurement uncertainty	± 0.1 MHz

CDD Mode_ANT1

	6 dB Bandwidth (MHz)		
Mode / Frequency	802.11a	802.11n_HT20	802.11ac_VHT20
5 745 MHz	16.44	17.69	17.67
5 785 MHz	16.43	17.66	17.64
5 825 MHz	16.45	17.63	17.66
Measurement uncertainty	± 0.1 MHz		

	6 dB Bandwidth (MHz)	
Mode / Frequency	802.11n_HT40	802.11ac_VHT40
5 755 MHz	36.43	36.43
5 795 MHz	36.44	36.44
Measurement uncertainty	± 0.1 MHz	

	6 dB Bandwidth (MHz)
Mode / Frequency	802.11ac_VHT80
5 775 MHz	76.30
Measurement uncertainty	± 0.1 MHz

CDD Mode_ANT2

	6 dB Bandwidth (MHz)		
Mode / Frequency	802.11a	802.11n_HT20	802.11ac_VHT20
5 745 MHz	16.45	17.68	17.64
5 785 MHz	16.43	17.64	17.66
5 825 MHz	16.45	17.64	17.68
Measurement uncertainty	± 0.1 MHz		

	6 dB Bandwidth (MHz)	
Mode / Frequency	802.11n_HT40	802.11ac_VHT40
5 755 MHz	36.43	36.40
5 795 MHz	36.17	36.39
Measurement uncertainty	± 0.1 MHz	

	6 dB Bandwidth (MHz)
Mode / Frequency	802.11ac_VHT80
5 775 MHz	76.31
Measurement uncertainty	± 0.1 MHz

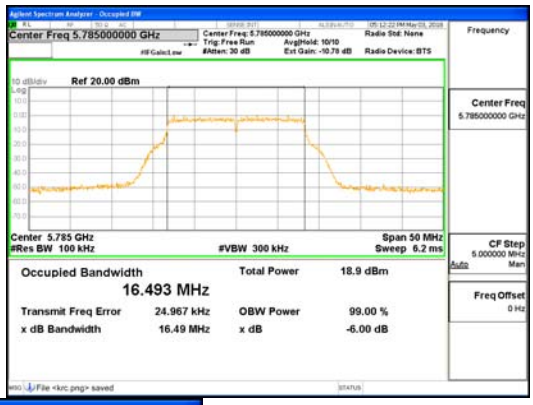
CDD Mode_ANT3

	6 dB Bandwidth (MHz)		
Mode / Frequency	802.11a	802.11n_HT20	802.11ac_VHT20
5 745 MHz	16.42	17.72	17.62
5 785 MHz	16.48	17.65	17.68
5 825 MHz	16.49	17.65	17.64
Measurement uncertainty	± 0.1 MHz		

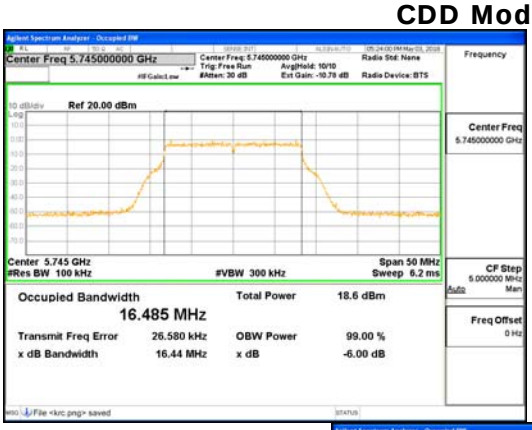
	6 dB Bandwidth (MHz)	
Mode / Frequency	802.11n_HT40	802.11ac_VHT40
5 755 MHz	36.42	36.45
5 795 MHz	36.42	36.44
Measurement uncertainty	± 0.1 MHz	

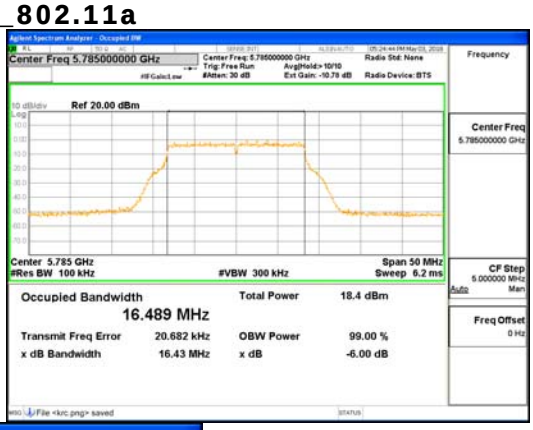
	6 dB Bandwidth (MHz)
Mode / Frequency	802.11ac_VHT80
5 775 MHz	76.32
Measurement uncertainty	± 0.1 MHz

See next pages for actual measured spectrum plots.



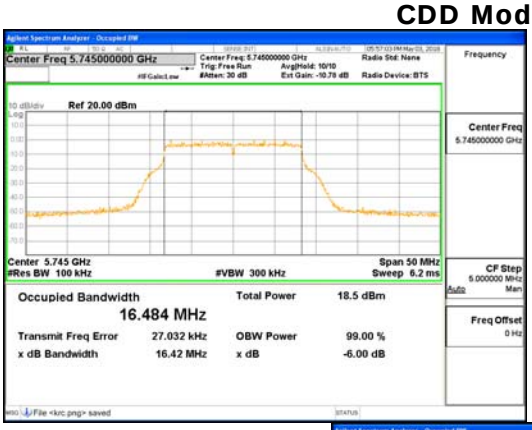
CDD Mode_ANT0_802.11a

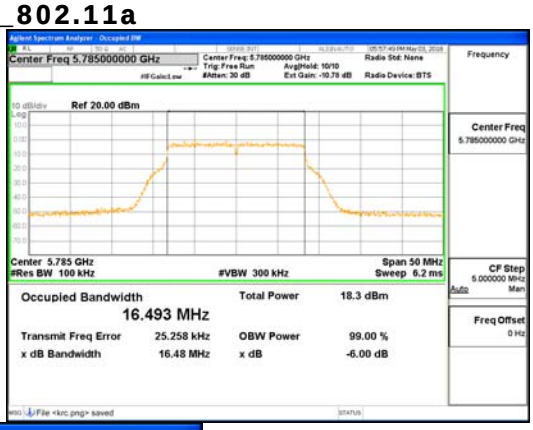




CDD Mode_ANT1_802.11a

CDD Mode_ANT2_802.11a





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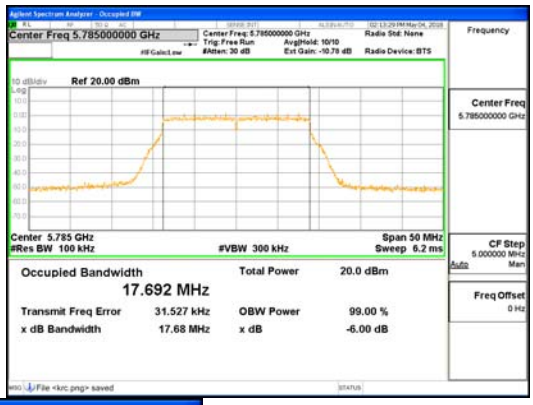

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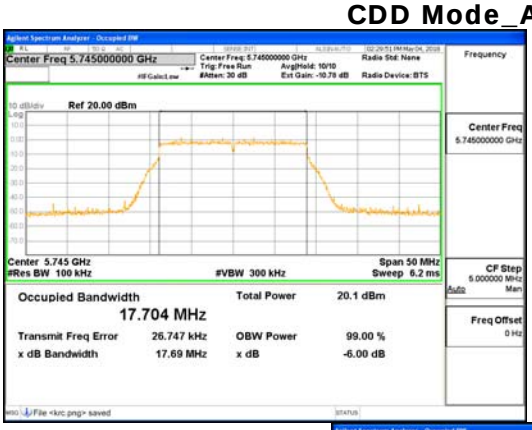

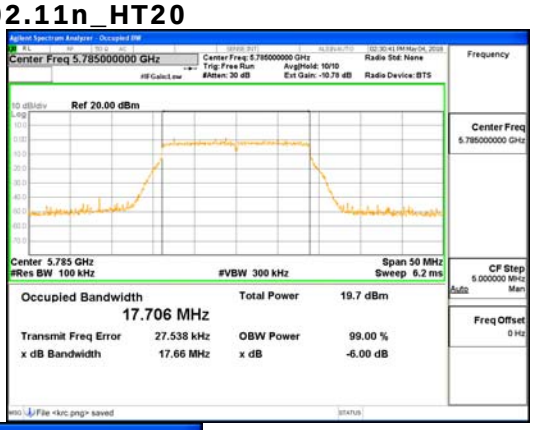

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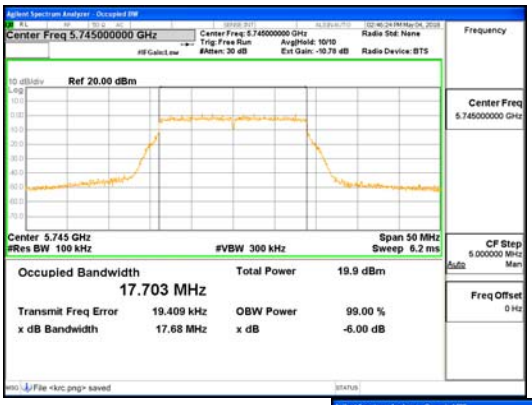

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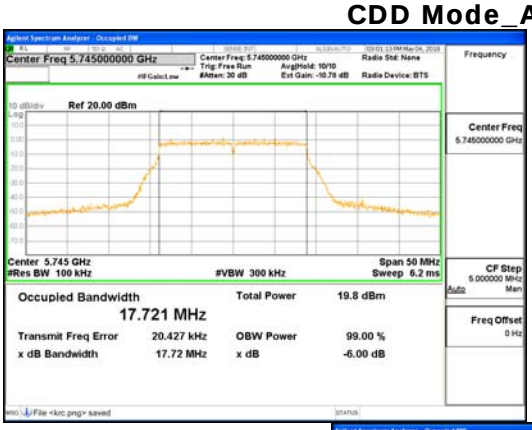

