

TEST REPORT

Product : Wall-Mount AP Router
Trade mark : N/A
Model/Type reference : WF2A
Serial Number : N/A
Report Number : EED32I00114602
FCC ID : 2AH3Z-WF2A
Date of Issue : Dec. 08, 2016
Test Standards : 47 CFR Part 15Subpart C (2015)
Test result : PASS

Prepared for:

DAN-CHIEF TECHNOLOGY CO., LTD
4F., NO. 12, LN. 270, SEC. 3, BEI-SHEN RD., SHEN KENG DIST.,
NEW TAIPEI CITY 22205, TAIWAN

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:

Tom chen
Tom chen (Test Project)

Compiled by:

Kevin yang
Kevin yang (Project Engineer)

Reviewed by:

Kevin lan
Kevin lan (Reviewer)

Approved by:

Sheek Luo
Sheek Luo (Lab supervisor)



Date:

Dec. 08, 2016

Check No.: 2384364341

2 Version

Version No.	Date	Description
00	Dec. 08, 2016	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013/ KDB 558074 D01v03r05	PASS
Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample and the sample information are provided by the client.

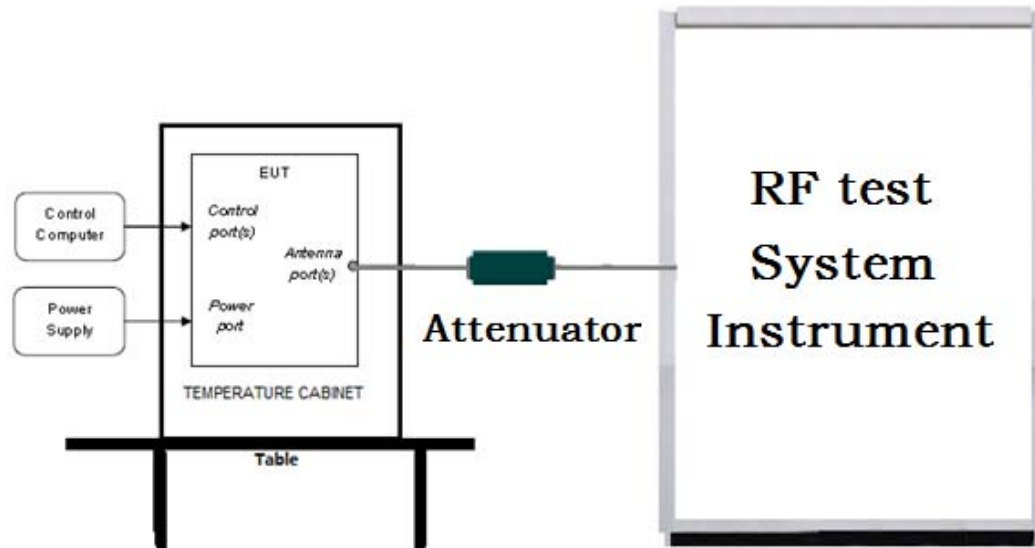
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

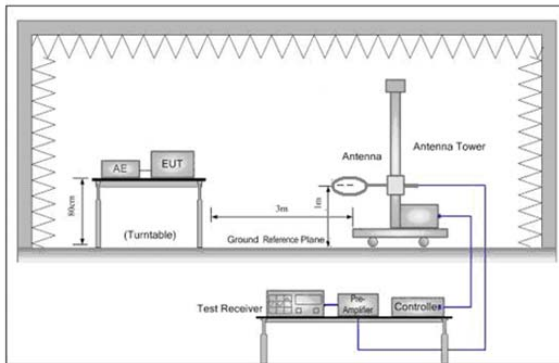


Figure 1. Below 30MHz

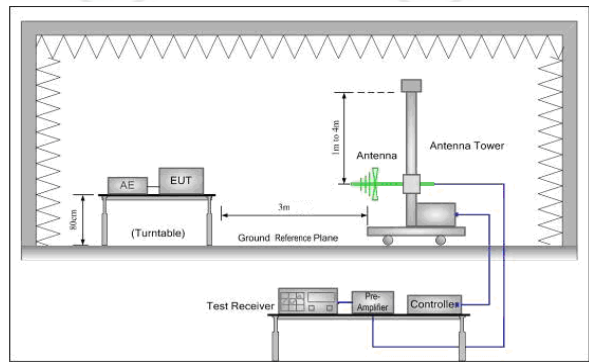


Figure 2. 30MHz to 1GHz

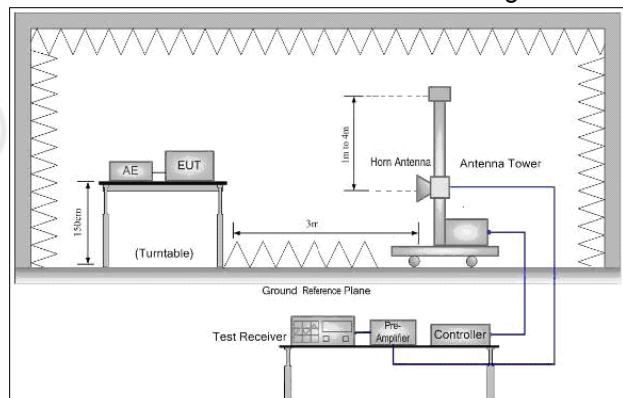
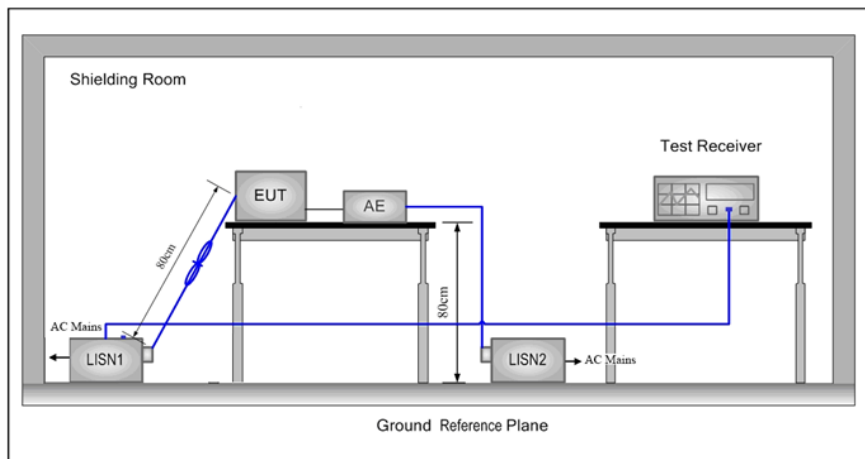


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24 °C
Humidity:	55 % RH
Atmospheric Pressure:	1010mbar

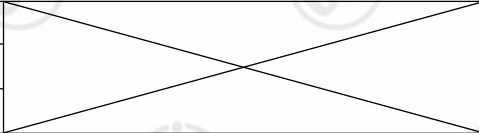
5.3 Test Condition

Test channel:

Test Mode	Tx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 1	Channel 4	Channel7
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT at Transmit mode			

Test mode:

Pre-scan under all rate at lowest channel for antenna

Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power(dBm)	9.35	9.40	9.43	9.45				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	9.26	9.25	9.21	9.20	9.17	9.15	9.11	9.04
Mode	802.11n (HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power(dBm)	8.88	8.85	8.81	8.80	8.74	8.71	8.70	8.66
Mode	802.11n (HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power(dBm)	8.27	8.25	8.22	8.20	8.20	8.19	8.13	8.11

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

6 General Information

6.1 Client Information

Applicant:	DAN-CHIEF TECHNOLOGY CO., LTD
Address of Applicant:	4F., NO. 12, LN. 270, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY 22205, TAIWAN
Manufacturer:	NINGBO DAN-CHIEF NETWORK TECHNOLOGIES CO. LTD
Address of Manufacturer:	No.601 Hengshan West Road, Beilun District, Ningbo Zhejiang, China
Factory:	NINGBO DAN-CHIEF NETWORK TECHNOLOGIES CO. LTD
Address of Factory:	No.601 Hengshan West Road, Beilun District, Ningbo Zhejiang, China

6.2 General Description of EUT

Product Name:	Wall-Mount AP Router
Model No.(EUT):	WF2A
Trade Mark:	N/A
EUT Supports Radios application:	Wlan 2.4GHz 802.11b/g/n(HT20&HT40)
Power Supply:	DC 44-57V
Sample Received Date:	Nov. 17, 2016
Sample tested Date:	Nov. 17, 2016 to Dec. 05, 2016

6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Sample Type:	fixed production
Test Power Grade:	0 (manufacturer declare)
Test Software of EUT:	MT7620 V1.0.6(manufacturer declare)
Antenna Type	Integral
Antenna Gain:	3dBi
Test Voltage:	DC 48V by POE Port

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel(802.11n HT40)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2422MHz	4	2437MHz	7	2452MHz
2	2427MHz	5	2442MHz		
3	2432MHz	6	2447MHz		

6.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
PC	HP	HP 430 G3	DOC	CTI
Router	--	TP-Link	DOC	CTI
adapter	MW	GST160A48	DOC	client
Router	VOLKTEK	HNS-8605P	DOC	client

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

6.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2 .

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

6.7 Deviation from Standards

None.

6.8 Abnormalities from Standard Conditions

None.

6.9 Other Information Requested by the Customer

None.

6.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Communication test set test set	Agilent	N4010A	MY51400230	04-01-2016	03-31-2017
Spectrum Analyzer	Keysight	N9010A	MY54510339	04-01-2016	03-31-2017
Signal Generator	Keysight	N5182B	MY53051549	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	01-12-2016	01-11-2017
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-12-2016	01-11-2017
DC Power	Keysight	E3642A	MY54436035	04-01-2016	03-31-2017
PC-1	Lenovo	R4960d	---	04-01-2016	03-31-2017
power meter & power sensor	R&S	OSP120	101374	04-01-2016	03-31-2017
RF control unit	JS Tonscend	JS0806-2	158060006	04-01-2016	03-31-2017
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	04-01-2016	03-31-2017

Conducted disturbance Test					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100009	06-16-2016	06-15-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017
LISN	R&S	ENV216	100098	06-16-2016	06-15-2017
LISN	schwarzbeck	NNLK8121	8121-529	06-16-2016	06-15-2017
Voltage Probe	R&S	ESH2-Z3	--	07-09-2014	07-07-2017
Current Probe	R&S	EZ17	100106	06-16-2016	06-15-2017
ISN	TESEQ GmbH	ISN T800	30297	01-29-2015	01-27-2017

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-05-2016	06-05-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-23-2016	05-22-2017
Microwave Preamplifier	Agilent	8449B	3008A02425	02-04-2016	02-03-2017
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Horn Antenna	A.H.SYSTEMS	SAS-574	374	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
Multi device Controller	maturo	NCD/070/1071 1112	---	01-12-2016	01-11-2017
LISN	schwarzbeck	NNBM8125	81251547	06-16-2016	06-15-2017
LISN	schwarzbeck	NNBM8125	81251548	06-16-2016	06-15-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-11-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-11-2017
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	01-12-2016	01-11-2017
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	---	01-12-2016	01-11-2017

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C (2015)	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
4	KDB 558074 D01 v03r05	DTS Meas Guidance

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10/ KDB 558074 KDB 662911	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10/ KDB 558074	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10/ KDB 558074 KDB 662911	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10/ KDB 558074 KDB 662911	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10/ KDB 558074 KDB 662911	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

Appendix A): Conducted Peak Output Power

Test Procedure

1. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Measure the conducted output power and record the results in the test report.

Directional Antenna Gain

The TX chains are correlated, the antenna gain is equal among the chains.

Employs an antenna that operates simultaneously on multiple directional beams using the same frequency channels. No carrier aggregation techniques.

The directional gain is:

Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Correlated Chains Directional Gain (dBi)
0	0	3.01

Result Table

Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	Ant1	LCH	9.45	PASS
11B	Ant2	LCH	9.41	PASS
11B	Ant1	MCH	9.99	PASS
11B	Ant2	MCH	9.86	PASS
11B	Ant1	HCH	9.28	PASS
11B	Ant2	HCH	9.53	PASS
11G	Ant1	LCH	9.26	PASS
11G	Ant2	LCH	9.21	PASS
11G	Ant1	MCH	9	PASS
11G	Ant2	MCH	9.2	PASS
11G	Ant1	HCH	9.22	PASS
11G	Ant2	HCH	9.06	PASS
11N20SISO	Ant1	LCH	8.88	PASS
11N20SISO	Ant2	LCH	8.99	PASS
11N20SISO	Ant1	MCH	8.94	PASS
11N20SISO	Ant2	MCH	8.36	PASS
11N20SISO	Ant1	HCH	8.58	PASS
11N20SISO	Ant2	HCH	8.31	PASS
11N20MIMO	Ant1	LCH	7.48	PASS
11N20MIMO	Ant2	LCH	8.31	PASS
11N20MIMO	Ant1+2	LCH	10.92	PASS
11N20MIMO	Ant1	MCH	8	PASS
11N20MIMO	Ant2	MCH	8.24	PASS
11N20MIMO	Ant1+2	MCH	11.13	PASS
11N20MIMO	Ant1	HCH	8.06	PASS
11N20MIMO	Ant2	HCH	7.74	PASS
11N20MIMO	Ant1+2	HCH	10.91	PASS
11N40SISO	Ant1	LCH	8.27	PASS
11N40SISO	Ant2	LCH	8.29	PASS

11N40SISO	Ant1	MCH	8.59	PASS
11N40SISO	Ant2	MCH	8.21	PASS
11N40SISO	Ant1	HCH	8.47	PASS
11N40SISO	Ant2	HCH	8.08	PASS
11N40MIMO	Ant1	LCH	7.61	PASS
11N40MIMO	Ant2	LCH	8.46	PASS
11N40MIMO	Ant1+2	LCH	11.06	PASS
11N40MIMO	Ant1	MCH	8.13	PASS
11N40MIMO	Ant2	MCH	8.48	PASS
11N40MIMO	Ant1+2	MCH	11.31	PASS
11N40MIMO	Ant1	HCH	8.49	PASS
11N40MIMO	Ant2	HCH	8.38	PASS
11N40MIMO	Ant1+2	HCH	11.44	PASS

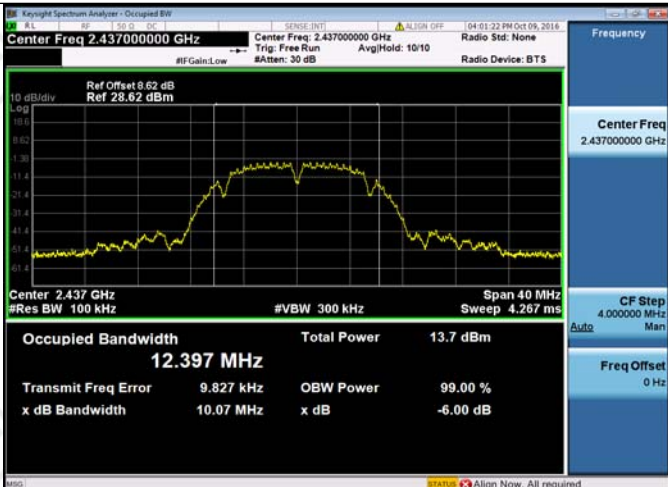
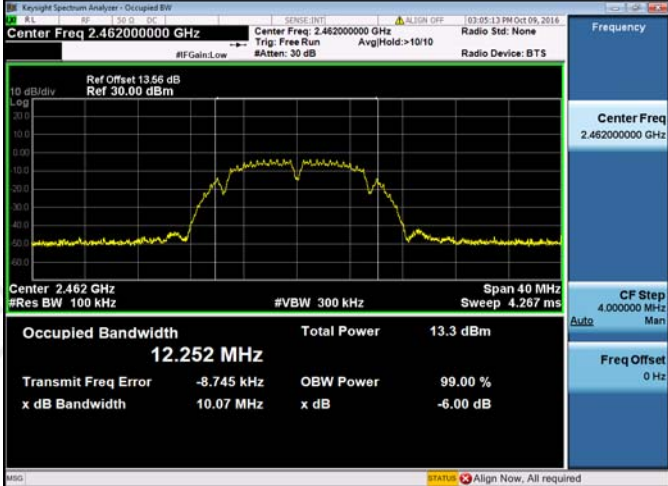
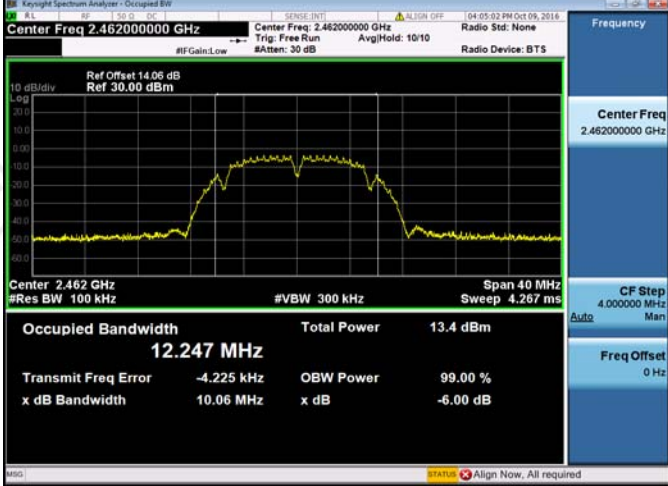
Appendix B): 6dB Occupied Bandwidth

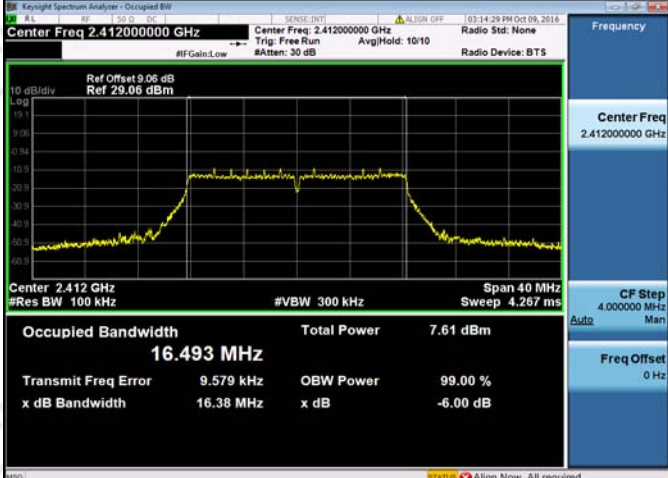
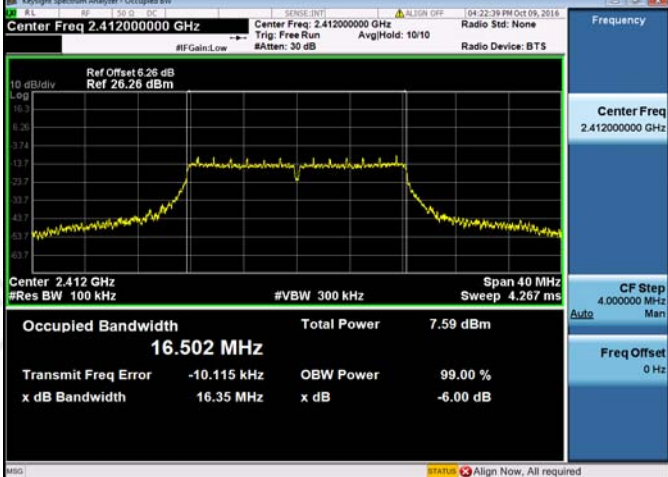
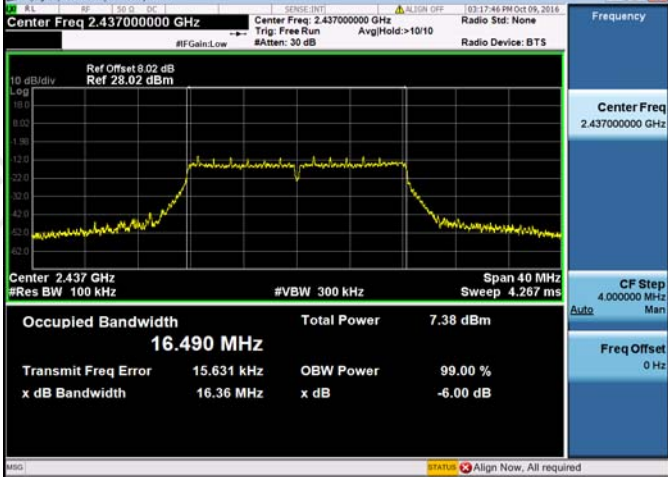
Result Table

