

TEST REPORT

On behalf of

Savant Technologies LLC, dba GE Lighting, a Savant company

Product Name: RTL8721DM Module

Model No.: JXC8721-65

FCC ID: PUU-KEYPADSG2A

Prepared For: Savant Technologies LLC, dba GE Lighting, a Savant company
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Report No. : ACI-F22106
Date of Test : 2022.06.16-25
Date of Report : 2022.07.13

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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TEST REPORT

Applicant : Savant Technologies LLC, dba GE Lighting, a Savant company
EUT Description : RTL8721DM Module
(A) Model No. : JXC8721-65
(B) Power Supply : DC3.3V
(C) Test Voltage : DC3.3V

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C
AND PART 15 SUBPART E
AND ANSI C63.10-2020*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

The test results for EUT's BLE/ WIFI (2.4G)/DFS function are contained in No.ACI-F22104, ACI-F22105, ACI-F22107 report.

Date of Test : 2022.06.16-25 Date of Report : 2022.07.13

Producer : HUIMIN YAN
HUIMIN YAN / Assistant

Reviewer : Byron Wu
BYRON WU/ Deputy Assistant Manager

 **AUDIX®**
For and on behalf of
Audix Technology (Shanghai) Co., Ltd. Chen

Signatory : KAMP CHEN/ Manager
Authorized Signature(s)

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.207 15.407(b)(6)
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(6)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.209(a) 15.205(a)(c) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(7)
6 dB&99% Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.407(e)
26 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.407
Maximum Conducted Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Maximum Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Frequency Stability Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	Pass	15.407(g)
Transmit Power Control Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2020	N/A	15.407(h)(1)
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : RTL8721DM Module

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model Number : JXC8721-65

Radio Tech : BLE 5.0;
IEEE 802.11 a/b/g/n.

Note : Bluetooth LE1M only.

Channel Freq. : BLE: 2402MHz-2480MHz;
IEEE 802.11a:
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE 802.11b: 2412MHz—2462MHz
IEEE 802.11g: 2412MHz—2462MHz
IEEE802.11nHT20:
2412MHz—2462MHz;
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE802.11nHT40:
2422MHz—2452MHz;
5190MHz—5230MHz; 5270MHz—5310MHz
5510MHz—5670MHz; 5755MHz—5795MHz

Modulation : BLE: GFSK;
802.11b: DSSS (CCK, DQPSK, DBPSK);
802.11a/g/n: OFDM (64QAM, 16QAM, QPSK, BPSK).

TPC Info. : TPC Function:
☐ With TPC
☒ Without TPC

Antenna Info. : Antenna Type: IPEX Antenna
Antenna Gain:
2400MHz~2483.5MHz: -2.72 dBi;
5GHz bands:
Band1: 2.15 dBi;
Band2: 2.43 dBi;
Band3: 4.1 dBi;
Band4: 2.41 dBi.
The Antenna uses an antenna that use a unique coupling to the intentional radiator that is comply with 15.203 requirement.

Applicant : Savant Technologies LLC, dba GE Lighting, a Savant company
1975 Noble Road, Cleveland, OH 44112

Manufacturer : same as Applicant

Factory : Shenzhen Jingxun Technology Co., Ltd.
3/F,A5 building Zhiyuan Community No.1001,
Xueyuan Road Nanshan District, Shenzhen City, China

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
802.11a	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 54
802.11n-HT 20	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 72.2
802.11n-HT 40	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 150

Channel List for 11a/11n-HT20			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	149	5745
104	5520	153	5765
108	5540	157	5785
112	5560	161	5805
116	5580	165	5825
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

Channel List for 11n-HT40			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
38	5190	54	5270
46	5230	62	5310
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
102	5510	151	5755
110	5550	159	5795
118	5590		
126	5630		
134	5670		

2.3 Test Information

The test software “UI_mptool.exe” was used to control EUT work in TX mode, Power Setting and select test channel.

Modulation	data rate (Mbps)	Test Channel		Frequency (MHz)
802.11a	6	Low:	36	5180
		Middle:	40	5200
		High:	48	5240
		Low:	52	5260
		Middle:	60	5300
		High:	64	5320
		Low:	100	5500
		Middle:	120	5600
		High:	140	5700
		Low:	149	5745
		Middle:	157	5785
		High:	165	5825
802.11n-HT20	MSC0	Low:	36	5180
		Middle:	40	5200
		High:	48	5240
		Low:	52	5260
		Middle:	60	5300
		High:	64	5320
		Low:	100	5500
		Middle:	120	5600
		High:	140	5700
		Low:	149	5745
		Middle:	157	5785
		High:	165	5825
802.11n-HT40	MSC0	Low:	38	5190
		High:	46	5230
		Low:	54	5270
		High:	62	5310
		Low:	102	5510
		Middle:	118	5590
		High:	134	5670
		Low:	151	5755
		High:	159	5795

2.4 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Conducted Emission	JXC8721-65	E2206269a-01/05	2022.06.09
Radiated Emission	JXC8721-65	E2206269a-01/05	2022.06.09
Conducted RF Test	JXC8721-65	E2206269a-01/05	2022.06.09

2.5 Supported equipment

Brand : Acer
Product Name: : Notebook PC
Model Name : TravelMate P238 series
Model Number : N15W8

Brand : Chicony
Product Name: : AC ADAPTER
Model Name : A18-045N2A
Model Number : A045R072P

2.6 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F and 4F, 34Bldg, 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China.

Accredited by NVLAP, Lab Code : 200371-0

FCC Designation Number : CN5027

Test Firm Registration Number : 954668

3 CONDUCTED EMISSION TEST

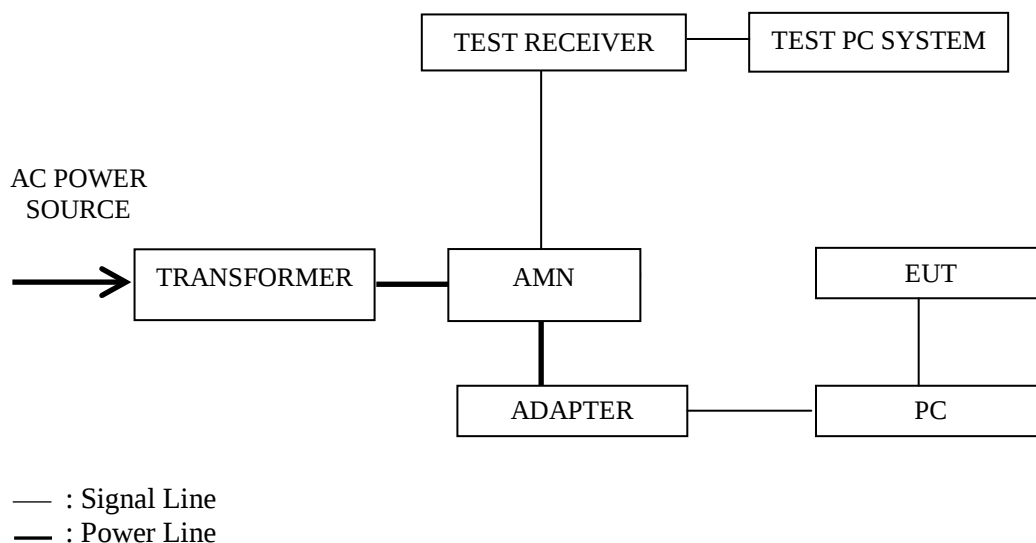
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101302	2022.06.06	1 Year
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	2021.06.24	1 Year
3.	CE Cable	HANWEI	RG233/U	KJ09052	2022.03.07	1 Year
4.	Software	Audix	e3	6.2009-1-15	--	--

3.2 Block Diagram of Test Setup

3.2.1 Conducted Disturbance Test Setup



3.3 Conducted Emission Limits

§15.207:

Frequency Range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

§15.407(6):

Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

3.6 Test Procedures

The EUT was placed upon a non-metallic table, which is 0.8 m above the horizontal conducting ground plane and 0.4 m from a vertical reference plane. The EUT was connected to the power mains through an Artificial Mains Network (AMN) to provide a 50 Ω coupling impedance for the measuring equipment. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission according to FCC Part 15 Subpart C and ANSI C63.10: 2020 requirements during conducted disturbance test.

