

TEST REPORT

Report No.: SHE20070010-02CE

Date: 2020-08-17

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Applicant : Shenzhen UniStrong Science & Technology Co.,Ltd.
Address of Applicant : B,4-4Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen, China

Product Name : Rugged windows Tablet

Model No. : UT55

Sample No. : E20070010-01#02

E20070010-01#05

FCC ID : 2AOPD-UT55

Standards : FCC CFR47 Part 15, Subpart C
RSS-Gen (Issue 5, March 2019)
RSS-247 (Issue 2, February 2017)

Date of Receipt : 2020-07-20

Date of Test : 2020-07-20 ~ 2020-08-13

Date of Issue : 2020-08-17

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2020-1-21	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shenzhen UniStrong Science & Technology Co.,Ltd.
Address	B,4-4Factory, Zhengcheng Road, Fuyong Baoan District, Shenzhen, China
Contact Person	Lili Zheng
Telephone	+86-21-54467182
Email	ll.zheng@unistrong.com

1.3 Details of EUT

Product Name	Rugged windows Tablet
Brand Name	Unistrong
Model No.	UT55
FCC ID	2AOPD-UT55
Network and Wireless connectivity	WLAN 802.11b/g/n(HT20/HT40)
Mode of Operation	WLAN 802.11b/g/n(HT20/HT40)
Frequency Range	2400MHz ~ 2483.5MHz
Channel Separation	5 MHz
Modulation Type	DSSS, OFDM
Antenna Type	Internal Antenna
Antenna1 Gain	0.94dBi
Antenna2 Gain	-0.68dBi
Extreme Temperature Range	-10℃~ +55℃
Test Voltage	DC 7.6V

Note(s):

The product has two chain for wifi chipset. Details please see clause 5.1.

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
KDB Publication 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Verdict

No.	FCC Part No.	ISED Part No.	Description	Test Result	Verdict
1	15.203	RSS-247, 5.4(6)	Antenna Requirement	Clause 4.1.1	PASS
2	15.247(b)	RSS-247, 5.4(4)	Peak Output Power	Clause 4.1.2	PASS
3	15.247(a)	RSS-Gen, 6.6; RSS-247, 5.2(1)	6dB Bandwidth and 99% Bandwidth	Clause 4.1.3	PASS
4	15.247(e)	RSS-247, 5.2(2)	Power Spectral Density	Clause 4.1.4	PASS
5	15.247(d), 15.209	RSS0Gen, 8.9; RSS-247, 5.5	Conducted Spurious Emission & Authorized-band band-edge	Clause 4.1.5	PASS
6	15.247(d), 15.205, 15.209	RSS-247, 5.5	Spurious Emission	Clause 4.1.6	PASS
7	15.247(d), 15.205, 15.209	RSS-247, 5.5	Band Edge (Restricted-band band-edge)	Clause 4.1.7	PASS
8	15.207(a)	RSS-Gen 8.8	Conducted Emission	Clause 4.2.1	PASS

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2 Test Condition

2.1 Test Facility

2.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.3 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2020-07-28
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2021-06-24
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2021-06-19
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2021-06-19
V-network	SCHWARZBECK	NSLK 8127	8127-902	2021-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2020-08-22
DC Power Supply	ACPOWER	ADC-0800025-15	D215010003	2021-03-19
Temperature Chamber	SHKTEST	SHK-B101	20190819001	2021-03-15
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-06
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-06
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-18~40G	YINGLIAN	LB-180400-KF	N/A	2021-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2023-06-26
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2020-08-28
Test Software	BL	BL410_E	N/A	N/A
Test Software	BL	BL410_R	N/A	N/A
Amplifier and Filter group	BL	BL410_E	N/A	2020-11-01
Amplifier and Filter group and Power meter	BL	BL410_R	N/A	2020-11-01

2.4 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

For 802.11b/g/n (HT20/HT40)

Channel	Frequency	Remark
CH1	2412MHz	
CH6	2437MHz	
CH11	2462MHz	

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate (For Chain 1)	Data rate (For Chain 2)
802.11b	11Mbps	11Mbps
802.11g	24Mbps	54Mbps
802.11n(HT20)	MCS3	MCS3
802.11n(HT40)	MCS3	MCS3

Type	Data rate (For MIMO)
802.11b	11Mbps
802.11g	24Mbps
802.11n(HT20)	MCS3
802.11n(HT40)	MCS3

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

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3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	Intel	DRTU

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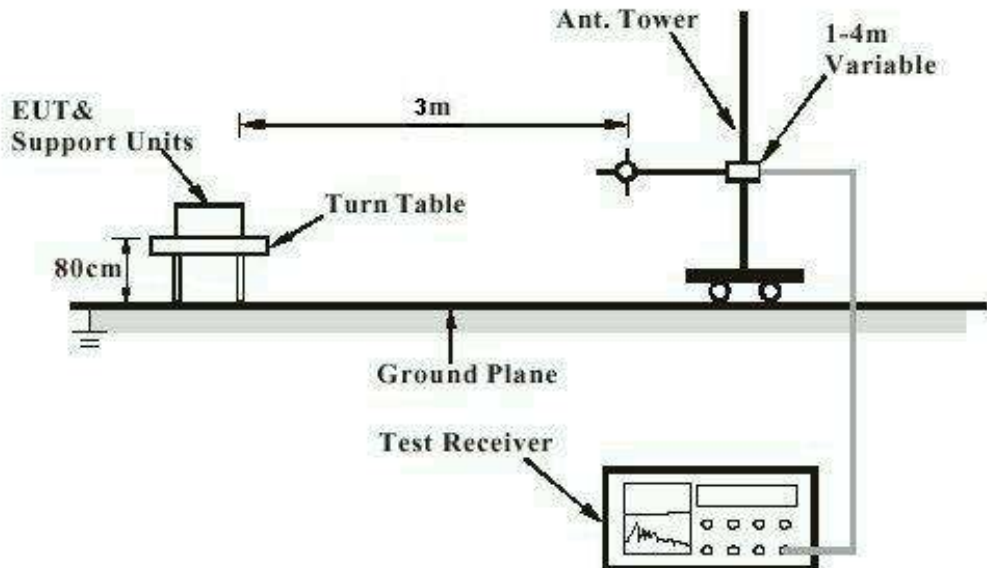
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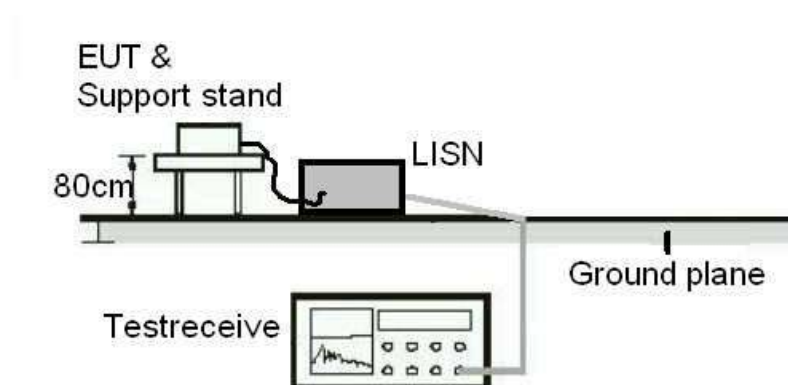
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



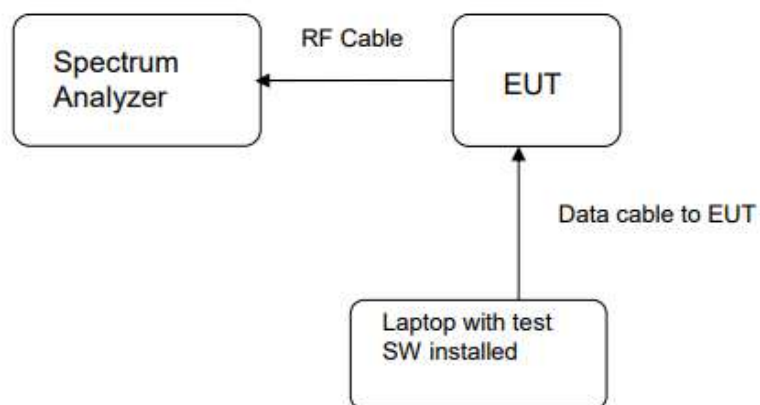
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Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.247(b)(4), Part 15.203

Requirement : The use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has two antennas with a max gain of 0.94dBi for 2.4G band. The antenna is an internal antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Peak Output Power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 23°C

Relative humidity : 52%

Table 1: Peak Output Power

Table 1: Peak Output Power						
Test Mode	Test Channel (MHz)	Measured Peak Power				Limit (W)
		Chain 1		Chain 2		
		(dBm)	(mW)	(dBm)	(mW)	
802.11b	2412	15.51	35.56	15.39	34.59	< 1
	2437	15.69	37.07	15.46	35.16	
	2462	15.63	36.56	15.21	33.19	
802.11g	2412	15.37	34.43	15.32	34.04	
	2437	15.36	34.36	15.34	34.20	
	2462	15.38	34.51	15.06	32.06	
802.11n(HT20)	2412	15.34	34.20	15.37	34.43	
	2437	15.43	34.91	15.35	34.28	
	2462	15.38	34.51	15.09	32.28	
802.11n(HT40)	2422	14.90	30.90	15.03	31.84	
	2437	14.84	30.48	15.09	32.28	
	2452	14.74	29.79	14.91	30.97	

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Test Mode	Test Channel (MHz)	Measured Peak Power				Limit (W)
		MIMO Chain 1		MIMO Chain 2		
		(dBm)	(mW)	(dBm)	(mW)	
802.11b	2412	15.36	34.36	15.24	33.42	< 1
	2437	15.59	36.22	15.25	33.50	
	2462	15.14	32.66	14.84	30.48	
802.11g	2412	15.05	31.99	14.99	31.55	
	2437	15.09	32.28	15.29	33.81	
	2462	14.89	30.83	14.84	30.48	
802.11n(HT20)	2412	15.03	31.84	15.15	32.73	
	2437	15.26	33.57	14.88	30.76	
	2462	15.18	32.96	14.93	31.12	
802.11n(HT40)	2422	14.76	29.92	14.96	31.33	
	2437	14.74	29.79	14.96	31.33	
	2452	14.57	28.64	14.62	28.97	

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		MIMO		
		(dBm)	(mW)	
802.11b	2412	18.31	67.78	< 1
	2437	18.43	69.72	
	2462	18.00	63.14	
802.11g	2412	18.03	63.54	
	2437	18.20	66.09	
	2462	17.88	61.31	
802.11n(HT20)	2412	18.10	64.57	
	2437	18.08	64.33	
	2462	18.07	64.08	
802.11n(HT40)	2422	17.87	61.25	
	2437	17.86	61.12	
	2452	17.60	57.61	

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Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	Measured Peak Power				Limit (W)
		Chain 1		Chain 2		
		(dBm)	(mW)	(dBm)	(mW)	
802.11b	2412	16.45	44.16	14.71	29.58	< 4
	2437	16.63	46.03	14.78	30.06	
	2462	16.57	45.39	14.53	28.38	
802.11g	2412	16.31	42.76	14.64	29.11	
	2437	16.30	42.66	14.66	29.24	
	2462	16.32	42.85	14.38	27.42	
802.11n(HT20)	2412	16.28	42.46	14.69	29.44	
	2437	16.37	43.35	14.67	29.31	
	2462	16.32	42.85	14.41	27.61	
802.11n(HT40)	2422	15.84	38.37	14.35	27.23	
	2437	15.78	37.84	14.41	27.61	
	2452	15.68	36.98	14.23	26.49	

Test Mode	Test Channel (MHz)	Measured Peak Power				Limit (W)
		MIMO Chain 1		MIMO Chain 2		
		(dBm)	(mW)	(dBm)	(mW)	
802.11b	2412	16.30	42.66	14.56	28.58	< 4
	2437	16.53	44.98	14.57	28.64	
	2462	16.08	40.55	14.16	26.06	
802.11g	2412	15.99	39.72	14.31	26.98	
	2437	16.03	40.09	14.61	28.91	
	2462	15.83	38.28	14.16	26.06	
802.11n(HT20)	2412	15.97	39.54	14.47	27.99	
	2437	16.20	41.69	14.20	26.30	
	2462	16.12	40.93	14.25	26.61	
802.11n(HT40)	2422	15.70	37.15	14.28	26.79	
	2437	15.68	36.98	14.28	26.79	
	2452	15.51	35.56	13.94	24.77	

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Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		MIMO		
		(dBm)	(mW)	
802.11b	2412	22.26	168.27	< 4
	2437	22.38	172.98	
	2462	21.95	156.68	
802.11g	2412	21.98	157.76	
	2437	22.15	164.06	
	2462	21.83	152.41	
802.11n(HT20)	2412	22.05	160.32	
	2437	22.03	159.59	
	2462	22.02	159.22	
802.11n(HT40)	2422	21.82	152.05	
	2437	21.81	151.71	
	2452	21.55	142.89	

Note :

2.4G MIMO gain is $0.94\text{dBi} + 10\log(2) = 3.95\text{dBi}$ (0.94dBi is MAX gain of 2.4G)

Wifi 1 Antenna gain is 0.94dBi

Wifi 2 Antenna gain is -0.68dBi

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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 23°C

Relative humidity : 52%

Table 3: Chain 1 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	10.313	13.425	0.5
	2437	10.263	13.420	
	2462	10.163	13.470	
802.11g	2412	16.571	16.948	
	2437	16.521	16.965	
	2462	16.521	16.905	
802.11n(HT20)	2412	17.722	18.027	
	2437	17.822	18.036	
	2462	17.772	18.039	
802.11n(HT40)	2422	36.473	36.459	
	2437	36.573	36.418	
	2452	36.473	36.440	

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Table 4: Chain 2 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	10.163	13.455	0.5
	2437	10.713	13.438	
	2462	9.912	13.510	
802.11g	2412	16.570	16.859	
	2437	16.520	16.865	
	2462	16.570	16.911	
802.11n(HT20)	2412	16.772	18.070	
	2437	17.822	18.057	
	2462	17.771	18.108	
802.11n(HT40)	2422	36.523	36.527	
	2437	36.473	36.372	
	2452	36.473	36.482	

Table 5: MIMO 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	10.213	13.484	0.5
	2437	9.512	13.489	
	2462	9.962	13.450	
802.11g	2412	16.521	16.927	
	2437	16.571	16.990	
	2462	16.521	16.971	
802.11n(HT20)	2412	17.622	17.956	
	2437	17.622	18.007	
	2462	16.671	17.988	
802.11n(HT40)	2422	35.272	36.375	
	2437	36.272	36.353	
	2452	35.772	36.292	

Note:

The all chains were tested respectively, but only the worst configuration shown here.