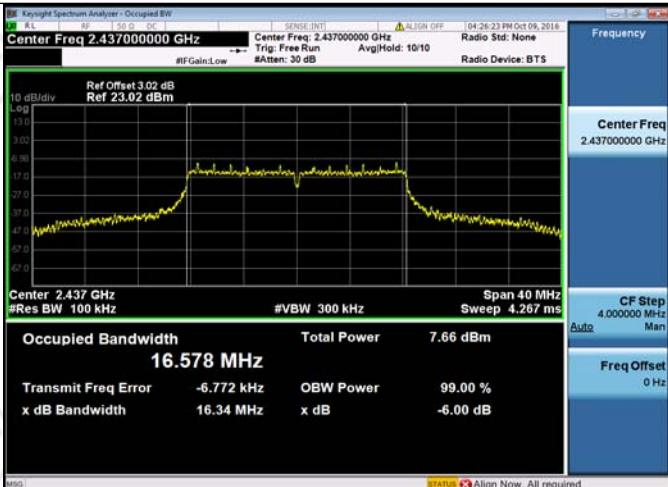
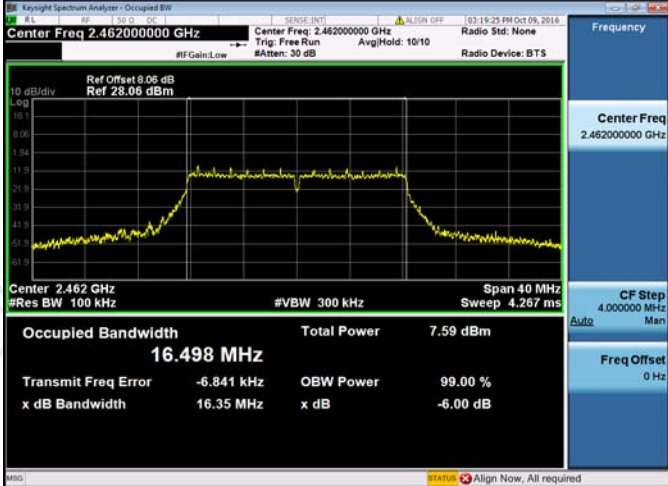
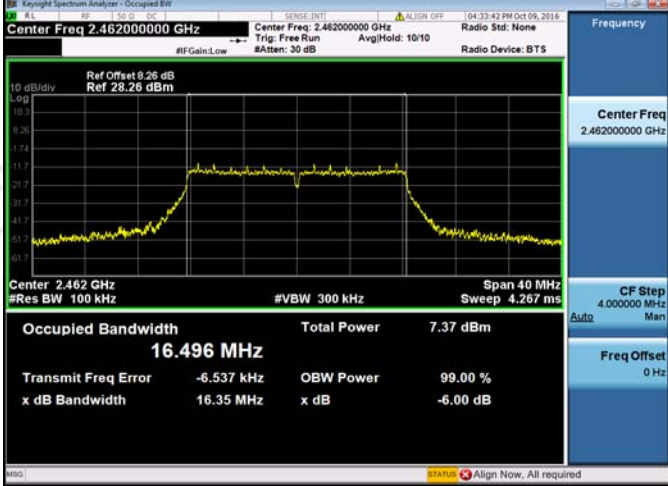
Mode	Antenna	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	Remark
11B	Ant1	LCH	9.558	12.231	PASS	Peak detector
11B	Ant2	LCH	10.08	12.268	PASS	
11B	Ant1	MCH	10.04	12.242	PASS	
11B	Ant2	MCH	10.07	12.397	PASS	
11B	Ant1	HCH	10.07	12.252	PASS	
11B	Ant2	HCH	10.06	12.247	PASS	
11G	Ant1	LCH	16.38	16.493	PASS	
11G	Ant2	LCH	16.35	16.502	PASS	
11G	Ant1	MCH	16.36	16.490	PASS	
11G	Ant2	MCH	16.34	16.578	PASS	
11G	Ant1	HCH	16.35	16.498	PASS	
11G	Ant2	HCH	16.35	16.496	PASS	
11N20SISO	Ant1	LCH	17.29	17.575	PASS	
11N20SISO	Ant2	LCH	17.07	17.583	PASS	
11N20SISO	Ant1	MCH	17.07	17.581	PASS	
11N20SISO	Ant2	MCH	17.27	17.650	PASS	
11N20SISO	Ant1	HCH	17.05	17.582	PASS	
11N20SISO	Ant2	HCH	17.04	17.577	PASS	
11N20MIMO	Ant1	LCH	17.10	17.581	PASS	
11N20MIMO	Ant2	LCH	17.07	17.581	PASS	
11N20MIMO	Ant1	MCH	17.06	17.578	PASS	
11N20MIMO	Ant2	MCH	17.52	17.585	PASS	
11N20MIMO	Ant1	HCH	17.30	17.589	PASS	
11N20MIMO	Ant2	HCH	17.31	17.583	PASS	
11N40SISO	Ant1	LCH	36.02	36.180	PASS	
11N40SISO	Ant2	LCH	36.39	36.207	PASS	
11N40SISO	Ant1	MCH	36.05	36.157	PASS	
11N40SISO	Ant2	MCH	36.29	36.184	PASS	
11N40SISO	Ant1	HCH	36.29	36.150	PASS	
11N40SISO	Ant2	HCH	35.81	36.188	PASS	
11N40MIMO	Ant1	LCH	35.91	36.213	PASS	
11N40MIMO	Ant2	LCH	36.31	36.211	PASS	
11N40MIMO	Ant1	MCH	36.31	36.204	PASS	
11N40MIMO	Ant2	MCH	36.29	36.210	PASS	
11N40MIMO	Ant1	HCH	36.28	36.190	PASS	
11N40MIMO	Ant2	HCH	36.28	36.212	PASS	

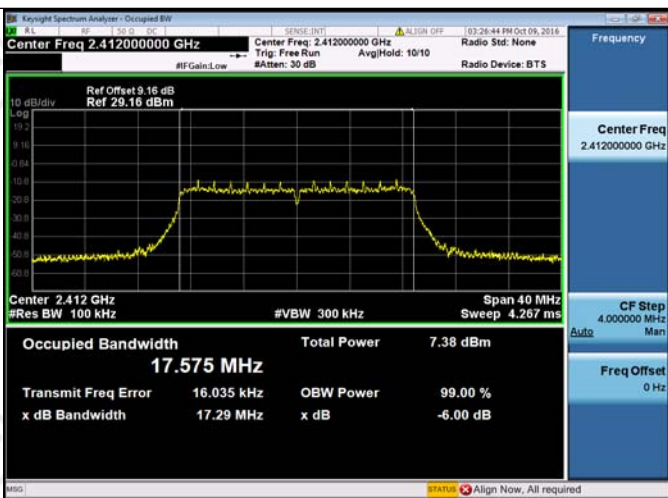
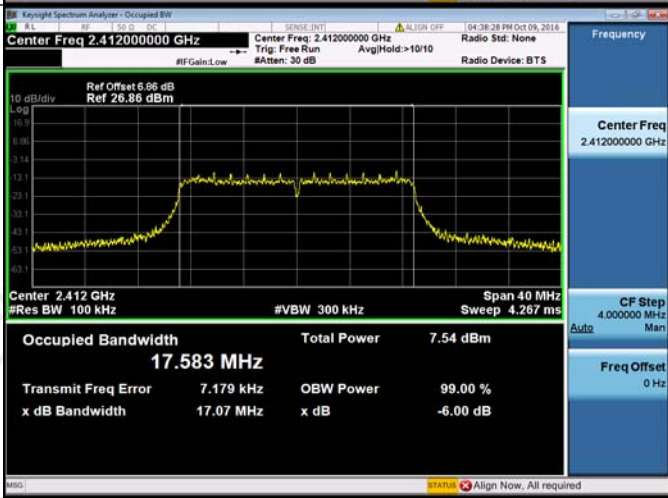
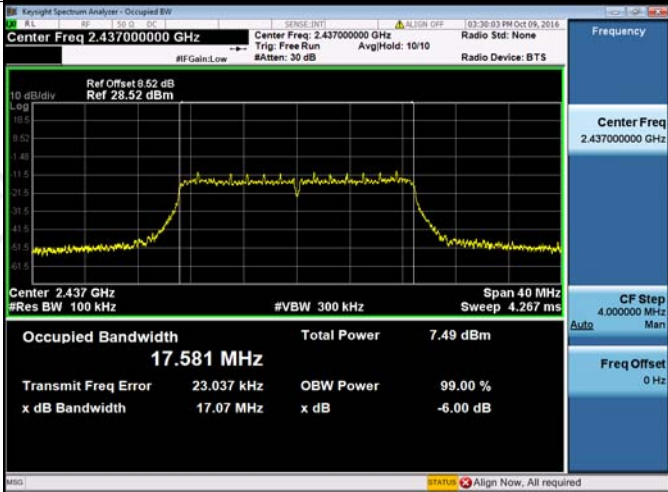
Test Graph

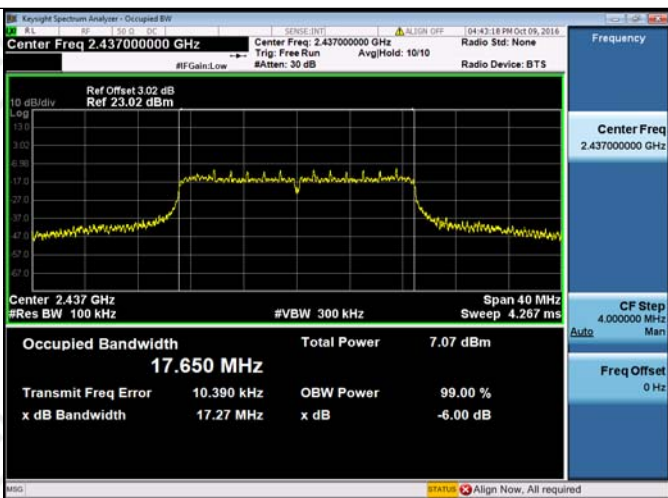
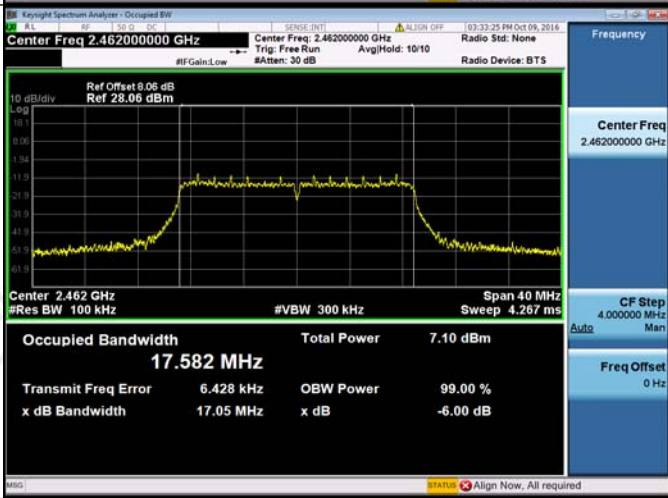
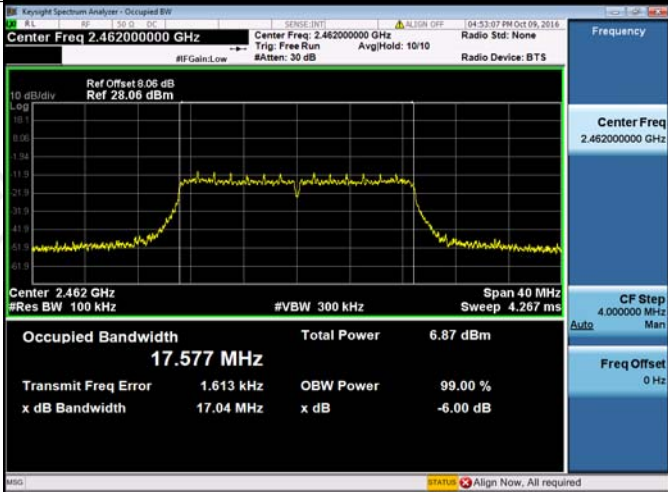


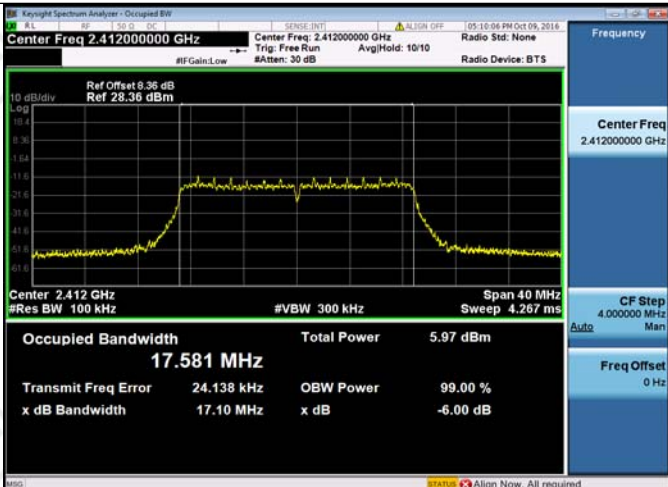
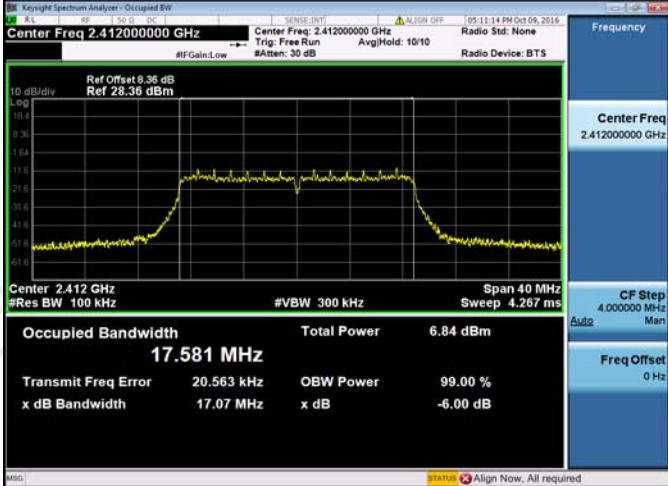
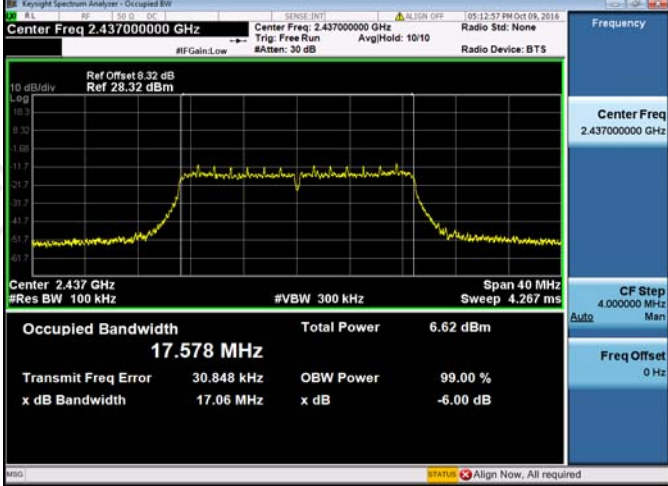
11B/MCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.62 dB Ref 28.62 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 12.397 MHz Total Power 13.7 dBm Transmit Freq Error 9.827 kHz OBW Power 99.00 % x dB Bandwidth 10.07 MHz x dB -6.00 dB Frequency 2.437000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz
11B/HCH_Ant1	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 13.56 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 12.252 MHz Total Power 13.3 dBm Transmit Freq Error -8.745 kHz OBW Power 99.00 % x dB Bandwidth 10.07 MHz x dB -6.00 dB Frequency 2.462000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz
11B/HCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 14.06 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 12.247 MHz Total Power 13.4 dBm Transmit Freq Error -4.225 kHz OBW Power 99.00 % x dB Bandwidth 10.06 MHz x dB -6.00 dB Frequency 2.462000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz

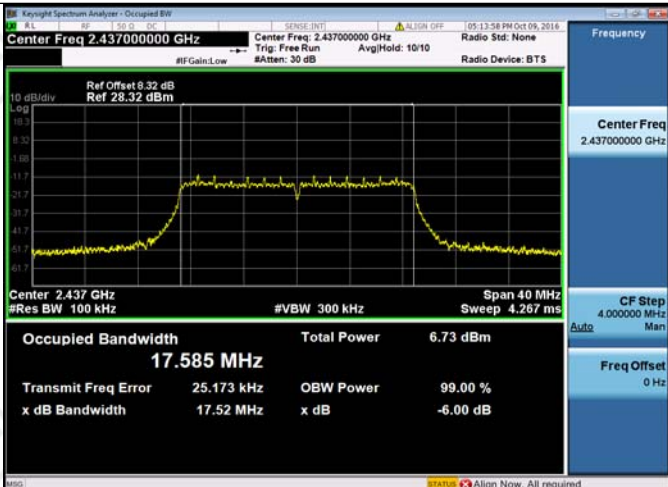
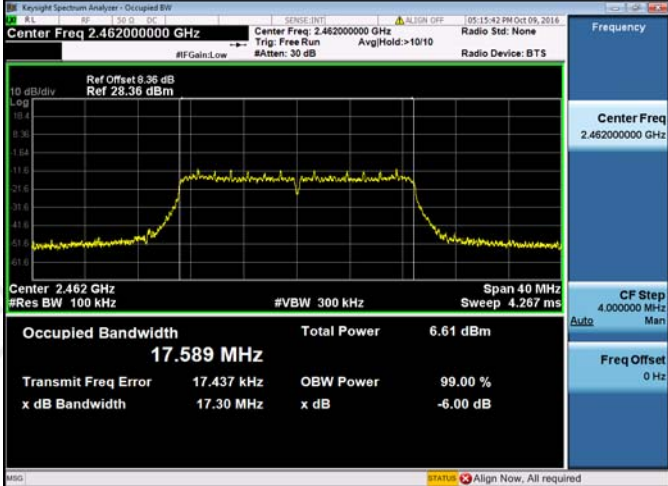
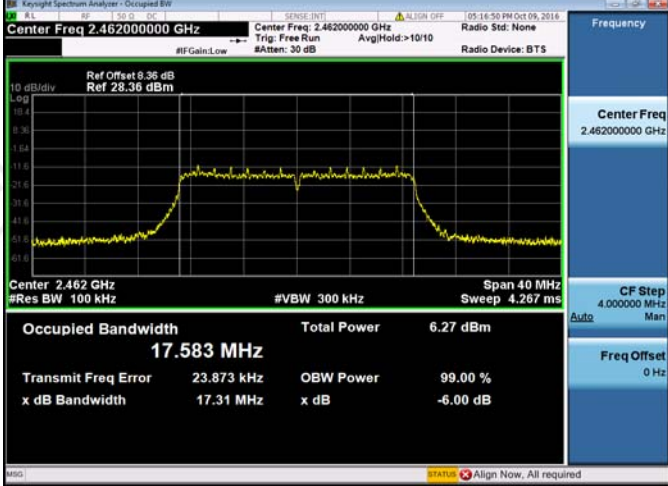
11G/LCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 8.06 dB Ref 29.06 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.493 MHz Total Power 7.61 dBm Transmit Freq Error 9.579 kHz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB
11G/LCH_Ant2	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 8.26 dB Ref 26.26 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.502 MHz Total Power 7.59 dBm Transmit Freq Error -10.115 kHz OBW Power 99.00 % x dB Bandwidth 16.35 MHz x dB -6.00 dB
11G/MCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.02 dB Ref 28.02 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.490 MHz Total Power 7.38 dBm Transmit Freq Error 15.631 kHz OBW Power 99.00 % x dB Bandwidth 16.36 MHz x dB -6.00 dB

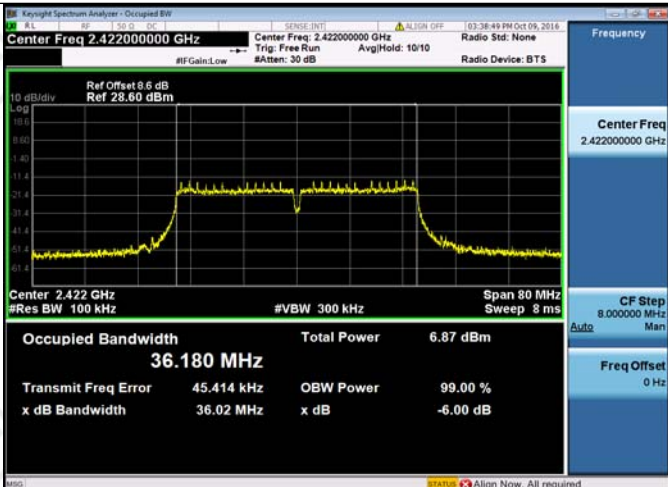
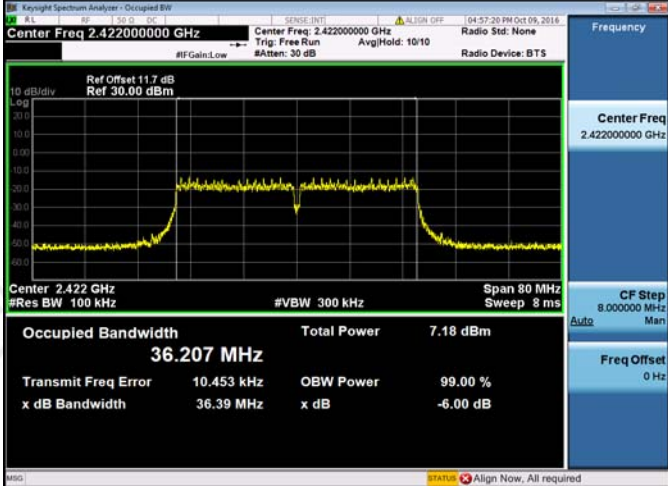
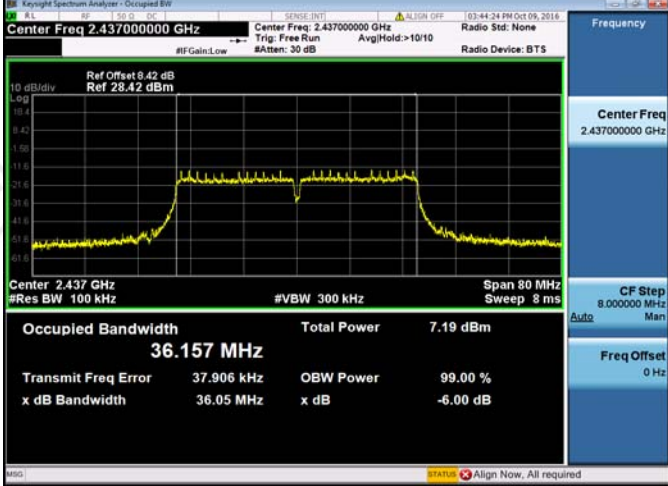
11G/MCH_Ant2	 Key: Keysight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 3.02 dB Ref 23.02 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.578 MHz Total Power 7.66 dBm Transmit Freq Error -6.772 kHz OBW Power 99.00 % x dB Bandwidth 16.34 MHz x dB -6.00 dB
11G/HCH_Ant1	 Key: Keysight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.06 dB Ref 28.06 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.498 MHz Total Power 7.59 dBm Transmit Freq Error -6.841 kHz OBW Power 99.00 % x dB Bandwidth 16.35 MHz x dB -6.00 dB
11G/HCH_Ant2	 Key: Keysight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.26 dB Ref 28.26 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.496 MHz Total Power 7.37 dBm Transmit Freq Error -6.537 kHz OBW Power 99.00 % x dB Bandwidth 16.35 MHz x dB -6.00 dB

