

(intel)

TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel® Dual Band Wireless-AC 8265
Model Name	8265D2W
Serial Number	TA#: J10070-002 WF MAC: 34:13:E8:53:75:37 / 34:13:E8:53:75:05 / 34:13:E8:53:75:00 BT MAC: 34:13:E8:53:75:3B / 34:13:E8:53:75:09 / 34:13:E8:53:75:04 (see section 4) FCC ID: PD98265D2
FCC ID / IC ID	IC ID: 1000M-8265D2
Antenna type	SkyCross WIMAX/WLAN Reference Antenna
Hardware/Software Version	HW: WsP1216 cfg15.2SD Test SW: DRTU 1.8.7-03036 Op SW: 19.0.0.3
Date of Sample Receipt	2016-04-27
Date of Test Start/End	2016-05-10 / 2016-06-09
Features	802.11 a/b/g/n/ac Wireless LAN + BT 4.2 (see section 5)
Applicant	Intel Mobile Communications
Address	100 Center Point Circle, Suite 200 Columbia, South Carolina 29210 USA
Contact Person	Steven Hackett
Telephone/Fax/ Email	steven.c.hackett@intel.com
Reference Standards	FCC CFR Title 47 Part 15E RSS-247 issue 1, RSS-Gen issue 4 (see section 1)
Test Deve to we have	
Test Report number	160321-02.TR02
Revision Control	Rev.00

The test results relate only to the samples tested. The test report shall not be reproduced in full, without written approval of the laboratory.

Issued by

Reviewed by

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1. Standards, reference documents and applicable test methods

- 1. FCC 47 CFR part 15 Subpart E Unlicensed National Information Infrastructure Devices.
- 2. FCC 47 CFR part 15 Subpart C §15.209 Radiated emission limits; general requirements.
- 3. FCC OET KDB 789033 D02 General UNII Test Procedures New Rules Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices.
- 4. FCC OET KDB 644545 D03 Guidance for IEEE 802.11ac v01 GUIDANCE FOR IEEE Std 802.11ac[™] DEVICES EMISSION TESTING.
- 5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
- 6. RSS-247 Issue 1 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.
- 7. RSS-Gen Issue 4 General Requirements for Compliance of Radio Apparatus.

2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by IC, with IC Assigned Code 1000Y.
- Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
- Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

3. Environmental Conditions

✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22°C ± 4°C
Humidity	50% ± 20%



4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note	
	160321-02.S02	WiFi/BT Module	8265D2W	WF MAC: 34:13:E8:53:75:00, BT MAC: 34:13:E8:53:75:04	2016-04-27		
	160321-02.S12	Socket	D2W	8882-043	2016-04-27	Used for	
#01	160107-01.S13	Extender board	PCB00495	4955013-026	2016-01-07	conducted tests	
	15051101.S11	AC/DC Adapter	SPU60-102	07990499 1249	2015-05-12		
	15040201.S15	Laptop	DELL Latitude	9R8YN32	2015-04-30		
	160321-02.S03	WiFi/BT Module	8265D2W	WF MAC: 34:13:E8:53:75:05 BT MAC: 34:13:E8:53:75:09	2016-04-27	Used for radiated tests (from 30MHz to	
#02	160321-02.S13	Socket	D2W	8882-031	2016-04-27	1GHz and	
	160107-01.S11	Extender board	PC00495	4955013-097	2016-01-07	26.5GHz to 40GHz)	
	160107-01.S28	Laptop	Latitude E5440	BJSYN32	2016-01-15		
	160321-02.S01	WiFi/BT Module	8265D2W	WF MAC: 34:13:E8:53:75:37 BT MAC: 34:13:E8:53:75:3B	2016-04-27	Used for radiated tests	
#03	160321-02.S11	Socket	D2W	8880-017	2016-04-27	(from 1GHz to	
	160107-01.S12	Extender board	PC00495	4955013-034	2016-01-07	26.5GHz)	
	15051101.S09	Laptop	Dell E5440	9FSYN32	2015-05-12		

NA: Not Applicable

5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

802.11b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
802.11a/n/ac	5.2GHz (5150.0 – 5250.0 MHz)
	5.3GHz (5250.0 – 5350.0 MHz)
	5.6GHz (5470.0 – 5725.0 MHz)
	5.8GHz (5725.0 – 5850.0 MHz)
BDR/EDR/BLE 4.2	2.4GHz (2400.0 – 2483.5 MHz)

6. Remarks and comments

N/A



7. Test Verdicts summary

7.1. 802.11 a/n/ac – U-NII-2C

FCC part	RSS part	Test name	Verdict
15.407 (a) (2)	RSS-247 Clause 6.2.3 (1)	Power Limits. Maximum output power	Р
15.407 (a) (2)	RSS-247 Clause 6.2.3 (1)	Peak power spectral density	Р
15.407 (b) (3) 15.209	RSS-247 Clause 6.2.3 (2)	Undesirable emissions limits: Band Edge (conducted)	Р
15.407 (b) (3) 15.209	RSS-247 Clause 6.2.3 (2)	Undesirable emissions limits (radiated)	Р

P: Pass F: Fail NM: Not Measured NA: Not Applicable

8. Document Revision History

Revision #	Date	Modified by	Details
Rev. 00	2016-06-14	G.Gerbaud M. Lefebvre F. Sauvan	First Issue



Annex A.Test & System Description

A.1 Test Conditions

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 (20 MHz channel bandwidth), 802.11n40 (40MHz channel bandwidth) and 802.11ac80 (80MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The conducted RF output power at chain A was adjusted according to the client's supplied Target values (see following table) using the Intel DRTU tool and measuring the power by using a spectrum analyzer with the channel integration method according to point II) E) 2) e) (Method SA-2 Alternative) of Guidance 789033 D02.

Measured values for adjustment were within -0.25 dB/+0.25 dB from the declared Target values.

U-NII-2C					Conducted F	Power, Target	Value (dBm)
Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	SISO Chain A	SISO Chain B	MIMO at both ports A and B
			100	5500	18	17	N/A
802.11a	20	6Mbps	120	5600	20.5	20.5	N/A
002.11a	20	olviops	136	5680	20	18	N/A
			140	5700	17	16.5	N/A
	20		100	5500	16.5	17.5	16.5
		HT0	120	5600	20.5	20.5	19
	20	HT8*	136	5680	19.5	18	17.5
802.11n			140	5700	16	16	14
			102F	5510	17	16.5	12
	40 HT8	HT0	118F	5590	21	20.5	20.5
		HIS	134F	5670	17.5	17.5	16.5
902 1100	00		106ac80	5530	13.5	15	10.5
802.11ac	00	80 VHT0	122ac80	5610	17.5	19	17.5

Overlapped channels between UNII-2C and UNII-3					Conducted F	Power, Target	Value (dBm)
Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	SISO Chain A	SISO Chain B	MIMO at both ports A and B
802.11n	20	HT0 HT8*	144	5720	20.0	20.0	19.5
002.1111	40	HT0 HT8*	142F	5710	20.5	20.0	19.5
802.11ac	80	VHT0	138ac80	5690	20.0	19.5	19.0

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

802.11a → 6Mbps 802.11n20 and 802.11n40 (SISO) → HT0 802.11n20 and 802.11n40 (MIMO) → HT8 802.11ac80 (SISO) → VHT0 802.11ac80 (MIMO) → VHT0

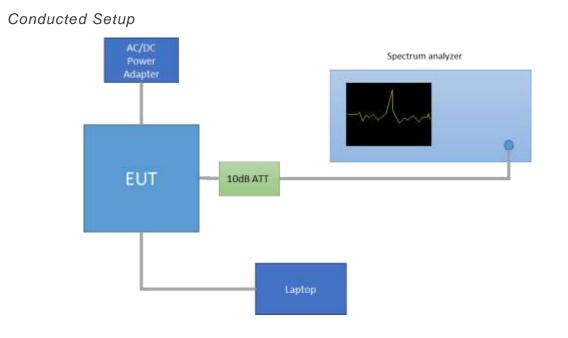
Alternative channels to the lowest and highest channels per band have been also tested for Band Edge compliance.



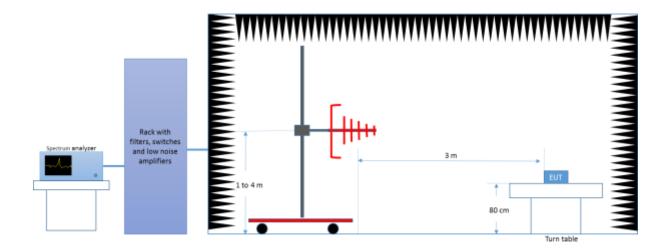
A.2 Measurement system

Measurements were performed using the following setups, made in accordance to the general provisions of FCC KDB 789033 D02 General UNII Test Procedures.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.

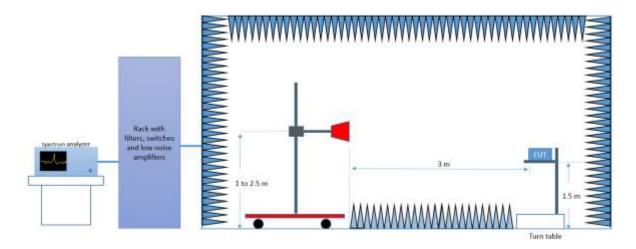


Radiated Setup < 1GHz

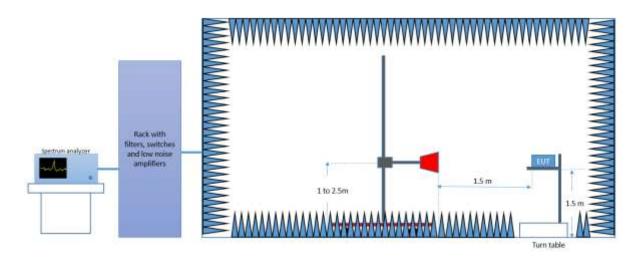




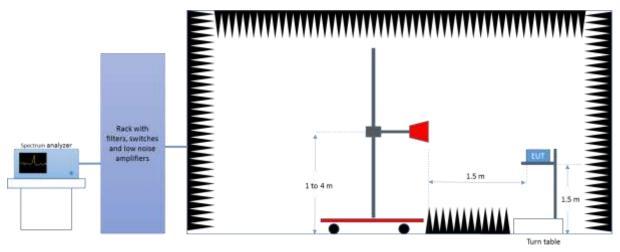
Radiated Setup 1 GHz - 18 GHz



Radiated Setup 18 GHz - 26.5 GHz



Radiated Setup > 26.5 GHz



A.3 Test Equipment List

Conducted Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0310	Spectrum analyzer	FSV40	101425	Rohde & Schwarz	2015-03-25	2017-03-25

Radiated Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2016-04-15	2018-04-15
0258	Spectrum analyzer	FSV30	101318	Rohde & Schwarz	2016-04-27	2018-04-27
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2015-12-11	2017-12-11
0138	Horn antenna 1 GHz – 6.4 GHz	3117	00157734	ETS Lindgren	2016-03-14	2018-03-14
0343	Horn Antenna 6.4 GHz – 18 GHz	3117-PA	00201542	ETS Lindgren	2015-07-16	2017-07-16
0334	Horn Antenna 10 GHz – 40 GHz	3116C	00169308	ETS Lindgren	2015-07-15	2017-07-15
0139	Horn Antenna 18 GHz - 26.5 GHz	114514	00167100	ETS Lindgren	2014-08-14	2016-08-14
0140	Horn Antenna 26.5 GHz - 40 GHz	120722	00169638	ETS Lindgren	2016-03-16	2018-03-16
0135	Semi Anechoic chamber	FACT 3	5720	ETS Lindgren	2016-04-28	2018-04-28
0337	Full Anechoic chamber	RFD_FA_100	5996	ETS Lindgren	2016-04-28	2018-04-28
0329	Measurement Software	EMC32	1300.7027.00 (100401)	Rohde & Schwarz	N/A	N/A
N/A	Measurement Software	EMC32	01210965000001 3B (009977)	Rohde & Schwarz	N/A	N/A

A.4 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [±dB]
Conducted Power	±1.0
Conducted Spurious Emission	±2.9
Radiated tests <1GHz	±3.8
Radiated tests 1GHz - 40 GHz	±4.7

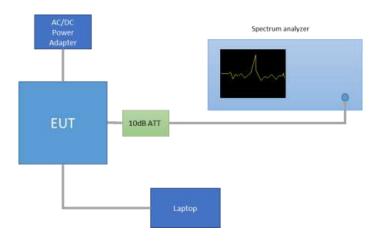


Annex B.Test Results U-NII-2C

B.1 26dB & 99% Bandwidth

Test procedure:

The setup below was used to measure the 26dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



For the overlapped channels between U-NII-2C and U-NII-3 bands, and according to FCC KDB 644545 D03, the boundary frequency between the bands is used as one edge for defining the portion of the 26dB BW that falls within a particular U-NII band. This rule is only applicable for the 26dB BW and for those channels marked as overlapped.