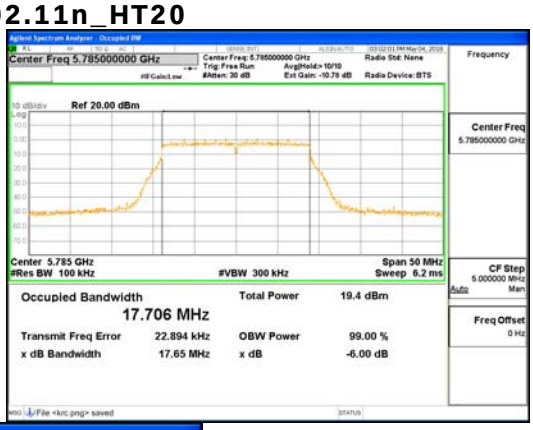

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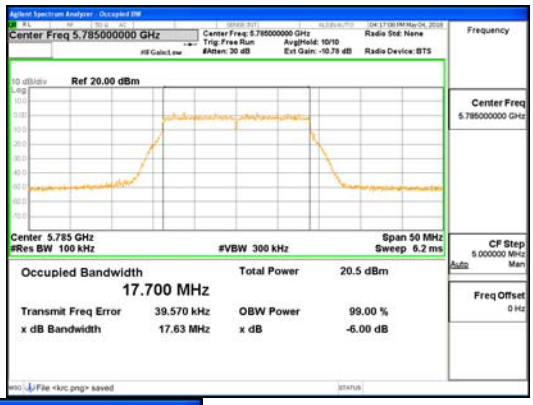
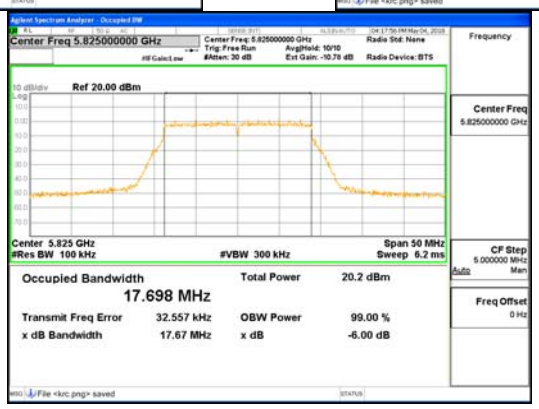
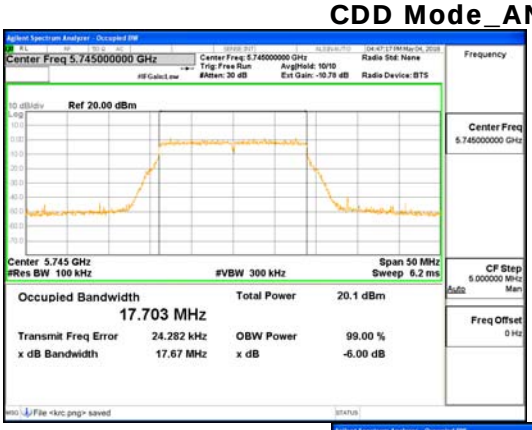
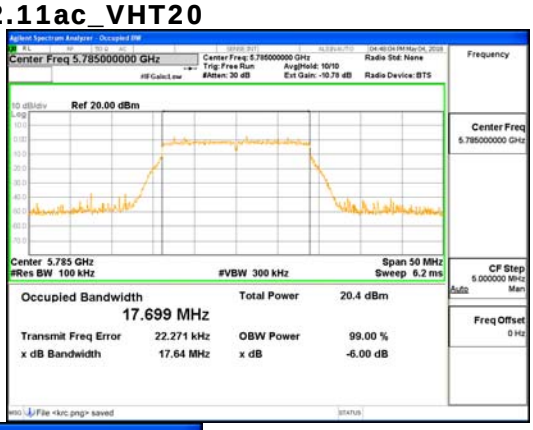


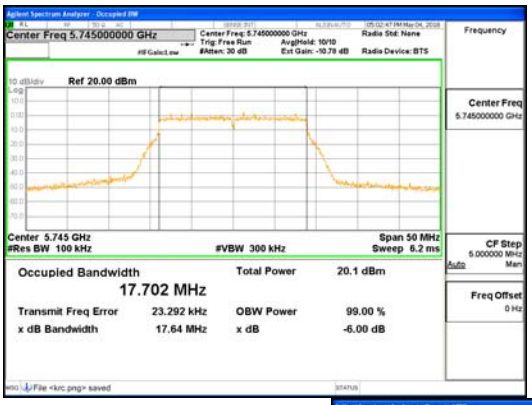


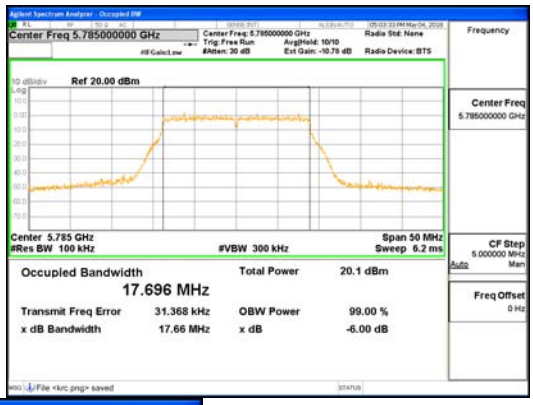
CDD Mode_ANT0_802.11ac_VHT20





CDD Mode_ANT1_802.11ac_VHT20





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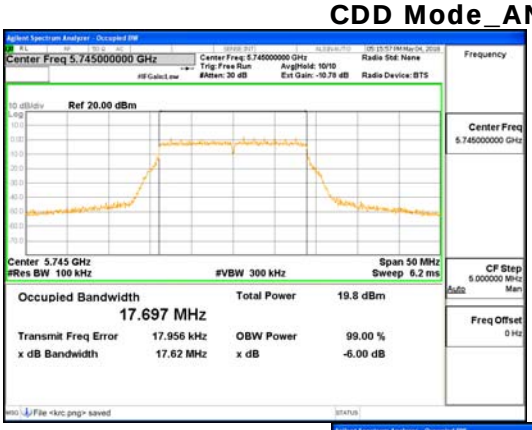

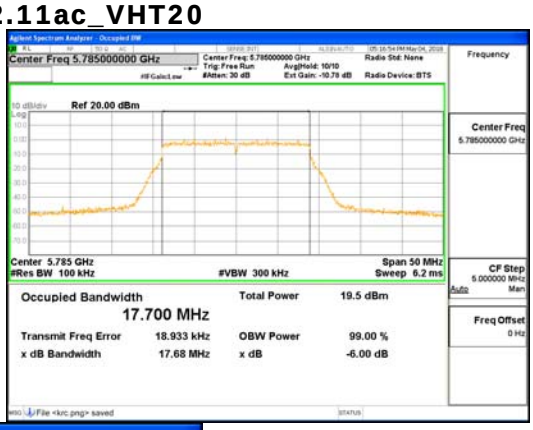

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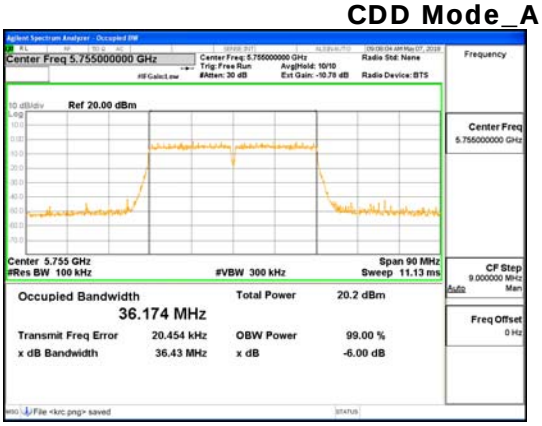
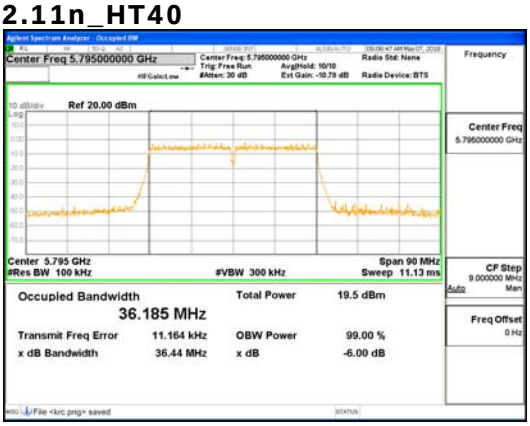
CDD Mode_ANT0_802.11n_HT40





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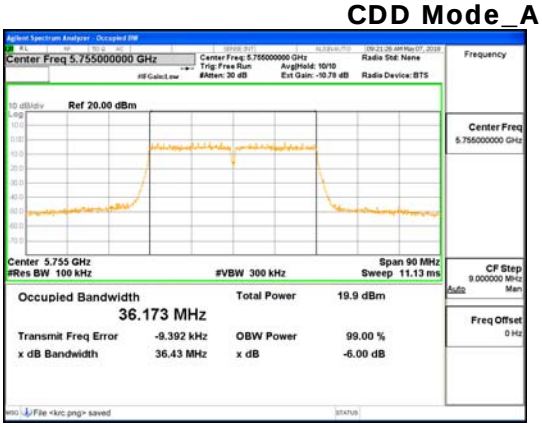

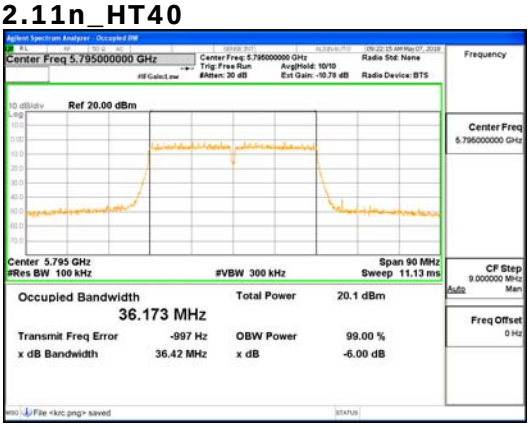

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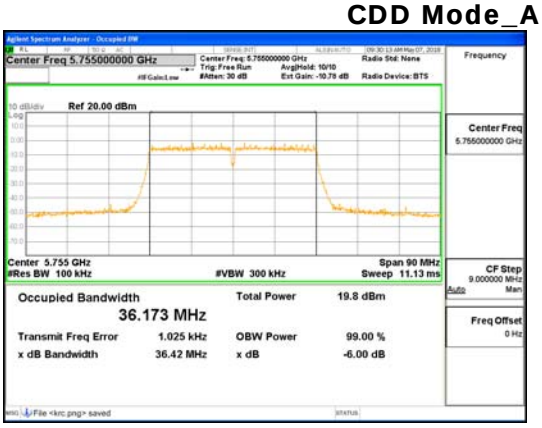
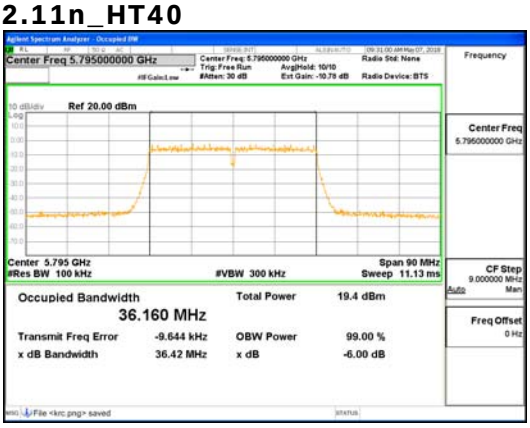
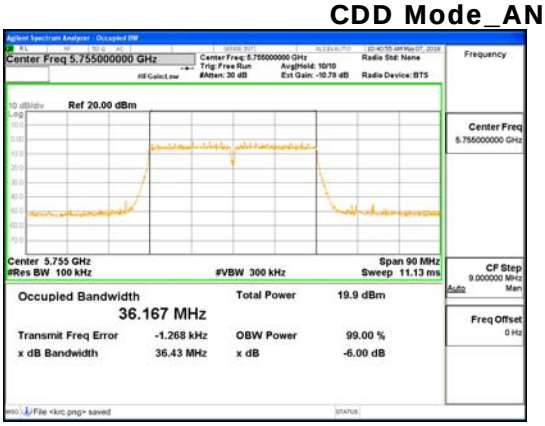
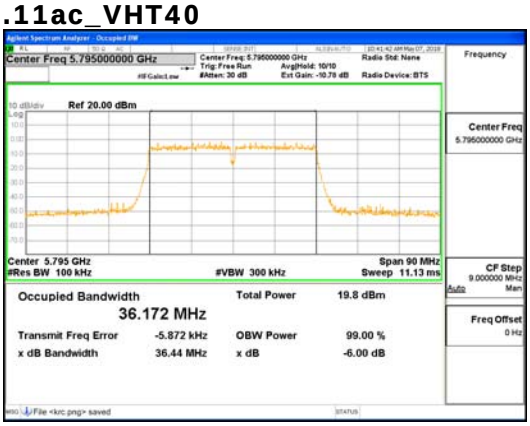




