



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 1**

DTS Wireless LAN

CERTIFICATION TEST REPORT

FOR

Wi-Fi/BT Transceiver

MODEL NUMBER : WCM730Q

FCC ID: A3LWCM730Q

IC ID : 649E-WCM730Q

REPORT NUMBER: 4787630783-E1V4

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Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: Wi-Fi/BT Transceiver
MODEL NUMBER: WCM730Q
EUT WLAN MAC ADDRESS: B8BBAFC457EA, B8BBAFC457E9
B8BBAFC45874, B8BBAFC458A6 (RADIATED)
B8BBAFC45850, B8BBAFC45844 (CONDUCTED)
DATE TESTED: OCT 09, 2016 - OCT 31, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:

Tested By:



CY Choi
Suwon Lab Engineer
UL Korea, Ltd.

Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 558074 D01 v03r05, KDB 662911 D01 v02r01, ANSI C63.10-2013 for FCC and KDB 662911 D01 v02r01, ANSI C63.10-2013, RSS-GEN Issue 4, RSS-247 Issue 1 for IC.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
<input checked="" type="checkbox"/>	Chamber 1
<input checked="" type="checkbox"/>	Chamber 2

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Wi-Fi/BT Transceiver.
This test report addresses the DTS (WLAN) operational mode.

WiFi MIMO Condition

Frequency	Mode	Antenna 1	Antenna 2
2.4 GHz	802.11b	TX / RX	TX / RX
	802.11g	TX / RX	TX / RX
	802.11g MIMO	TX / RX	TX / RX
	802.11n	TX / RX	TX / RX
	802.11n MIMO	TX / RX	TX / RX
5 GHz	802.11a	TX / RX	TX / RX
	802.11a MIMO	TX / RX	TX / RX
	802.11n	TX / RX	TX / RX
	802.11n MIMO	TX / RX	TX / RX
	802.11ac	TX / RX	TX / RX
	802.11ac MIMO	TX / RX	TX / RX

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

Frequency Range [MHz]	Mode	Output Power [dBm]		Output Power [mW]	
		Antenna1	Antenna2	Antenna1	Antenna2
2412 - 2472	802.11b	13.20	13.46	20.89	22.18
	802.11g SISO	17.41	17.12	55.08	51.52
	802.11g MIMO	20.28		106.66	
	802.11n20 SISO	17.00	16.89	50.12	48.87
	802.11n20 MIMO	19.93		98.40	
2422 - 2462	802.11n40 SISO	13.05	13.04	20.18	20.14
	802.11n40 MIMO	15.99		39.72	

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes Metal Inverted F antenna, with a antenna1's maximum gain of 1.8 dBi and antenna2's maximum gain of 2.8 dBi .

5.4. LIST OF TEST REDUCTION AND MODES

The output power on covered modes is equal to or less than one referenced.

Frequency Range (MHz)	Mode	Covered by
2412 - 2472	802.11b Legacy 1TX	802.11b Legacy 1TX
	802.11g CDD 2TX	802.11g CDD 2TX
	802.11n HT20 1TX	802.11n HT20 CDD 2TX
	802.11n HT20 STBC/SDM/CDD 2TX	802.11n HT20 CDD 2TX
2422 - 2462	802.11n HT40 1TX	802.11n HT40 CDD 2TX
	802.11n HT40 STBC/SDM/CDD 2TX	802.11n HT40 CDD 2TX

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1GHz was performed with the EUT set to transmit low/mid/high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps (Legacy 1TX)
802.11g mode: 6 Mbps (CDD 2TX)
802.11n HT20 mode: MCS0 (CDD 2TX)
802.11n HT40 mode :MCS0 (CDD 2TX)

5.6. DESCRIPTION OF TEST SETUP

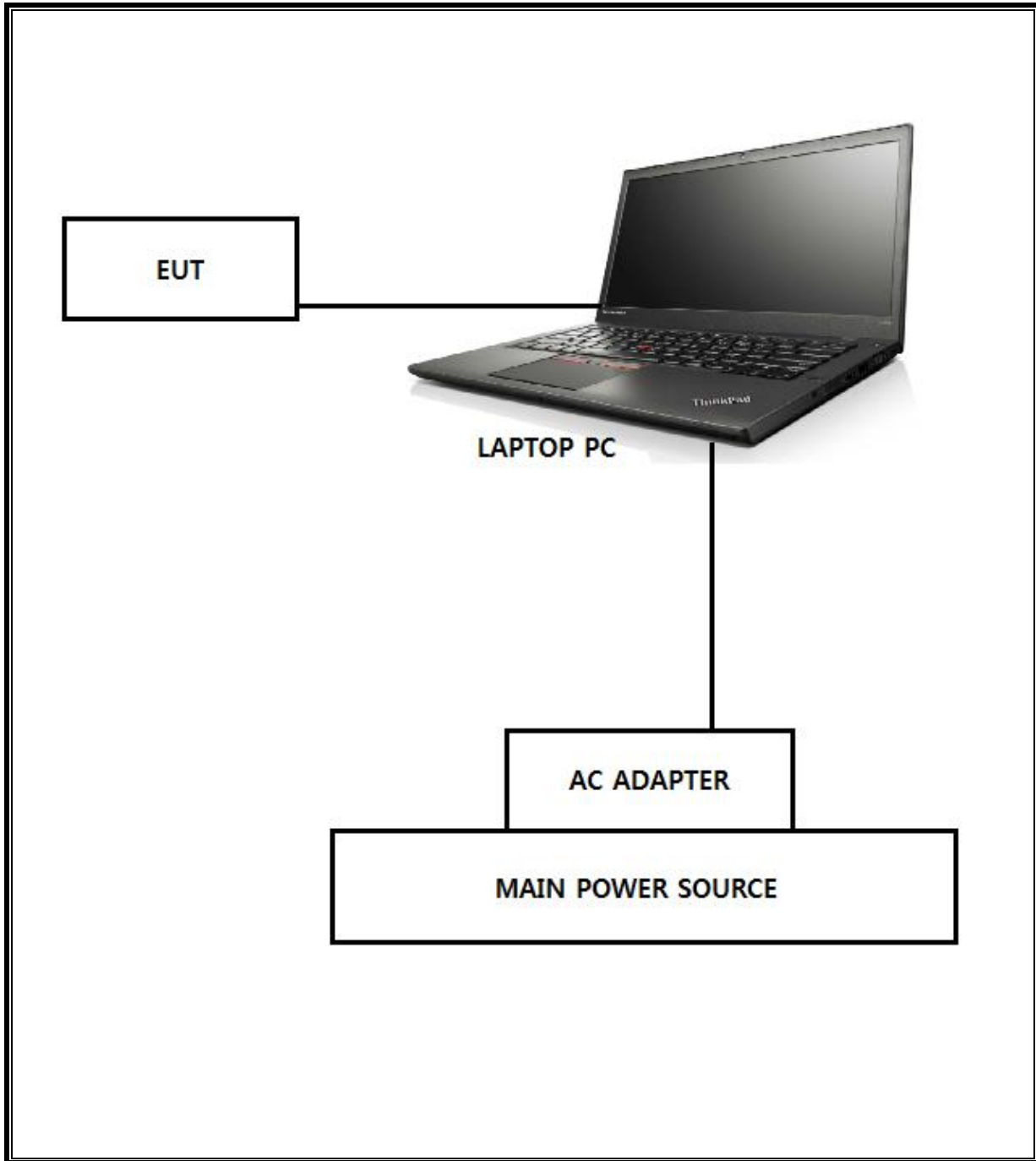
SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
USB Cable	SAMSUNG	USB Cable	N/A	N/A
LAPTOP PC	LENOVO	T450	PC-07B394	N/A
ADAPTER	LENOVO	ADLX65NDC3A	N/A	N/A

TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software exercised the EUT to enable DTS mode.