Results tables:

U-NII-2C channels:

Mode	Rate	Antenna	Channel	Freq. [MHz]	26dB BW [MHz]	99% BW [MHz]
			100	5500	23.40	16.56
		SISO CHAIN A	120	5600	29.90	18.96
802.11a	6Mbpc		140	5700	23.05	16.56
002.11a	6Mbps		100	5500	23.45	16.56
		SISO CHAIN B	120	5600	36.05	23.68
			140	5700	23.40	16.72
			100	5500	24.90	17.72
		SISO CHAIN A	120	5600	39.30	25.28
	нто		140	5700	23.45	17.68
	піо		100	5500	24.40	17.72
		SISO CHAIN B	120	5600	36.80	25.12
802.11n20			140	5700	23.80	17.68
002. I III20			100	5500	25.20	17.80
		MIMO CHAIN A	120	5600	42.90	28.24
	HT8		140	5700	23.85	17.68
	піо		100	5500	23.65	17.80
		MIMO CHAIN B	120	5600	41.80	29.20
			140	5700	24.35	17.68
			102F	5510	46.08	36.32
		SISO CHAIN A	118F	5590	87.39	56.40
	нто		134F	5670	46.26	36.40
	1110		102F	5510	44.64	36.32
		SISO CHAIN B	118F	5590	83.70	48.64
802.11n40			134F	5670	45.81	36.40
002.11140			102F	5510	45.27	36.32
		MIMO CHAIN A	118F	5590	84.06	52.64
	HT8		134F	5670	45.90	36.32
	1110		102F	5510	43.65	36.16
		MIMO CHAIN B	118F	5590	81.54	50.88
			134F	5670	43.74	36.16
		SISO CHAIN A	106ac80	5530	85.12	75.00
			122ac80	5610	86.83	75.00
		SISO CHAIN B	106ac80	5530	85.12	75.00
802.11ac80	VНТ0		122ac80	5610	86.45	75.12
002.118000	VIIIO		106ac80	5530	84.36	75.00
		MIMO CHAIN A	122ac80	5610	86.26	75.00
			106ac80	5530	84.74	74.88
		MIMO CHAIN B	122ac80	5610	85.69	75.00

Max Value



Overlapped channels between U-NII-2C and U-NII-3

Mode	Rate	Antenna	Channel	Freq. [MHz]	26dB BW UNII-2C [MHz]	99% BW [MHz]
	HT0	SISO CHAIN A			23.67	21.76
802.11n20	пі	SISO CHAIN B	144	5720	22.48	20.96
002.11120	HT8	MIMO CHAIN A	144	5720	24.92	22.20
	пю	MIMO CHAIN B			21.52	21.00
	HT0	SISO CHAIN A			55.99	46.96
802.11n40	пі	SISO CHAIN B	142F	5710	50.33	40.40
002.111140	HT8	MIMO CHAIN A	1426	5710	47.80	37.68
	пю	MIMO CHAIN B			40.87	36.40
		SISO CHAIN A			87.53	75.84
802.11ac80	VHT0	SISO CHAIN B	138ac80	5690	85.44	75.96
002.118000	VHIU	MIMO CHAIN A	1304000	0090	99.31	76.68
		MIMO CHAIN B			82.40	75.48

Max Value

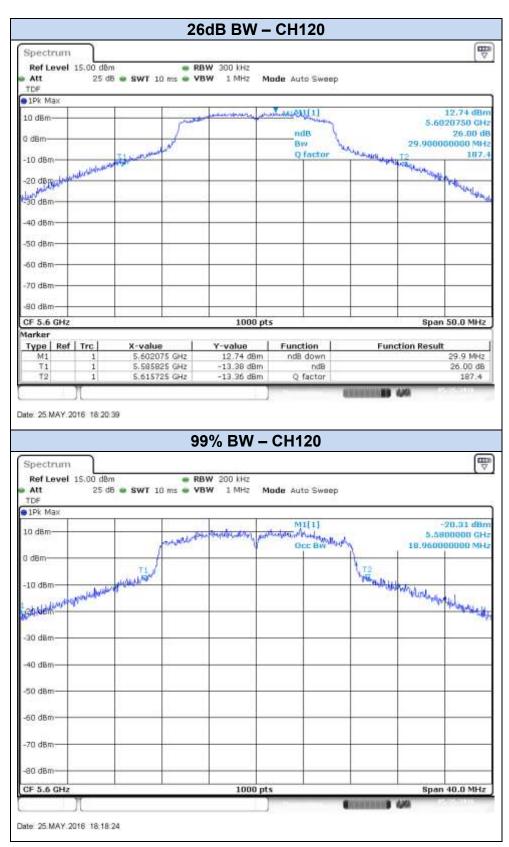


Results screenshot

802.11a, 6Mbps – Chain A

				- CH100			G
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	25 dB 👜 SWT :		BW 300 kHz BW 1 MHz M	lode Auto Swee	P		
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Type Ref Tro	X-valu	ie I	Y-value	Function	Fu	inction Resul	t
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		275 GHz 675 GHz	-15.55 dBm -15.21 dBm	0 factor			26.00 dB 235.2
14	5,511	OTO GTA	13.2.1 0011	Q Idecor	-		E.0.5.A
	8.11.23	9	9% BW –	CH100			æ
ate 25.MAY 2016 1 Spectrum			1000000000	- CH100			(T
Spectrum Ref Level 15.0) dBm	e Ri	BW 200 kHz	CH100	P		T T
Spectrum Ref Level 15.0 Att TDF) dBm	e Ri	BW 200 kHz		P		(E
Spectrum Ref Level 15.0 Att TDF) dBm	e Ri	BW 200 kHz	Node Auto Swee	P		
Spectrum Ref Level 15.0 Att TDF JPk Max	0 dBm 25 dB ● SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	M.		-36.33 dBr
Spectrum Ref Level 15.0 Att TDF IPk Max 10 dBm	0 dBm 25 dB ● SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	M.	5.4	-36,33 dBr 800000 GH
Spectrum Ref Level 15.0 Att TDF IPk Max 10 dBm	0 dBm 25 dB ● SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Node Auto Swee	M.	5.4	-36,33 dBr 800000 GH
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Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 0 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 0 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
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Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm 0 -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm 0 -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm 0 -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm 0 -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF 1Pk Max 10 dBm 10 dBm 0 -10 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	Mode Auto Swee	under and a second s	5,4	-36,33 dBr 800000 CH 900000 MH
Spectrum Ref Level 15.0 Att TDF IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -80 dBm -70 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz N BW 1 MHz N Northwellin Mini (khi I I I I I I I I I I I I I I I I I I I	MI[1]	under and a second s	5.4 16.560	-36,33 dBr 900000 CH 900000 MH
Spectrum Ref Level 15.00 Att TDF JPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	25 dB • SWT	● Rf 10 ms ● Vi	BW 200 kHz BW 1 MHz M	MI[1]	under and a second s	5.4 16.5600	-36.33 dBr 800000 MH











802.11a, 6Mbps – Chain B





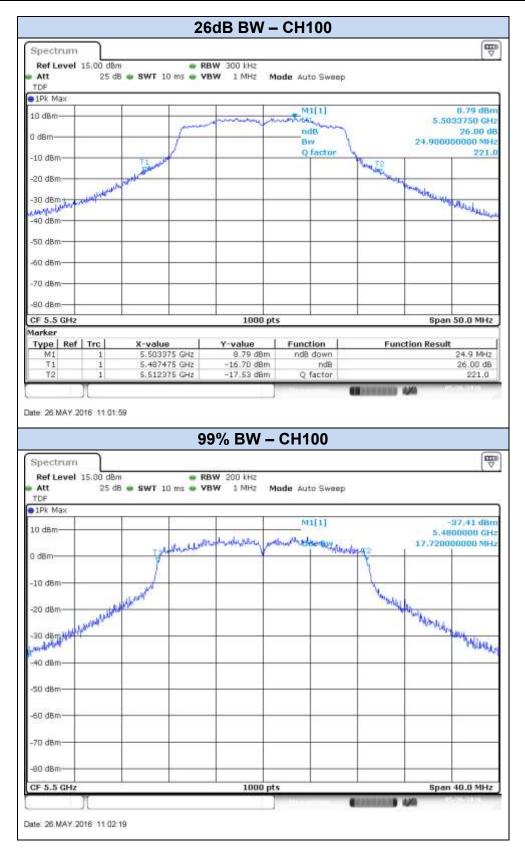
		20	ав вии –	· CH120			
Spectrum			11 0 0 1 0 1 0				
Ref Level 15.00 Att	idBm 25 dB 🖷 SWT 10		W 300 kHz	nda kuta Curan			
TDF	25 00 W SWI 10	ms e vo	We approach the	ode Auto Sweep			
1Pk Max							
0 dBm	-	-	and the second second	- THOMAN (1)		5.60	13.01 dB 22750 Gł
d8m				ndB			26.00 (
TI	and we find the second	the state		Bw Q factor	and the second particular	36.0500	00000 MI 155
10 dBm	nini dan kunakti nangati				the sale of sales	and a south for the	Array .
20 d8m							-With al
30 dBm		<u> </u>			-	-	
8225.013.015.0							
40 dBm-		Ĩ					
50 dBm	-					-	
60 dBm		<u> </u>				-	
1.2.28528							
70 dBm							
80 dBm							
F 5.6 GHz	10 2	5	1000 pt	s	16	Span	50.0 MH
arker Type Ref Trc	X-value	- 1	Y-value	Function	Euro	ction Result	
M1 1	5,60227	5 GHz	13.01 dBm	nda down	Fun		36.05 MH
T1 1 T2 1			-13.32 dBm -13.22 dBm	0 factor			26.00 d
16 25.MAY 2016 1		99	% BW –	CH120	Constanting B	449	40591310
		99	% BW –	CH120		4/6	(
te 25.MAY.2016 11	0:59:50		101000-000	CH120		4/6	
Spectrum Ref Level 15:00 Att 2	0:59:50	e RBI	W 200 kHz	CH120		4/4	(E
Spectrum Ref Level 15,00 Att	0:59:50 I dBm	e RBI	W 200 kHz				(E
Spectrum Ref Level 15.00 Att 3 TDF 1Pk Max	0 59:50 1 dBm 25 dB • SWT 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep			
Spectrum Ref Level 15,00 Att	0 59:50 1 dBm 25 dB • SWT 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم		5.58	17,85 dB
Spectrum Ref Level 15.00 Att S IDF IPk Max 0 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15.00 Att S IDF IPk Max 0 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15.00 Att S IDF IPk Max 0 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15.00 Att S IDF IPk Max 0 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15.00 Att S rDF IPk Max 0 dBm dBm 10 dBm 10 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58	17.85 dB 00000 G 00000 M
Bectrum Ref Level 15:00 Att 3 IPk Max 0 dBm dBm dBm L0 dBm 20 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 3 TDF IPk Max 0 dBm dBm dBm L0 dBm L0 dBm 20 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 3 TDF IPk Max 0 dBm dBm dBm 10 dBm 20 dBm 20 dBm 20 dBm 20 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 57 TDF Max 0 dBm dBm dBm 10 dBm 20 dBm 20 dBm 30 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 3 TDF IPk Max 0 dBm dBm dBm 10 dBm 20 dBm 40 dBm 40 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 3 rp# 19k Max 0 dBm 0 dBm 0 dBm 0 20 dBm 0 30 dBm 0 50 dBm 50 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15:00 Att 3 rp# 19k Max 0 dBm 0 dBm 0 dBm 0 20 dBm 0 30 dBm 0 50 dBm 50 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 Gi 00000 Mi
Spectrum Ref Level 15.00 Att 3 TDF 3 IPk Max 3 0 dBm 3 dBm 3 10 dBm 30 dBm 30 dBm 30 dBm 50 dBm 50 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 G 00000 M
Spectrum Ref Level 15.00 Att 3 TDF 3 IPk Max 3 0 dBm 3 dBm 3 10 dBm 30 dBm 30 dBm 30 dBm 50 dBm 50 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17.85 dB 00000 Gi 00000 Mi
Spectrum Ref Level 15.00 Att 3 IDF IPk Max 0 dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ode Auto Sweep M1[1] مريانيومهم والمروم	1	5.58 23.6800	17,85 dB 00000 G 00000 Mi
Spectrum Ref Level 15.00 Att Spectrum rDF IPK Max 0 dBm dBm dBm dBm 0 dBm dBm 10 dBm dBm 10 dBm dBm 10 dBm dBm 10 dBm dBm 20 dBm dBm 30 dBm dBm 50 dBm 50 dBm 50 dBm dBm	0.59:50 I dBm 25 dB swr 10	e RBN ms e VBN	W 200 kHz W 1 MHz M	ade Auto Sweep	1	5.58 23.6900	17.85 dB 00000 Gi 00000 Mi