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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11b, 2412MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11b, 2412MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11b, 2412MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11b, 2437MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11b, 2437MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11b, 2462MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11b, 2462MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11b, 2462MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11g, 2412MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11g, 2412MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11g, 2412MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11g, 2437MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11g, 2437MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11g, 2437MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11g, 2462MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11g, 2462MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11g, 2462MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2412MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2412MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2437MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2437MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2462MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2462MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2462MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2422MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2422MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2422MHz



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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2437MHz



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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2437MHz



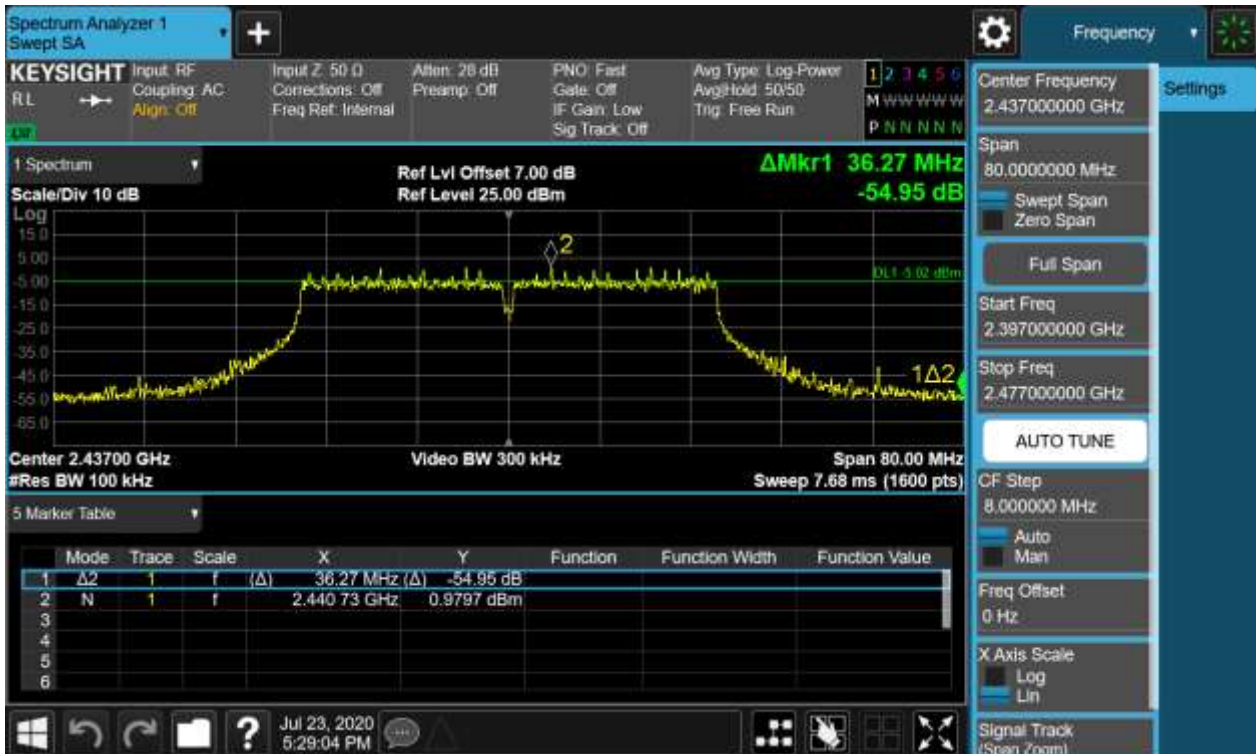
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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2437MHz



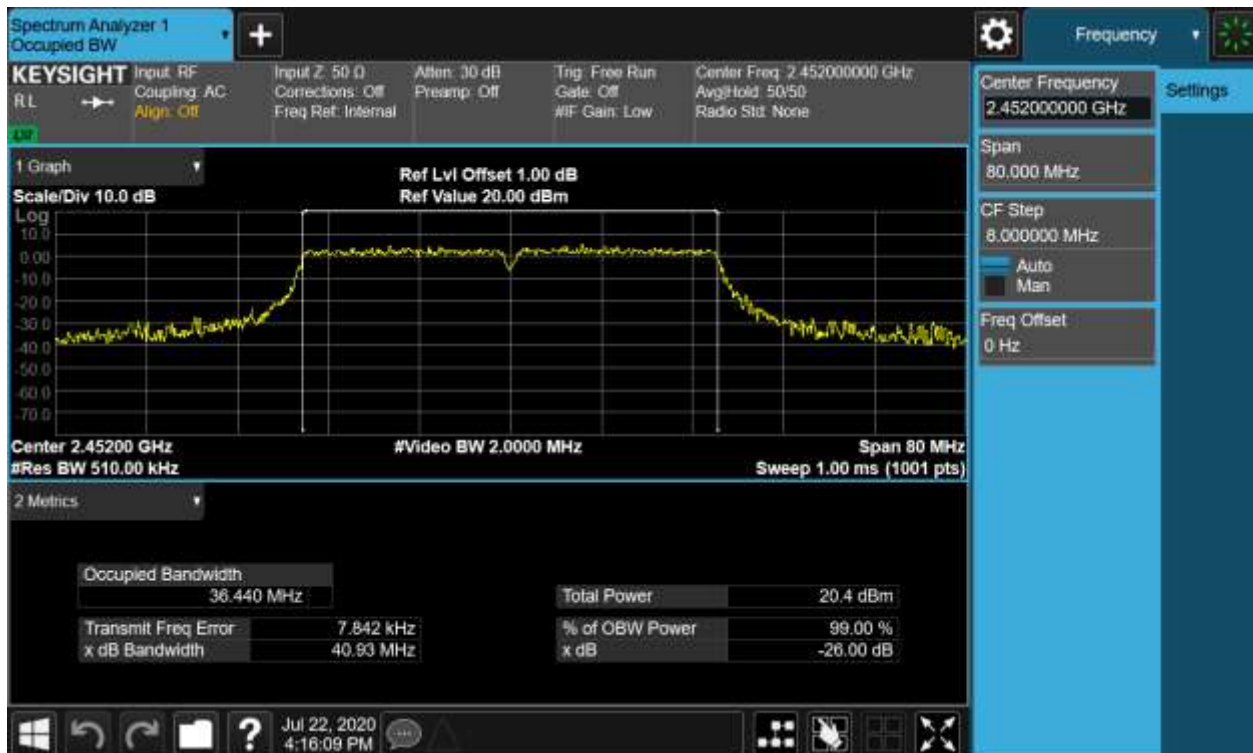
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Chain 1 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2452MHz



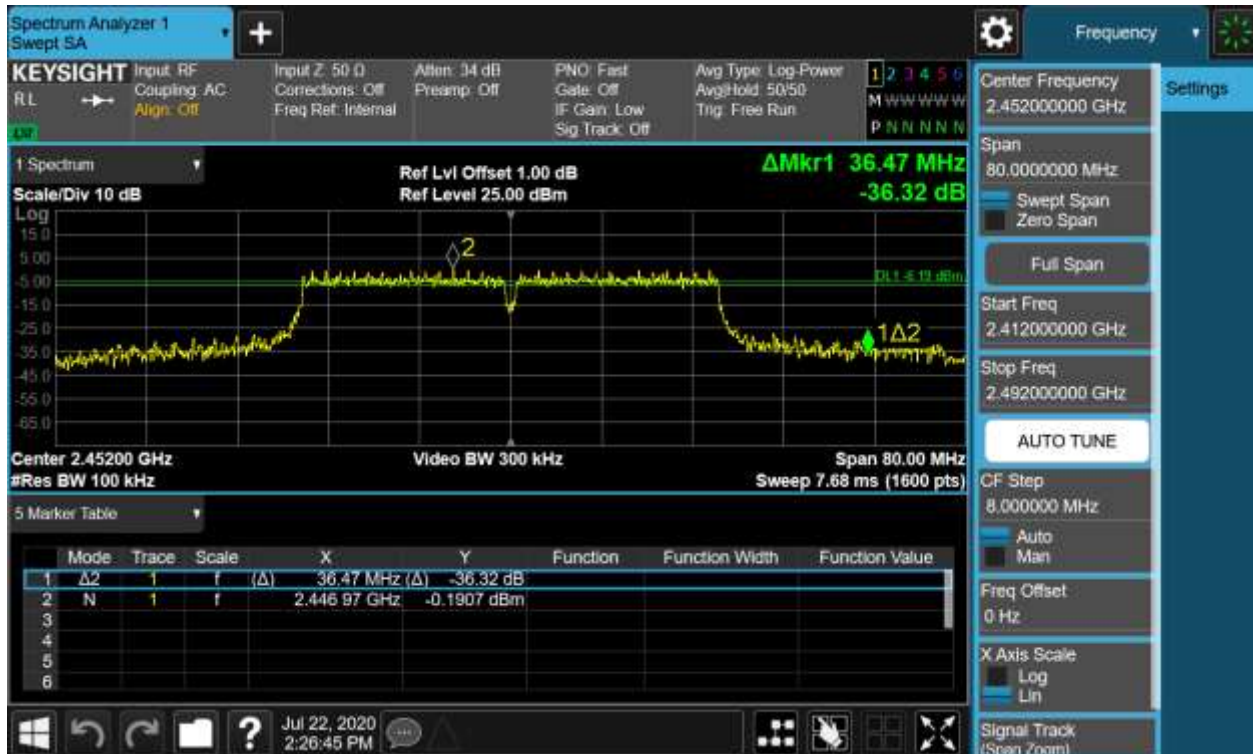
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Chain 2 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2452MHz



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MIMO 6dB Bandwidth and 99% Bandwidth, 802.11n(HT40), 2452MHz



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4.1.4 Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.247(e)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 23°C

Relative humidity : 52%

Table 6: Chain 1 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-10.23	8
	2437	-10.96	
	2462	-9.93	
802.11g	2412	-12.62	
	2437	-11.75	
	2462	-11.95	
802.11n(HT20)	2412	-12.38	
	2437	-12.15	
	2462	-11.79	
802.11n(HT40)	2422	-14.83	
	2437	-19.06	
	2452	-18.61	

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Table 7: Chain 2 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-13.05	8
	2437	-13.21	
	2462	-13.64	
802.11g	2412	-15.39	
	2437	-15.14	
	2462	-16.59	
802.11n(HT20)	2412	-15.83	
	2437	-14.59	
	2462	-16.11	
802.11n(HT40)	2422	-18.98	
	2437	-18.52	
	2452	-18.66	

Table 8: MIMO Chain 1 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-11.03	8
	2437	-11.27	
	2462	-11.97	
802.11g	2412	-13.42	
	2437	-12.49	
	2462	-13.58	
802.11n(HT20)	2412	-12.54	
	2437	-12.64	
	2462	-13.07	
802.11n(HT40)	2422	-16.52	
	2437	-16.29	
	2452	-16.95	

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Table 9: MIMO Chain 2 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-10.62	8
	2437	-10.15	
	2462	-11.33	
802.11g	2412	-12.63	
	2437	-12.03	
	2462	-12.96	
802.11n(HT20)	2412	-12.73	
	2437	-13.22	
	2462	-12.31	
802.11n(HT40)	2422	-17.46	
	2437	-15.71	
	2452	-15.70	

Table 10: MIMO Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-7.81	8
	2437	-7.66	
	2462	-8.63	
802.11g	2412	-10.00	
	2437	-9.24	
	2462	-10.25	
802.11n(HT20)	2412	-9.62	
	2437	-9.91	
	2462	-9.66	
802.11n(HT40)	2422	-13.95	
	2437	-12.98	
	2452	-13.27	

Note:

The all chains were tested respectively, but only the worst configuration shown here.