The I.F. bandwidth of Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

Test with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. (According to KDB 174176 D01 Line Conducted FAQ)

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< **PASS** >

The frequency and amplitude of the highest conducted emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Worst case emission:

No.	Operation	Modulation	Channel	Frequency (MHz)	Data Page
1.	Transmitting	--	--	--	P15

NOTE 1 – Level = Read Level + AMN Factor + Cable Loss

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – The emission levels which not reported are too low against the official limit.

Worst case emission

EUT : RTL8721DM Module Temperature : 22°C

Model No. : JXC8721-65 Humidity : 51%RH

Test Mode : Transmitting Date of Test : 2022.06.20

Polarization	Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
Line	0.15321	43.24	0.16	0.03	43.43	65.82	22.39	QP
	0.15321	25.06	0.16	0.03	25.25	55.82	30.57	Average
	0.50469	26.94	0.2	0.04	27.18	56	28.82	QP
	0.50469	19.5	0.2	0.04	19.74	46	26.26	Average
	0.66127	24.6	0.21	0.05	24.86	56	31.14	QP
	0.66127	16.7	0.21	0.05	16.96	46	29.04	Average
	1.249	10.77	0.23	0.07	11.07	56	44.93	QP
	1.249	3.48	0.23	0.07	3.78	46	42.22	Average
	4.224	13.28	0.27	0.13	13.68	56	42.32	QP
	4.224	7.64	0.27	0.13	8.04	46	37.96	Average
	15.552	25.73	0.42	0.24	26.39	60	33.61	QP
	15.552	20.8	0.42	0.24	21.46	50	28.54	Average
Neutral	0.15321	43.22	0.12	0.03	43.37	65.82	22.45	QP
	0.15321	25.03	0.12	0.03	25.18	55.82	30.64	Average
	0.50469	25.85	0.2	0.04	26.09	56	29.91	QP
	0.50469	18.44	0.2	0.04	18.68	46	27.32	Average
	0.66127	25.46	0.22	0.05	25.73	56	30.27	QP
	0.66127	17.2	0.22	0.05	17.47	46	28.53	Average
	1.352	13.28	0.35	0.07	13.7	56	42.3	QP
	1.352	6.38	0.35	0.07	6.8	46	39.2	Average
	4.269	15.42	0.43	0.13	15.98	56	40.02	QP
	4.269	7.36	0.43	0.13	7.92	46	38.08	Average
	15.885	25.67	0.75	0.25	26.67	60	33.33	QP
	15.885	19.64	0.75	0.25	20.64	50	29.36	Average

TEST ENGINEER: Jarey

4 RADIATED EMISSION TEST

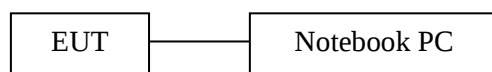
4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

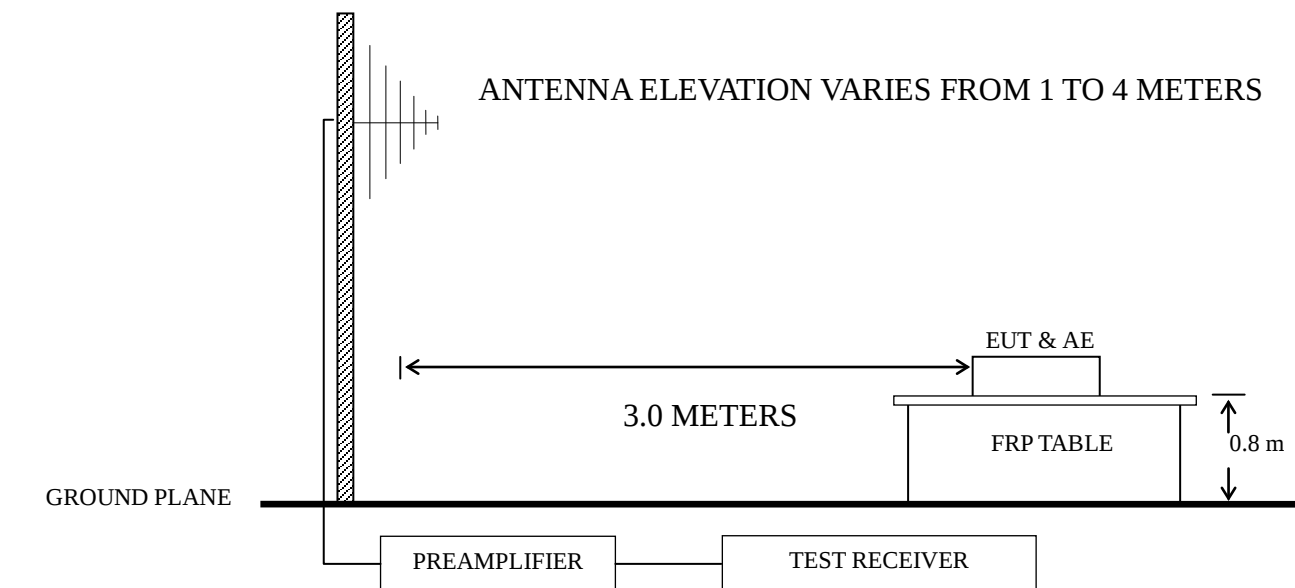
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2022.06.06	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2022.06.06	1 Year
3.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2021.09.16	1 Year
4.	Test Receiver	R&S	ESCI	101303	2022.06.06	1 Year
5.	Bilog Antenna+6dB Attenuator	Schwarz beck	VULB 9168+EMCI-N-6-06	708+AT-N0638	2021.12.13	1 Year
6.	Horn Antenna	EMCO	3115	9607-4878	2021.07.27	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2021.10.10	1 Year
8.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-E W0630-N1K50-15m-1	RE-10m-001/'R E-15m-002	2022.03.07	1 Year
9.	Cavity Band Rejection Filter	Microwave	WT-A3882-R 10	WT200312-1-1	2022.04.14	1 Year
10.	Software	Audix	e3	6.111206	--	--

4.2 Block Diagram of Test Setup

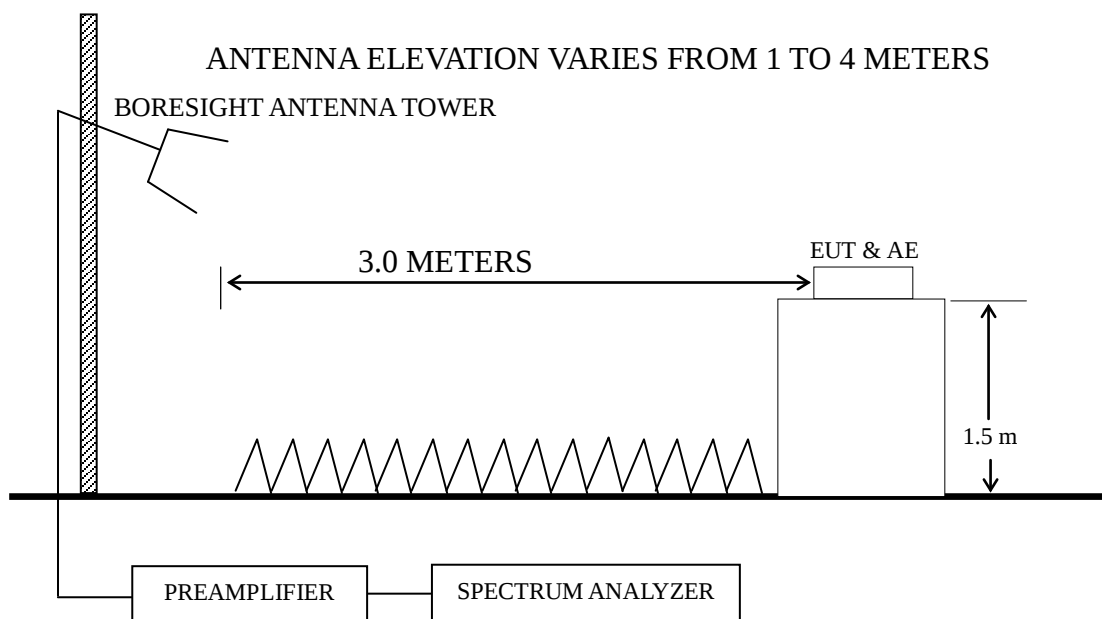
4.2.1 EUT & Peripherals



4.2.2 Below 1GHz



4.2.3 Above 1GHz



4.3 Radiated Emission Limit

§15.209:

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m)
 NOTE 2 - The tighter limit applies at the band edges.
 NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.
 NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

4.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 4.2.