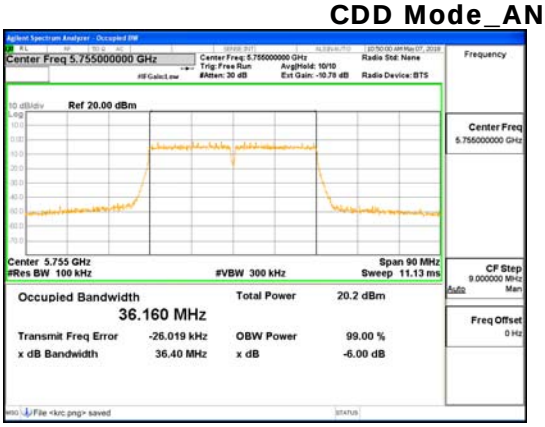
CDD Mode_ANT3_802.11n_HT40

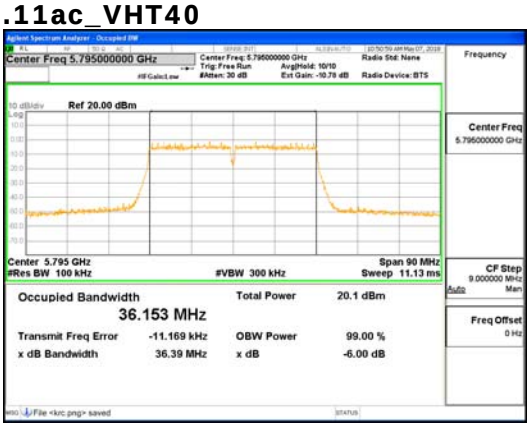
CDD Mode_ANT0_802.11ac_VHT40





CDD Mode_ANT1_802.11ac_VHT40

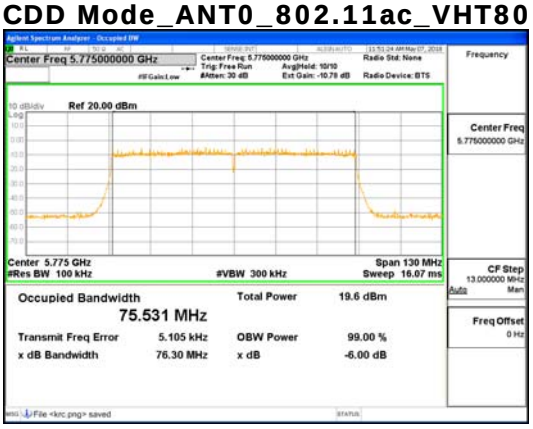




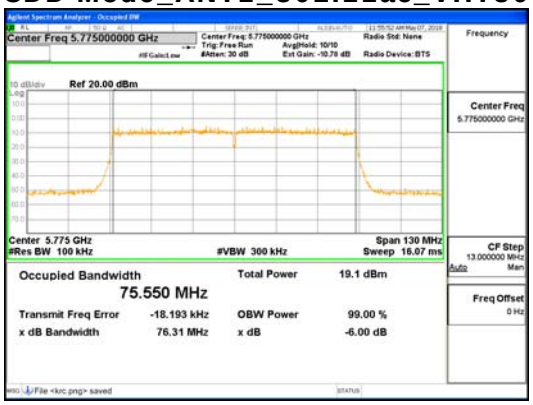
CDD Mode_ANT2_802.11ac_VHT40

CDD Mode_ANT3_802.11ac_VHT40

CDD Mode_ANT0_802.11ac_VHT80



CDD Mode_ANT1_802.11ac_VHT80



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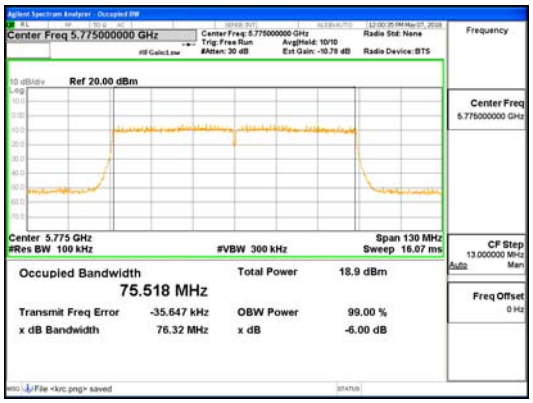


CDD Mode_ANT3_802.11ac_VHT80

4.2 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 ≥ 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:

CDD Mode_ANT0

	26 dB Bandwidth and 99% Bandwidth (MHz)					
Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99%	26 dB	99%	26 dB	99%
5 180 MHz	22.50	18.21	22.61	19.03	22.57	19.00
5 200 MHz	22.43	18.07	23.12	19.04	22.57	18.98
5 240 MHz	22.58	18.15	22.62	19.09	22.81	19.04
5 745 MHz	21.91	17.49	21.99	18.42	22.37	18.40
5 785 MHz	21.79	17.41	22.09	18.49	22.03	18.45
5 825 MHz	21.82	17.44	22.00	18.49	22.09	18.47
Measurement uncertainty	± 0.1 MHz					

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.95	36.71	40.89	36.66
5 230 MHz	40.54	36.68	41.08	36.67
5 755 MHz	40.02	36.35	39.94	36.68
5 795 MHz	40.07	36.38	39.99	36.37
Measurement uncertainty	± 0.1 MHz			

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	81.56	75.79
5 775 MHz	81.11	75.69
Measurement uncertainty	± 0.1 MHz	

CDD Mode_ANT1

	26 dB Bandwidth and 99% Bandwidth (MHz)					
Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99%	26 dB	99%	26 dB	99%
5 180 MHz	26.48	18.33	22.84	19.21	24.23	19.17
5 200 MHz	27.22	18.34	22.84	19.15	22.97	19.20
5 240 MHz	26.04	18.28	22.99	19.11	22.99	19.21
5 745 MHz	21.88	17.41	22.07	18.46	22.16	18.45
5 785 MHz	21.88	17.50	22.27	18.42	22.08	18.45
5 825 MHz	21.77	17.48	22.26	18.45	22.09	18.48
Measurement uncertainty	± 0.1 MHz					

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.73	36.76	41.00	36.75
5 230 MHz	40.92	36.72	40.98	36.75
5 755 MHz	39.98	36.34	40.17	36.36
5 795 MHz	40.24	36.39	40.07	36.38
Measurement uncertainty	± 0.1 MHz			

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	81.58	75.87
5 775 MHz	80.64	75.66
Measurement uncertainty	± 0.1 MHz	

CDD Mode_ANT2

	26 dB Bandwidth and 99% Bandwidth (MHz)					
Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99%	26 dB	99%	26 dB	99%
5 180 MHz	22.70	18.23	22.64	19.07	22.61	19.06
5 200 MHz	22.43	18.11	22.76	19.01	22.56	19.04
5 240 MHz	22.60	18.14	22.44	19.03	22.54	19.00
5 745 MHz	21.79	17.44	22.24	18.48	21.98	18.42
5 785 MHz	21.97	17.44	22.02	18.50	22.13	18.45
5 825 MHz	21.95	17.46	22.33	18.43	21.96	18.44
Measurement uncertainty	± 0.1 MHz					

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.83	36.64	40.70	36.63
5 230 MHz	40.60	36.71	40.70	36.68
5 755 MHz	40.20	36.37	40.12	36.35
5 795 MHz	40.00	36.38	40.17	36.41
Measurement uncertainty	± 0.1 MHz			

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	81.89	75.82
5 775 MHz	80.92	75.67
Measurement uncertainty	± 0.1 MHz	

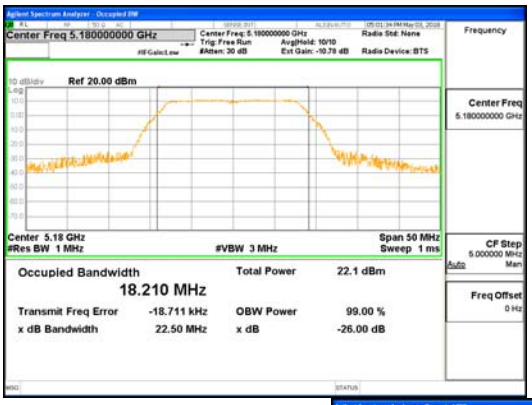
CDD Mode_ANT3

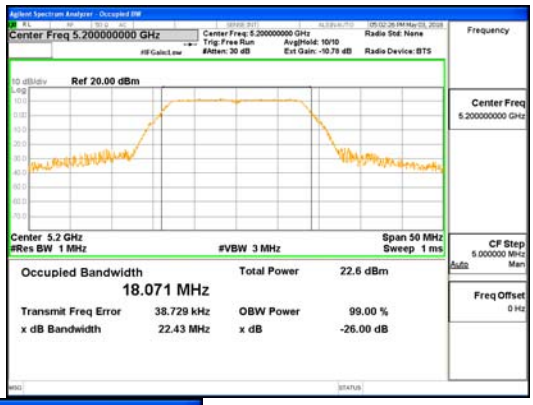
	26 dB Bandwidth and 99% Bandwidth (MHz)					
Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99%	26 dB	99%	26 dB	99%
5 180 MHz	22.81	18.31	22.86	19.16	22.79	19.13
5 200 MHz	22.69	18.26	22.85	19.01	22.93	19.12
5 240 MHz	22.68	18.22	22.92	19.14	22.67	19.05
5 745 MHz	21.74	17.48	22.10	18.47	22.05	18.47
5 785 MHz	21.92	17.45	22.10	18.44	22.14	18.46
5 825 MHz	21.74	17.48	22.13	18.41	22.07	18.47
Measurement uncertainty	± 0.1 MHz					

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	40.77	36.74	40.78	36.70
5 230 MHz	40.84	36.82	40.68	36.69
5 755 MHz	40.13	36.41	40.04	36.43
5 795 MHz	40.02	36.41	39.90	36.34
Measurement uncertainty	± 0.1 MHz			

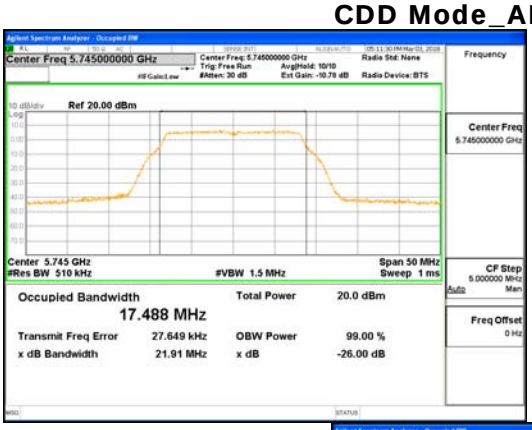
	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	81.83	75.83
5 775 MHz	81.33	75.69
Measurement uncertainty	± 0.1 MHz	

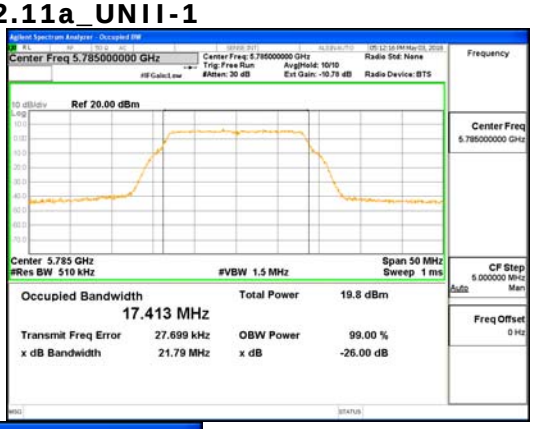
See next pages for actual measured spectrum plots.