MIMO PSD= Chain1+Chain2 (mw)

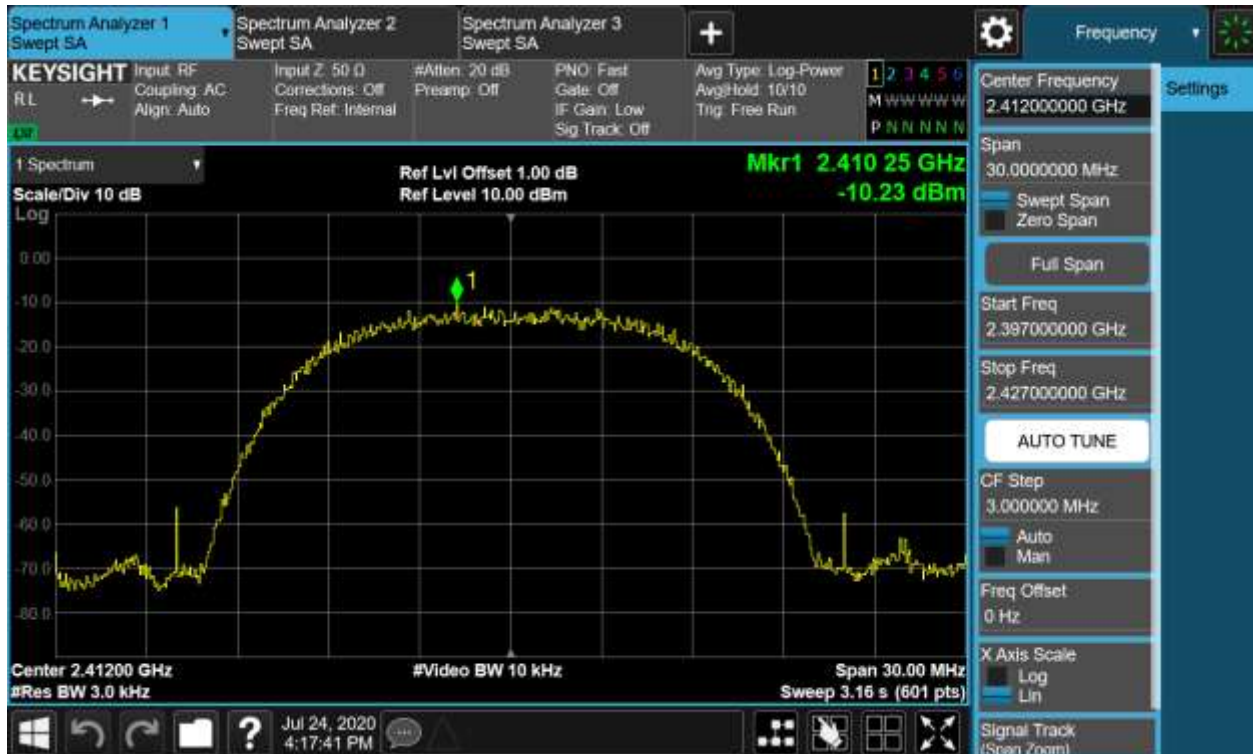
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Chain 1 Power Spectral Density, 802.11b, 2412MHz



Chain 2 Power Spectral Density, 802.11b, 2412MHz



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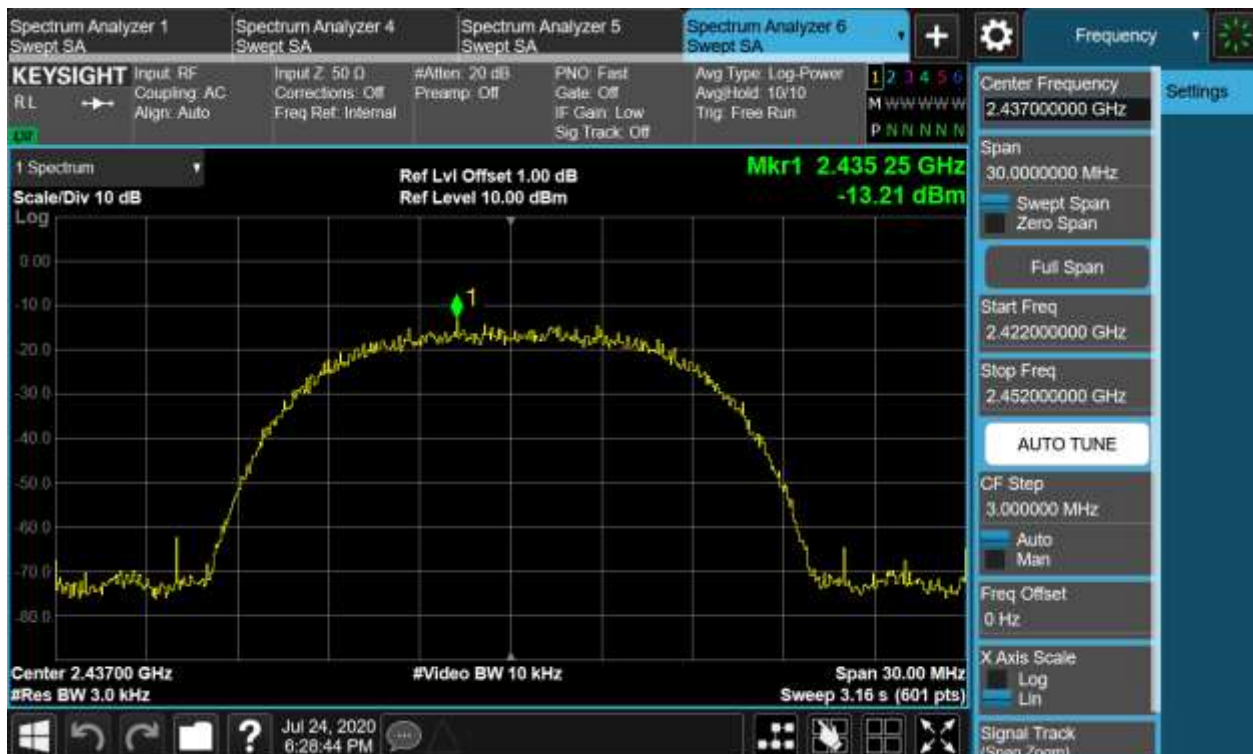
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Chain 1 Power Spectral Density, 802.11b, 2437MHz



Chain 2 Power Spectral Density, 802.11b, 2437MHz



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Chain 1 Power Spectral Density, 802.11b, 2462MHz



Chain 2 Power Spectral Density, 802.11b, 2462MHz



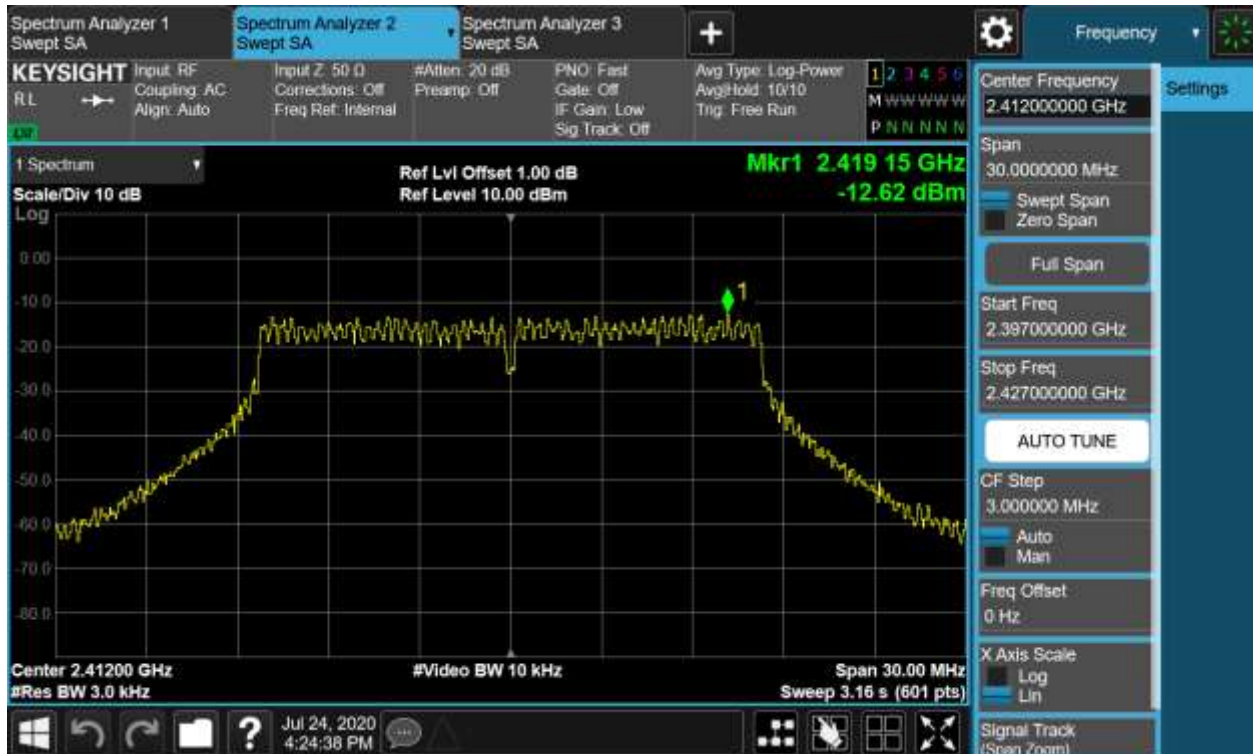
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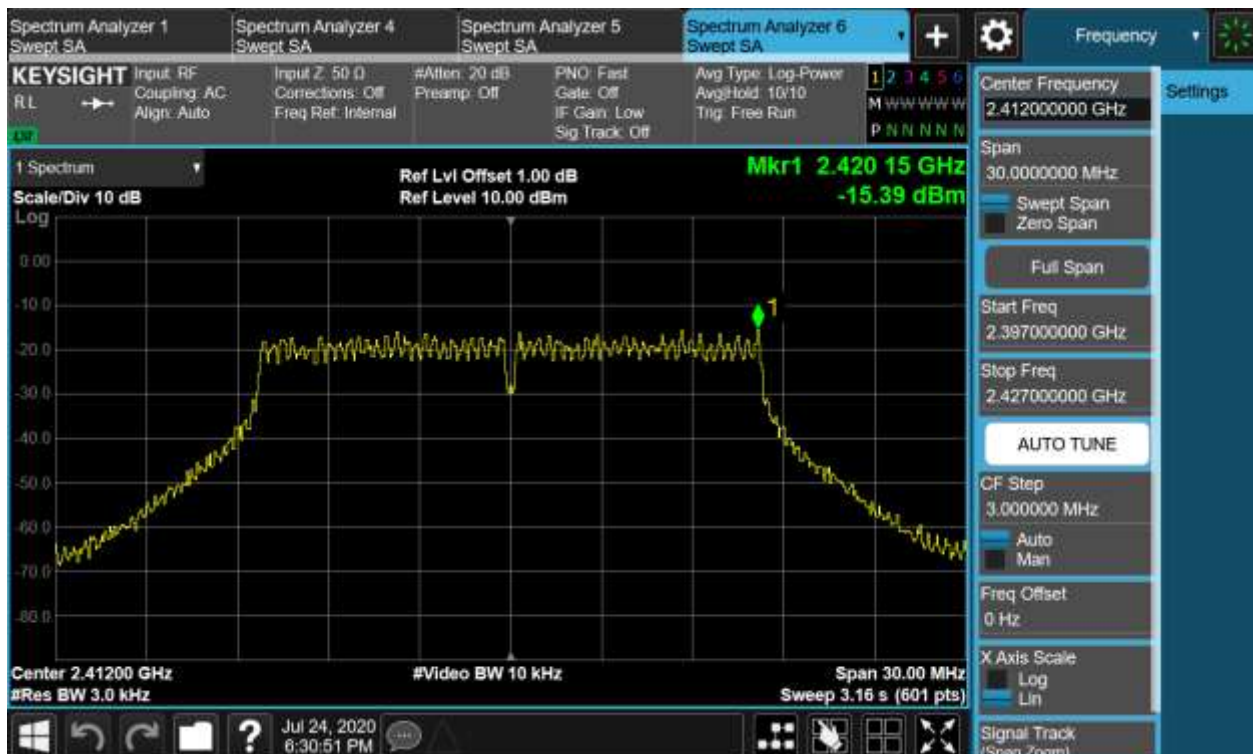
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Chain 1 Power Spectral Density, 802.11g, 2412MHz