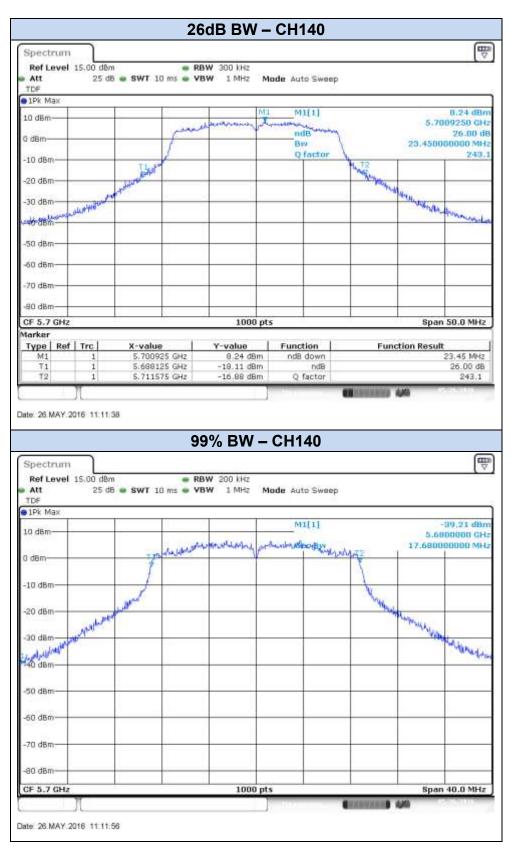
802.11n20, HT0 (SISO) - Chain A



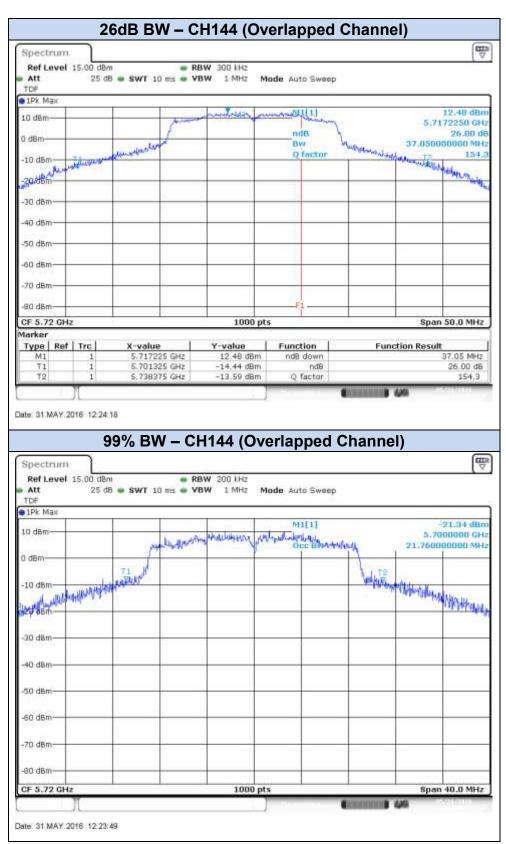


		200	dB BW -				
Spectrum			0.000.00				1
Ref Level 15.00	dBm 5 dB 🗰 SWT 10 n		W 300 kHz W 1 MHz N	lode Auto Swee	n		
TDF	0 00 D DHT 10 1			and Acto Stree	7		
1Pk Max							10 00 40
10 dBm-		mont	- manen a	Transfill	2	5.60	12.92 dB 20750 G
0 dBm	N	6		ndB	1	-	26.00 (
10 dBm	and the state of t			0 factor	and Michalland	39.3000	- 142
10 dbm						39.3000	and the second
eð dBm	-				_		- Aller
30 dBm					-	-	-
627.03193-							
40 dBm							
50 dBm-					-	-	
60 dBm	_				_		
0.2.2.2.2.2							
70 dBm							
80 dBm	-					-	
CF 5.6 GHz	- Mit - 201		1000 pt	ts	14.	Span	50,0 MH
larker Type Ref Trc	X-value	1	Y-value	Function	Eu	nction Result	
M1 1	5,602075		12.92 dBm	nda down	Fu	IGION Kesun	39.3 MH
T1 1 T2 1	5.580325		-13.25 dBm -13.45 dBm	0 factor			26.00 d
Ite 26 MAY 2016 11	06:14	99	% BW	CH120	CONTRACTOR	-	
ne 26.MAY.2016 11	08:14	99	% BW –	CH120	CEMERA		6
Spectrum			140000000	CH120	CERTIFICATION		(E
Spectrum Ref Level 15.00	dBm	e RBV	V 200 kHz				E
Spectrum Ref Level 15:00 Att 2		e RBV	V 200 kHz	CH120 Tode Auto Swee	P		[6
Spectrum Ref Level 15.00 Att 2 TDF	dBm	e RBV	V 200 kHz	lode Auto Swee	P		
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max	dBm 5 dB ⊕ SWT 10 m	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	M.		-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	lode Auto Swee	M.	5.58	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 0 dBm 10 dBm 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	5.58	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 15.00 IDF Max 0 dBm 10 dBm 10 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 20 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 0 dBm 1 dBm 10 dBm 20 dBm 30 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 1Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 2 0 dBm 30 dBm 10 dBm 30 dBm 40 dBm 40 dBm 50 dBm 60 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 IDF 15.00 IDF 19.00 IPK Max 2 ID dBm 20 ID dBm 20 ID dBm 20 ID dBm 20 ID dBm 30 ID dBm 30	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 2 1Pk Max 2 0 dBm 30 dBm 10 dBm 30 dBm 40 dBm 40 dBm 50 dBm 60 dBm	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	Nuto Swee	way	25.2800	-16.08 dB
Spectrum Ref Level 15.00 Att 2 TDF 15.00 IPk Max 2 0 dBm 20 10 dBm 20 20 dBm 20 30 dBm 30 40 dBm 30 50 dBm 30 50 dBm 30 70 dBm 30	dBm 5 dB - SWT 10 n	e RBV ns e VBV	W 200 kHz W 1 MHz N	NI[1]	way	5.56 25.2800	-16.08 dB