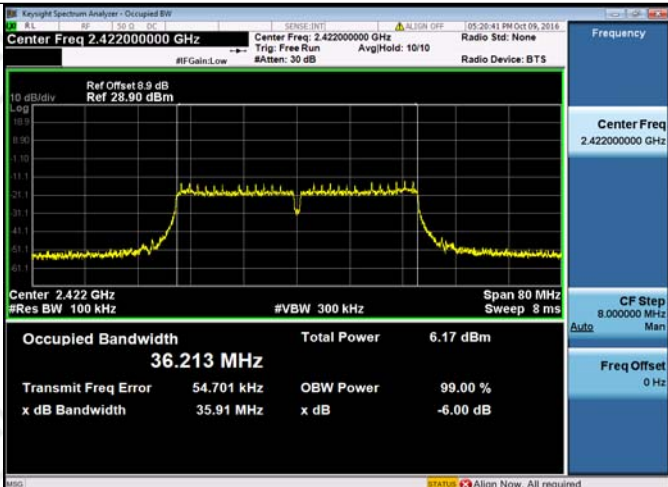
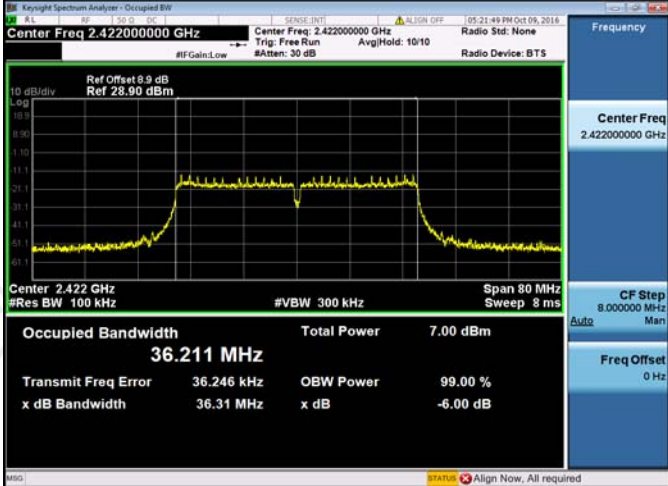
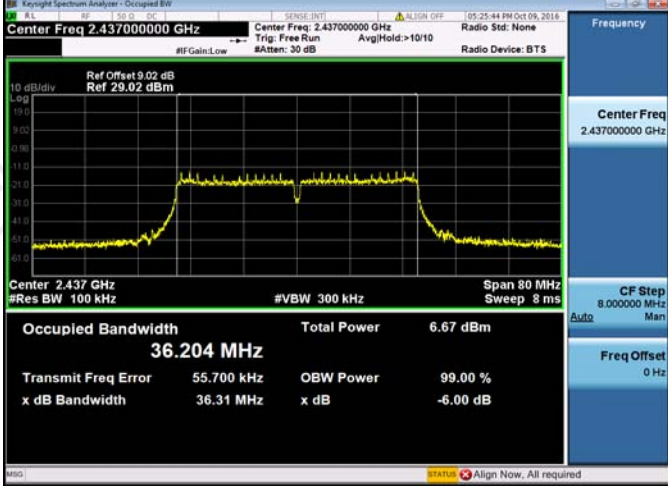
11N20SISO/LCH_Ant1	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 9.16 dB Ref 29.16 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.575 MHz Total Power 7.38 dBm Transmit Freq Error 16.035 kHz OBW Power 99.00 % x dB Bandwidth 17.29 MHz x dB -6.00 dB
11N20SISO/LCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 6.86 dB Ref 26.86 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.583 MHz Total Power 7.54 dBm Transmit Freq Error 7.179 kHz OBW Power 99.00 % x dB Bandwidth 17.07 MHz x dB -6.00 dB
11N20SISO/MCH_Ant1	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.52 dB Ref 28.52 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.581 MHz Total Power 7.49 dBm Transmit Freq Error 23.037 kHz OBW Power 99.00 % x dB Bandwidth 17.07 MHz x dB -6.00 dB

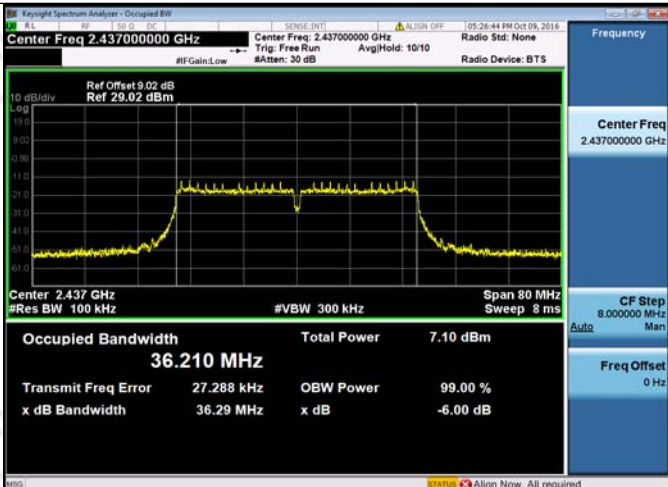
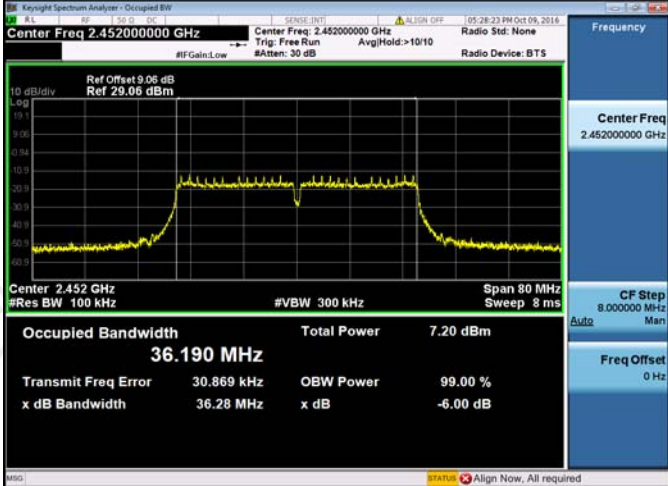
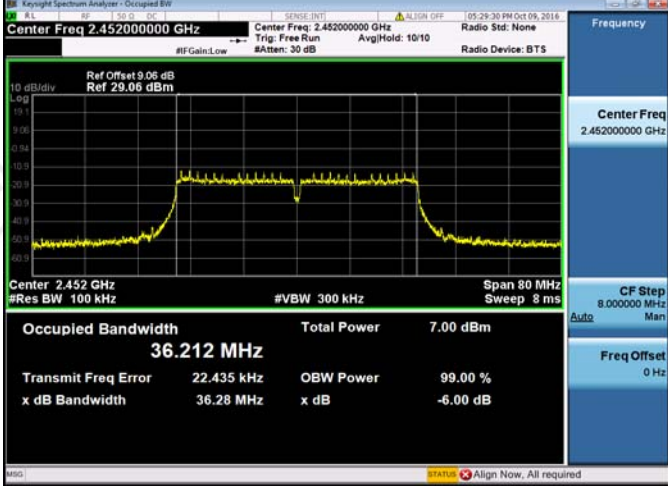
11N20SISO/MCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 3.02 dB Ref 23.02 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.650 MHz Total Power 7.07 dBm Transmit Freq Error 10.390 kHz OBW Power 99.00 % x dB Bandwidth 17.27 MHz x dB -6.00 dB
11N20SISO/HCH_Ant1	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.06 dB Ref 28.06 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.582 MHz Total Power 7.10 dBm Transmit Freq Error 6.428 kHz OBW Power 99.00 % x dB Bandwidth 17.05 MHz x dB -6.00 dB
11N20SISO/HCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.06 dB Ref 28.06 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.577 MHz Total Power 6.87 dBm Transmit Freq Error 1.613 kHz OBW Power 99.00 % x dB Bandwidth 17.04 MHz x dB -6.00 dB

11N20MIMO/LCH_Ant1	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 8.36 dB Ref 28.36 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.581 MHz Total Power 5.97 dBm Transmit Freq Error 24.138 kHz OBW Power 99.00 % x dB Bandwidth 17.10 MHz x dB -6.00 dB Frequency 2.41200000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz
11N20MIMO/LCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 8.36 dB Ref 28.36 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.581 MHz Total Power 6.84 dBm Transmit Freq Error 20.563 kHz OBW Power 99.00 % x dB Bandwidth 17.07 MHz x dB -6.00 dB Frequency 2.41200000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz
11N20MIMO/MCH_Ant1	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.32 dB Ref 28.32 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.578 MHz Total Power 6.62 dBm Transmit Freq Error 30.848 kHz OBW Power 99.00 % x dB Bandwidth 17.06 MHz x dB -6.00 dB Frequency 2.437000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz

11N20MIMO/MCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.32 dB Ref 28.32 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.585 MHz Total Power 6.73 dBm Transmit Freq Error 25.173 kHz OBW Power 99.00 % x dB Bandwidth 17.52 MHz x dB -6.00 dB
11N20MIMO/HCH_Ant1	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.36 dB Ref 28.36 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.589 MHz Total Power 6.61 dBm Transmit Freq Error 17.437 kHz OBW Power 99.00 % x dB Bandwidth 17.30 MHz x dB -6.00 dB
11N20MIMO/HCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 8.36 dB Ref 28.36 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.583 MHz Total Power 6.27 dBm Transmit Freq Error 23.873 kHz OBW Power 99.00 % x dB Bandwidth 17.31 MHz x dB -6.00 dB

11N40SISO/LCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 8.6 dB Ref 28.60 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.180 MHz Total Power 6.87 dBm Transmit Freq Error 45.414 kHz OBW Power 99.00 % x dB Bandwidth 36.02 MHz x dB -6.00 dB Frequency Center Freq 2.422000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/LCH_Ant2	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 11.7 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.207 MHz Total Power 7.18 dBm Transmit Freq Error 10.453 kHz OBW Power 99.00 % x dB Bandwidth 36.39 MHz x dB -6.00 dB Frequency Center Freq 2.422000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/MCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 8.42 dB Ref 28.42 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.157 MHz Total Power 7.19 dBm Transmit Freq Error 37.906 kHz OBW Power 99.00 % x dB Bandwidth 36.05 MHz x dB -6.00 dB Frequency Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

11N40MIMO/LCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 8.9 dB Ref 28.90 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.213 MHz Total Power 6.17 dBm Transmit Freq Error 54.701 kHz OBW Power 99.00 % x dB Bandwidth 35.91 MHz x dB -6.00 dB Frequency: Center Freq 2.42200000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/LCH_Ant2	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 8.9 dB Ref 28.90 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.211 MHz Total Power 7.00 dBm Transmit Freq Error 36.246 kHz OBW Power 99.00 % x dB Bandwidth 36.31 MHz x dB -6.00 dB Frequency: Center Freq 2.42200000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/MCH_Ant1	 Key: Knight Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 9.02 dB Ref 29.02 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.204 MHz Total Power 6.67 dBm Transmit Freq Error 55.700 kHz OBW Power 99.00 % x dB Bandwidth 36.31 MHz x dB -6.00 dB Frequency: Center Freq 2.43700000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

11N40MIMO/MCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 9.02 dB Ref 29.02 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.210 MHz Total Power 7.10 dBm Transmit Freq Error 27.288 kHz OBW Power 99.00 % x dB Bandwidth 36.29 MHz x dB -6.00 dB Frequency Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/HCH_Ant1	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 9.06 dB Ref 29.06 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.190 MHz Total Power 7.20 dBm Transmit Freq Error 30.869 kHz OBW Power 99.00 % x dB Bandwidth 36.28 MHz x dB -6.00 dB Frequency Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/HCH_Ant2	 Key: Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 9.06 dB Ref 29.06 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.212 MHz Total Power 7.00 dBm Transmit Freq Error 22.435 kHz OBW Power 99.00 % x dB Bandwidth 36.28 MHz x dB -6.00 dB Frequency Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

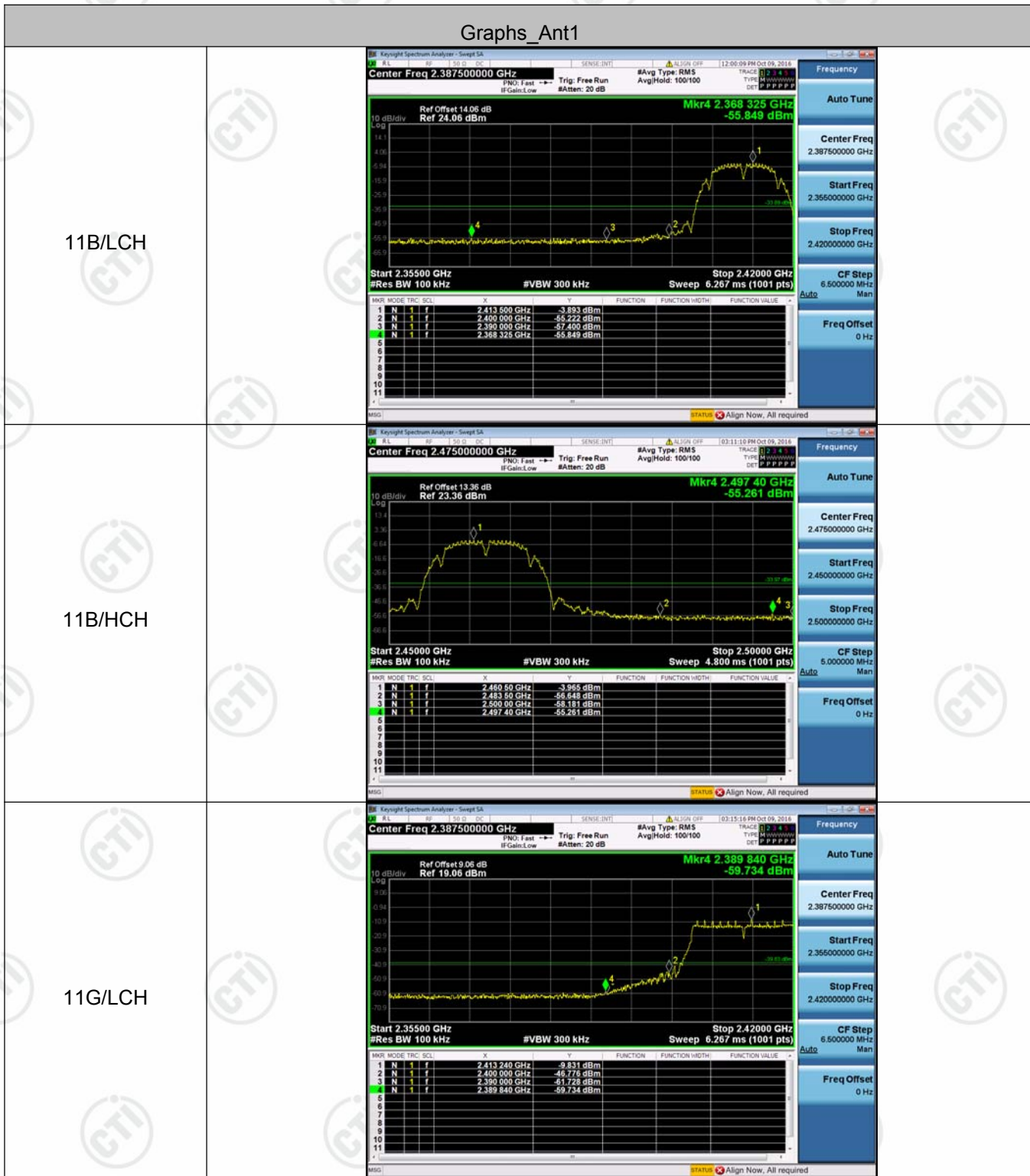
Appendix C): Band-edge for RF Conducted Emissions

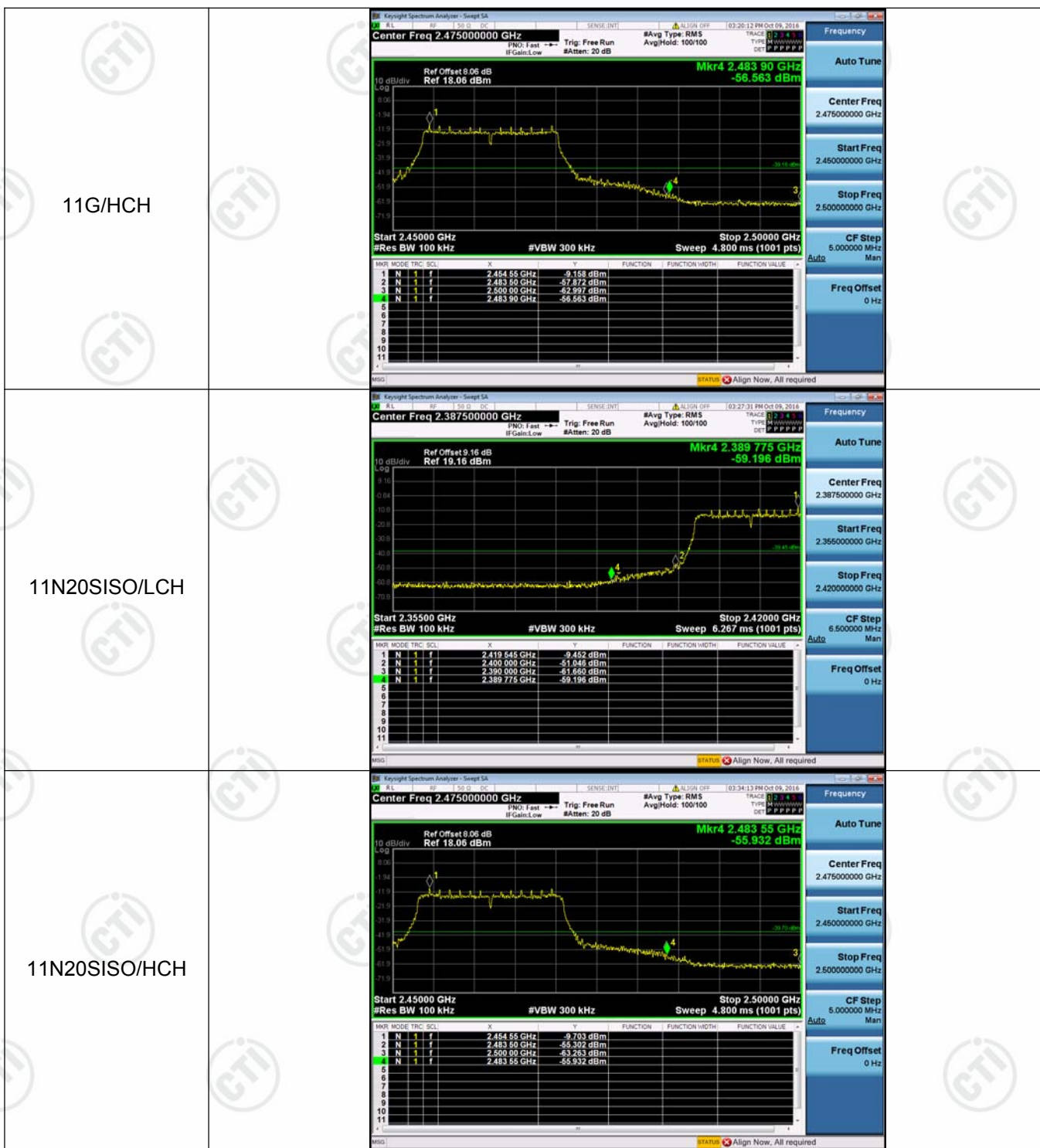
Result Table

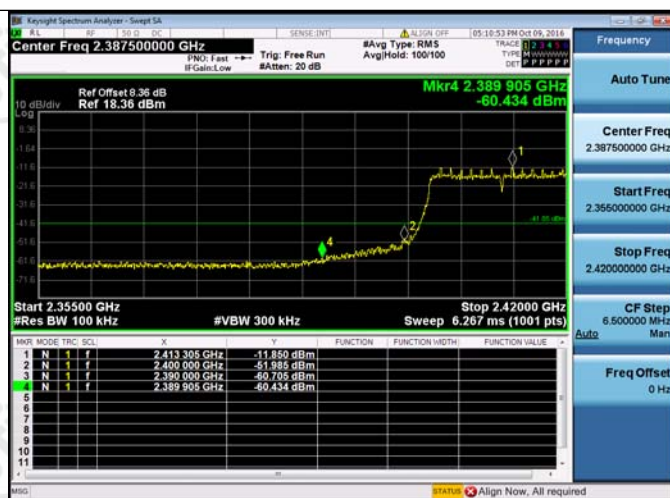
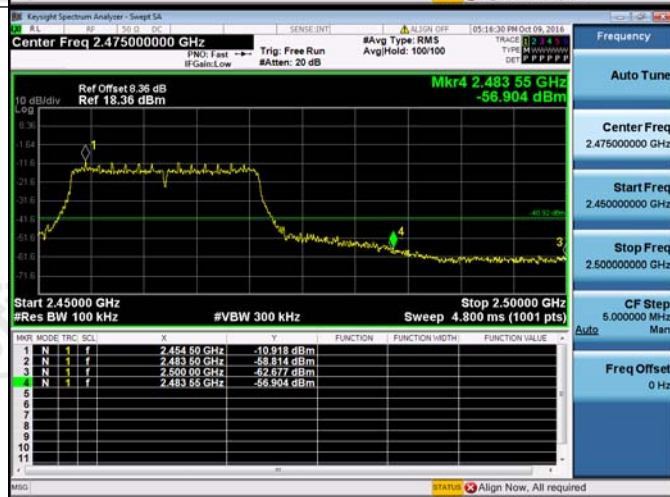
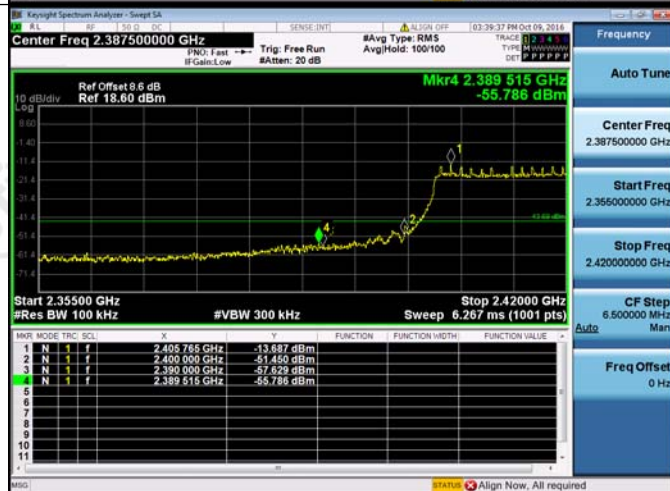
Mode	Antenna	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Ant1	LCH	-3.893	-55.849	-33.89	PASS
11B	Ant2	LCH	-3.817	-58.098	-33.82	PASS
11B	Ant1	HCH	-3.965	-55.261	-33.97	PASS
11B	Ant2	HCH	-3.673	-54.910	-33.67	PASS
11G	Ant1	LCH	-9.831	-59.734	-39.83	PASS
11G	Ant2	LCH	-9.692	-57.458	-39.69	PASS
11G	Ant1	HCH	-9.158	-56.563	-39.16	PASS
11G	Ant2	HCH	-9.325	-58.248	-39.33	PASS
11N20SISO	Ant1	LCH	-9.452	-59.196	-39.45	PASS
11N20SISO	Ant2	LCH	-9.434	-55.825	-39.43	PASS
11N20SISO	Ant1	HCH	-9.703	-55.932	-39.7	PASS
11N20SISO	Ant2	HCH	-10.084	-56.189	-40.08	PASS
11N20MIMO	Ant1	LCH	-11.850	-60.434	-41.85	PASS
11N20MIMO	Ant2	LCH	-10.167	-58.917	-40.17	PASS
11N20MIMO	Ant1	HCH	-10.918	-56.904	-40.92	PASS
11N20MIMO	Ant2	HCH	-10.503	-58.281	-40.5	PASS
11N40SISO	Ant1	LCH	-13.687	-55.786	-43.69	PASS
11N40SISO	Ant2	LCH	-13.455	-56.737	-43.46	PASS
11N40SISO	Ant1	HCH	-13.475	-51.213	-43.48	PASS
11N40SISO	Ant2	HCH	-14.207	-52.896	-44.21	PASS
11N40MIMO	Ant1	LCH	-14.035	-56.662	-44.04	PASS
11N40MIMO	Ant2	LCH	-12.965	-53.057	-42.97	PASS
11N40MIMO	Ant1	HCH	-13.629	-52.657	-43.63	PASS
11N40MIMO	Ant2	HCH	-13.587	-52.482	-43.59	PASS