Chain 2 Power Spectral Density, 802.11g, 2412MHz



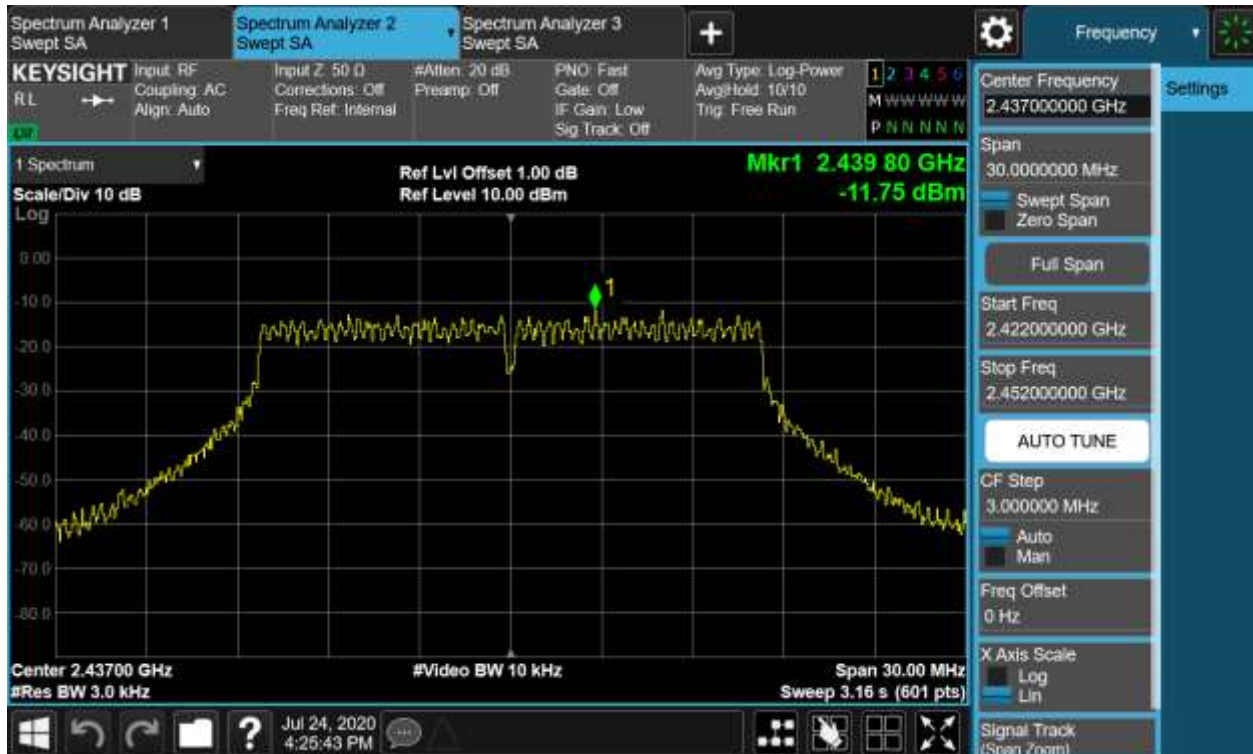
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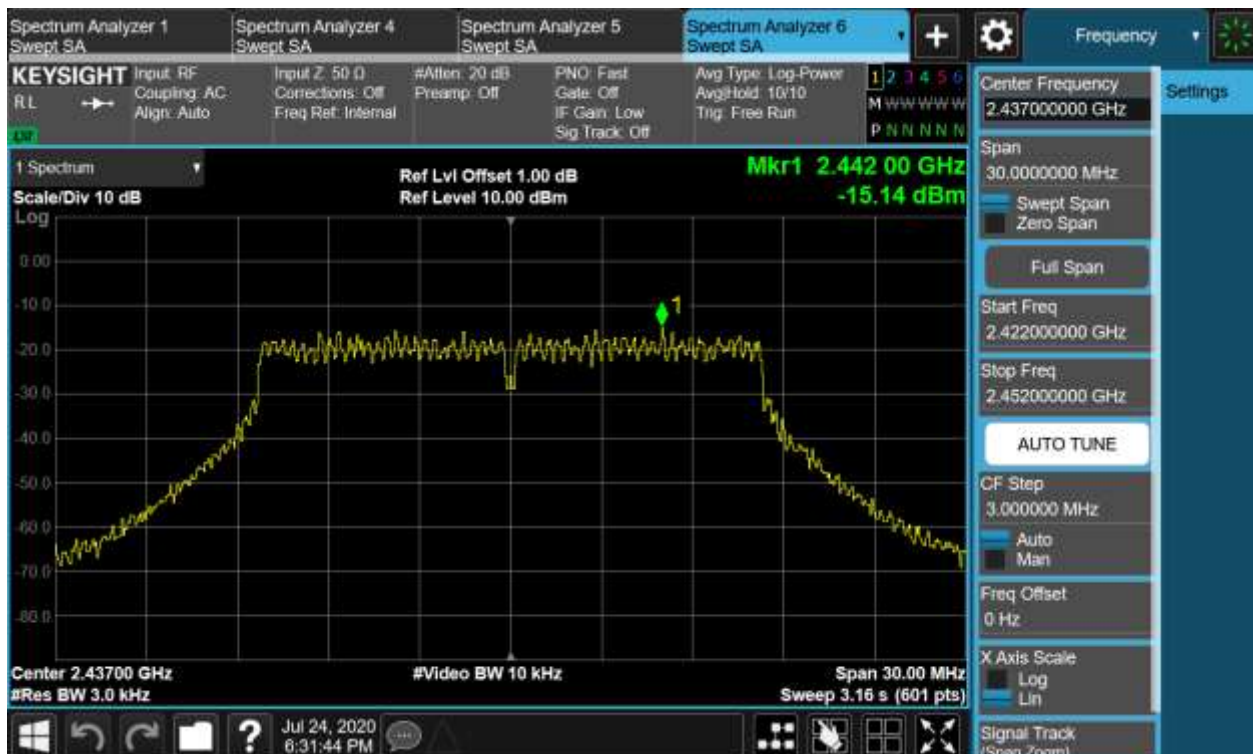
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Chain 1 Power Spectral Density, 802.11g, 2437MHz



Chain 2 Power Spectral Density, 802.11g, 2437MHz



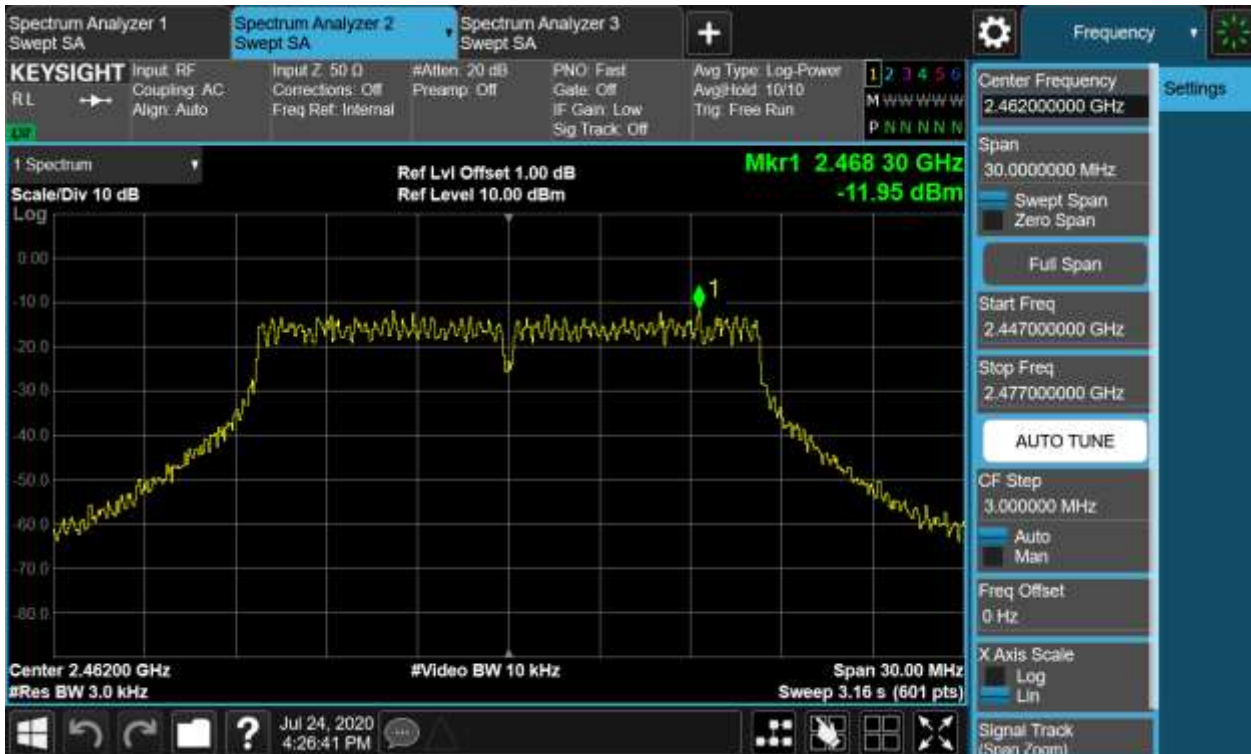
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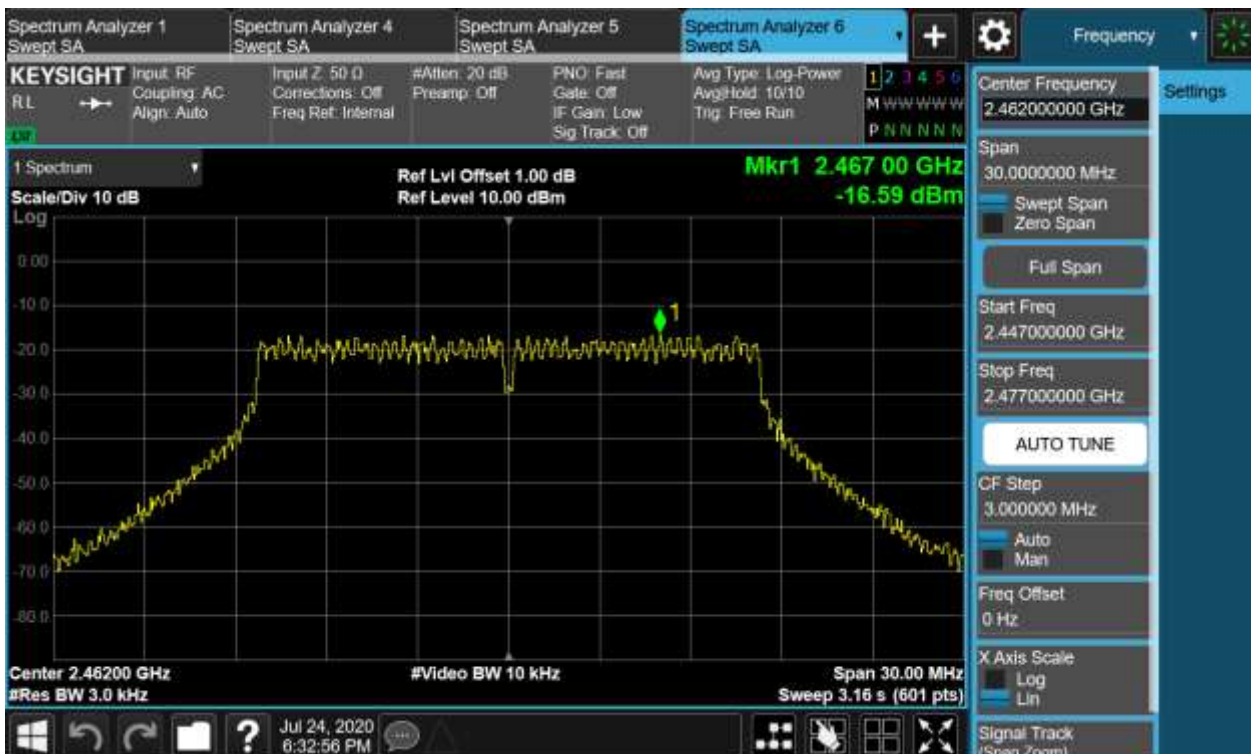
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Chain 1 Power Spectral Density, 802.11g, 2462MHz