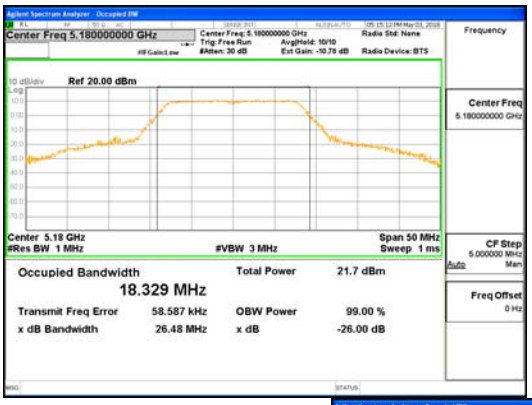


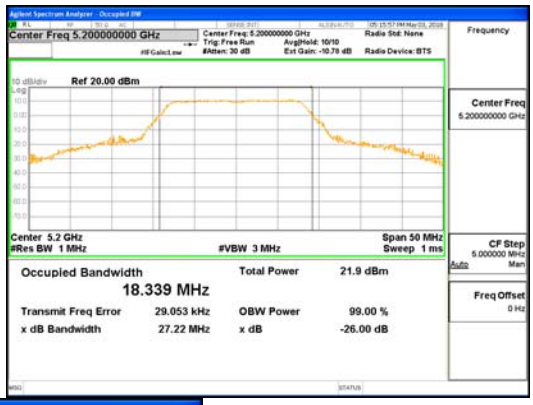
CDD Mode_ANT0_802.11a_UNII-1





CDD Mode_ANT0_802.11a_UNII-3





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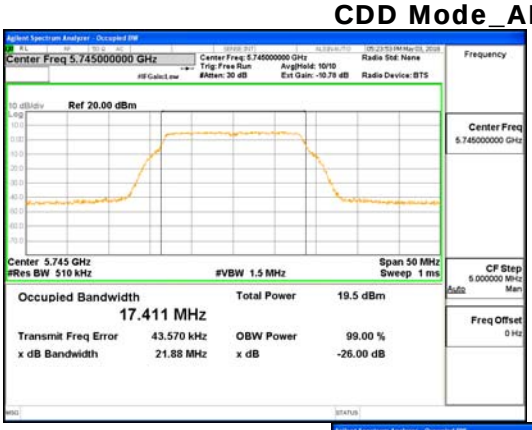

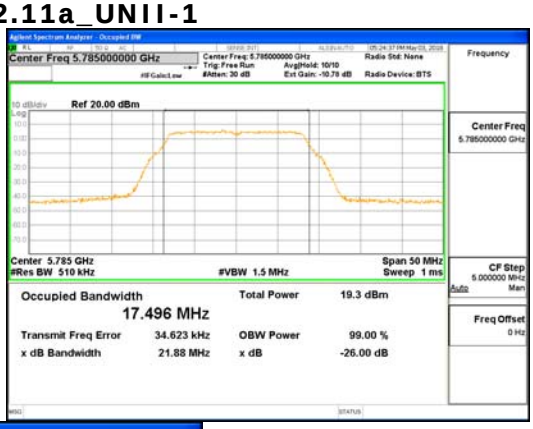

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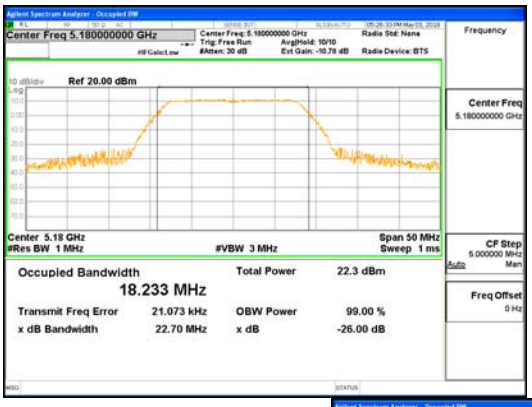

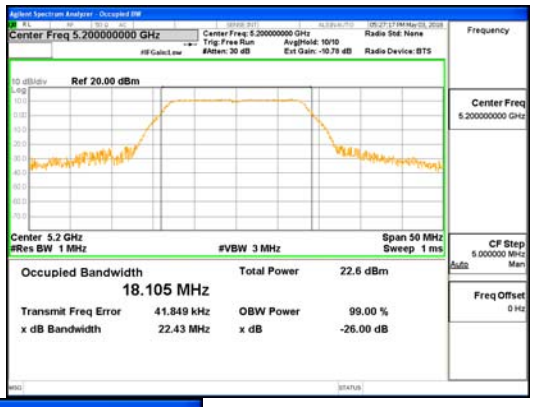

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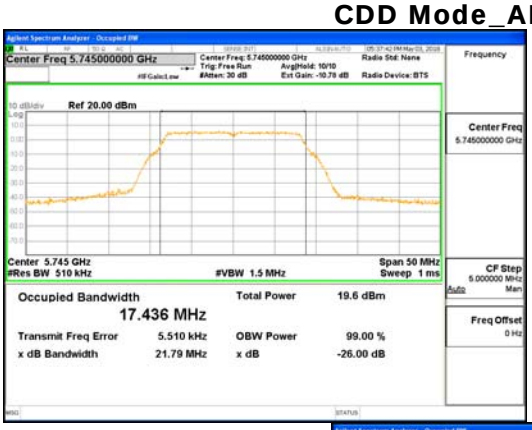

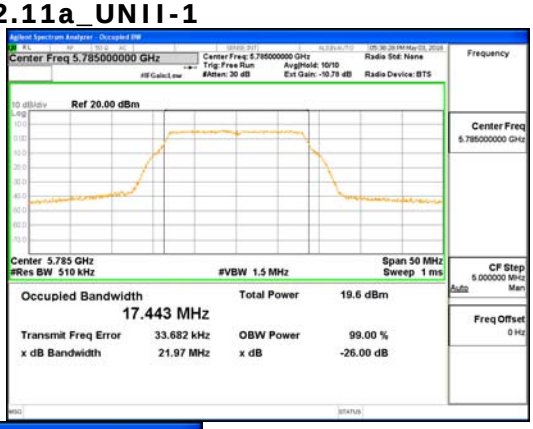

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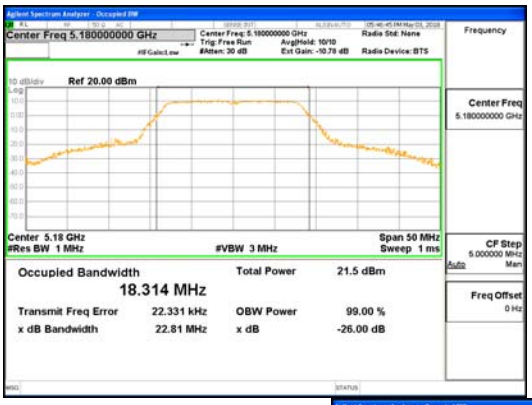

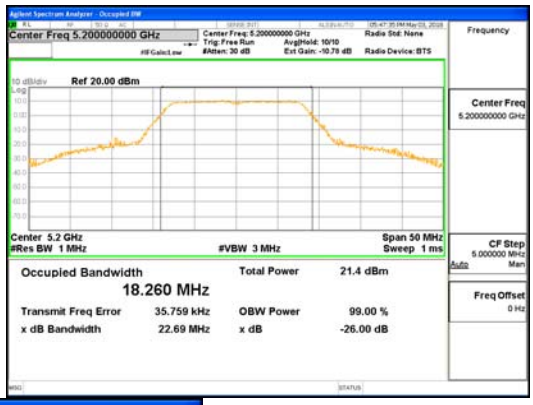

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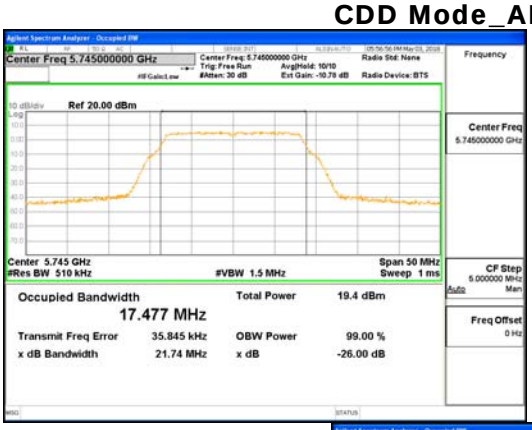
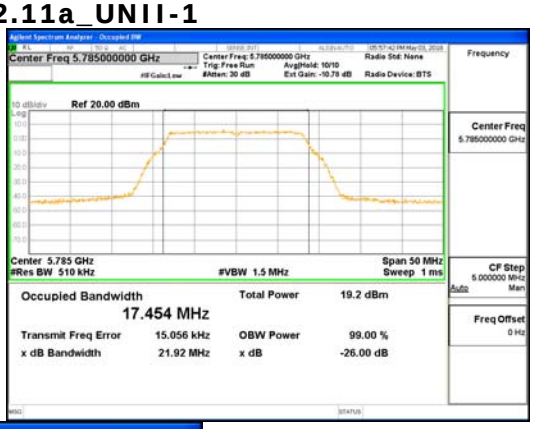
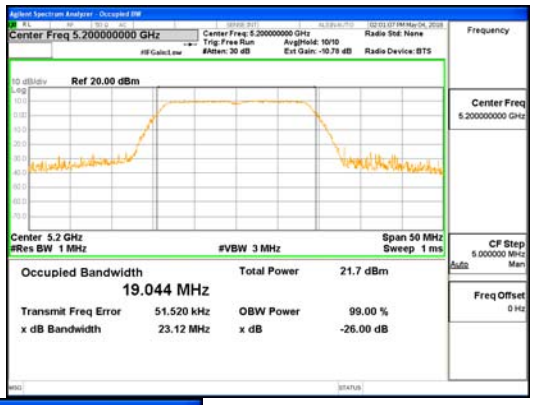
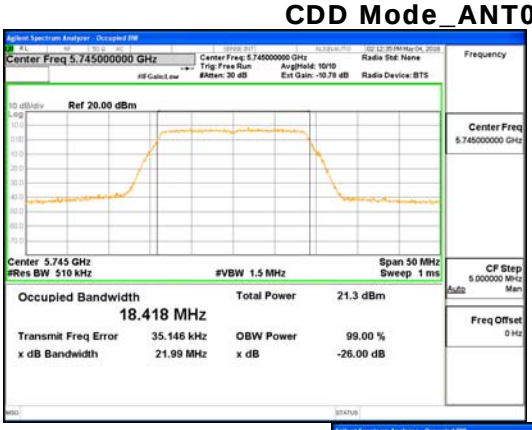


