



TESTING CERT #3478.01



TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 adapter card
Brand Name	Intel
Model Name	Intel® Dual-Band Wireless-AC 8260
Serial Number	TA#: H74231-001 / H74231-001 WF MAC: 34:13:E8:36:93:E5 / 34:13:E8:36:93:22 BT MAC: 34:13:E8:36:93:E9 / 34:13:E8:36:93:26 (see section 4)
FCC/IC ID	FCC ID: PD98260NGH / PD98260NGHU IC ID: 1000M-8260NGH
Antenna type	SkyCross WIMAX/WLAN Reference Antenna
Hardware/Software Version	HW: TF5 Test SW: DRTU version 1.8.1-01336 Op SW: 18.10.0.19
Date of Sample Receipt	2015-05-11
Date of Test	2015-05-26
Features	802.11 a/n/ac Wireless LAN + BT 1.2 (see section 5)

Applicant	Intel Mobile Communications
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Reference Standards	FCC CFR Title 47 Part 15C RSS-210 issue 8, RSS-Gen issue 4 (see section 1)
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Test Report number	15051101.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.

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1. Standards, reference documents and applicable test methods

1. FCC 47 CFR part 15 - Subpart C – §15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
2. FCC 47 CFR part 15 - Subpart C – §15.209 Radiated emission limits; general requirements.
3. FCC OET KDB 558074 D01 DTS Meas Guidance v03r02 – Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
4. FCC OET KDB 662911 D01 – Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
5. RSS-210 Issue 8 – Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
6. RSS-Gen Issue 4 – General Requirements for Compliance of Radio Apparatus.
7. ANSI C63.10-2009 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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 ± 2°C
Humidity	45% ± 2%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	15051101.S01	WiFi/BT High End Module	8260NGW H	WF MAC: 34:13:E8:36:93:E5	2015-05-11	Used for conducted tests
	15051101.S12	Extender board	PCB00495	ASS0495-001, 4950414-064	2015-05-12	
	15051101.S11	Switching power supply SINPRO 5V 6A	SPU60-102	07990499 1249	2015-05-12	
	15051101.S15	Laptop	DELL E5440	BJSYN32	2015-05-20	
#02	15051101.S04	WiFi/BT High End Module	8260NGW H	WF MAC: 3413E8369322	2015-05-11	Used for radiated tests
	15051101.S05	Switching power supply SINPRO 5V 6A	SPU60-102	07990495-1249	2015-05-12	
	15051101.S06	Extender board	PCB00495	ASS0495-001, 4950414-019	2015-05-12	
	15051101.S07	USB Cable	E154336	NA	2015-05-12	
	15051101.S08	PCI Cable	Blue cable 1 meter	NA	2015-05-12	
	15051101.S09	Laptop	Dell E5440	9FSYN32	2015-05-12	
	15051101.S10	AC/DC Adapter	90W 19.5V 4.62A	CN-OJCF3V- 48661-51S-OPIC- A02	2015-05-12	

NA: Not Applicable

5. EUT features

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

802.11a/n/ac	5.2GHz (5150.0 – 5250.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
BT v1.2	2.4GHz (2400.0 – 2483.5 MHz)

6. Remarks and comments

N/A

7. Test Verdicts summary

7.1. 802.11 a/n/ac

FCC part	RSS part	Test name	Verdict
15.247 (a) (2)	RSS-210 Clause A8.2 (a)	6dB Bandwidth	P
15.247 (b) (3)	RSS-210 Clause A8.4 (4)	Maximum output power and antenna gain	P
15.247 (d)	RSS-210 Clause A8.5	Out-of-band Emissions (conducted)	P
15.247 (e)	RSS-210 Clause A8.2 (b)	Power spectral density	P
15.247 (d) 15.209	RSS-210 Clause A8.5	Out-of-band Emissions (radiated)	P

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

8. Document Revision History

Revision #	Date	Modified by	Details
Rev. 00	2015-05-26	J.M. Fortes	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 each chain 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 calibrated average power meter. Measured values for adjustment were within -0.2 dB/+0.3 dB from the declared Target values.

Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	Conducted Power Target Value (dBm)		
					SISO Chain A	SISO Chain B	MIMO at both ports A and B
802.11a	20	6Mbps	149	5745	21.0	21.0	-
			157	5785	21.0	21.0	-
			165	5825	21.0	21.0	-
802.11n	20	HT0 HT8*	149	5745	21.0	21.0	18.0
			157	5785	20.5	21.0	18.0
			165	5825	21.0	21.0	18.0
	40	HT0 HT8*	151	5755	21.0	21.0	18.0
159			5795	21.0	21.0	18.0	
802.11ac	80	VHT0	155	5775	21.0	21.0	16.5

* Note: HT8 for MIMO modes only.

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:

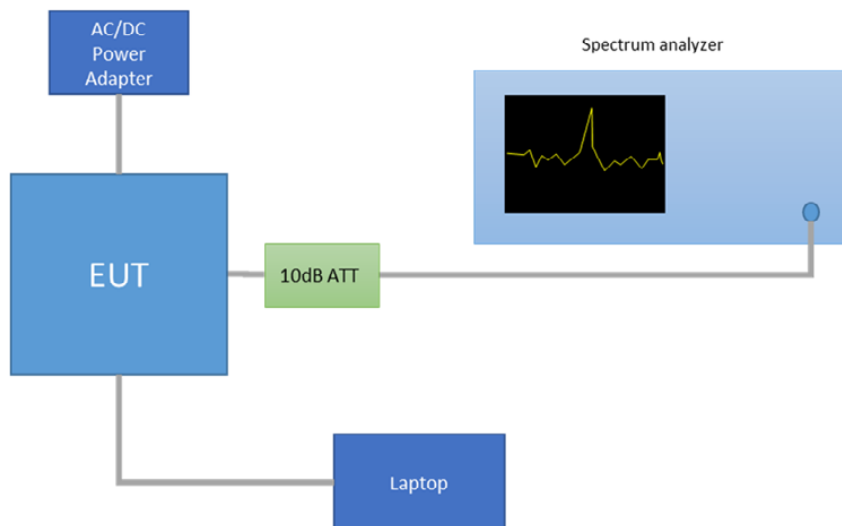
802.11a → 6Mbps
 802.11n20 and 802.11n40 (SISO) → HT0
 802.11n20 and 802.11n40 (MIMO) → HT8
 802.11ac80 (SISO/MIMO) → VHT0

A.2 Measurement system

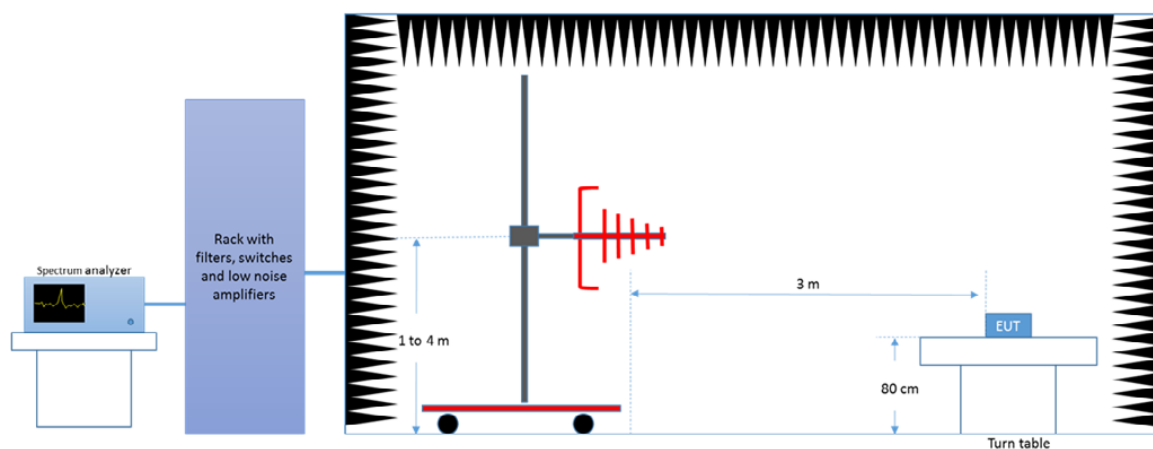
Measurements were performed using the following setups, made in accordance to the general provisions of FCC DTS Measurement KDB 558074 D01 DTS Meas Guidance.

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.

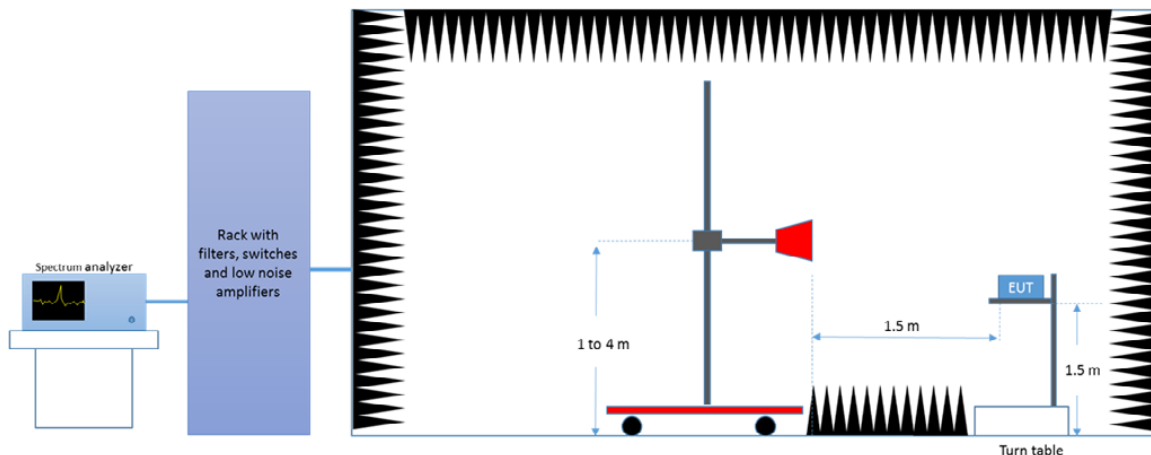
Conducted Setup



Radiated Setup < 1GHz



Radiated Setup > 1GHz



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	2014-05-03	2016-05-03
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2014-05-03	2016-05-03
0138	Horn antenna 1 GHz – 6.4 GHz	3117	00152266	ETS Lindgren	2014-03-04	2016-03-04
0141	Horn Antenna 6.4 GHz – 18 GHz	3117-PA	00157736	ETS Lindgren	2014-06-03	2016-06-03
0248	Horn Antenna 1 GHz – 18 GHz	3117	00167062	ETS Lindgren	2014-06-23	2016-06-23
0139	Horn Antenna 18GHz – 26GHz	114514	00167100	ETS Lindgren	2014-04-25	2016-04-25
0140	Horn Antenna 26GHz – 40GHz	120722	00169638	ETS Lindgren	2014-06-16	2016-06-16
0135	Anechoic chamber	FACT 3	RFD_FA_100	ETS Lindgren	2014-06-05	2016-06-05

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 test < 1GHz	± 3.8
Radiated test 1GHz - 40 GHz	± 4.7

Annex B. Test Results

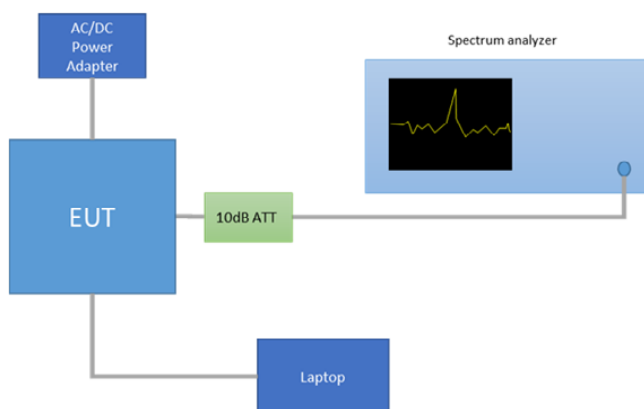
B.1 6dB & 99% Bandwidth

Test limits

FCC part	RSS part	Limits
15.247 (a) (2)	RSS-210 Clause A8.2 (a)	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

The setup below was used to measure the 6dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

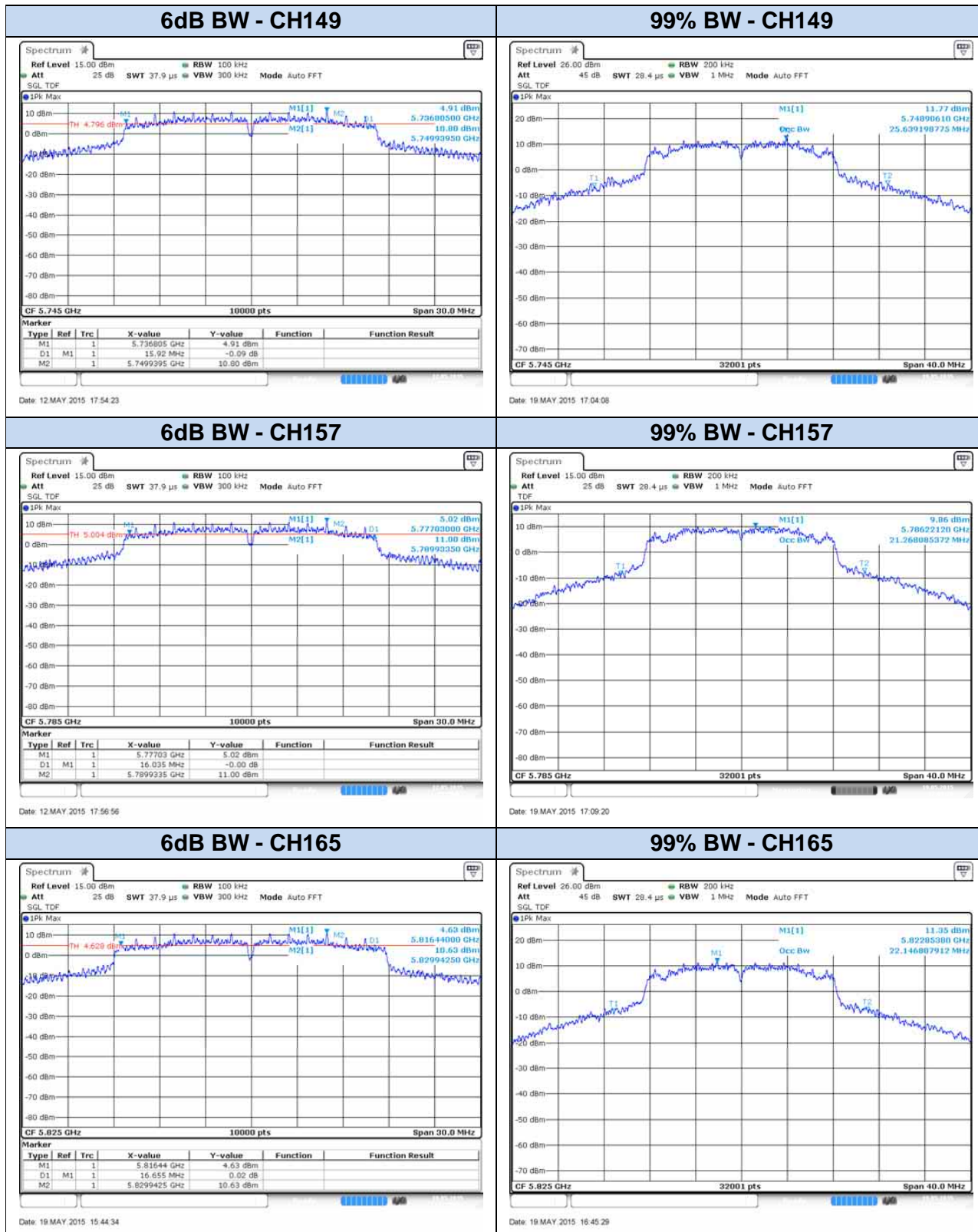


Results tables

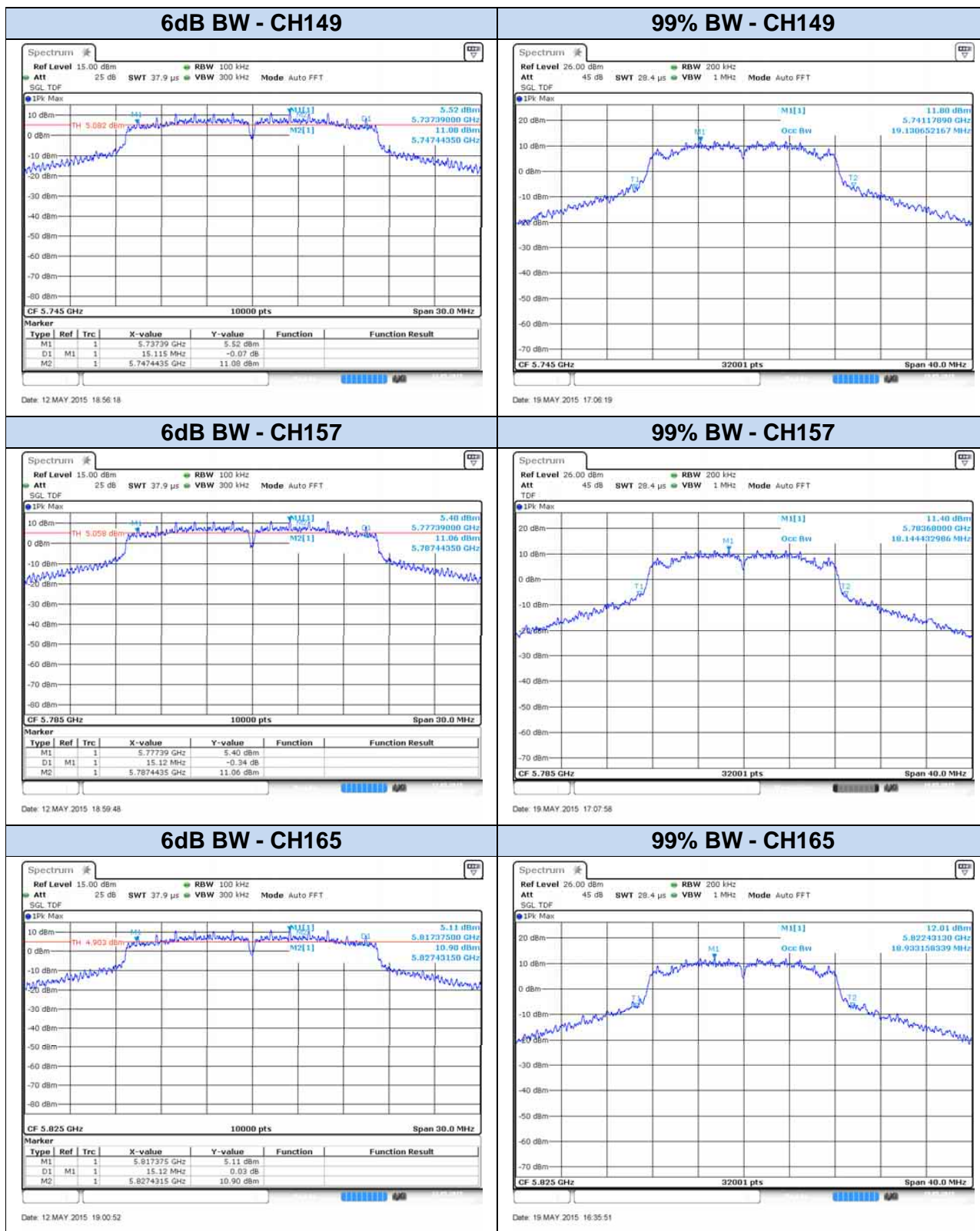
Mode	Rate	Antenna	Channel	Frequency [MHz]	6dB BW [MHz]	99% BW [MHz]
802.11a	6Mbps	SISO CHAIN A	149	5745	15.92	25.64
			157	5785	16.04	21.27
			165	5825	16.66	22.15
		SISO CHAIN B	149	5745	15.12	19.13
			157	5785	15.12	18.14
			165	5825	15.12	18.93
802.11n20	HT0	SISO CHAIN A	149	5745	16.91	25.45
			157	5785	16.30	24.37
			165	5825	17.14	23.82
		SISO CHAIN B	149	5745	15.12	18.68
			157	5785	15.12	18.59
			165	5825	15.88	18.34
	HT8	MIMO CHAIN A	149	5745	15.12	18.12
			157	5785	15.12	17.99
			165	5825	15.12	17.94
		MIMO CHAIN B	149	5745	16.91	17.73
			157	5785	16.91	17.72
			165	5825	16.91	17.68
802.11n40	HT0	SISO CHAIN A	151F	5755	35.02	39.48
			159F	5795	35.01	43.57
		SISO CHAIN B	151F	5755	35.07	36.37
			159F	5795	35.07	36.64
	HT8	MIMO CHAIN A	151F	5755	35.07	36.45
			159F	5795	35.07	36.37
		MIMO CHAIN B	151F	5755	35.07	36.10
			159F	5795	35.07	36.22
802.11ac80	VHT0	SISO CHAIN A	155ac80	5775	72.51	76.42
		SISO CHAIN B	155ac80	5775	72.54	75.16
		MIMO CHAIN A	155ac80	5775	75.07	75.52
		MIMO CHAIN B	155ac80	5775	75.06	75.32

