



TEST REPORT

REPORT NUMBER: I22W00019-WiFi RF-6E-Rev6

ON

Type of Equipment: Wi-Fi Module
Type of Designation: W82
Brand Name: SIMCom
Manufacturer: SIMCom Wireless Solutions Limited
FCC ID 2AJYU-8XN0002

ACCORDING TO
FCC Part15 Subpart E
ANSI C63.10-2013

Chongqing Academy of Information and Communications Technology

Month date, year

Aug, 23, 2023

Signature

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



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Revision Version

Report Number	Revision	Date
I22W00019-WiFi RF-6E	00	2023-01-06
I22W00019-WiFi RF-6E-Rev1	01	2023-05-04
I22W00019-WiFi RF-6E-Rev2	02	2023-05-17
I22W00019-WiFi RF-6E-Rev3	03	2023-05-19
I22W00019-WiFi RF-6E-Rev4	04	2023-05-23
I22W00019-WiFi RF-6E-Rev5	05	2023-06-25
I22W00019-WiFi RF-6E-Rev6	06	2023-08-23

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777



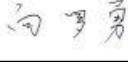
1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2022-08-01
Testing End Date:	2023-08-23

1.4. Signature

	2023-08-23
Dong Junxin (Prepared this test report)	Date
	2023-08-23
Wang Lili (Reviewed this test report)	Date
	2023-08-23
Xiang Luoyong Director of the laboratory (Approved this test report)	Date

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2. Client Information

2.1. Applicant Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	86 21 3157 5100
Fax:	--
Email:	Yongsheng Li@simcom.com
Contact Person:	Yongsheng Li

2.2. Manufacturer Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	86 21 3157 5100
Fax:	--
Email:	Yongsheng Li@simcom.com
Contact Person:	Yongsheng Li

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Wi-Fi Module
Model name	W82
Brand name	SIMCom
WLAN Frequency Band	2.4G/UNII 1/2A/2C/3/5/6/7/8
Product Type	UNII-1/2A/2C/3:Indoor Access Point
	UNII-5/6/7/8:Low-power Indoor Client
Frequency Range	2.4G: 802.11b/g/n20/ax20: 2412-2462MHz; 802.11n40/ax40: 2422-2452MHz
	5.1G : UNII-1:802.11a/n20/ac20/ax20 : 5180-5240MHz ; 802.11n40/ac40/ax40 : 5190-5230MHz; 802.11ac80/ax80: 5210MHz
	UNII-2A: 802.11a/n20/ac20/ax20: 5260-5320MHz; 802.11n40/ac40/ax40: 5270-5310MHz 802.11ac80/ax80: 5290MHz; UNII-1and UNII-2A: 802.11ac160/ax160: 5250MHz
	UNII-2C:802.11a/n20/ac20/ax20: 5500-5700MHz; 802.11n40/ac40/ax40: 5510-5670MHz 802.11ac80/ax80: 5530-5610MHz; 802.11ac160/ax160: 5570MHz
	UNII-3:802.11a/n20/ac20/ax20:5745-5825MHz; 802.11n40/ac40/ax40: 5755-5795MHz 802.11ac80/ax80: 5775MHz
	Band5 : 802.11ax20 : 5955-6415MHz ; 802.11ax40 : 5965-6405MHz ; 802.11ax80 : 5985-6385MHz; 802.11ax160: 6025-6345MHz
	Band6: 802.11ax20: 6435-6515MHz; 802.11ax40: 6445-6525MHz; 802.11ax80: 6465MHz; 802.11ax160: 6505MHz
Band7 : 802.11ax20 : 6535-6855MHz ; 802.11ax40 : 6565-6845MHz ; 802.11ax80 : 6545-6865MHz; 802.11ax160: 6665-6825MHz	
Band8 : 802.11ax20 : 6895-7115MHz ; 802.11ax40 : 6885-7085MHz ; 802.11ax80 : 6945-7025MHz; 802.11ax160: 6985MHz	
802.11 mode	b/g/a/n/ac/ax
Modulation mode	DSSS/CCK/OFDM/OFDMA
Antenna port	Ant0/Ant1
Extreme Test Temperature	-30/+70°C
Nominal Test Voltage	3.8V
Extreme Test High Voltage	4.4V
Extreme Test Low Voltage	3.3V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

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Note2: High and low voltage values in extreme condition test are given by manufacturer.

Note3: This report is only for U-NII 5/6/7/8 test results.

Test frequency list:

WLAN_2.4G:

BW_20M	Channel	1	6	11
	Fre.(MHz)	2412	2437	2462
BW_40M	Channel	3	6	9
	Fre.(MHz)	2422	2437	2452

UNII-1 and UNII-2A:

BW_20M	Channel	36	40	44	48	52	56	60	64
	Fre.(MHz)	5180	5200	5220	5240	5260	5280	5300	5320
BW_40M	Channel	38		46		54		62	
	Fre.(MHz)	5190		5230		5270		5310	
BW_80M	Channel	42				58			
	Fre.(MHz)	5210				5290			
BW_160M	Channel	50							
	Fre.(MHz)	5250							

UNII-2C:

BW_20M	Channel	100	104	108	112	116	120	124	128	132	136	140
	Fre.(MHz)	5500	5520	5540	5560	5580	5600	5620	5640	5660	5680	5700
BW_40M	Channel	102		110		118		126		134		/
	Fre.(MHz)	5510		5550		5590		5630		5670		/
BW_80M	Channel	106				122				/		
	Fre.(MHz)	5530				5610						
BW_160M	Channel	114								/		
	Fre.(MHz)	5570										

Note: "/" Represents empty

UNII-3:

BW_20M	Channel	149	153	157	161	165
	Fre.(MHz)	5745	5765	5785	5805	5825
BW_40M	Channel	151		159		/
	Fre.(MHz)	5755		5795		
BW_80M	Channel	155				/
	Fre.(MHz)	5775				
BW_160M	Channel	/				/
	Fre.(MHz)	/				

Note: "/" Represents empty

WLAN_6G:

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		UNII-5			UNII-6			UNII-7			UNII-8		
BW_20M	Channel	1	45	93	97	105	113	117	149	181	185	209	233
	Fre.(MHz)	5955	6175	6415	6435	6475	6515	6535	6695	6855	6875	6995	7115
BW_40M	Channel	3	43	91	99	107	115	123	147	179	187	203	227
	Fre.(MHz)	5965	6165	6405	6445	6485	6525	6565	6685	6845	6885	6965	7085
BW_80M	Channel	7	39	87	103	/	/	119	151	183	199	215	/
	Fre.(MHz)	5985	6145	6385	6465	/	/	6545	6705	6865	6945	7025	/
BW_160M	Channel	15	47	79	111	/	/	143	175	/	207	/	/
	Fre.(MHz)	6025	6185	6345	6505	/	/	6665	6825	/	6985	/	/

Note1: CH115/119/183/111/175/187 includes cross frequency
 Note2: "/" Represents empty

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S1	SN:MP0622033CCC290	V1.01	V1.0.01	2022-03-04
S2	SN:MP0622033CCC308	V1.01	V1.0.01	2022-03-04

*EUT ID: is used to identify the test sample in the lab internally.

Technology	Band	Frequency range(MHz)	Support mode	Antenna gain ^{note2}	MIMO Tx function ^{note3}	Directional gain ^{note4}
WLAN	2.4G	2400-2483.5	802.11b/g/n(HT20/40)/ ax(HE20/40) ^{note1}	2.97dBi	2TX	b/g:2.97dBi n/ax:2.97dBi+10log(2)=5.98dBi
	5G	UNII 1: 5150MHz-5250MHz UNII 2A: 5250MHz-5350MHz UNII 2C: 5470MHz-5725MHz UNII 3: 5725MHz-5850MHz	802.11a/n(HT20/40)/ac (VHT20/40/80/160)/ax (HE20/40/80/160) ^{note1}	UNII 1: 3.50dBi UNII 2A:3.47dBi UNII 2C: 3.94dBi UNII 3: 3.52dBi	2TX	a:UNII 1: 3.50dBi a:UNII 2A:3.47dBi a:UNII 2C: 3.94dBi a:UNII 3: 3.52dBi n/ac/ax:UNII 1: 3.50dBi+10log(2)=6.51dBi n/ac/ax:UNII 2A:3.47dBi+10log(2)=6.48dBi n/ac/ax:UNII 2C:3.94dBi+10log(2)=6.95dBi n/ac/ax:UNII 3: 3.52dBi+10log(2)=6.53dBi
	6G	UNII 5: 5925MHz-6425MHz UNII 6: 6425MHz-6525MHz UNII 7: 6525MHz-6875MHz UNII 8: 6875MHz-7125MHz	802.11ax(HE20/40/80/ 160) ^{note1}	UNII 5: 3.99dBi UNII 6: 3.29dBi UNII 7: 3.95dBi UNII 8: 3.82dBi	2TX	UNII 5: 3.99dBi+10log(2)=7.00dBi UNII 6: 3.29dBi+10log(2)=6.30dBi UNII 7: 3.95dBi+10log(2)=6.96dBi UNII 8: 3.82dBi+10log(2)=6.83dBi

Note1: This device only supports full RU transmission.

Note2: Antenna gain data provided by the customer.ANT0 and ANT1 antennas have the same gain.

Note3:Only 802.11n/ac/ax supports MIMO.MIMO function don't support simultaneous CDD technology and Beamforming .

Note4:According to KDB 662911D01 Multiple Transmitter Output V02R01, If any transmit signals are correlated with each other, Directional gain = Gant + 10 log (Nant) dBi

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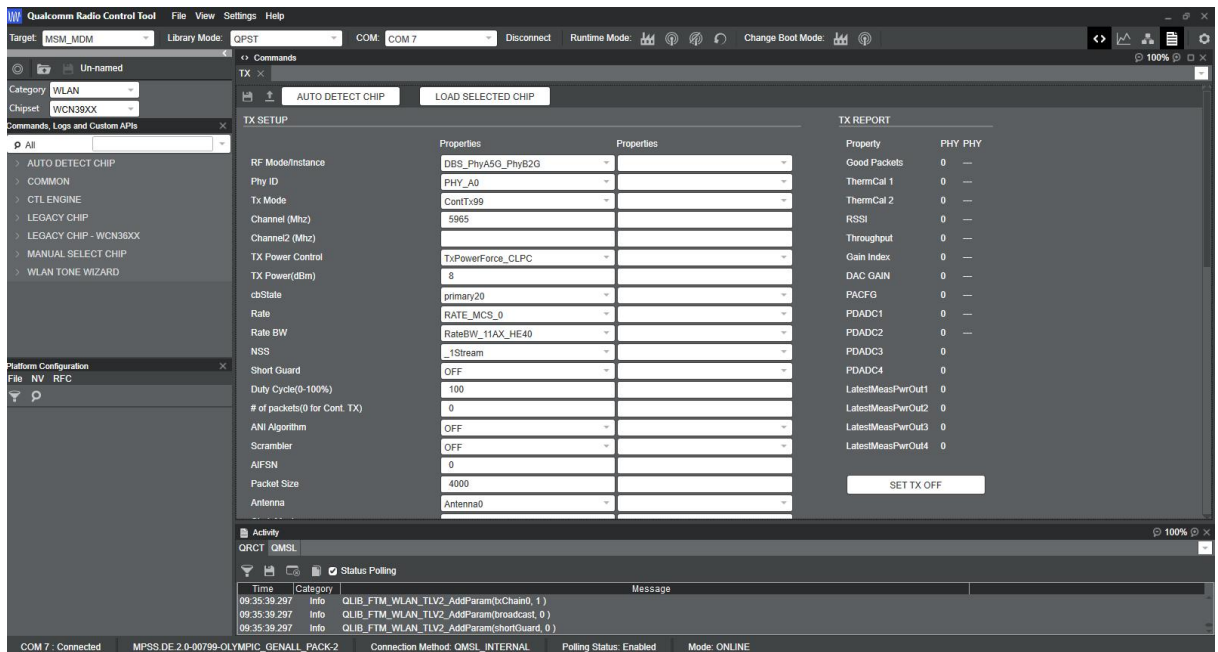
3.3. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	2.4GHz: 1.2 5GHz: 2.5 6GHz: 2.5

*AE ID: is used to identify the test sample in the lab internally.
dB*: is provided customer.