4.5.2 Turn on the power of all equipment.

4.5.3 Turn the EUT on the test mode, and then test.

4.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 30 MHz to 40 GHz (Up to 10th harmonics from fundamental frequency) was checked.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

All the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

No any emissions were found from 18GHz to 40GHz. So the Radiated emission from 18GHz to 40GHz were not record.

Frequency range: below 1GHz (Worst case emission)

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	40	5200 MHz	P21
2.			60	5300 MHz	P21
3.			120	5600 MHz	P22
4.			157	5785 MHz	P22
5.		802.11n20	48	5240 MHz	P23
6.			64	5320 MHz	P23
7.			140	5700 MHz	P24
8.			165	5825 MHz	P24
9.		802.11n40	46	5230 MHz	P25
10.			62	5310 MHz	P25
11.			134	5670 MHz	P26
12.			159	5795 MHz	P26

Frequency range: above 1GHz

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P27
2.			40	5200 MHz	P27
3.			48	5240 MHz	P28
4.			52	5260 MHz	P28
5.			60	5300 MHz	P29
6.			64	5320 MHz	P29
7.			100	5500 MHz	P30
8.			120	5600 MHz	P30
9.			140	5700 MHz	P31
10.			149	5745 MHz	P31
11.			157	5785 MHz	P32
12.			165	5825 MHz	P32
13.		802.11n20	48	5240 MHz	P33
14.			64	5320 MHz	P33
15.			100	5700 MHz	P34
16.			149	5825 MHz	P34
17.		802.11n40	46	5230 MHz	P35
18.			62	5310 MHz	P35
19.			134	5670 MHz	P36
20.			159	5795 MHz	P36

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for Lying direction was the maximum emission direction during the test. The data of Side & Standing direction are too low against the official limit to be reported.

NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

Worst case emission < 1GHz

EUT : RTL8721DM Module Temperature : 22°C

Model No. : JXC8721-65 Humidity : 51%RH

Test Mode : Transmitting Date of Test : 2022.06.19

802.11a CH5200MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	42.154	23.9	19.62	0.69	28.23	15.98	40	24.02	QP
	96.099	36.87	14.67	1.07	28.02	24.59	43.5	18.91	QP
	143.83	33.06	18.94	1.29	27.82	25.47	43.5	18.03	QP
	192.419	37.73	16.43	1.51	27.47	28.2	43.5	15.3	QP
	289.002	32.6	18.93	1.86	27.06	26.33	46	19.67	QP
	560.693	28.09	24.61	2.57	27.88	27.39	46	18.61	QP
Vertical	44.12	23.52	19.64	0.71	28.22	15.65	40	24.35	QP
	96.099	29.19	14.67	1.07	28.02	16.91	43.5	26.59	QP
	168.414	27.84	18.8	1.39	27.67	20.36	43.5	23.14	QP
	192.419	30.64	16.43	1.51	27.47	21.11	43.5	22.39	QP
	375.939	24.8	20.73	2.09	27.46	20.16	46	25.84	QP
	550.948	27.44	24.4	2.53	27.9	26.47	46	19.53	QP

802.11a CH5300MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	51.843	23.39	19.55	0.77	28.19	15.52	40	24.48	QP
	96.099	36.51	14.67	1.07	28.02	24.23	43.5	19.27	QP
	143.83	33.03	18.94	1.29	27.82	25.44	43.5	18.06	QP
	192.419	37.65	16.43	1.51	27.47	28.12	43.5	15.38	QP
	289.002	32.89	18.93	1.86	27.06	26.62	46	19.38	QP
	499.425	29.63	23.6	2.48	27.9	27.81	46	18.19	QP
Vertical	38.752	24.81	19.49	0.66	28.25	16.71	40	23.29	QP
	58.203	22.41	19.04	0.82	28.17	14.1	40	25.9	QP
	96.099	28.4	14.67	1.07	28.02	16.12	43.5	27.38	QP
	168.414	28.35	18.8	1.39	27.67	20.87	43.5	22.63	QP
	289.002	25.6	18.93	1.86	27.06	19.33	46	26.67	QP
	502.94	30.43	23.66	2.48	27.9	28.67	46	17.33	QP

802.11a CH5600MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	47.994	23.4	19.68	0.73	28.21	15.6	40	24.4	QP
	96.099	36.31	14.67	1.07	28.02	24.03	43.5	19.47	QP
	143.83	32.72	18.94	1.29	27.82	25.13	43.5	18.37	QP
	192.419	38.27	16.43	1.51	27.47	28.74	43.5	14.76	QP
	289.002	32.15	18.93	1.86	27.06	25.88	46	20.12	QP
	560.693	28.26	24.61	2.57	27.88	27.56	46	18.44	QP
Vertical	41.713	22.98	19.62	0.68	28.24	15.04	40	24.96	QP
	59.649	23.56	18.93	0.83	28.16	15.16	40	24.84	QP
	96.099	28.63	14.67	1.07	28.02	16.35	43.5	27.15	QP
	168.414	28.47	18.8	1.39	27.67	20.99	43.5	22.51	QP
	289.002	25.21	18.93	1.86	27.06	18.94	46	27.06	QP
	599.321	28.53	25.4	2.73	27.8	28.86	46	17.14	QP

802.11a CH5785MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	52.76	23.4	19.47	0.78	28.19	15.46	40	24.54	QP
	96.099	36.65	14.67	1.07	28.02	24.37	43.5	19.13	QP
	143.83	32.72	18.94	1.29	27.82	25.13	43.5	18.37	QP
	192.419	37.76	16.43	1.51	27.47	28.23	43.5	15.27	QP
	289.002	32.88	18.93	1.86	27.06	26.61	46	19.39	QP
	560.693	28.98	24.61	2.57	27.88	28.28	46	17.72	QP
Vertical	47.492	24.26	19.68	0.73	28.21	16.46	40	23.54	QP
	96.099	27.81	14.67	1.07	28.02	15.53	43.5	27.97	QP
	168.414	27.05	18.8	1.39	27.67	19.57	43.5	23.93	QP
	191.745	31.15	16.5	1.51	27.47	21.69	43.5	21.81	QP
	289.002	25.97	18.93	1.86	27.06	19.7	46	26.3	QP
	599.321	28.64	25.4	2.73	27.8	28.97	46	17.03	QP

802.11n20 CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	48.502	23.7	19.69	0.74	28.21	15.92	40	24.08	QP
	96.099	36.3	14.67	1.07	28.02	24.02	43.5	19.48	QP
	143.83	33.07	18.94	1.29	27.82	25.48	43.5	18.02	QP
	192.419	37.34	16.43	1.51	27.47	27.81	43.5	15.69	QP
	289.002	31.75	18.93	1.86	27.06	25.48	46	20.52	QP
	480.528	29.91	23.38	2.4	27.86	27.83	46	18.17	QP
Vertical	37.812	23.87	19.4	0.65	28.25	15.67	40	24.33	QP
	53.693	24.14	19.39	0.78	28.18	16.13	40	23.87	QP
	96.099	28.82	14.67	1.07	28.02	16.54	43.5	26.96	QP
	192.419	31.57	16.43	1.51	27.47	22.04	43.5	21.46	QP
	406.088	21.89	21.51	2.18	27.62	17.96	46	28.04	QP
	599.321	29.01	25.4	2.73	27.8	29.34	46	16.66	QP

TEST ENGINEER: Jarey

802.11n20 CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	48.502	24.22	19.69	0.74	28.21	16.44	40	23.56	QP
	96.099	36.59	14.67	1.07	28.02	24.31	43.5	19.19	QP
	143.83	32.75	18.94	1.29	27.82	25.16	43.5	18.34	QP
	191.745	38.34	16.5	1.51	27.47	28.88	43.5	14.62	QP
	289.002	31.74	18.93	1.86	27.06	25.47	46	20.53	QP
	560.693	28.71	24.61	2.57	27.88	28.01	46	17.99	QP
Vertical	41.713	24.26	19.62	0.68	28.24	16.32	40	23.68	QP
	60.492	22.4	18.84	0.84	28.16	13.92	40	26.08	QP
	143.83	25.88	18.94	1.29	27.82	18.29	43.5	25.21	QP
	192.419	29.9	16.43	1.51	27.47	20.37	43.5	23.13	QP
	504.706	25.02	23.69	2.49	27.9	23.3	46	22.7	QP
	810.265	22.89	28.32	3.09	26.85	27.45	46	18.55	QP