Results screenshot

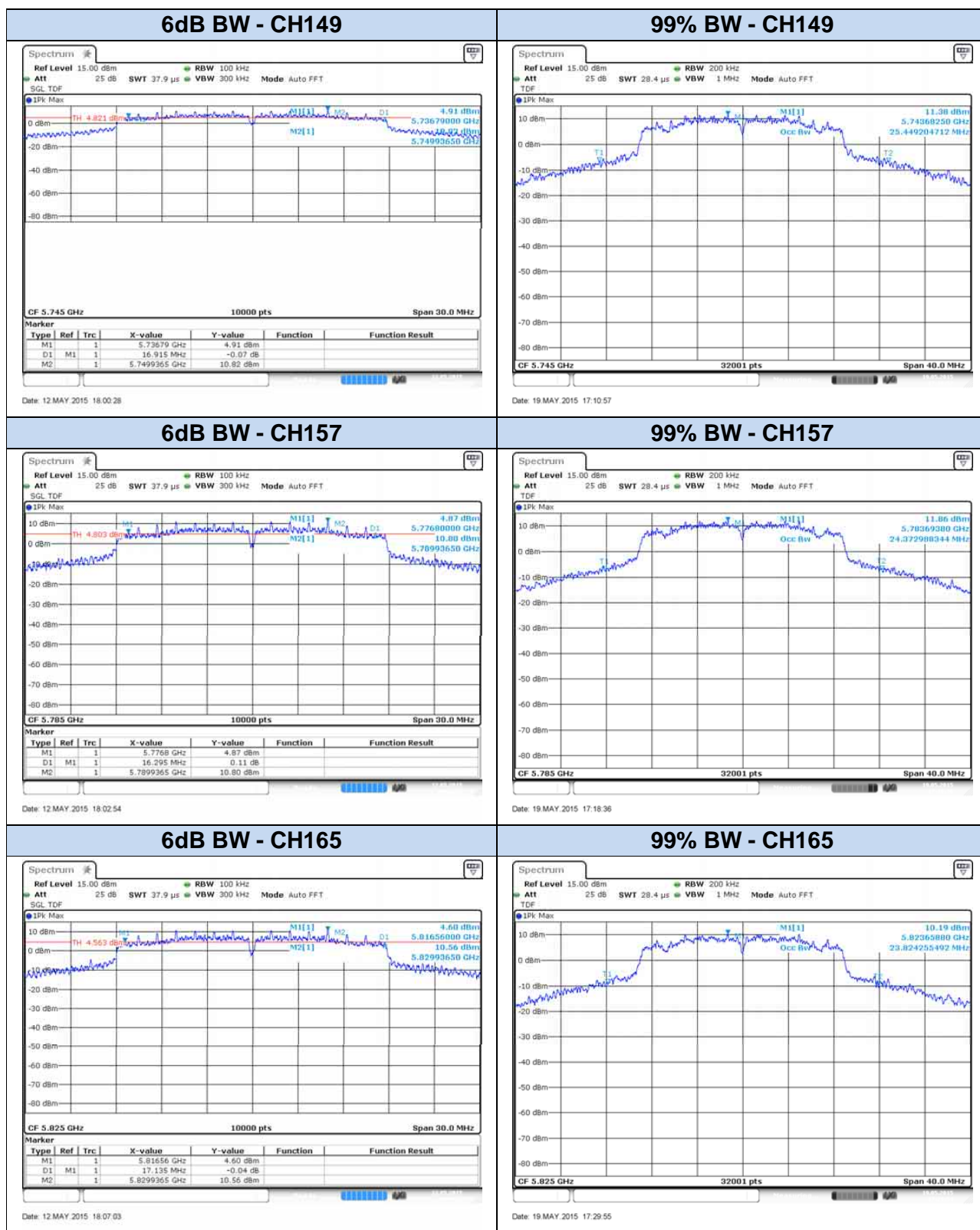
802.11a, 6Mbps – Chain A



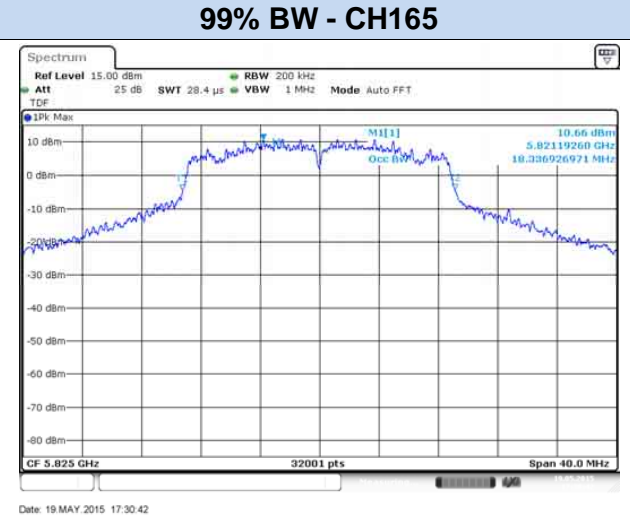
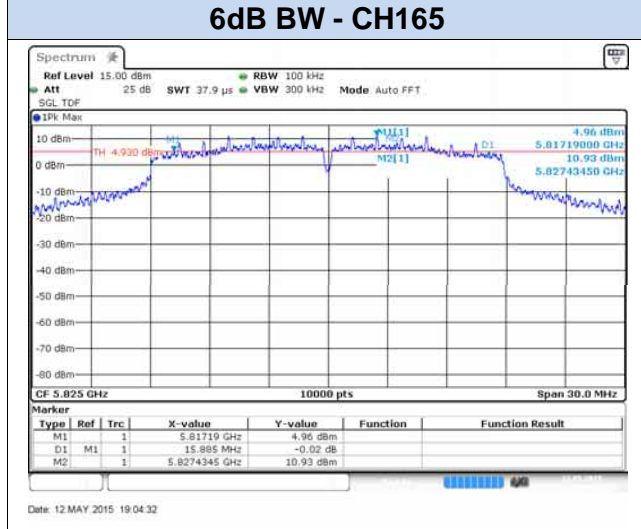
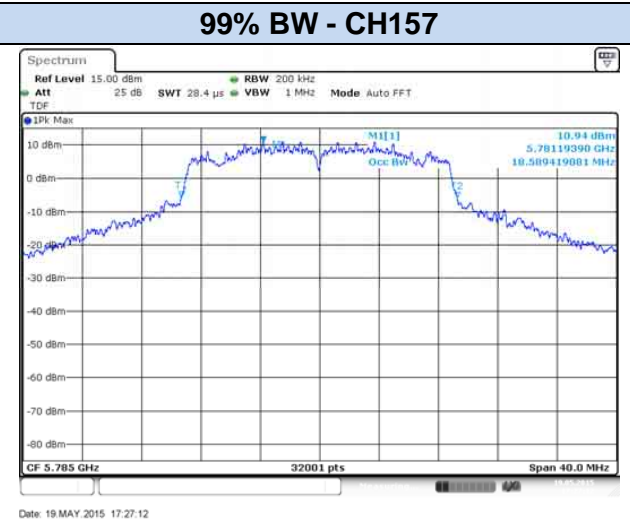
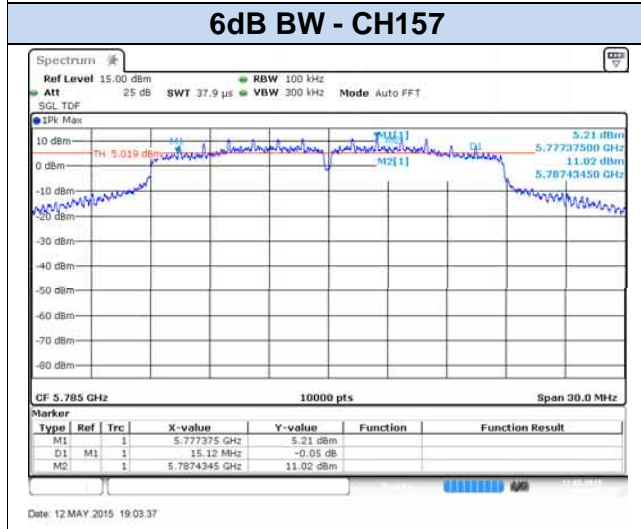
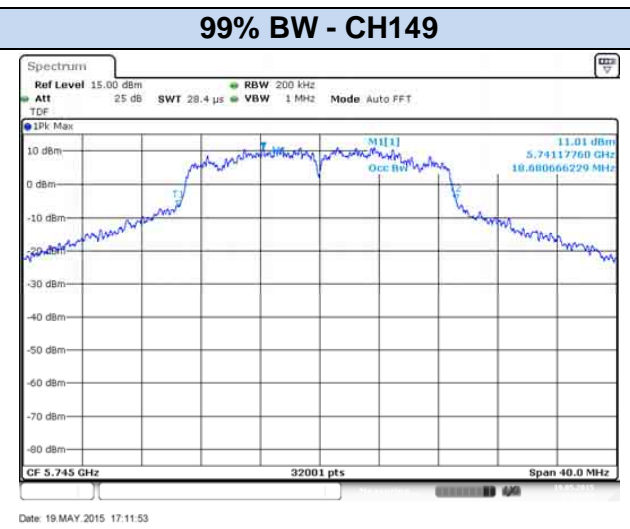
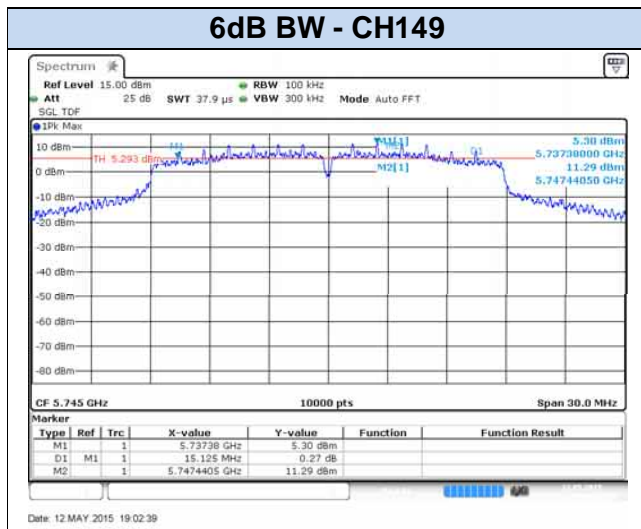
802.11a, 6Mbps – Chain B



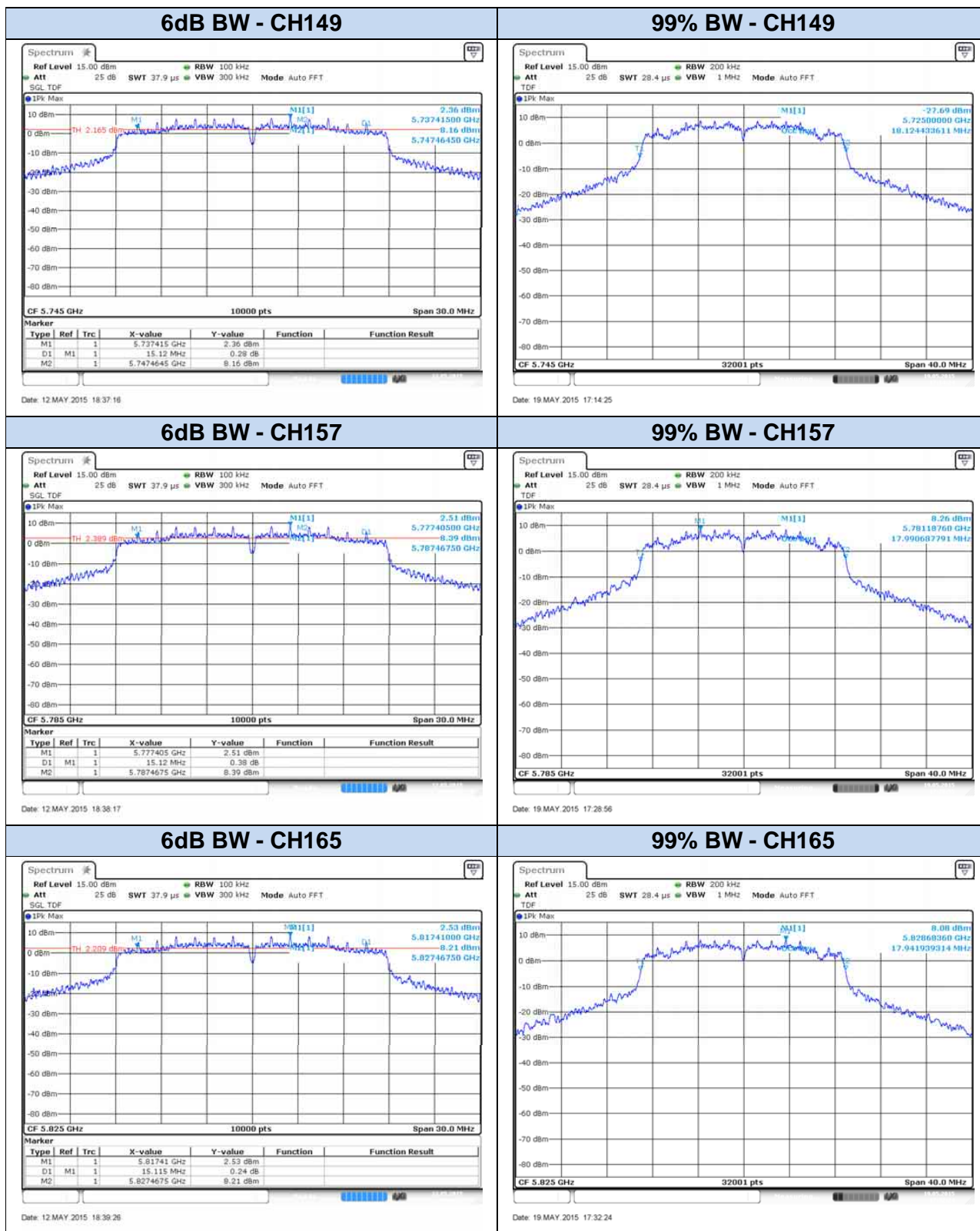
802.11n20, HT0 (SISO) – Chain A



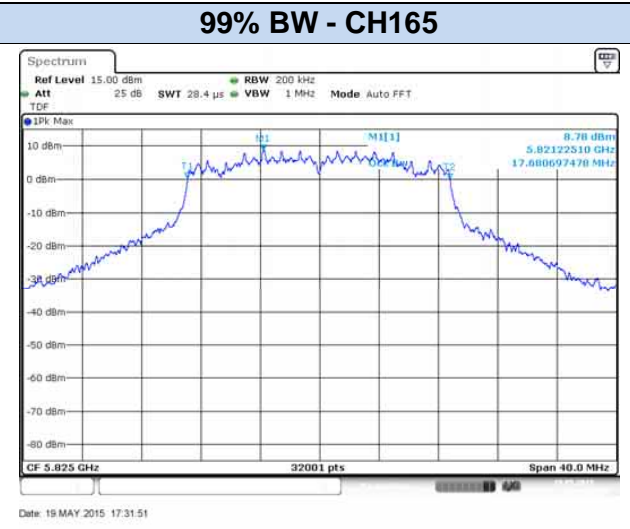
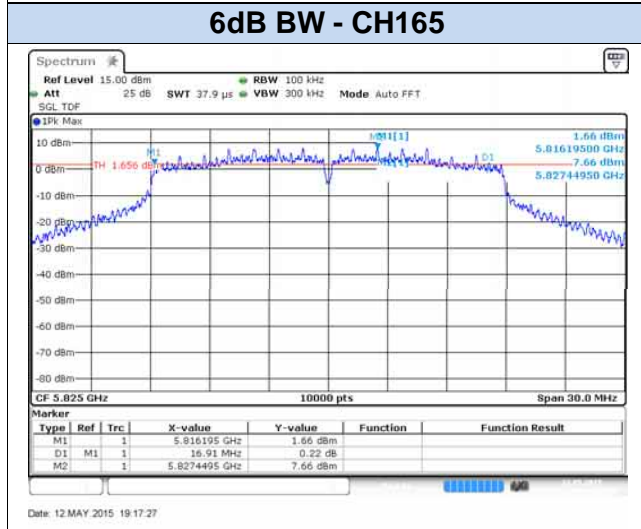
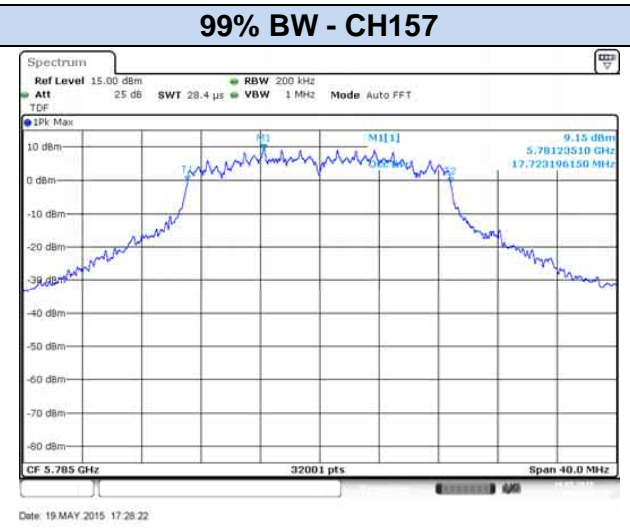
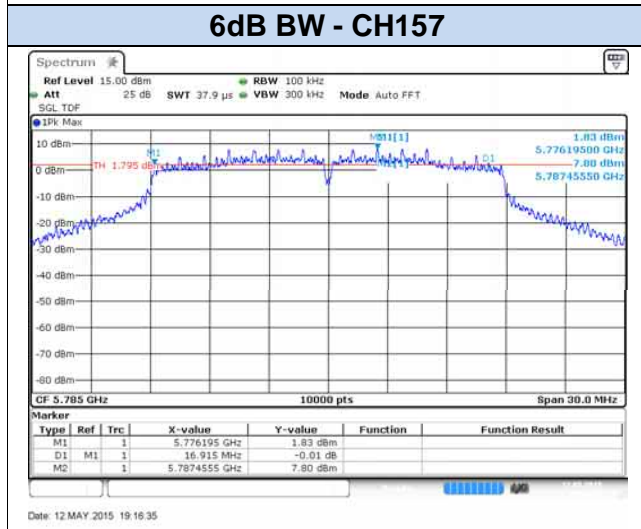
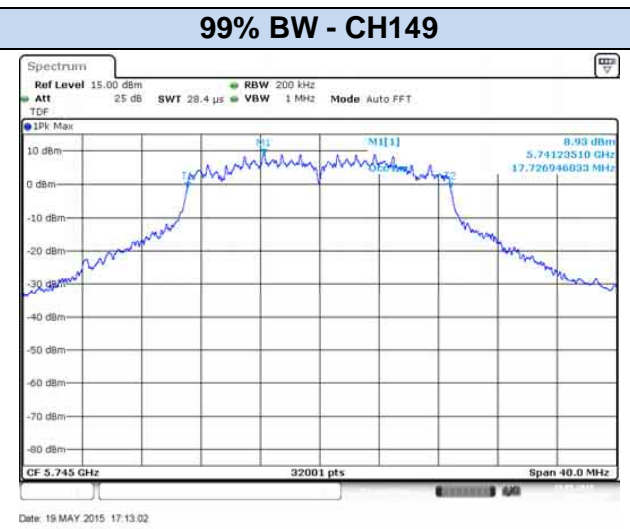
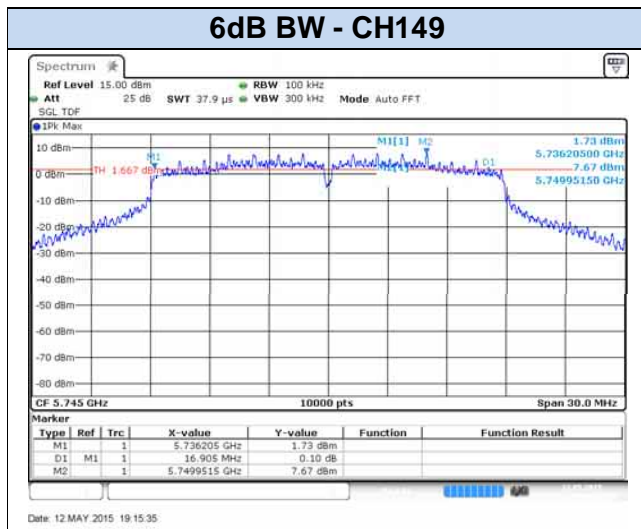
802.11n20, HT0 (SISO) – Chain B