3.4. EUT Test RF Confagle Configuration

EUT uses tool to control emission measurement, Change power level, channel, rate and HT .11ax-HE40M/80M/160M transmitter power level set to 8. 11ax-HE20M transmitter power level set to 6.



3.5. Test software line loss compensation list

Frequency(MHz)	Cable loss(dB)
2400	1.2
5000	1.8
5800	2.0
6000	2.2
7000	2.5

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Note: The test line loss file consists of two parts: the cable line loss provided by the customer, see report 3.3RF cable for details; All cable losses used in system construction are detailed in this table. The test line loss file value was called by the testing software and has been compensated for in the test power test project and PSD test project.

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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart E	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	--
KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE 6 GHz (U-NII) DEVICES PART 15, SUBPART E	2021
KDB 987594 D01 U-NII 6GHz General Requirements v01r03	Part 15 Subpart E U-NII 6 GHz General Guidance Bands 5, 6, 7, 8	2022
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	2017
KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band	2013

Note1: KDB 987594/789033/662911 is not A2AL certified.

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	spectrum analyzer	N9030A	MY55410223	--	--	Keysight	2024-06-28
2	spectrum analyzer	N9030B	MY57140708	--	--	Keysight	2024-06-28

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2024-06-28
2	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2024-10-28
3	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2024-05-05
4	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2024-06-28
5	18GHz-26.5GHz Horn Antenna	DATE 1152	LM7127	--	--	ETS	2024-09-06
6	26.5GHz-40GHz Horn Antenna	DATE 1012	LM5945	--	--	ETS	2024-09-06
7	Loop Antenna	6502	00143163	--	--	ETS	2024-09-06
8	Preamplifier	SCU-08F1	08320027	--	--	R&S	--
9	Preamplifier	SCU-18F	180093	--	--	R&S	--

5.3. CE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESR 3	102477	03	3.48 SP2	R&S	2024-06-28
2	Artificial Main Network	ENV 216	102368	--	--	R&S	2024-05-27

5.4. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Fully anechoic chamber	FAC-5	--	TDK	2024-08-30
2	Semi-anechoic chamber	FAC-10	--	TDK	2024-08-28

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5.5. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

Anechoic chamber

Fully anechoic chamber by TDK.

5.6. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	EMC32	V10.20.10	--	R&S
3	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
FCC CFR Part 15.407	Fundamental Maximum EIRP	Pass
FCC CFR Part 15.407	Power Spectral Density	Pass
FCC CFR Part 15.407	99% Occupied Bandwidth	Pass
FCC CFR Part 15.407	26dB Occupied Bandwidth	Pass
FCC 47 CFR Part 15.407(b)	In-Band Emissions	Pass
FCC 47 CFR Part 15.407(b)	Band Edges Compliance (Radiated)	Pass
FCC 47 CFR Part 15.407(b)	Transmitter Spurious Emission-Radiated	Pass
FCC 47 CFR Part 15.407(b)	AC Powerline Conducted Emission (150kHz- 30MHz)	Pass
FCC 47 CFR Part 15.407(d)	Contention Based Protocol	Pass ^{note1}
FCC 47 CFR Part 15.203	Antenna requierment	Pass ^{note2}
<p>Note1: the detail test data see the report BL-EC2280547-602 by the BALUN Technology Co.Ltd</p> <p>Note2: The EUT have two RF welding disc interfaces for connecting external antennas and contain the two unique antenna connectors. Antenna type is Sector Glue Stick Antenna; Two antenna ports use same antennas. The max antenna gain is : 2.4G: 2.97dBi, UNII 1: 3.50dBi, UNII 2C: 3.94dBi, UNII 3: 3.52dBi, UNII 5: 3.99dBi, UNII 6: 3.29dBi, UNII 7: 3.95dBi, UNII 8: 3.82dBi; So this EUT Complies with the FCC section 15.203 antenna requirements, please refer to the internal photos.</p>		

6.2. Fundamental Maximum EIRP

Specifications:	FCC Part 15.407 (a)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit (dBm)
FCC Part 15.407 (a)	For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm

Note: Directional gain according to section 3.2 of this report

Band	802.11ax Directional gain (dBi)
UNII 5	7.00
UNII 6	6.30
UNII 7	6.96
UNII 8	6.83

Measurement Uncertainty:

Measurement Uncertainty	±0.50dB
-------------------------	---------

Test Procedure

The measurement is according to ANSI C63.10 clause 12.3.2.2

- Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- Set RBW = 1 MHz.
- Set VBW \geq 3 MHz.
- Number of points in sweep $\geq [2 \cdot \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $<$ 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or

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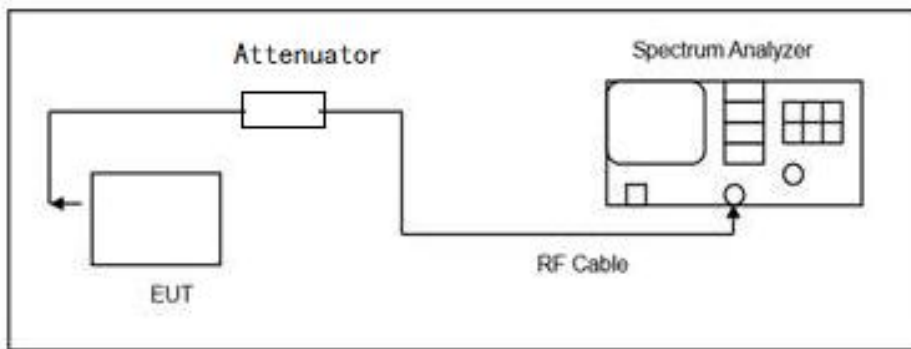
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at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

h) Trace average at least 100 traces in power averaging (rms) mode.

i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

Test block diagram:



Note1: Conducted RF Power+Antenna Gain(dBi)=EIRP

Note2: The test chart contains the duty cycle and power results. The power only reflects the power graph at the worst-case rate, numbered sequentially from pic1_Rms.



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Measurement Results:

Chain.0

Mode	RU Con.	Data Rate(Mbps)	Conducted												Conclusion
			Teat Result(dBm)												
			Ch1	Ch45	Ch93	Ch97	Ch105	Ch113	Ch117	Ch149	Ch181	Ch185	Ch209	Ch233	
802.11ax- HE20	Full	MCS 0	5.52	/	/	6.27	/	/	6.16	/	/	7.62	/	/	PASS
	Full	MCS 1	5.51	/	/	6.27	/	/	5.99	/	/	7.48	/	/	PASS
	Full	MCS 2	5.51	/	/	6.27	/	/	5.97	/	/	7.54	/	/	PASS
	Full	MCS 3	5.50	/	/	6.24	/	/	5.94	/	/	7.58	/	/	PASS
	Full	MCS 4	5.70	6.14	5.93	6.43	6.34	6.25	6.16	6.11	6.55	7.84	7.50	7.36	PASS
	Full	MCS 5	5.68	/	/	6.40	/	/	6.14	/	/	7.82	/	/	PASS
	Full	MCS 6	5.68	/	/	6.43	/	/	6.15	/	/	7.59	/	/	PASS
	Full	MCS 7	5.69	/	/	6.40	/	/	6.15	/	/	7.55	/	/	PASS
	Full	MCS 8	5.68	/	/	6.42	/	/	6.15	/	/	7.54	/	/	PASS
	Full	MCS 9	5.67	/	/	6.43	/	/	6.14	/	/	7.38	/	/	PASS
	Full	MCS 10	5.66	/	/	6.41	/	/	6.13	/	/	7.42	/	/	PASS
	Full	MCS 11	5.67	/	/	6.42	/	/	6.12	/	/	7.36	/	/	PASS
	Full	MCS 12	5.67	/	/	6.43	/	/	6.13	/	/	7.50	/	/	PASS
Full	MCS 13	5.66	/	/	6.40	/	/	6.13	/	/	7.30	/	/	PASS	

The data rate MCS4 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted												Conclusion
			Teat Result(dBm)												
			Ch3	Ch43	Ch91	Ch99	Ch107	Ch115	Ch123	Ch147	Ch179	Ch187	Ch203	Ch227	
802.11ax- HE40	Full	MCS 0	12.69	/	/	12.58	/	/	11.58	/	/	14.85	/	/	PASS
	Full	MCS 1	12.66	/	/	12.58	/	/	11.63	/	/	14.84	/	/	PASS
	Full	MCS 2	12.68	/	/	12.56	/	/	11.62	/	/	14.83	/	/	PASS
	Full	MCS 3	12.63	/	/	12.59	/	/	11.65	/	/	14.82	/	/	PASS
	Full	MCS 4	12.92	12.26	13.28	13.23	12.54	12.18	11.96	/	/	14.95	/	/	PASS
	Full	MCS 5	12.87	/	/	12.80	/	/	11.97	/	/	14.93	/	/	PASS
	Full	MCS 6	12.89	/	/	12.81	/	/	12.09	12.56	12.60	14.95	/	/	PASS
	Full	MCS 7	12.84	/	/	12.83	/	/	11.93	/	/	14.99	/	/	PASS
	Full	MCS 8	12.89	/	/	12.54	/	/	11.89	/	/	15.09	15.13	14.76	PASS
	Full	MCS 9	12.88	/	/	12.40	/	/	11.85	/	/	14.93	/	/	PASS
	Full	MCS 10	12.89	/	/	12.38	/	/	11.85	/	/	14.99	/	/	PASS
Full	MCS 11	12.88	/	/	12.38	/	/	11.82	/	/	14.95	/	/	PASS	

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	Full	MCS 12	12.07	/	/	12.36	/	/	11.81	/	/	14.95	/	/	PASS
	Full	MCS 13	12.87	/	/	12.40	/	/	11.84	/	/	14.97	/	/	PASS

The data rate MCS4, MCS6 and MCS8 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted Test Result(dBm)									Conclusion
			Ch7	Ch39	Ch87	Ch103	Ch119	Ch151	Ch183	Ch199	Ch215	
802.11ax-HE80	Full	MCS 0	12.71	/	/	12.51	13.55	/	/	14.70	/	PASS
	Full	MCS 1	12.70	/	/	12.53	13.57	/	/	14.71	/	PASS
	Full	MCS 2	12.71	/	/	12.51	13.53	/	/	14.67	/	PASS
	Full	MCS 3	12.71	/	/	12.56	13.53	/	/	14.69	/	PASS
	Full	MCS 4	12.82	/	/	12.69	13.71	/	/	14.84	/	PASS
	Full	MCS 5	12.84	/	/	12.70	13.70	/	/	14.84	/	PASS
	Full	MCS 6	12.88	/	/	12.72	13.72	/	/	14.87	/	PASS
	Full	MCS 7	12.85	/	/	12.85	13.71	/	/	14.86	/	PASS
	Full	MCS 8	12.86	/	/	13.11	13.72	/	/	14.87	/	PASS
	Full	MCS 9	13.17	13.63	13.74	13.18	13.89	13.72	13.51	14.84	/	PASS
	Full	MCS 10	12.88	/	/	13.08	13.73	/	/	14.86	/	PASS
	Full	MCS 11	12.89	/	/	13.10	13.60	/	/	14.88	13.42	PASS
	Full	MCS 12	12.89	/	/	13.05	13.64	/	/	14.86	/	PASS
	Full	MCS 13	12.76	/	/	13.10	13.64	/	/	14.87	/	PASS

The data rate MCS8, MCS9 and MCS11 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted Test Result(dBm)							Conclusion
			Ch15	Ch47	Ch79	Ch111	Ch143	Ch175	Ch207	
802.11ax-H E160	Full	MCS 0	14.30	/	/	14.47	12.90	/	14.21	PASS
	Full	MCS 1	14.30	/	/	14.44	12.90	/	14.13	PASS
	Full	MCS 2	14.25	/	/	14.40	12.90	/	14.11	PASS
	Full	MCS 3	14.28	/	/	14.44	12.91	/	14.11	PASS
	Full	MCS 4	14.20	/	/	14.97	13.23	/	14.46	PASS
	Full	MCS 5	14.20	/	/	14.75	13.24	/	14.46	PASS
	Full	MCS 6	14.28	/	/	14.74	13.26	/	14.44	PASS
	Full	MCS 7	14.28	/	/	14.71	13.24	/	14.43	PASS
	Full	MCS 8	14.27	/	/	14.72	13.24	/	14.38	PASS
	Full	MCS 9	14.32	13.04	13.50	14.74	13.29	/	14.40	PASS
	Full	MCS 10	14.23	/	/	14.72	13.20	/	14.39	PASS
	Full	MCS 11	14.25	/	/	14.72	13.32	/	14.36	PASS

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	Full	MCS 12	14.25	/	/	14.70	13.37	/	14.37	PASS
	Full	MCS 13	14.26	/	/	14.65	13.58	12.15	14.76	PASS

The data rate MCS4, MCS9 and MCS13 are selected as worse condition, and the following cases are performed with this condition.