SETUP DIAGRAM FOR TESTS



5.7. MANUFACTURER and FACTORY INFORMATION

5.7.1. Manufacturer

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

5.7.2. Factory

1. WISOL CO., LTD.
531-7 Gajang-ro, Osan-si, Gyeonggi-do, Korea
2. WISOL HANOI Co., Ltd.
26, ROAD 05, VSIP, PHU CHAN COMMUNE, TU SON DISTRICT,
BAC NINH PROVINCE, VIETNAM
3. ShenZhen Zowee Technology Co., Ltd
Block 5, Science&Technology Industrial Park of Privately Owned
Enterprises, Pingshan, Xili Nanshan District Shenzhen Guangdong
518055, China
4. ShenZhen Zowee Technology Co., Ltd
BaoAn Subcompany Zowee Factory Tongfuyu Industrial Zone
Songgang, Baoan District Shenzhen Guangdong 518105, China
ShenZhen Zowda Precision Mold Co., Ltd
5. Block 2&Block 3(Floor 1&2) Zowee Factory Tongfuyu Industrial Zone
Songgang, Baoan District Shenzhen Guangdong 518055, China
6. TianJin Zowda Science and Technology Develop Co., Ltd
Between Xinye 1 Street and Xinhuan South Street West Zone,
Economic Development Area Tianjin 300457, China
7. Chengdu Xuguang Technology Co., Ltd.
No.86 2nd Section, Park Road, Longquanyi District, Chengdu City, Sichuan Province,
P.R.China

6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	11-17-16
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	04-25-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	05-17-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	06-17-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	06-17-17
Antenna, Horn, 40 GHz	ETS	3116C	00166155	11-30-17
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	12-15-17
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-17-17
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-16-17
Preamplifier	ETS	3115-PA	00167475	08-17-17
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-16-17
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	08-17-17
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	08-16-17
Bluetooth Tester	TESCOM	TC-3000C	3000C000546	08-18-17
Average Power Sensor	R&S	NRZ-Z91	102681	08-16-17
Average Power Sensor	Agilent / HP	U2000	MY54270007	08-17-17
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-17-17
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-16-17
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-16-17
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	08-17-17
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	08-16-17
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	08-17-17
High Pass Filter 3GHz	Micro-Tronics	HPM17543	015	08-16-17
High Pass Filter 6GHz	Micro-Tronics	HPM17542	009	08-17-17
High Pass Filter 6GHz	Micro-Tronics	HPM17542	016	08-16-17
LISN	R&S	ENV-216	101836	08-16-17
LISN	R&S	ENV-216	101837	08-16-17
Attenuator	PASTERNAK	PE7087-10	A009	08-16-17

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r05: Measurement Procedure §9.2.3.1 AVGPM is used for average power and §10.3 AVGPSD-1, §10.5 AVGPSD-2 are used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

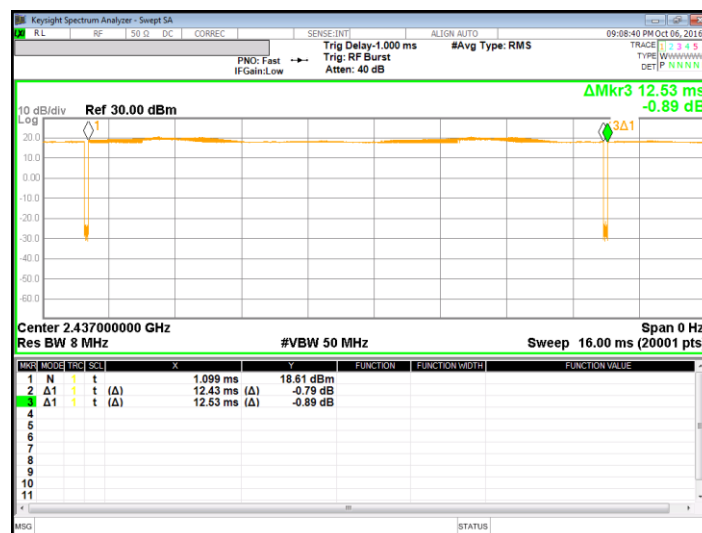
8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

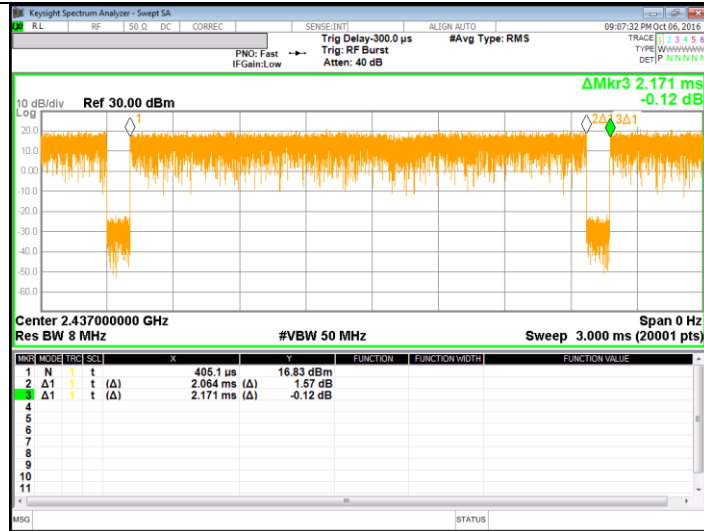
None; for reporting purposes only.

8.1. ON TIME AND DUTY CYCLE RESULTS

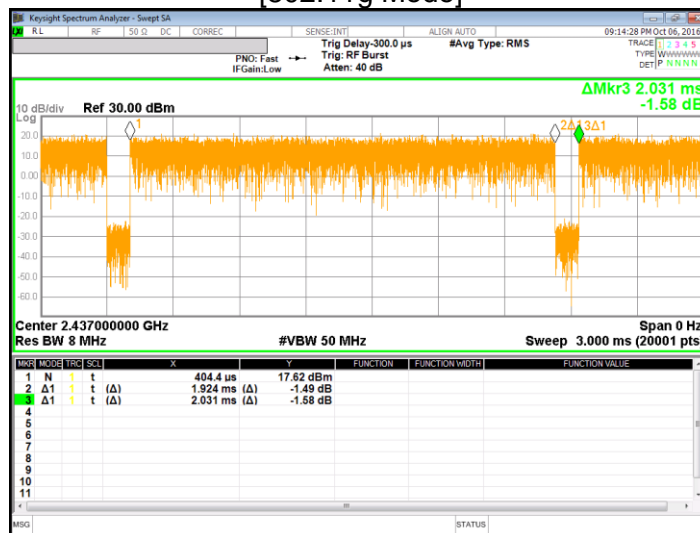
Mode	ON Time B [msec]	Period [msec]	Duty Cycle x [linear]	Duty Cycle [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2400MHz Bands						
802.11b	12.43	12.53	0.992	99.2%	0.00	0.010
802.11g	2.064	2.171	0.951	95.1%	0.22	0.484
802.11n HT20	1.924	2.031	0.947	94.7%	0.24	0.520
802.11n HT40	0.948	1.054	0.899	89.9%	0.46	1.055