TEST ENGINEER: Jarey

802.11n20 CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	41.713	23.77	19.62	0.68	28.24	15.83	40	24.17	QP
	96.099	36.42	14.67	1.07	28.02	24.14	43.5	19.36	QP
	143.83	33.02	18.94	1.29	27.82	25.43	43.5	18.07	QP
	192.419	38.3	16.43	1.51	27.47	28.77	43.5	14.73	QP
	289.002	31.28	18.93	1.86	27.06	25.01	46	20.99	QP
	560.693	28.1	24.61	2.57	27.88	27.4	46	18.6	QP
Vertical	48.502	23.03	19.69	0.74	28.21	15.25	40	24.75	QP
	96.099	27.76	14.67	1.07	28.02	15.48	43.5	28.02	QP
	168.414	29.24	18.8	1.39	27.67	21.76	43.5	21.74	QP
	289.002	25.89	18.93	1.86	27.06	19.62	46	26.38	QP
	480.528	24.43	23.38	2.4	27.86	22.35	46	23.65	QP
	782.345	21.73	28.07	3.02	27.03	25.79	46	20.21	QP

802.11n20 CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	46.016	23.42	19.66	0.72	28.22	15.58	40	24.42	QP
	96.099	36.39	14.67	1.07	28.02	24.11	43.5	19.39	QP
	143.83	33.06	18.94	1.29	27.82	25.47	43.5	18.03	QP
	191.745	37.48	16.5	1.51	27.47	28.02	43.5	15.48	QP
	289.002	31.73	18.93	1.86	27.06	25.46	46	20.54	QP
	796.183	26.64	28.26	3.06	26.94	31.02	46	14.98	QP
Vertical	44.12	23.68	19.64	0.71	28.22	15.81	40	24.19	QP
	96.099	27.66	14.67	1.07	28.02	15.38	43.5	28.12	QP
	143.83	25.98	18.94	1.29	27.82	18.39	43.5	25.11	QP
	192.419	31.32	16.43	1.51	27.47	21.79	43.5	21.71	QP
	389.355	25.26	21.05	2.14	27.54	20.91	46	25.09	QP
	599.321	28.99	25.4	2.73	27.8	29.32	46	16.68	QP

802.11n40 CH5230MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	56.593	23.56	19.16	0.81	28.17	15.36	40	24.64	QP
	96.099	36.17	14.67	1.07	28.02	23.89	43.5	19.61	QP
	143.83	32.9	18.94	1.29	27.82	25.31	43.5	18.19	QP
	192.419	37.69	16.43	1.51	27.47	28.16	43.5	15.34	QP
	289.002	31.7	18.93	1.86	27.06	25.43	46	20.57	QP
	499.425	30.09	23.6	2.48	27.9	28.27	46	17.73	QP
Vertical	38.752	25.35	19.49	0.66	28.25	17.25	40	22.75	QP
	60.069	22.24	18.9	0.84	28.16	13.82	40	26.18	QP
	96.099	29.05	14.67	1.07	28.02	16.77	43.5	26.73	QP
	191.745	30.7	16.5	1.51	27.47	21.24	43.5	22.26	QP
	480.528	24.21	23.38	2.4	27.86	22.13	46	23.87	QP
	821.71	22.76	28.34	3.12	26.75	27.47	46	18.53	QP

802.11n40 CH5310MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	51.843	23.5	19.55	0.77	28.19	15.63	40	24.37	QP
	96.099	36.56	14.67	1.07	28.02	24.28	43.5	19.22	QP
	143.83	33.81	18.94	1.29	27.82	26.22	43.5	17.28	QP
	192.419	39.06	16.43	1.51	27.47	29.53	43.5	13.97	QP
	289.002	31.59	18.93	1.86	27.06	25.32	46	20.68	QP
	499.425	30.43	23.6	2.48	27.9	28.61	46	17.39	QP
Vertical	47.994	24.15	19.68	0.73	28.21	16.35	40	23.65	QP
	69.114	22.91	17.63	0.9	28.13	13.31	40	26.69	QP
	143.83	25.7	18.94	1.29	27.82	18.11	43.5	25.39	QP
	191.745	30.33	16.5	1.51	27.47	20.87	43.5	22.63	QP
	435.59	22.61	22.54	2.26	27.75	19.66	46	26.34	QP
	744.866	23.17	27.51	2.89	27.23	26.34	46	19.66	QP

802.11n40 CH5670MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	47.492	23.96	19.68	0.73	28.21	16.16	40	23.84	QP
	96.099	36.83	14.67	1.07	28.02	24.55	43.5	18.95	QP
	143.83	32.77	18.94	1.29	27.82	25.18	43.5	18.32	QP
	191.745	37.81	16.5	1.51	27.47	28.35	43.5	15.15	QP
	289.002	30.9	18.93	1.86	27.06	24.63	46	21.37	QP
	560.693	29.2	24.61	2.57	27.88	28.5	46	17.5	QP
Vertical	40.135	23.09	19.6	0.67	28.24	15.12	40	24.88	QP
	56.593	21.73	19.16	0.81	28.17	13.53	40	26.47	QP
	96.099	29.88	14.67	1.07	28.02	17.6	43.5	25.9	QP
	168.414	27.45	18.8	1.39	27.67	19.97	43.5	23.53	QP
	289.002	26.35	18.93	1.86	27.06	20.08	46	25.92	QP
	599.321	28.29	25.4	2.73	27.8	28.62	46	17.38	QP

TEST ENGINEER: Jarey

802.11n40 CH5795MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	46.503	24.16	19.67	0.72	28.21	16.34	40	23.66	QP
	96.099	36.75	14.67	1.07	28.02	24.47	43.5	19.03	QP
	143.83	33.62	18.94	1.29	27.82	26.03	43.5	17.47	QP
	192.419	38.05	16.43	1.51	27.47	28.52	43.5	14.98	QP
	289.002	33.47	18.93	1.86	27.06	27.2	46	18.8	QP
	560.693	28.42	24.61	2.57	27.88	27.72	46	18.28	QP
Vertical	53.693	23.74	19.39	0.78	28.18	15.73	40	24.27	QP
	96.099	29.28	14.67	1.07	28.02	17	43.5	26.5	QP
	143.83	25.08	18.94	1.29	27.82	17.49	43.5	26.01	QP
	192.419	29.97	16.43	1.51	27.47	20.44	43.5	23.06	QP
	289.002	23.8	18.93	1.86	27.06	17.53	46	28.47	QP
	550.948	27.75	24.4	2.53	27.9	26.78	46	19.22	QP

TEST ENGINEER: Jarey

Radiated Emission > 1GHz

EUT : RTL8721DM Module Temperature : 22°C

Model No. : JXC8721-65 Humidity : 51%RH

Test Mode : Transmitting Date of Test : 2022.06.25

802.11a CH5180MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4162	39.08	32.31	6.93	34.95	43.37	74	30.63	Peak
	7494	36.19	36.8	9.79	34.8	47.98	74	26.02	Peak
	9398	36.28	38.28	10.97	34.66	50.87	74	23.13	Peak
	10350	36.86	38.33	11.46	34.53	52.12	74	21.88	Peak
	12271	34.6	38.8	12.56	34.12	51.84	74	22.16	Peak
	14804	32.26	41.34	12.31	33.18	52.73	74	21.27	Peak
Vertical	3550	40.37	31.43	6.4	35.12	43.08	74	30.92	Peak
	7800	35.4	37.37	10.01	34.8	47.98	74	26.02	Peak
	10360	38.2	38.33	11.46	34.53	53.46	74	20.54	Peak
	10360	31.85	38.33	11.46	34.53	47.11	54	6.89	Average
	12968	33.19	39.2	12.91	33.91	51.39	74	22.61	Peak
	14838	32.61	41.23	12.31	33.16	52.99	74	21.01	Peak