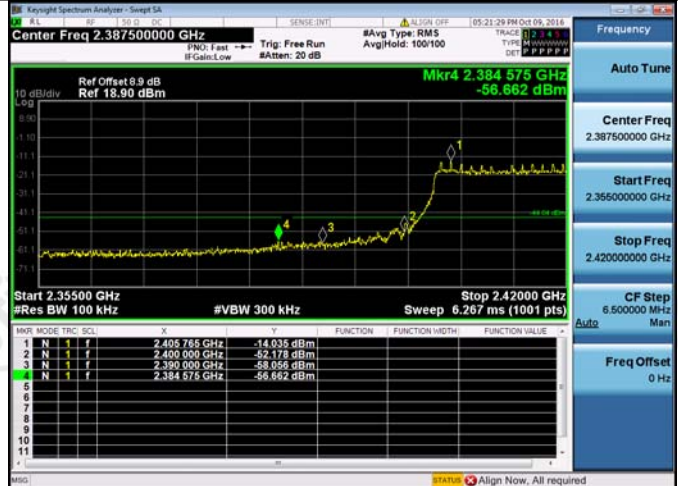
Test Graph

Graphs_Ant1

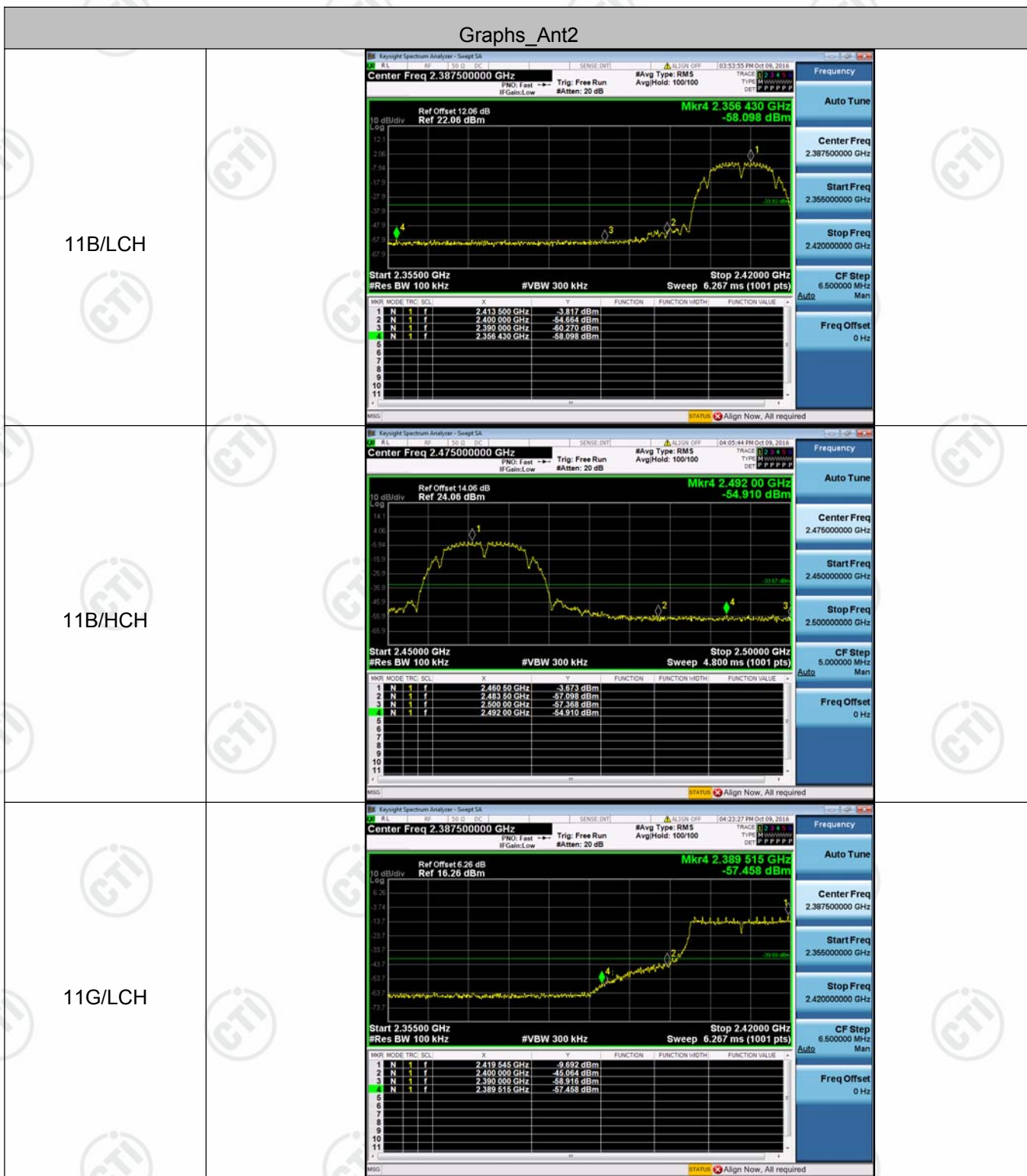


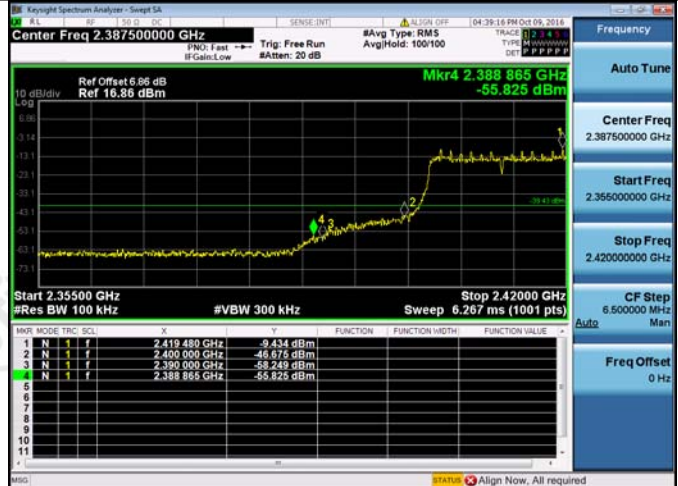


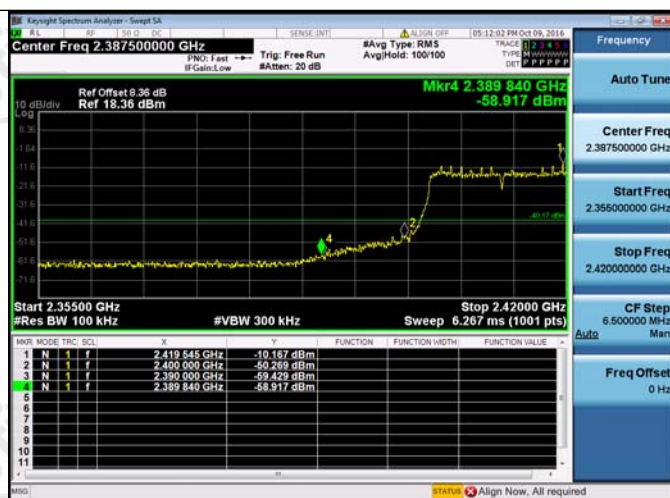
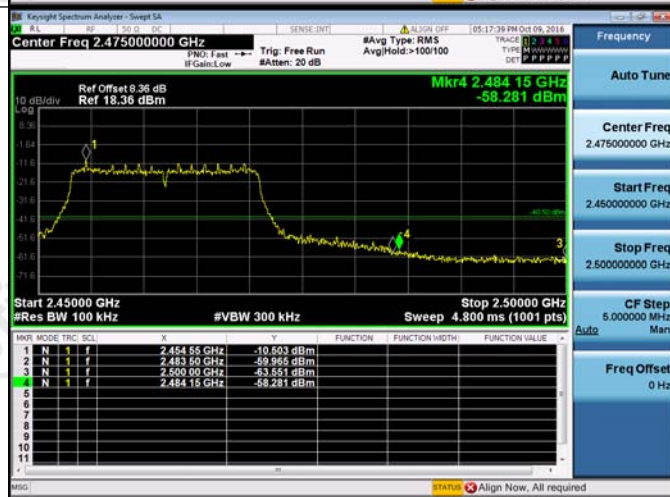
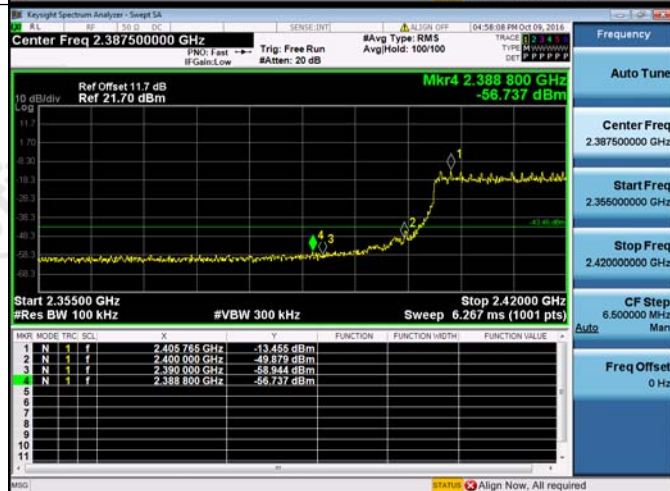
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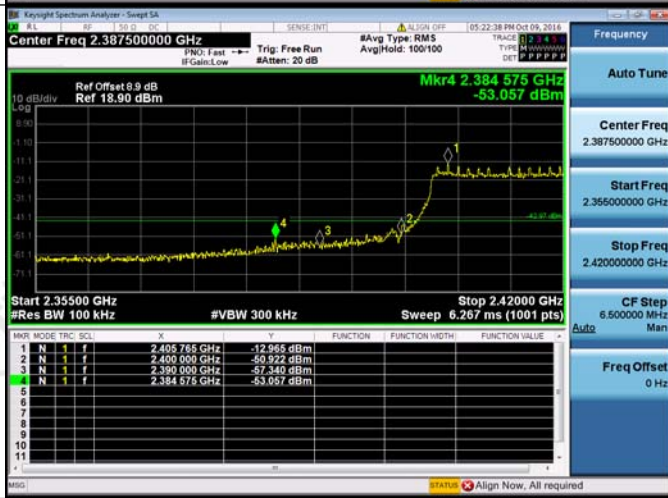
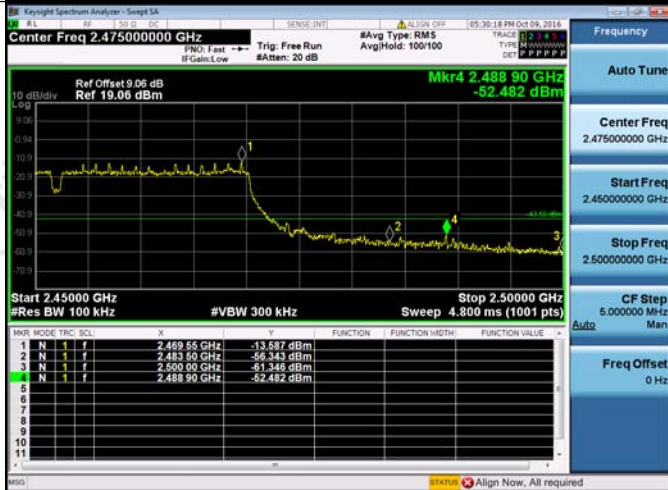
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Graphs_Ant2



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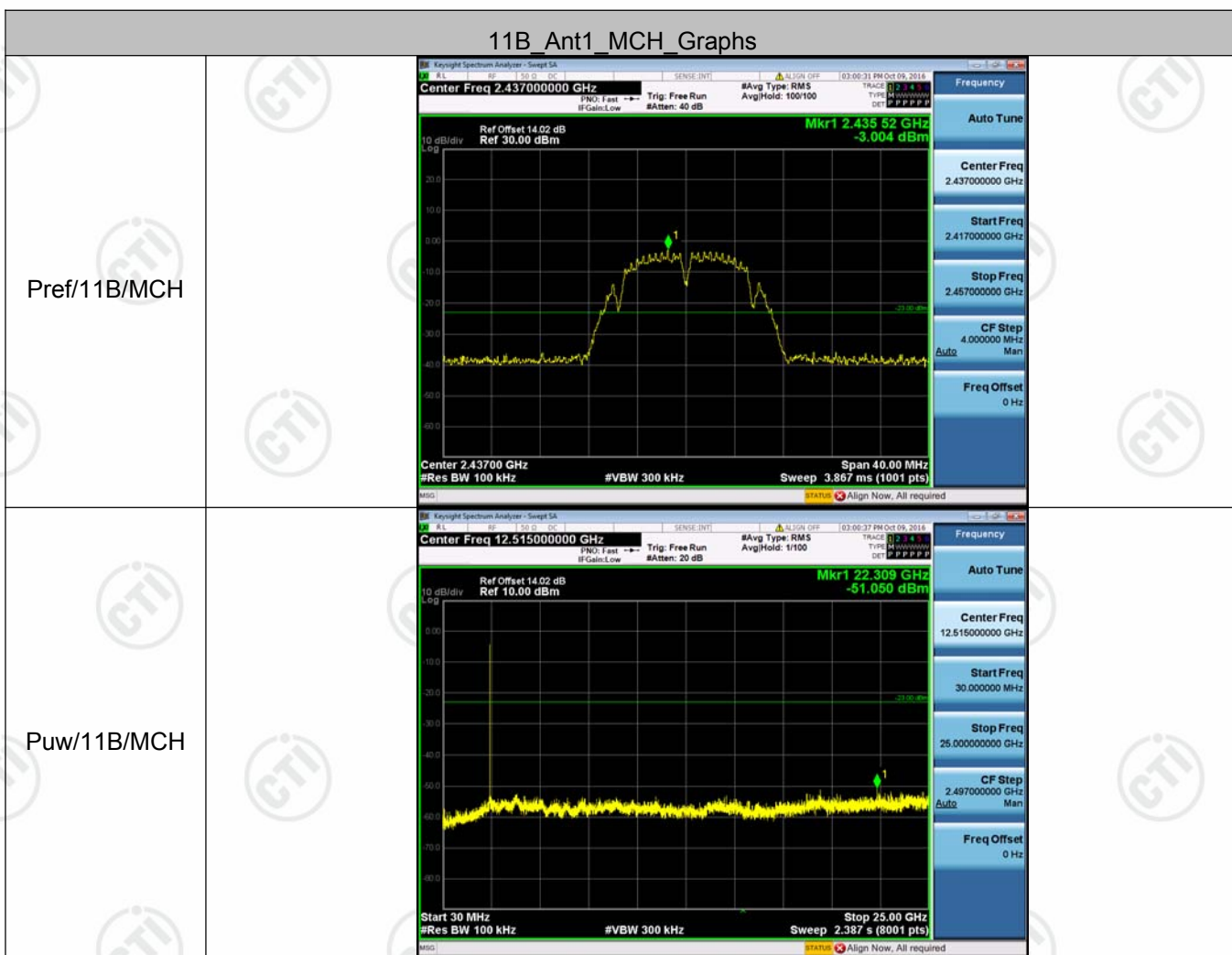
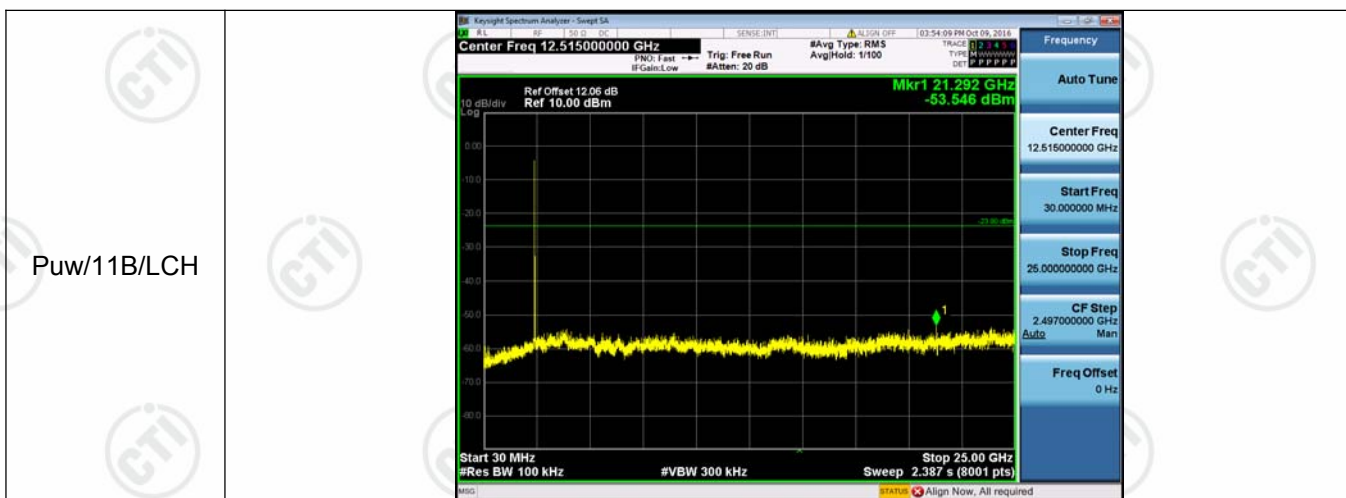
Appendix D): RF Conducted Spurious Emissions

Result Table

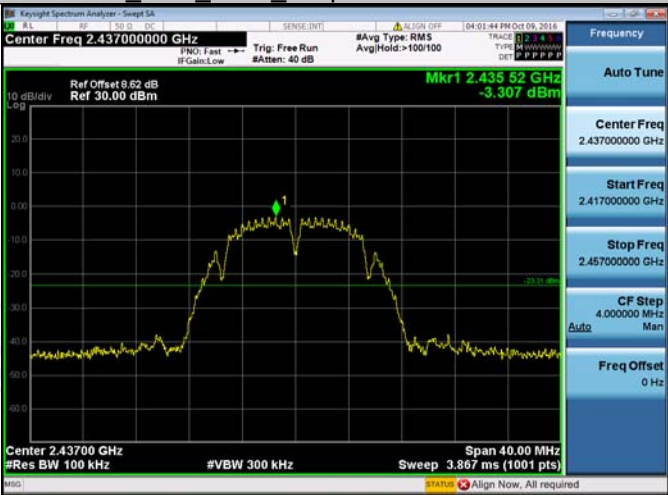
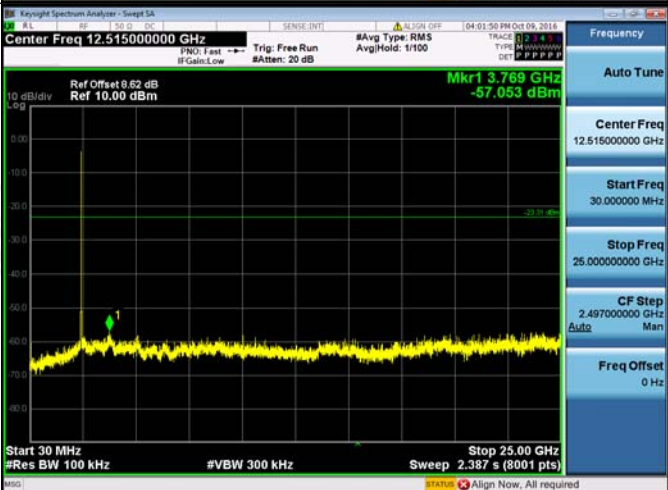
Mode	Antenna	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	Ant1	LCH	-3.863	<Limit	PASS
11B	Ant2	LCH	-3.797	<Limit	PASS
11B	Ant1	MCH	-3.004	<Limit	PASS
11B	Ant2	MCH	-3.307	<Limit	PASS
11B	Ant1	HCH	-3.913	<Limit	PASS
11B	Ant2	HCH	-3.626	<Limit	PASS
11G	Ant1	LCH	-9.067	<Limit	PASS
11G	Ant2	LCH	-9.391	<Limit	PASS
11G	Ant1	MCH	-9.206	<Limit	PASS
11G	Ant2	MCH	-9.239	<Limit	PASS
11G	Ant1	HCH	-9.09	<Limit	PASS
11G	Ant2	HCH	-9.758	<Limit	PASS
11N20SISO	Ant1	LCH	-9.65	<Limit	PASS
11N20SISO	Ant2	LCH	-9.681	<Limit	PASS
11N20SISO	Ant1	MCH	-9.888	<Limit	PASS
11N20SISO	Ant2	MCH	-9.954	<Limit	PASS
11N20SISO	Ant1	HCH	-10.106	<Limit	PASS
11N20SISO	Ant2	HCH	-9.92	<Limit	PASS
11N20MIMO	Ant1	LCH	-11.197	<Limit	PASS
11N20MIMO	Ant2	LCH	-10.242	<Limit	PASS
11N20MIMO	Ant1	MCH	-10.614	<Limit	PASS
11N20MIMO	Ant2	MCH	-10.209	<Limit	PASS
11N20MIMO	Ant1	HCH	-10.379	<Limit	PASS
11N20MIMO	Ant2	HCH	-10.883	<Limit	PASS
11N40SISO	Ant1	LCH	-13.113	<Limit	PASS
11N40SISO	Ant2	LCH	-13.239	<Limit	PASS
11N40SISO	Ant1	MCH	-12.929	<Limit	PASS
11N40SISO	Ant2	MCH	-13.571	<Limit	PASS
11N40SISO	Ant1	HCH	-13.469	<Limit	PASS
11N40SISO	Ant2	HCH	-13.23	<Limit	PASS
11N40MIMO	Ant1	LCH	-13.599	<Limit	PASS
11N40MIMO	Ant2	LCH	-13.25	<Limit	PASS
11N40MIMO	Ant1	MCH	-13.298	<Limit	PASS
11N40MIMO	Ant2	MCH	-12.914	<Limit	PASS
11N40MIMO	Ant1	HCH	-13.379	<Limit	PASS
11N40MIMO	Ant2	HCH	-12.626	<Limit	PASS