[802.11b Mode]



[802.11g Mode]



[802.11n20 Mode]



[802.11n40 Mode]

9. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.061 MHz
2.1051, 15.247 (d)	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-44.428 dBm
15.247	TX conducted output power	<30dBm		Pass	20.28 dBm (AV)
15.247	PSD	<8dBm		Pass	-4.89 dBm (AV)
15.207 (a)	AC Power Line conducted emissions	Section 10	Power Line conducted	Pass	56.64 dBuV (QP)
15.205, 15.209	Radiated Spurious Emission	< 54dBuV/m	Radiated	Pass	51.72 dBuV/m (AV)

10. ANTENNA PORT TEST RESULTS

10.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)
IC RSS-247 §5.2 (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v03r05: The transmitter output is connected to a spectrum analyzer with the RBW set to 100kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

10.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]		Minimum Limit [MHz]
		Primary Antenna 1	Secondary Antenna 2	
1	2412	8.062	8.063	0.5
6	2437	8.062	8.061	0.5
11	2462	8.061	8.063	0.5
12	2467	8.063	8.063	0.5
13	2472	8.063	8.065	0.5
Worst		8.061		

10.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]		Minimum Limit [MHz]
		Primary Antenna 1	Secondary Antenna 2	
1	2412	16.287	16.264	0.5
2	2417	16.013	15.788	0.5
6	2437	16.248	16.030	0.5
10	2457	16.021	16.264	0.5
11	2462	16.281	16.052	0.5
12	2467	16.274	16.265	0.5
13	2472	16.055	16.290	0.5
Worst		15.788		

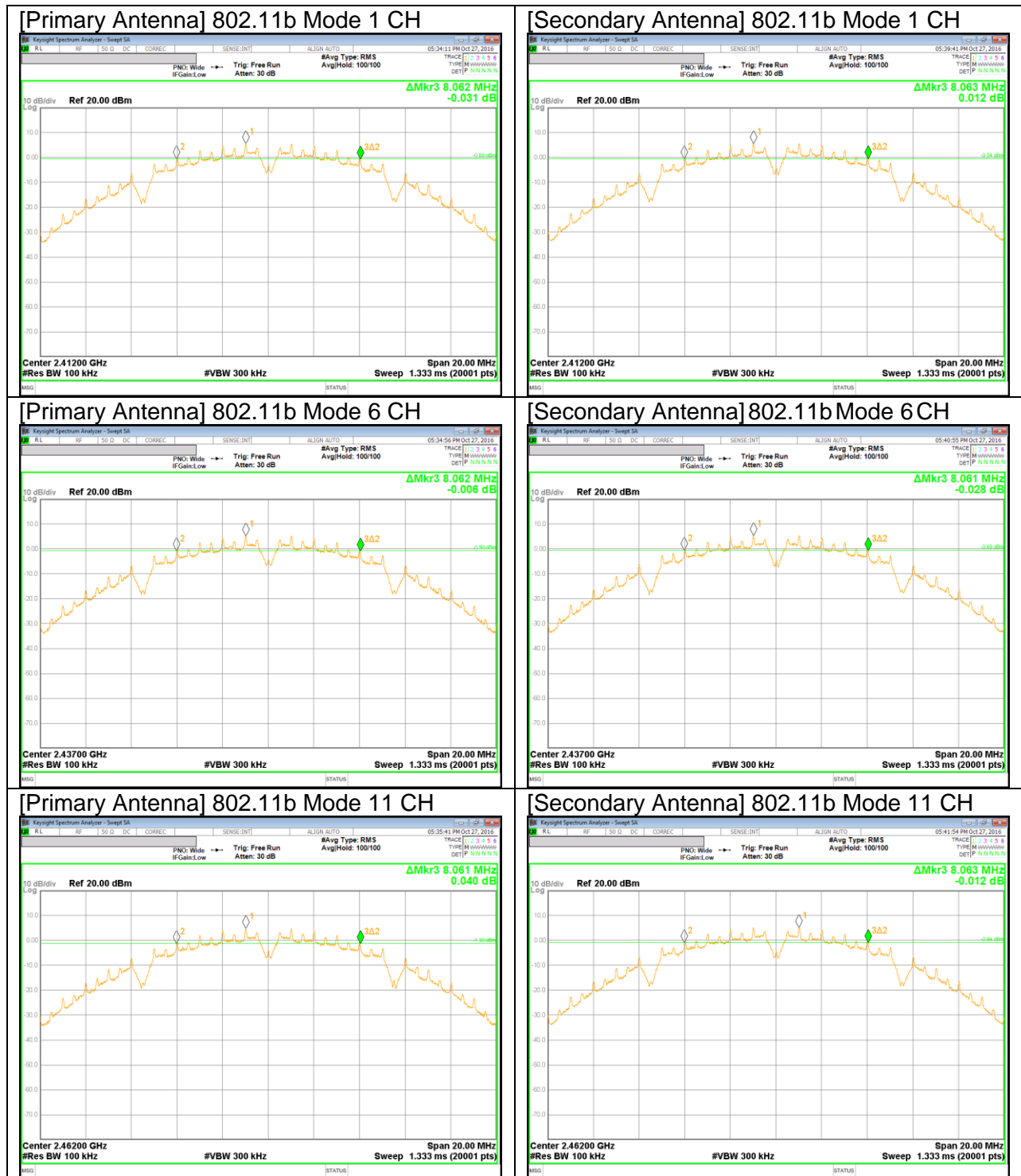
10.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