Chain 2 Power Spectral Density, 802.11g, 2462MHz



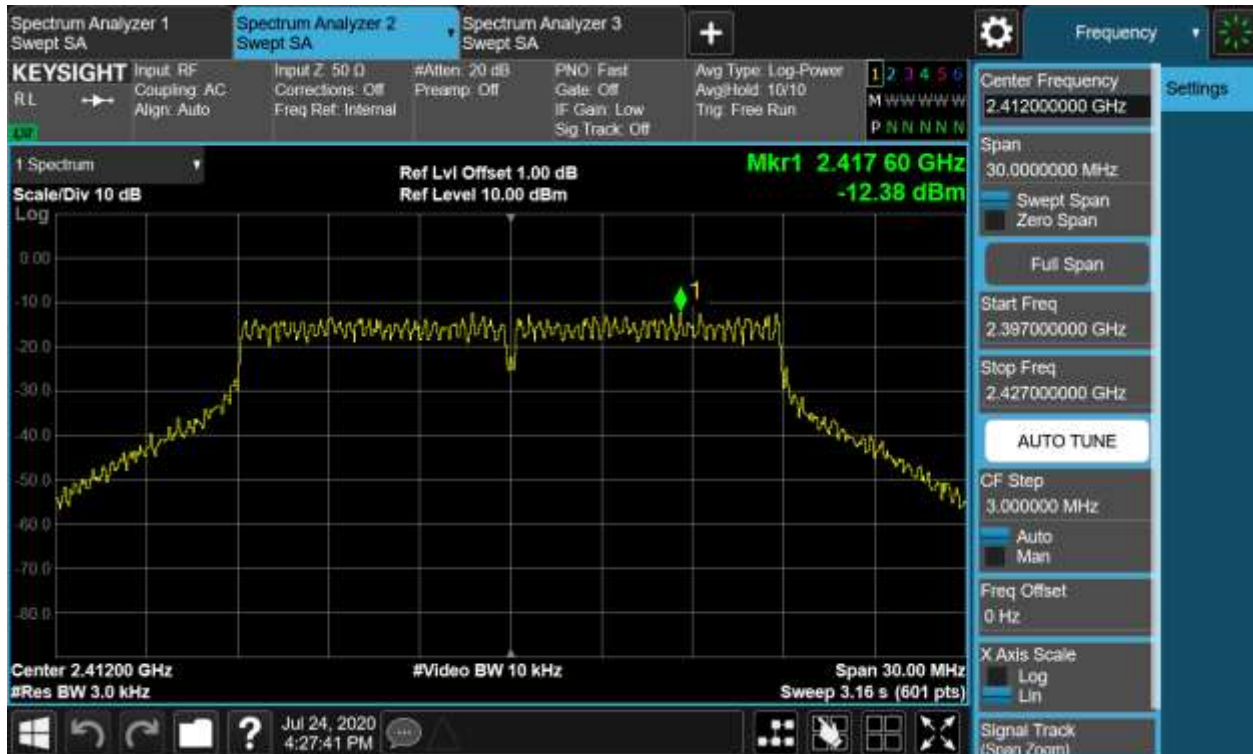
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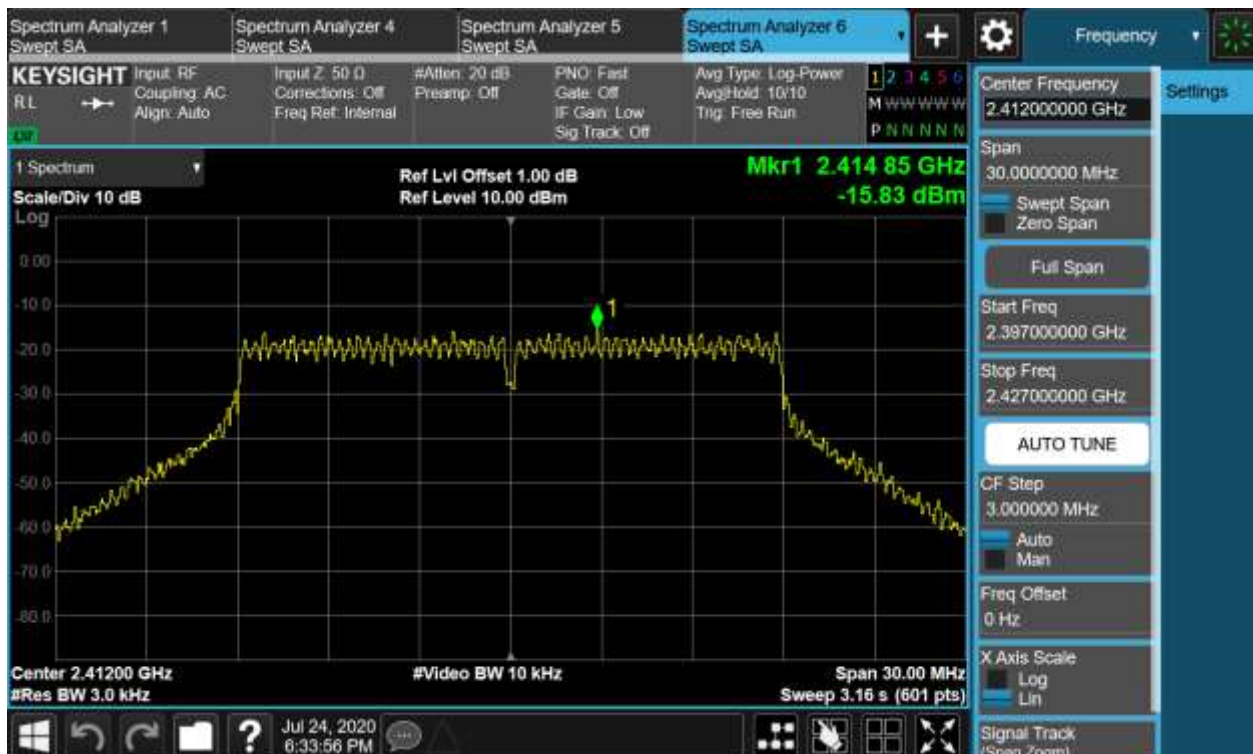
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Chain 1 Power Spectral Density, 802.11n(HT20), 2412MHz



Chain 2 Power Spectral Density, 802.11n(HT20), 2412MHz



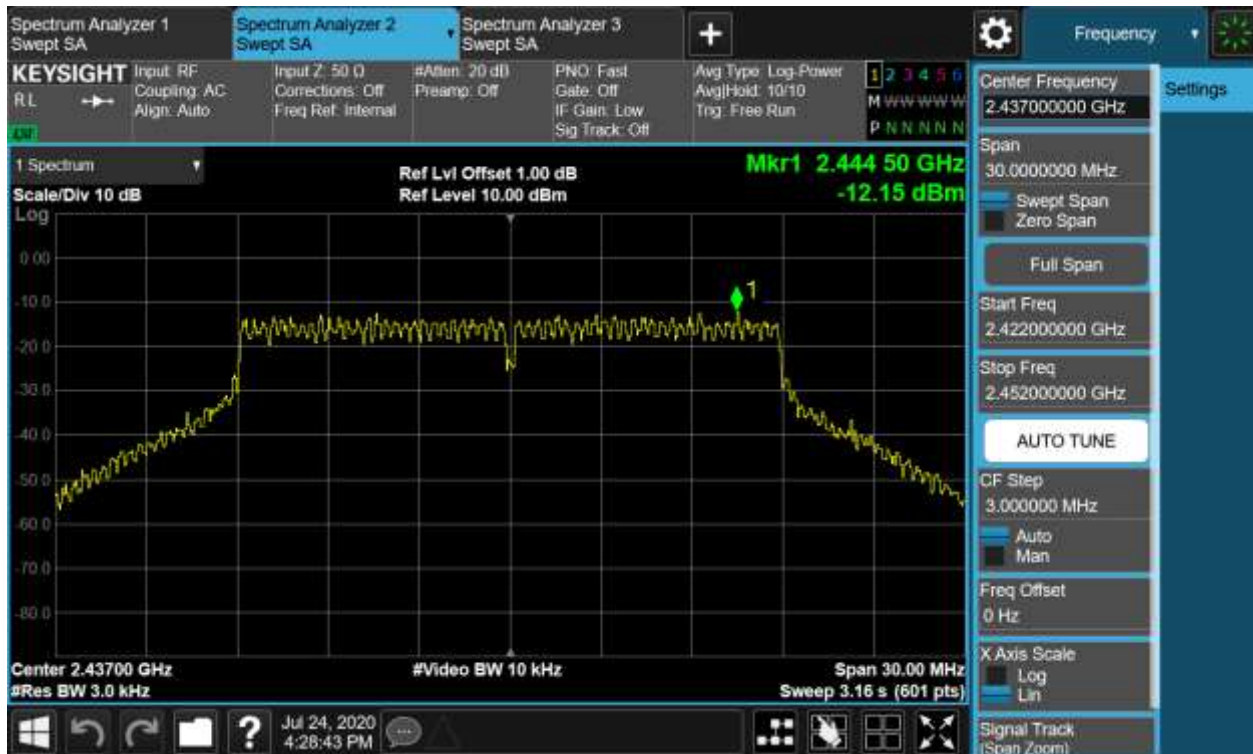
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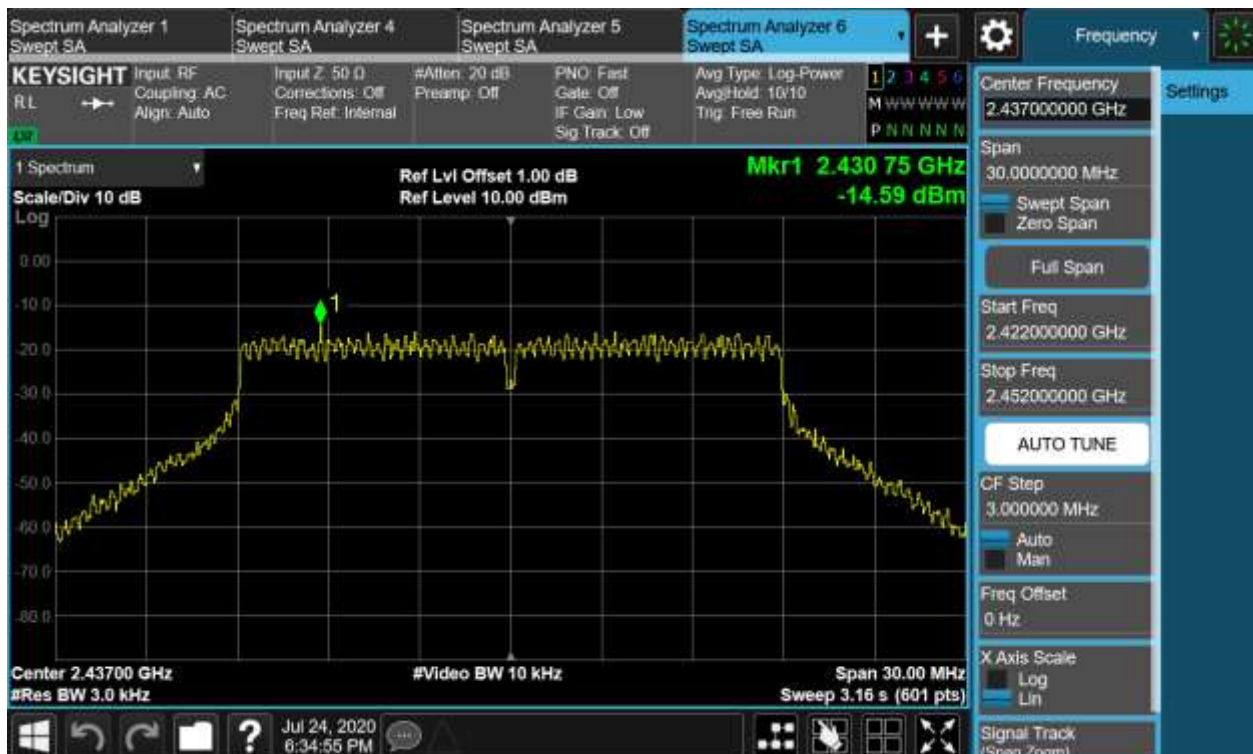
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Chain 1 Power Spectral Density, 802.11n(HT20), 2437MHz



Chain 2 Power Spectral Density, 802.11n(HT20), 2437MHz



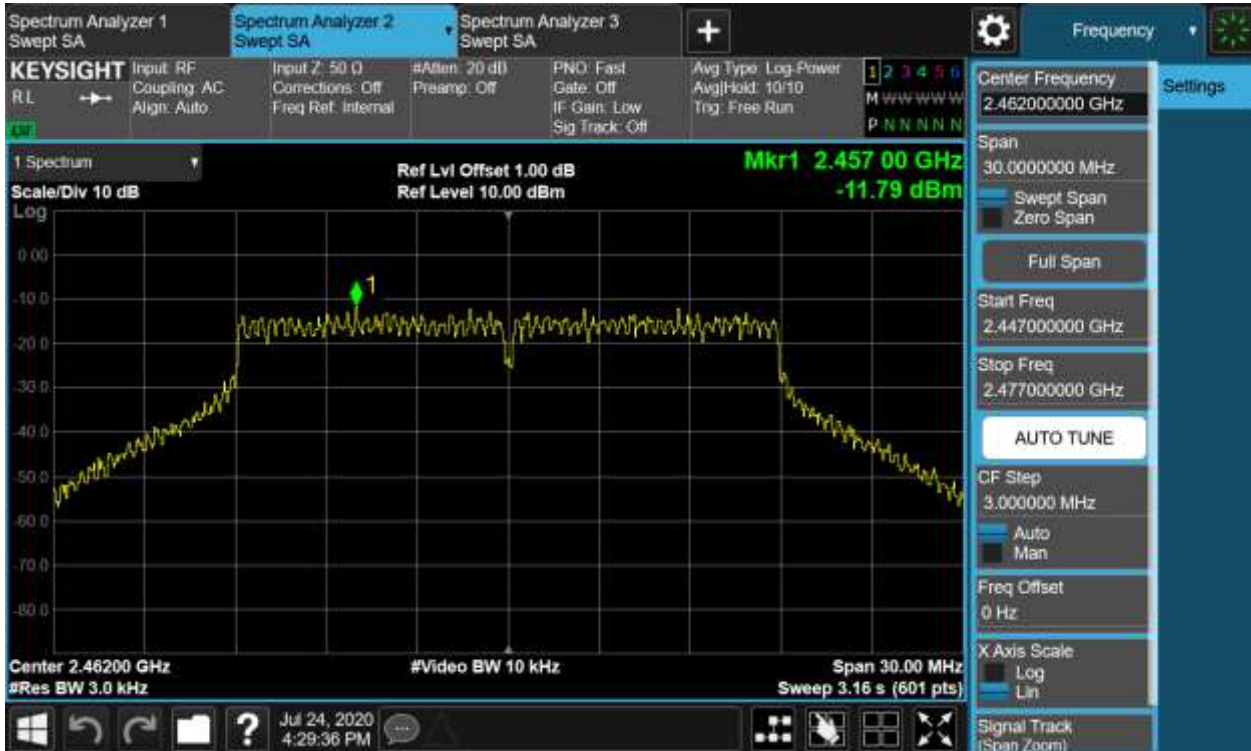
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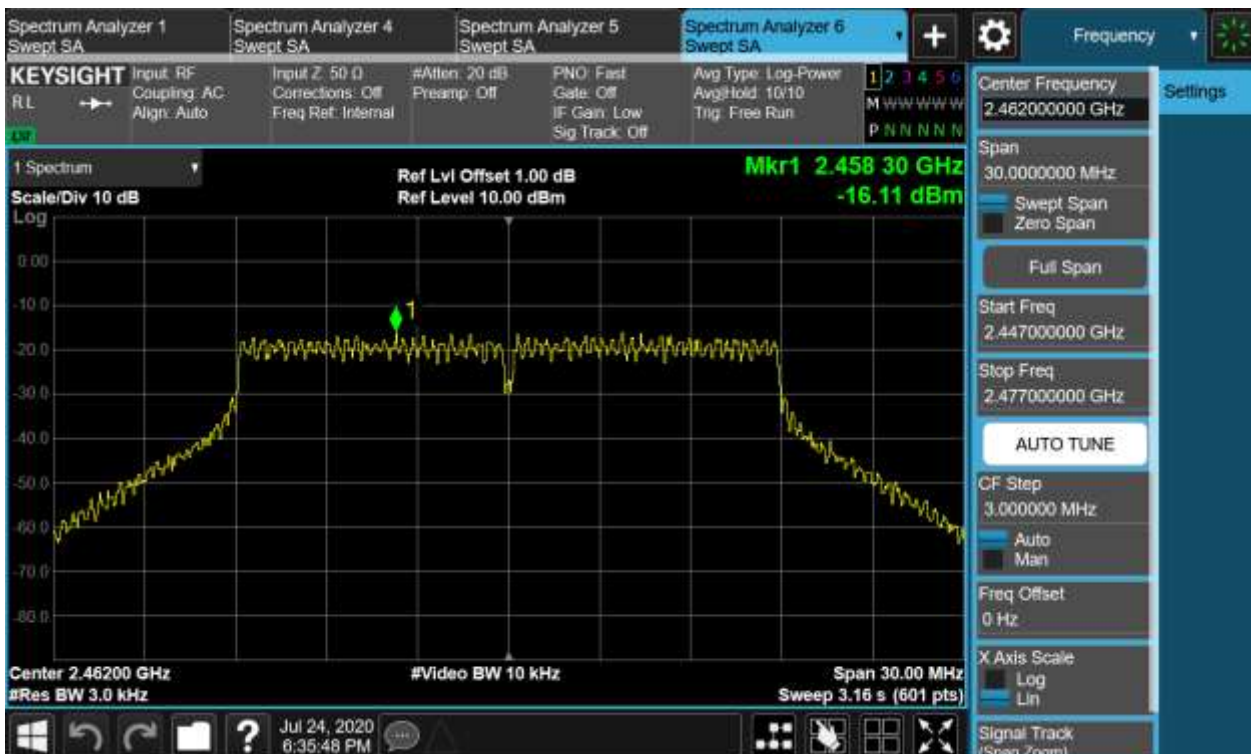
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Chain 1 Power Spectral Density, 802.11n(HT20), 2462MHz