Test Graph



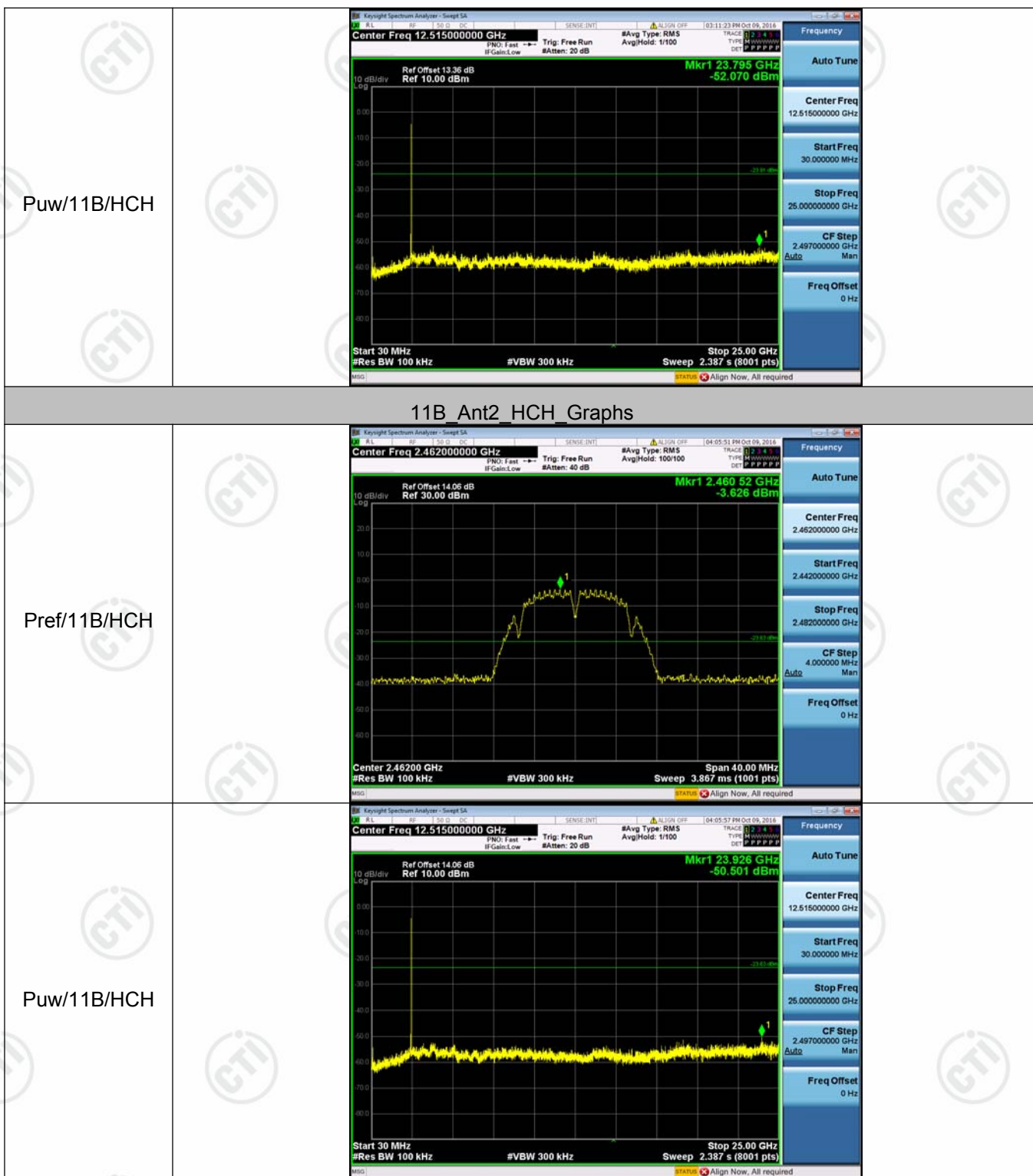


11B_Ant2_MCH_Graphs

Pref/11B/MCH	
Puw/11B/MCH	

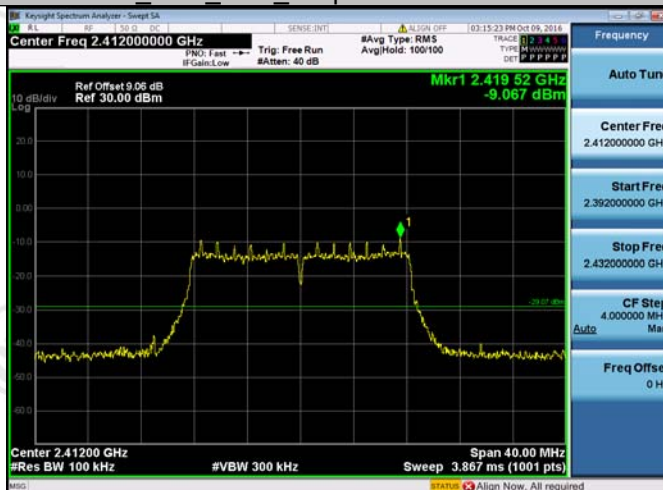
11B_Ant1_HCH_Graphs

Pref/11B/HCH	
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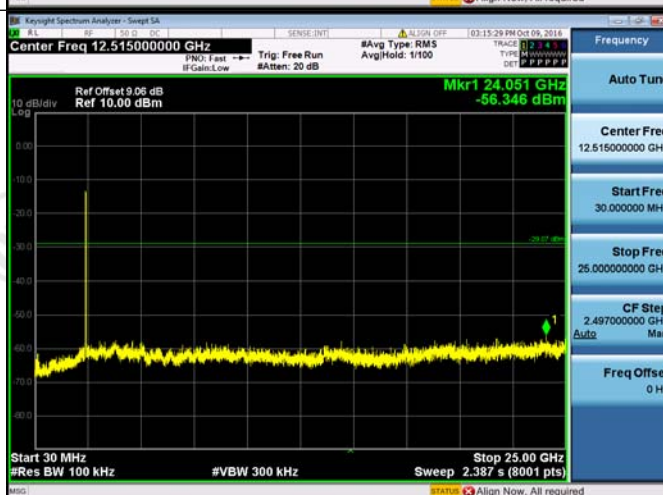


11G_Ant1_LCH_Graphs

Pref/11G/LCH



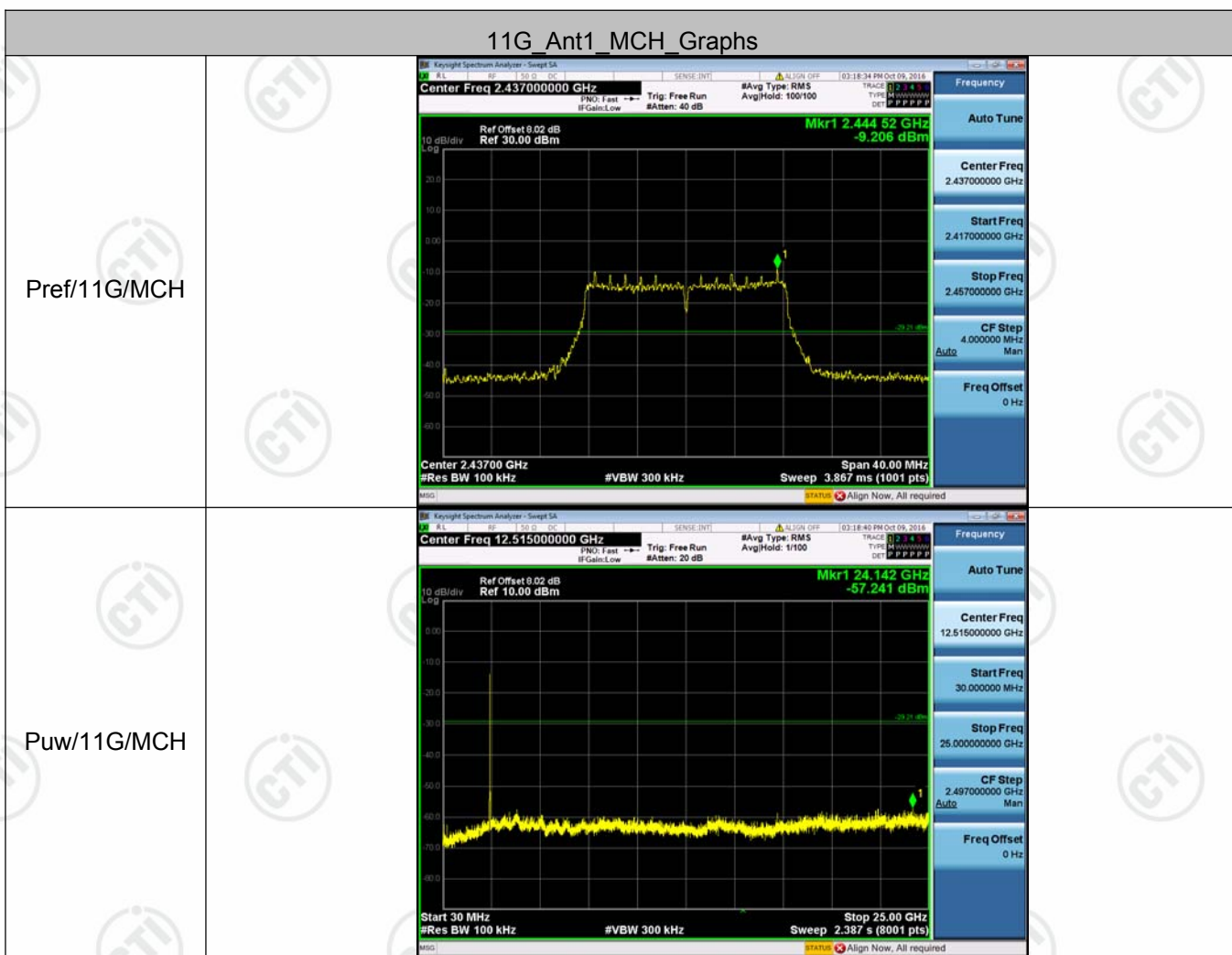
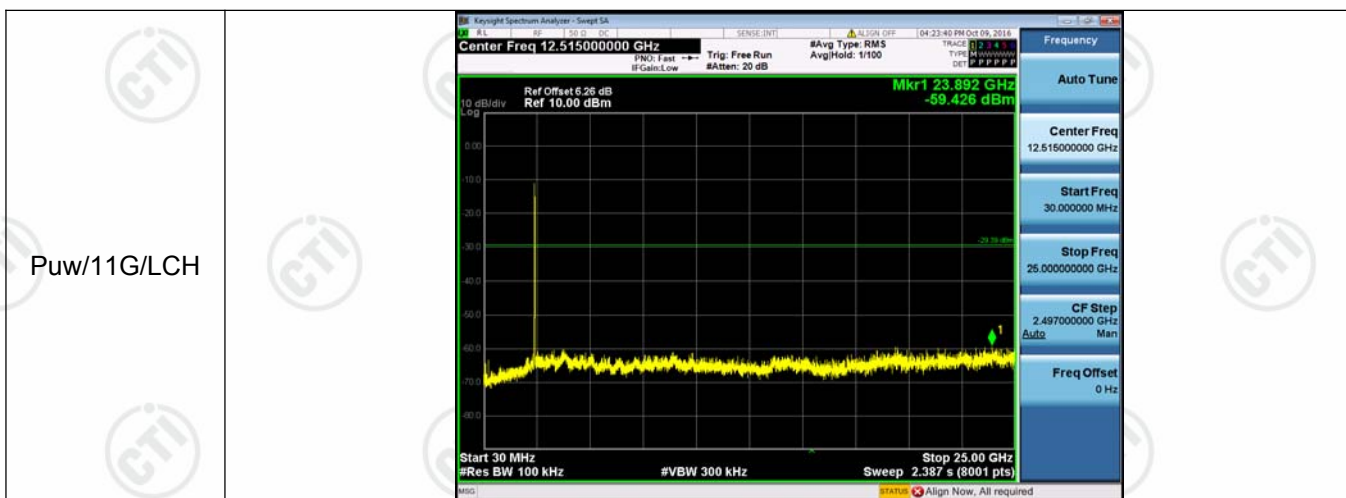
Puw/11G/LCH



11G_Ant2_LCH_Graphs

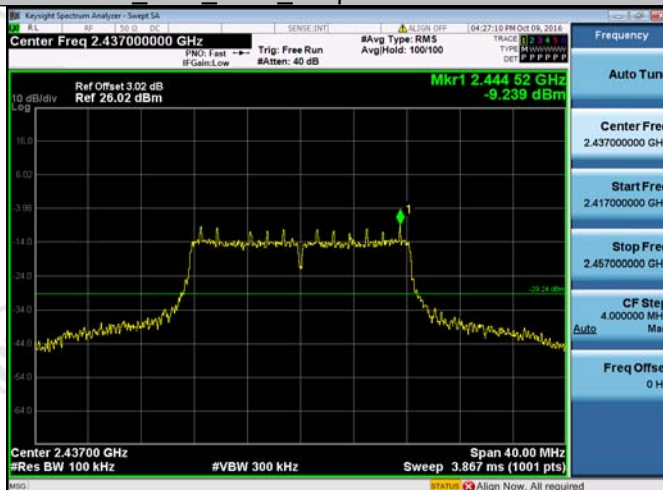
Pref/11G/LCH



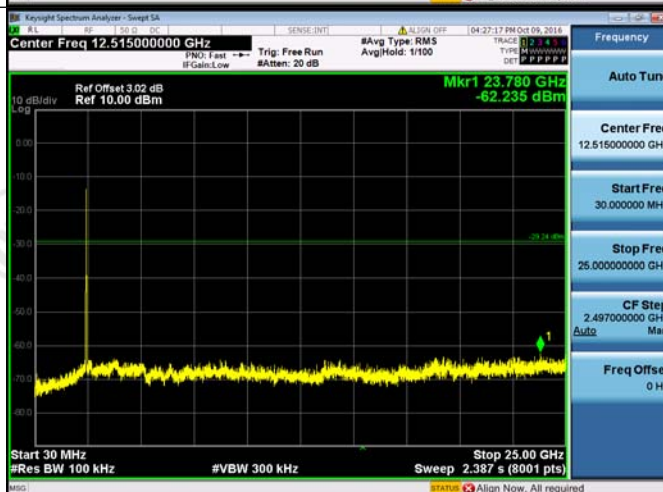


11G_Ant2_MCH_Graphs

Pref/11G/MCH

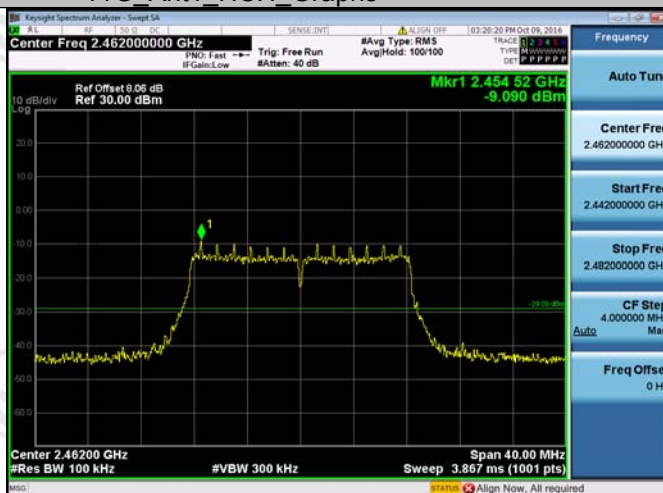


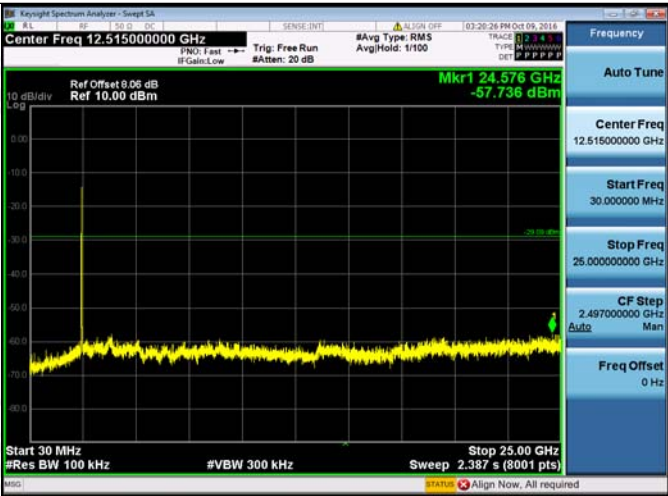
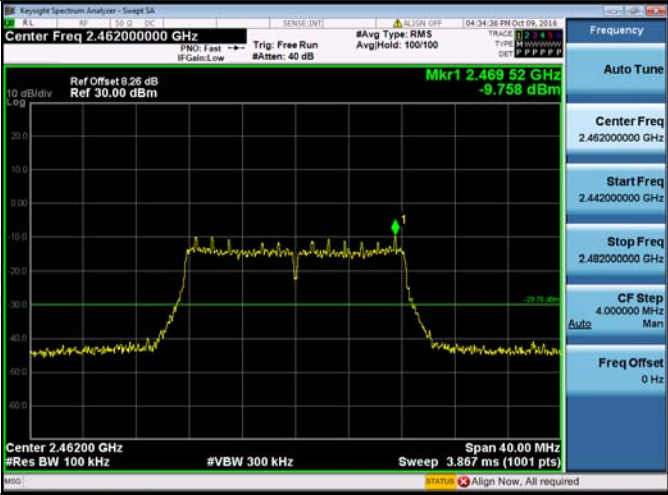
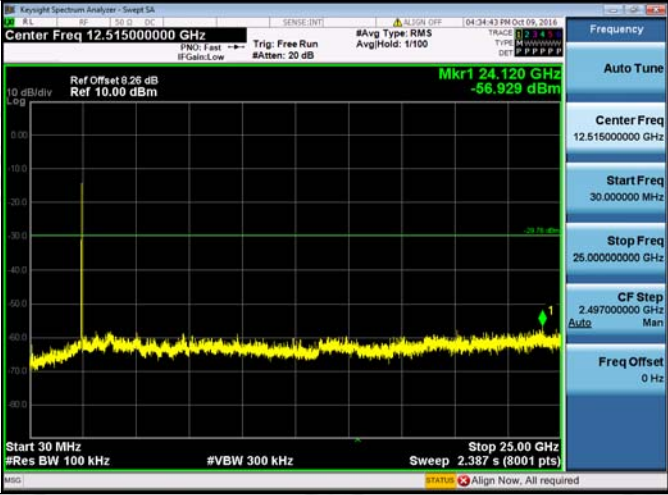
Puw/11G/MCH



11G_Ant1_HCH_Graphs

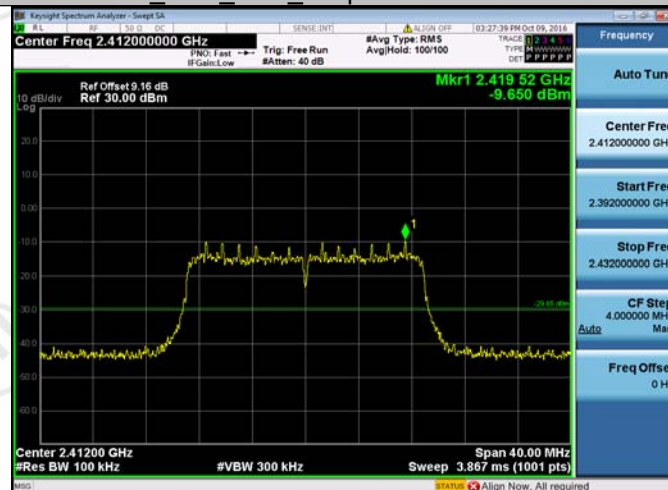
Pref/11G/HCH



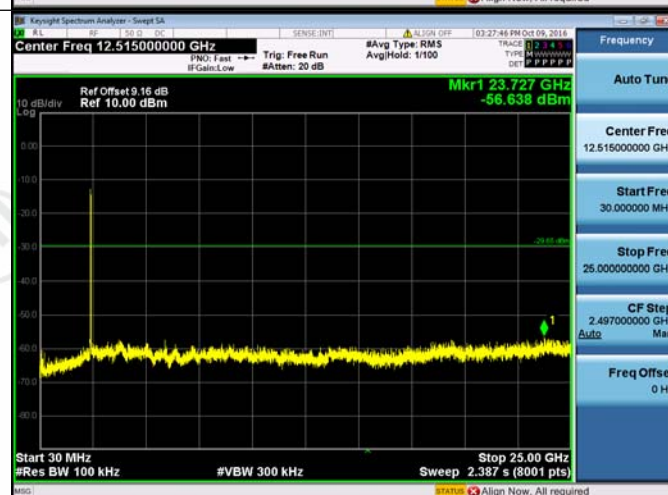
Puw/11G/HCH	
11G_Ant2_HCH_Graphs	
Pref/11G/HCH	
Puw/11G/HCH	