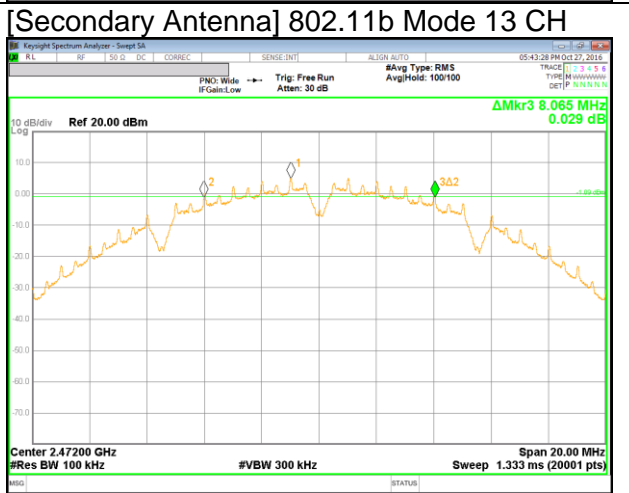
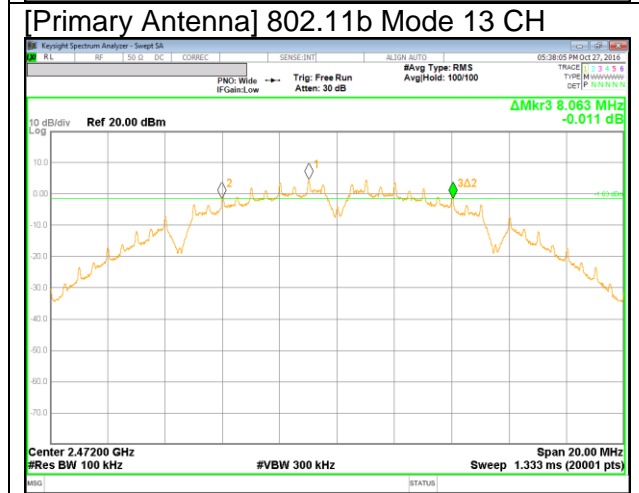
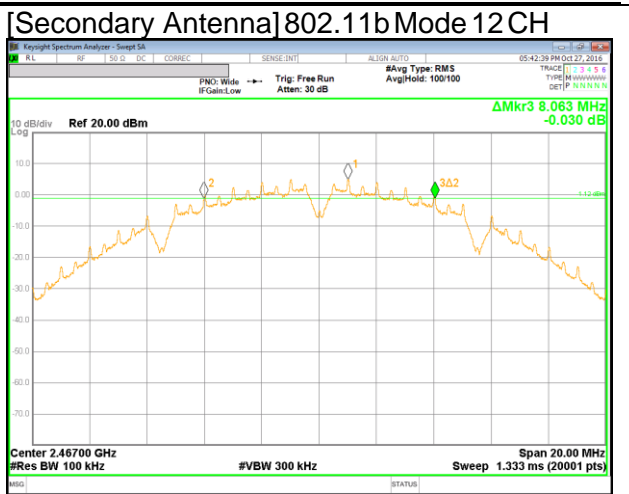
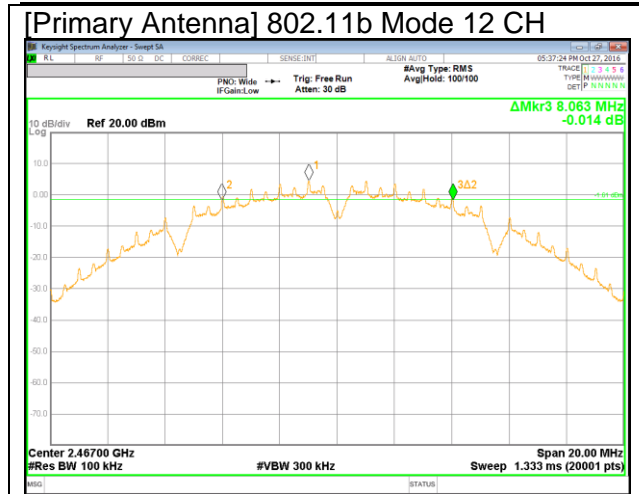
Channel	Frequency [MHz]	6 dB Bandwidth [MHz]		Minimum Limit [MHz]
		Chain 0	Chain 1	
1	2412	16.903	16.806	0.5
2	2417	16.807	16.802	0.5
6	2437	16.800	16.800	0.5
10	2457	16.800	16.803	0.5
11	2462	16.905	16.810	0.5
12	2467	16.794	16.807	0.5
13	2472	16.800	16.809	0.5
Worst		16.794		

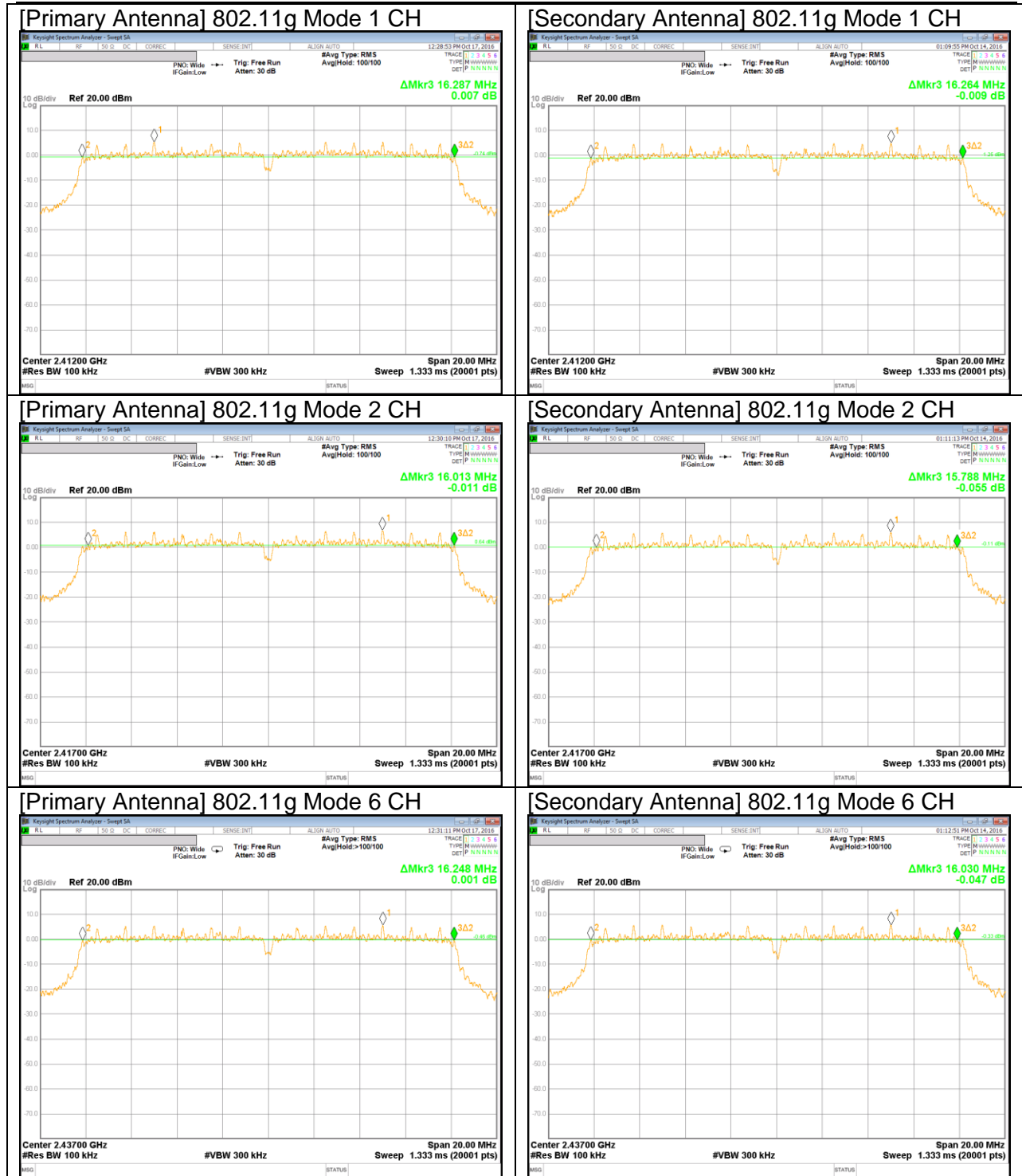
10.1.4. 802.11n HT40 MODE IN THE 2.4 GHz BAND