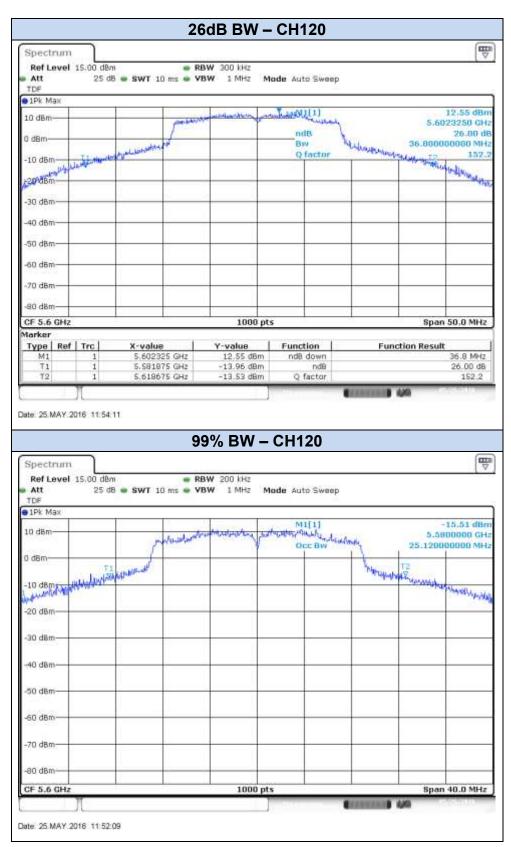




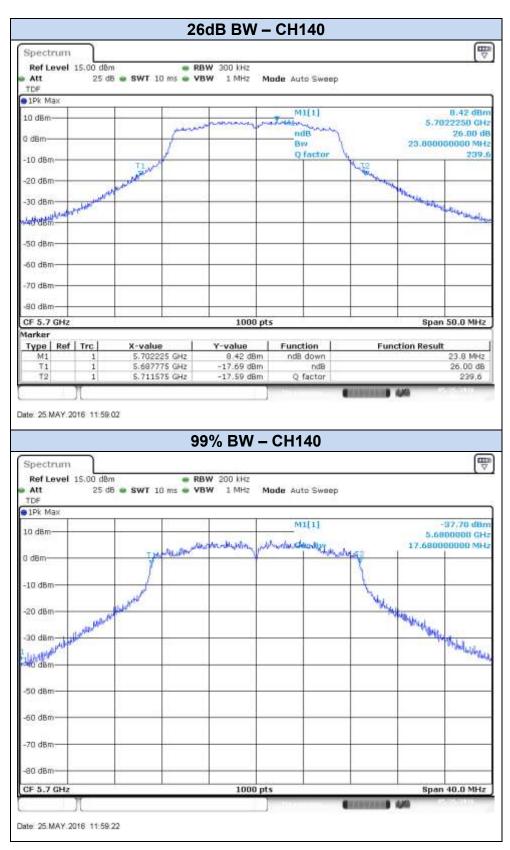
802.11n20, HT0 (SISO) - Chain B



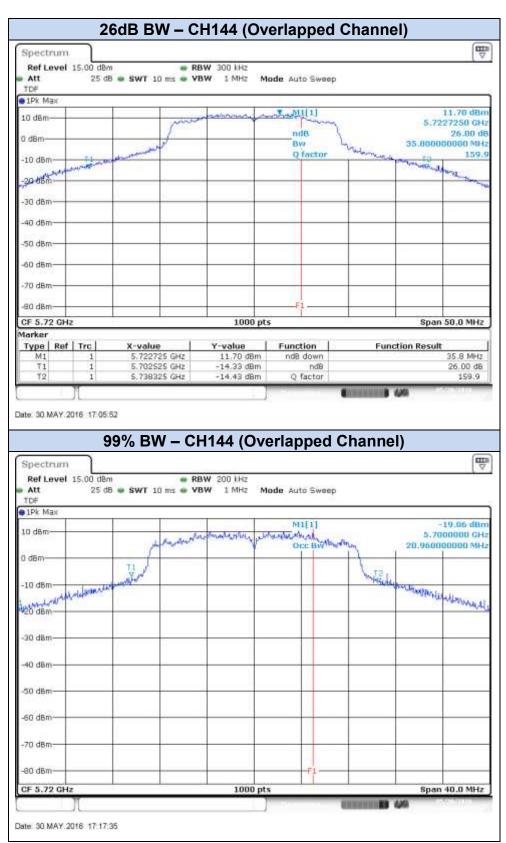














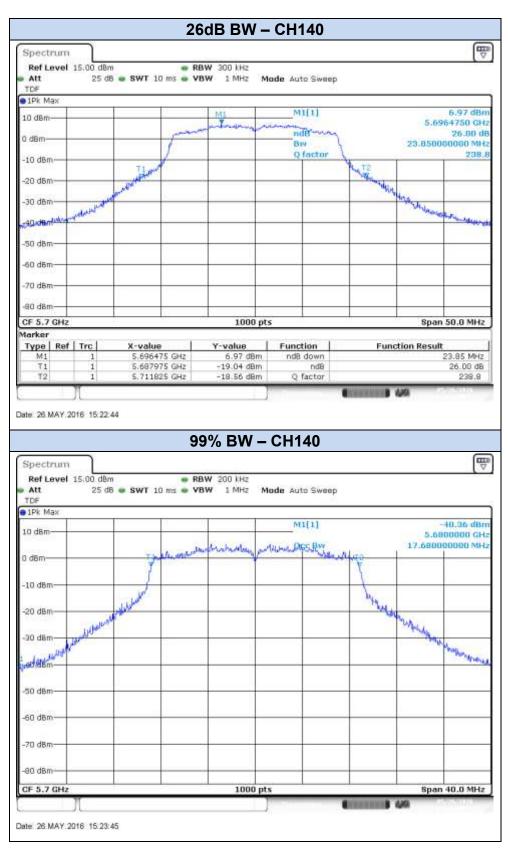
802.11n20, HT8 (MIMO) - Chain A



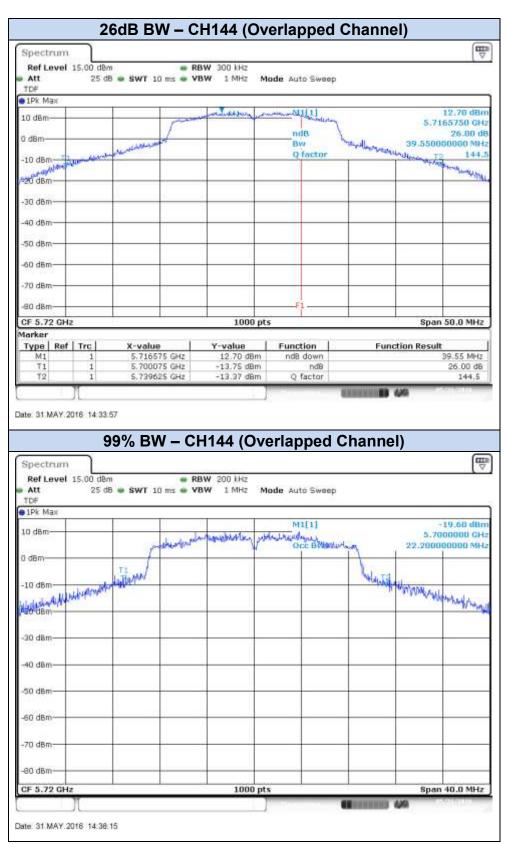


		26dB BW -	· CH120		
Spectrum	NG-S				
Ref Level 15.00 c Att 25	18m d8 🖝 SWT 10 ms	 RBW 300 kHz VBW 1 MHz MHz 	ode Auto Sweep		
TDF			a di.		
1Pk Max		a the second and an			13.26 dB
10 dBm-	/**	LEAN OF THE OWNER	Charlier -		5.5979250 GH
0 dBm	and and a start of the		Bw 1	ion manufactures	26.00 d 42.90000000 Mi
10 dBm	non -		Q factor	1	to and the second state
20 dBm					- motes
89/14/2000					
-30 dBm					
-40 dBm					
50 dBm-					
60 dBm	-				
70 dBm					
\$400765-5					
-90 dBm		1000	a		
CF 5.6 GHz tarker		1000 pt	5		Span 50,0 MH
Type Ref Trc	X-value	Y-value	Function	Functi	on Result
M1 1 T1 1	5.597925 GH 5.578775 GH	iz -13.10 dBm	nd8 down nd8		42.9 MH 26.00 d8
12 1	5.621675 GH	z -13.07 dBm	Q factor		130,5
1e 26 MAY 2016 15	15:49	99% BW –	CH120		
	15.49	99% BW –	CH120		۵ [ت
Spectrum Ref Level 15.00 o Att 25		RBW 200 kHz	CH120		Ø (E
Spectrum Ref Level 15.00 o Att 25 TDF	IBm	RBW 200 kHz			g [1
Spectrum Ref Level 15.00 o Att 25 TDF 1Pk Max	18m dB e sw⊺ 10 ms i	 RBW 200 kHz VBW 1 MHz M 	ode Auto Sweep		-12.08 dB
Att 25 TDF 1Pk Max 10 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ode Auto Sweep	, ,	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15,00 o Att 25 TDF 1Pk Max 10 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	nu l	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15,00 o Att 25 TDF 1Pk Max 10 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	may have be	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15,00 o Att 25 TDF 1Pk Max 10 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	nu lasuro la	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 c Att 25 TDF 10 Pk Max 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm/ 10 dBm/ 10 dBm/ 10 dBm/ 10 dBm/ 10 dBm/ 11 dBm/ 10 dBm/	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	ray have been	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15:00 o Att 25 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	may how was	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15:00 o Att 25 TDF 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	my house	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 of Att 25 TDF 25 10F Max 10 dBm 71 10 dBm 71 20 dBm 71 30 dBm 90 30 dBm 90	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	may have been	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 d Att 25 TDF 25 1PK Max 20 0 dBm T1 10 dBm T1 20 dBm 30 dBm 40 dBm 40 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep		-12,08 dB 5.5800000 G
Spectrum Ref Level 15.00 of Att 25 TDF 10 / Bm 10 / Bm 20 dBm 30 dBm 40 dBm 25	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep	may how work	-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 o Att 25 TDF 10 Pk Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep		-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 c Att 25 TDF 25 1Pk Max 10 dBm 71 10 dBm 71 20 dBm 71 30 dBm 71 40 dBm 71 50 dBm 71 5	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep		-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 o Att 25 TDF 1Pk Max	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep		-12,08 dB 5.5800000 Gł
Spectrum Ref Level 15.00 c Att 25 TDF 25 1Pk Max 10 dBm 71 10 dBm 71 20 dBm 71 30 dBm 71 40 dBm 71 50 dBm 71 5	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ade Auto Sweep		-12,08 dB 5.590000 CF 28.24000000 MH Many Multinutura
Spectrum Ref Level 15:00 c Att 25 25 TDF 10:00 c 10 dBm 71 10 dBm 71 10 dBm 71 20 dBm 71 30 dBm 71 40 dBm 60 dBm 50 dBm 60 dBm 70 dBm 70 dBm	IBm dB • SWT 10 ms	 RBW 200 kHz VBW 1 MHz M 	ode Auto Sweep		-12,08 dB 5.5800000 Gł











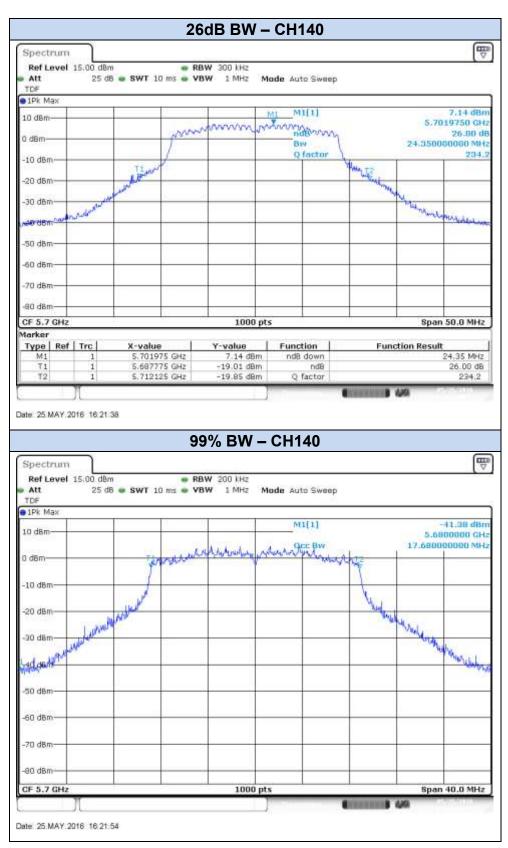
802.11n20, HT8 (MIMO) - Chain B



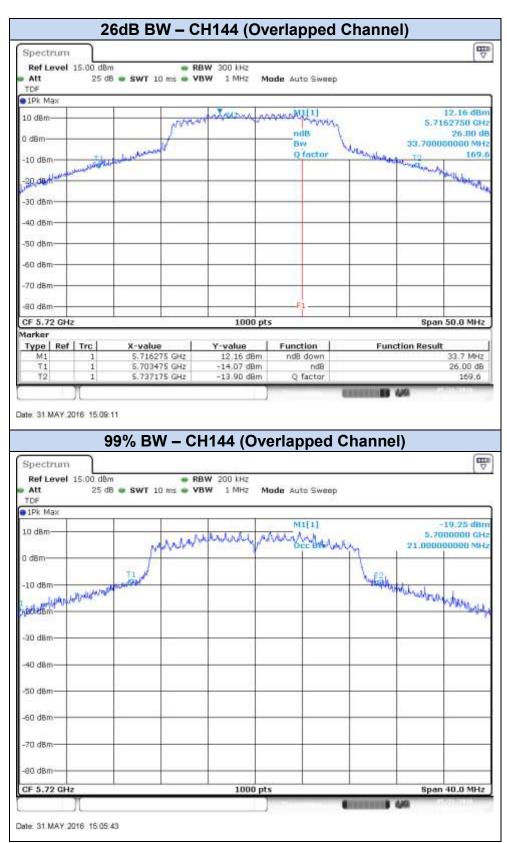


Spectrum						
Ref Level	15.00 dB		RBW 300 kHz			
TDF	25 (18 🖷 SWT 10 ms	WBW 1 MHz M	fode Auto Sweep		
1Pk Max						
10 dBm			mannantio	MANAMANAN	ú.	13.80 dB 5.5982750 G
0.49m		and -		ndB	1	DC 000
U UBIN	undal	and a stand and astand and a stand and astand and a stand and astand and a stand and astand and a stand and astand and astand and a stand and astand		Bw Q factor	Comproved and	41.800000000 Mil
-10 dBm	AND A COLOR	where the adaption of		Se laceor	1	and the state of t
-20 dBm						
-30 dBm					-	
462255535						
-40 dBm			Ĩ			
-50 dBm-					-	
-60 dBm-	_	-			-	
20.40-						
-70 dBm						
-90 dBm						
CF 5.6 GHz		2.0	1000 p	ts	17.	Span 50,0 MH
tarker Type Ref	Trc	X-value	Y-value	Function	Fur	nction Result
M1	1	5.598275 GH	z 13.80 dBm	nda down	3270	41.8 MH
T1	1	5.\$79175 GH		ndB		26.00 dl 133.9
	_	5.620975 GH	2 -12.48 dBm 99% BW -	CH120	Contractor	100
ate: 25.MAY.2	JL 2016 15.41]		440 [C
ate 25.MAY. Spectrum Ref Level	JL 2016 15.41	::11 m	99% BW -	· CH120		100
ate 25.MAY. Spectrum Ref Level	JL 2016 15.41	211	99% BW -]		100
ate 25.MAY. Spectrum Ref Level Att TDF	JL 2016 15.41	::11 m	99% BW -	CH120		100
Spectrum Ref Level Att TDF 1Pk Max	JL 2016 15.41	m 16 ● SWT 10 ms	99% BW -	CH120		-11.92 dB
Spectrum Ref Level Att TDF 10 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
Spectrum Ref Level Att TDF 10 dBm	2016 15.41 15.00 dB 25 d		99% BW -	· CH120	when .	-11.92 dB 5.5900000 ci
Spectrum Ref Level Att TDF 10 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
Spectrum Ref Level Att TDF 10 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.580000 G
Spectrum Ref Level Att TDF 10 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate: 25.MAY. Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm -20 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25.MAY . Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm -20 dBm -30 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
spectrum Ref Level Att TDF 1Pk Max 10 dBm 0 dBm -20 dBm -30 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate: 25.MAY. Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm -20 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -40 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm	2016 15.41 15.00 dB 25 d		99% BW -	CH120	when .	-11.92 dB 5.5900000 ci
ate 25 MAY 3 Spectrum Ref Level Att TDF 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm	2016 15.41 15.00 dB 25 d		99% BW -	Auto Sweep	when .	-11.92 dB 5.5900000 ci