Chain.1

Mode	RU Con.	Data Rate(Mbps)	Conducted												Conclusion
			Teat Result(dBm)												
			Ch1	Ch45	Ch93	Ch97	Ch105	Ch113	Ch117	Ch149	Ch181	Ch185	Ch209	Ch233	
802.11ax-HE20	Full	MCS 0	6.65	/	/	6.27	/	/	6.27	/	/	7.41	/	/	PASS
	Full	MCS 1	6.66	/	/	6.26	/	/	6.26	/	/	7.33	/	/	PASS
	Full	MCS 2	6.63	/	/	6.29	/	/	6.27	/	/	7.29	/	/	PASS
	Full	MCS 3	6.66	/	/	6.26	/	/	6.29	/	/	7.49	/	/	PASS
	Full	MCS 4	6.86	8.17	6.72	6.47	6.84	6.69	6.44	7.30	6.98	7.49	/	/	PASS
	Full	MCS 5	6.82	/	/	6.45	/	/	6.40	/	/	7.57	/	/	PASS
	Full	MCS 6	6.82	/	/	6.43	/	/	6.43	/	/	7.66	/	/	PASS
	Full	MCS 7	6.81	/	/	6.44	/	/	6.43	/	/	7.67	/	/	PASS
	Full	MCS 8	6.81	/	/	6.44	/	/	6.40	/	/	7.71	8.20	7.81	PASS
	Full	MCS 9	6.84	/	/	6.46	/	/	6.42	/	/	7.62	/	/	PASS
	Full	MCS 10	6.81	/	/	6.46	/	/	6.39	/	/	7.58	/	/	PASS
	Full	MCS 11	6.83	/	/	6.45	/	/	6.42	/	/	7.57	/	/	PASS
	Full	MCS 12	6.84	/	/	6.44	/	/	6.41	/	/	7.62	/	/	PASS
Full	MCS 13	6.79	/	/	6.43	/	/	6.39	/	/	7.56	/	/	PASS	

The data rate MCS4, MCS9 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted												Conclusion
			Teat Result(dBm)												
			Ch3	Ch43	Ch91	Ch99	Ch107	Ch115	Ch123	Ch147	Ch179	Ch187	Ch203	Ch227	
802.11ax-H E40	Full	MCS 0	10.87	/	/	11.29	/	/	10.93	/	/	12.75	/	/	PASS
	Full	MCS 1	11.13	/	/	11.32	/	/	10.96	/	/	12.74	/	/	PASS
	Full	MCS 2	11.12	/	/	11.33	/	/	10.95	/	/	12.74	/	/	PASS
	Full	MCS 3	11.14	/	/	11.31	/	/	10.91	/	/	12.73	/	/	PASS
	Full	MCS 4	11.33	11.51	12.34	11.91	11.17	10.78	11.11	/	/	12.89	/	/	PASS
	Full	MCS 5	11.29	/	/	11.50	/	/	11.11	/	/	12.87	/	/	PASS
	Full	MCS 6	11.27	/	/	11.49	/	/	11.28	12.11	11.22	12.88	/	/	PASS
	Full	MCS 7	11.27	/	/	11.51	/	/	11.13	/	/	12.88	/	/	PASS
	Full	MCS 8	11.31	/	/	11.49	/	/	11.12	/	/	12.93	12.64	12.87	PASS
	Full	MCS 9	11.27	/	/	11.47	/	/	11.12	/	/	12.89	/	/	PASS
	Full	MCS 10	11.25	/	/	11.46	/	/	11.11	/	/	12.91	/	/	PASS

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	Full	MCS 11	11.22	/	/	11.49	/	/	11.12	/	/	12.92	/	/	PASS
	Full	MCS 12	11.24	/	/	11.41	/	/	11.13	/	/	12.88	/	/	PASS
	Full	MCS 13	11.20	/	/	11.42	/	/	11.11	/	/	12.93	/	/	PASS

The data rate MCS4, MCS6 and MCS8 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted Test Result(dBm)									Conclusion
			Ch7	Ch39	Ch87	Ch103	Ch119	Ch151	Ch183	Ch199	Ch215	
802.11ax-HE 80	Full	MCS 0	12.80	/	/	12.02	12.47	/	/	12.64	/	PASS
	Full	MCS 1	12.81	/	/	12.00	12.53	/	/	12.64	/	PASS
	Full	MCS 2	12.79	/	/	12.02	12.49	/	/	12.62	/	PASS
	Full	MCS 3	12.82	/	/	12.02	12.67	/	/	12.65	/	PASS
	Full	MCS 4	12.98	/	/	12.20	12.69	/	/	12.81	/	PASS
	Full	MCS 5	12.93	/	/	12.19	12.66	/	/	12.79	/	PASS
	Full	MCS 6	12.97	/	/	12.22	12.63	/	/	12.81	/	PASS
	Full	MCS 7	12.97	/	/	12.23	12.62	/	/	12.80	/	PASS
	Full	MCS 8	13.00	/	/	12.25	12.62	/	/	12.80	/	PASS
	Full	MCS 9	13.36	12.38	12.10	12.33	12.76	12.43	12.37	12.81	/	PASS
	Full	MCS 10	13.01	/	/	12.21	12.62	/	/	12.80	/	PASS
	Full	MCS 11	13.02	/	/	12.22	12.68	/	/	13.16	12.96	PASS
	Full	MCS 12	13.00	/	/	12.22	12.62	/	/	12.78	/	PASS
Full	MCS 13	12.99	/	/	12.25	12.65	/	/	12.81	/	PASS	

The data rate MCS9 and MCS11 are selected as worse condition, and the following cases are performed with this condition.

Mode	RU Con.	Data Rate(Mbps)	Conducted Test Result(dBm)							Conclusion
			Ch15	Ch47	Ch79	Ch111	Ch143	Ch175	Ch207	
802.11ax-HE160	Full	MCS 0	13.52	/	/	12.83	11.27	/	12.06	PASS
	Full	MCS 1	13.51	/	/	12.77	11.22	/	12.05	PASS
	Full	MCS 2	13.48	/	/	12.69	11.25	/	12.06	PASS
	Full	MCS 3	13.46	/	/	12.72	11.85	/	12.04	PASS
	Full	MCS 4	13.53	/	/	13.02	12.16	/	12.49	PASS
	Full	MCS 5	13.56	/	/	13.01	12.14	/	12.52	PASS
	Full	MCS 6	13.52	/	/	13.00	12.15	/	12.53	PASS
	Full	MCS 7	13.54	/	/	12.98	12.17	/	12.51	PASS
	Full	MCS 8	13.50	/	/	12.99	12.18	/	12.53	PASS
	Full	MCS 9	13.58	13.04	13.50	13.00	12.19	/	12.53	PASS
	Full	MCS 10	13.54	/	/	12.92	12.16	/	12.50	PASS
	Full	MCS 11	13.57	/	/	12.92	12.17	/	12.52	PASS
Full	MCS 12	13.57	/	/	12.88	12.18	/	12.50	PASS	

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	Full	MCS 13	13.50	/	/	12.84	12.38	12.15	12.77	PASS
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The data rate MCS4, MCS9 and MCS13 are selected as worse condition, and the following cases are performed with this condition.

MIMO

UNII-5									
Mode	Ch	RU Con.	Conducted			DG (dBi)		EIRP Power (dBm)	Conclusion
			Power	Test Result (dBm)		Chain0	Chain1		
			Chain0	Chain1	SUM				
802.11ax-HE20	1	Full	5.70	6.86	9.33	7.00	16.33	PASS	
802.11ax-HE20	45	Full	6.14	8.17	10.28		17.28	PASS	
802.11ax-HE20	93	Full	5.93	6.72	9.35		16.35	PASS	
802.11ax-HE40	3	Full	12.92	11.33	15.21		22.21	PASS	
802.11ax-HE40	43	Full	12.26	11.51	14.91		21.91	PASS	
802.11ax-HE40	91	Full	13.28	12.34	15.85		22.85	PASS	
802.11ax-HE80	7	Full	13.17	13.36	16.28		23.28	PASS	
802.11ax-HE80	39	Full	13.63	12.38	16.06		23.06	PASS	
802.11ax-HE80	87	Full	13.74	12.10	16.01		23.01	PASS	
802.11ax-HE160	15	Full	14.32	13.58	16.98		23.98	PASS	
802.11ax-HE160	47	Full	13.04	13.04	16.05		23.05	PASS	
802.11ax-HE160	79	Full	13.50	13.50	16.51		23.51	PASS	

UNII-6									
Mode	Ch	RU Con.	Conducted			DG (dBi)		EIRP Power (dBm)	Conclusion
			Power	Test Result (dBm)		Chain0	Chain1		
			Chain0	Chain1	SUM				
802.11ax-HE20	97	Full	6.43	6.47	9.46	6.30	15.76	PASS	
802.11ax-HE20	105	Full	6.34	6.84	9.61		15.91	PASS	
802.11ax-HE20	113	Full	6.25	6.69	9.49		15.79	PASS	
802.11ax-HE40	99	Full	13.23	11.91	15.63		21.93	PASS	
802.11ax-HE40	107	Full	12.54	11.17	14.92		21.22	PASS	
802.11ax-HE40	115	Full	12.18	10.78	14.55		20.85	PASS	
802.11ax-HE80	103	Full	13.18	12.33	15.79		22.09	PASS	
802.11ax-HE160	111	Full	14.97	13.02	17.11		23.41	PASS	

UNII-7									
Mode	Ch	RU Con.	Conducted			DG (dBi)		EIRP Power (dBm)	Conclusion
			Power	Test Result (dBm)		Chain0	Chain1		
			Chain0	Chain1	SUM				

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802.11ax-HE20	117	Full	6.16	6.44	9.31	6.96	16.27	PASS
802.11ax-HE20	149	Full	6.11	7.30	9.76		16.72	PASS
802.11ax-HE20	181	Full	6.55	6.98	9.78		16.74	PASS
802.11ax-HE40	123	Full	12.09	11.28	14.71		21.67	PASS
802.11ax-HE40	147	Full	12.56	12.11	15.35		22.31	PASS
802.11ax-HE40	179	Full	12.60	11.22	14.97		21.93	PASS
802.11ax-HE80	119	Full	13.89	12.76	16.37		23.33	PASS
802.11ax-HE80	151	Full	13.72	12.43	16.13		23.09	PASS
802.11ax-HE80	183	Full	13.51	12.37	15.99		22.95	PASS
802.11ax-HE160	143	Full	13.58	12.38	16.03		22.99	PASS
802.11ax-HE160	175	Full	12.15	12.15	15.16		22.12	PASS

UNII-8									
Mode	Ch	RU Con.	Conducted			DG		EIRP Power (dBm)	Conclusion
			Power	Test Result (dBm)		(dBi)			
				Chain0	Chain1	SUM	Chain0		
802.11ax-HE20	185	Full	7.84	7.71	10.79	6.83	17.62	PASS	
802.11ax-HE20	209	Full	7.50	8.20	10.87		17.70	PASS	
802.11ax-HE20	233	Full	7.36	7.81	10.60		17.43	PASS	
802.11ax-HE40	187	Full	15.09	12.93	17.15		23.98	PASS	
802.11ax-HE40	203	Full	15.13	12.64	17.07		23.90	PASS	
802.11ax-HE40	227	Full	14.76	12.87	16.93		23.76	PASS	
802.11ax-HE80	199	Full	14.88	13.16	17.11		23.94	PASS	
802.11ax-HE80	215	Full	13.42	12.96	16.21		23.04	PASS	
802.11ax-HE160	207	Full	14.76	12.77	16.89		23.72	PASS	

Test Picture as below:

Duty cycle:

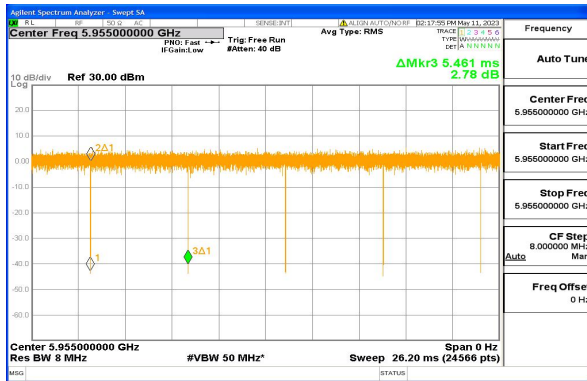
Mode	UNII5	UNII6	UNII7	UNII8
11ax-HE20	>98%	>98%	>98%	>98%
11ax-HE40	>98%	>98%	>98%	>98%
11ax-HE80	>98%	>98%	>98%	>98%
11ax-HE160	>98%	>98%	>98%	>98%

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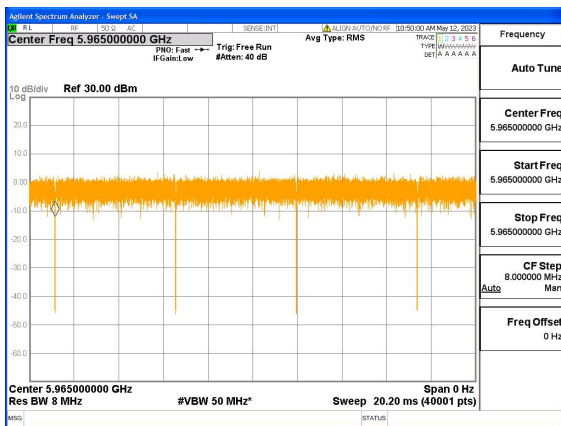
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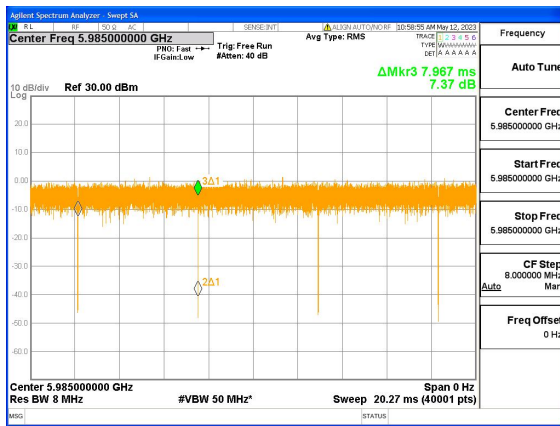
Report No.: I22W00019-WiFi RF-6E-Rev6



UNII5-11ax-HE20



UNII5-11ax-HE40



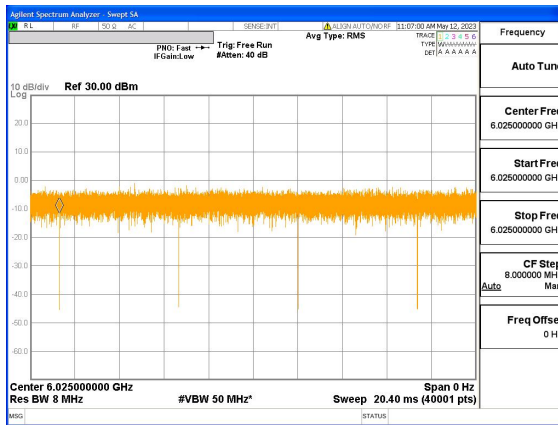
UNII5-11ax-HE80

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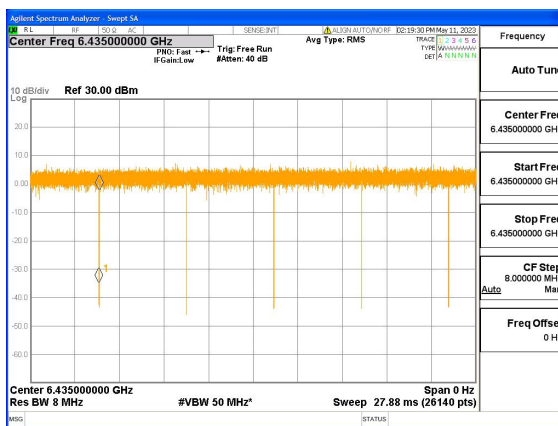
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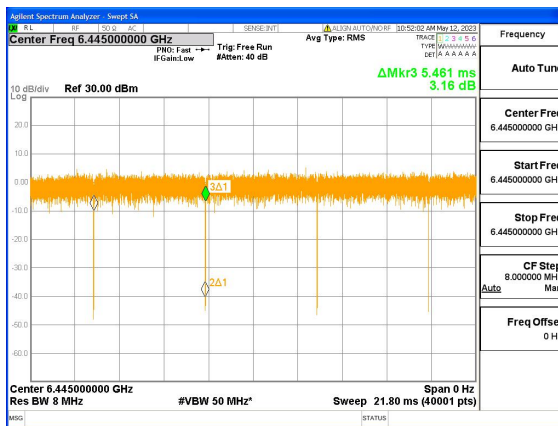
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UNII5-11ax-HE160



UNII6-11ax-HE20



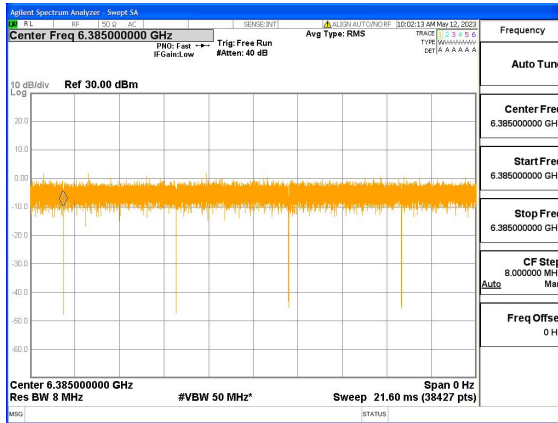
UNII6-11ax-HE40

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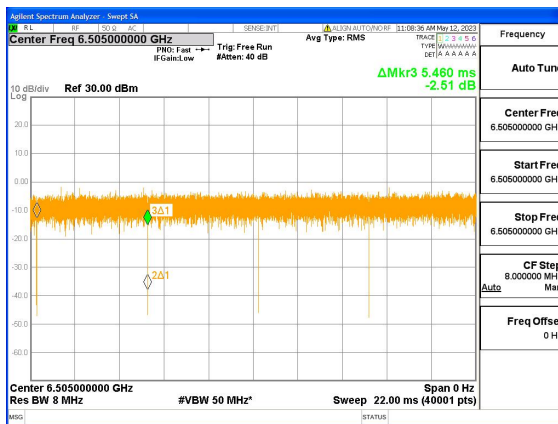
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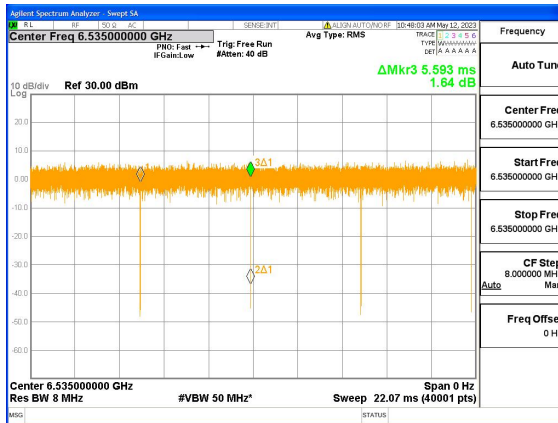
Report No.: I22W00019-WiFi RF-6E-Rev6



UNII6-11ax-HE80



UNII6-11ax-HE160



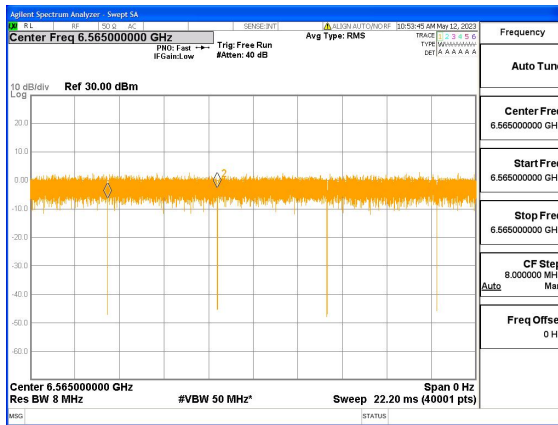
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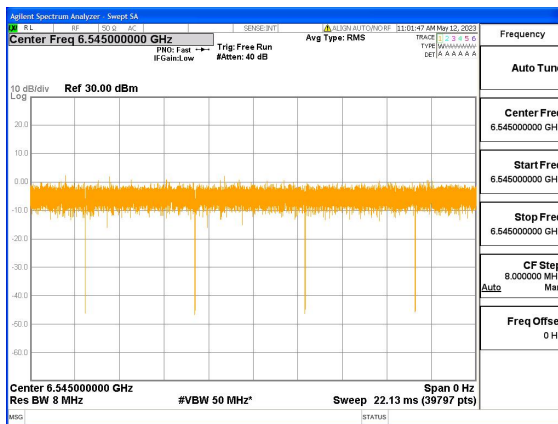
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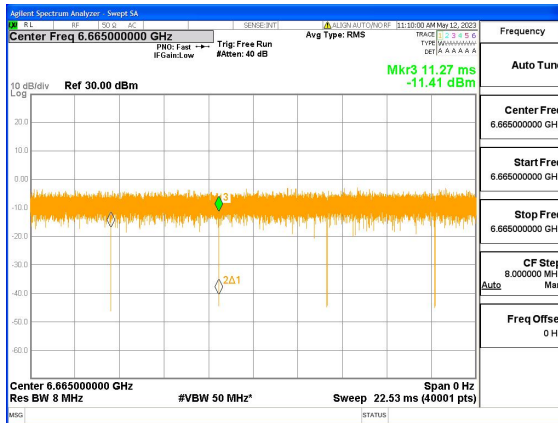
Report No.: I22W00019-WiFi RF-6E-Rev6



UNII7-11ax-HE40



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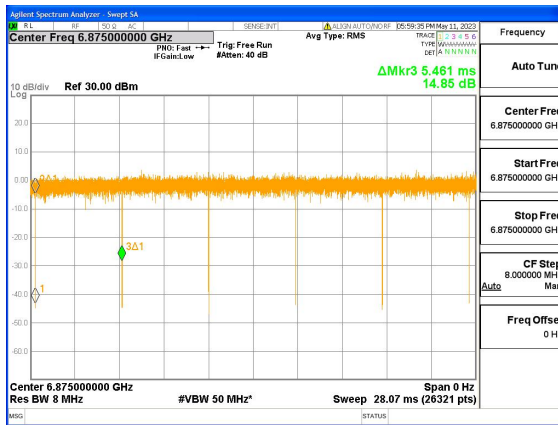
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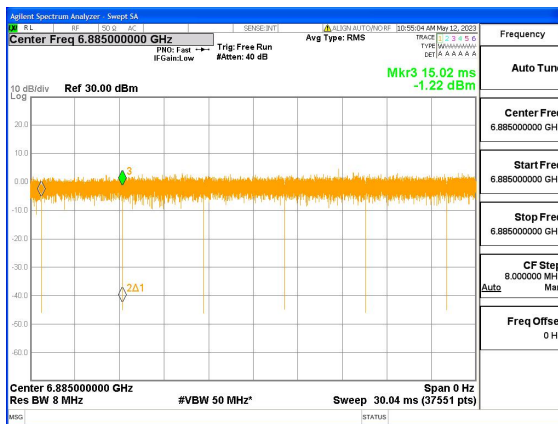
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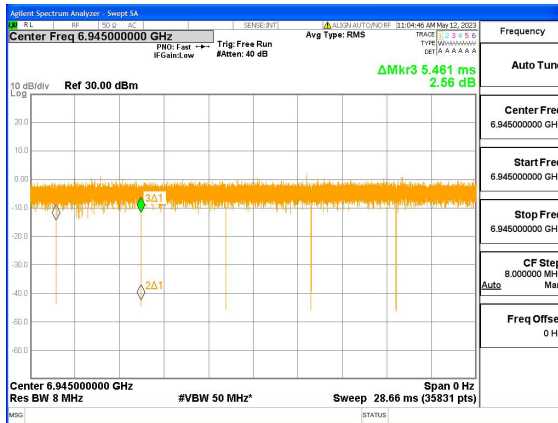
Report No.: I22W00019-WiFi RF-6E-Rev6