802.11a CH5200MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3890	39.35	32.24	6.66	35.03	43.22	74	30.78	Peak
	6746	35.96	34.98	9.01	34.78	45.17	74	28.83	Peak
	8871	35.38	38.3	10.64	34.71	49.61	74	24.39	Peak
	10401	37.71	38.32	11.46	34.52	52.97	74	21.03	Peak
	12237	34.3	38.83	12.45	34.13	51.45	74	22.55	Peak
	15093	32.95	40.35	12.64	33.08	52.86	74	21.14	Peak
Vertical	3397	42	31.07	6.27	35.17	44.17	74	29.83	Peak
	7494	34.56	36.8	9.79	34.8	46.35	74	27.65	Peak
	10401	41.94	38.32	11.46	34.52	57.2	74	16.8	Peak
	10401	32.19	38.32	11.46	34.52	47.45	54	6.55	Average
	12305	34.32	38.77	12.56	34.1	51.55	74	22.45	Peak
	14940	32.01	40.91	12.31	33.12	52.11	74	21.89	Peak

802.11a CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3550	40.22	31.43	6.4	35.12	42.93	74	31.07	Peak
	6950	35.63	35.5	9.18	34.8	45.51	74	28.49	Peak
	8871	35.98	38.3	10.64	34.71	50.21	74	23.79	Peak
	10469	36.5	38.31	11.51	34.5	51.82	74	22.18	Peak
	12900	33.64	39.11	12.91	33.94	51.72	74	22.28	Peak
	14838	32.91	41.23	12.31	33.16	53.29	74	20.71	Peak
Vertical	3584	40.2	31.53	6.44	35.11	43.06	74	30.94	Peak
	7426	35.91	36.65	9.69	34.8	47.45	74	26.55	Peak
	10480	42.52	38.31	11.51	34.5	57.84	74	16.16	Peak
	10480	33.2	38.31	11.51	34.5	48.52	54	5.48	Average
	12509	34.34	38.6	12.68	34.04	51.58	74	22.42	Peak
	14787	31.6	41.34	12.54	33.18	52.3	74	21.7	Peak

802.11a CH5260MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3550	40.89	31.43	6.4	35.12	43.6	74	30.4	Peak
	7358	35.97	36.45	9.58	34.8	47.2	74	26.8	Peak
	9415	35.61	38.28	10.97	34.66	50.2	74	23.8	Peak
	11370	34.29	38.8	11.87	34.32	50.64	74	23.36	Peak
	13087	33.37	39.48	13.03	33.86	52.02	74	21.98	Peak
	15008	33.28	40.8	12.31	33.09	53.3	74	20.7	Peak
Vertical	3907	39.79	32.27	6.71	35.02	43.75	74	30.25	Peak
	7086	35.98	35.8	9.37	34.8	46.35	74	27.65	Peak
	10520	39.11	38.3	11.51	34.5	54.42	74	19.58	Peak
	10520	31.4	38.3	11.51	34.5	46.71	54	7.29	Average
	12135	35.02	38.89	12.45	34.15	52.21	74	21.79	Peak
	14719	31.97	41.56	12.54	33.2	52.87	74	21.13	Peak

802.11a CH5300MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3924	39.1	32.32	6.71	35.02	43.11	74	30.89	Peak
	7069	36.57	35.8	9.37	34.8	46.94	74	27.06	Peak
	9279	35.87	38.26	10.88	34.67	50.34	74	23.66	Peak
	10605	37.12	38.39	11.55	34.48	52.58	74	21.42	Peak
	12900	33.43	39.11	12.91	33.94	51.51	74	22.49	Peak
	15127	33.31	40.12	12.64	33.07	53	74	21	Peak
Vertical	3873	39.28	32.19	6.66	35.03	43.1	74	30.9	Peak
	7851	35.59	37.45	10.11	34.8	48.35	74	25.65	Peak
	10600	37.38	38.39	11.55	34.48	52.84	74	21.16	Peak
	10600	30.5	38.39	11.55	34.48	45.96	54	8.04	Average
	12254	34.39	38.8	12.45	34.12	51.52	74	22.48	Peak
	14923	32.68	41.02	12.31	33.12	52.89	74	21.11	Peak

802.11a CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3499	41.85	31.3	6.36	35.14	44.37	74	29.63	Peak
	7392	35.63	36.55	9.69	34.8	47.07	74	26.93	Peak
	9398	35.87	38.28	10.97	34.66	50.46	74	23.54	Peak
	11336	34.82	38.8	11.87	34.33	51.16	74	22.84	Peak
	13155	32.9	39.66	13.03	33.85	51.74	74	22.26	Peak
	14906	33.29	41.02	12.31	33.14	53.48	74	20.52	Peak
Vertical	3550	40.32	31.43	6.4	35.12	43.03	74	30.97	Peak
	8259	36.67	38.17	10.34	34.77	50.41	74	23.59	Peak
	10640	39.57	38.42	11.55	34.47	55.07	74	18.93	Peak
	10640	30.25	38.42	11.55	34.47	45.75	54	8.25	Average
	12322	34.95	38.74	12.56	34.1	52.15	74	21.85	Peak
	14906	32.3	41.02	12.31	33.14	52.49	74	21.51	Peak

802.11a CH5500MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3312	41.43	30.87	6.18	35.2	43.28	74	30.72	Peak
	7154	35.68	36	9.37	34.8	46.25	74	27.75	Peak
	8939	35.89	38.24	10.7	34.71	50.12	74	23.88	Peak
	10486	36.35	38.31	11.51	34.5	51.67	74	22.33	Peak
	12356	34.17	38.71	12.56	34.09	51.35	74	22.65	Peak
	14957	32.86	40.91	12.31	33.12	52.96	74	21.04	Peak
Vertical	4247	38.67	32.2	6.99	34.92	42.94	74	31.06	Peak
	7137	36.53	35.95	9.37	34.8	47.05	74	26.95	Peak
	8837	35.99	38.32	10.64	34.71	50.24	74	23.76	Peak
	10605	35.47	38.39	11.55	34.48	50.93	74	23.07	Peak
	12288	34.87	38.77	12.56	34.12	52.08	74	21.92	Peak
	14889	33.18	41.12	12.31	33.14	53.47	74	20.53	Peak

802.11a CH5600MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3261	41.57	30.76	6.14	35.21	43.26	74	30.74	Peak
	7477	35.77	36.75	9.69	34.8	47.41	74	26.59	Peak
	9296	36.25	38.26	10.88	34.67	50.72	74	23.28	Peak
	10775	35.2	38.55	11.6	34.45	50.9	74	23.1	Peak
	13087	33.47	39.48	13.03	33.86	52.12	74	21.88	Peak
	15161	33.24	39.89	12.64	33.06	52.71	74	21.29	Peak
Vertical	3414	40.37	31.12	6.27	35.16	42.6	74	31.4	Peak
	7188	35.21	36.05	9.47	34.8	45.93	74	28.07	Peak
	9024	34.91	38.21	10.7	34.7	49.12	74	24.88	Peak
	10979	34.88	38.77	11.64	34.41	50.88	74	23.12	Peak
	12577	33.78	38.69	12.68	34.02	51.13	74	22.87	Peak
	14889	33.15	41.12	12.31	33.14	53.44	74	20.56	Peak

802.11a CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3584	40.7	31.53	6.44	35.11	43.56	74	30.44	Peak
	7103	36.65	35.85	9.37	34.8	47.07	74	26.93	Peak
	8752	36.02	38.38	10.58	34.72	50.26	74	23.74	Peak
	10588	35.52	38.36	11.51	34.48	50.91	74	23.09	Peak
	13121	33.75	39.57	13.03	33.85	52.5	74	21.5	Peak
	14991	33.06	40.8	12.31	33.1	53.07	74	20.93	Peak
Vertical	3771	39.52	31.96	6.58	35.06	43	74	31	Peak
	7052	35.47	35.75	9.26	34.8	45.68	74	28.32	Peak
	8786	34.85	38.36	10.64	34.72	49.13	74	24.87	Peak
	10605	34.5	38.39	11.55	34.48	49.96	74	24.04	Peak
	13002	33.03	39.2	13.03	33.9	51.36	74	22.64	Peak
	14855	32.94	41.12	12.31	33.16	53.21	74	20.79	Peak