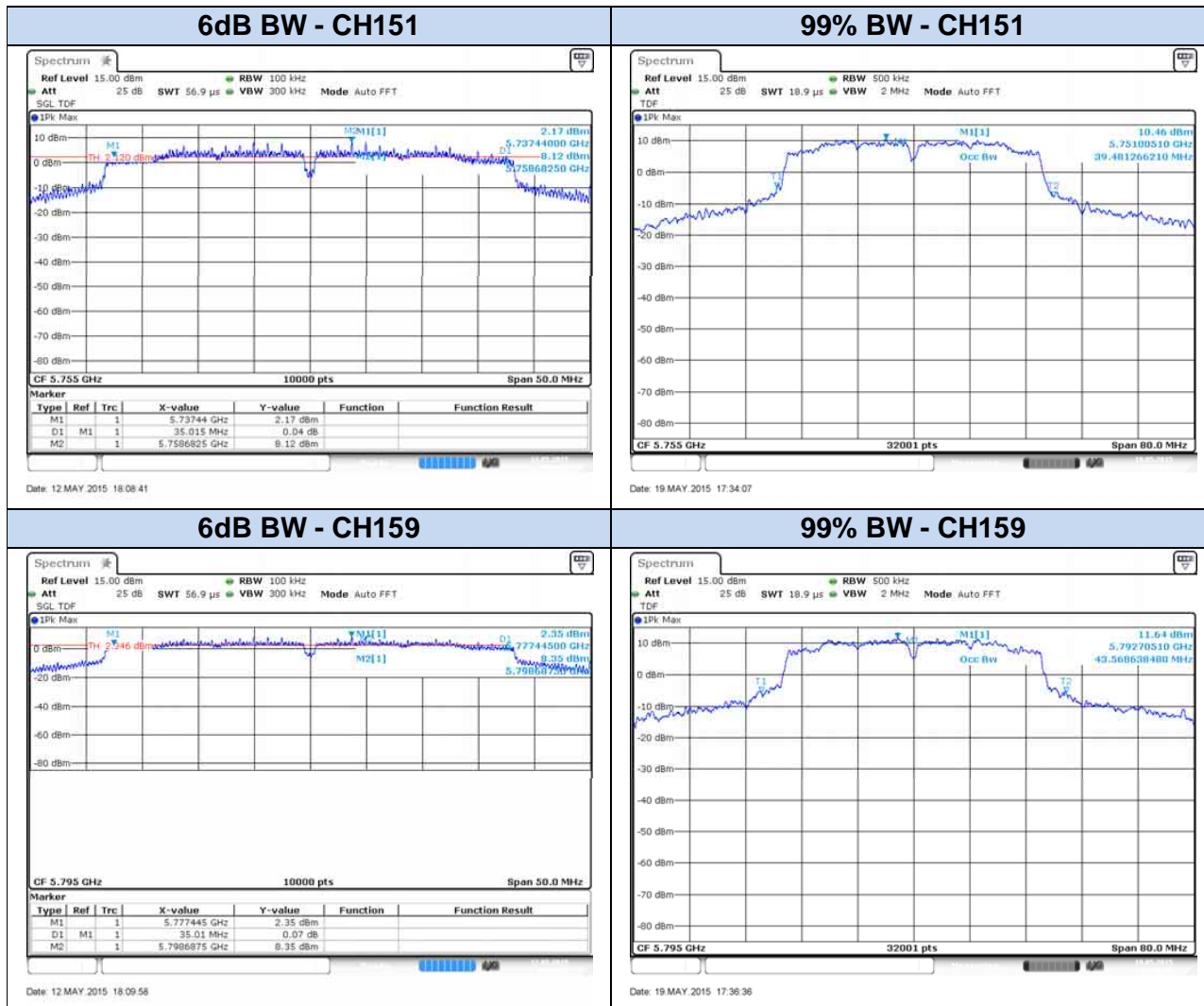
802.11n20, HT8 (MIMO) – Chain A



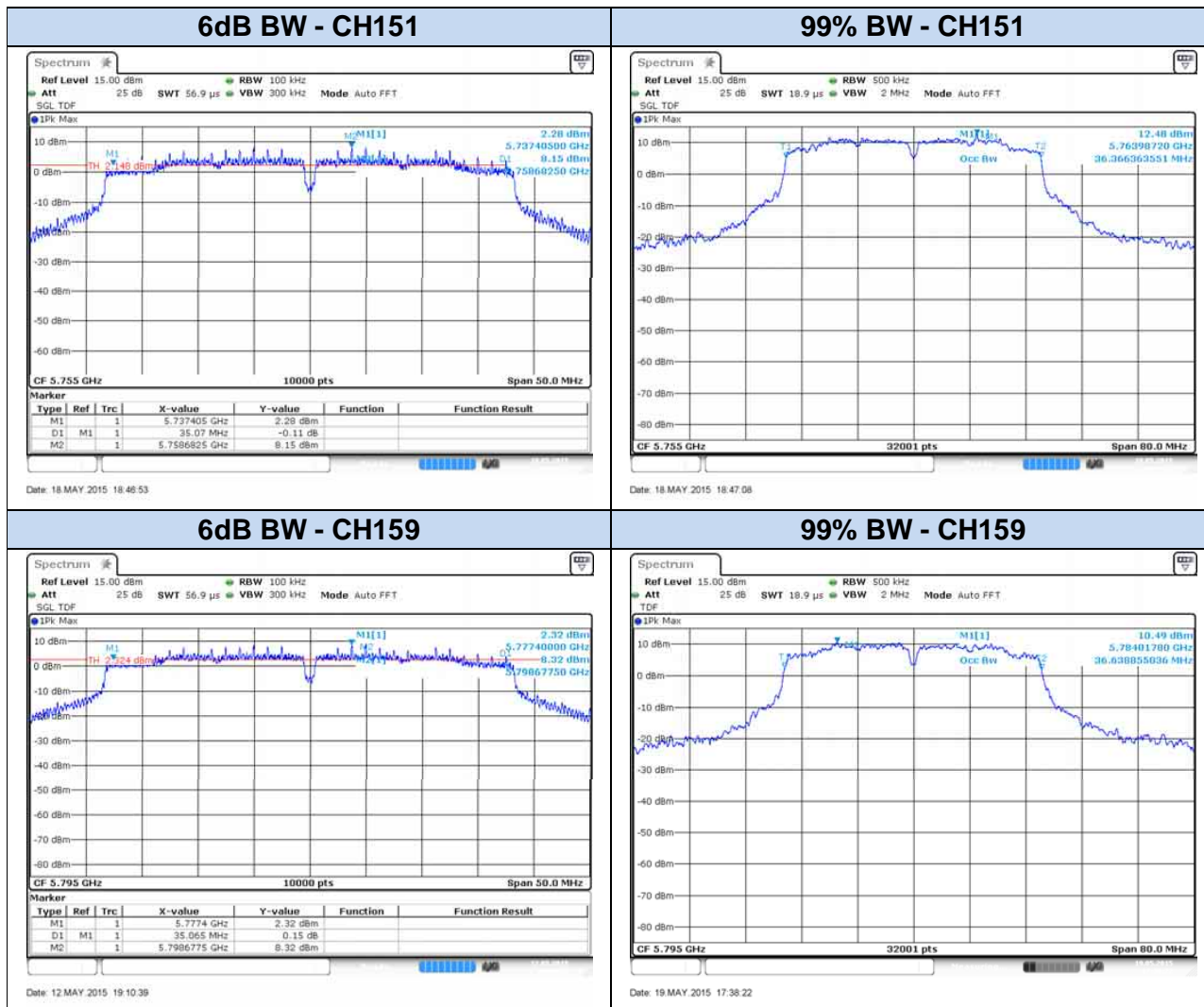
802.11n20, HT8 (MIMO) – Chain B



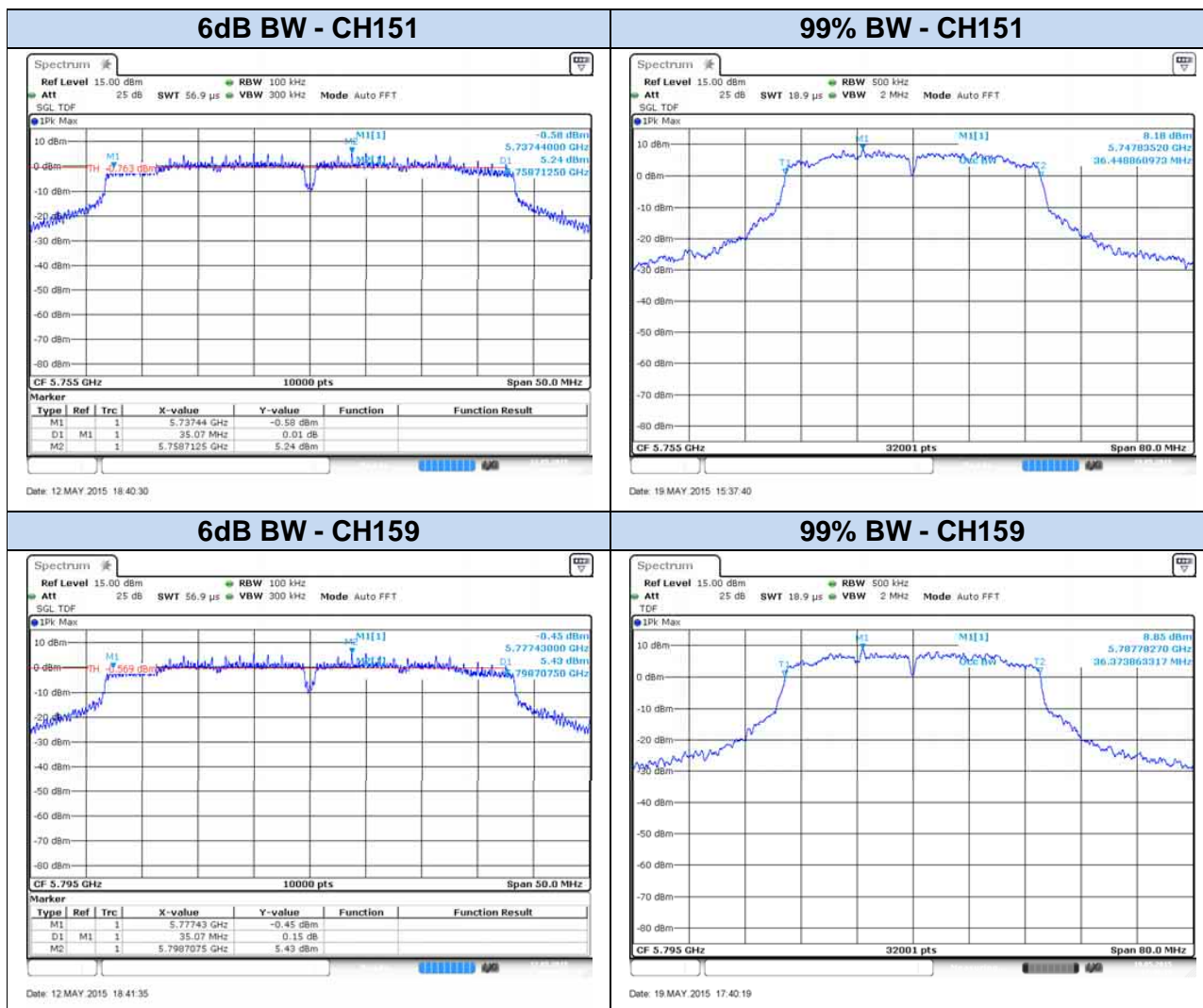
802.11n40, HT0 (SISO) – Chain A



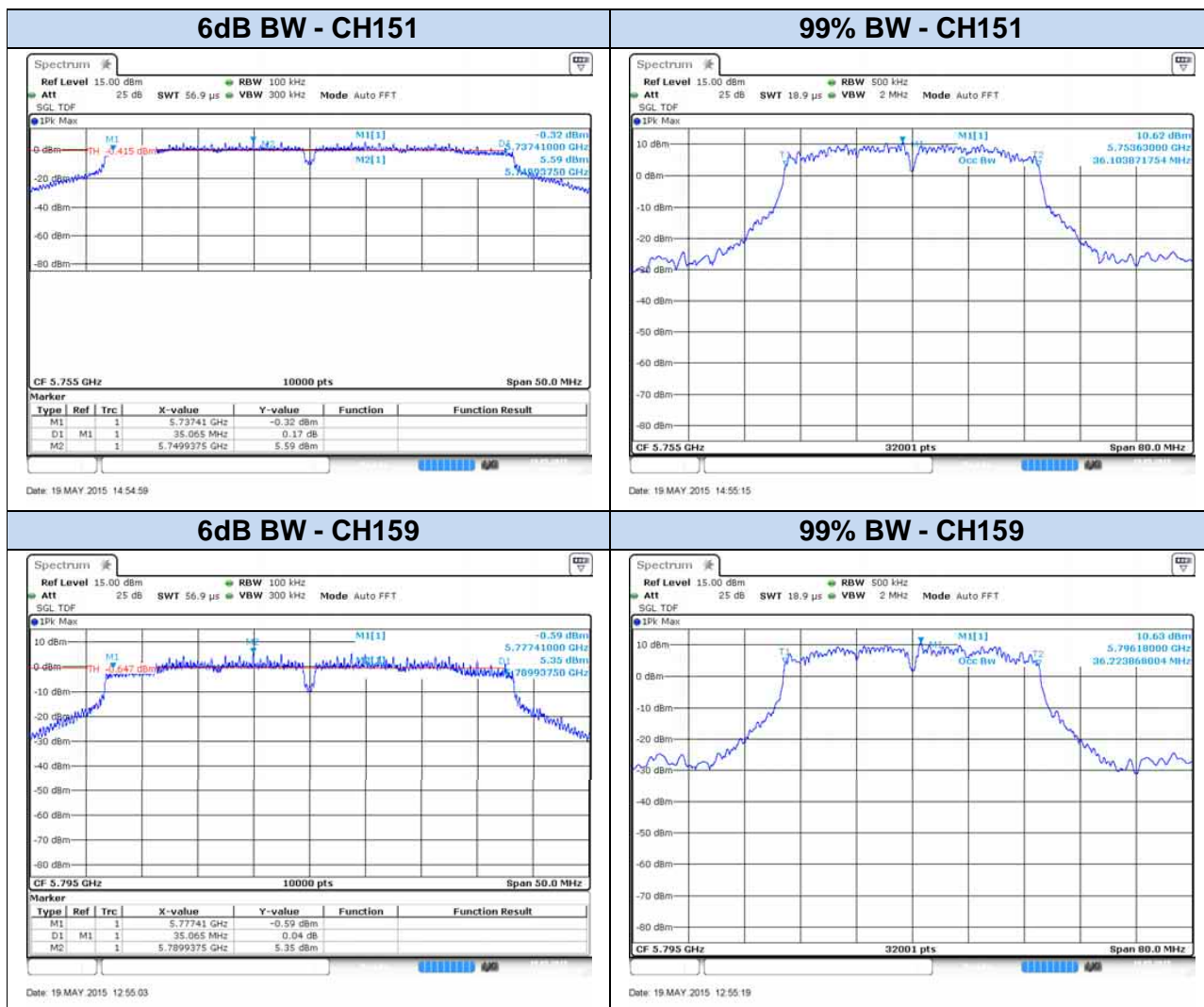
802.11n40, HT0 (SISO) – Chain B



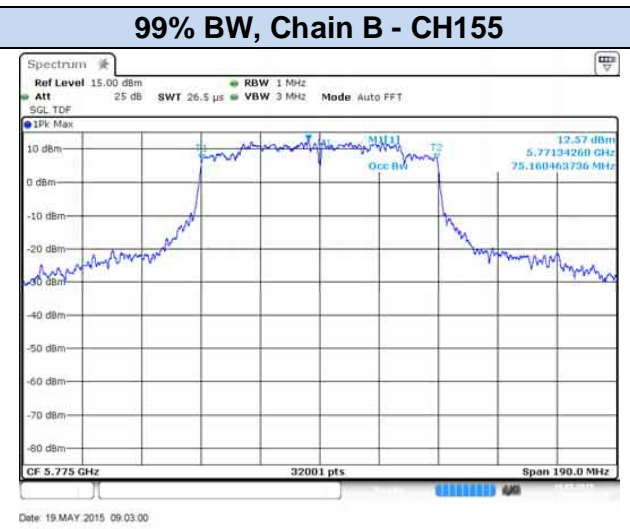
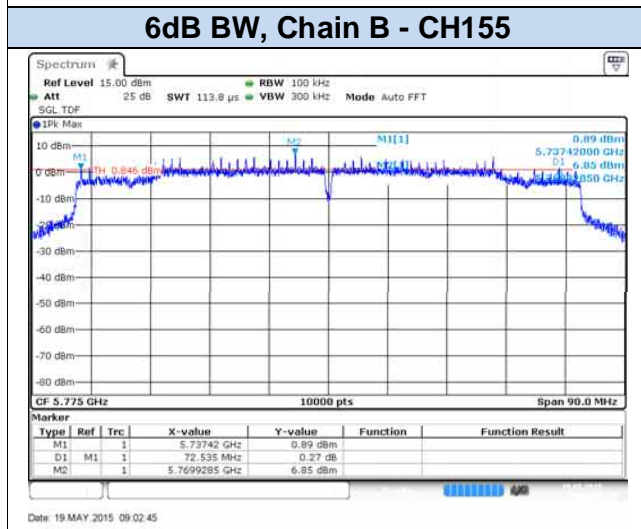
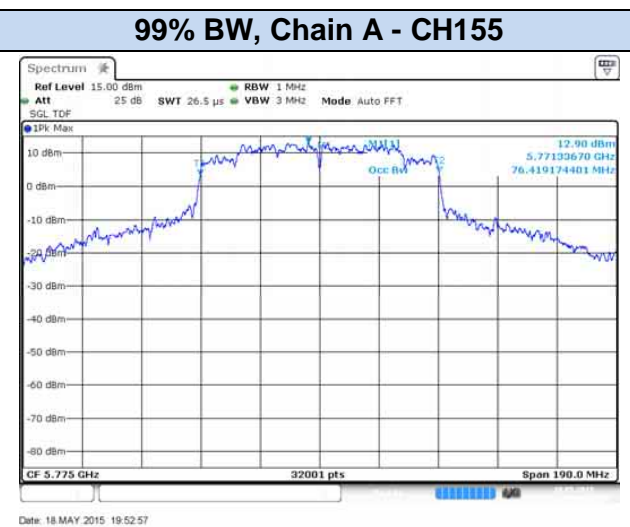
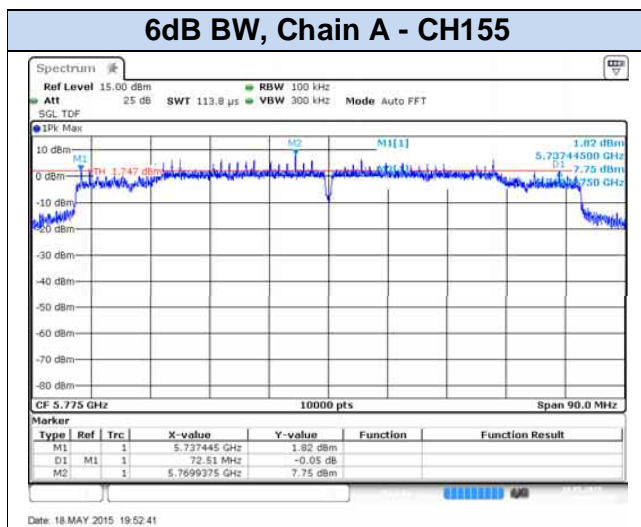
802.11n40, HT8 (MIMO) – Chain A