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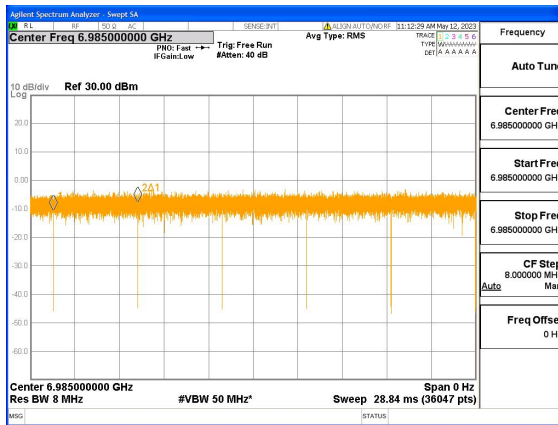
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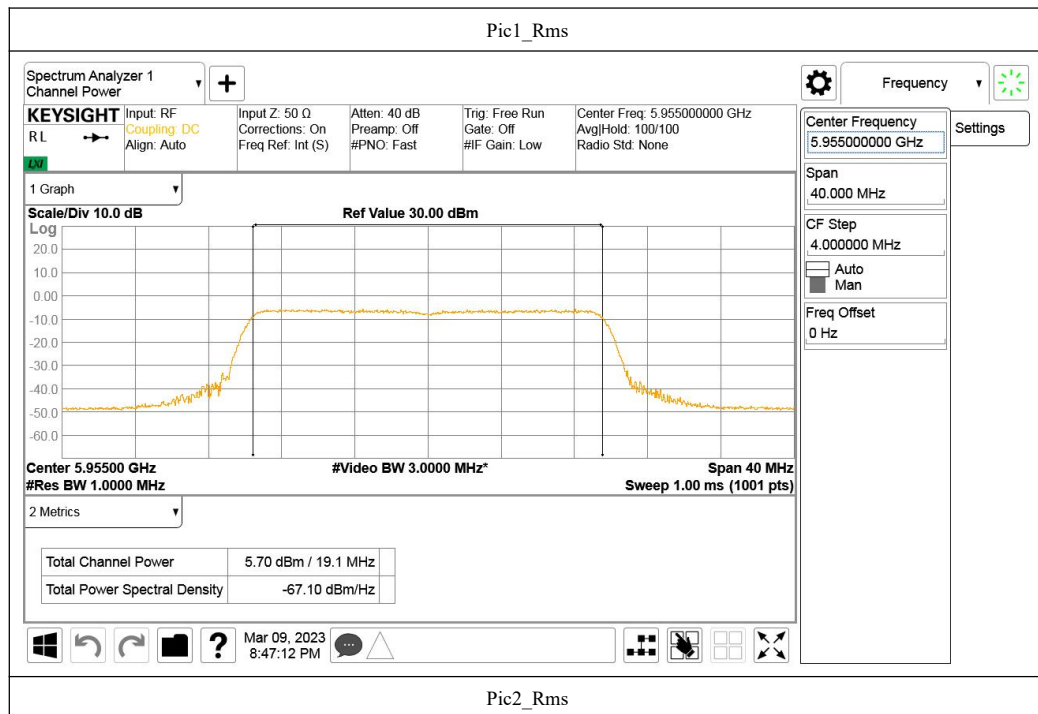
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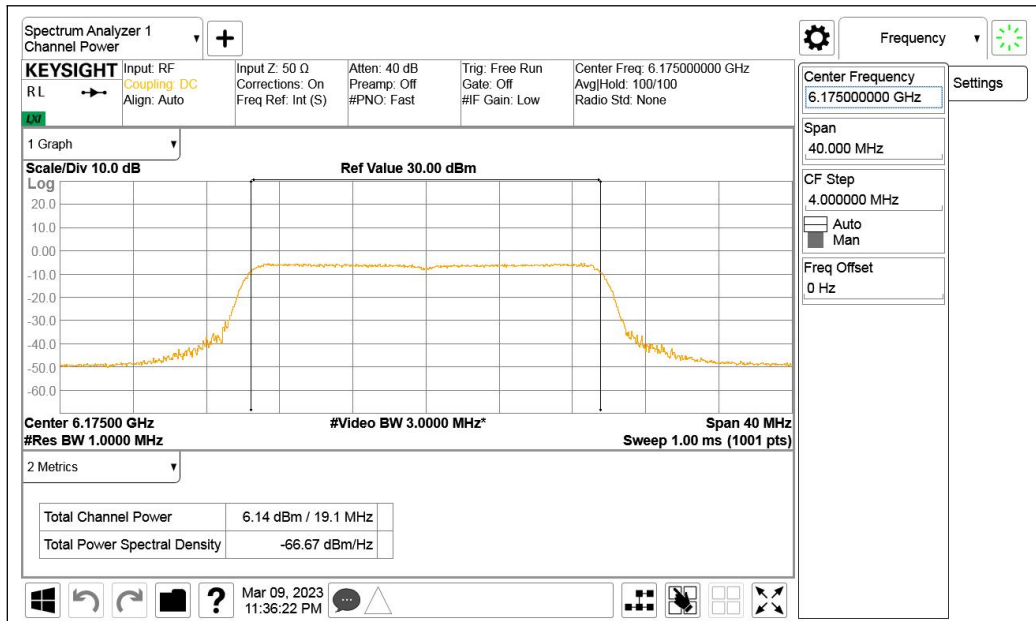
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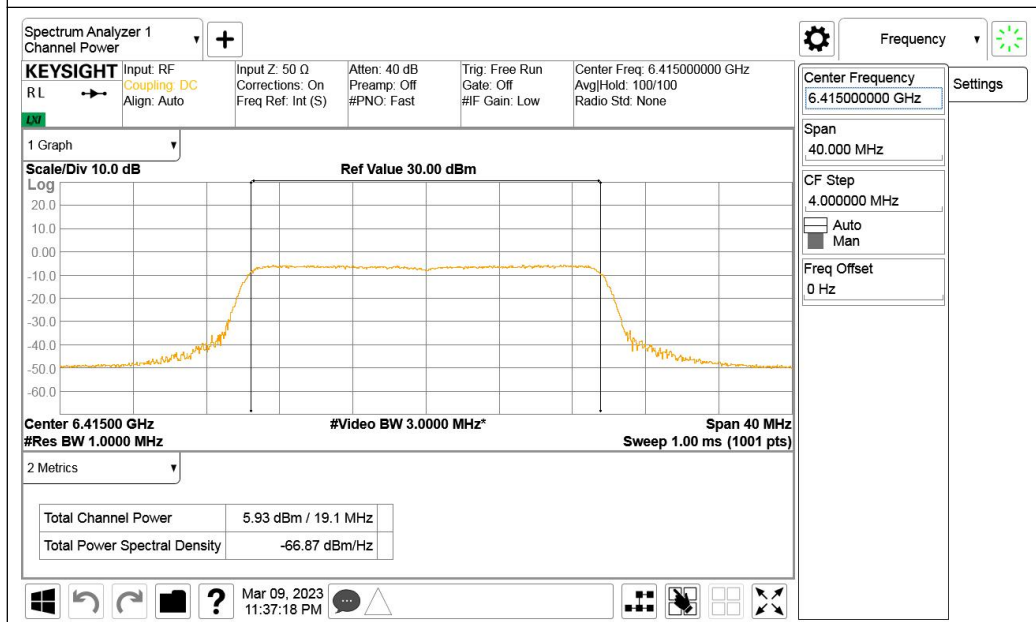


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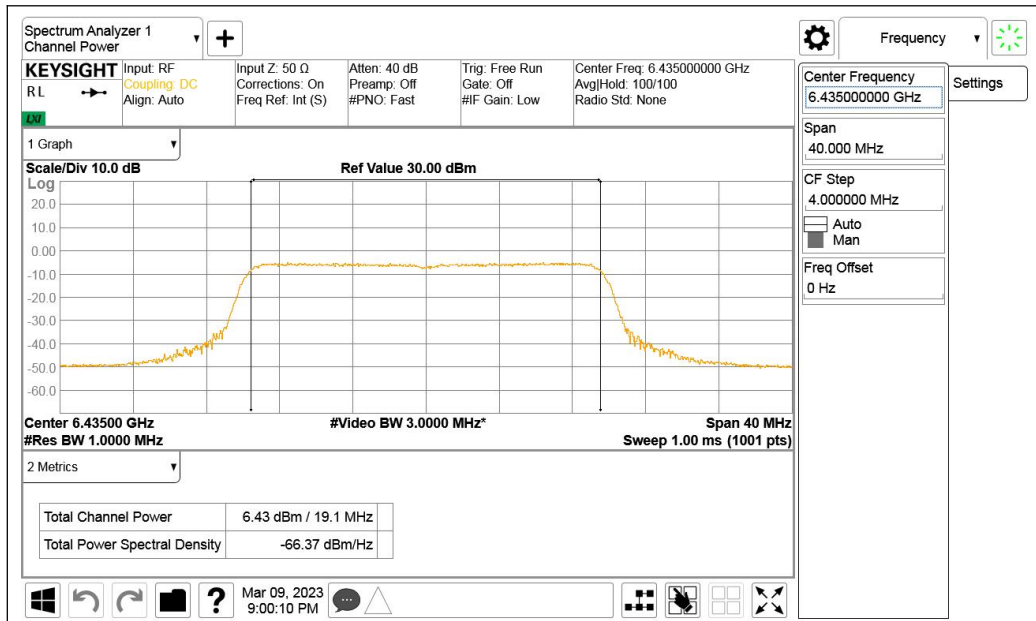
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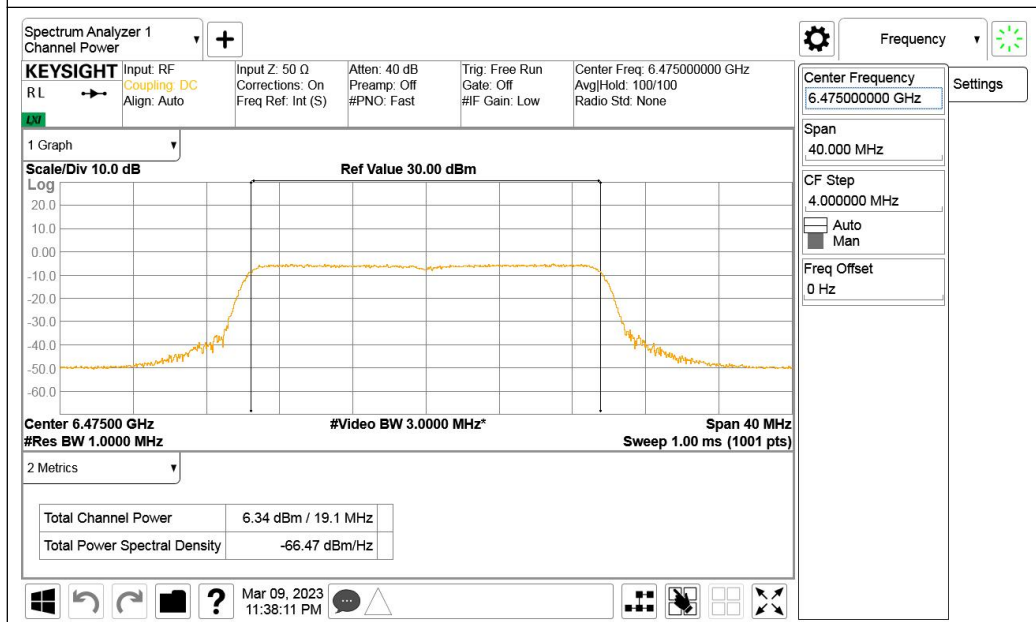
Pic4_Rms