802.11a CH5745MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3312	41.97	30.87	6.18	35.2	43.82	74	30.18	Peak
	7103	37	35.85	9.37	34.8	47.42	74	26.58	Peak
	8786	35.3	38.36	10.64	34.72	49.58	74	24.42	Peak
	11200	34.67	38.8	11.76	34.36	50.87	74	23.13	Peak
	12254	34.57	38.8	12.45	34.12	51.7	74	22.3	Peak
	15212	33.2	39.66	12.64	33.05	52.45	74	21.55	Peak
Vertical	3703	40.88	31.81	6.53	35.08	44.14	74	29.86	Peak
	7001	36.33	35.6	9.26	34.8	46.39	74	27.61	Peak
	9007	35.96	38.2	10.7	34.7	50.16	74	23.84	Peak
	11166	34.42	38.8	11.76	34.37	50.61	74	23.39	Peak
	13478	32.41	40.4	13.11	33.7	52.22	74	21.78	Peak
	15110	32.8	40.35	12.64	33.07	52.72	74	21.28	Peak

802.11a CH5785MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3397	40.78	31.07	6.27	35.17	42.95	74	31.05	Peak
	6865	36.76	35.31	9.18	34.79	46.46	74	27.54	Peak
	8565	35.13	38.54	10.52	34.74	49.45	74	24.55	Peak
	10588	35.56	38.36	11.51	34.48	50.95	74	23.05	Peak
	12339	34.42	38.74	12.56	34.09	51.63	74	22.37	Peak
	15076	32.45	40.35	12.64	33.08	52.36	74	21.64	Peak
Vertical	3805	39.83	32.04	6.62	35.05	43.44	74	30.56	Peak
	6780	35.93	35.07	9.09	34.78	45.31	74	28.69	Peak
	8905	36.09	38.26	10.64	34.71	50.28	74	23.72	Peak
	10503	35.04	38.3	11.51	34.5	50.35	74	23.65	Peak
	12849	33.94	39.02	12.91	33.95	51.92	74	22.08	Peak
	15178	33.08	39.89	12.64	33.06	52.55	74	21.45	Peak

802.11a CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3397	41.16	31.07	6.27	35.17	43.33	74	30.67	Peak
	7494	35.29	36.8	9.79	34.8	47.08	74	26.92	Peak
	9143	35.39	38.23	10.79	34.68	49.73	74	24.27	Peak
	11421	34.25	38.8	11.99	34.32	50.72	74	23.28	Peak
	13189	32.73	39.66	13.07	33.83	51.63	74	22.37	Peak
	15042	33.14	40.57	12.64	33.09	53.26	74	20.74	Peak
Vertical	3414	41.11	31.12	6.27	35.16	43.34	74	30.66	Peak
	7290	36.29	36.3	9.58	34.8	47.37	74	26.63	Peak
	9670	35.06	38.33	11.15	34.63	49.91	74	24.09	Peak
	11591	34.11	38.84	12.1	34.28	50.77	74	23.23	Peak
	13053	33.48	39.38	13.03	33.88	52.01	74	21.99	Peak
	14923	33.04	41.02	12.31	33.12	53.25	74	20.75	Peak

802.11n20 CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3295	42.37	30.85	6.18	35.2	44.2	74	29.8	Peak
	7783	36.83	37.33	10.01	34.8	49.37	74	24.63	Peak
	10480	37.38	38.31	11.51	34.5	52.7	74	21.3	Peak
	10480	27.14	38.31	11.51	34.5	42.46	54	11.54	Average
	12305	34.94	38.77	12.56	34.1	52.17	74	21.83	Peak
	15042	32.23	40.57	12.64	33.09	52.35	74	21.65	Peak
Vertical	3567	40.68	31.48	6.4	35.12	43.44	74	30.56	Peak
	7001	35.8	35.6	9.26	34.8	45.86	74	28.14	Peak
	10480	41.28	38.31	11.51	34.5	56.6	74	17.4	Peak
	10480	33.28	38.31	11.51	34.5	48.6	54	5.4	Average
	12237	34.35	38.83	12.45	34.13	51.5	74	22.5	Peak
	15059	32.57	40.57	12.64	33.08	52.7	74	21.3	Peak

802.11n20 CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3414	41.43	31.12	6.27	35.16	43.66	74	30.34	Peak
	6321	37.58	34.36	8.68	34.73	45.89	74	28.11	Peak
	8259	35.31	38.17	10.34	34.77	49.05	74	24.95	Peak
	10639	35.48	38.42	11.55	34.47	50.98	74	23.02	Peak
	13121	33.18	39.57	13.03	33.85	51.93	74	22.07	Peak
	15042	32.89	40.57	12.64	33.09	53.01	74	20.99	Peak
Vertical	3448	40.92	31.19	6.31	35.15	43.27	74	30.73	Peak
	7783	35.9	37.33	10.01	34.8	48.44	74	25.56	Peak
	10640	38.08	38.42	11.55	34.47	53.58	74	20.42	Peak
	10640	28.11	38.42	11.55	34.47	43.61	54	10.39	Average
	12186	34.49	38.86	12.45	34.14	51.66	74	22.34	Peak
	14957	32.92	40.91	12.31	33.12	53.02	74	20.98	Peak

802.11n20 CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3703	39.84	31.81	6.53	35.08	43.1	74	30.9	Peak
	6865	36.96	35.31	9.18	34.79	46.66	74	27.34	Peak
	9296	35.59	38.26	10.88	34.67	50.06	74	23.94	Peak
	10826	34.55	38.61	11.6	34.43	50.33	74	23.67	Peak
	12288	34.46	38.77	12.56	34.12	51.67	74	22.33	Peak
	14974	32.58	40.91	12.31	33.1	52.7	74	21.3	Peak
Vertical	3380	41.17	31.03	6.27	35.17	43.3	74	30.7	Peak
	6882	35.68	35.31	9.18	34.79	45.38	74	28.62	Peak
	8922	35.82	38.26	10.7	34.71	50.07	74	23.93	Peak
	11285	34.39	38.8	11.87	34.34	50.72	74	23.28	Peak
	13121	33.87	39.57	13.03	33.85	52.62	74	21.38	Peak
	14668	31.81	41.67	12.54	33.21	52.81	74	21.19	Peak

802.11n20 CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3788	41.02	32.01	6.62	35.06	44.59	74	29.41	Peak
	7358	36.09	36.45	9.58	34.8	47.32	74	26.68	Peak
	9619	36.01	38.32	11.15	34.64	50.84	74	23.16	Peak
	12050	34.39	38.97	12.33	34.18	51.51	74	22.49	Peak
	13597	32.84	40.65	13.16	33.66	52.99	74	21.01	Peak
	15042	32.9	40.57	12.64	33.09	53.02	74	20.98	Peak
Vertical	3295	42.19	30.85	6.18	35.2	44.02	74	29.98	Peak
	6797	36.12	35.12	9.09	34.78	45.55	74	28.45	Peak
	8752	35.79	38.38	10.58	34.72	50.03	74	23.97	Peak
	10350	35.5	38.33	11.46	34.53	50.76	74	23.24	Peak
	12271	34.39	38.8	12.56	34.12	51.63	74	22.37	Peak
	14974	32.88	40.91	12.31	33.1	53	74	21	Peak

802.11n40 CH5230MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3788	39.56	32.01	6.62	35.06	43.13	74	30.87	Peak
	6933	36.83	35.46	9.18	34.79	46.68	74	27.32	Peak
	9279	35.32	38.26	10.88	34.67	49.79	74	24.21	Peak
	11693	34.42	38.88	12.1	34.26	51.14	74	22.86	Peak
	13461	32.56	40.31	13.11	33.72	52.26	74	21.74	Peak
	14923	33.3	41.02	12.31	33.12	53.51	74	20.49	Peak
Vertical	3992	39.19	32.47	6.75	35	43.41	74	30.59	Peak
	7698	36.64	37.17	9.9	34.8	48.91	74	25.09	Peak
	10460	38.79	38.31	11.51	34.51	54.1	74	19.9	Peak
	10460	31.63	38.31	11.51	34.51	46.94	54	7.06	Average
	12475	34.29	38.63	12.68	34.06	51.54	74	22.46	Peak
	15110	32.15	40.35	12.64	33.07	52.07	74	21.93	Peak