802.11n40, HT8 (MIMO) – Chain B

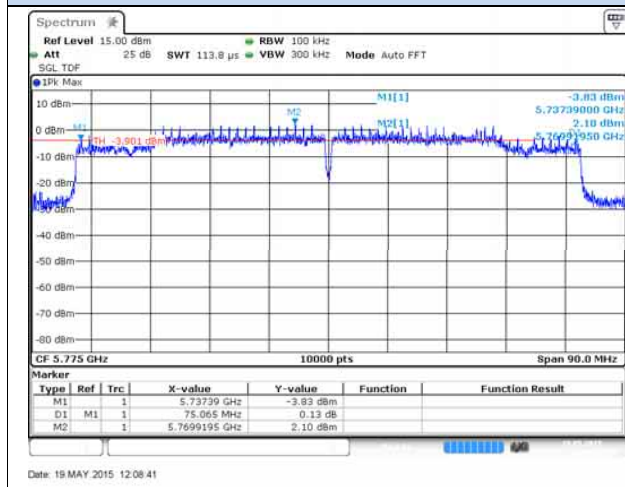


802.11ac80, VHT0 (SISO)

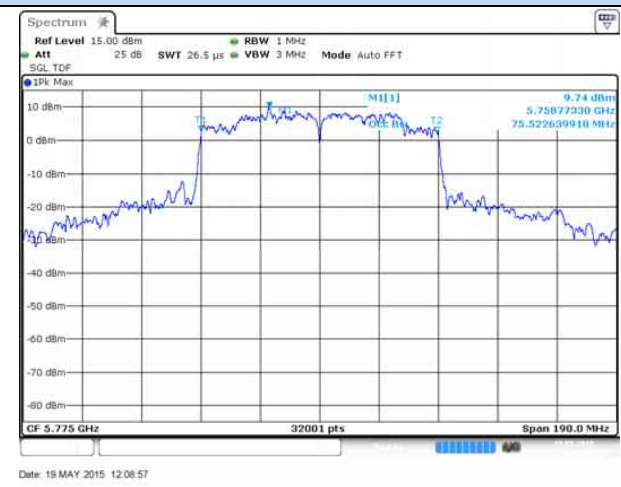


802.11ac80, VHT0 (MIMO)

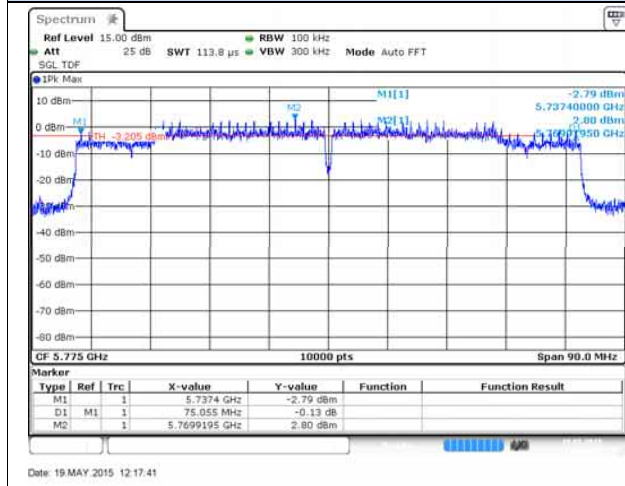
6dB BW, Chain A - CH155



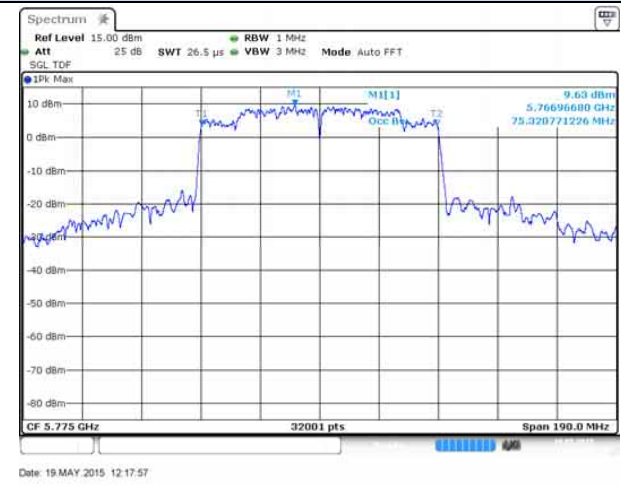
99% BW, Chain A - CH155



6dB BW, Chain B - CH155



99% BW, Chain B - CH155



B.2 Maximum Output Power and antenna gain

Test limits

FCC part	RSS part	Limits
15.247 (b) (3)	RSS-210 Clause A8.4 (4)	<p>(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:</p> <p>(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level.</p> <p>(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.</p>

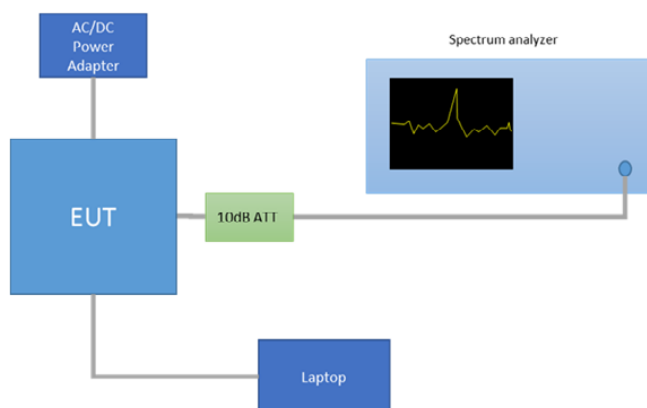
Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to Method AVGSA-2, defined in paragraph 9.2.2.4 of FCC KDB 558074 D01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

For MIMO mode, according to the measure-and-sum approach defined in FCC KDB 662911 - Guidance for Emission Testing of Transmitters with Multiple Outputs in the Same Band, 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. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



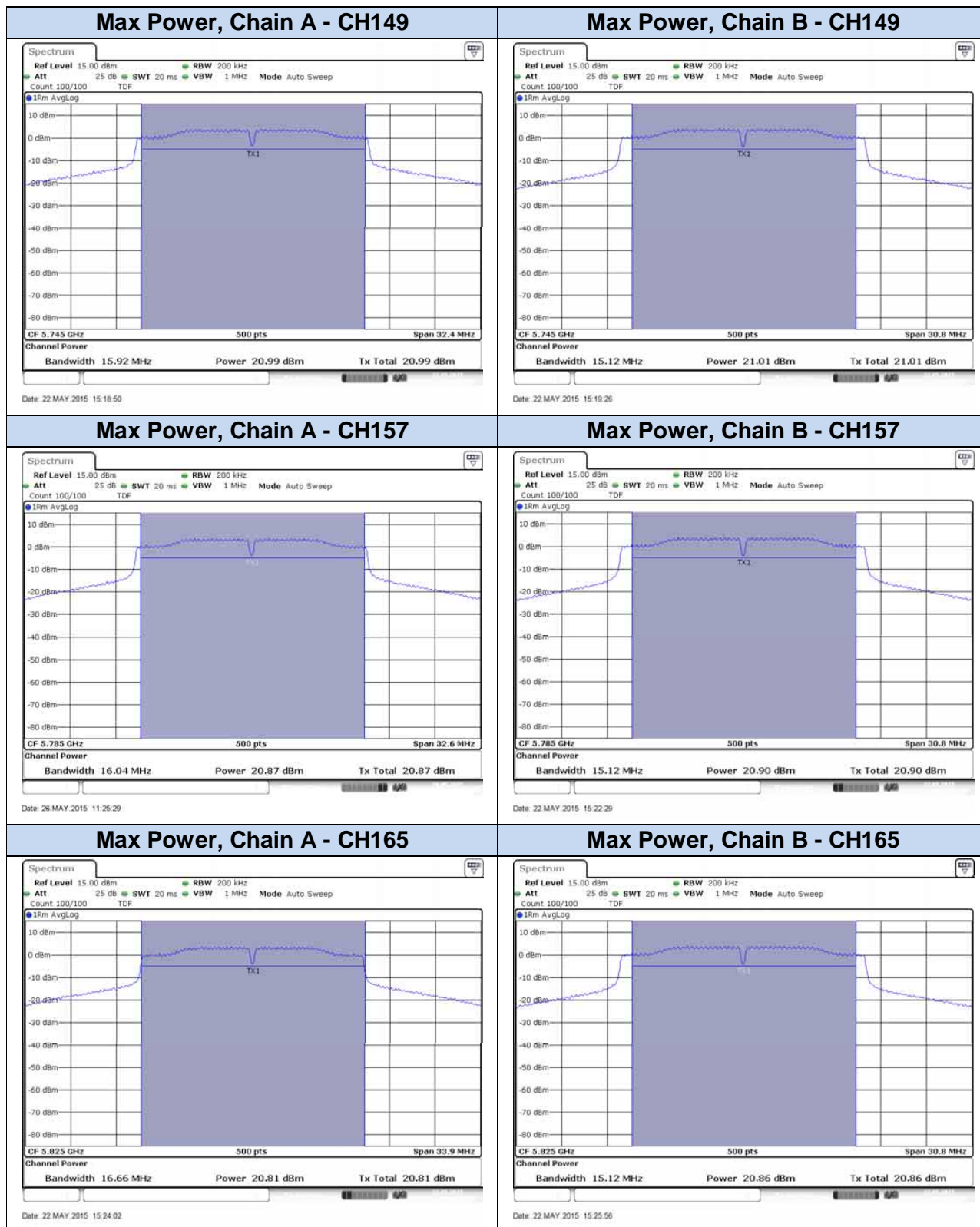
The declared maximum antenna gain is 5dBi.

Results tables

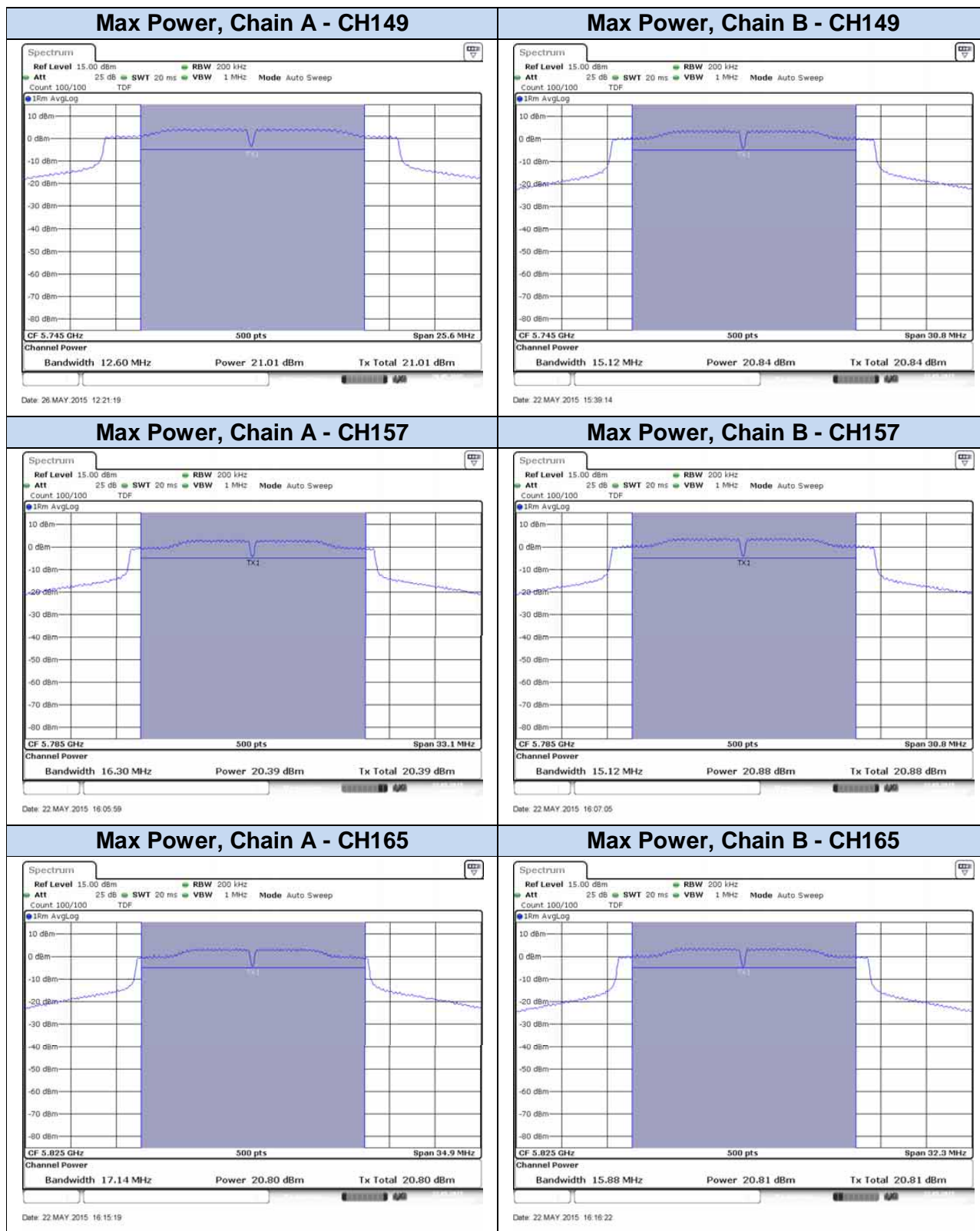
Mode	Rate	Meas. Duty Cycle [%]	CH	Frequency [MHz]	Antenna	Power [dBm]		
						Measured Conducted RMS	Duty cycle Compensated	EIRP
802.11a	6Mbps	0.98	149	5745	SISO CHAIN A	20.99	21.06	26.06
					SISO CHAIN B	21.01	21.08	26.08
			157	5785	SISO CHAIN A	20.87	20.94	25.94
					SISO CHAIN B	20.90	20.97	25.97
			165	5825	SISO CHAIN A	20.81	20.88	25.88
					SISO CHAIN B	20.86	20.93	25.93
802.11n20	HT0	0.99	149	5745	SISO CHAIN A	21.03	21.08	26.08
					SISO CHAIN B	20.84	20.89	25.89
			157	5785	SISO CHAIN A	20.39	20.55	25.55
					SISO CHAIN B	20.88	21.04	26.04
			165	5825	SISO CHAIN A	20.80	20.85	25.85
					SISO CHAIN B	20.81	20.86	25.86
	HT8	0.96	149	5745	MIMO CHAIN A	17.97	18.13	23.13
					MIMO CHAIN B	17.82	17.98	22.98
			157	5785	MIMO CHAIN A	17.86	17.91	22.91
					MIMO CHAIN B	17.92	17.97	22.97
			165	5825	MIMO CHAIN A	17.76	17.92	22.92
					MIMO CHAIN B	17.81	17.97	22.97
802.11n40	HT0	0.97	151F	5755	SISO CHAIN A	21.03	21.17	26.17
					SISO CHAIN B	21.08	21.22	26.22
			159F	5795	SISO CHAIN A	20.93	21.24	26.24
					SISO CHAIN B	21.00	21.31	26.31
			151F	5755	MIMO CHAIN A	17.67	17.81	22.81
					MIMO CHAIN B	18.12	18.26	23.26
	159F	5795	MIMO CHAIN A	17.85	18.16	23.16		
			MIMO CHAIN B	17.99	18.30	23.30		

Mode	Rate	Meas. Duty Cycle [%]	CH	Frequency [MHz]	Antenna	Power [dBm]		
						Measured Conducted RMS	Duty cycle Compensated	EIRP
802.11ac80	VHT0	0.94	155ac80	5775	SISO CHAIN A	21.01	21.30	26.30
					SISO CHAIN B	20.71	21.00	26.00
	VHT8	0.63	155ac80	5775	MIMO CHAIN A	16.32	18.32	23.32
					MIMO CHAIN B	16.52	18.52	23.52

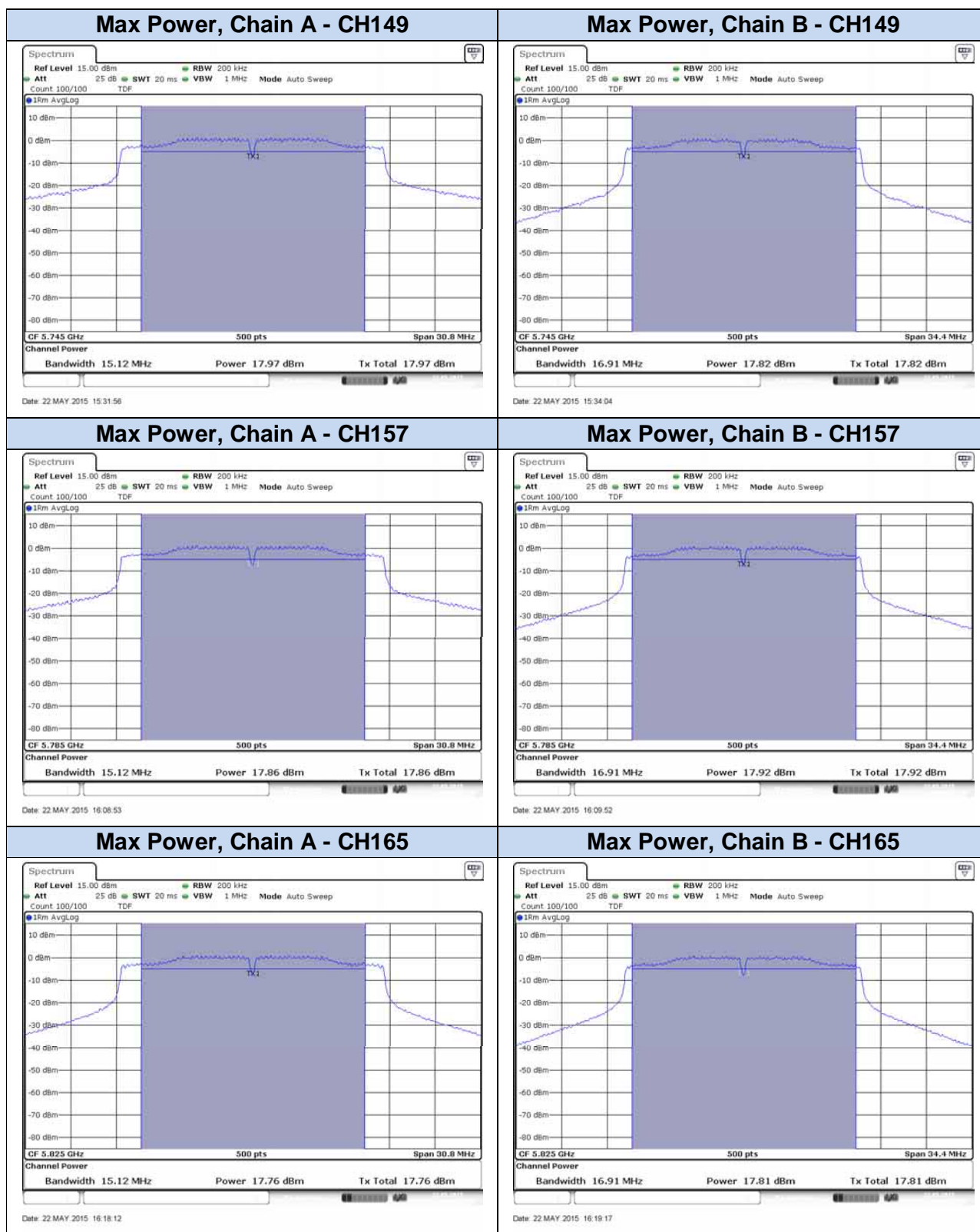
MIMO modes – Combined results					Power [dBm]	
Mode	Rate	Channel	Frequency (MHz)	Antenna	Combined, Duty Cycle compensated	EIRP
802.11n20	HT8	149	5745	MIMO CHAIN A + CHAIN B	21.1	26.1
		157	5785		21.1	26.1
		165	5825		21.0	26.0
802.11n40	HT8	151F	5755		21.2	26.2
		159F	5795		21.3	26.3
802.11ac80	VHT8	155ac80	5775		21.3	26.3