11N20SISO_Ant1_LCH_Graphs

Pref/11N20SISO/LCH

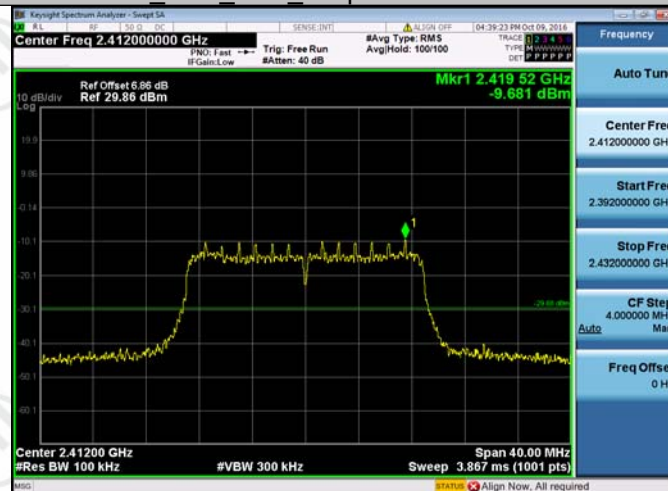


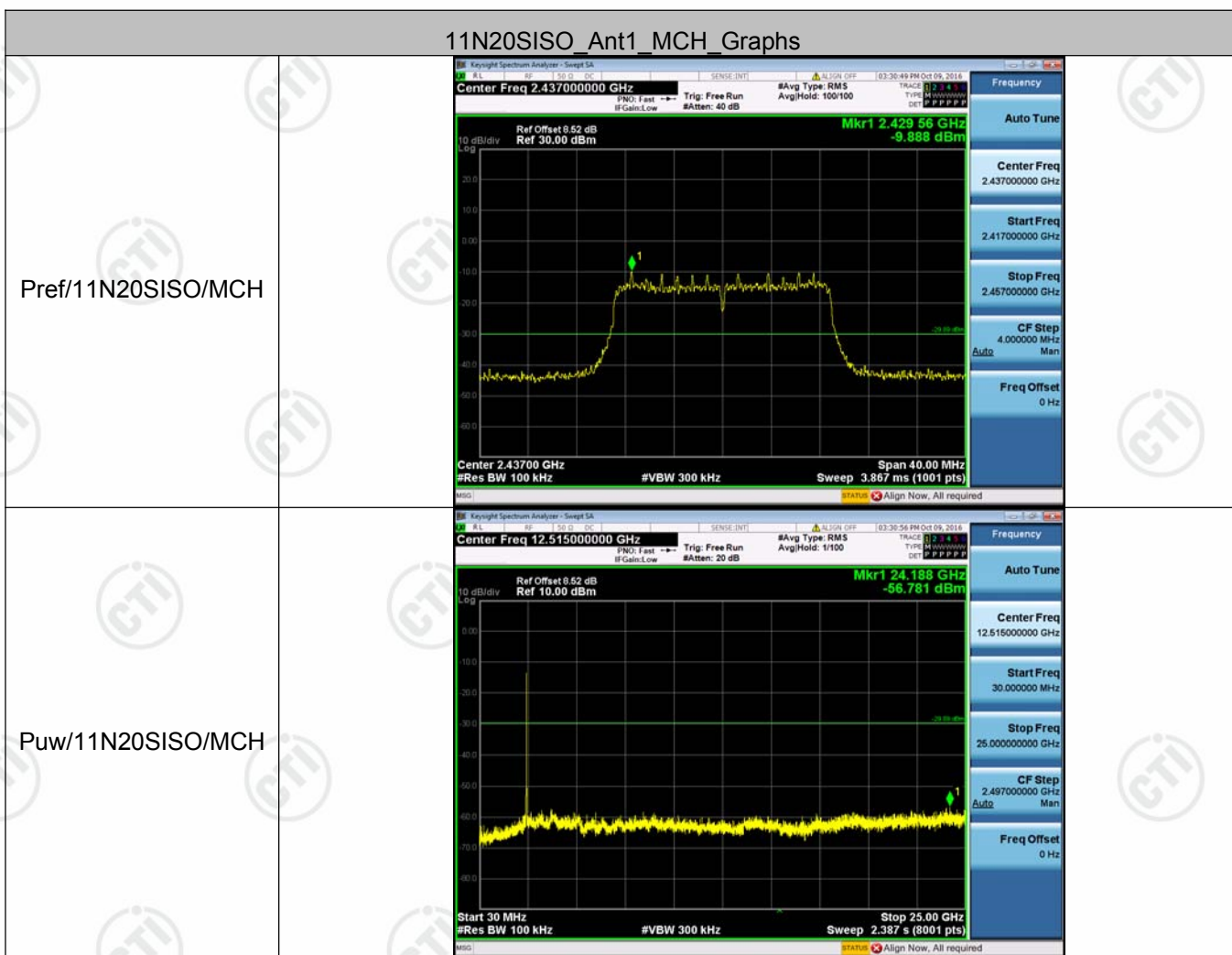
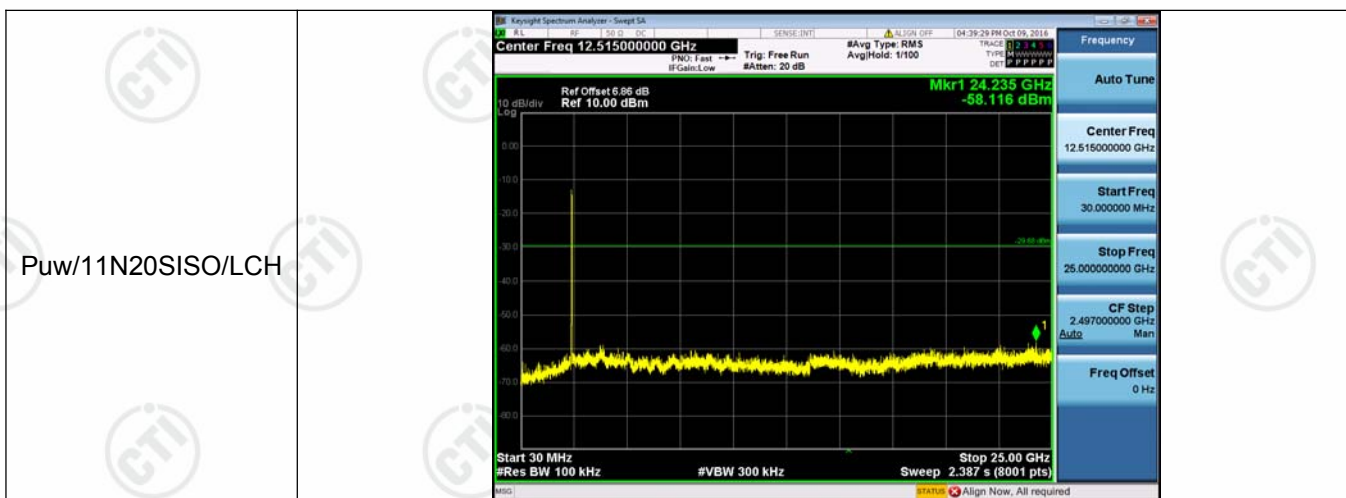
Puw/11N20SISO/LCH



11N20SISO_Ant2_LCH_Graphs

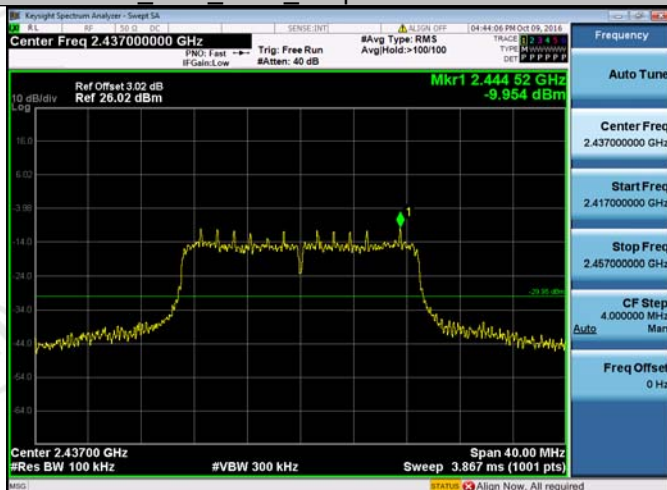
Pref/11N20SISO/LCH



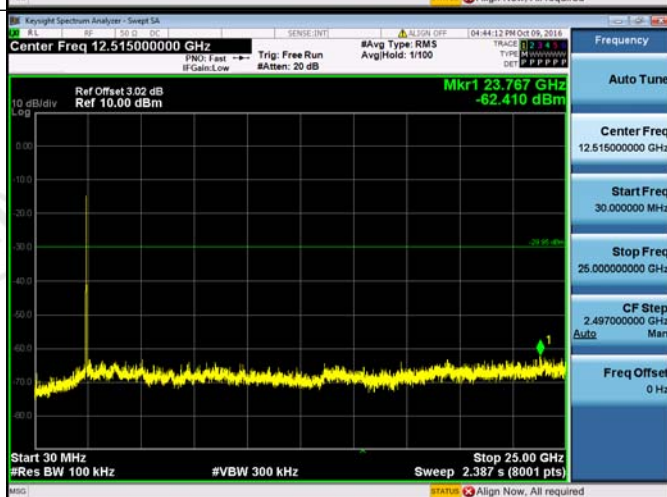


11N20SISO_Ant2_MCH_Graphs

Pref/11N20SISO/MCH

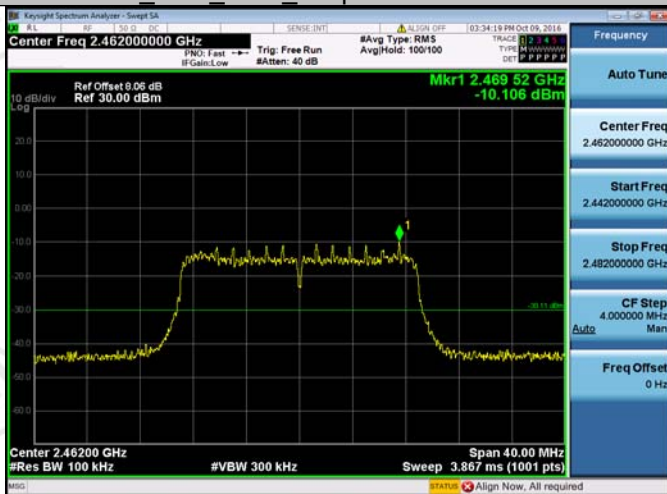


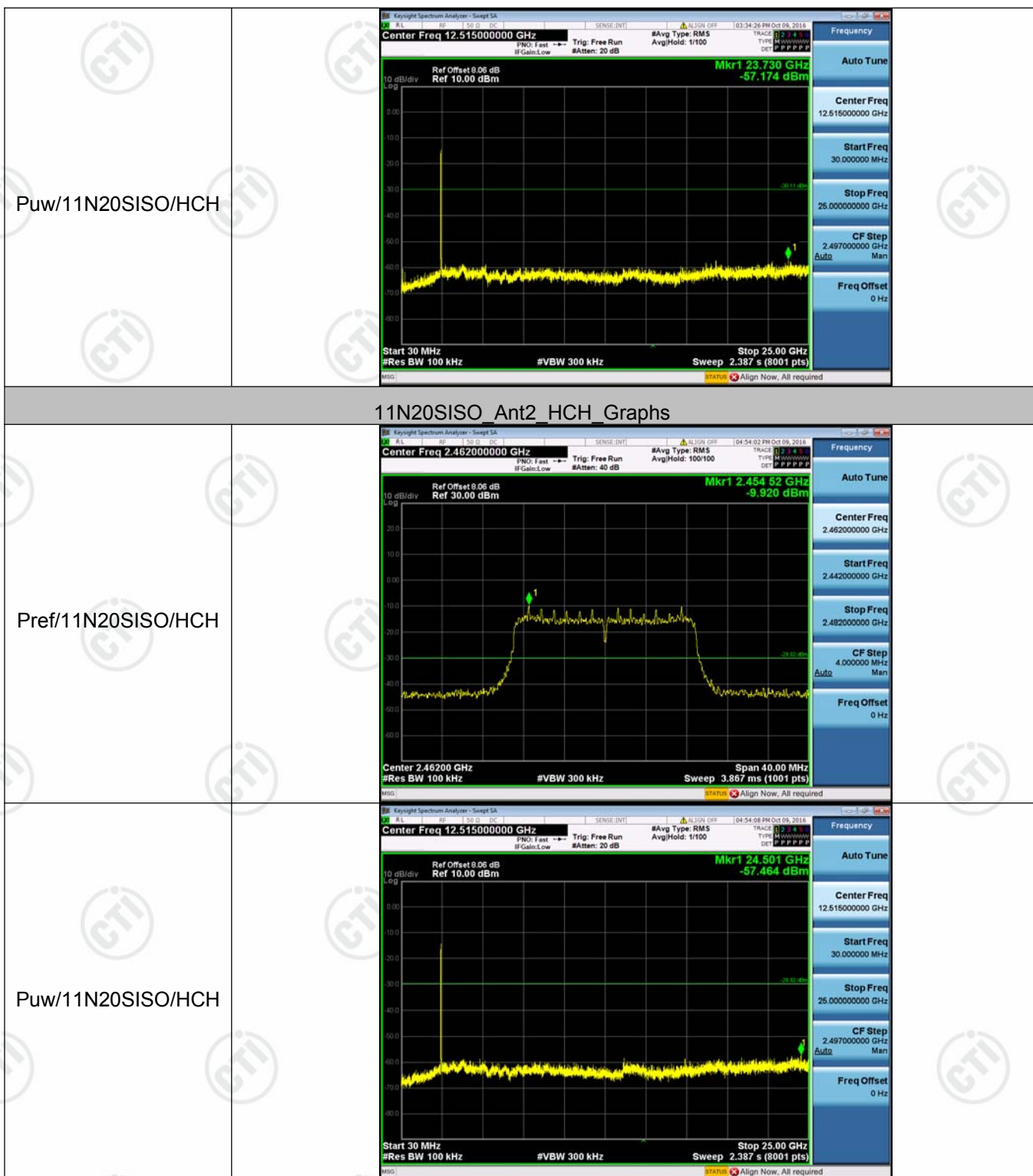
Puw/11N20SISO/MCH



11N20SISO_Ant1_HCH_Graphs

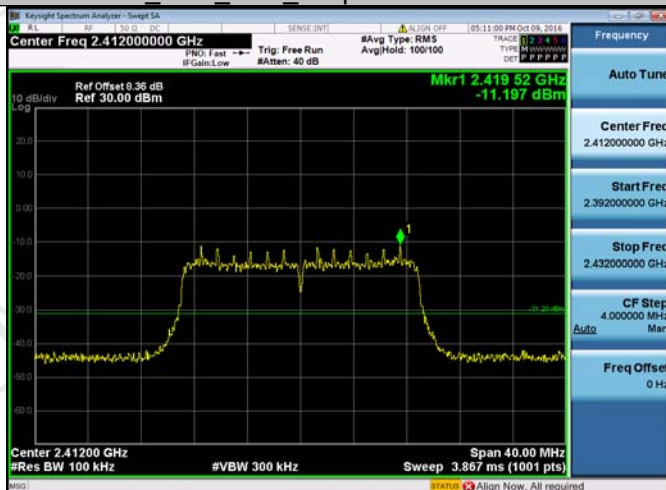
Pref/11N20SISO/HCH



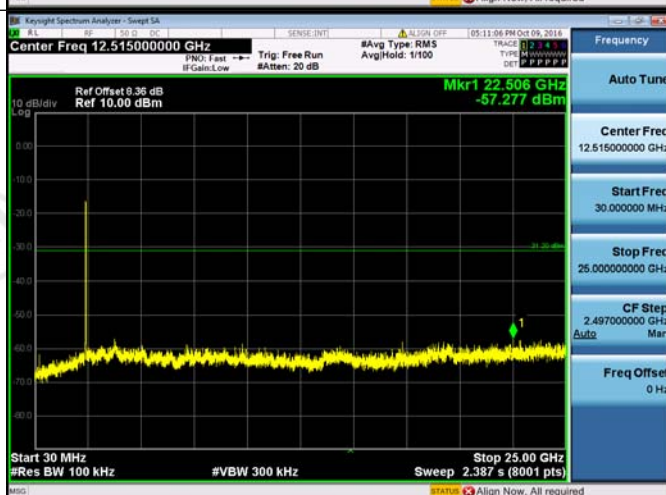


11N20MIMO_Ant1_LCH_Graphs

Pref/11N20MIMO/LCH

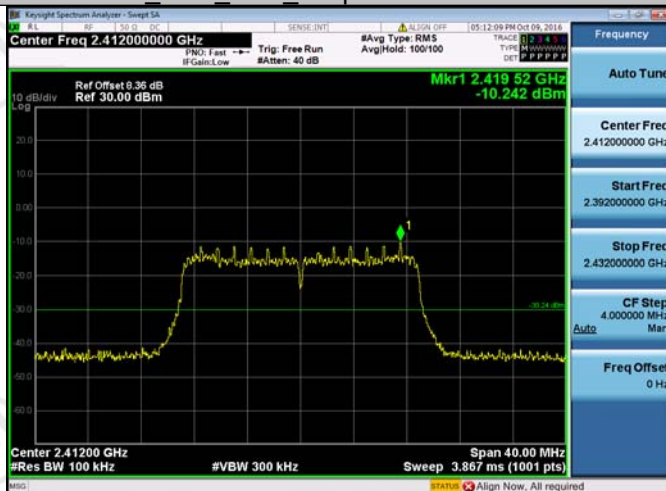


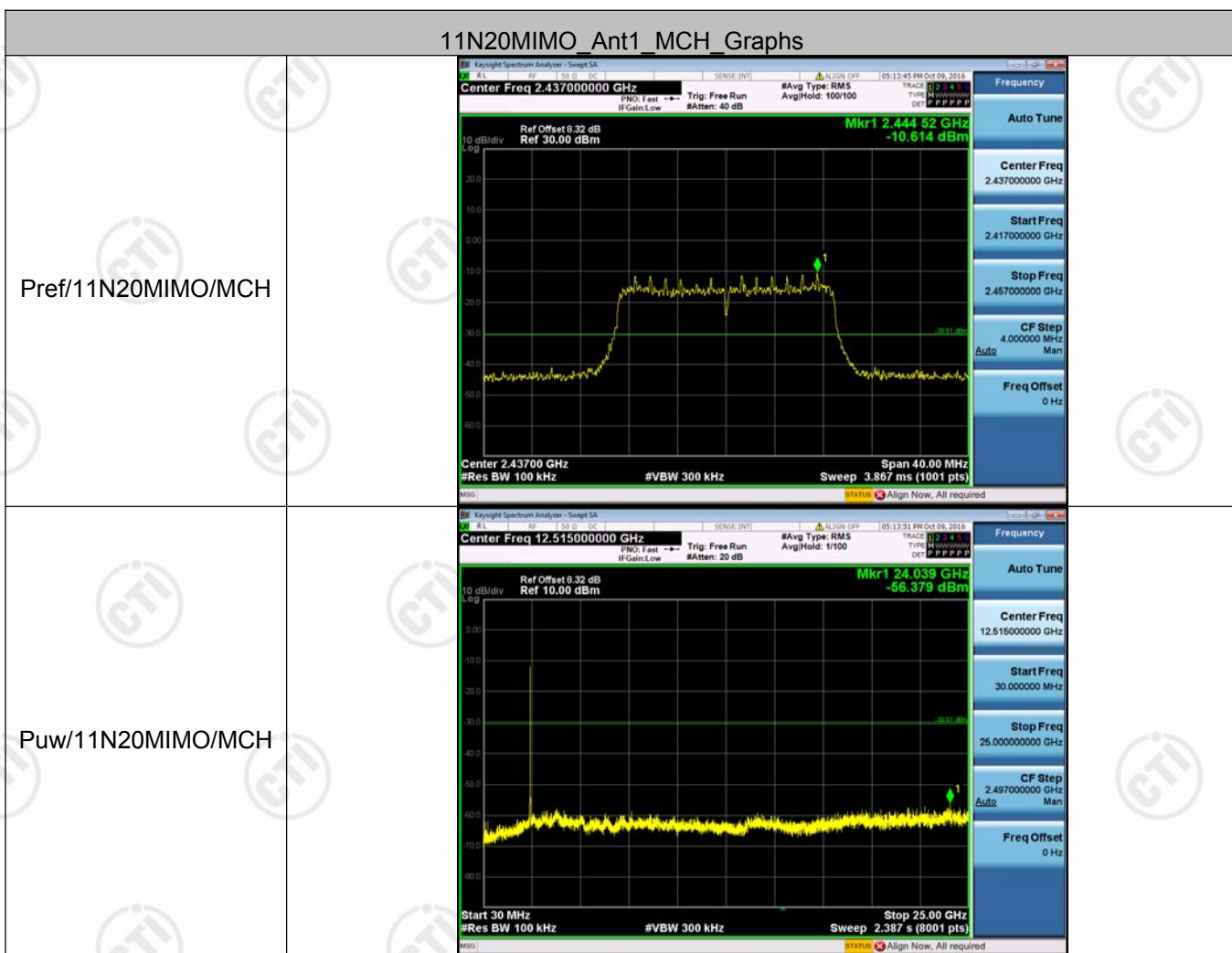
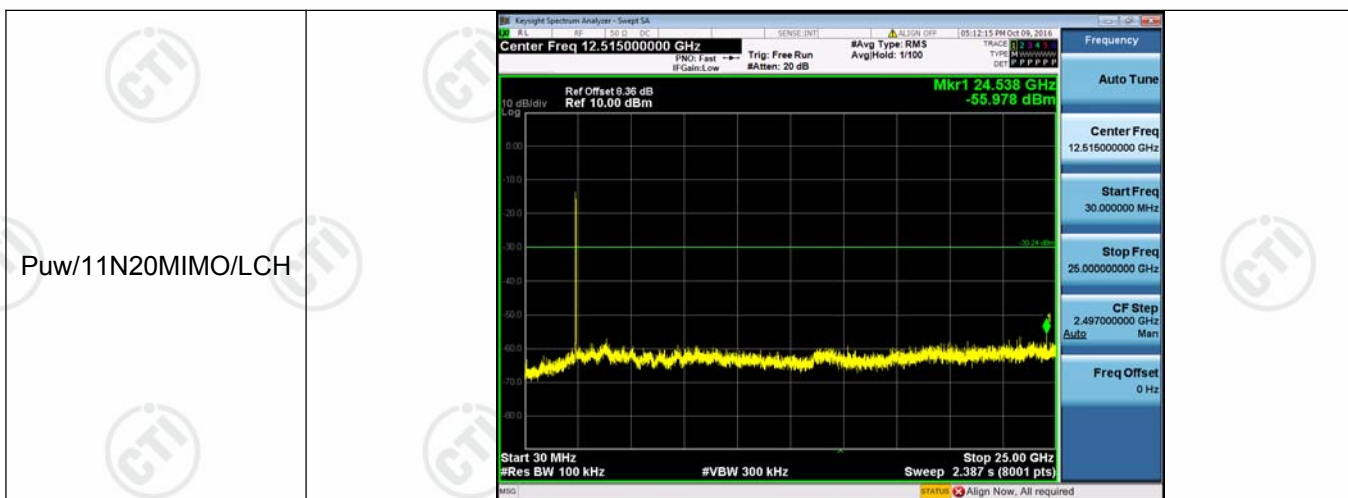
Puw/11N20MIMO/LCH