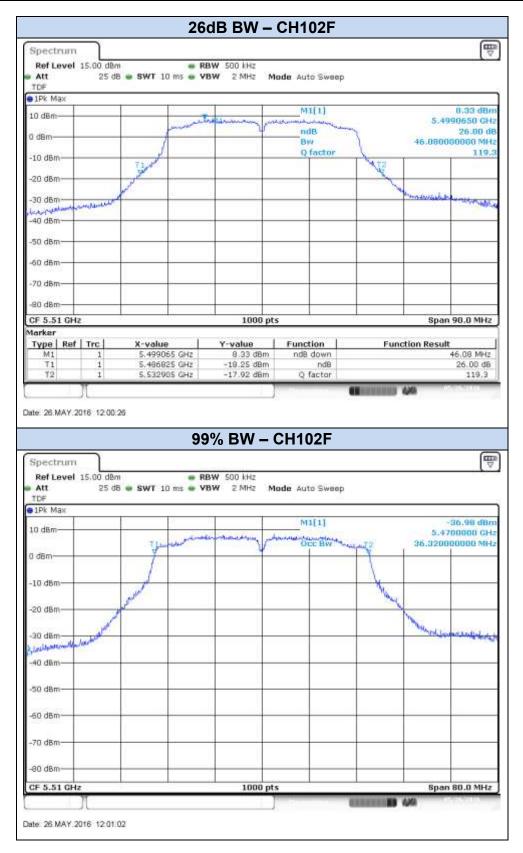








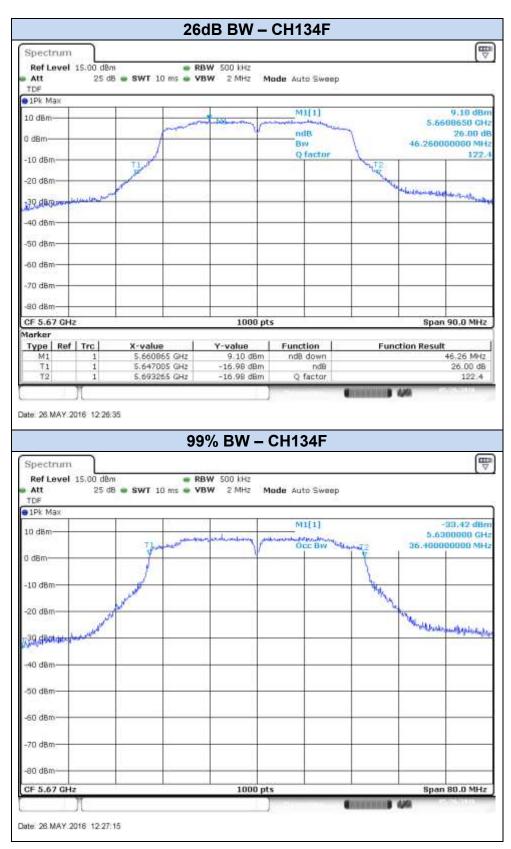
802.11n40, HT0 (SISO) - Chain A



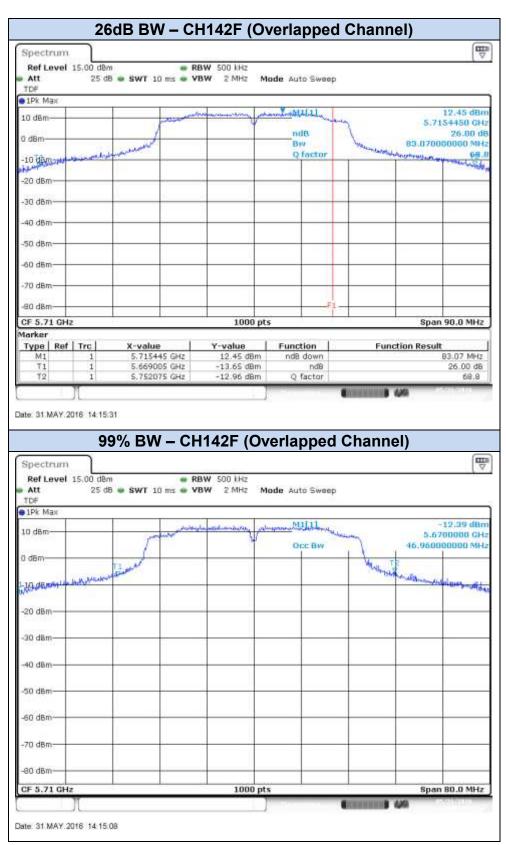


			200	dB BW –	CH118F			
Spectrum								
Ref Level				W 500 kHz				
TDF	25 dB	. SWT 10	3 ms 🖷 VB	SW 2 MHz /	Mode Auto Swee	P		
1Pk Max								
10 dBm-		-	and and	mar man the same of	Intitit	intra	5 0	12.87 dB
0 dBm		1			ndB	1		26.00 d
0 dBm	1. monuter	- alle and a second			Bw Q factor	" the and a state	87.390	000000 MI
10, dette					Se lactor	1		But set and a set of the
-20 dBm						_		
-30 dBm		-				-	-	-
#1995.0153.000 +			1					
-40 dBm		1						
50 dBm-				-			-	+
-60 dBm				-		_	-	
-70 dBm								
04 A 07851-5								
-90 dBm								
CF 5.59 GHz tarker	1			1000 p	ts		Spa	in 90,0 MHz
Type Ref	Trc	X-value		Y-value	Function	Fu	nction Resu	
M1 T1	1	5.5968	Contraction of the second	12.87 dBm -13.65 dBm	nd8 down nd8		and the second second	87.39 MHz 26.00 d8
T2	1	5,6339		-13.39 dBm	Q factor			64.0
te: 26 MAY 20	JL 016 12 15:2	16	99	% BW –	CH118F		1 446	025310
ate 26 MAY 20	JL 016 12 15 2	15.	99	% BW –	CH118F	C	1 449	E.
Spectrum Ref Level	15.00 dBm	62	e RE	SOO kHz			1 449	E T
Spectrum Ref Level	15.00 dBm	62	e RE	SOO kHz	CH118F	P	1 49	(T
Spectrum Ref Level Att TDF	15.00 dBm	62	e RE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	%	1 68	(Et
Spectrum Ref Level Att TDF 1Pk Max	15.00 dBm	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	%	1 44	-10.14 dB
Spectrum Ref Level Att TDF 1Pk Max	15.00 dBm	• SWT 10	e RE 3 ms e VE	1W 500 kHz 3W 2 MHz 1		%		
Spectrum Ref Level Att TDF IPk Max 10 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF 1Pk Max 10 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore		-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF 1Pk Max 10 dBm 0 dBm 20 dBm -20 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF 1Pk Max 10 dBm 0 dBm 20 dBm -20 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm -20 dBm -30 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm -20 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm 	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm 	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF 1Pk Max 10 dBm 0 dBm 20 dBm 20 dBm 40 dBm 50 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm 40 dBm 40 dBm 50 dBm 50 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm 	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF IPk Max 10 dBm 0 dBm 20 dBm 40 dBm 40 dBm 50 dBm 50 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH
Spectrum Ref Level Att TDF 1Pk Max 10 dBm 0 dBm 20 dBm -20 dBm -40 dBm -40 dBm -50 dBm -50 dBm -70 dBm	15.00 dBm 25 dB	• SWT 10	e RE 0 ms e VE	1W 500 kHz 3W 2 MHz 1	Mode Auto Swee	Acore	56.400	-10,14 dBi 550000 GH