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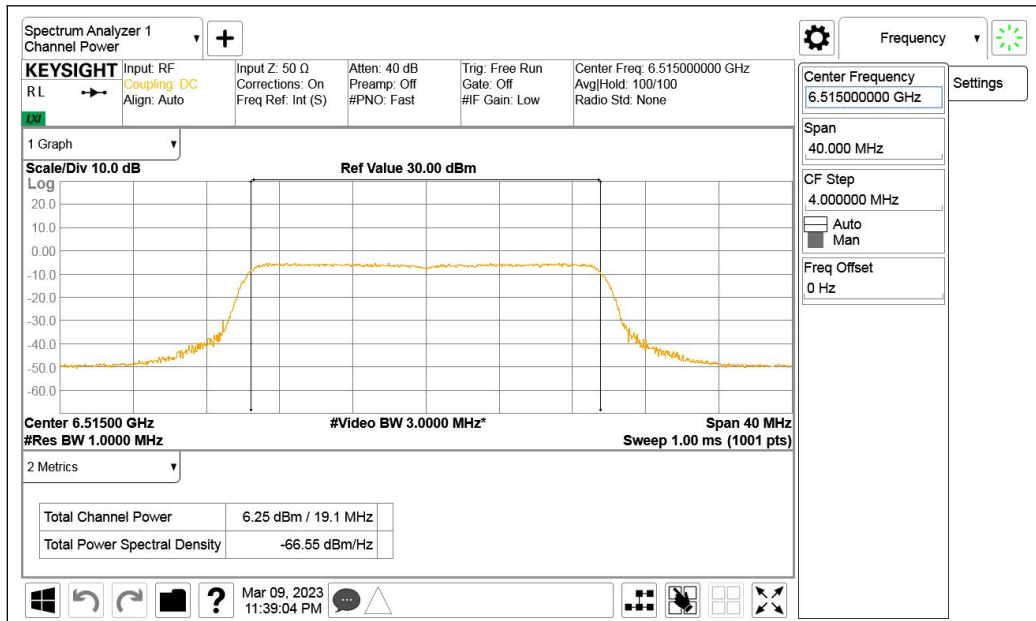
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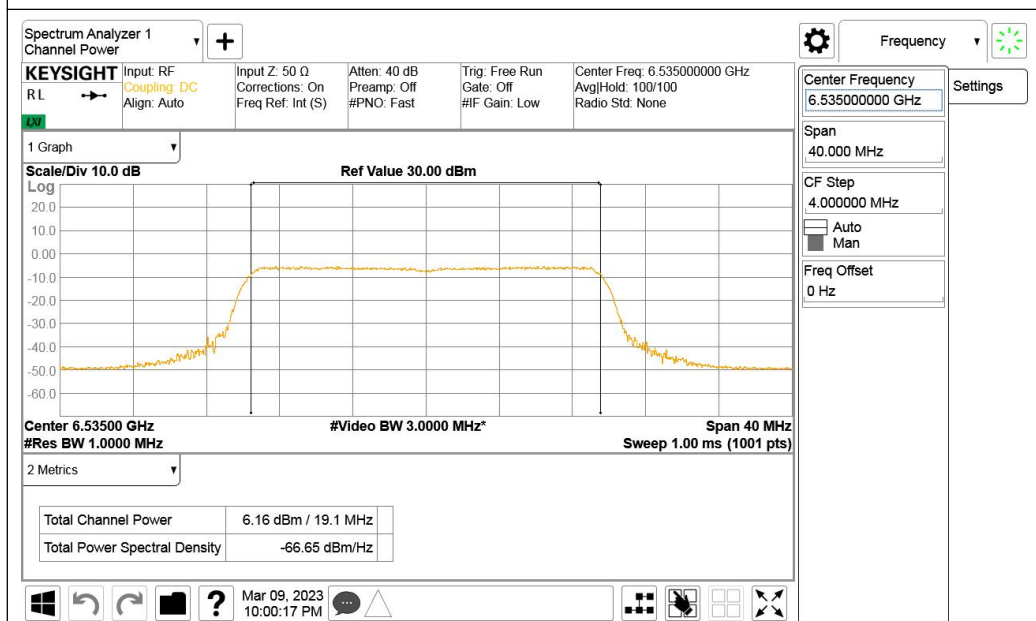
pic6_Rms

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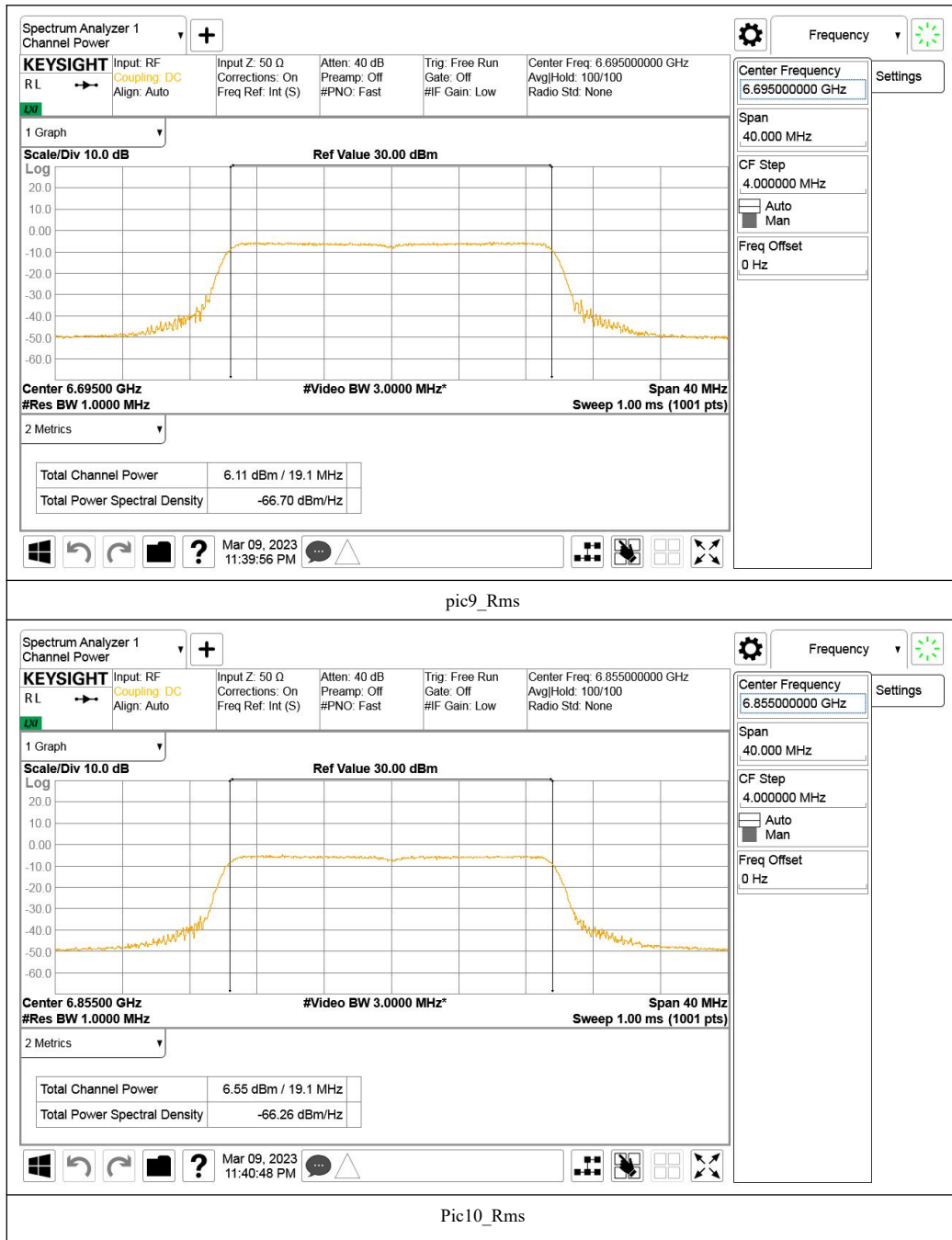
Pic7_Rms



Pic8_Rms

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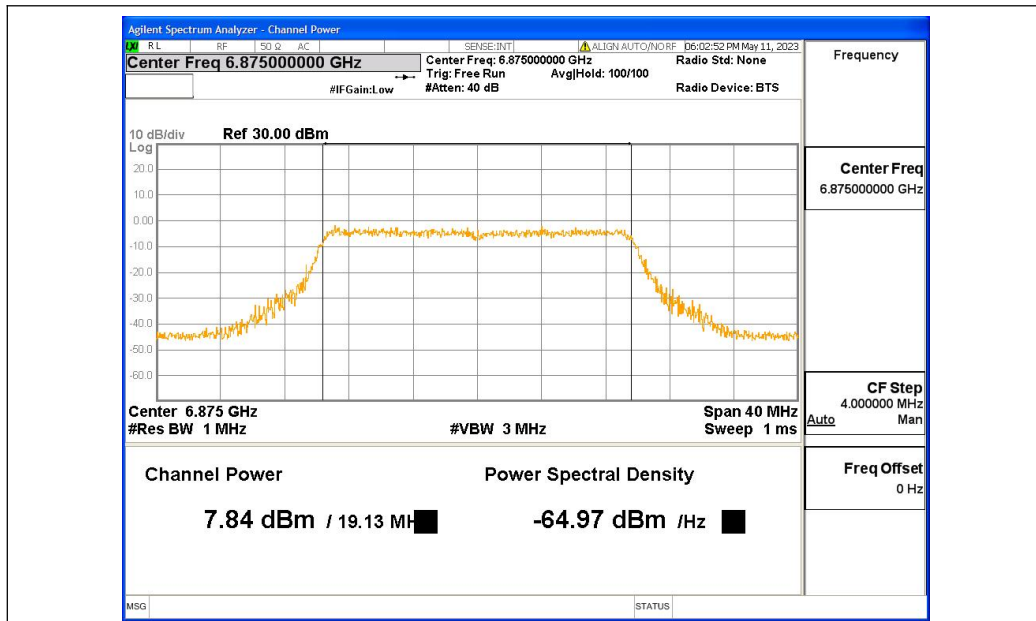


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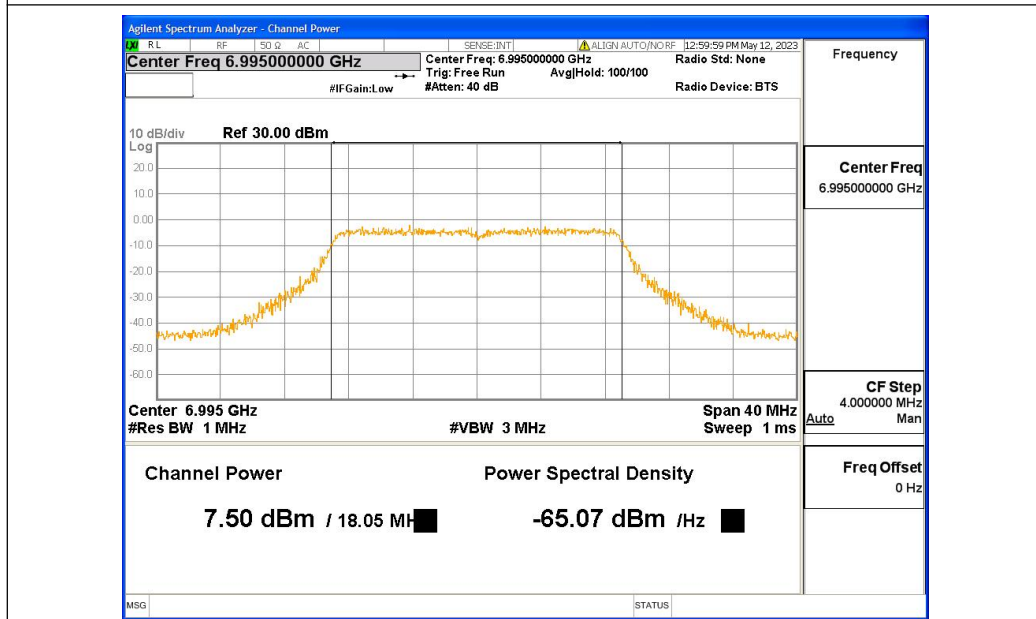
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Pic11_Rms