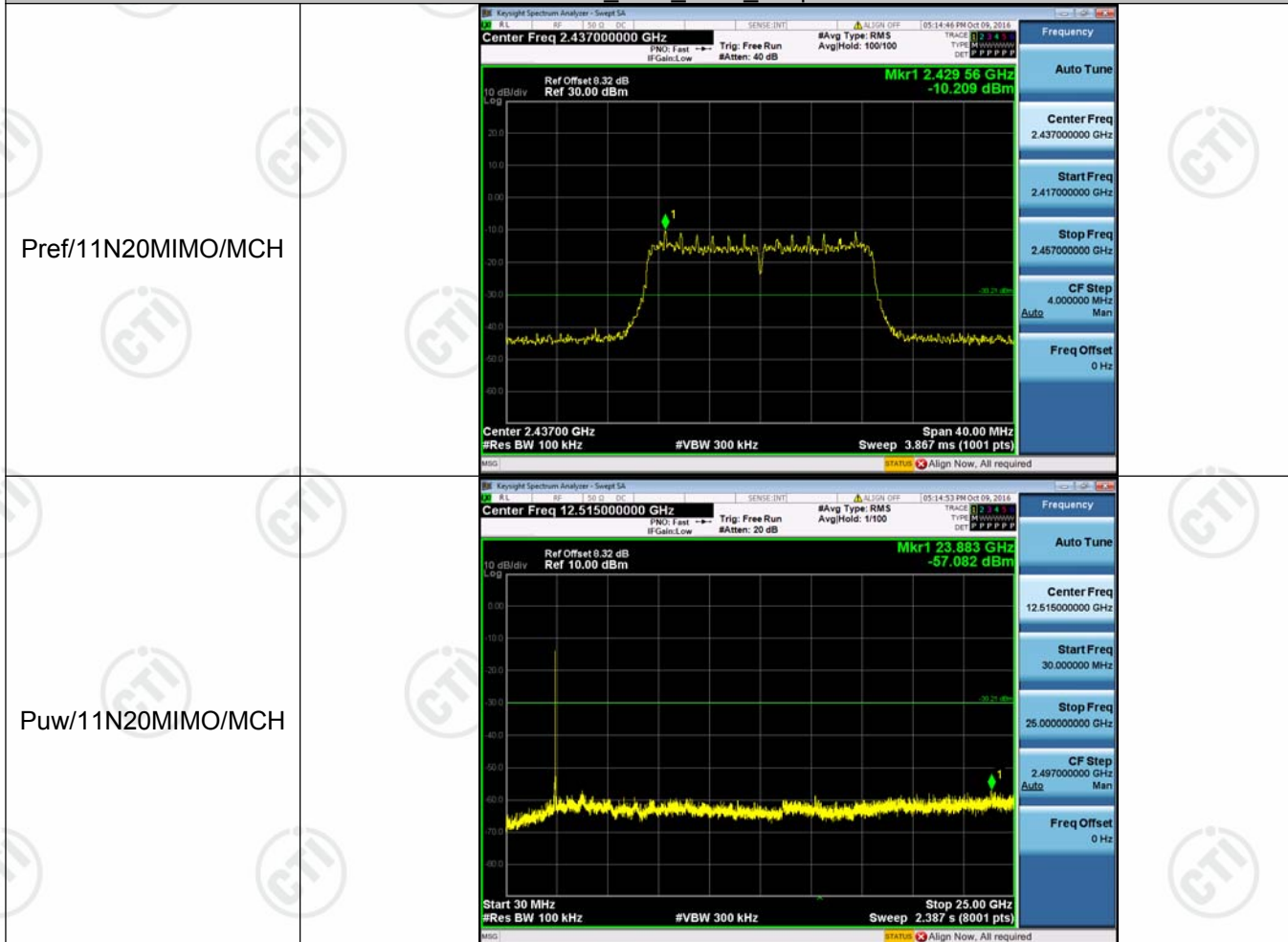
11N20MIMO_Ant2_LCH_Graphs

Pref/11N20MIMO/LCH



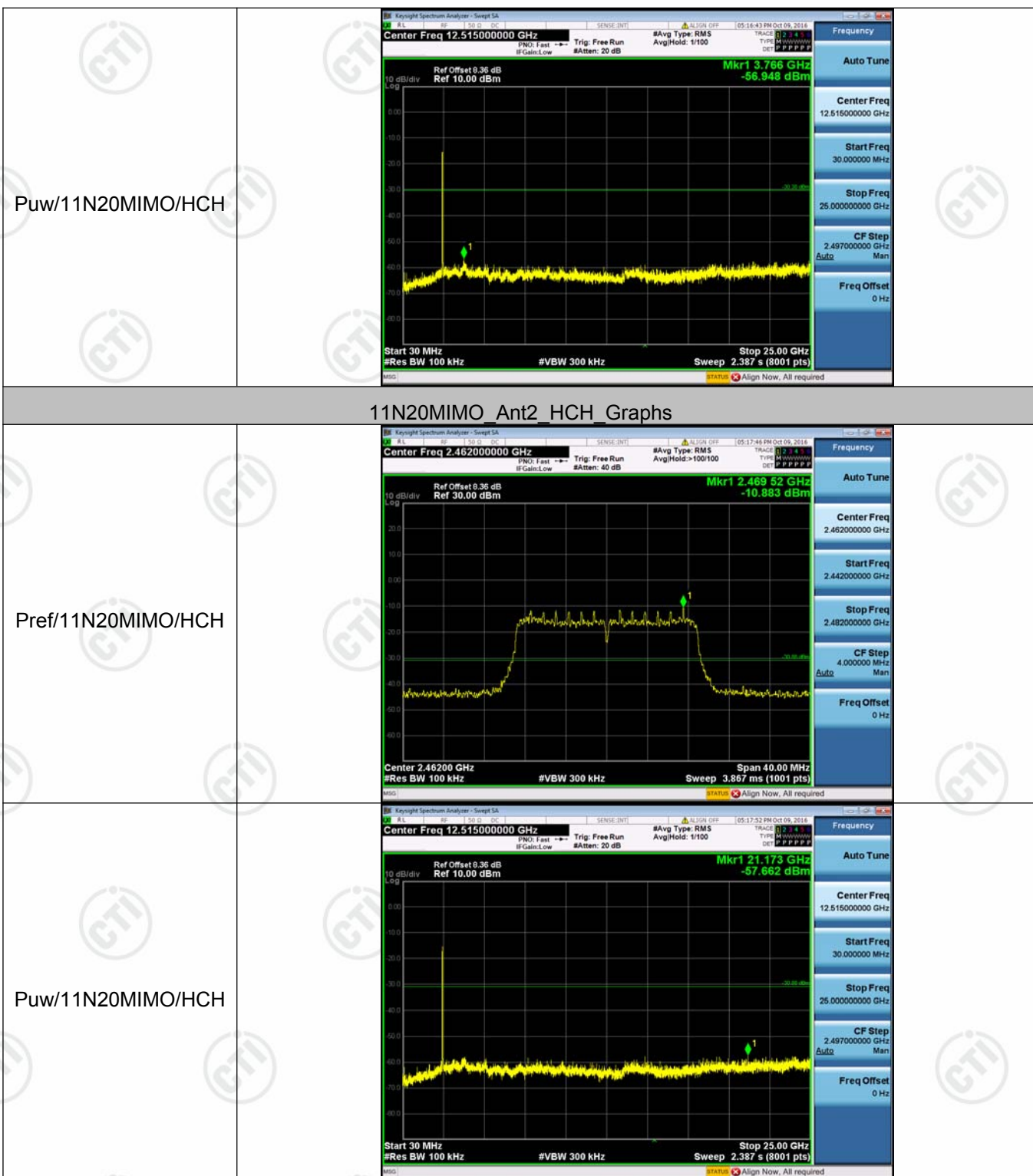


11N20MIMO_Ant2_MCH_Graphs



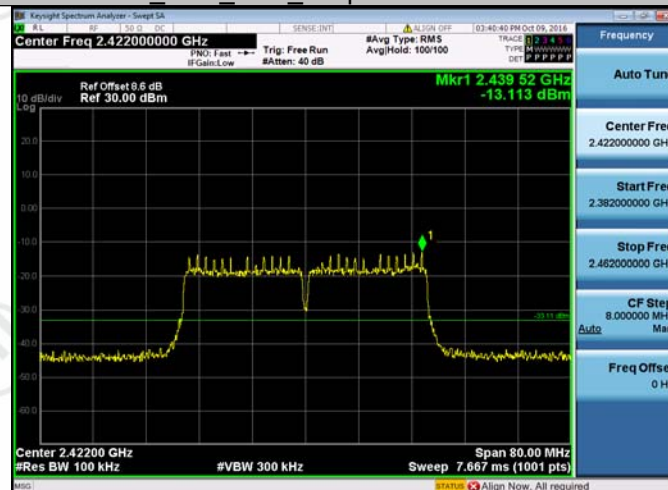
11N20MIMO_Ant1_HCH_Graphs



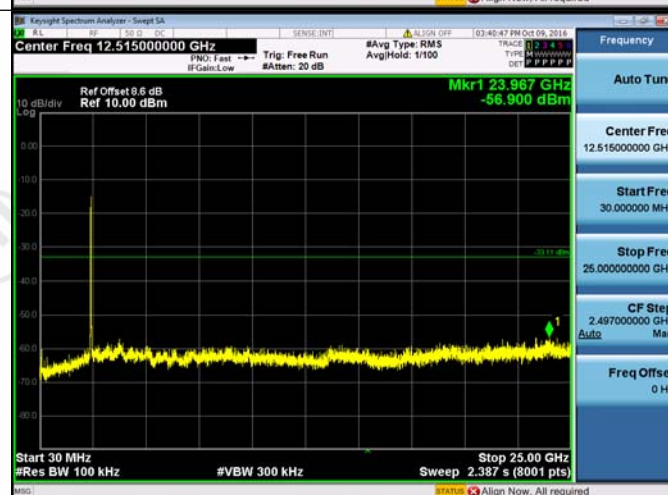


11N40SISO_Ant1_LCH_Graphs

Pref/11N40SISO/LCH

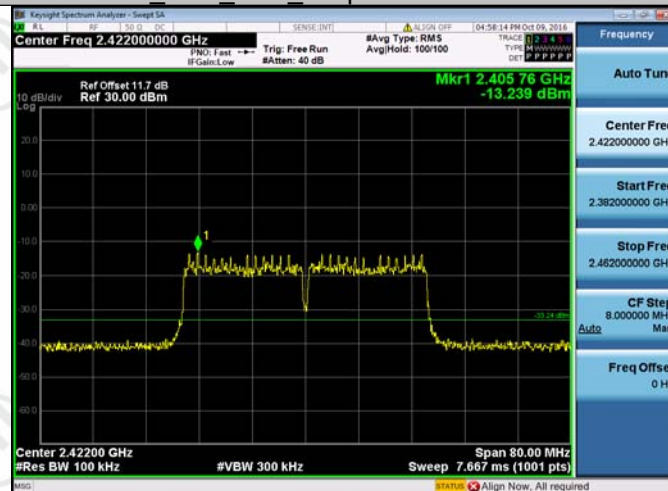


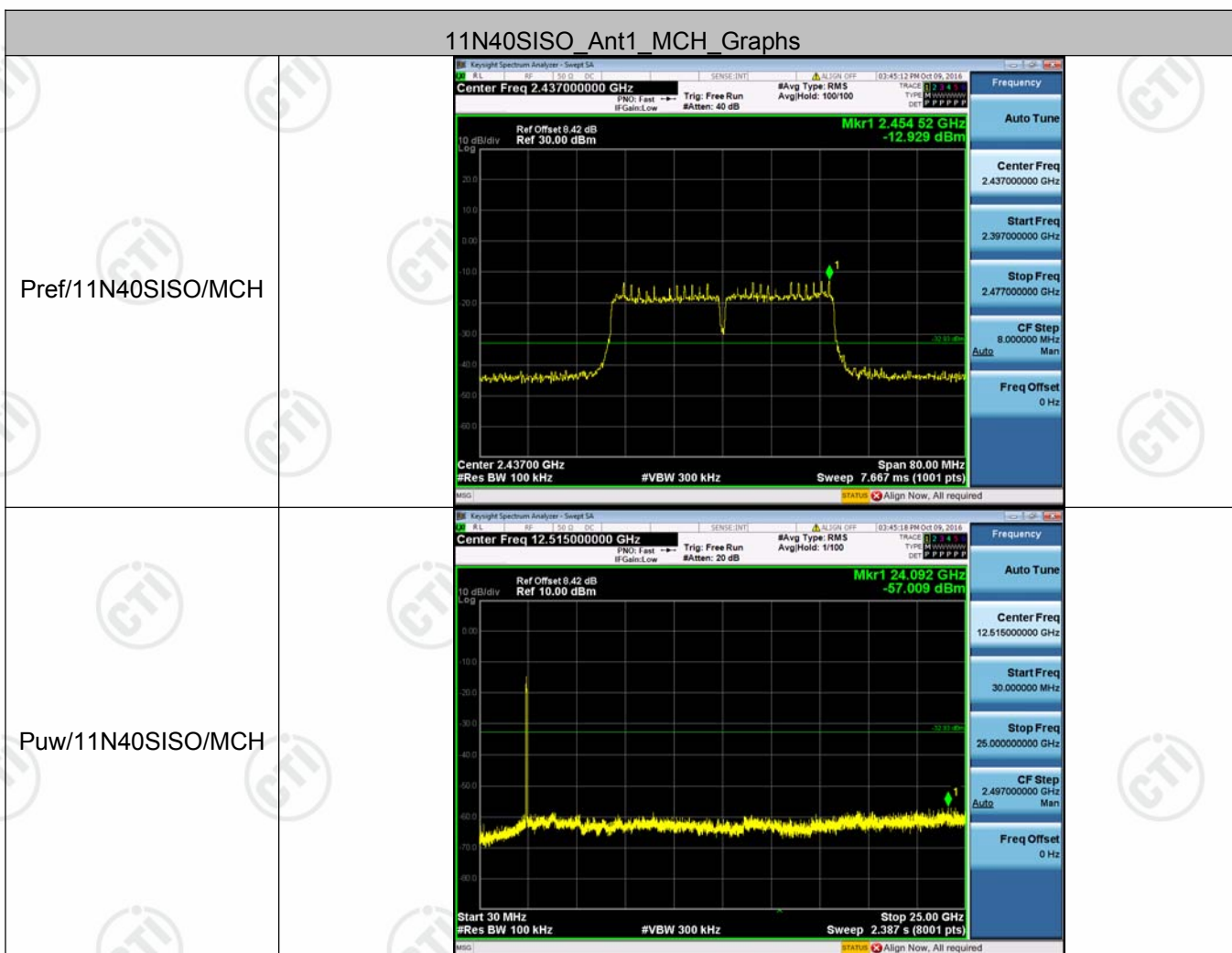
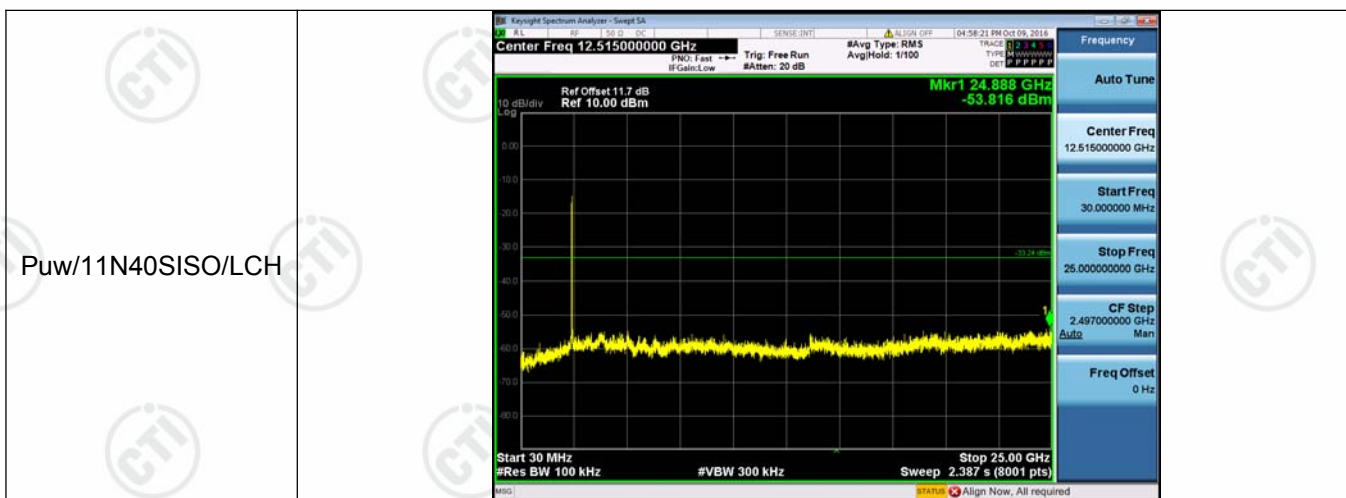
Puw/11N40SISO/LCH