Chain 2 Power Spectral Density, 802.11n(HT20), 2462MHz



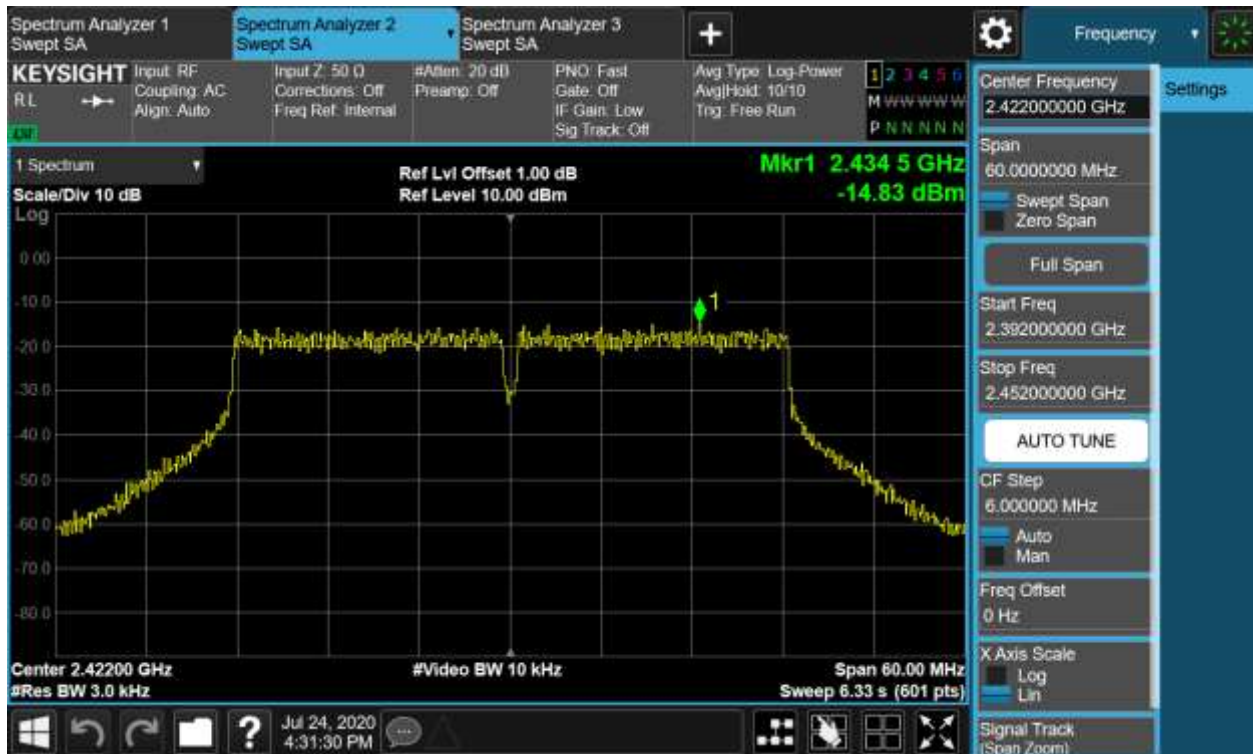
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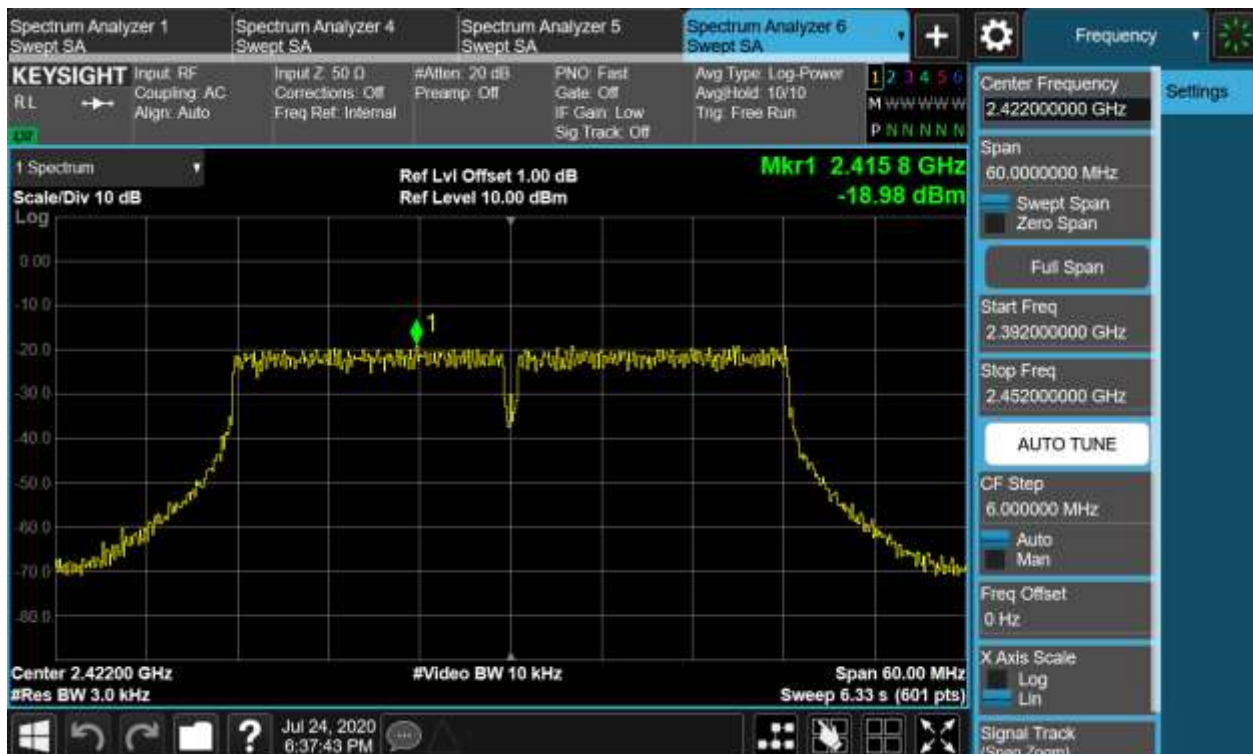
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Chain 1 Power Spectral Density, 802.11n(HT40), 2422MHz



Chain 2 Power Spectral Density, 802.11n(HT40), 2422MHz



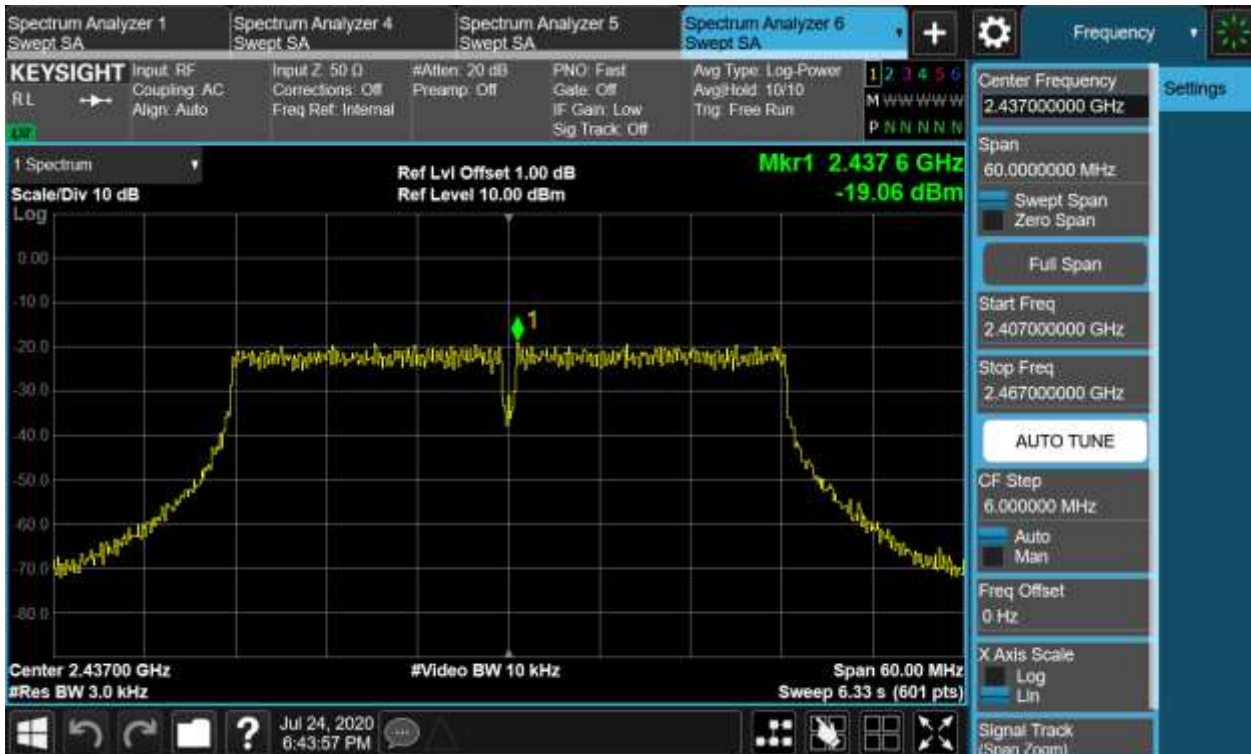
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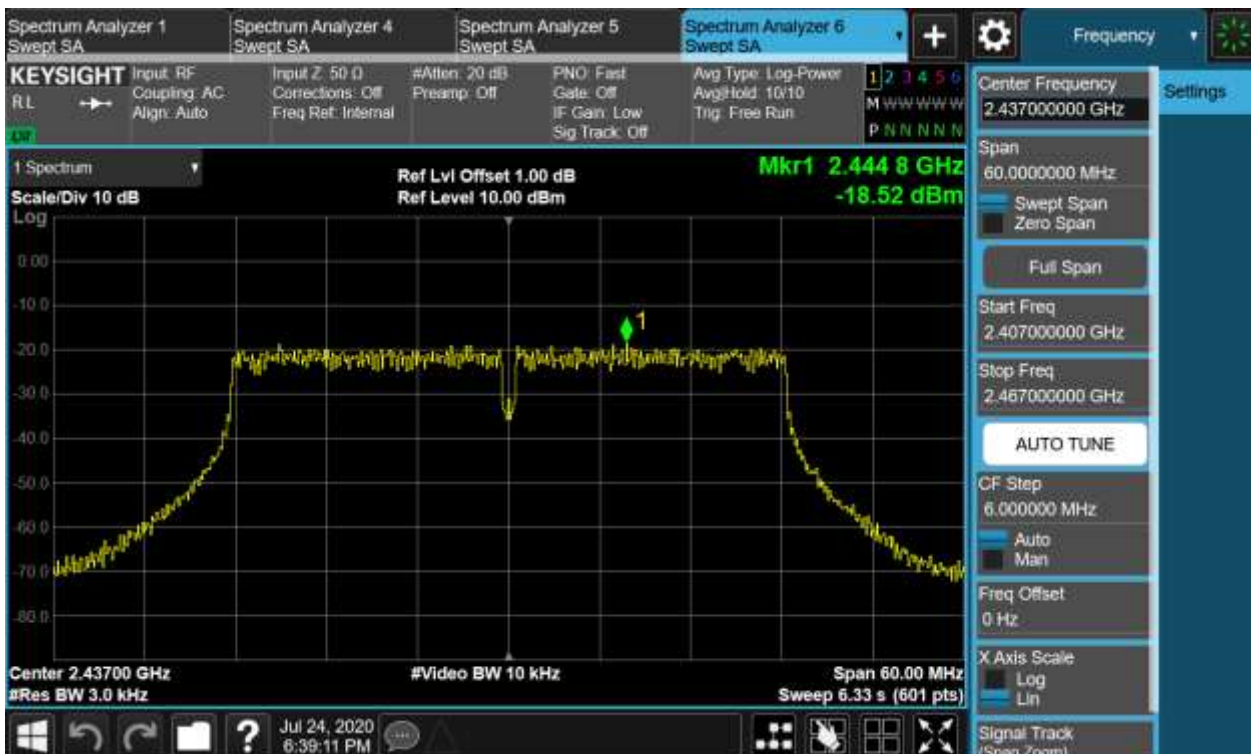
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Chain 1 Power Spectral Density, 802.11n(HT40), 2437MHz