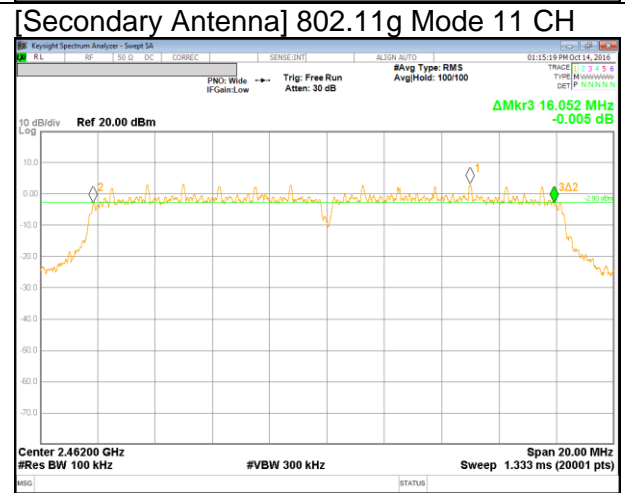
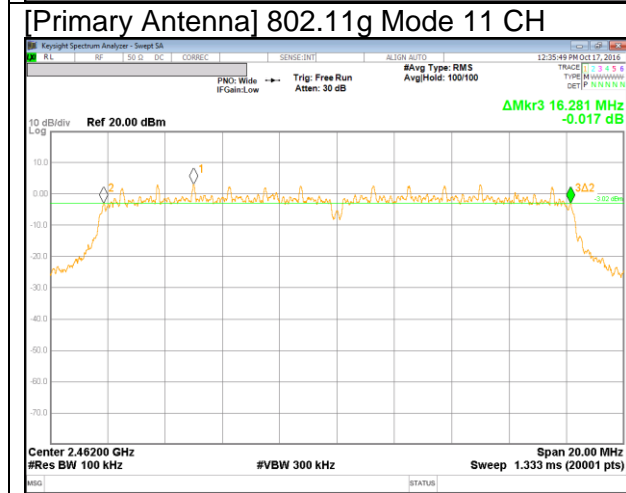
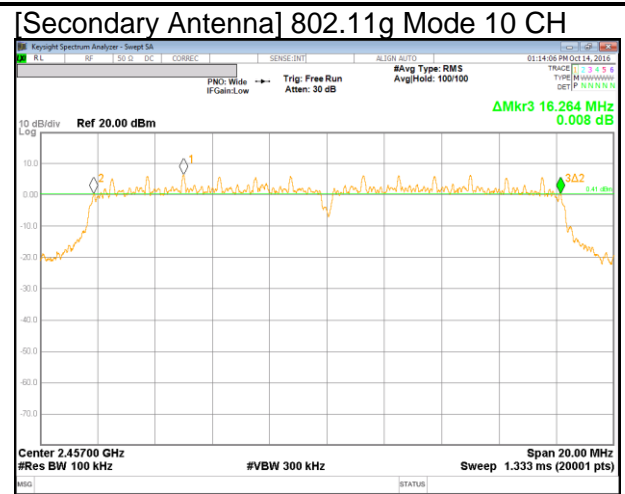
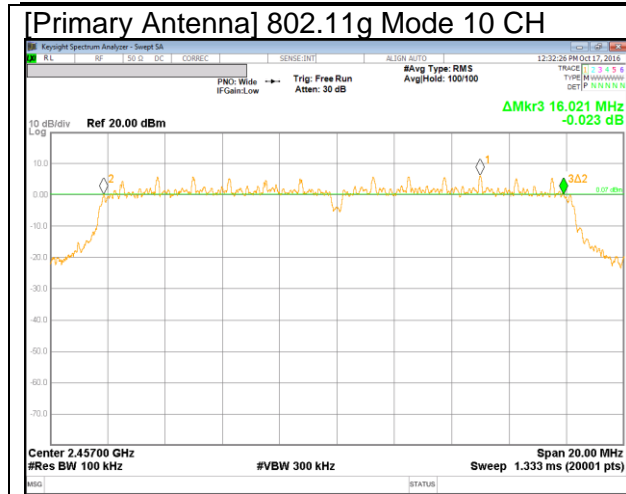
Channel	Frequency [MHz]	6 dB Bandwidth [MHz]		Minimum Limit [MHz]
		Chain 0	Chain 1	
3	2422	35.676	35.538	0.5
4	2427	35.648	35.342	0.5
5	2432	35.342	35.142	0.5
6	2437	35.546	35.332	0.5
7	2442	35.648	35.338	0.5
8	2447	35.346	35.536	0.5
9	2452	35.538	35.354	0.5
10	2457	35.356	35.356	0.5
11	2462	35.500	35.526	0.5
Worst		35.142		

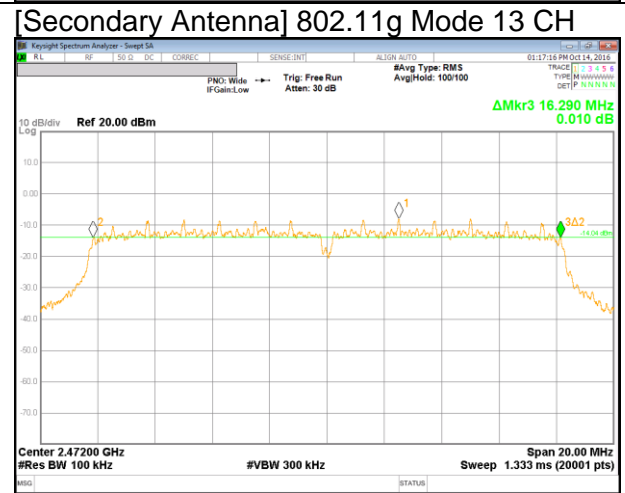
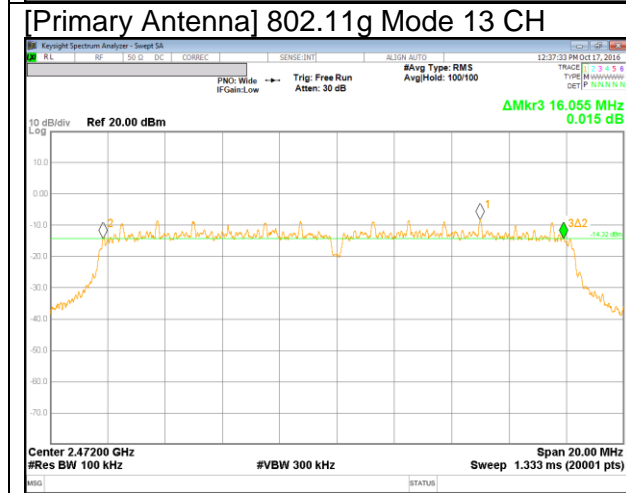
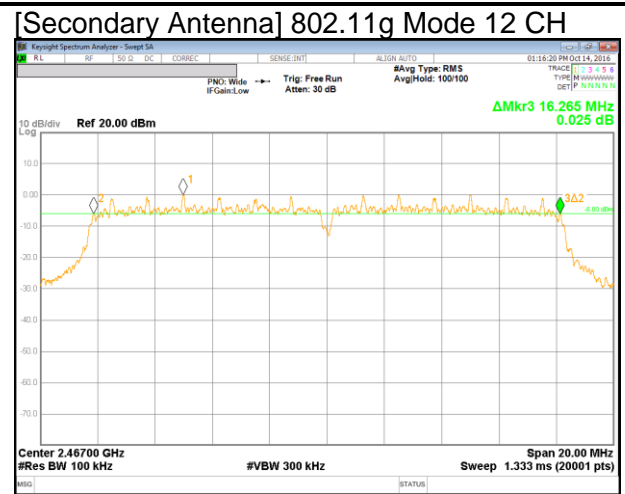
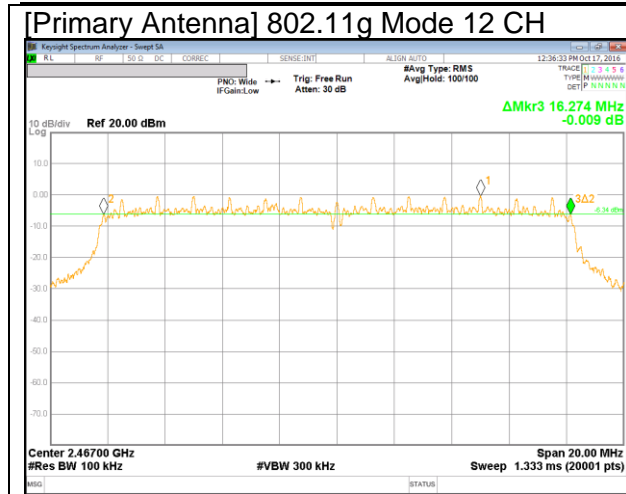
10.1.5. 6 dB BANDWIDTH PLOTS