802.11n40 CH5310MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3584	40.47	31.53	6.44	35.11	43.33	74	30.67	Peak
	7749	35.4	37.25	10.01	34.8	47.86	74	26.14	Peak
	9976	35.72	38.39	11.33	34.6	50.84	74	23.16	Peak
	11608	34.63	38.84	12.1	34.28	51.29	74	22.71	Peak
	12900	33.52	39.11	12.91	33.94	51.6	74	22.4	Peak
	15127	32.26	40.12	12.64	33.07	51.95	74	22.05	Peak
Vertical	3669	40.33	31.73	6.49	35.09	43.46	74	30.54	Peak
	7596	35.55	37	9.9	34.8	47.65	74	26.35	Peak
	10620	37.17	38.39	11.55	34.48	52.63	74	21.37	Peak
	10620	30.53	38.39	11.55	34.48	45.99	54	8.01	Average
	12271	34.76	38.8	12.56	34.12	52	74	22	Peak
	14940	32.61	40.91	12.31	33.12	52.71	74	21.29	Peak

802.11n40 CH5670MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3295	41.77	30.85	6.18	35.2	43.6	74	30.4	Peak
	7086	35.77	35.8	9.37	34.8	46.14	74	27.86	Peak
	8769	36.37	38.38	10.58	34.72	50.61	74	23.39	Peak
	10741	34.81	38.52	11.55	34.46	50.42	74	23.58	Peak
	12628	34.43	38.74	12.8	34.01	51.96	74	22.04	Peak
	15229	33.18	39.66	12.64	33.05	52.43	74	21.57	Peak
Vertical	3414	41.08	31.12	6.27	35.16	43.31	74	30.69	Peak
	6304	37.06	34.36	8.68	34.73	45.37	74	28.63	Peak
	8225	35.7	38.13	10.34	34.78	49.39	74	24.61	Peak
	9687	35.27	38.34	11.15	34.63	50.13	74	23.87	Peak
	12407	34.54	38.69	12.56	34.08	51.71	74	22.29	Peak
	15042	32.93	40.57	12.64	33.09	53.05	74	20.95	Peak

802.11n40 CH5795MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	3278	43.15	30.8	6.18	35.21	44.92	74	29.08	Peak
	6933	36.39	35.46	9.18	34.79	46.24	74	27.76	Peak
	8973	35.6	38.22	10.7	34.7	49.82	74	24.18	Peak
	10163	36.24	38.37	11.42	34.57	51.46	74	22.54	Peak
	12288	34.99	38.77	12.56	34.12	52.2	74	21.8	Peak
	15144	33.59	40.12	12.64	33.07	53.28	74	20.72	Peak
Vertical	3550	41.01	31.43	6.4	35.12	43.72	74	30.28	Peak
	6950	36.19	35.5	9.18	34.8	46.07	74	27.93	Peak
	8514	35.27	38.58	10.46	34.75	49.56	74	24.44	Peak
	10452	35.51	38.31	11.51	34.51	50.82	74	23.18	Peak
	12492	34.13	38.6	12.68	34.04	51.37	74	22.63	Peak
	14872	32.45	41.12	12.31	33.14	52.74	74	21.26	Peak

5 BAND EDGE MEASUREMENT

5.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	HP	8449B	3008A00864	2022.01.05	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2021.09.16	1 Year
3.	Horn Antenna	EMCO	3115	9607-4878	2021.07.13	1 Year
4.	Horn Antenna	EMCO	3116	00062643	2021.09.08	1 Year
5.	Software	Audix	e3	SET00200 9912M295-2	--	--

5.2 Block Diagram of Test Setup

The Same as Section. 4.2.3.

5.3 Specification Limit

Only spurious emissions are permitted in any of the frequency bands which fall in Restricted bands as defined in §15.205(a), the field strength of emission shall not exceed the limits shown in §15.209:

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

5.4 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Agilent N9010A was set at 1MHz.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27 dBm/MHz.

All the test results are listed in Sec.5.5.

5.5 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Band Edge bands:

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P41
			48	5240 MHz	P41
2.			52	5260 MHz	P41
			64	5320 MHz	P41
3.			100	5500 MHz	P42
			140	5700 MHz	P42
4.			149	5745 MHz	P43
			165	5825 MHz	P43
5.		802.11n20	36	5180 MHz	P44
			48	5240 MHz	P44
6.			52	5260 MHz	P44
			64	5320 MHz	P44
7.			100	5500 MHz	P45
			140	5700 MHz	P45
8.			149	5745 MHz	P46
			165	5825 MHz	P46
9.		802.11n40	38	5190 MHz	P47
			46	5230 MHz	P47
10.			54	5270 MHz	P47
			62	5310 MHz	P47
11.			102	5510 MHz	P48
			134	5670 MHz	P48
12.			151	5755 MHz	P49
			159	5795 MHz	P49

Restricted bands:

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P50
			48	5240 MHz	P50
2.			52	5260 MHz	P51
			64	5320 MHz	P51
3.			100	5500 MHz	P52
			140	5700 MHz	P52
4.			149	5745 MHz	P53
			165	5825 MHz	P53
5.		802.11n20	36	5180 MHz	P54
			48	5240 MHz	P54
6.			52	5260 MHz	P55
			64	5320 MHz	P55
7.			100	5500 MHz	P56
			140	5700 MHz	P56
8.			149	5745 MHz	P57
			165	5825 MHz	P57
9.		802.11n40	38	5190 MHz	P58
			46	5230 MHz	P58
10.			54	5270 MHz	P59
			62	5310 MHz	P59
11.			102	5510 MHz	P60
			134	5670 MHz	P60
12.			151	5755 MHz	P61
			159	5795 MHz	P61

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for Lying direction was the maximum emission direction during the test. The data of Side & Standing direction are too low against the official limit to be reported.

NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 7 – The frequency range 4500MHz-5150MHz & 5350MHz-5460MHz & 7250MHz-7750MHz were tested for Restricted bands.

Band-Edge:EUT : RTL8721DM Module Temperature : 22°CModel No. : JXC8721-65 Humidity : 51%RHTest Mode : Transmitting Date of Test : 2022.06.20**802.11a CH5180MHz**

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	40.59	34.03	7.83	34.7	47.75	74	26.25	Peak
	5150	31.36	34.03	7.83	34.7	38.52	54	15.48	Average
Vertical	5150	39.72	34.03	7.83	34.7	46.88	74	27.12	Peak
	5150	30.28	34.03	7.83	34.7	37.44	54	16.56	Average

802.11a CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	40.15	34.07	7.94	34.7	47.46	74	26.54	Peak
	5350	32.51	34.07	7.94	34.7	39.82	54	14.18	Average
Vertical	5350	38.6	34.07	7.94	34.7	45.91	74	28.09	Peak
	5350	31.26	34.07	7.94	34.7	38.57	54	15.43	Average

802.11a CH5260MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	39.64	34.03	7.83	34.7	46.8	74	27.2	Peak
	5150	31.57	34.03	7.83	34.7	38.73	54	15.27	Average
Vertical	5150	39.9	34.03	7.83	34.7	47.06	74	26.94	Peak
	5150	30.59	34.03	7.83	34.7	37.75	54	16.25	Average

802.11a CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	40.23	34.07	7.94	34.7	47.54	74	26.46	Peak
	5350	31.52	34.07	7.94	34.7	38.83	54	15.17	Average
Vertical	5350	38.72	34.07	7.94	34.7	46.03	74	27.97	Peak
	5350	29.37	34.07	7.94	34.7	36.68	54	17.32	Average

802.11a CH5500MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	38.79	34.09	8.04	34.7	46.22	74	27.78	Peak
	5460	32.48	34.09	8.04	34.7	39.91	54	14.09	Average
	5470	40.95	34.09	8.04	34.7	48.38	74	25.62	Peak
	5470	32.8	34.09	8.04	34.7	40.23	54	13.77	Average
Vertical	5460	40.1	34.09	8.04	34.7	47.53	74	26.47	Peak
	5460	30.21	34.09	8.04	34.7	37.64	54	16.36	Average
	5470	38.59	34.09	8.04	34.7	46.02	74	27.98	Peak
	5470	30.26	34.09	8.04	34.7	37.69	54	16.31	Average