Results screenshot**802.11a, 6Mbps**

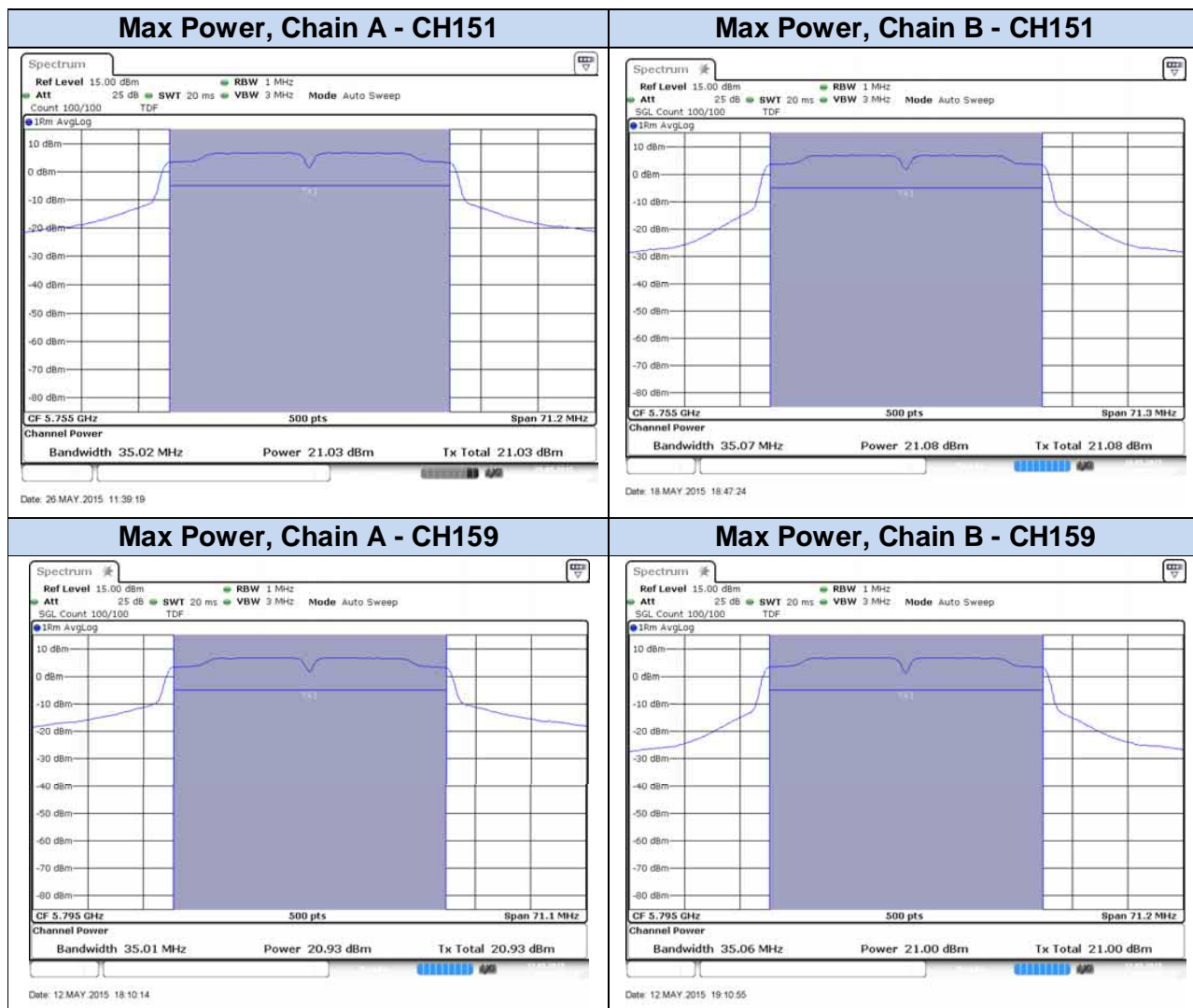
802.11n20, HT0 (SISO)



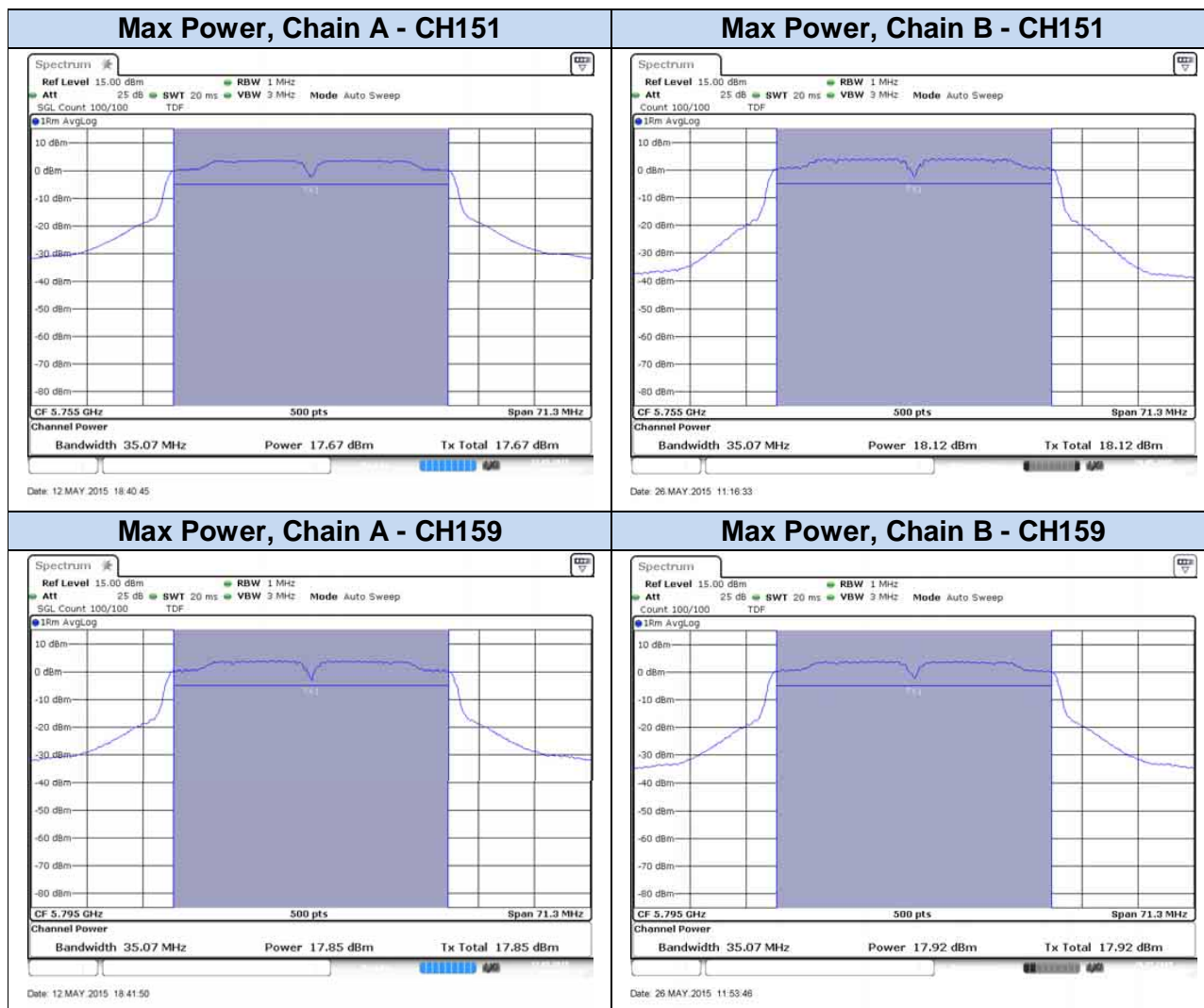
802.11n20, HT8 (MIMO)



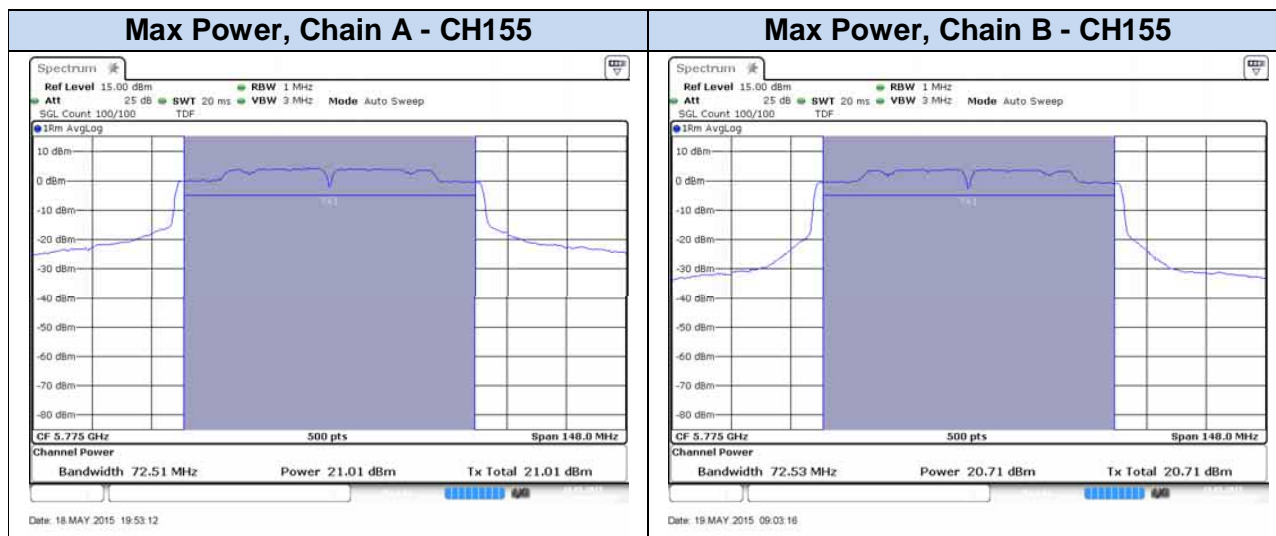
802.11n40, HT0 (SISO)



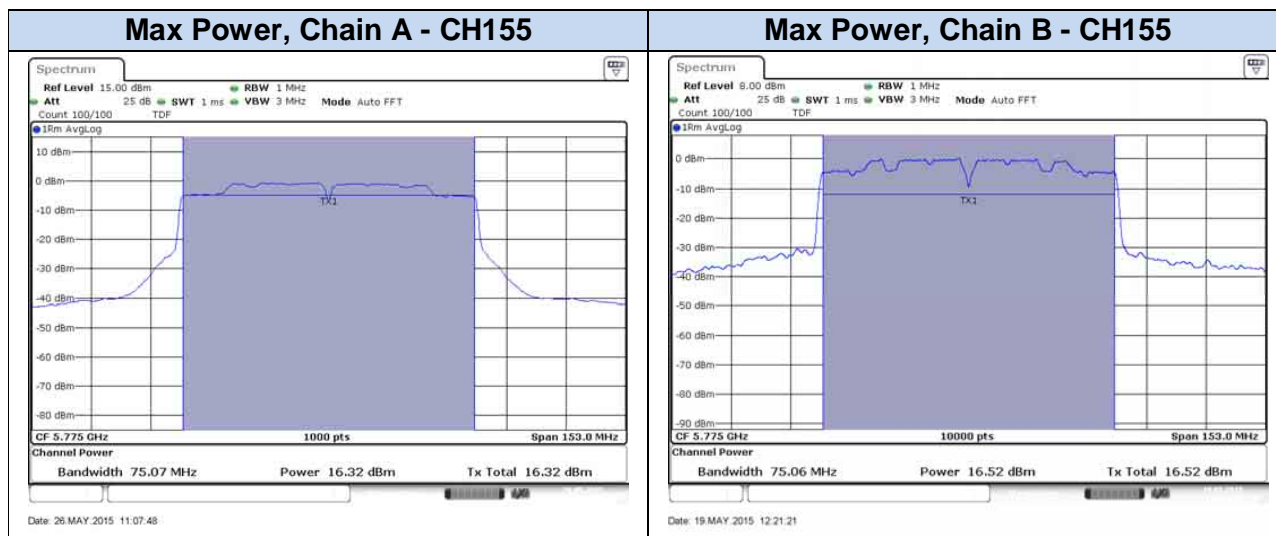
802.11n40, HT8 (MIMO)



802.11ac80, VHT0 (SISO)



802.11ac80, VHT0 (MIMO)



B.3 Out-of-band emissions (conducted)

Test limits

FCC part	RSS part	Limits
15.247 (d)	RSS-210 Clause A8.5	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

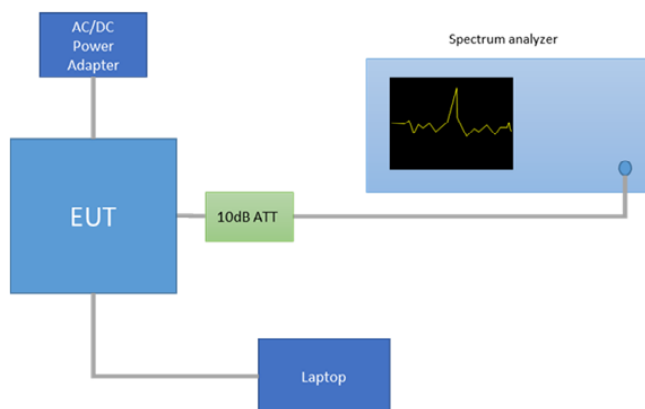
Test procedure

The PSD reference values to determine the -20dB compliance are taken from *B.4 Power Spectral Density*.

In case of Band Edge measurements falling in restricted bands, the declared Antenna Gain is also compensated in the graph.

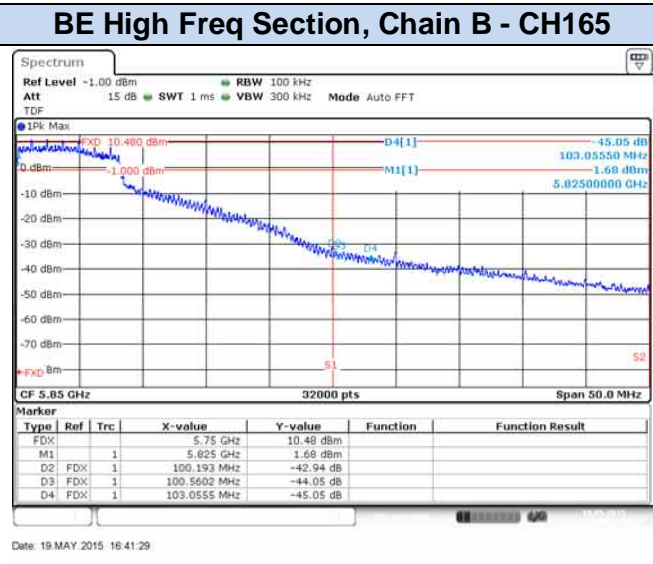
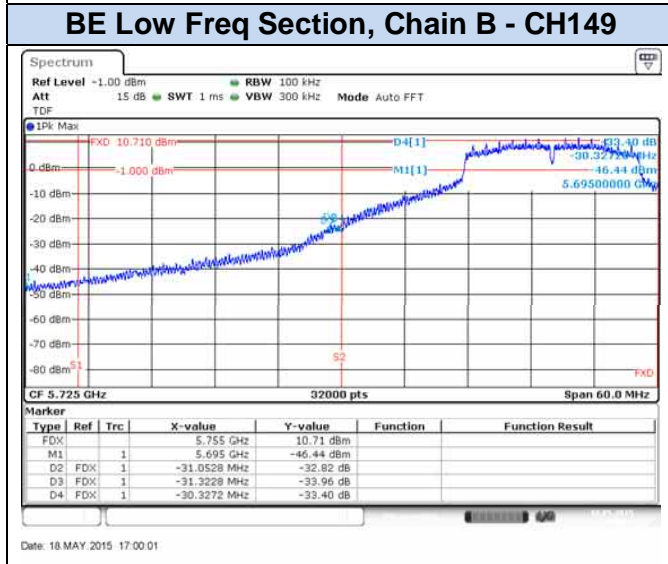
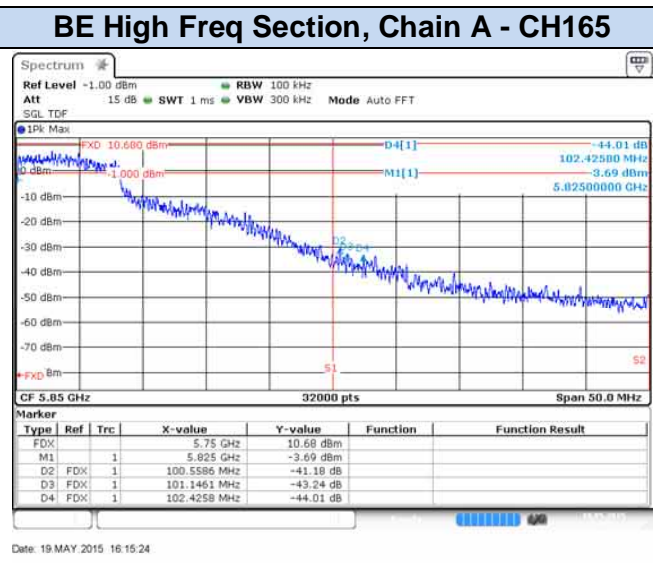
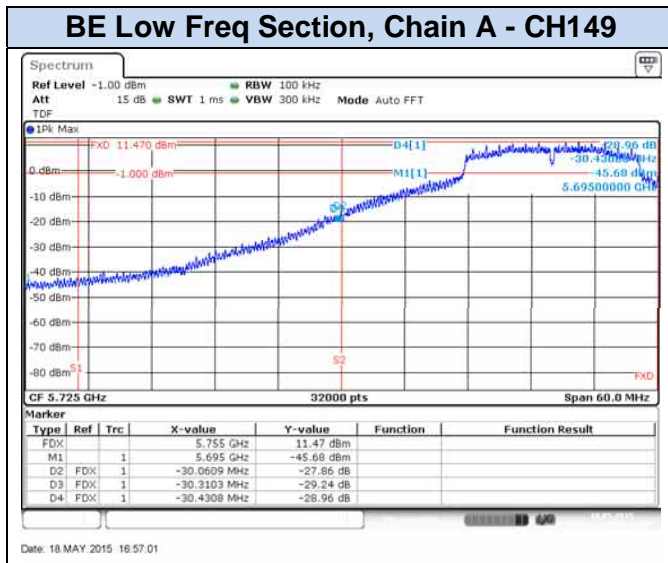
The declared maximum antenna gain is 5dBi.