Chain 2 Power Spectral Density, 802.11n(HT40), 2437MHz



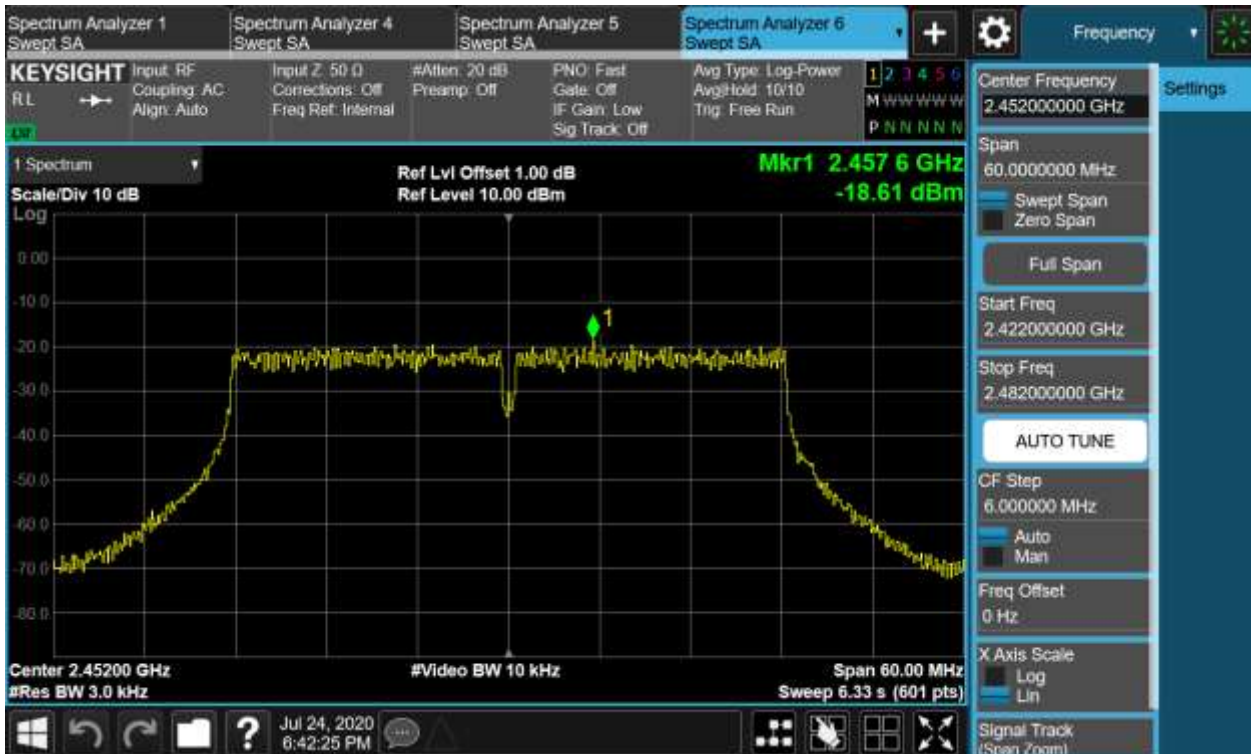
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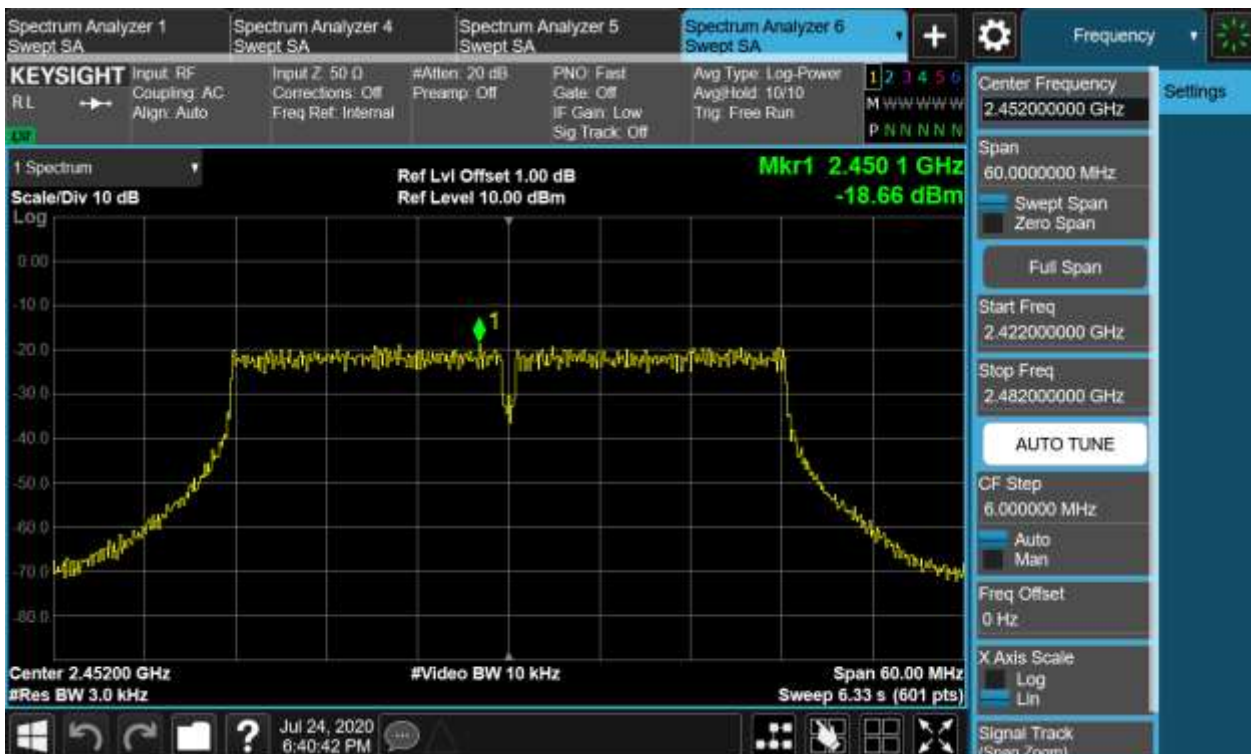
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Chain 1 Power Spectral Density, 802.11n(HT40), 2452MHz



Chain 2 Power Spectral Density, 802.11n(HT40), 2452MHz



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MIMO Chain 1 Power Spectral Density, 802.11b, 2412MHz



MIMO Chain 2 Power Spectral Density, 802.11b, 2412MHz



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MIMO Chain 1 Power Spectral Density, 802.11b 2437MHz



MIMO Chain 2 Power Spectral Density, 802.11b, 2437MHz



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MIMO Chain 1 Power Spectral Density, 802.11b, 2462MHz



MIMO Chain 2 Power Spectral Density, 802.11b, 2462MHz



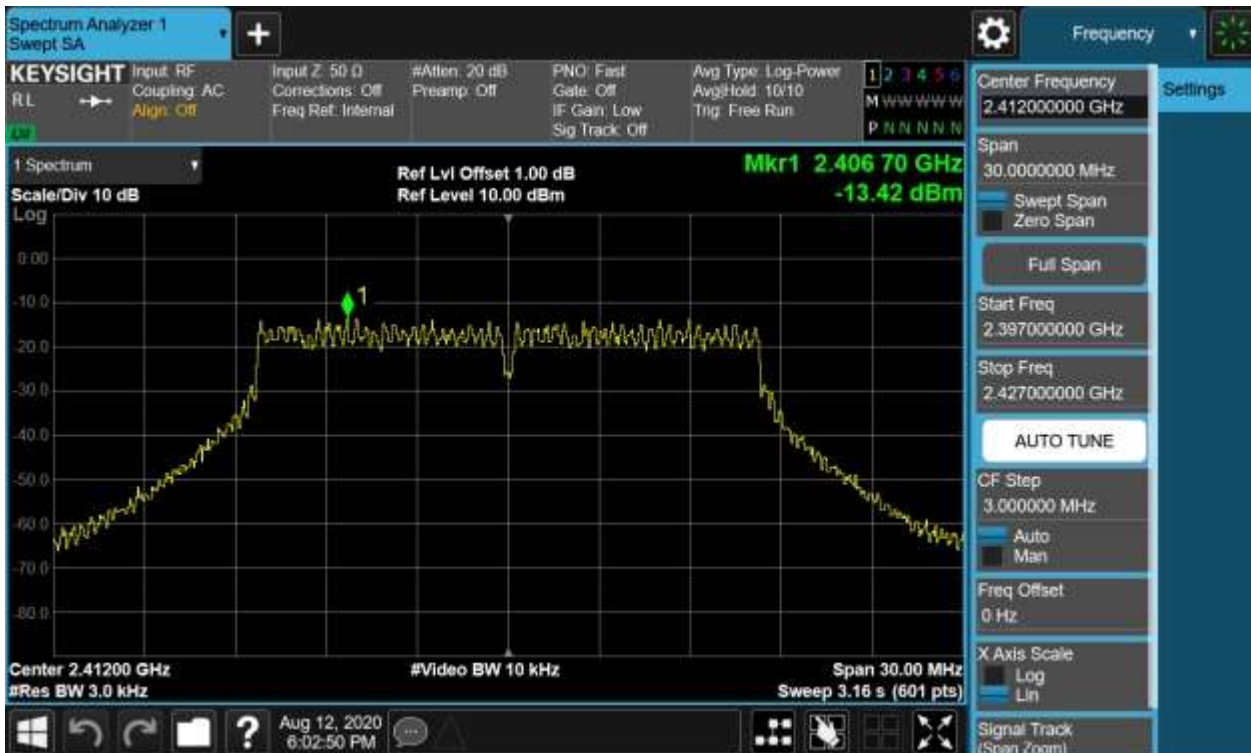
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MIMO Chain 1 Power Spectral Density, 802.11g, 2412MHz