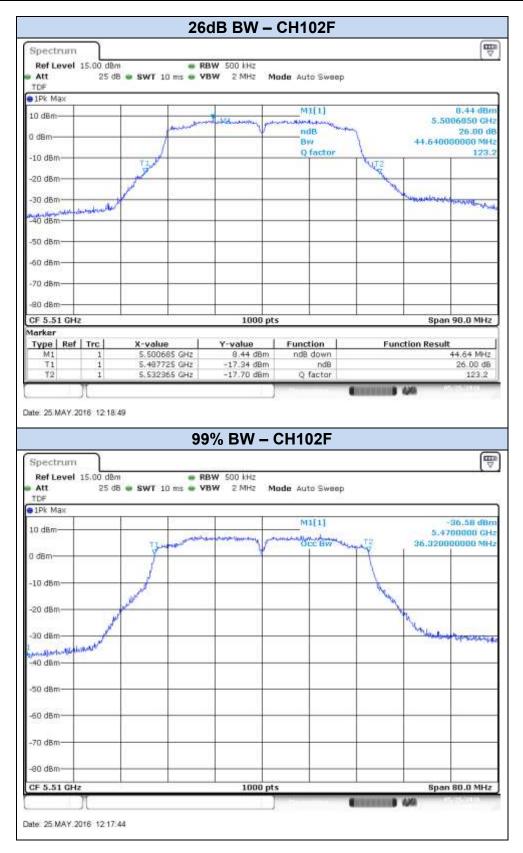




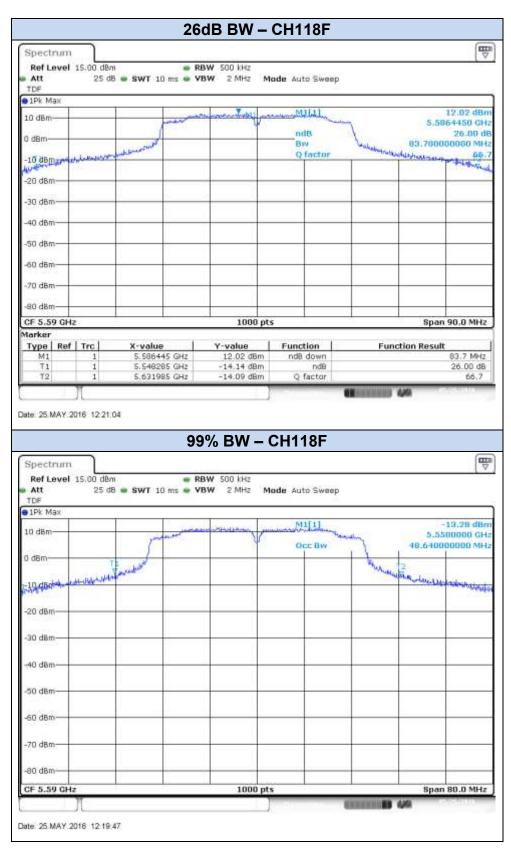




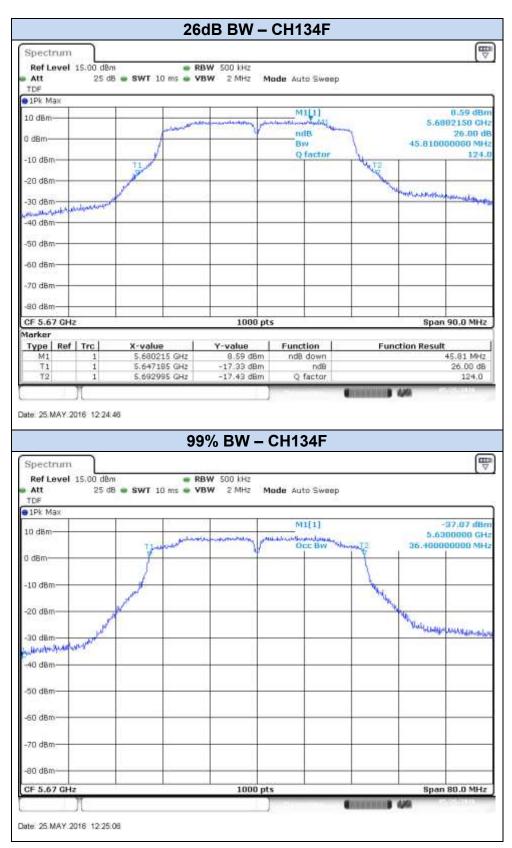
802.11n40, HT0 (SISO) - Chain B



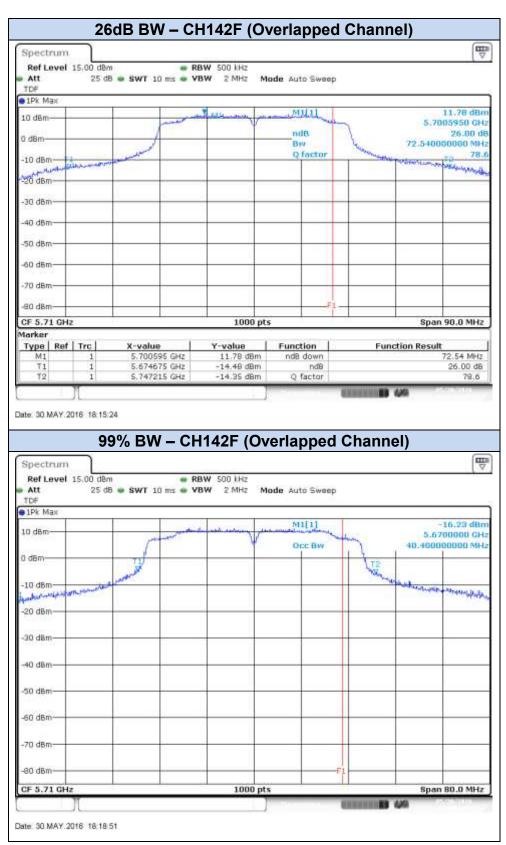






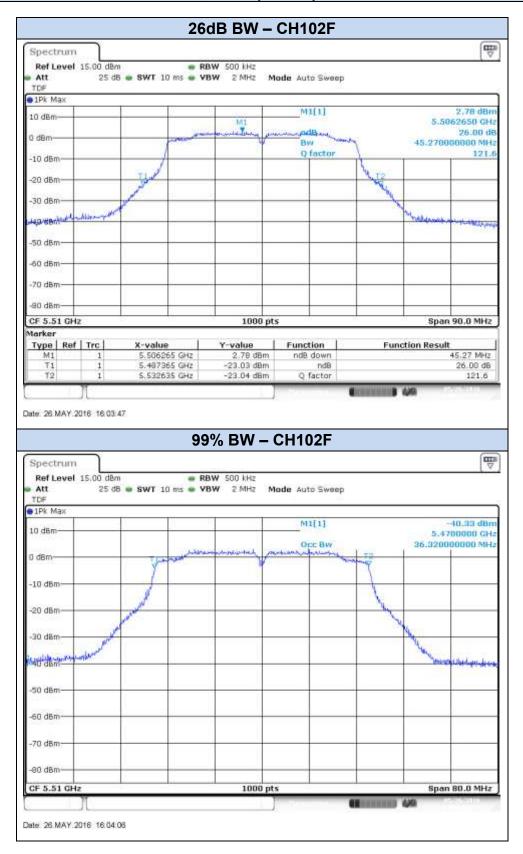




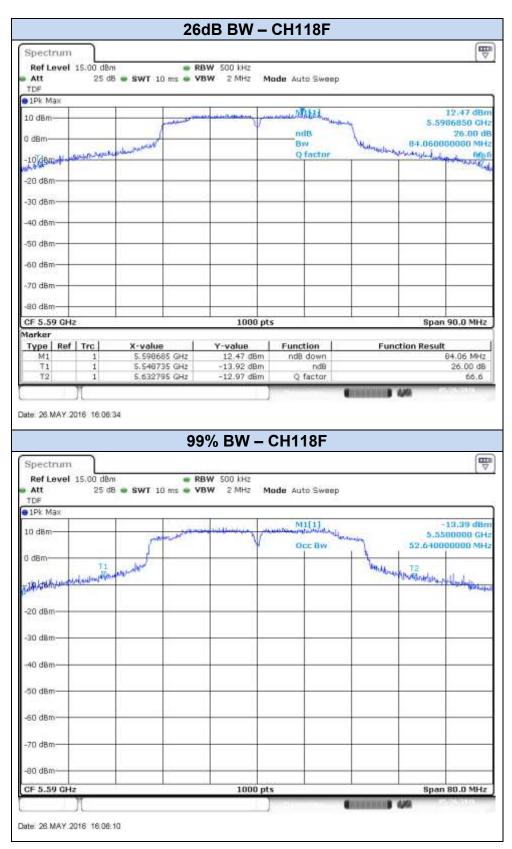




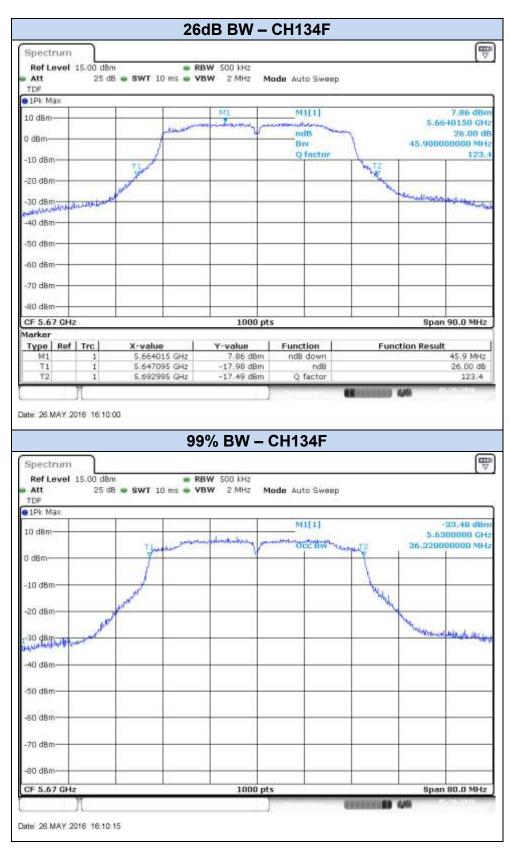
802.11n40, HT8 (MIMO) - Chain A



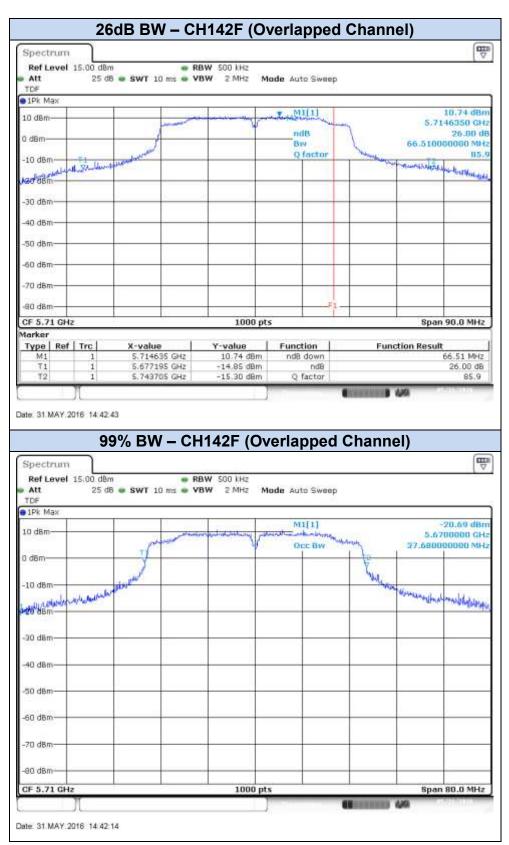






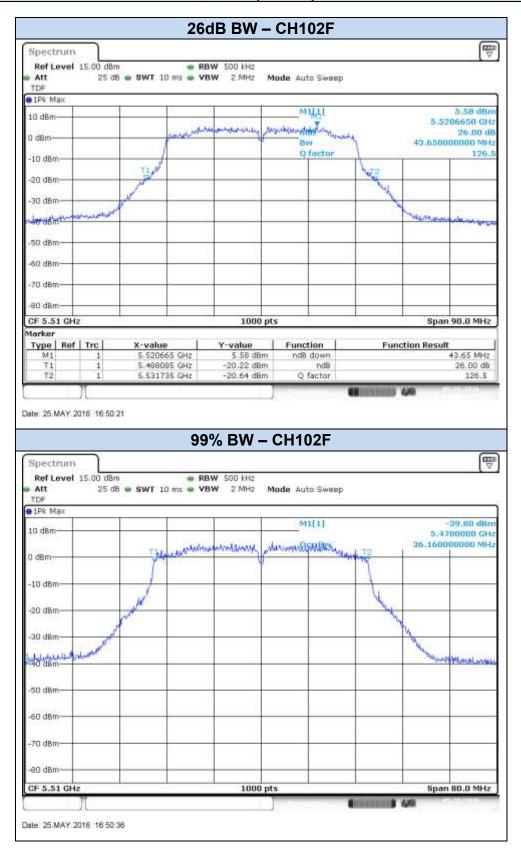








802.11n40, HT8 (MIMO) - Chain B



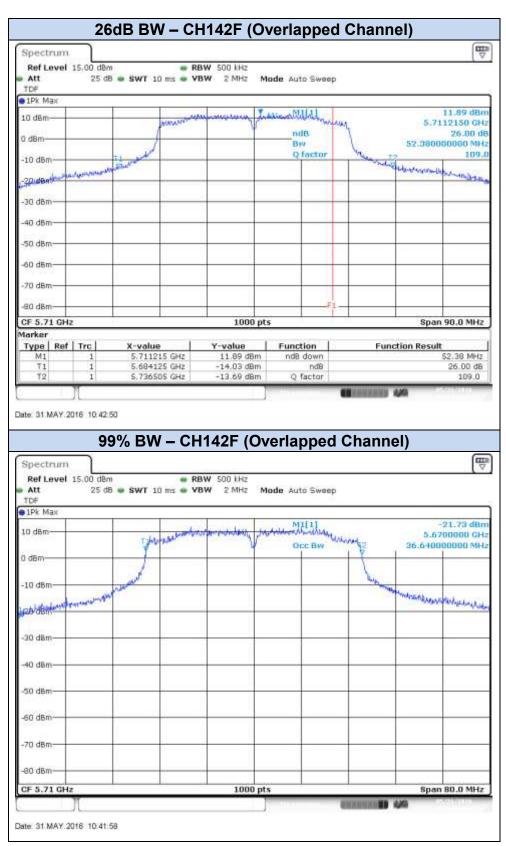


		26dB BW –	3111101			G
Spectrum	10	DDWL FOO HIM				9
Att 25	38m 5 dB e SWT 10 ms e	RBW 500 kHz VBW 2 MHz N	Iode Auto Sweep			
TDF						
1Pk Max		and the states in	ALL CONTRACTOR D		15	.50 dB
10 dBm-	potent	wanted miterations of	the states and the second	ing		650 G
0 d8m	A		ndB	1		26.00 0
19 ditorman	mannah		Q factor	marships	01.540000	TEB
10.080						and second and
-20 dBm						
-30 dBm				-		
4.297.0211.0	0					
40 dBm-	1					
50 dBm	-	_			+ +	
60 dBm						
20.25-242-25						
70 dBm						
80 dBm				_	+	
CF 5.59 GHz	- <u>1</u> 2	1000 p	ts		Span 9	3.0 MH
larker	to served the room	17 - 100-01 (Street)				
Type Ref Trc M1 1	X-value 5.592565 GHz	Y-value 13.50 dBm	Function nd8 down	Fur	nction Result	.54 MH
T1 1	5.550085 GHz	-12.71 dBm	ndB			6.00 di
12 1	5.631625 GHz	-12.25 dBm	Q factor			68.6
Ite: 25.MAY.2016 16	52 11	99% BW –]	C. San	40	561.00
	52 11]	•	44	ſ
Spectrum Ref Level 15.00 Att 25	52:11	99% BW -]	(Constanting)		ſ
Spectrum Ref Level 15,00 (Att 25	52:11 18m	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep			[
Spectrum Ref Level 15.00 (Att 25 TDF 1Pk Max	52:11 JBm 5 dB • SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep		-11	
Spectrum Ref Level 15.00 (Att 25 TDF 1Pk Max	52:11 JBm 5 dB • SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep		5.5500	.61 dB
Spectrum Ref Level 15,00 (Att 25 TDF 1Pk Max L0 dBm	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15,00 (Att 25 TDF 1Pk Max 0 dBm	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15,00 (Att 25 TDF 1Pk Max 0 dBm	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15,00 (Att 25 TDF 1Pk Max 0 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15:00 (Att 25 TDF 1Pk Max 0 dBm 0 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15:00 (Att 25 TDF 1Pk Max 0 dBm 0 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 Ci 000 Mi
Spectrum Ref Level 15:00 o Att 25 TDF 1Pk Max 10 dBm 0 dBm 0 dBm 20 dBm 20 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15.00 o Att 25 TDF 1Pk Max 10 dBm 0 dBm 20 dBm 30 dBm 30 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 Ci 000 Mi
Spectrum Ref Level 15.00 o Att 25 TDF 1Pk Max 10 dBm 0 dBm 20 dBm 30 dBm 30 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 Ci 000 Mi
Spectrum Ref Level 15.00 of Att 25 TDF 1Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 40 dBm 40 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum Ref Level 15.00 of Att 25 TDF 1Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 40 dBm 40 dBm	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum	52:11 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
Spectrum	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 Ci 000 Mi
Spectrum Ref Level 15:00 (Att 25) TDF 25 1Pk Max 10 10 dBm 10 10 dBm 10 20 dBm 10 30 dBm 10 40 dBm 10 50 dBm 10 60 dBm 10	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	.61 dB 1000 G 1000 M
	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F Made Auto Sweep	april	5.5500	000 Mi
Spectrum Ref Level 15.00 (Att 25 Att 25 TDF 1Pk Max 10 dBm 10 dBm 0 dBm 20 dBm 0 dBm 30 dBm 0 dBm 40 dBm 0 dBm 50 dBm 0 dBm 50 dBm 0 dBm 50 dBm 0 dBm	52:11 dBm 5 dB SWT 10 ms	99% BW - RBW 500 kHz VBW 2 MHz M	CH118F	april	5.5500	61 dB 0000 G 000 M 100 M