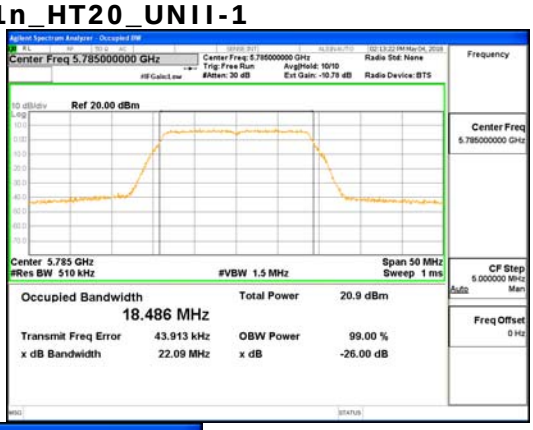


CDD Mode_ANT3_802.11a_UNII-3



CDD Mode_ANT0_802.11n_HT20_UNII-1





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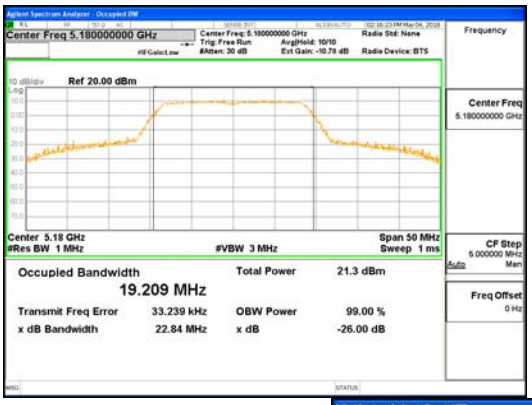

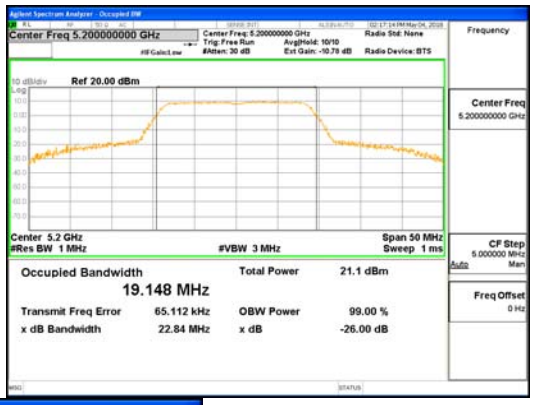

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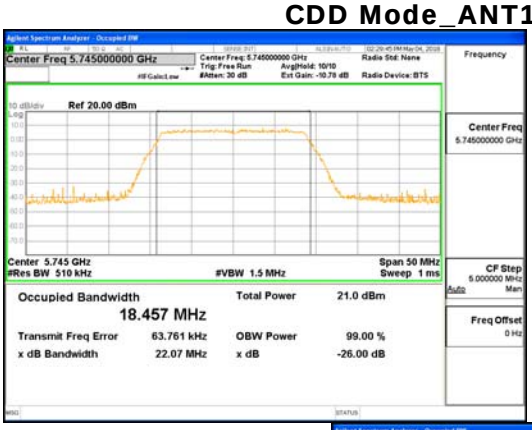

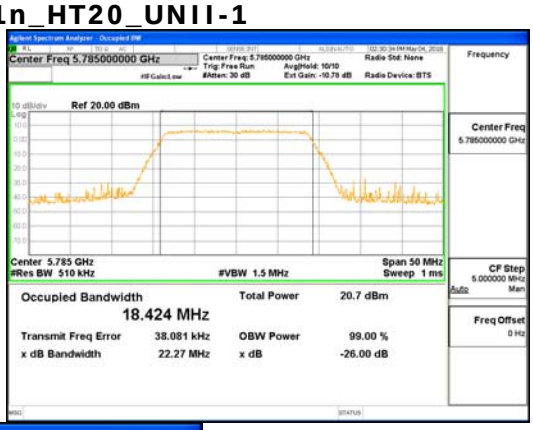

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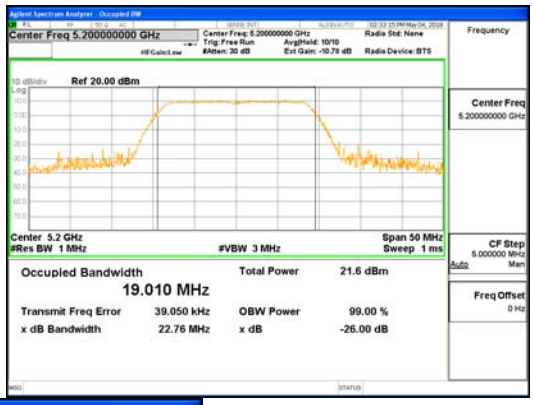

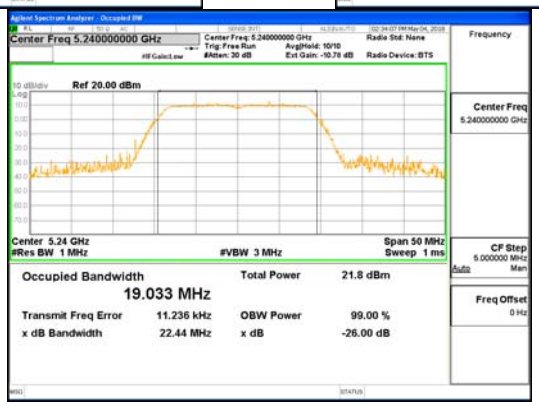

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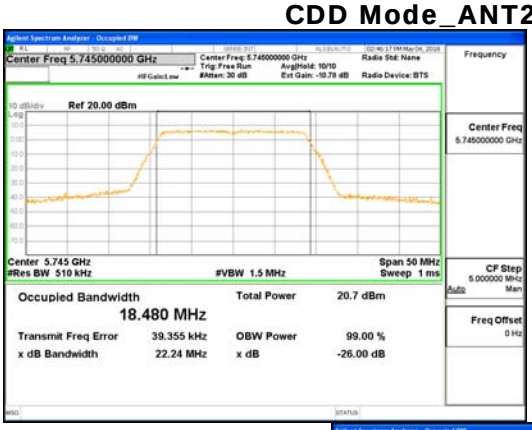

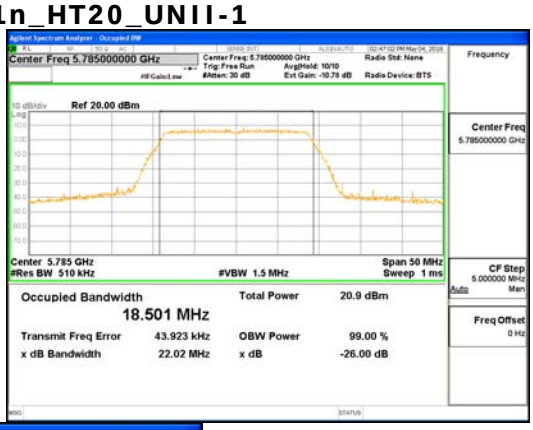

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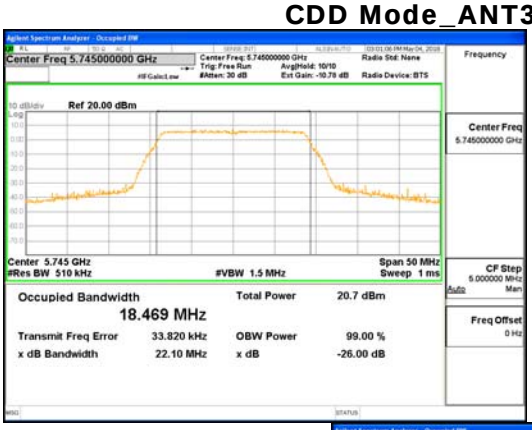
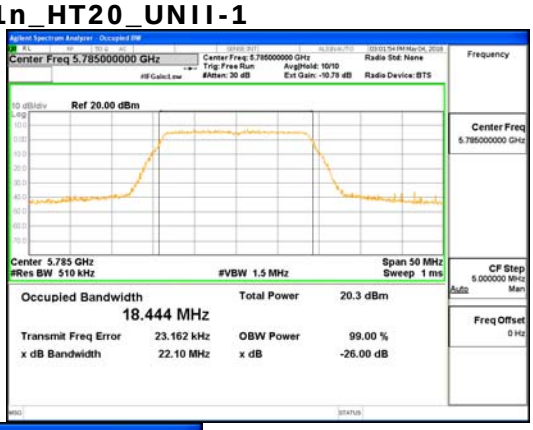
CDD Mode_ANT3_802.11n_HT20_UNII-1





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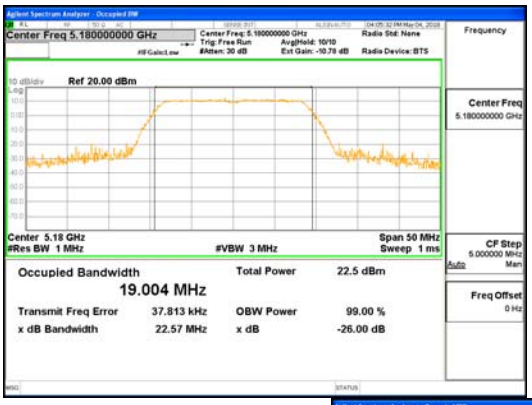
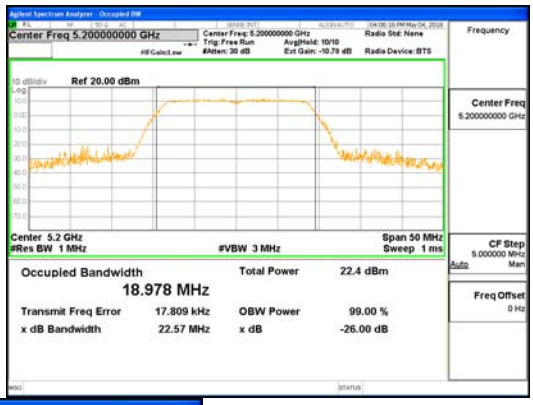
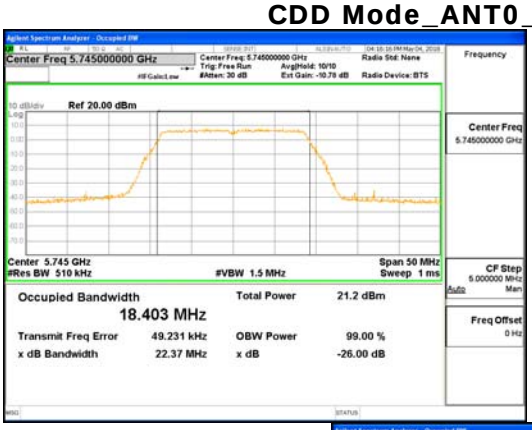
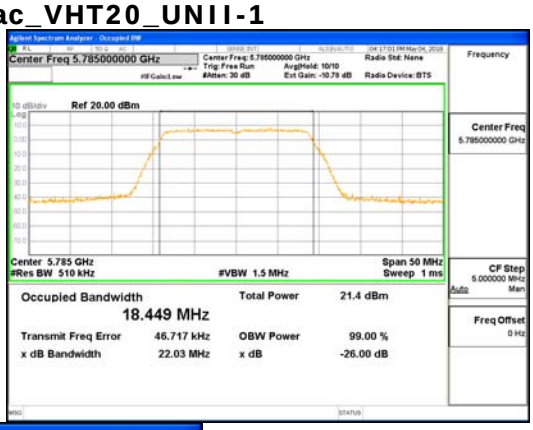