11N40SISO_Ant2_LCH_Graphs

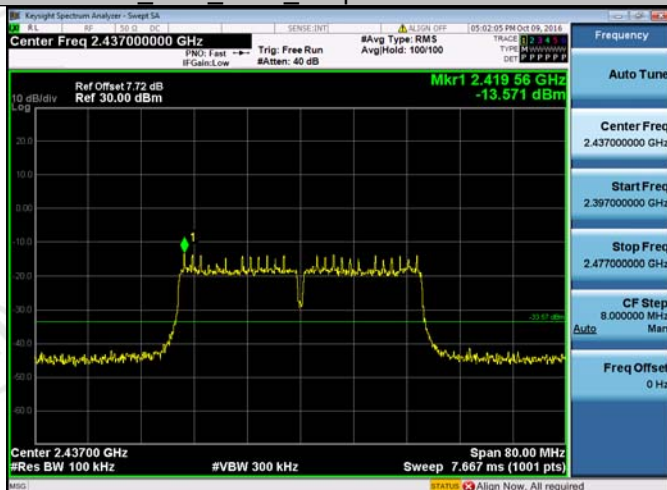
Pref/11N40SISO/LCH



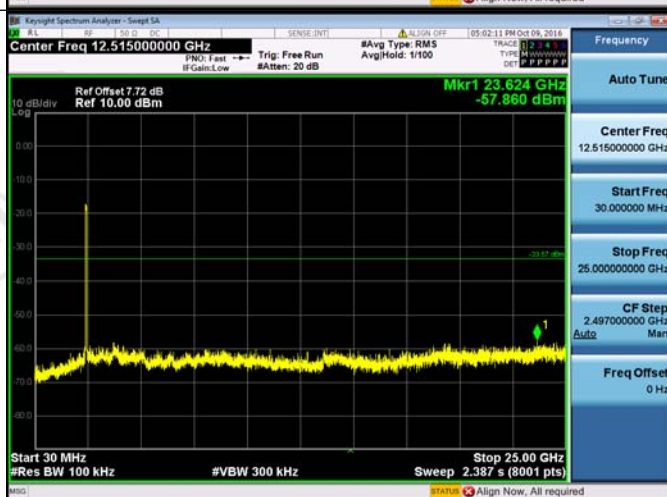


11N40SISO_Ant2_MCH_Graphs

Pref/11N40SISO/MCH

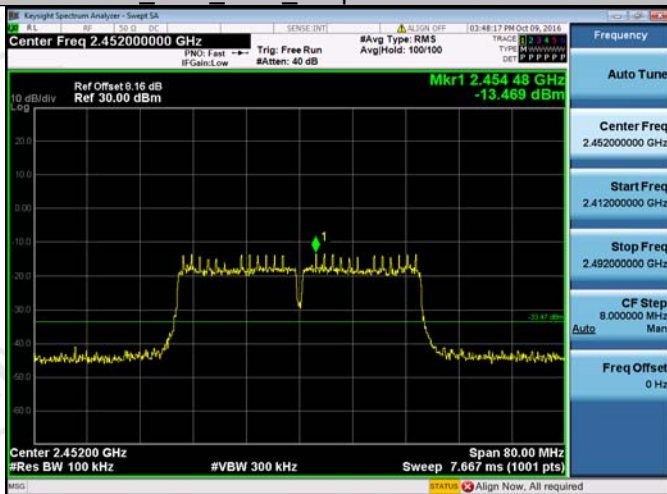


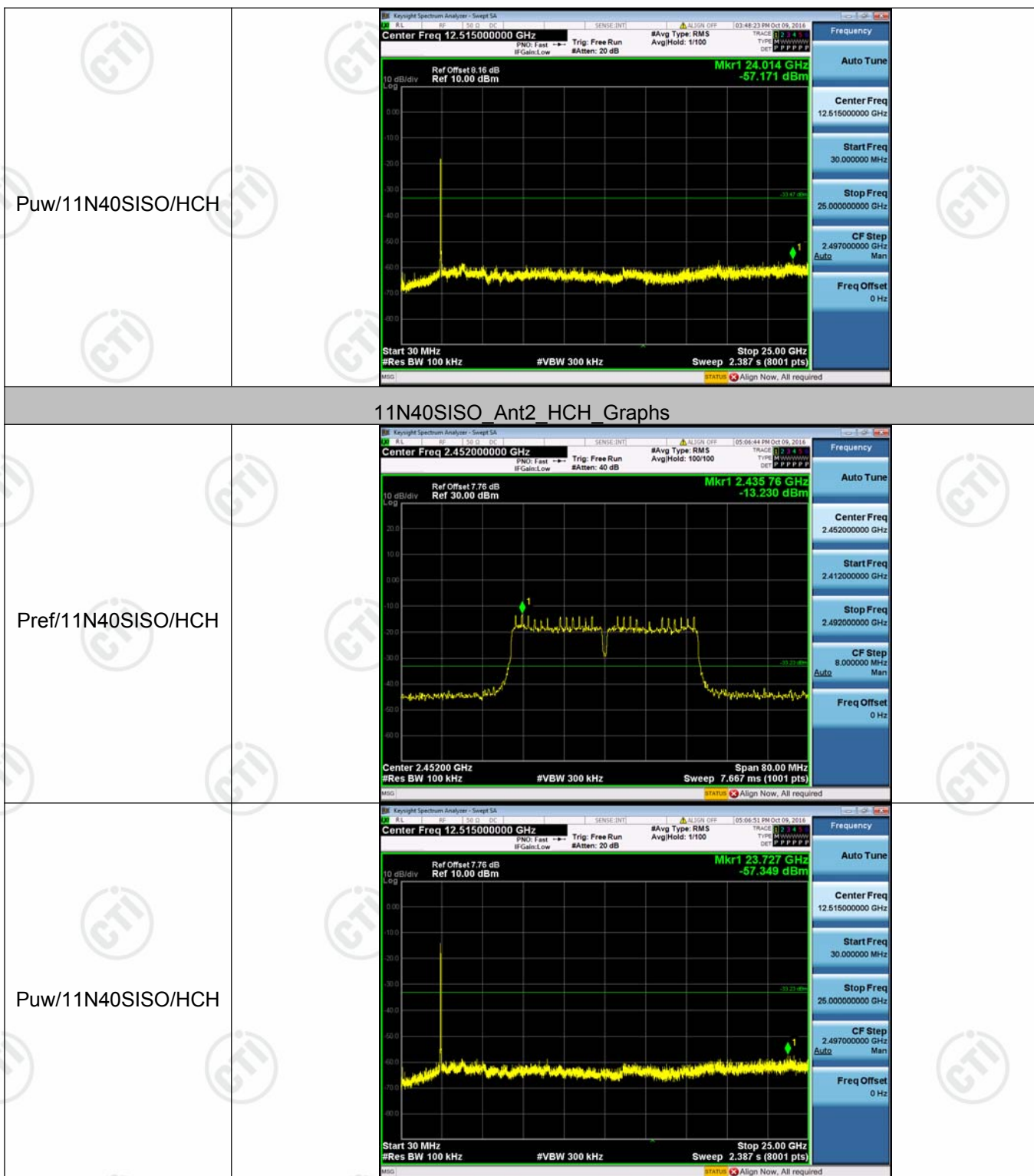
Puw/11N40SISO/MCH



11N40SISO_Ant1_HCH_Graphs

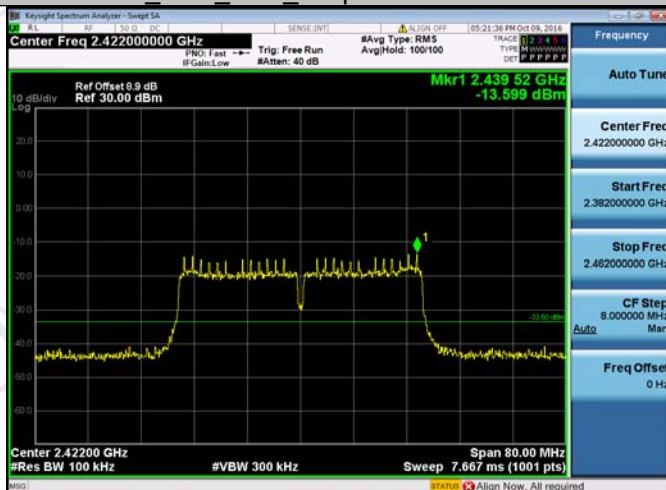
Pref/11N40SISO/HCH



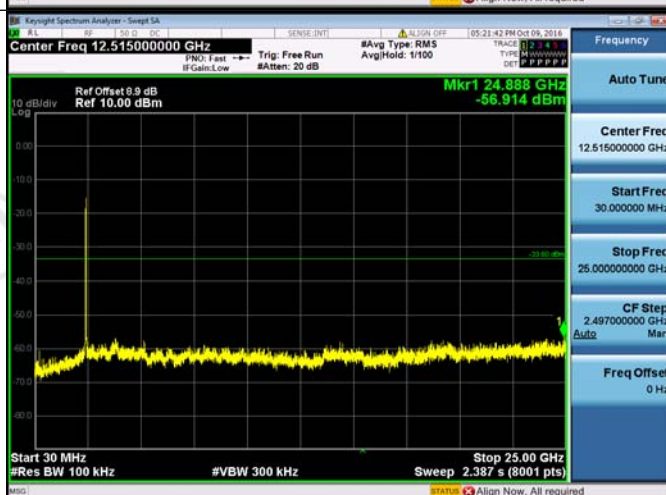


11N40MIMO_Ant1_LCH_Graphs

Pref/11N40MIMO/LCH

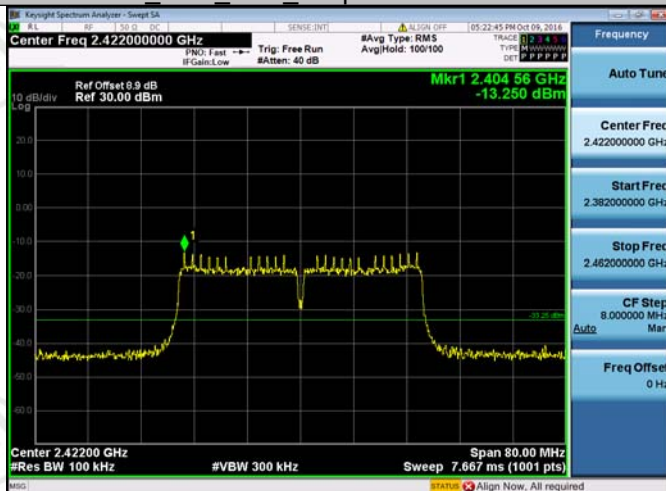


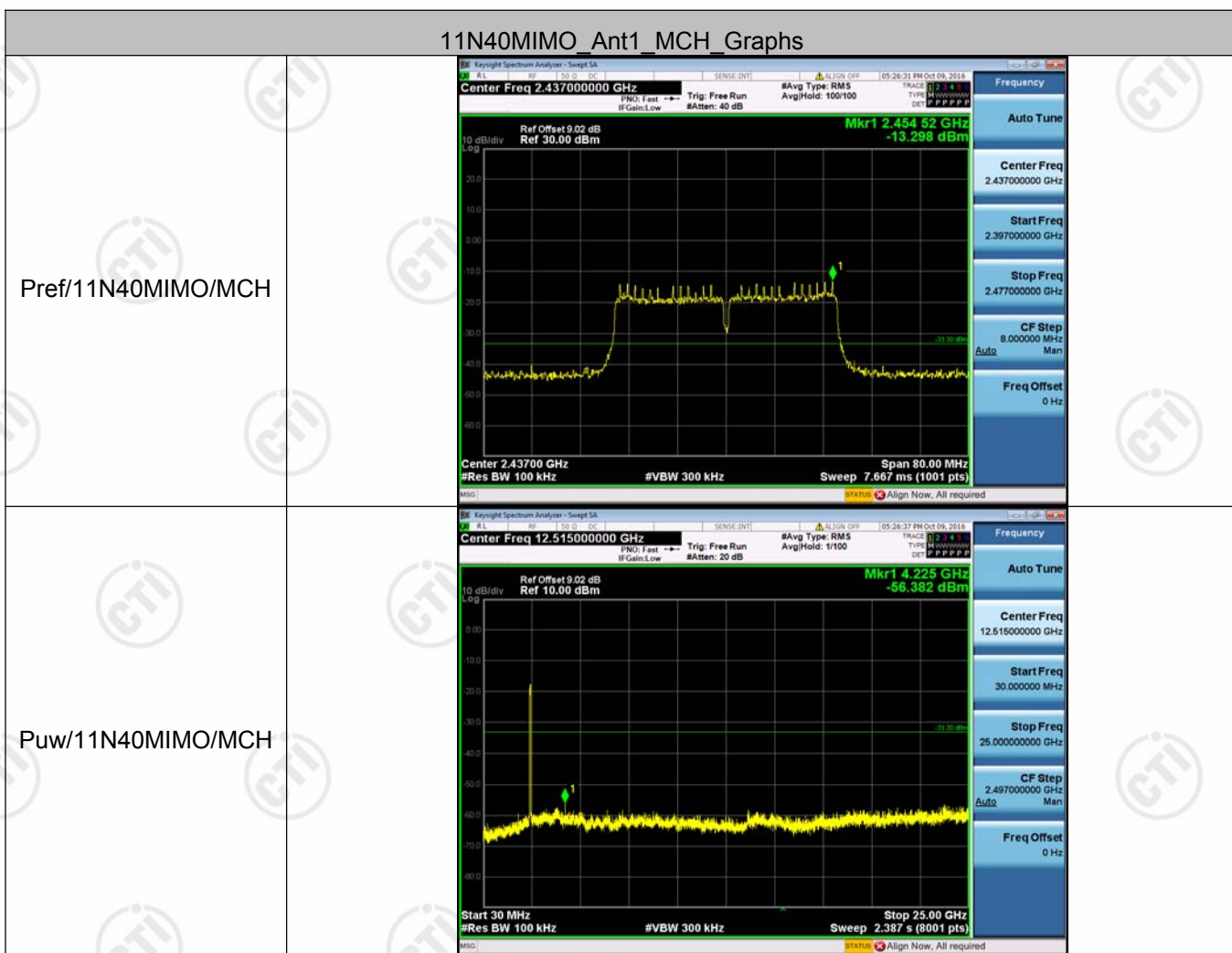
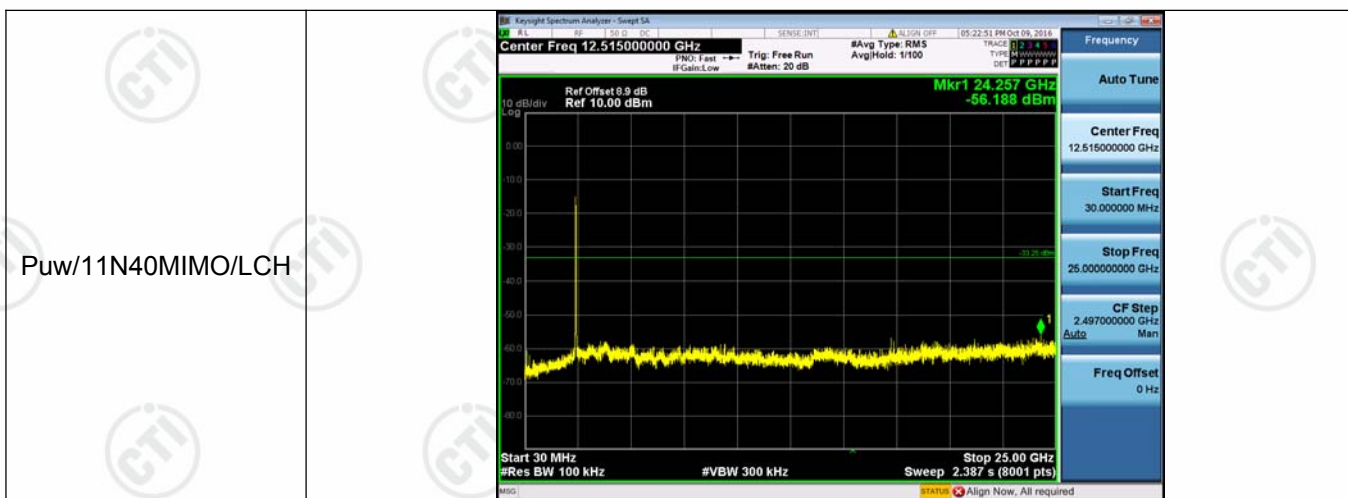
Puw/11N40MIMO/LCH



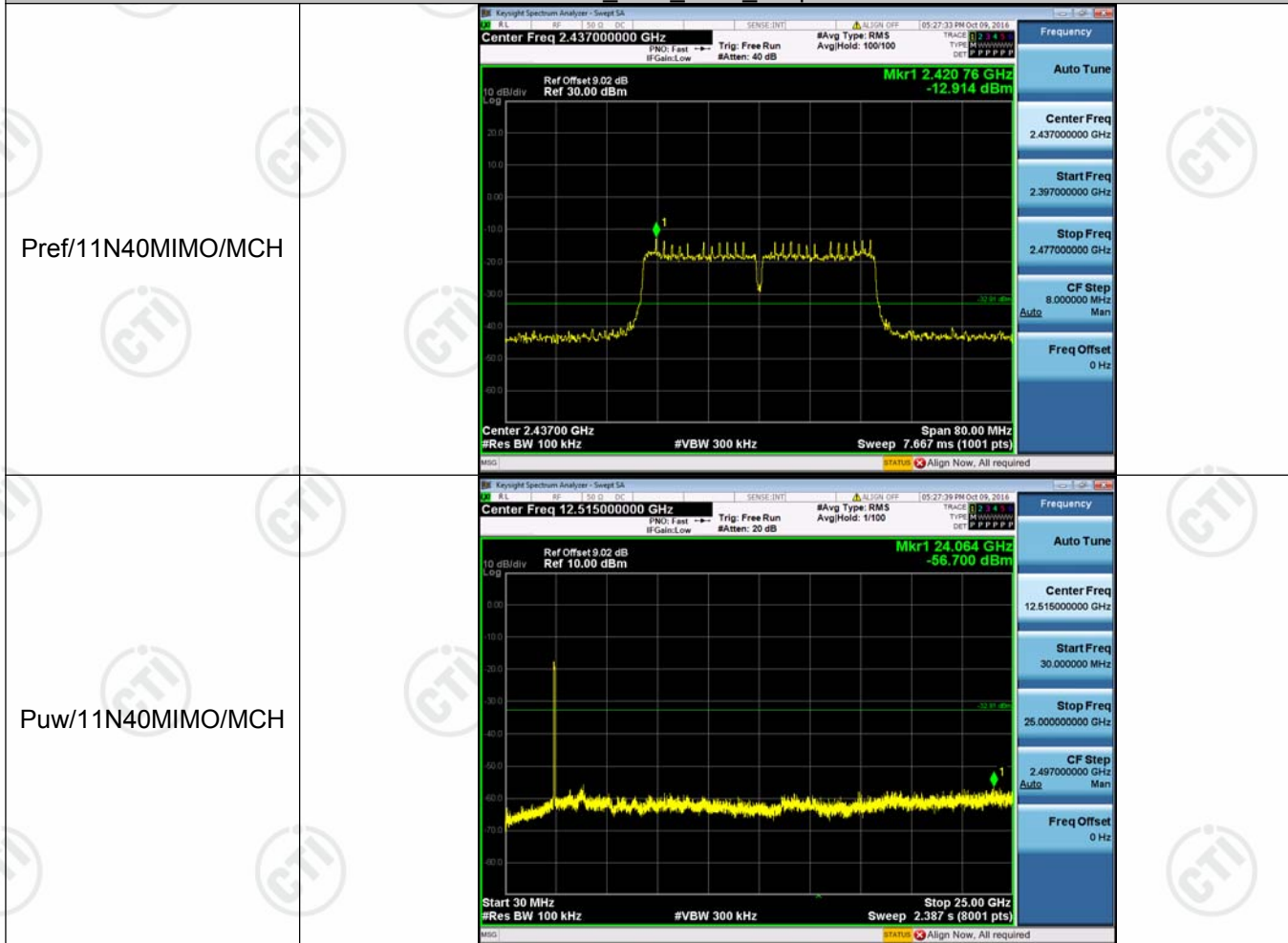
11N40MIMO_Ant2_LCH_Graphs

Pref/11N40MIMO/LCH

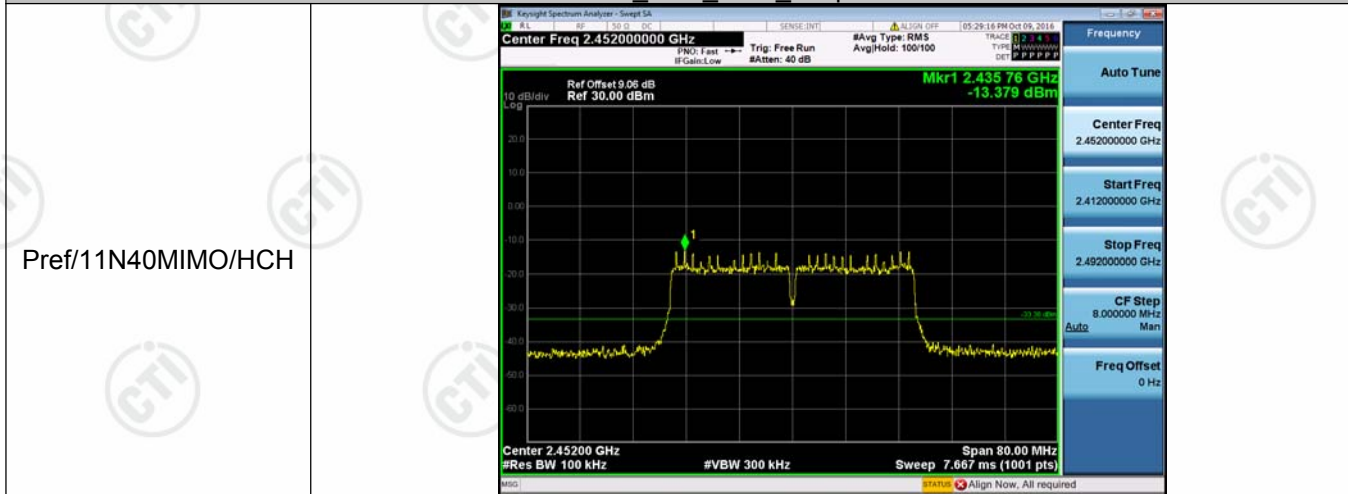


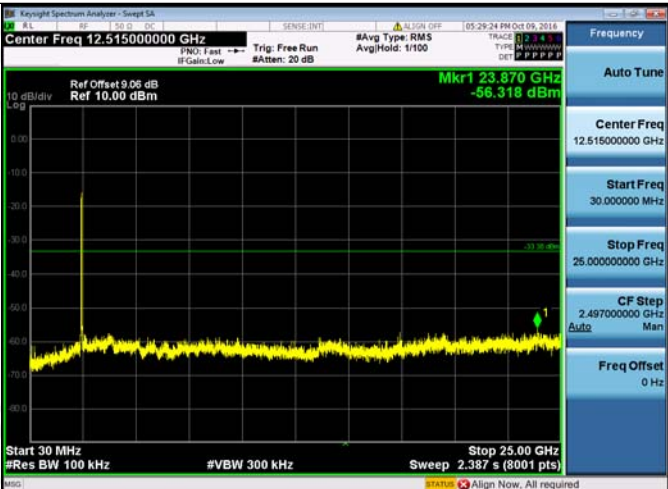
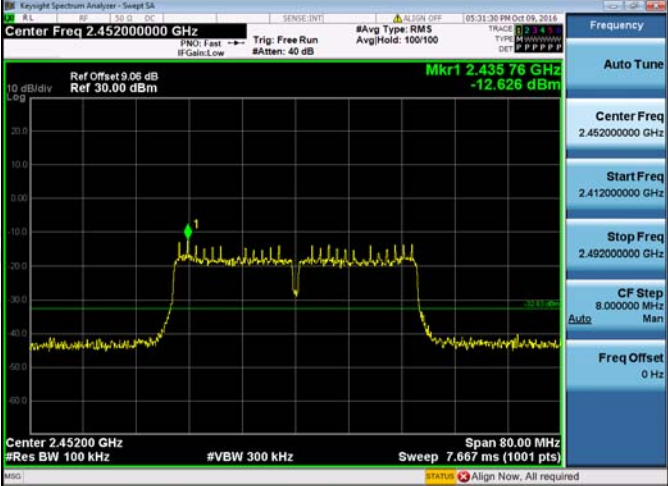


11N40MIMO_Ant2_MCH_Graphs



11N40MIMO_Ant1_HCH_Graphs



Puw/11N40MIMO/HCH	
11N40MIMO Ant2_HCH Graphs	
Pref/11N40MIMO/HCH	
Puw/11N40MIMO/HCH	