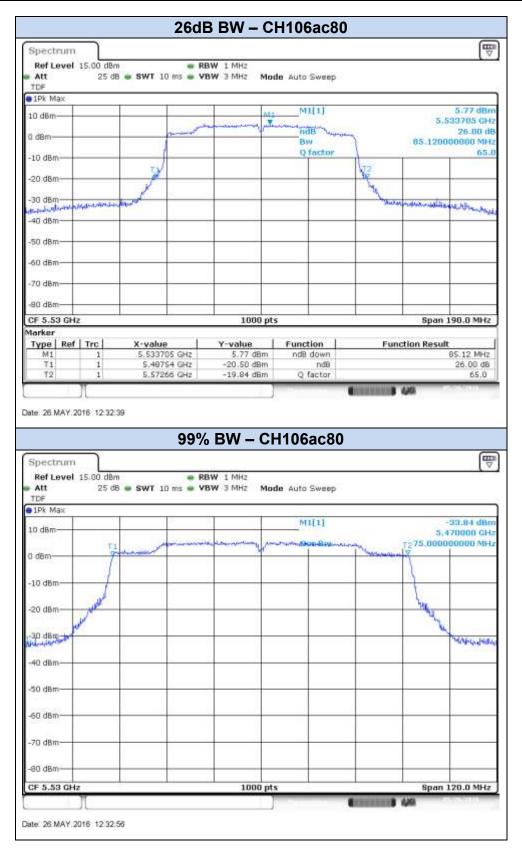




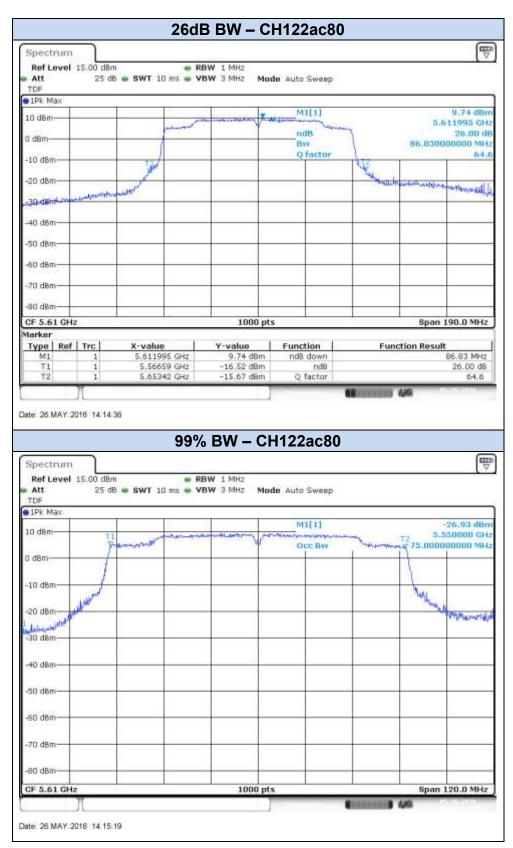




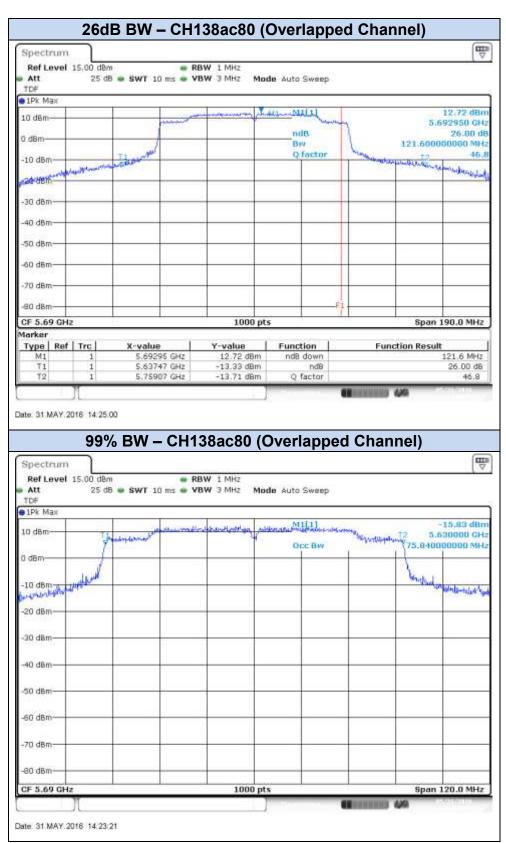
802.11ac80, VHT0 (SISO) - Chain A





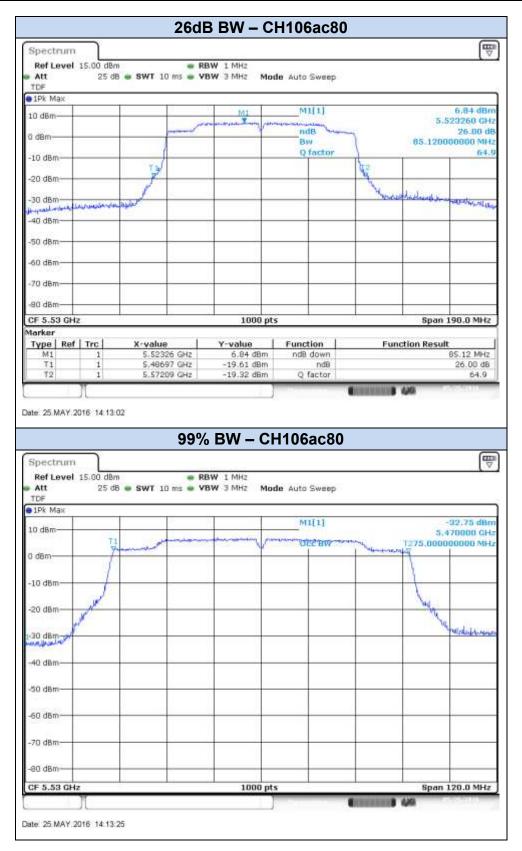




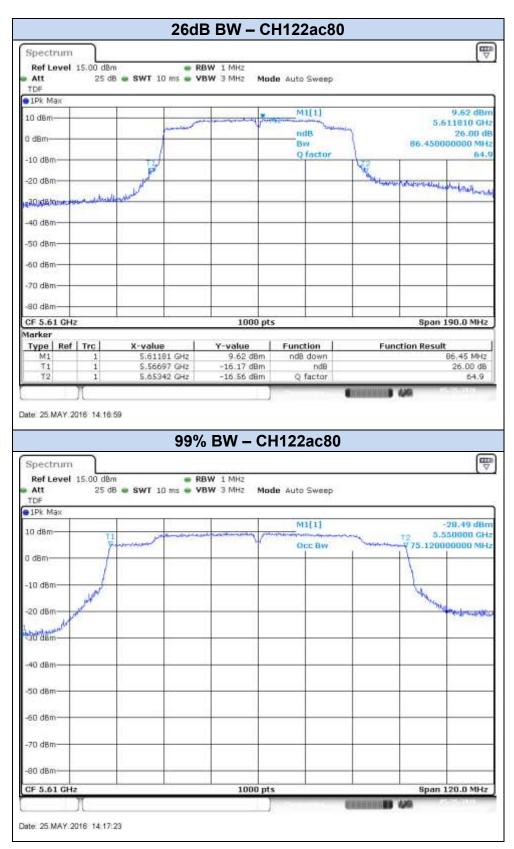




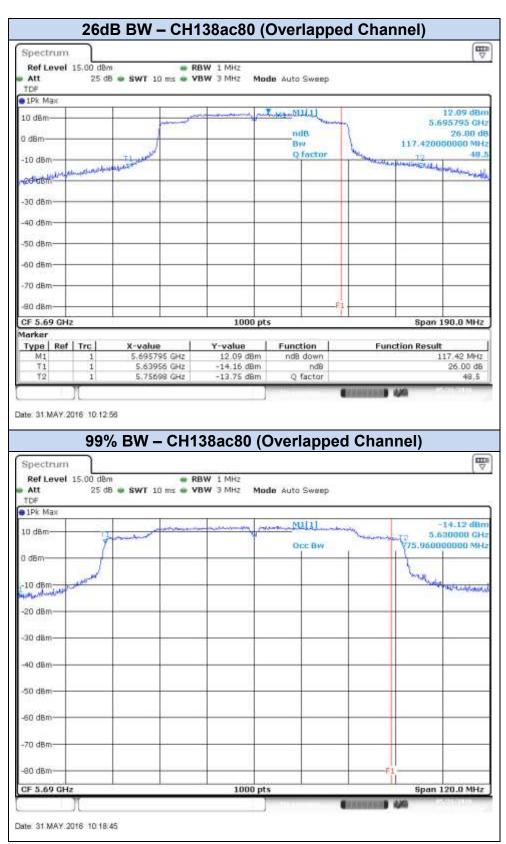
802.11ac80, VHT0 (SISO) - Chain B





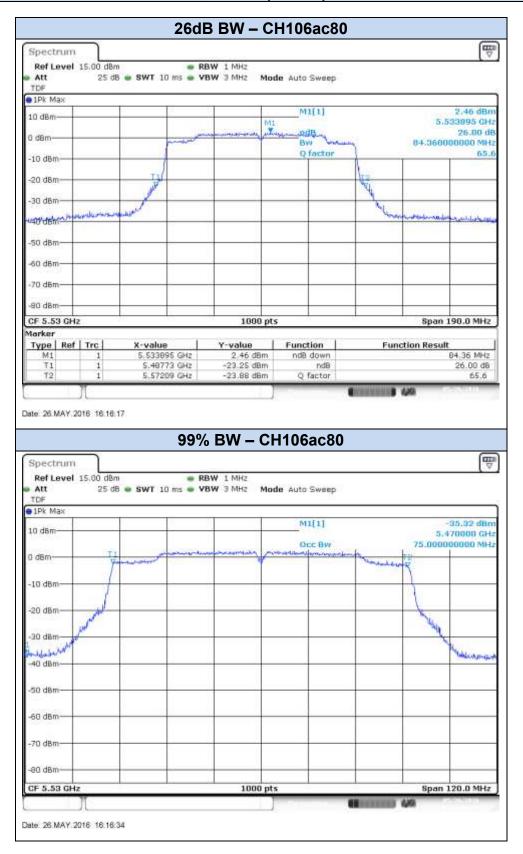








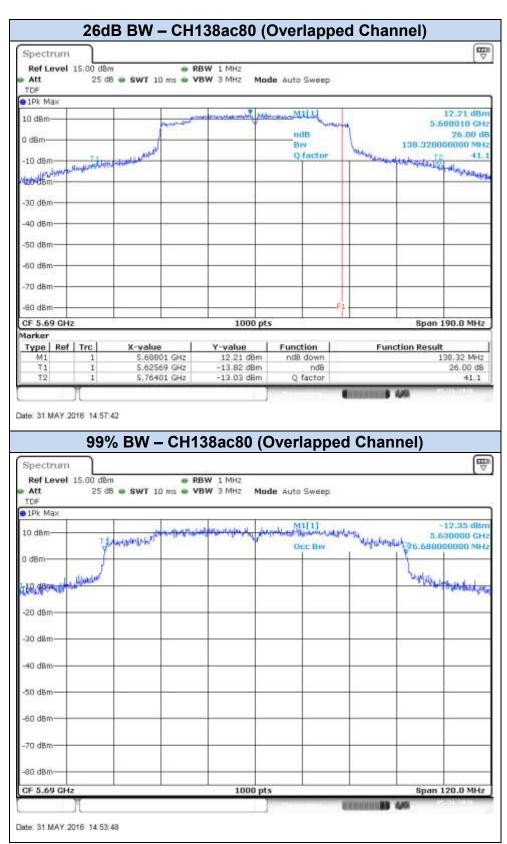
802.11ac80, VHT0 (MIMO) - Chain A





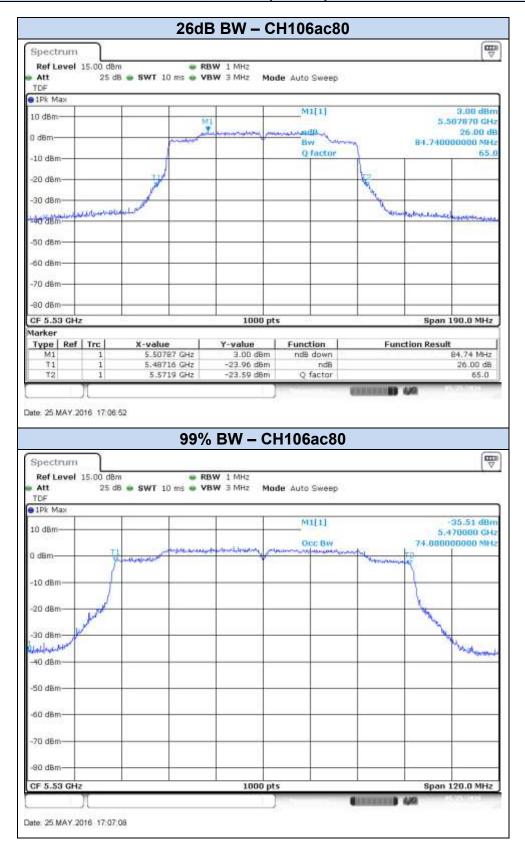








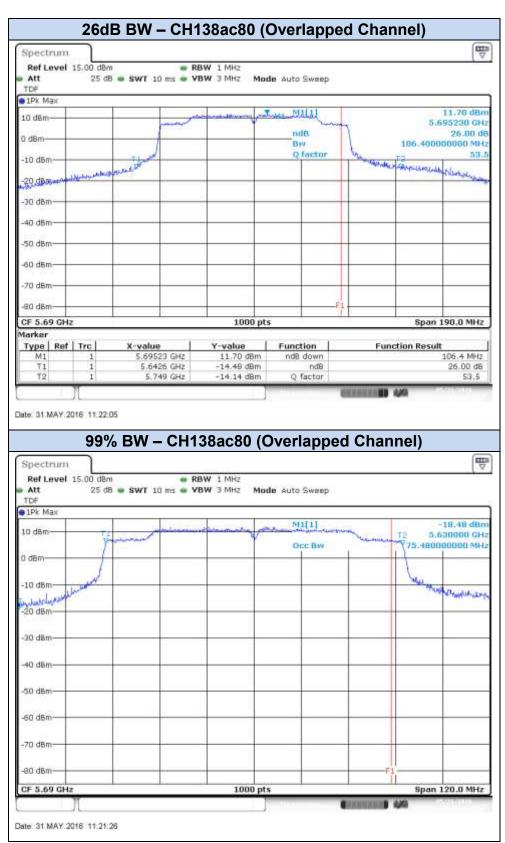
802.11ac80, VHT0 (MIMO) - Chain B













B.2 Power Limits. Maximum Output power & Peak power spectral density

Test limits:

Part	Limits
FCC 15.407 (a) (2)	For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.
RSS-247	The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Clause 6.2.2 (1)	The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Test procedure:

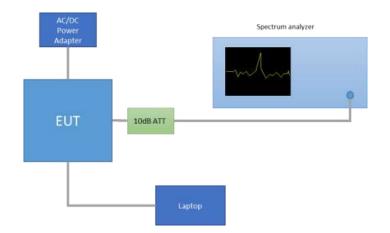
The Maximum Conducted Output Power was measured using the channel integration method according to point E) 2) e) (Method SA-2 Alternative) of KDB 789033 D02.

The maximum power spectral density (PSD) was measured using the method according to point F) (Method SA-2 Alternative) of KDB 789033 D02.

In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

The setup below was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



The declared maximum antenna gain is 5dBi.

For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 644545 D03, the power is computed based on the portion of the emission bandwidth contained within that band. This rule is only applicable for those channels marked as overlapped.