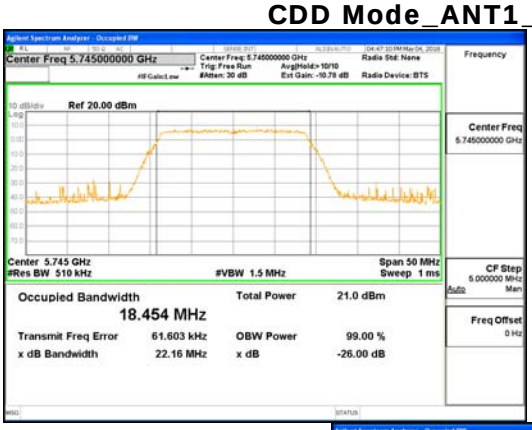
CDD Mode_ANT0_802.11ac_VHT20_UNII-1

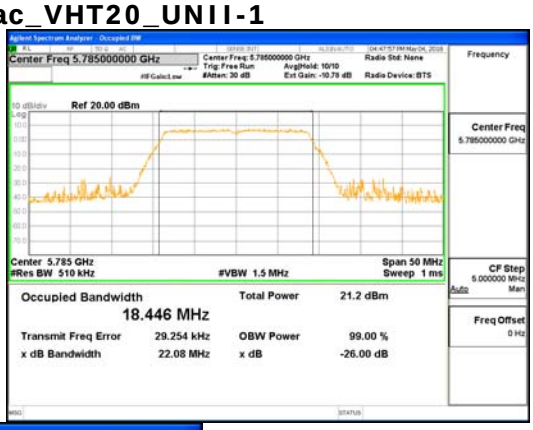




CDD Mode_ANT0_802.11ac_VHT20_UNII-3

CDD Mode_ANT1_802.11ac_VHT20_UNII-1





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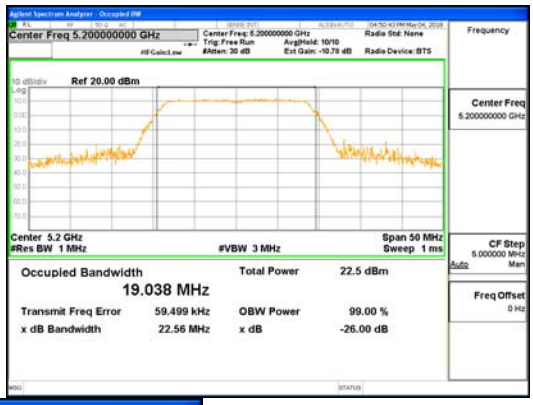

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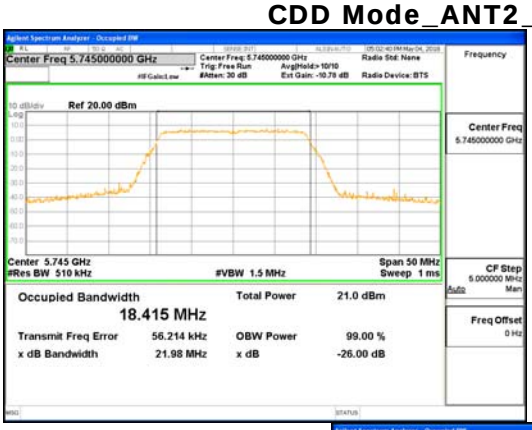

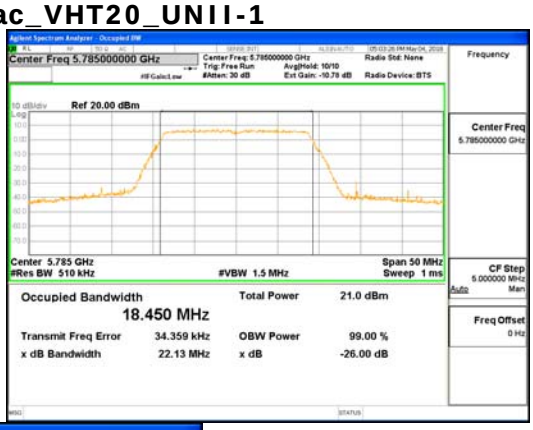

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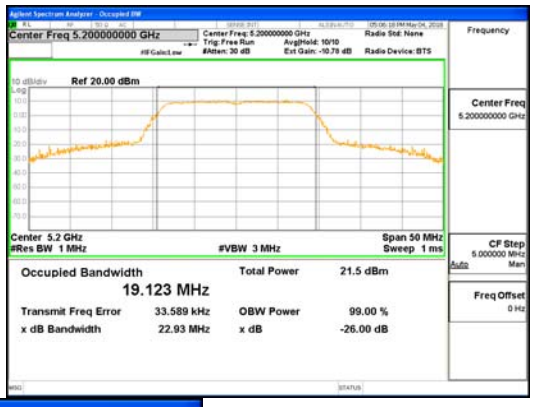
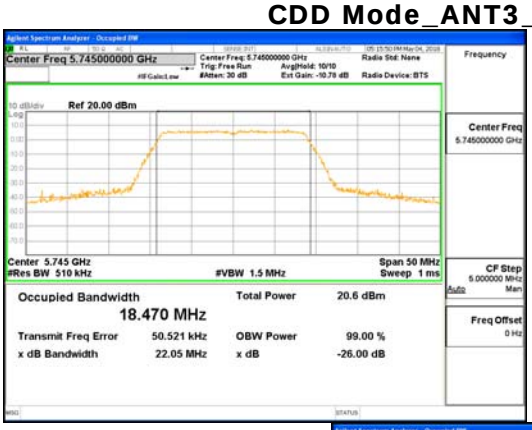
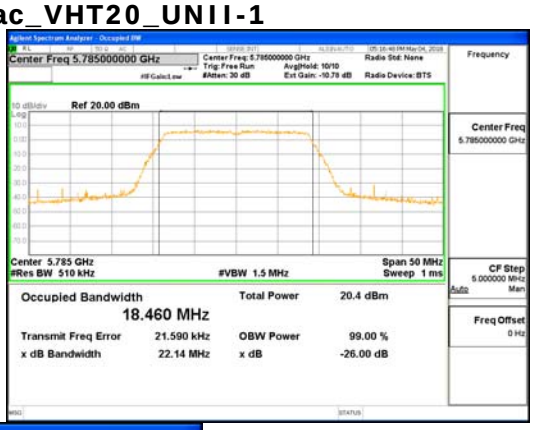


CDD Mode_ANT3_802.11ac_VHT20_UNII-1





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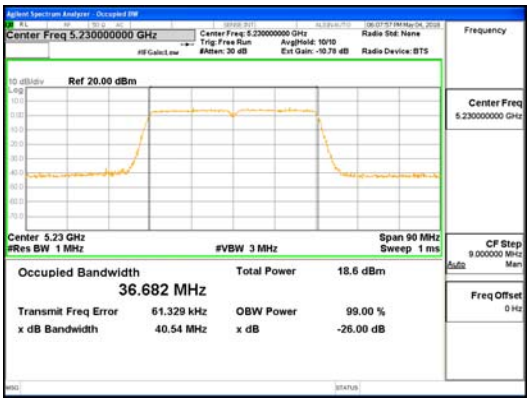
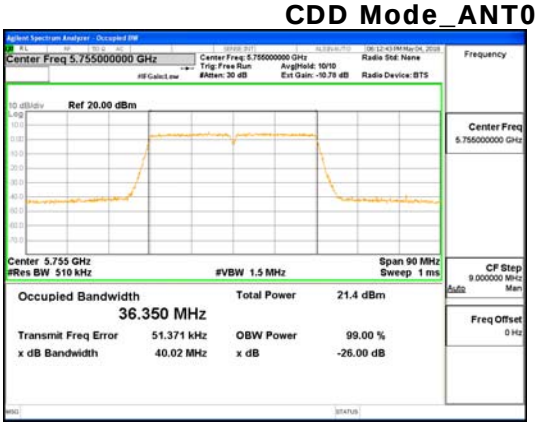
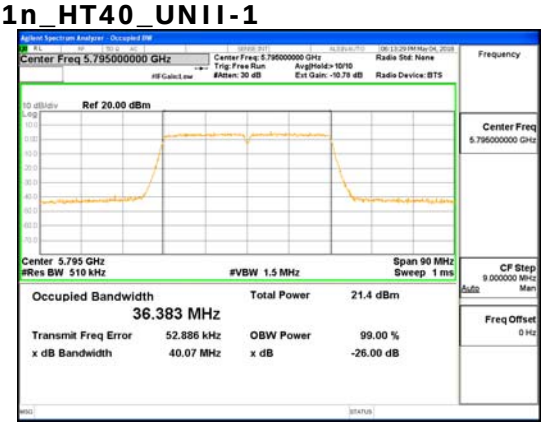


CDD Mode_ANT0_802.11n_HT40_UNII-1





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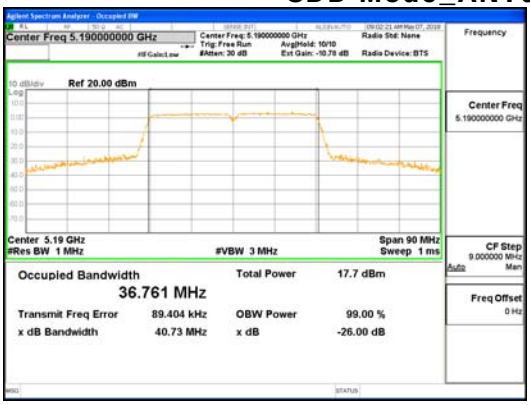
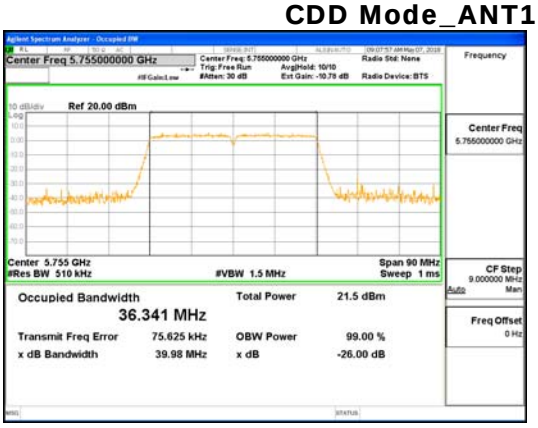
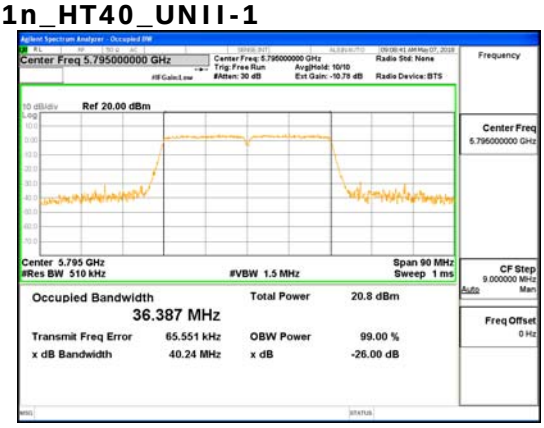