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



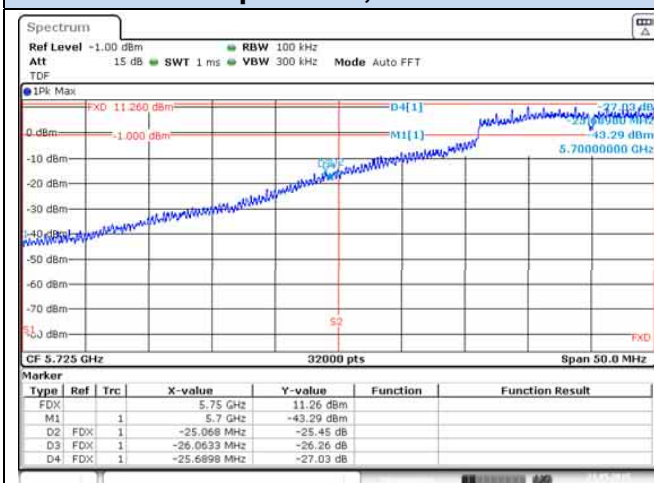
Band Edge results Screenshot

802.11a, 6Mbps



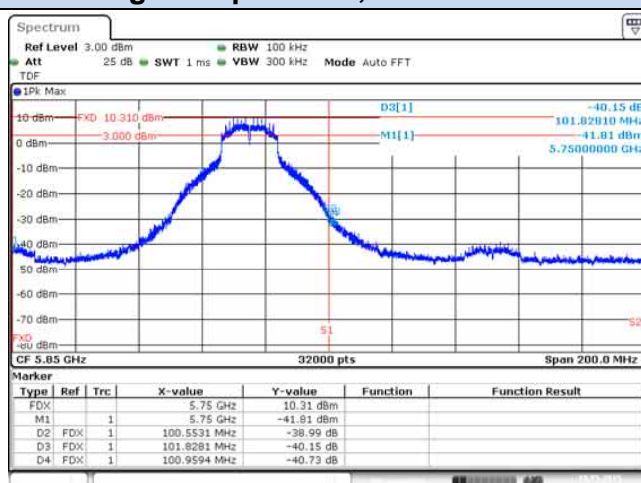
802.11n20, HT0 (SISO)

BE Low Freq Section, Chain A - CH149



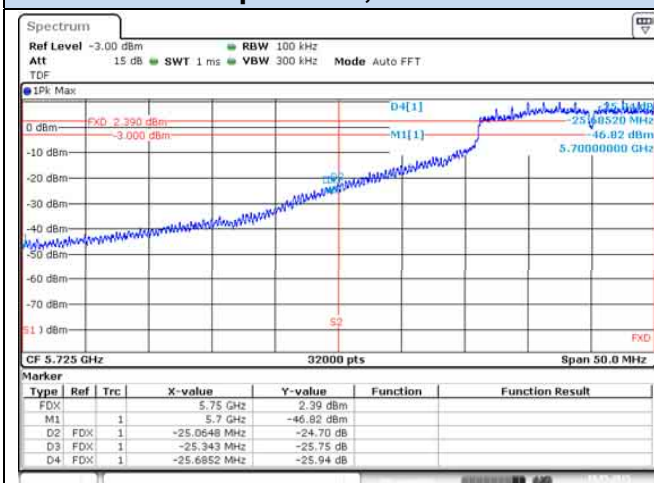
Date: 21 MAY 2015 17:21:37

BE High Freq Section, Chain A - CH165



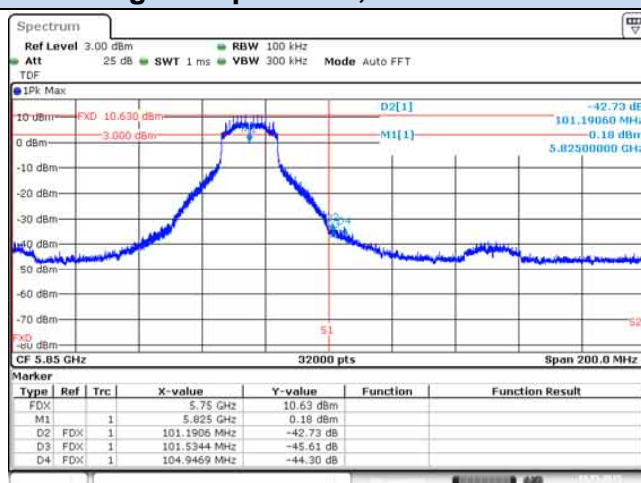
Date: 19 MAY 2015 19:18:28

BE Low Freq Section, Chain B - CH149



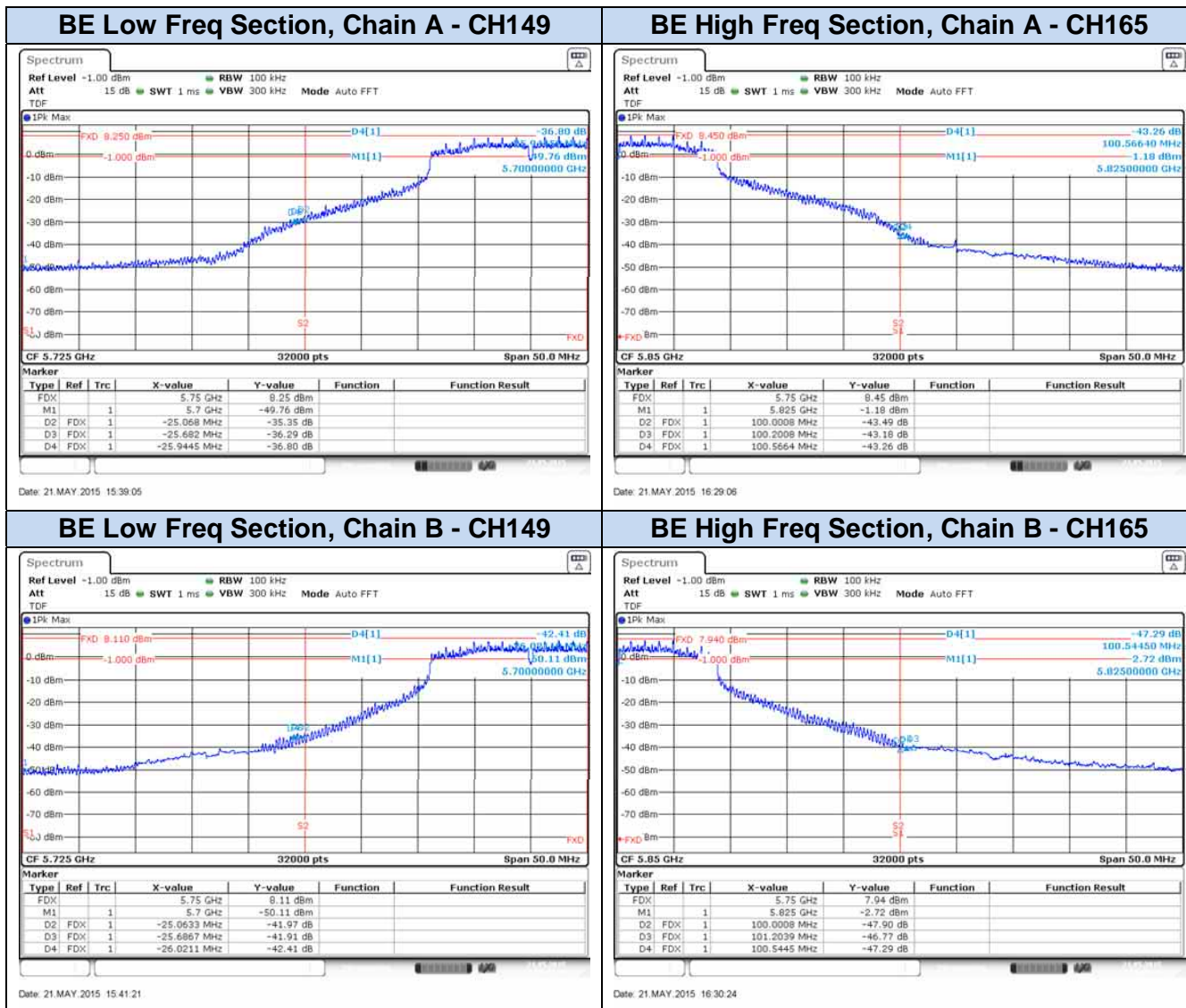
Date: 19 MAY 2015 18:58:38

BE High Freq Section, Chain B - CH165

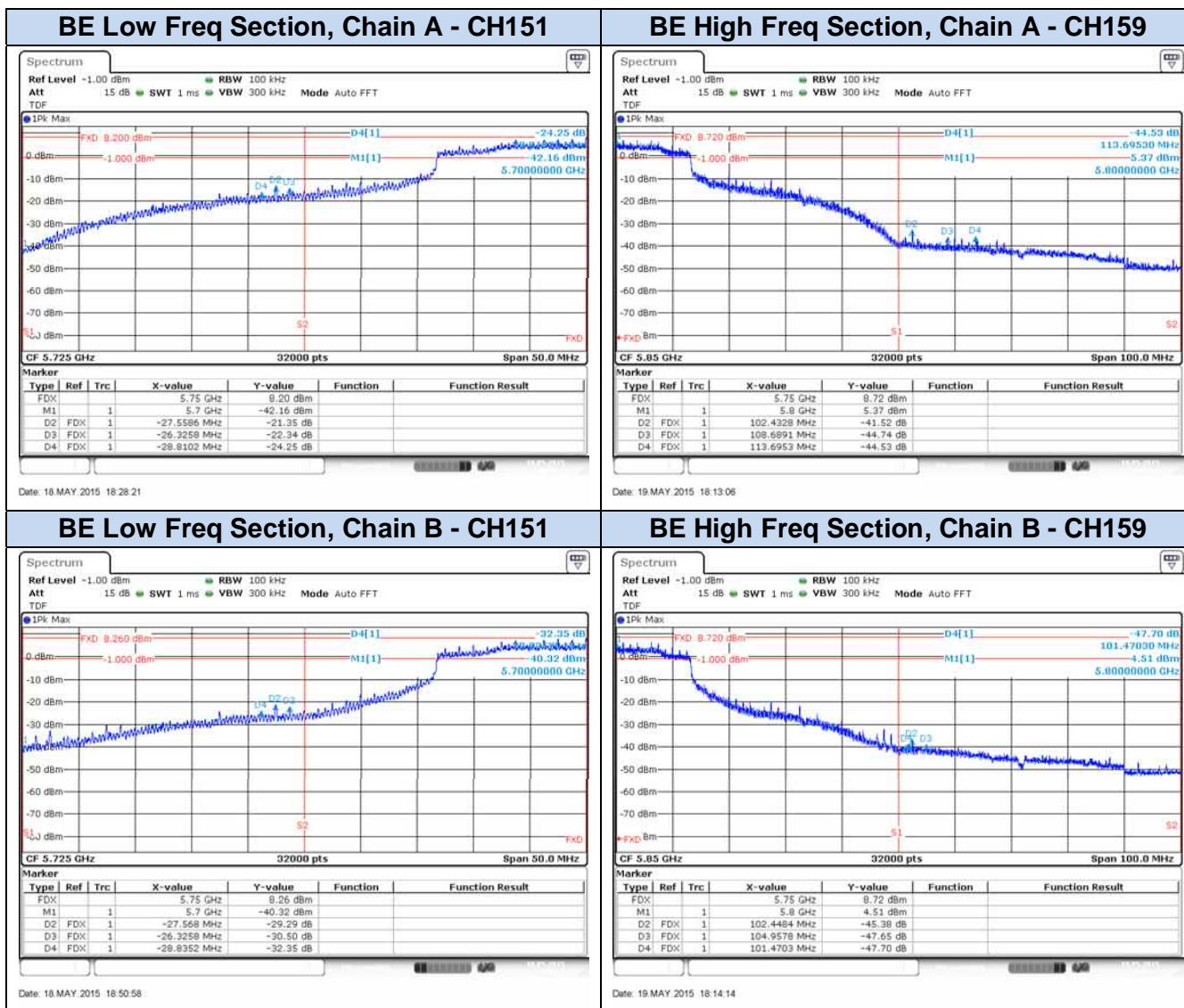


Date: 19 MAY 2015 19:14:53

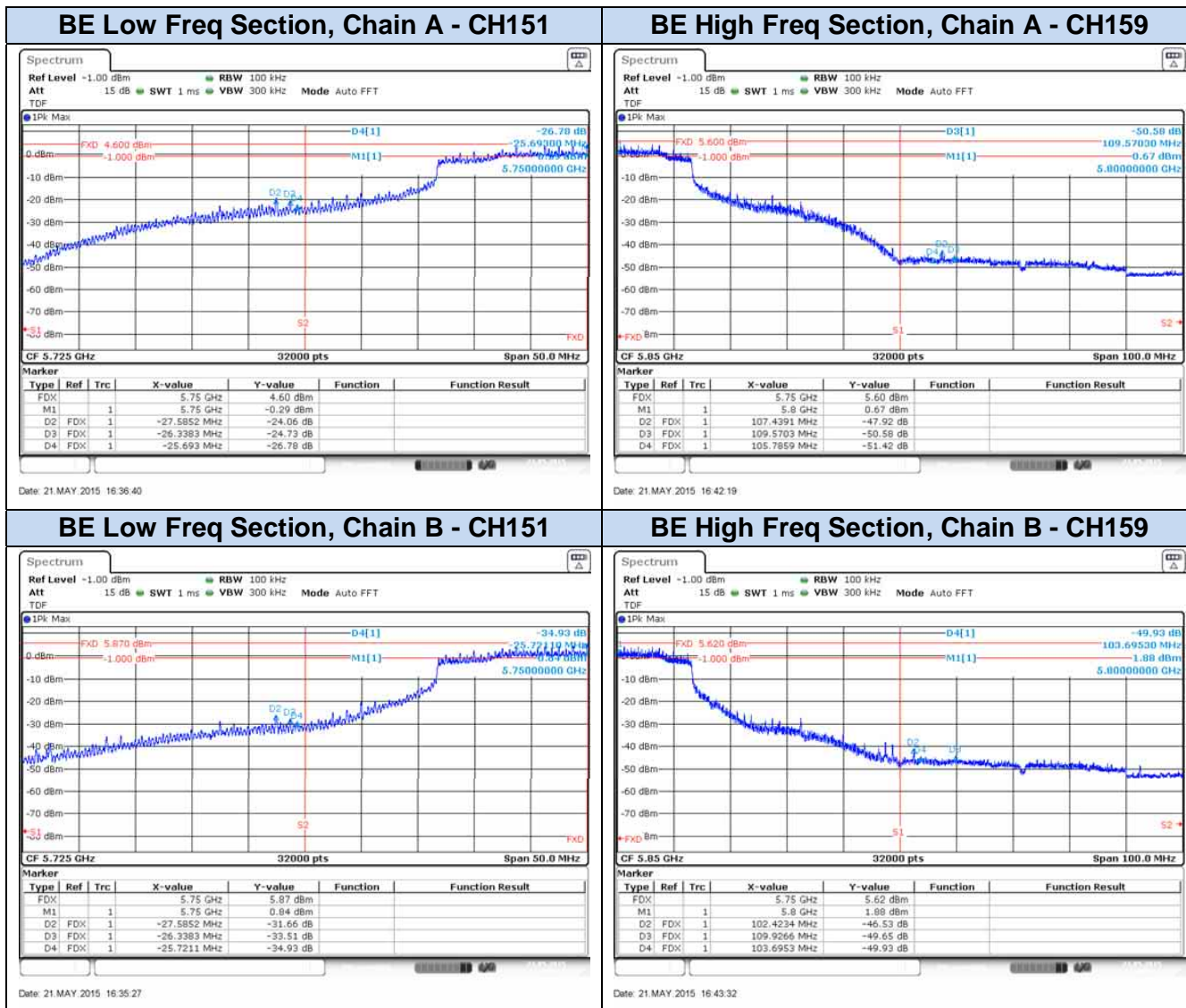
802.11n20, HT8 (MIMO)



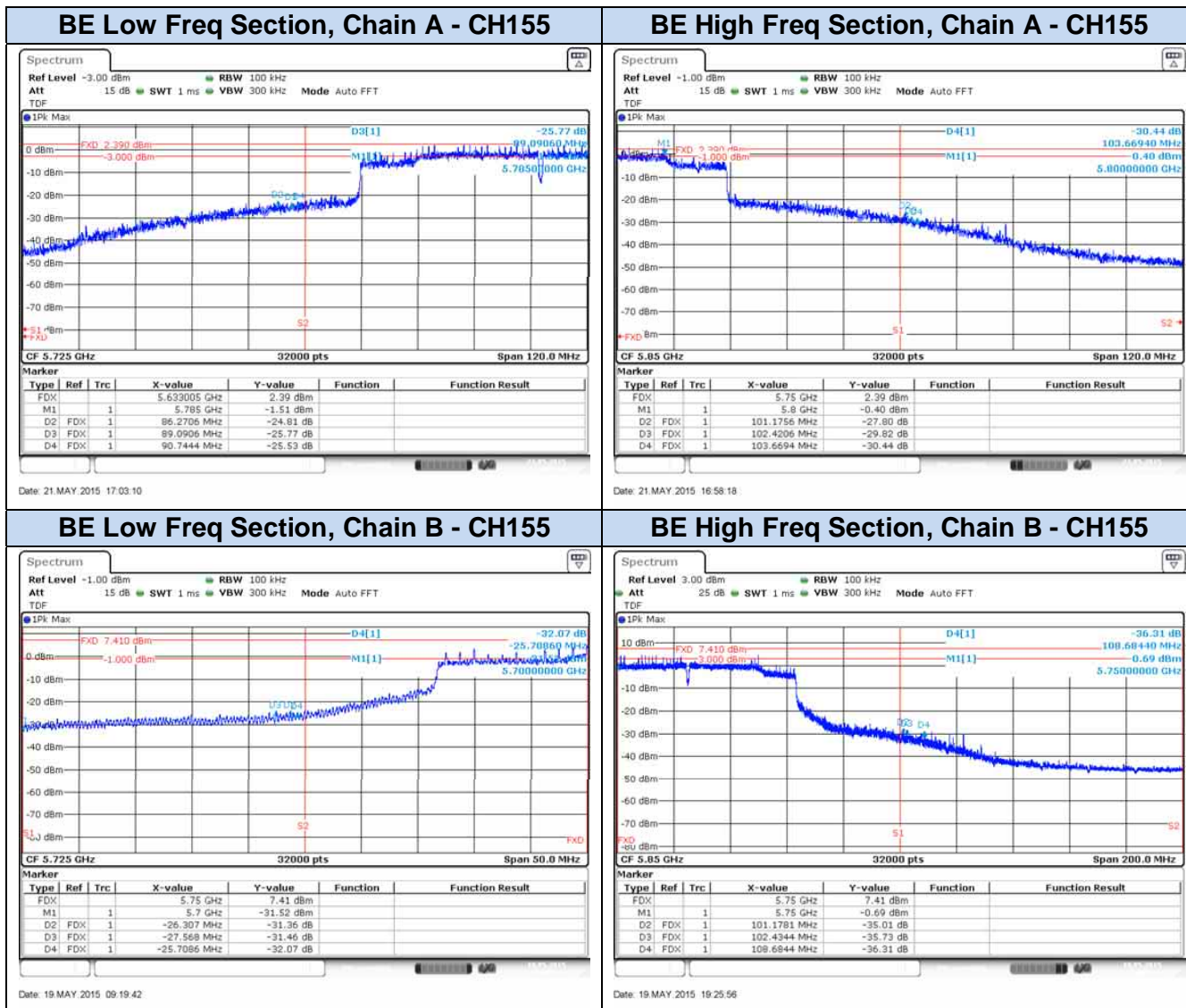
802.11n40, HT0 (SISO)



802.11n40, HT8 (MIMO)

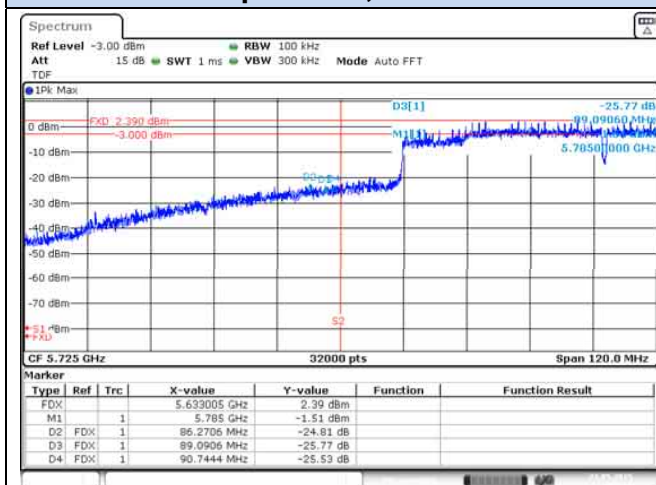


802.11ac80, VHT0 (SISO)