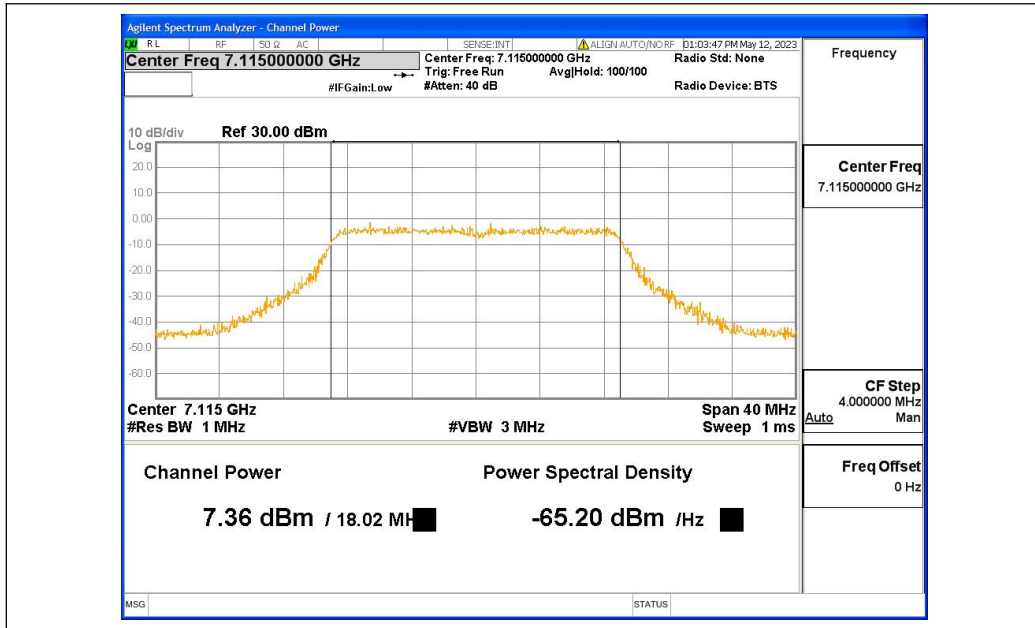
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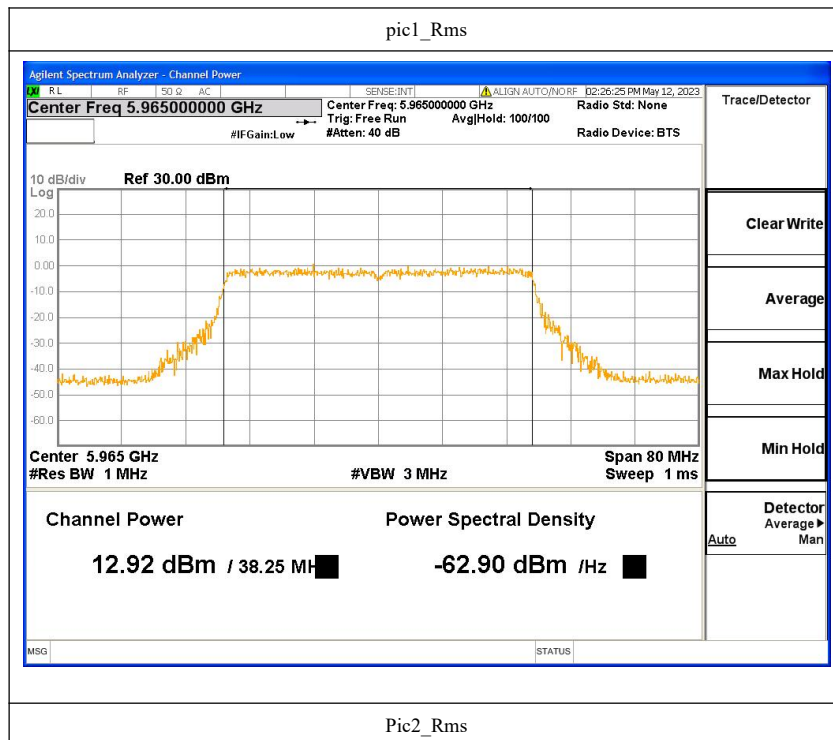
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11ax-HE40:



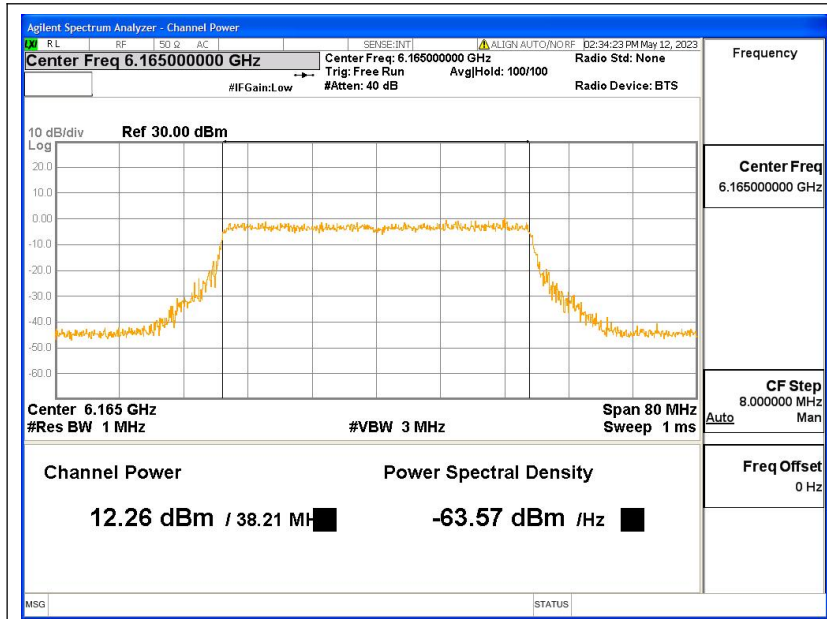
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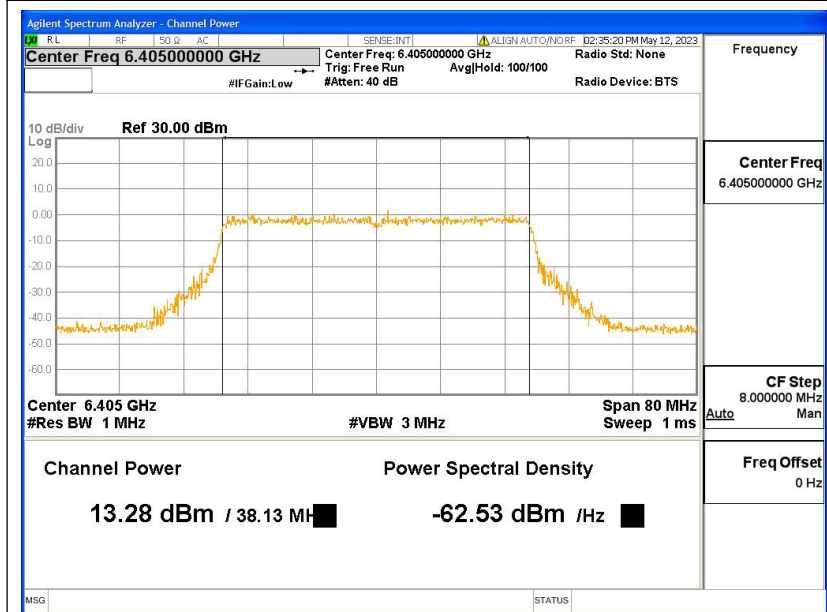
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Pic3_Rms



Pic4_Rms

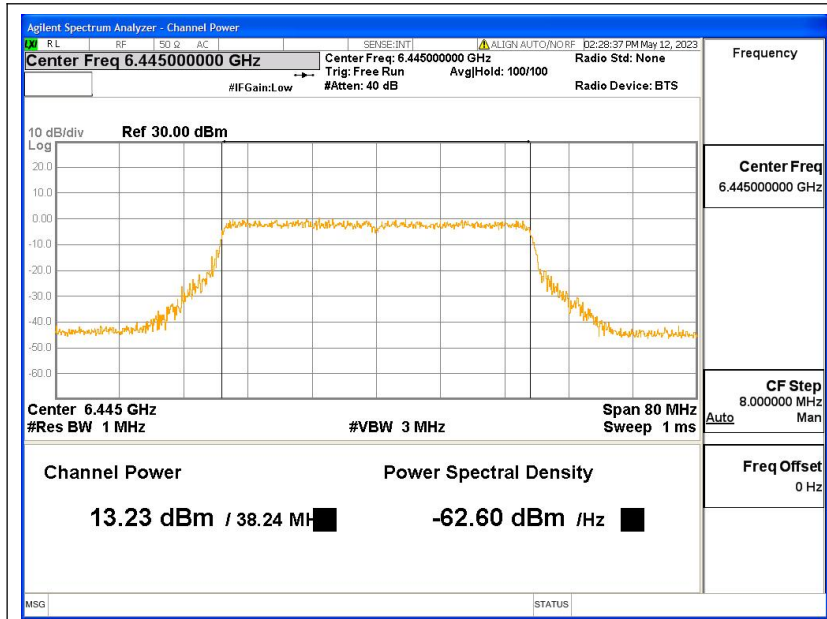
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Tel: 0086-23-88069965

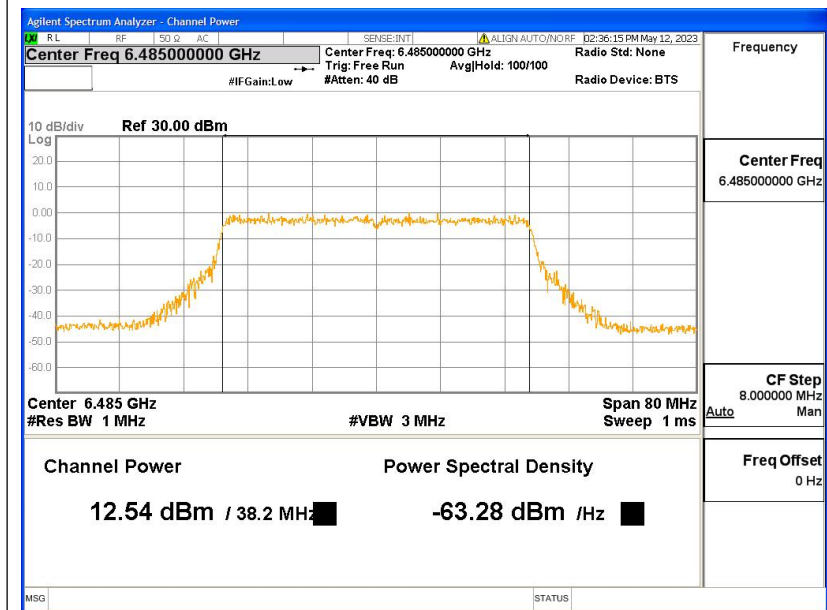
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Pic5_Rms



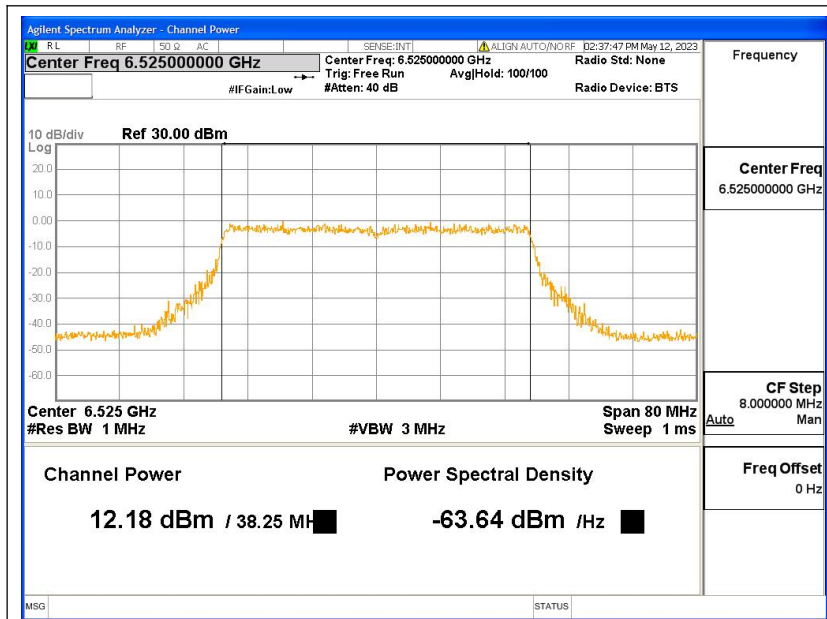
Pic6_Rms

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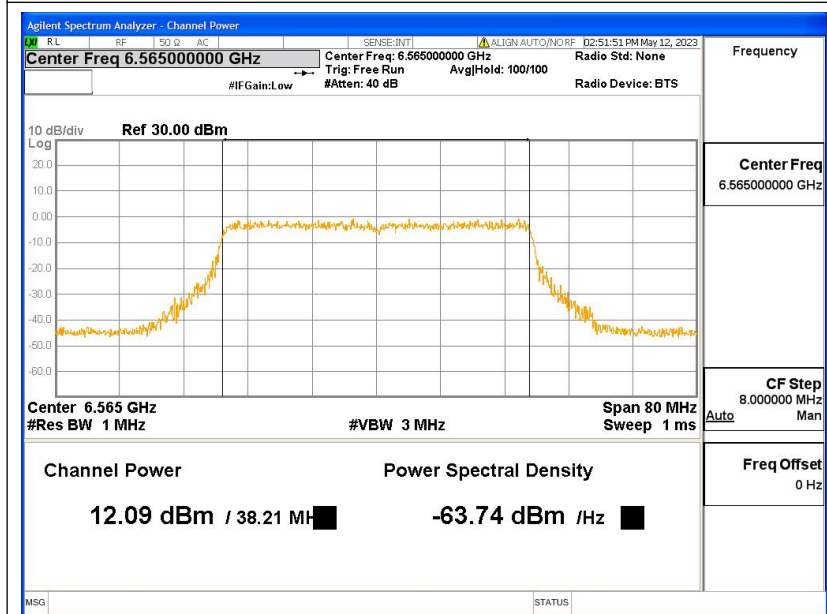
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Pic7_Rms