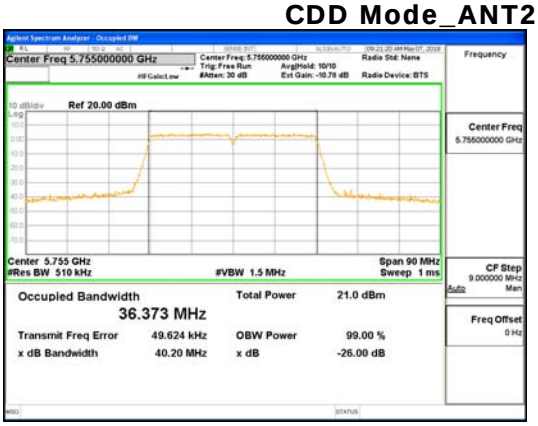
CDD Mode_ANT1_802.11n_HT40_UNII-1

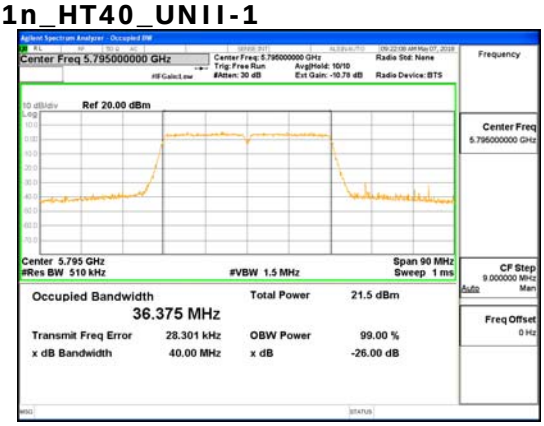




CDD Mode_ANT1_802.11n_HT40_UNII-3

CDD Mode_ANT2_802.11n_HT40_UNII-1





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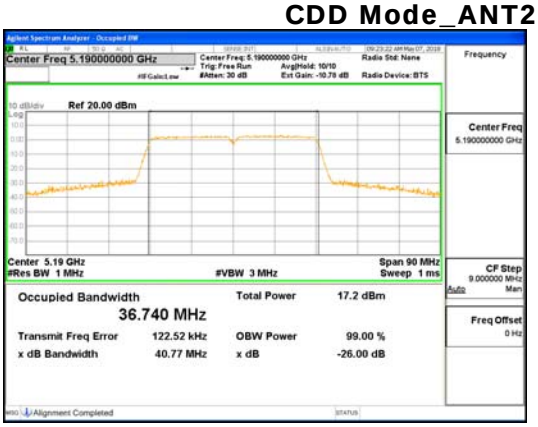
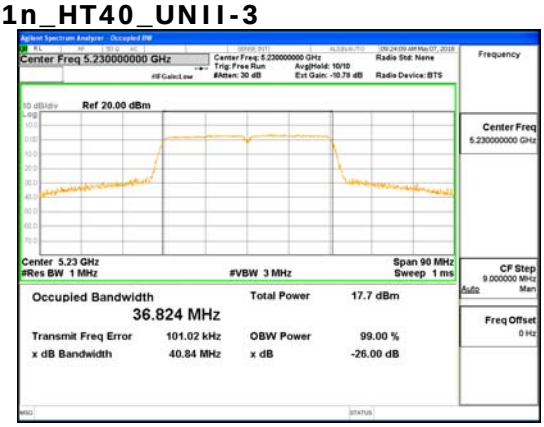
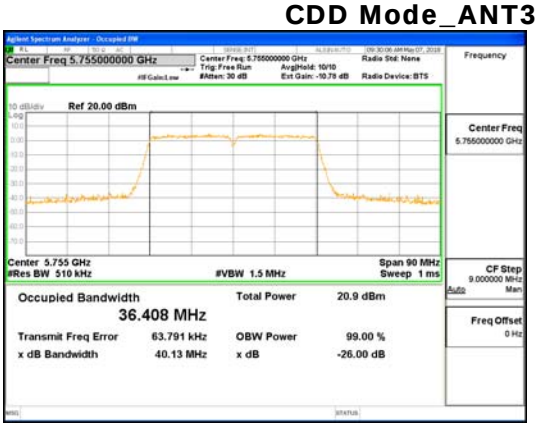
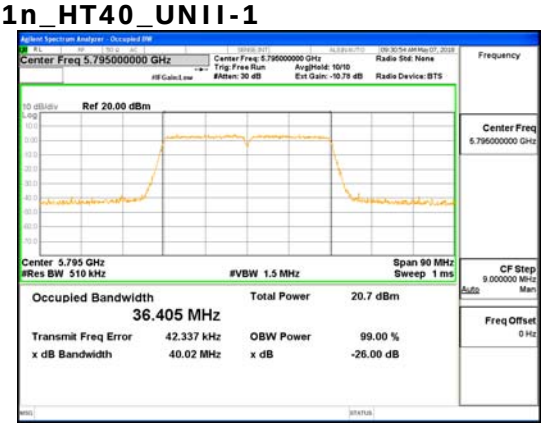




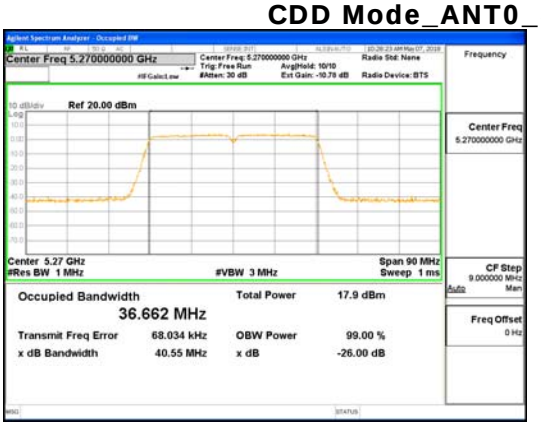
CDD Mode_ANT3_802.11n_HT40_UNII-1

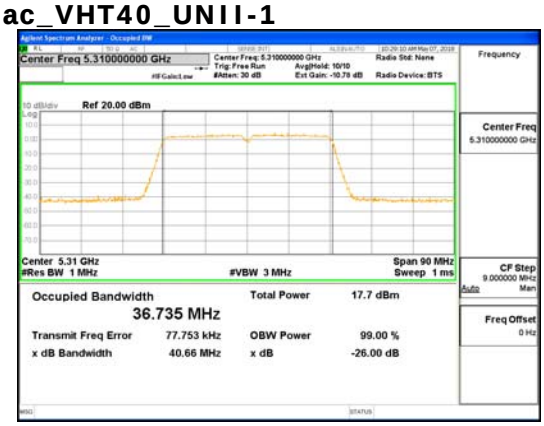




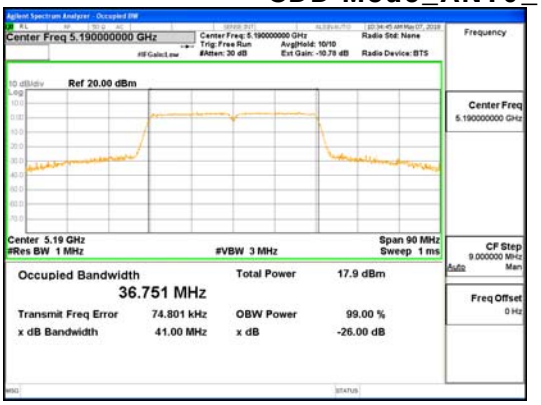
CDD Mode_ANT3_802.11n_HT40_UNII-3

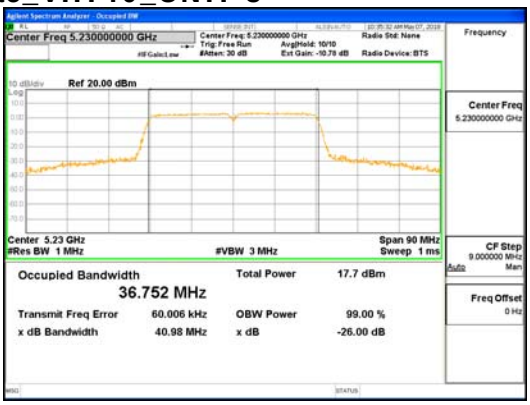
CDD Mode_ANT0_802.11ac_VHT40_UNII-1



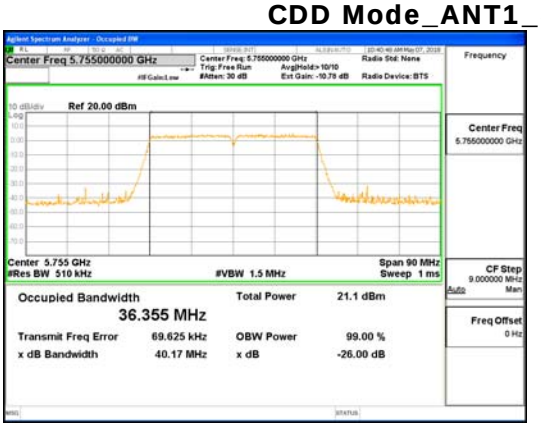


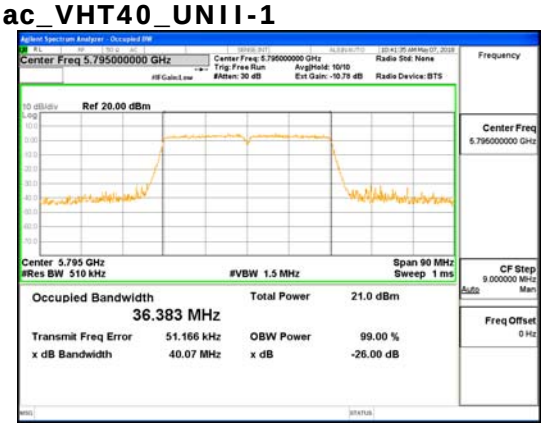
CDD Mode_ANT0_802.11ac_VHT40_UNII-3





CDD Mode_ANT1_802.11ac_VHT40_UNII-1





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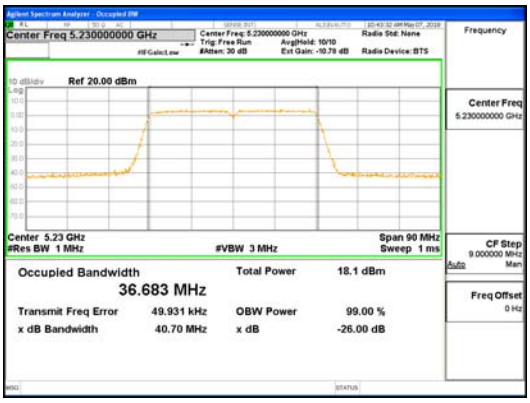