MIMO Chain 2 Power Spectral Density, 802.11g, 2412MHz



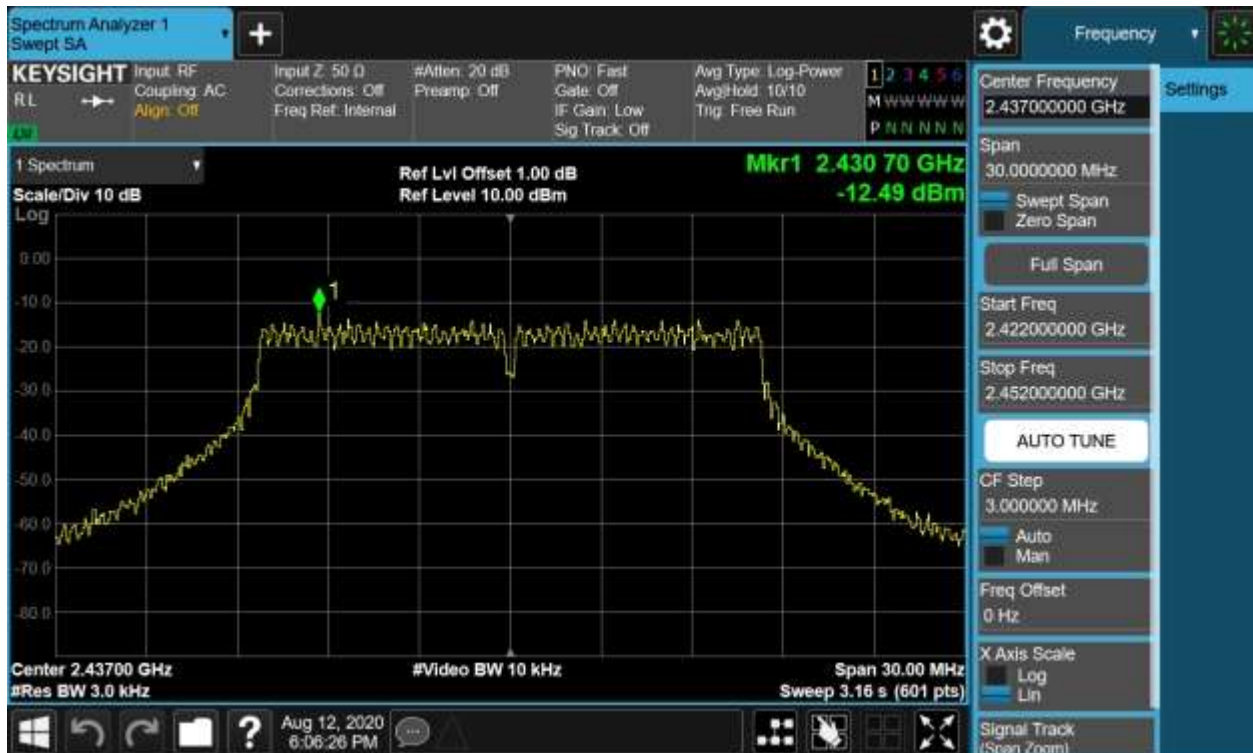
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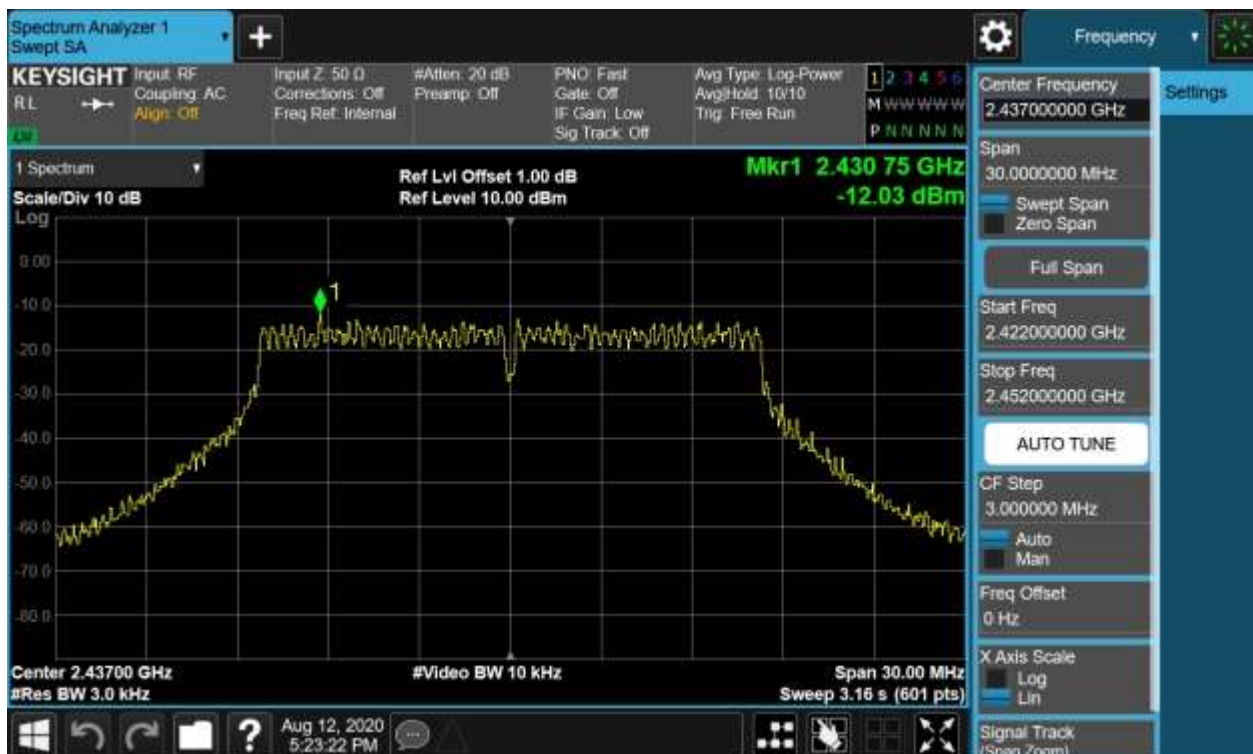
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MIMO Chain 1 Power Spectral Density, 802.11g 2437MHz



MIMO Chain 2 Power Spectral Density, 802.11g, 2437MHz



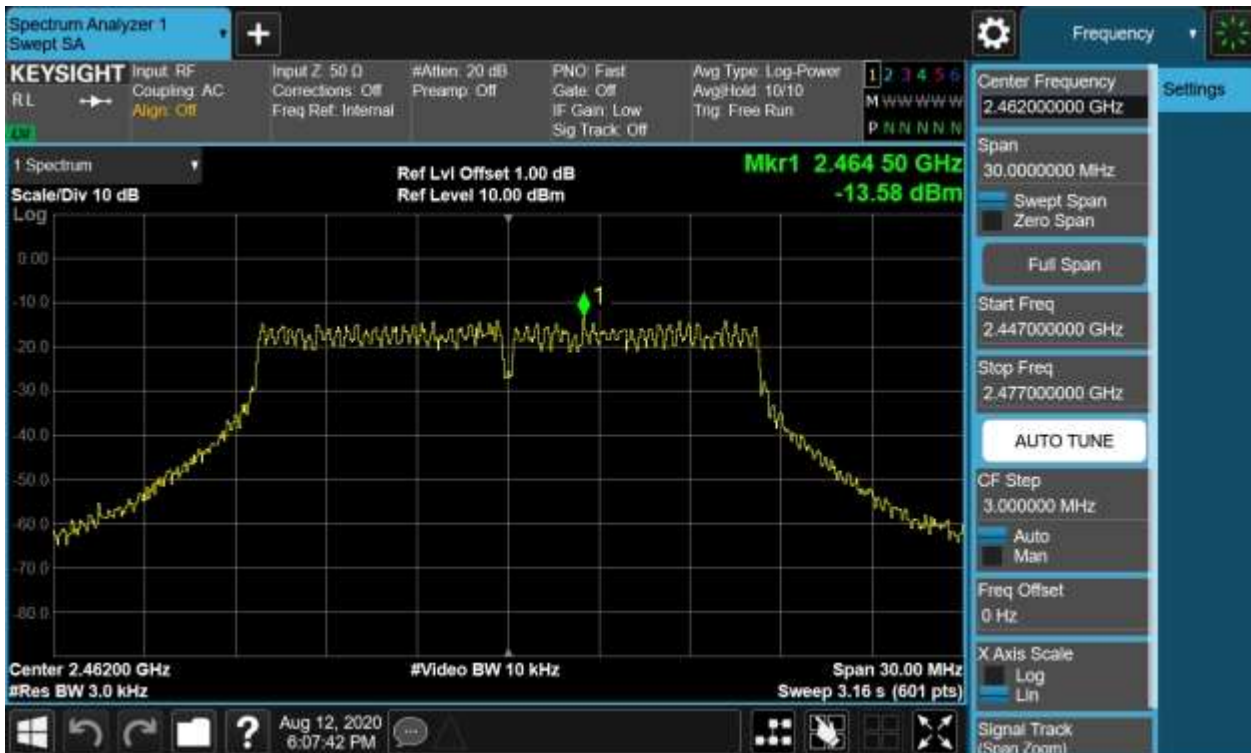
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MIMO Chain 1 Power Spectral Density, 802.11g, 2462MHz



MIMO Chain 2 Power Spectral Density, 802.11g, 2462MHz



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MIMO Chain 1 Power Spectral Density, 802.11n(HT20), 2412MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT20), 2412MHz



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MIMO Chain 1 Power Spectral Density, 802.11n(HT20), 2437MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT20), 2437MHz



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MIMO Chain 1 Power Spectral Density, 802.11n(HT20), 2462MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT20), 2462MHz



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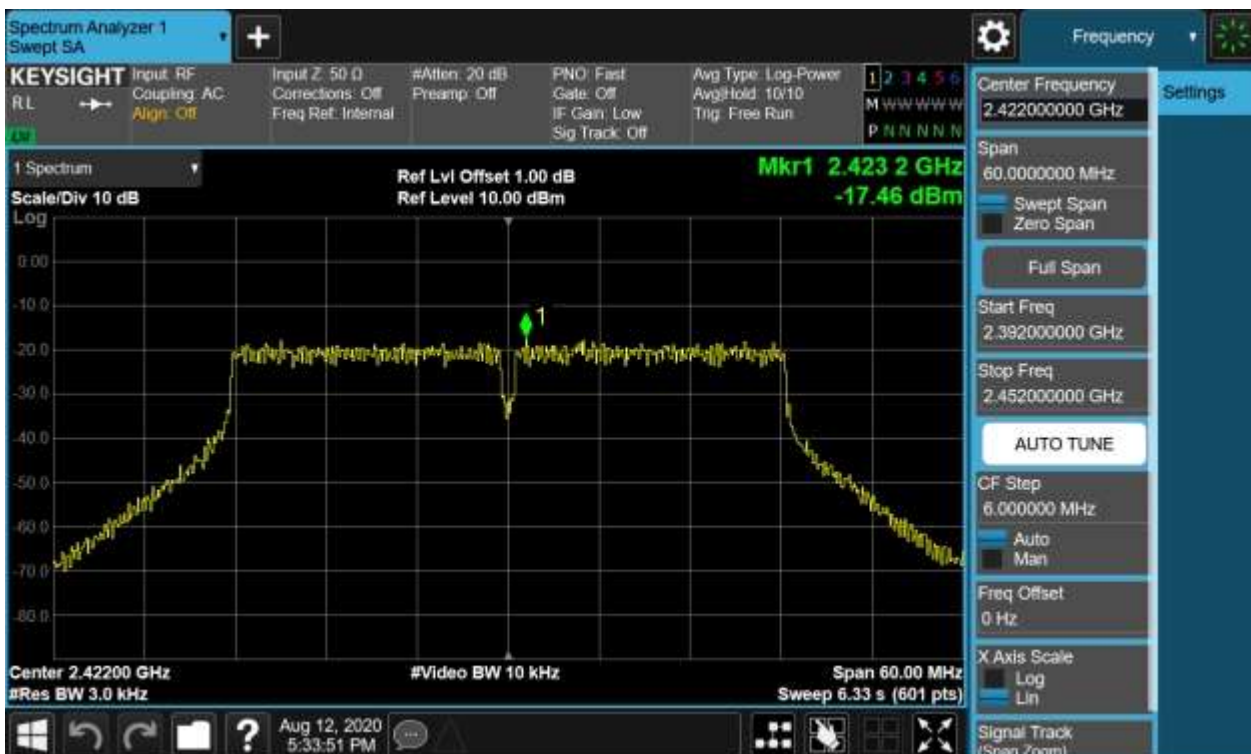
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MIMO Chain 1 Power Spectral Density, 802.11n(HT40), 2422MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT40), 2422MHz



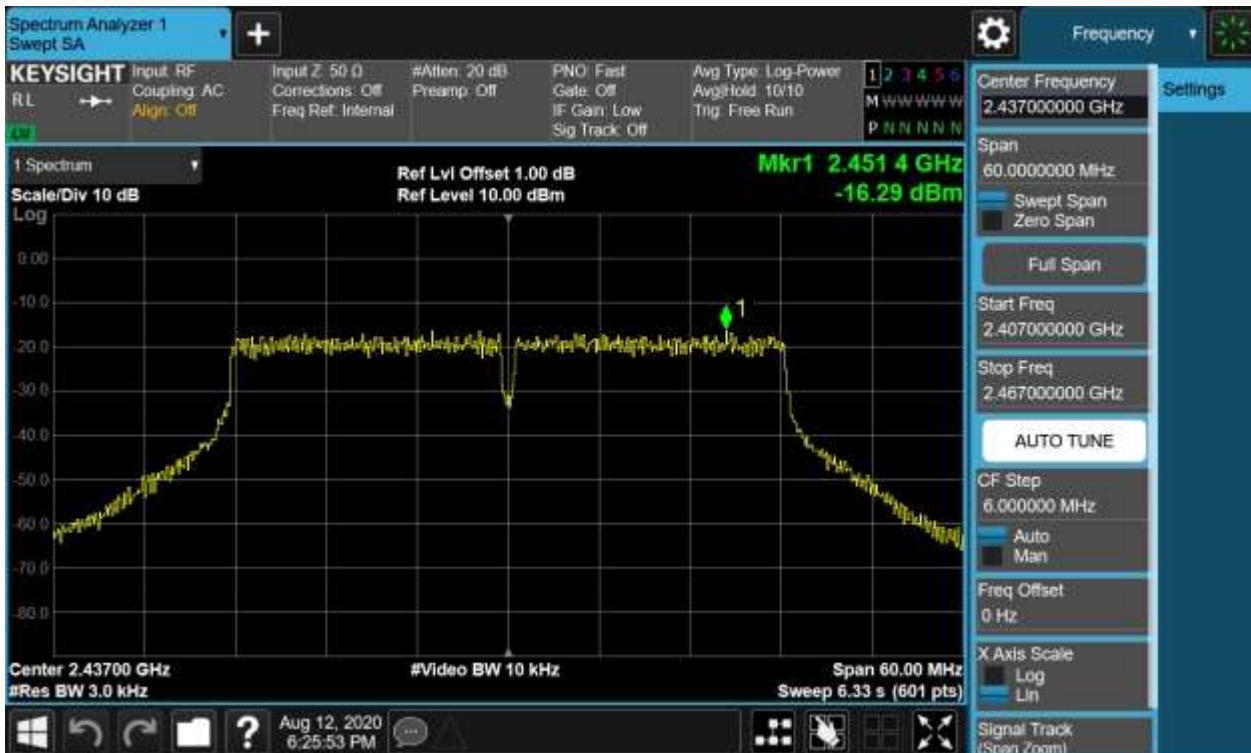
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MIMO Chain 1 Power Spectral Density, 802.11n(HT40), 2437MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT40), 2437MHz



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MIMO Chain 1 Power Spectral Density, 802.11n(HT40), 2452MHz



MIMO Chain 2 Power Spectral Density, 802.11n(HT40), 2452MHz