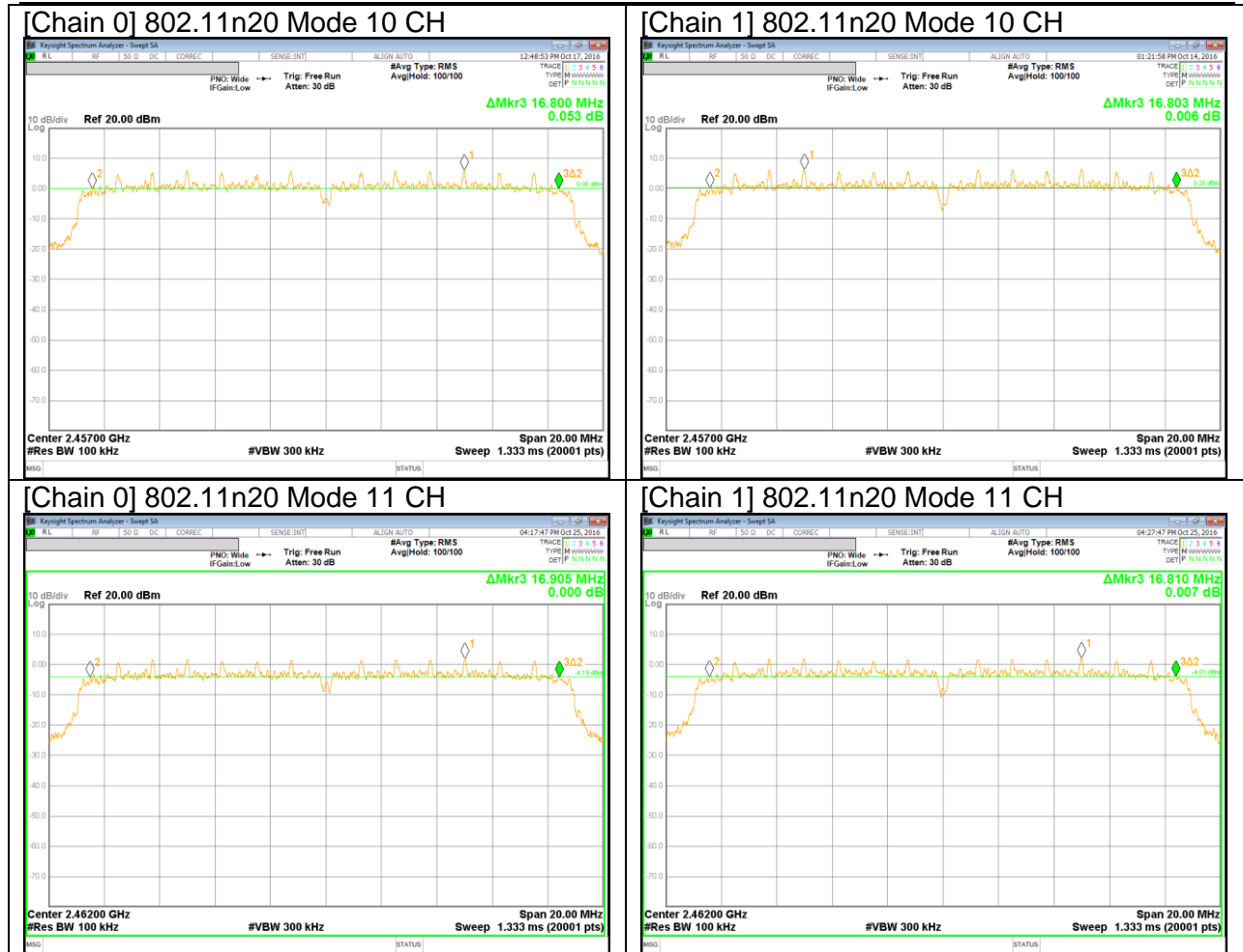


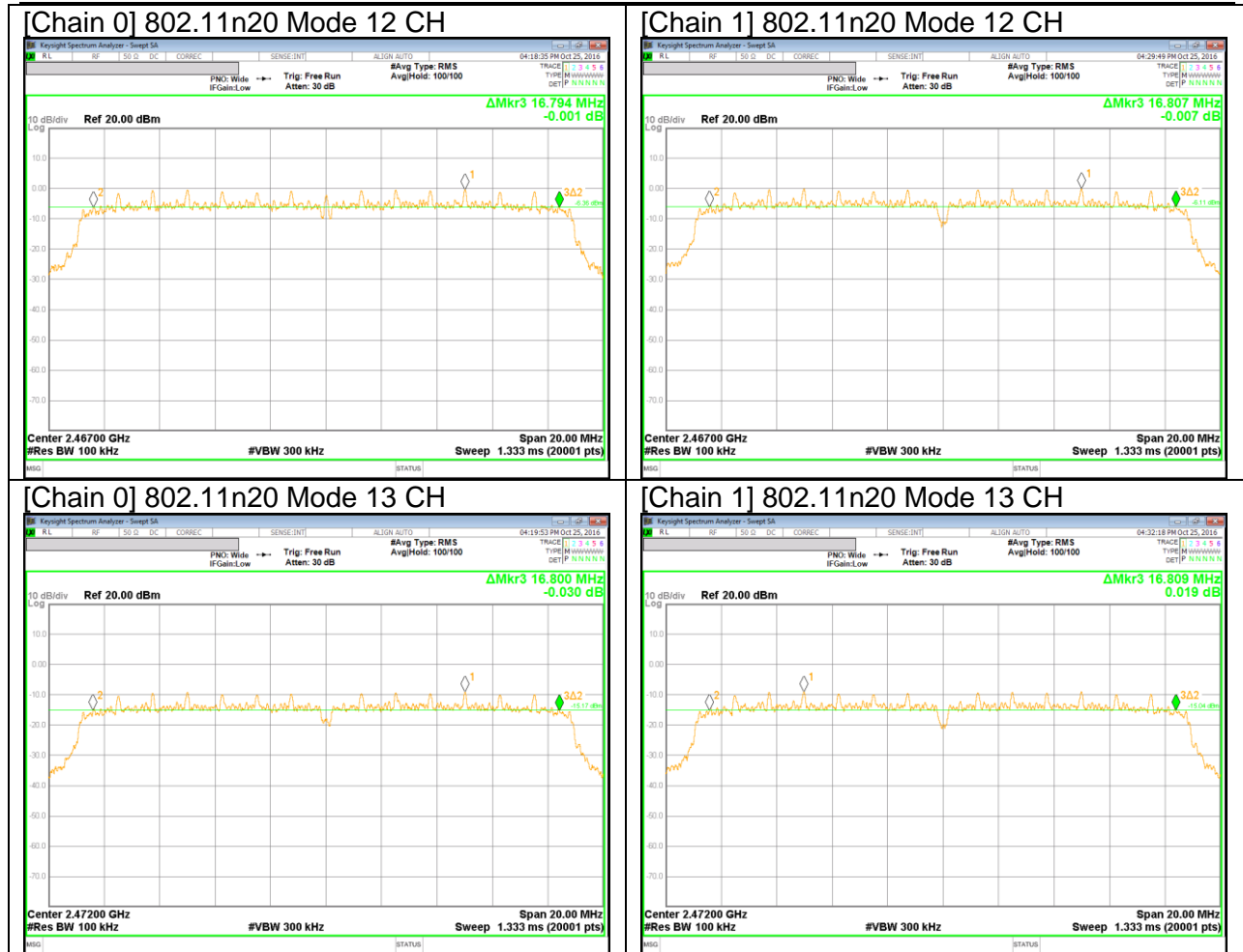


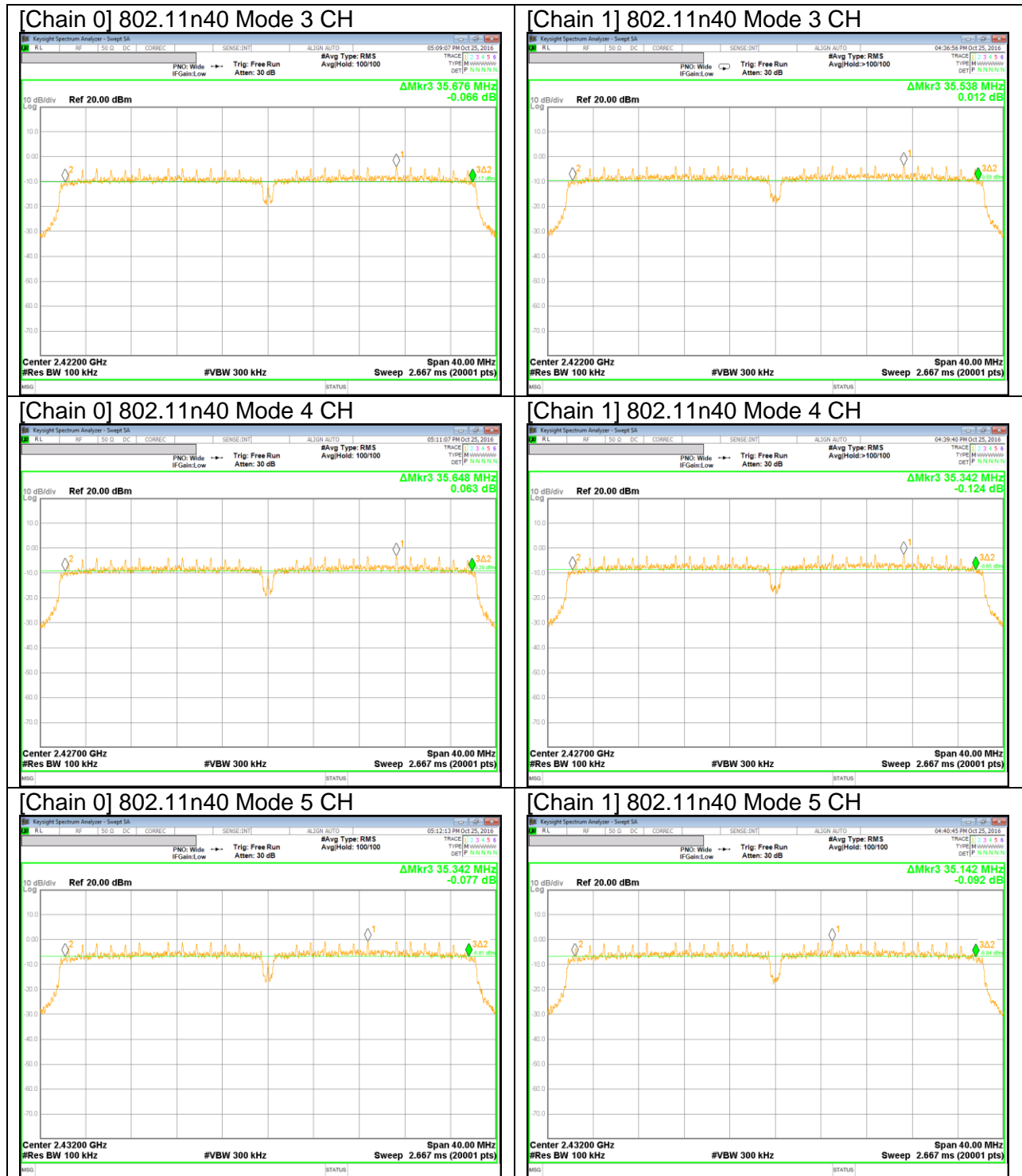


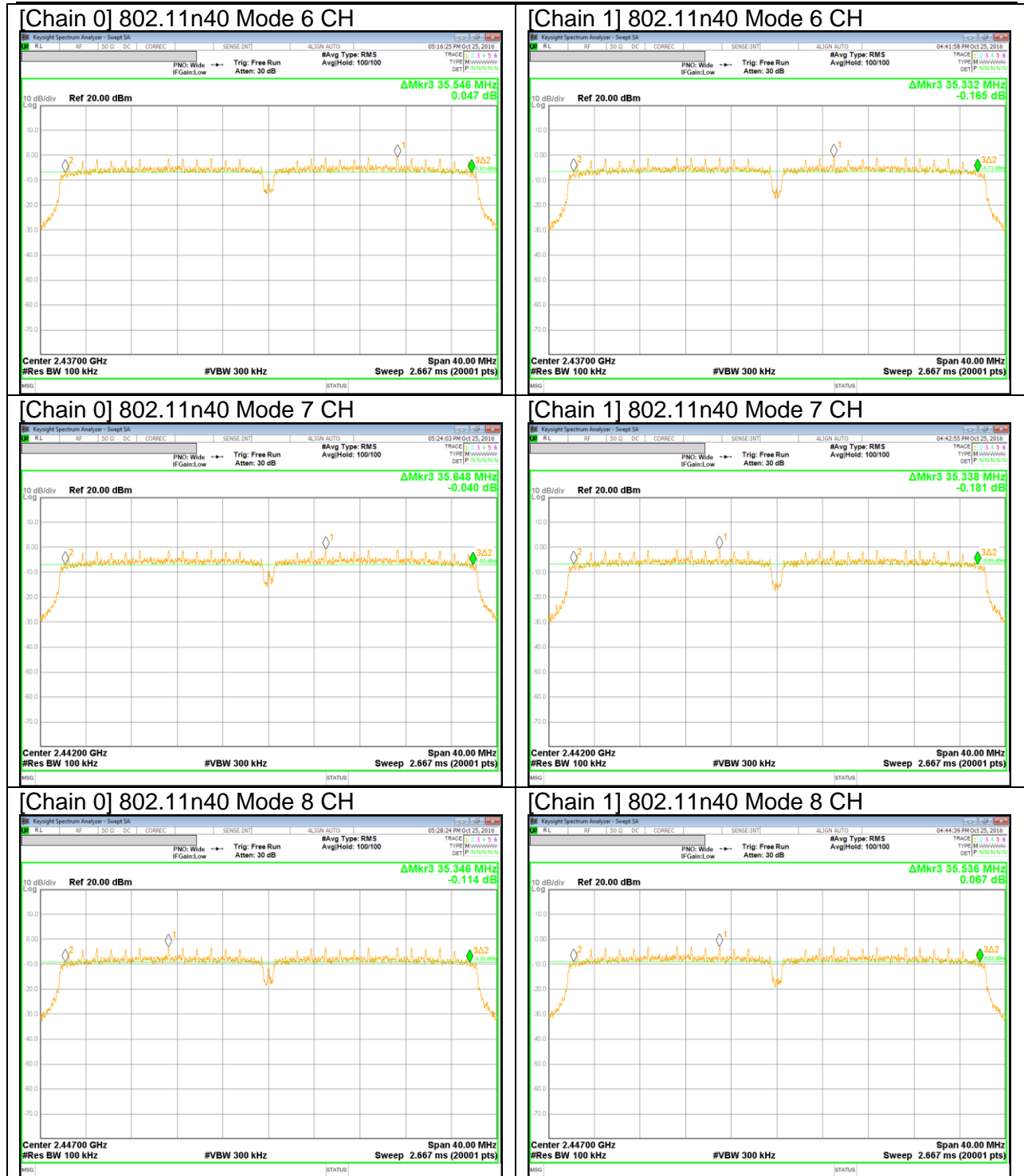


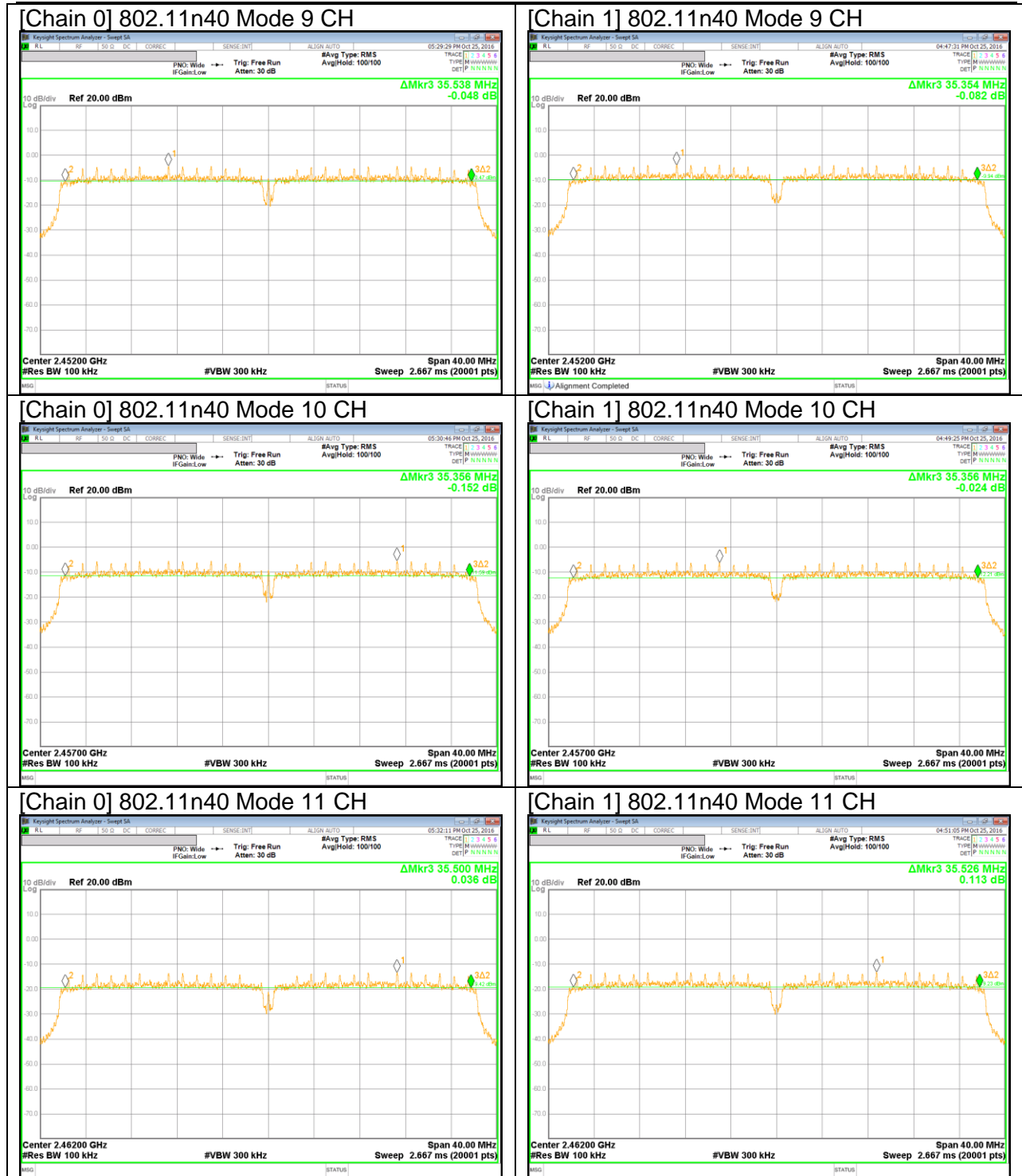












10.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

10.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary Antenna 1	Secondary Antenna 2
1	2412	13.053	13.030
6	2437	13.019	13.031
11	2462	13.043	13.049
12	2467	13.028	13.042
13	2472	13.035	13.030

10.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary Antenna 1	Secondary Antenna 2
1	2412	16.315	16.405
2	2417	16.422	16.424
6	2437	16.401	16.400
10	2457	16.402	16.406
11	2462	16.406	16.404
12	2467	16.385	16.402
13	2472	16.411	16.401

10.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
1	2412	17.546	17.594
2	2417	17.615	17.609
6	2437	17.623	17.579
10	2457	17.577	17.636
11	2462	17.609	17.603
12	2467	17.544	17.587
13	2472	17.594	17.596

10.2.4. 802.11n HT40 MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
3	2422	36.109	36.088
4	2427	36.183	36.107
5	2432	36.103	36.150
6	2437	36.089	36.054
7	2442	36.153	36.066
8	2447	36.080	36.055
9	2452	36.083	36.068
10	2457	36.066	36.107
11	2462	36.127	36.082

10.2.5. 99% BANDWIDTH PLOTS