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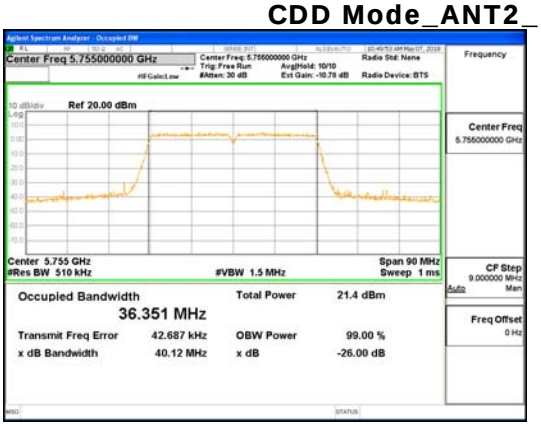
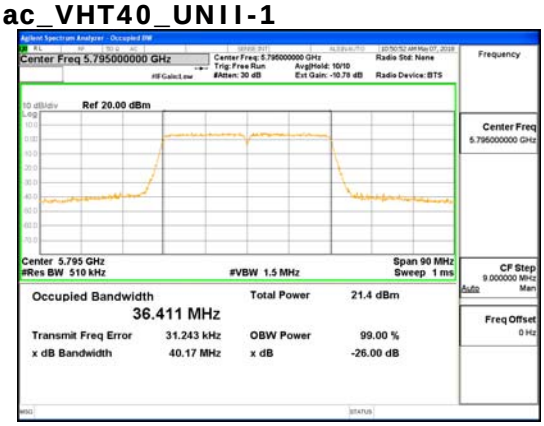
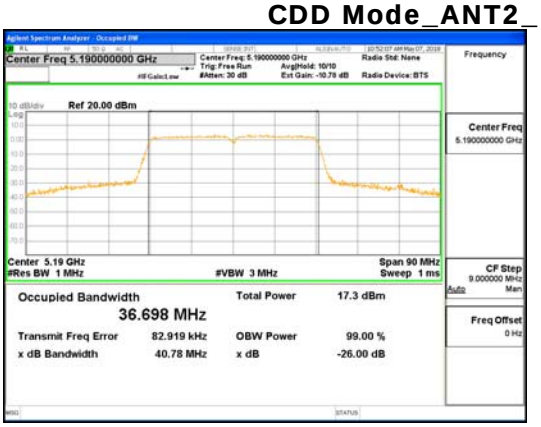
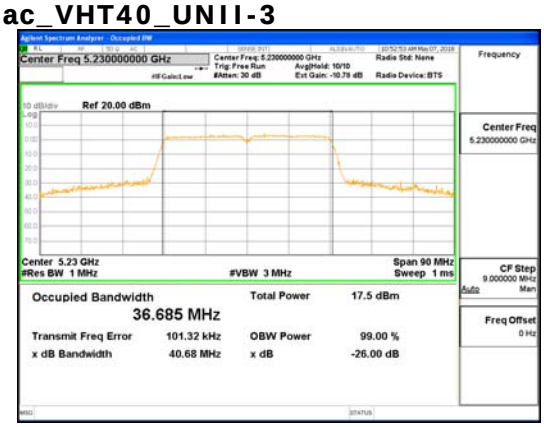


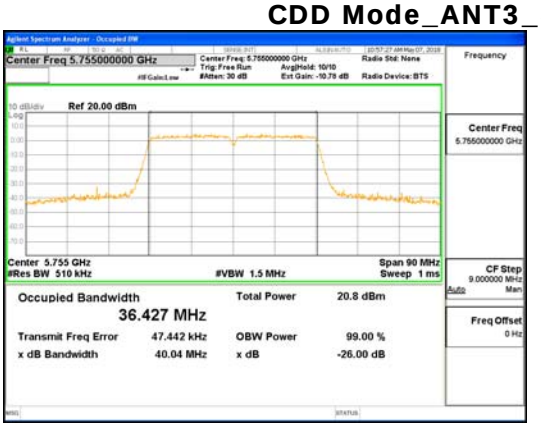


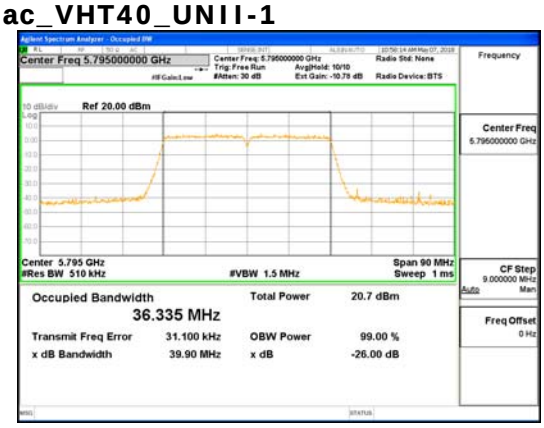
CDD Mode_ANT2_802.11ac_VHT40_UNII-3



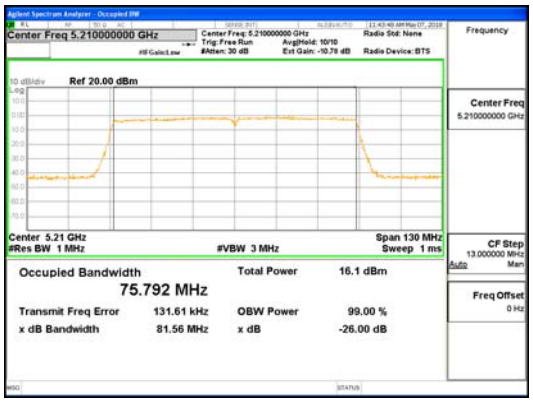


CDD Mode_ANT3_802.11ac_VHT40_UNII-1

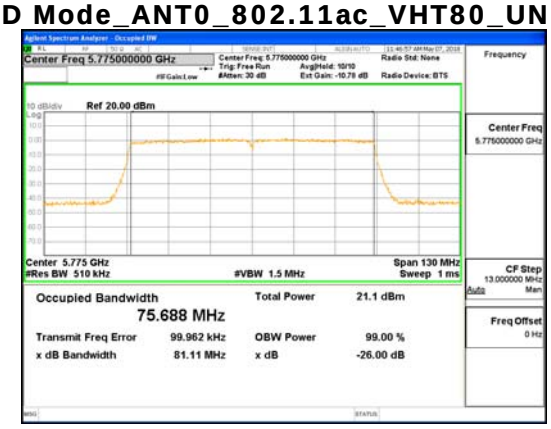




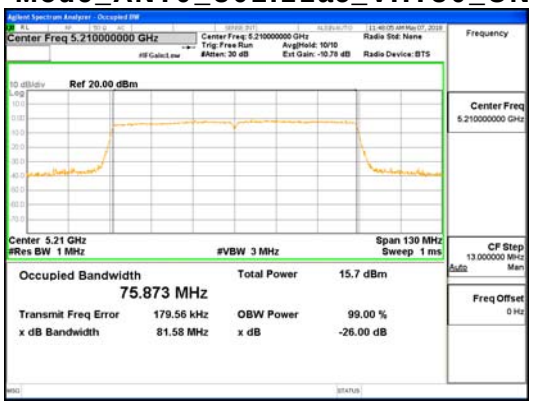
CDD Mode_ANT2_802.11ac_VHT40_UNII-3



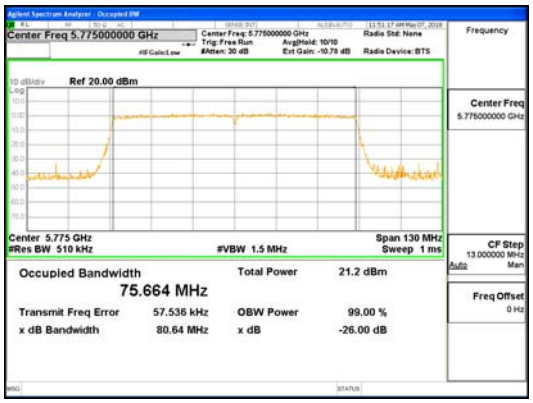
CDD Mode_ANT0_802.11ac_VHT80_UNII-1



CDD Mode_ANT0_802.11ac_VHT80_UNII-3

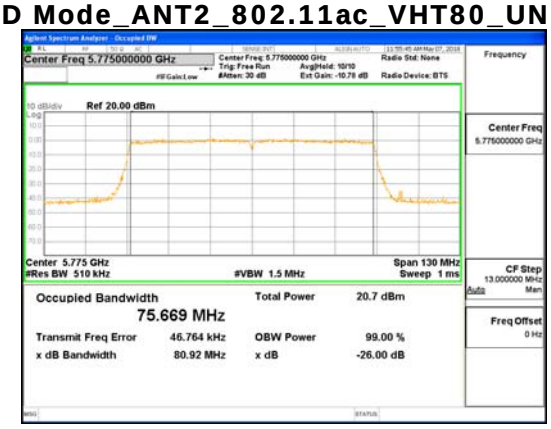


CDD Mode_ANT1_802.11ac_VHT80_UNII-1



CDD Mode_ANT1_802.11ac_VHT80_UNII-3

CDD Mode_ANT2_802.11ac_VHT80_UNII-1



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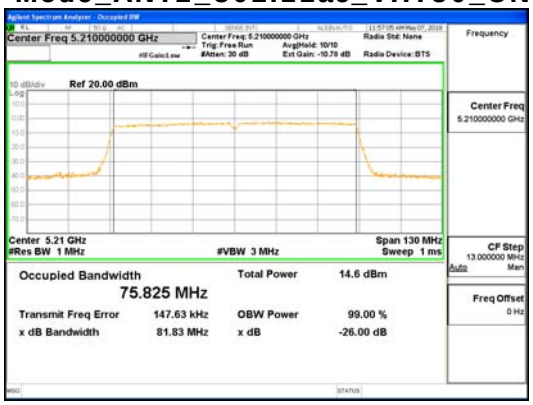
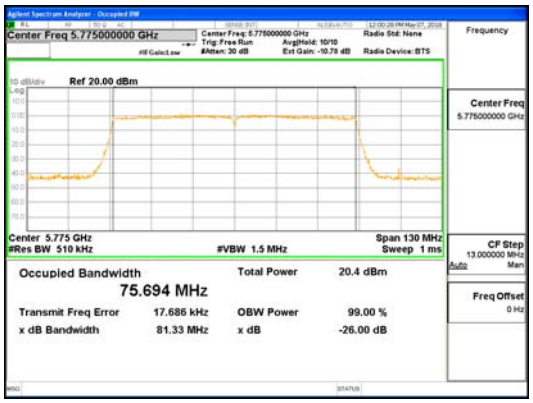


CDD Mode_ANT3_802.11ac_VHT80_UNII-1



CDD Mode_ANT3_802.11ac_VHT80_UNII-3