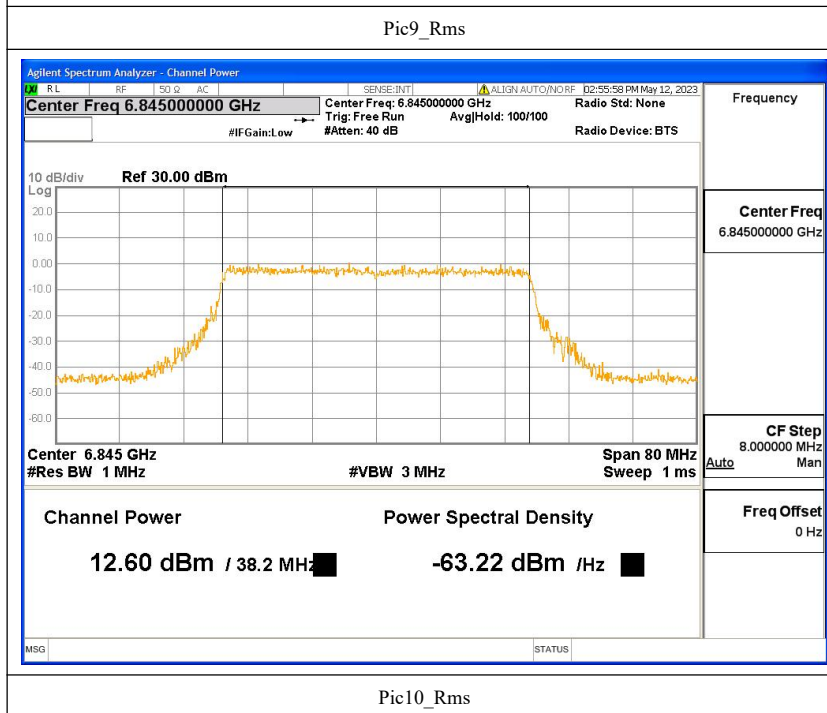
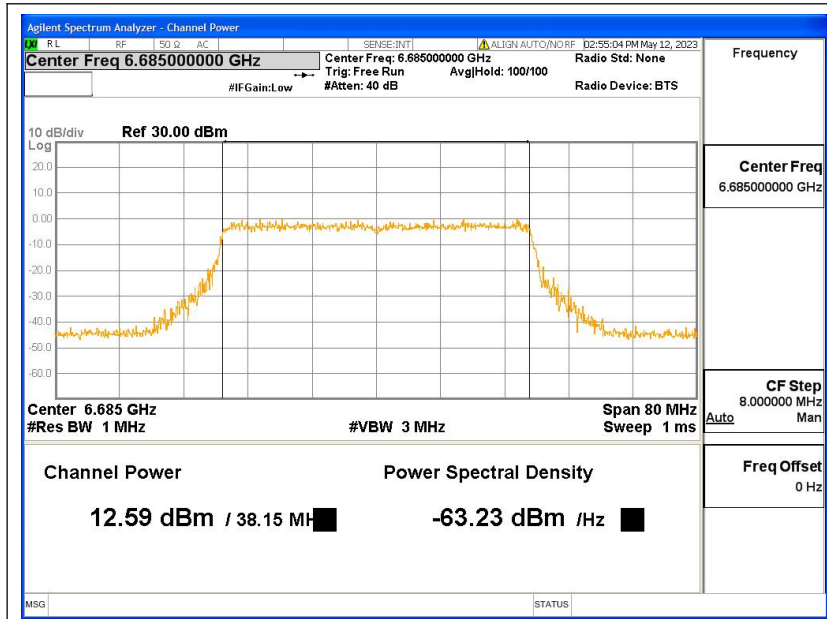
Pic8_Rms

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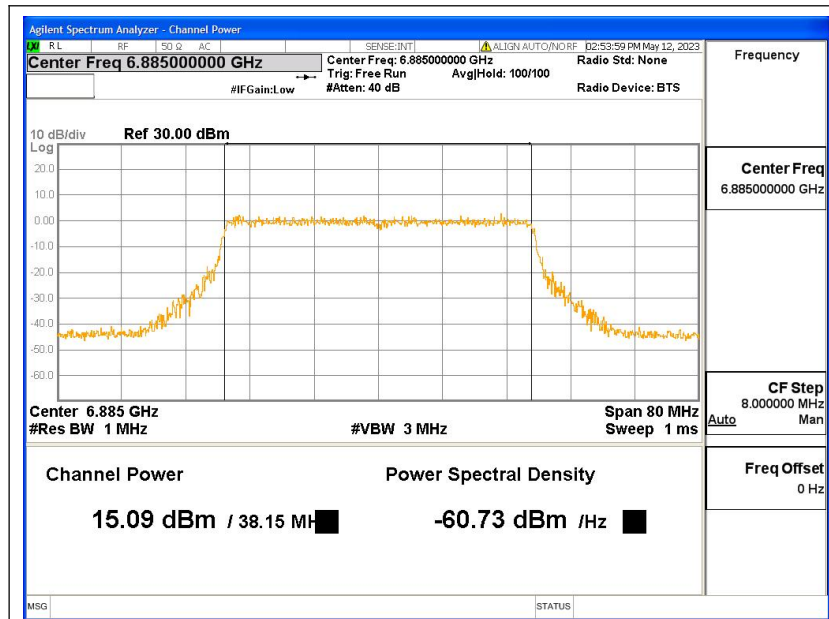


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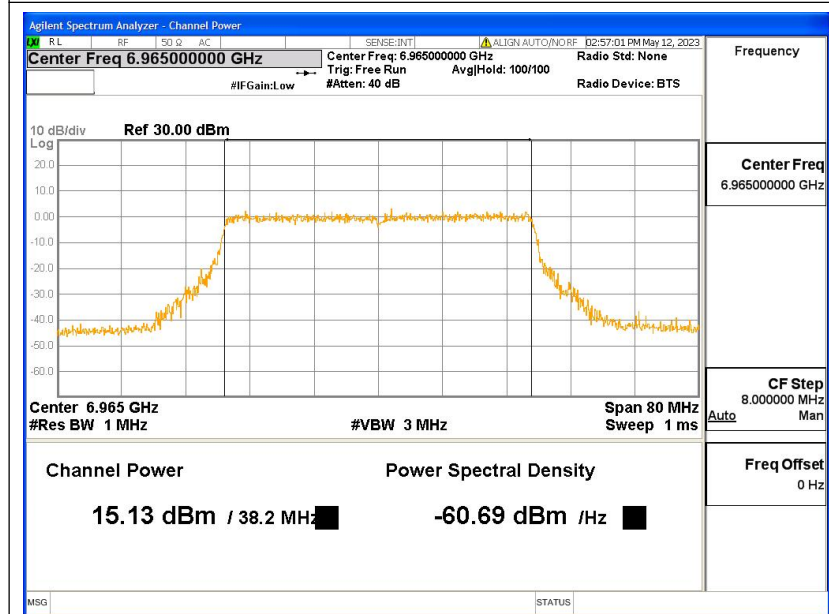
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pic11_Rms



pic12_Rms

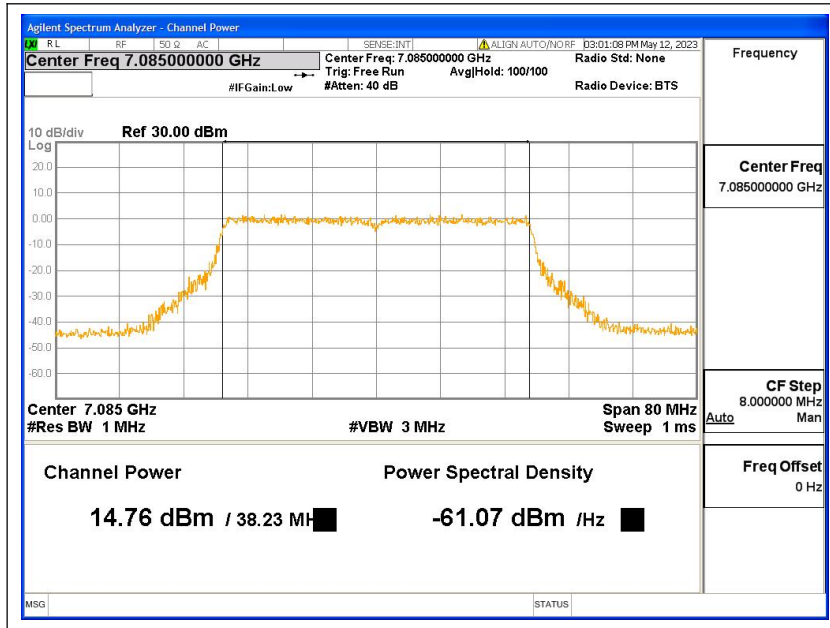
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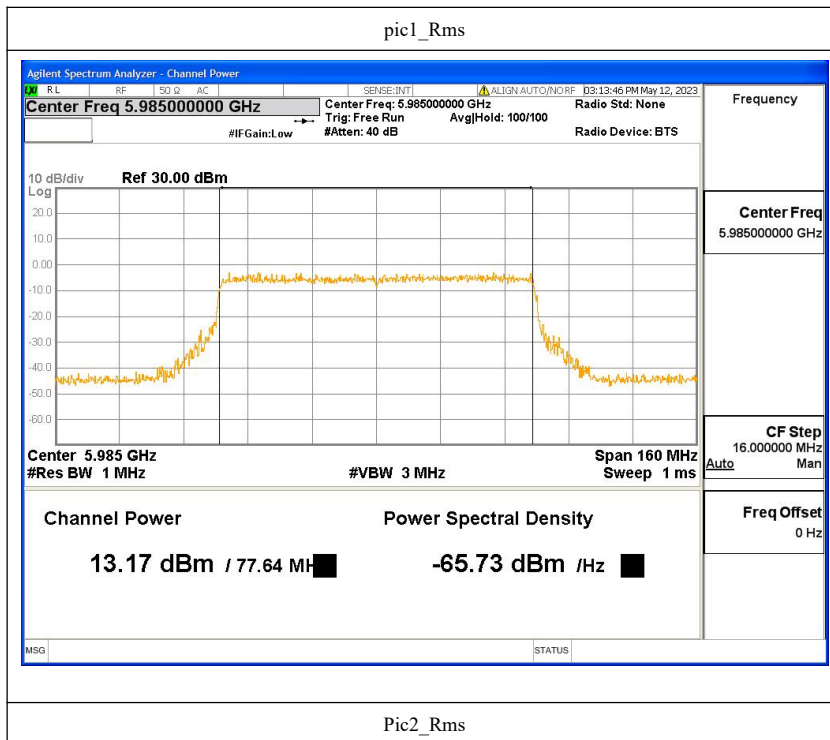
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11ax-HE80:



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