Results tables:

Duty cycle

Mode	Rate	Antenna	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
802.11a	6 Mbpo	SISO-A	1.45	1.48	98.2
002.11a	6Mbps	SISO-B	1.45	1.48	98.2
	HT0	SISO-A	1.47	1.50	97.6
802.11n20	пі	SISO-B	1.47	1.50	97.6
002.111120		MIMO-A	1.47	1.51	97.5
	HT8	MIMO-B	1.47	1.51	97.5
	HT0	SISO-A	1.46	1.49	98.1
802.11n40		SISO-B	1.46	1.49	98.1
002.111140	HT8	MIMO-A	1.48	1.52	97.3
		MIMO-B	1.48	1.52	97.3
		SISO-A	1.46	1.49	98.1
802.11ac80		SISO-B	1.46	1.49	98.1
002.118000	VHT0	MIMO-A	1.48	1.52	97.2
		MIMO-B	1.48	1.52	97.2

Maximum output power – U-NII-2C Channels

Mode	Rate	Channel	Freq. [MHz]	Antenna	Average Cond. Output Power [dBm]	Max.* Cond. Output Power [dBm]	Max.* Cond. Output Power [mW]	Max. EIRP [dBm]							
		400		SISO CHAIN A	18.12	18.20	66.05	23.20							
		100	5500	SISO CHAIN B	16.85	16.93	49.30	21.93							
11a	sdc	400	5000	SISO CHAIN A	20.24	20.32	107.61	25.32							
802.11a	6Mbps	120	5600	SISO CHAIN B	20.20	20.28	106.63	25.28							
ω		140	5700	SISO CHAIN A	17.14	17.22	52.71	22.22							
		140	5700	SISO CHAIN B	16.42	16.50	44.65	21.50							
		100	5500	SISO CHAIN A	16.51	16.61	45.86	21.61							
		100	5500	SISO CHAIN B	17.59	17.69	58.81	22.69							
	2	100	5000	SISO CHAIN A	20.32	20.42	110.26	25.42							
	НТО	120	5600	SISO CHAIN B	20.26	20.36	108.75	25.36							
		140	5700	SISO CHAIN A	15.96	16.06	40.40	21.06							
		140	5700	SISO CHAIN B	16.09	16.19	41.63	21.19							
20		100		MIMO CHAIN A	16.34	16.45	44.15	21.45							
802.11n20	HT8		5500	MIMO CHAIN B	16.44	16.55	45.17	21.55							
302				Combined A+B	19.40	19.51	89.32	24.51							
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		120	5600	MIMO CHAIN A	19.02	19.13	81.83	24.13							
				MIMO CHAIN B	18.66	18.77	75.32	23.77							
	-			Combined A+B	21.85	21.96	157.14	26.96							
		140 102E	5700	MIMO CHAIN A	14.68	14.79	30.12	19.79							
				MIMO CHAIN B	13.81	13.92	24.65	18.92							
				Combined A+B	17.28	17.39	54.78	22.39							
				SISO CHAIN A	16.68	16.76	47.45	21.76							
		1026	102F 5510	SISO CHAIN B	16.61	16.69	46.69	21.69							
	НТО	1100	5500	SISO CHAIN A	20.95	21.03	126.84	26.03							
	Ξ	118F	118F	118F	118F	118F	118F	118F	118F	5590	SISO CHAIN B	20.49	20.57	114.10	25.57
		1245	5670	SISO CHAIN A	17.36	17.44	55.50	22.44							
		134F	5670	SISO CHAIN B	17.25	17.33	54.11	22.33							
140				MIMO CHAIN A	11.74	11.86	15.34	16.86							
802.11n40		102F	5510	MIMO CHAIN B	12.40	12.52	17.86	17.52							
802				Combined A+B	15.09	15.21	33.20	20.21							
	- 6			MIMO CHAIN A	20.43	20.55	113.45	25.55							
	HT8	118F	5590	MIMO CHAIN B	20.56	20.68	116.90	25.68							
	-			Combined A+B	23.51	23.62	230.34	28.62							
				MIMO CHAIN A	16.43	16.55	45.16	21.55							
		134F	5670	MIMO CHAIN B	16.36	16.48	44.44	21.48							
				Combined A+B	19.41	19.52	89.61	24.52							



Mode	Rate	Channel	Freq. [MHz]	Antenna	Average Cond. Output Power [dBm]	Max.* Cond. Output Power [dBm]	Max.* Cond. Output Power [mW]	Max. EIRP [dBm]
				SISO CHAIN A	13.58	13.66	23.24	18.66
			0 5530	SISO CHAIN B	14.79	14.87	30.71	19.87
	106ac8	106ac80		MIMO CHAIN A	10.21	10.33	10.80	15.33
80				MIMO CHAIN B	10.28	10.40	10.98	15.40
1ac80	VHT0			Combined A+B	13.26	13.38	21.78	18.38
~	Η	5		SISO CHAIN A	17.37	17.45	55.62	22.45
802.				SISO CHAIN B	18.68	18.76	75.21	23.76
		122ac80	5610	MIMO CHAIN A	18.10	18.22	66.45	23.22
				MIMO CHAIN B	17.49	17.61	57.74	22.61
				Combined A+B	20.82	20.94	124.19	25.94

* Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

### Min Value

## Maximum output power – Overlapped channels between U-NII-2C and U-NII-3

Mode	Rate	Channel	Freq. [MHz]	Antenna	Average Cond. Output Power - UNII-2C [dBm]	Max.* Cond. Output Power - UNII-2C [dBm]	Max.* Cond. Output Power - UNII-2C [mW]	Max.* EIRP UNII2C [dBm]
0	HT0			SISO CHAIN A	19.34	19.44	87.99	24.44
1n20	Ξ			SISO CHAIN B	19.25	19.35	86.18	24.35
~	~	144	5720	MIMO CHAIN A	18.74	18.85	76.72	23.85
802.	HT8			MIMO CHAIN B	18.27	18.38	68.85	23.38
ω	-			Combined A+B	21.53	21.64	145.74	26.64
0	НТО			SISO CHAIN A	20.12	20.20	104.78	25.20
1n40	Η			SISO CHAIN B	19.59	19.67	92.74	24.67
~	3	142F	5710	MIMO CHAIN A	19.15	19.27	84.49	24.27
802.	HT8			MIMO CHAIN B	19.94	20.06	101.34	25.06
ω	-			Combined A+B	22.57	22.69	185.83	27.69
0				SISO CHAIN A	19.81	19.89	97.56	24.89
ac8	0			SISO CHAIN B	19.47	19.55	90.21	24.55
802.11ac80	<b>ИНТ</b> 0	138ac80	5690	MIMO CHAIN A	19.61	19.73	94.08	24.73
02.	>			MIMO CHAIN B	18.90	19.02	79.89	24.02
80				Combined A+B	22.28	22.40	173.97	27.40

* Maximum values are the duty cycle compensated values calculated from the average (measured) values

#### Max Value

Min Value



## Maximum Power Spectral Density (PSD) – U-NII-2C channels

Mode	Rate	Channel	Freq. [MHz]	Antenna	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]			
		100	5500	SISO CHAIN A	7.25	7.33			
		100	5500	SISO CHAIN B	5.97	6.05			
802.11a	6Mbps	120	5600	SISO CHAIN A	9.29	9.37			
002.118	olviops	120	5000	SISO CHAIN B	9.23	9.31			
		140	5700	SISO CHAIN A	6.29	6.37			
		140	5700	SISO CHAIN B	5.54	5.62			
		100	5500	SISO CHAIN A	5.48	5.58			
		100	5500	SISO CHAIN B	6.50	6.60			
	нто	100	5000	SISO CHAIN A	9.14	9.24			
	піо	120	5600	SISO CHAIN B	9.10	9.20			
		1.10	5700	SISO CHAIN A	4.92	5.02			
		140	5700	SISO CHAIN B	5.05	5.15			
				MIMO CHAIN A	5.30	5.41			
802.11n20	HT8	100	5500	MIMO CHAIN B	5.41	5.52			
				Combined A+B	8.37	8.47			
		120	5600	MIMO CHAIN A	7.87	7.98			
				MIMO CHAIN B	7.56	7.67			
				Combined A+B	10.73	10.84			
		140	5700	MIMO CHAIN A	3.62	3.73			
				MIMO CHAIN B	2.77	2.88			
				Combined A+B	6.23	6.34			
		4005	5540	SISO CHAIN A	2.30	2.38			
					102F	5510	SISO CHAIN B	2.22	2.30
		4405	5500	SISO CHAIN A	6.43	6.51			
	HT0	118F	5590	SISO CHAIN B	6.00	6.08			
		134F	5670	SISO CHAIN A	2.92	3.00			
		134F	5670	SISO CHAIN B	2.78	2.86			
				MIMO CHAIN A	-2.60	-2.48			
802.11n40		102F	5510	MIMO CHAIN B	-1.96	-1.84			
				Combined A+B	0.74	0.86			
				MIMO CHAIN A	5.93	6.05			
	HT8	118F	5590	MIMO CHAIN B	6.10	6.22			
				Combined A+B	9.03	9.14			
				MIMO CHAIN A	1.98	2.04			
		134F	5670	MIMO CHAIN B	1.92	2.04			
				Combined A+B	4.96	5.08			

Mode



802.11ac80	VHT0			Combined A+B	-3.97	-3.85
002.118000			5610	SISO CHAIN A	0.10	0.18
				SISO CHAIN B	1.37	1.45
		122ac80		MIMO CHAIN A	0.82	0.94
				MIMO CHAIN B	0.18	0.30
				Combined A+B	3.52	3.65

* Maximum values are the duty cycle compensated values calculated from the average (measured) values

#### Maximum Power Spectral Density (PSD) – Overlapped channels between U-NII-2C and U-NII-3

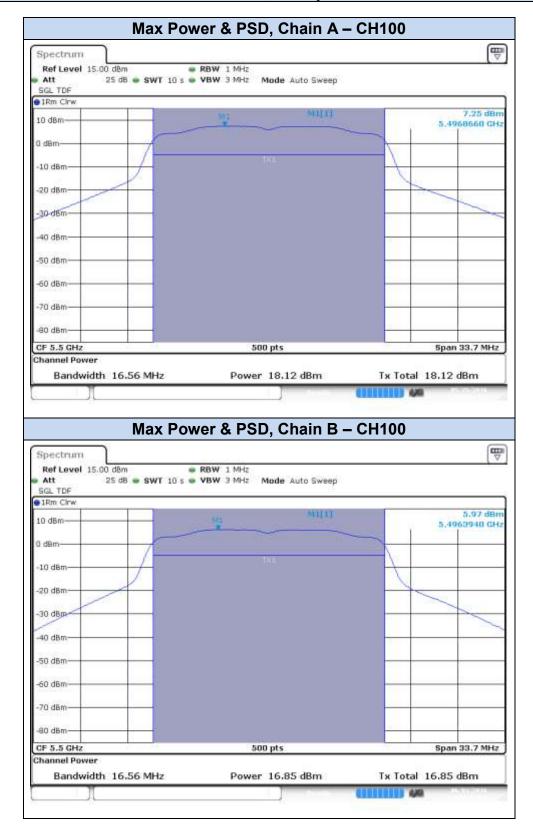
Mode	Rate	Channel	Freq. [MHz]	Antenna	Average conducted PSD UNII- 2C [dBm/MHz]	Maximum* conducted PSD UNII-2C [dBm/MHz]
	HT0			SISO CHAIN A	8.57	8.67
	1110			SISO CHAIN B	9.28	9.38
802.11n20	HT8	144	5720	MIMO CHAIN A	7.74	7.85
				MIMO CHAIN B	7.86	7.97
				Combined A+B	10.81	10.92
	цтο	1T0 142F 1T8		SISO CHAIN A	5.87	5.95
	пі			SISO CHAIN B	5.33	5.41
802.11n40			5710	MIMO CHAIN A	4.93	5.05
	HT8			MIMO CHAIN B	5.75	5.87
				Combined A+B	8.37	8.49
				SISO CHAIN A	2.54	2.62
				SISO CHAIN B	2.23	2.31
802.11ac80	VHT0	138ac80	5690	MIMO CHAIN A	2.04	2.16
				MIMO CHAIN B	1.68	1.80
				Combined A+B	4.87	5.00

* Maximum values are the duty cycle compensated values calculated from the average (measured) values

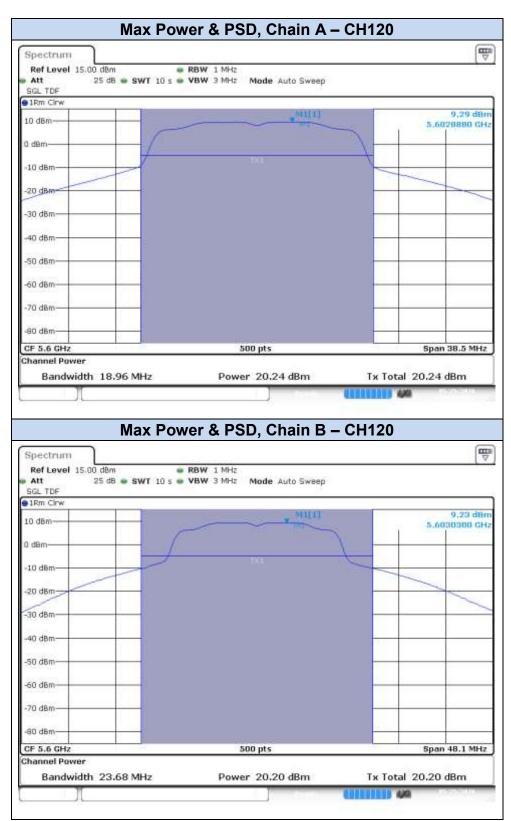


#### **Results screenshot:**

# 802.11a, 6Mbps













# 802.11n20, HT0 (SISO)