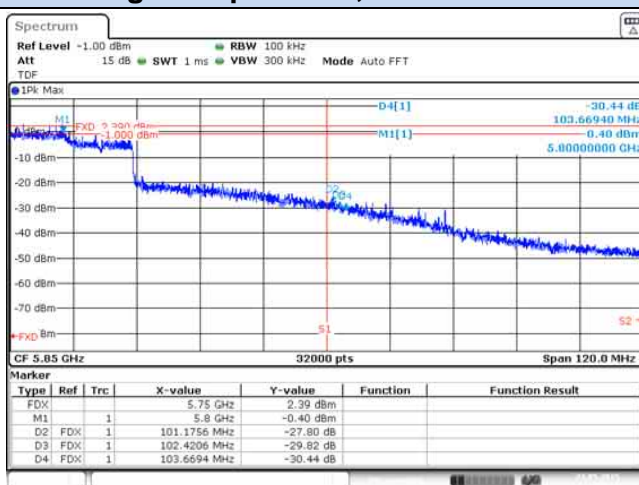
802.11ac80, VHT0 (MIMO)

BE Low Freq Section, Chain A - CH155



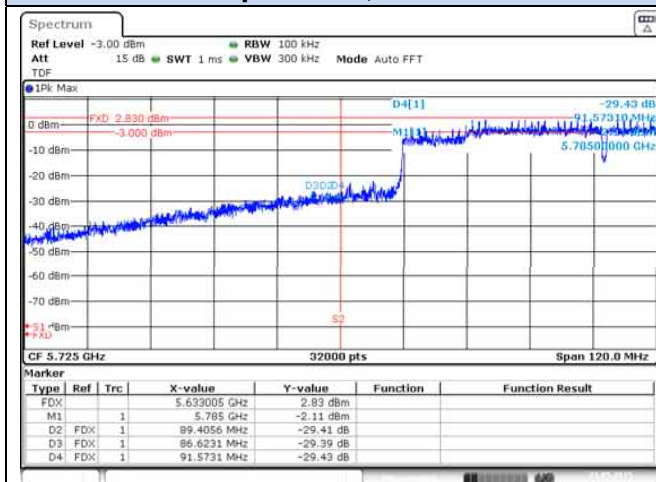
Date: 21.MAY.2015 17:03:10

BE High Freq Section, Chain A - CH155



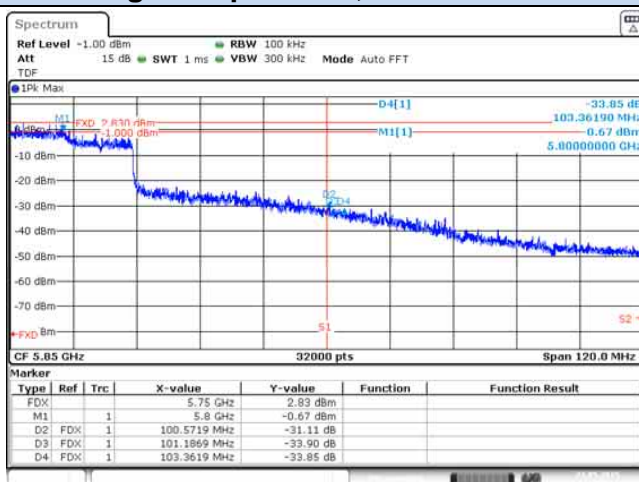
Date: 21.MAY.2015 16:58:18

BE Low Freq Section, Chain B - CH155



Date: 21.MAY.2015 17:06:03

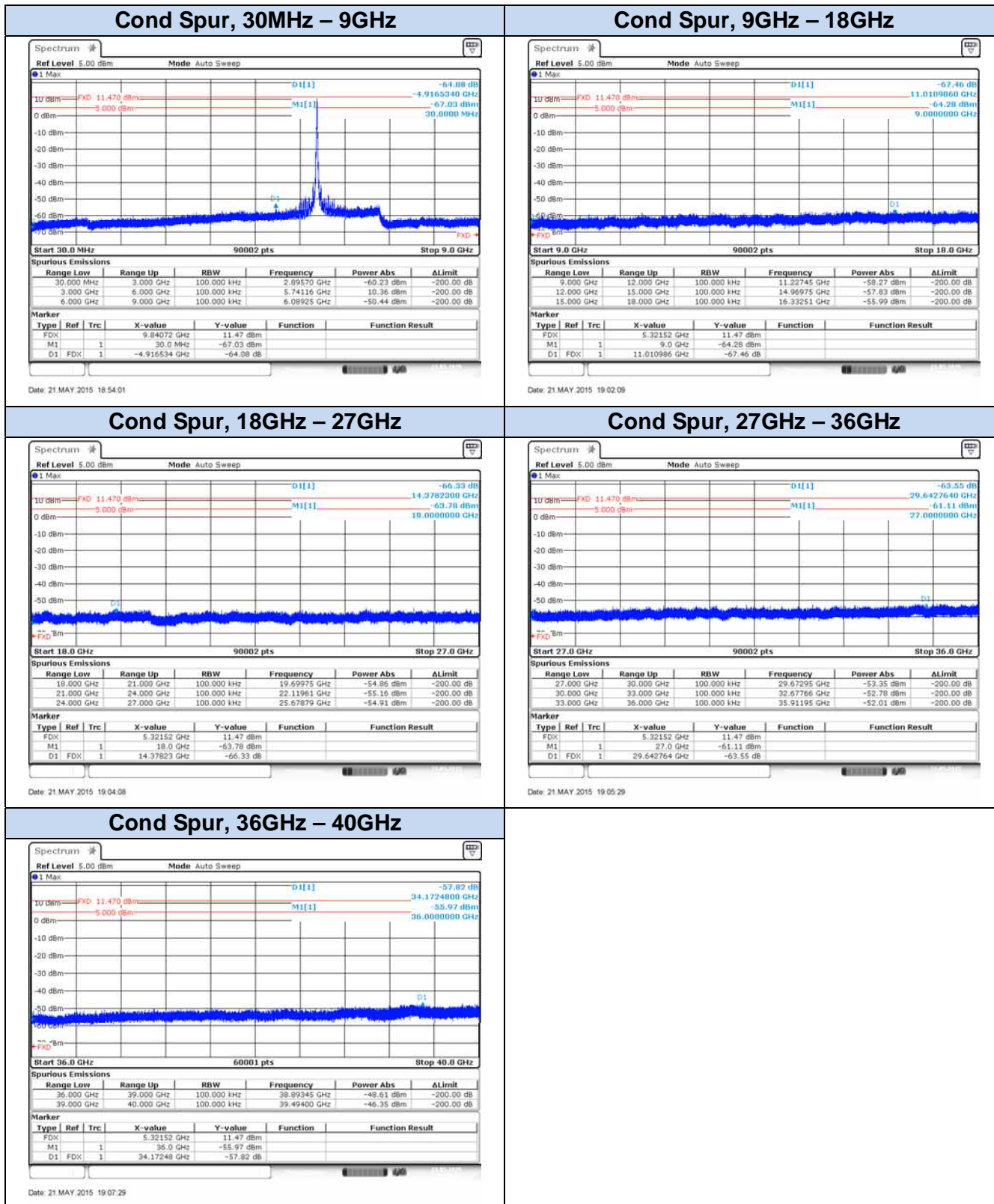
BE High Freq Section, Chain B - CH155



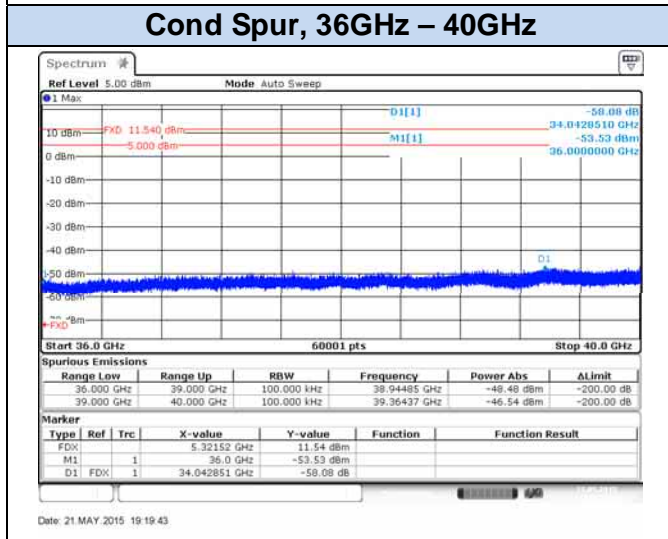
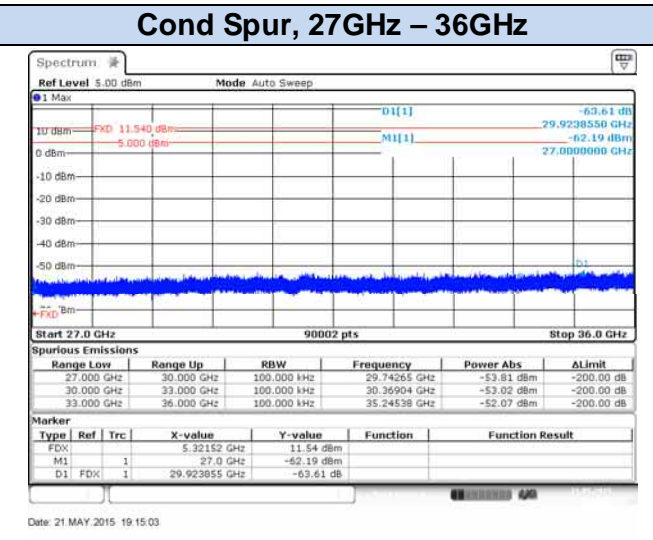
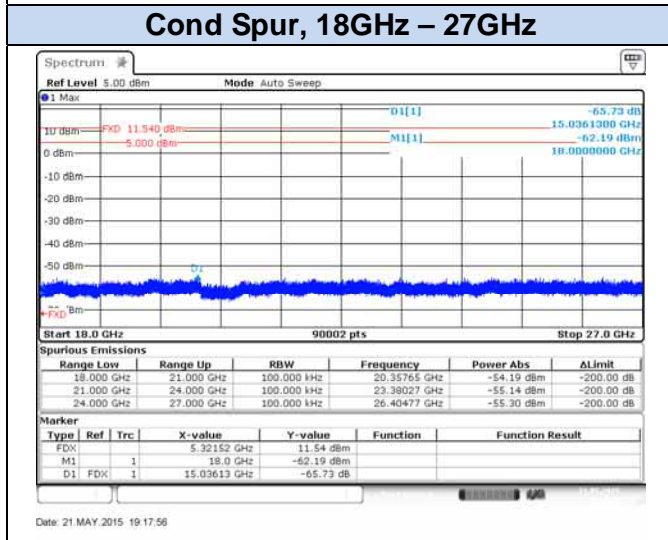
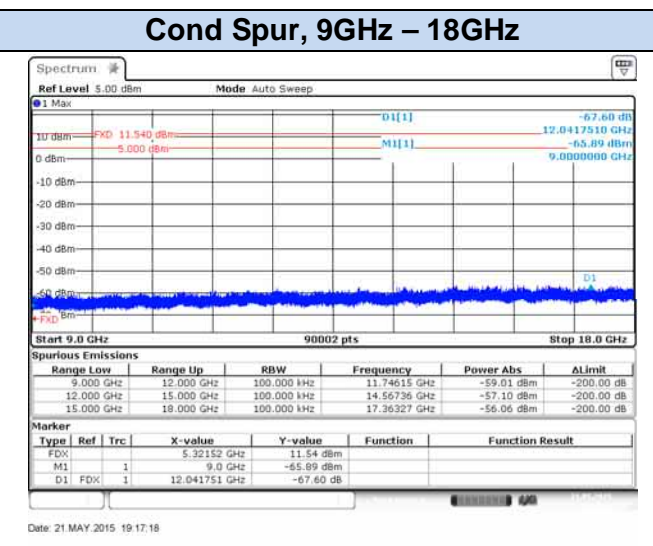
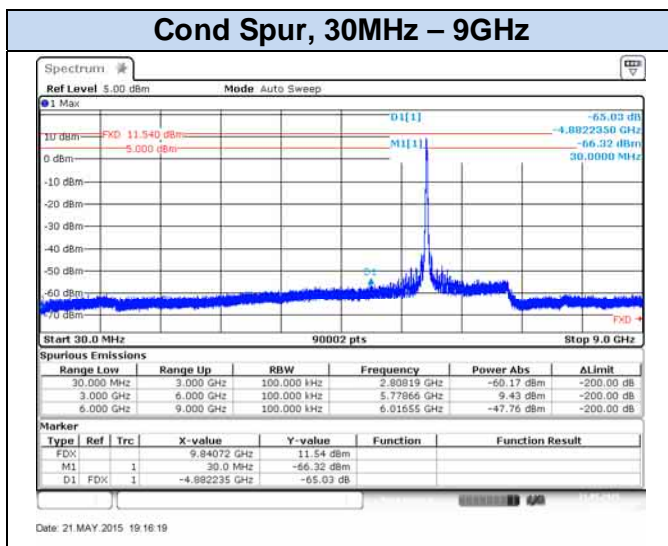
Date: 21.MAY.2015 16:56:52

Conducted Spurious results Screenshot

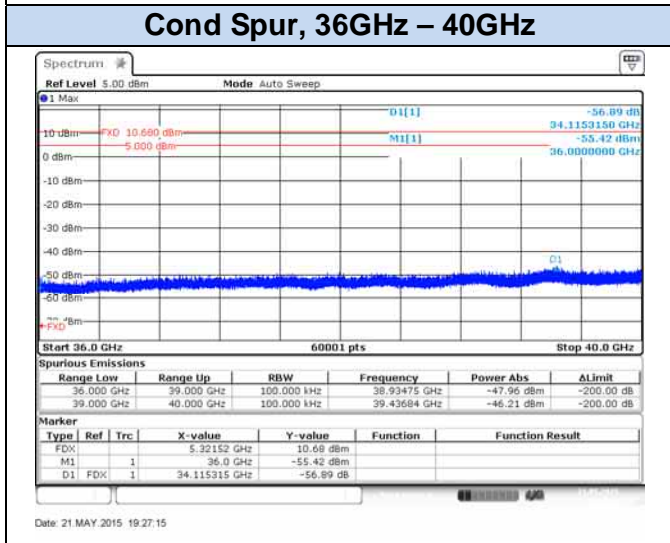
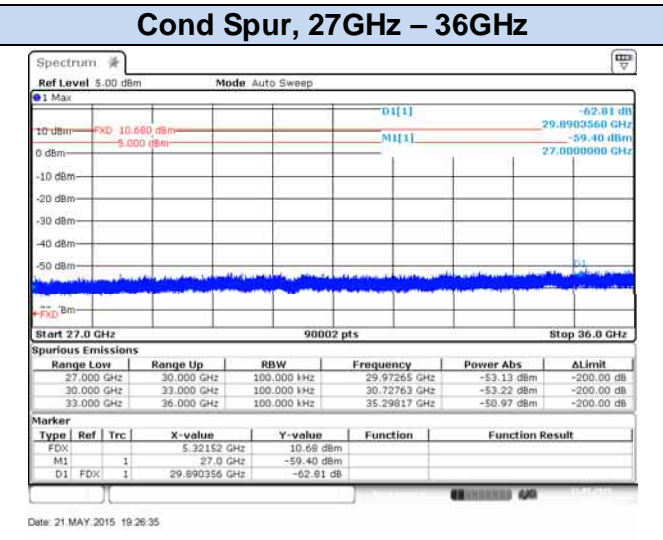
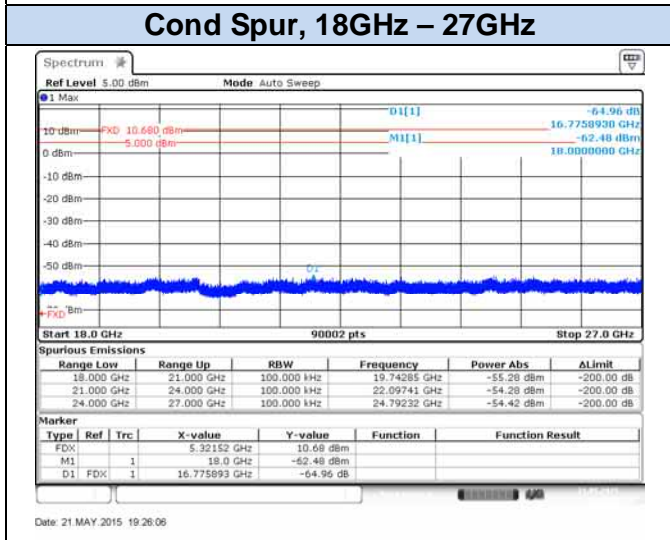
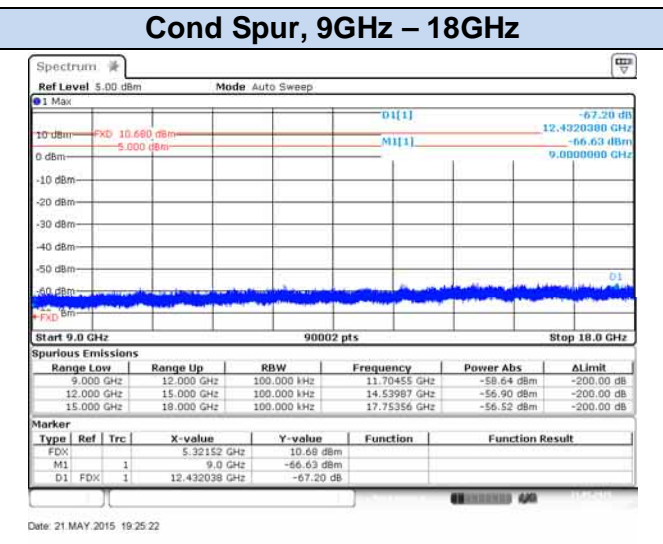
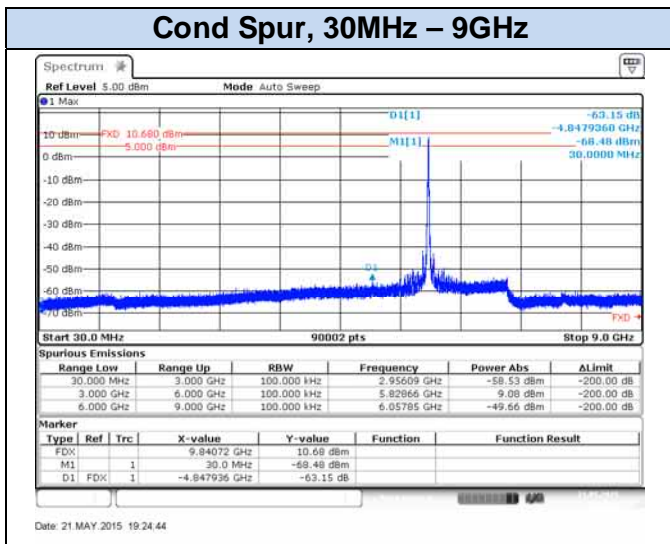
802.11a, 6Mbps – Chain A, CH149



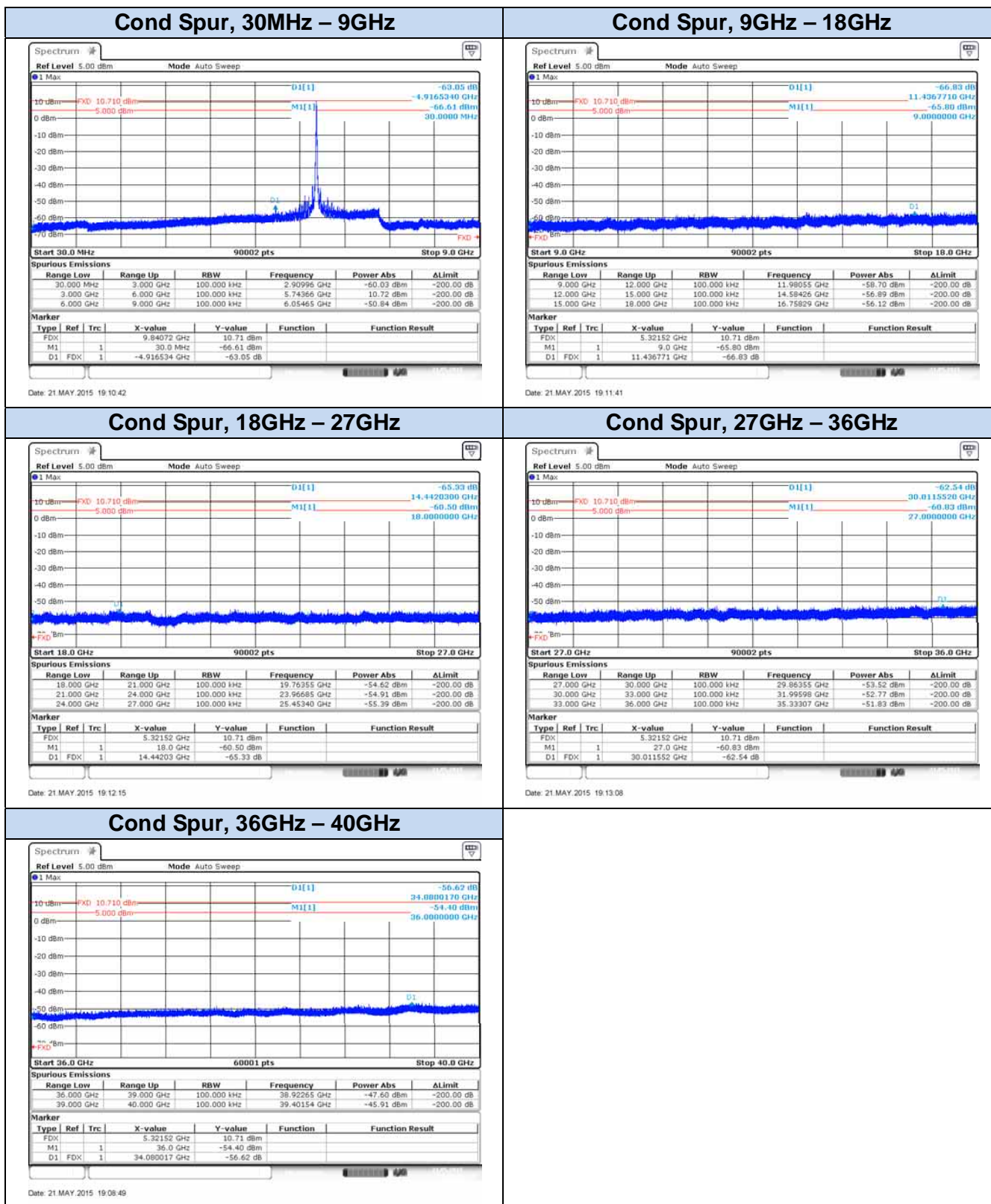
802.11a, 6Mbps – Chain A, CH157



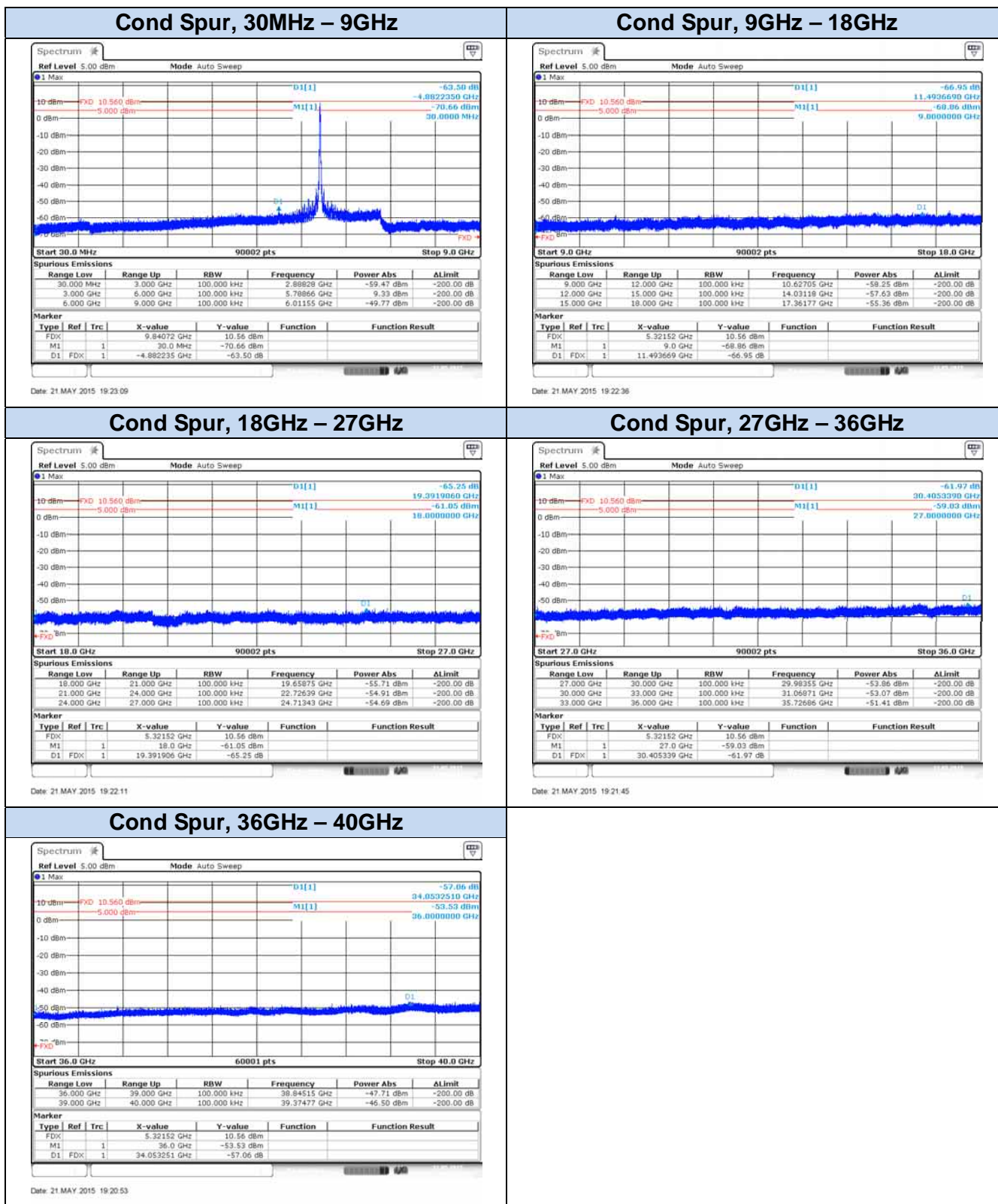
802.11a, 6Mbps – Chain A, CH165



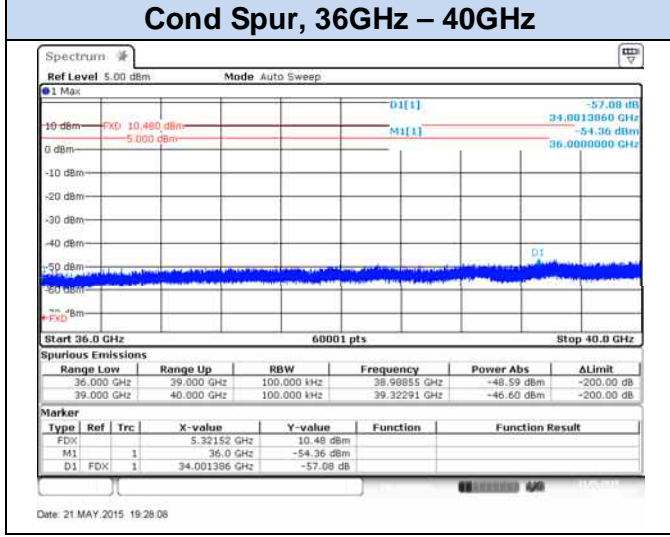
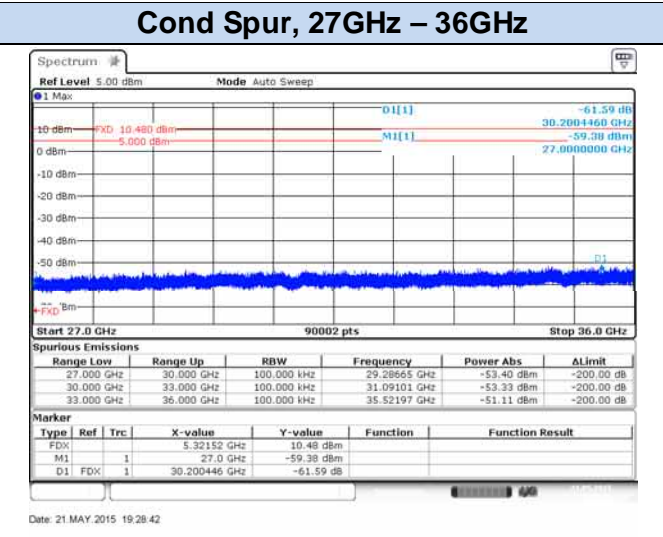
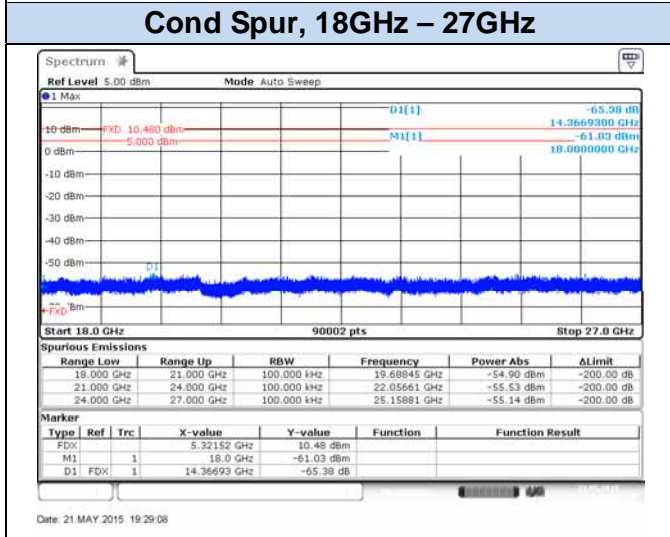
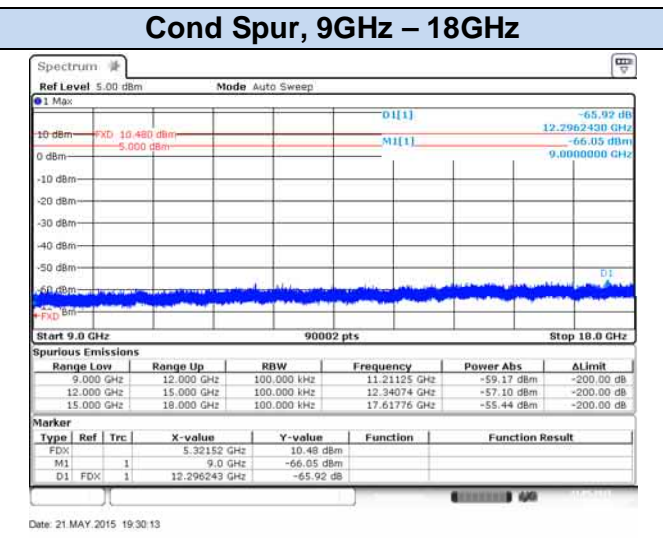
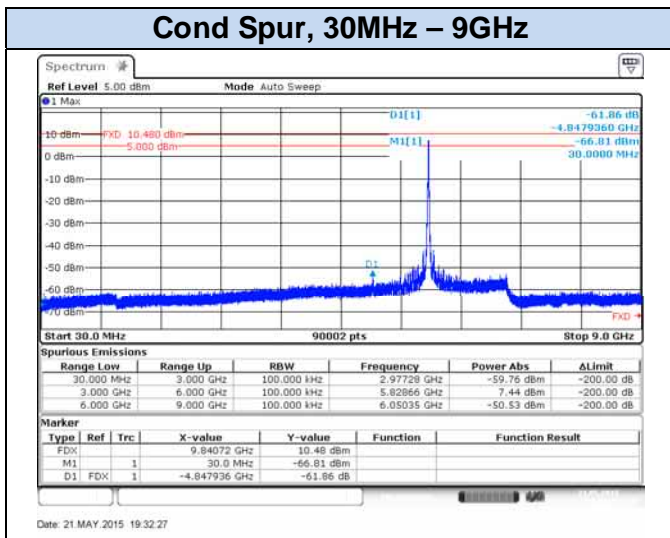
802.11a, 6Mbps – Chain B, CH149



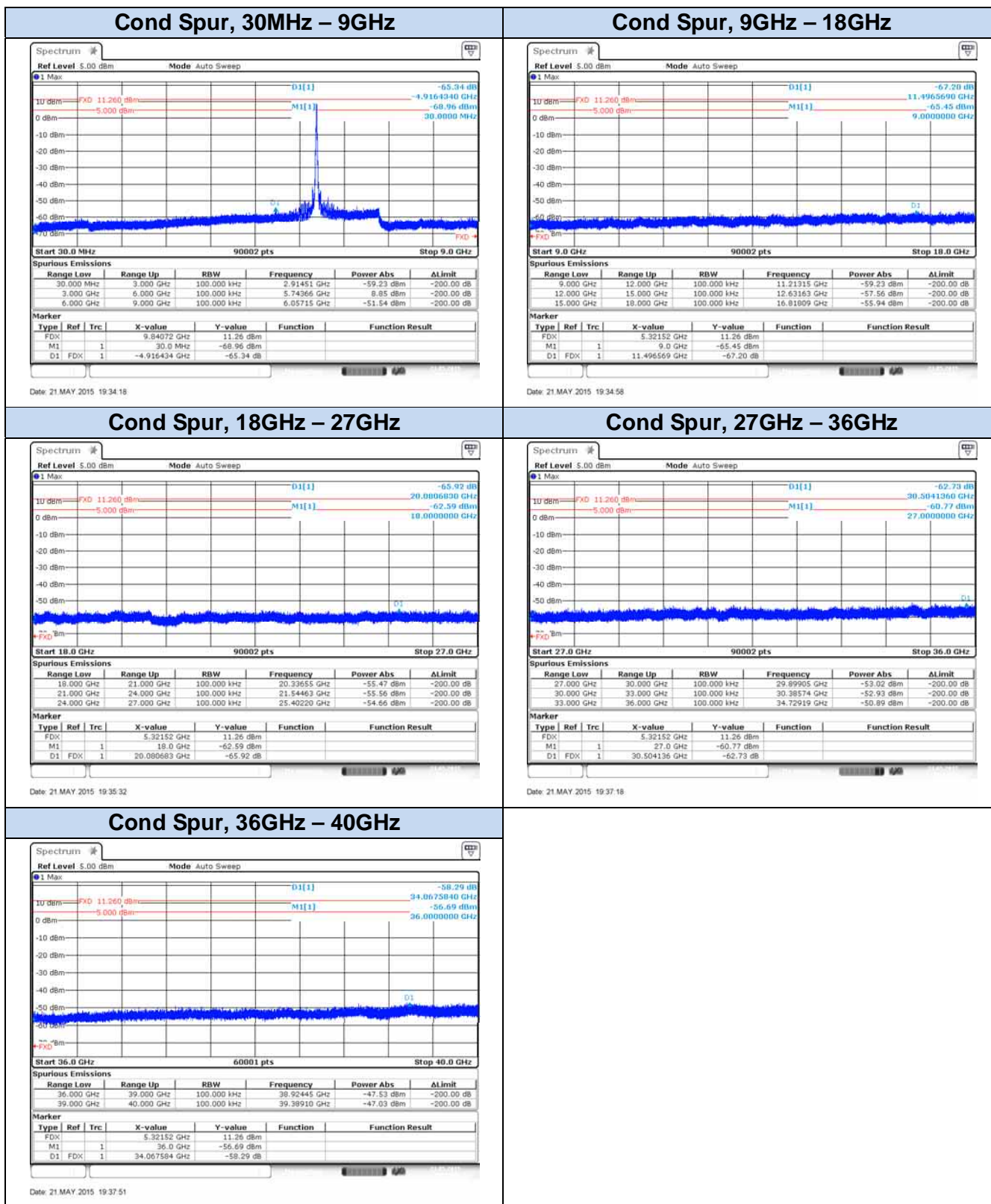
802.11a, 6Mbps – Chain B, CH157



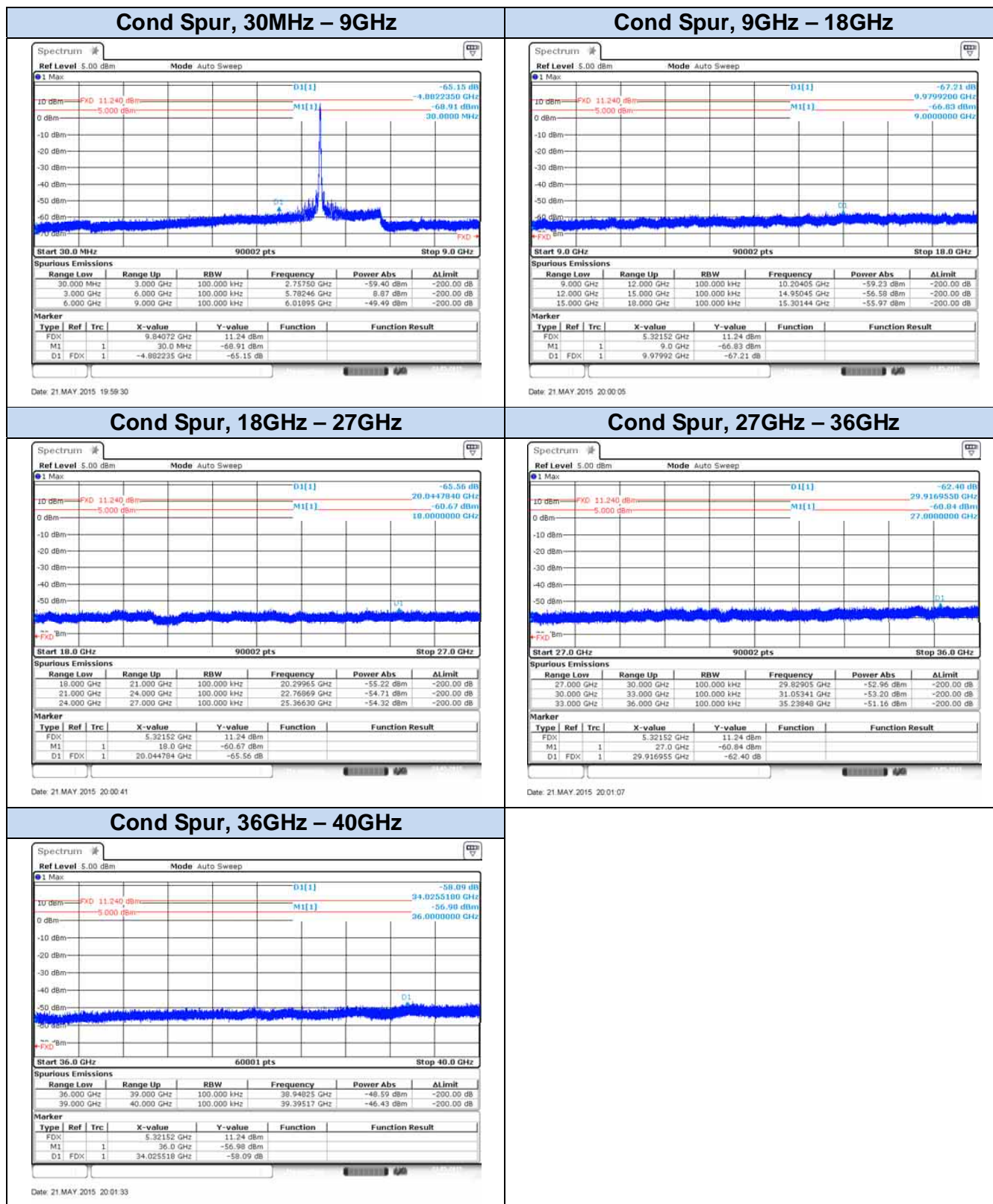
802.11a, 6Mbps – Chain B, CH165



802.11n20, HT0 (SISO) – Chain A, CH149



802.11n20, HT0 (SISO) – Chain A, CH157



802.11n20, HT0 (SISO) – Chain A, CH165