802.11a CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5725	41.47	34.19	8.2	34.7	49.16	74	24.84	Peak
	5725	32.35	34.19	8.2	34.7	40.04	54	13.96	Average
	7250	40.11	36.2	9.47	34.8	50.98	74	23.02	Peak
	7250	29.31	36.2	9.47	34.8	40.18	54	13.82	Average
Vertical	5725	41.67	34.19	8.2	34.7	49.36	74	24.64	Peak
	5725	30.57	34.19	8.2	34.7	38.26	54	15.74	Average
	7250	42.47	36.2	9.47	34.8	53.34	74	20.66	Peak
	7250	30.25	36.2	9.47	34.8	41.12	54	12.88	Average

802.11a CH5745MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	38.15	34.09	8.04	34.7	45.58	74	28.42	Peak
	5460	29.52	34.09	8.04	34.7	36.95	54	17.05	Average
	5725	39.62	34.19	8.2	34.7	47.31	74	26.69	Peak
	5725	33.46	34.19	8.2	34.7	41.15	54	12.85	Average
Vertical	5460	38.5	34.09	8.04	34.7	45.93	74	28.07	Peak
	5460	29.75	34.09	8.04	34.7	37.18	54	16.82	Average
	5470	38.05	34.09	8.04	34.7	45.48	74	28.52	Peak
	5470	29.81	34.09	8.04	34.7	37.24	54	16.76	Average

802.11a CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5850	41.41	34.24	8.3	34.7	49.25	74	24.75	Peak
	5850	32.44	34.24	8.3	34.7	40.28	54	13.72	Average
	7250	39.86	36.2	9.47	34.8	50.73	74	23.27	Peak
	7250	29.39	36.2	9.47	34.8	40.26	54	13.74	Average
Vertical	5850	40.93	34.24	8.3	34.7	48.77	74	25.23	Peak
	5850	30.59	34.24	8.3	34.7	38.43	54	15.57	Average
	7250	40.47	36.2	9.47	34.8	51.34	74	22.66	Peak
	7250	29.25	36.2	9.47	34.8	40.12	54	13.88	Average

802.11n20 CH5180MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	40.95	34.03	7.83	34.7	48.11	74	25.89	Peak
	5150	31.6	34.03	7.83	34.7	38.76	54	15.24	Average
Vertical	5150	38.84	34.03	7.83	34.7	46	74	28	Peak
	5150	30.69	34.03	7.83	34.7	37.85	54	16.15	Average

802.11n20 CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	41.76	34.07	7.94	34.7	49.07	74	24.93	Peak
	5350	32.57	34.07	7.94	34.7	39.88	54	14.12	Average
Vertical	5350	38.79	34.07	7.94	34.7	46.1	74	27.9	Peak
	5350	31.48	34.07	7.94	34.7	38.79	54	15.21	Average

802.11n20 CH5260MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	39.37	34.03	7.83	34.7	46.53	74	27.47	Peak
	5150	30.54	34.03	7.83	34.7	37.7	54	16.3	Average
Vertical	5150	39.7	34.03	7.83	34.7	46.86	74	27.14	Peak
	5150	30.37	34.03	7.83	34.7	37.53	54	16.47	Average

802.11n20 CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	38.6	34.07	7.94	34.7	45.91	74	28.09	Peak
	5350	31.56	34.07	7.94	34.7	38.87	54	15.13	Average
Vertical	5350	38.82	34.07	7.94	34.7	46.13	74	27.87	Peak
	5350	30.58	34.07	7.94	34.7	37.89	54	16.11	Average

802.11n20 CH5500MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	40.19	34.09	8.04	34.7	47.62	74	26.38	Peak
	5460	31.52	34.09	8.04	34.7	38.95	54	15.05	Average
	5470	40.44	34.09	8.04	34.7	47.87	74	26.13	Peak
	5470	32.35	34.09	8.04	34.7	39.78	54	14.22	Average
Vertical	5460	38.63	34.09	8.04	34.7	46.06	74	27.94	Peak
	5460	30.56	34.09	8.04	34.7	37.99	54	16.01	Average
	5470	38.88	34.09	8.04	34.7	46.31	74	27.69	Peak
	5470	30.49	34.09	8.04	34.7	37.92	54	16.08	Average

802.11n20 CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5725	42.47	34.19	8.2	34.7	50.16	74	23.84	Peak
	5725	32.55	34.19	8.2	34.7	40.24	54	13.76	Average
	7250	39.77	36.2	9.47	34.8	50.64	74	23.36	Peak
	7250	29.68	36.2	9.47	34.8	40.55	54	13.45	Average
Vertical	5725	39.52	34.19	8.2	34.7	47.21	74	26.79	Peak
	5725	30.35	34.19	8.2	34.7	38.04	54	15.96	Average
	7250	40.23	36.2	9.47	34.8	51.1	74	22.9	Peak
	7250	29.53	36.2	9.47	34.8	40.4	54	13.6	Average

802.11n20 CH5745MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	37.42	34.09	8.04	34.7	44.85	74	29.15	Peak
	5460	30.64	34.09	8.04	34.7	38.07	54	15.93	Average
	5725	39.99	34.19	8.2	34.7	47.68	74	26.32	Peak
	5725	32.8	34.19	8.2	34.7	40.49	54	13.51	Average
Vertical	5460	37.95	34.09	8.04	34.7	45.38	74	28.62	Peak
	5460	29.7	34.09	8.04	34.7	37.13	54	16.87	Average
	5725	39.53	34.19	8.2	34.7	47.22	74	26.78	Peak
	5725	30.53	34.19	8.2	34.7	38.22	54	15.78	Average

802.11n20 CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5850	40.29	34.24	8.3	34.7	48.13	74	25.87	Peak
	5850	31.53	34.24	8.3	34.7	39.37	54	14.63	Average
	7250	39.24	36.2	9.47	34.8	50.11	74	23.89	Peak
	7250	30.23	36.2	9.47	34.8	41.1	54	12.9	Average
Vertical	5850	40.5	34.24	8.3	34.7	48.34	74	25.66	Peak
	5850	29.55	34.24	8.3	34.7	37.39	54	16.61	Average
	7250	39.8	36.2	9.47	34.8	50.67	74	23.33	Peak
	7250	29.48	36.2	9.47	34.8	40.35	54	13.65	Average

802.11n40 CH5190MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	45.61	34.03	7.83	34.7	52.77	74	21.23	Peak
	5150	37.66	34.03	7.83	34.7	44.82	54	9.18	Average
Vertical	5150	43.41	34.03	7.83	34.7	50.57	74	23.43	Peak
	5150	36.34	34.03	7.83	34.7	43.5	54	10.5	Average

802.11n40 CH5230MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	40.31	34.07	7.94	34.7	47.62	74	26.38	Peak
	5350	33.53	34.07	7.94	34.7	40.84	54	13.16	Average
Vertical	5350	38.7	34.07	7.94	34.7	46.01	74	27.99	Peak
	5350	38.47	34.07	7.94	34.7	45.78	54	8.22	Average

802.11n40 CH5270MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5150	39.64	34.03	7.83	34.7	46.8	74	27.2	Peak
	5150	31.67	34.03	7.83	34.7	38.83	54	15.17	Average
Vertical	5150	40.84	34.03	7.83	34.7	48	74	26	Peak
	5150	30.79	34.03	7.83	34.7	37.95	54	16.05	Average

802.11n40 CH5310MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5350	44.12	34.07	7.94	34.7	51.43	74	22.57	Peak
	5350	36.51	34.07	7.94	34.7	43.82	54	10.18	Average
Vertical	5350	40.98	34.07	7.94	34.7	48.29	74	25.71	Peak
	5350	33.69	34.07	7.94	34.7	41	54	13	Average

802.11n40 CH5510MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	40.97	34.09	8.04	34.7	48.4	74	25.6	Peak
	5460	32.7	34.09	8.04	34.7	40.13	54	13.87	Average
	5470	44.23	34.09	8.04	34.7	51.66	74	22.34	Peak
	5470	35.43	34.09	8.04	34.7	42.86	54	11.14	Average
Vertical	5460	39.43	34.09	8.04	34.7	46.86	74	27.14	Peak
	5460	30.61	34.09	8.04	34.7	38.04	54	15.96	Average
	5470	39.37	34.09	8.04	34.7	46.8	74	27.2	Peak
	5470	30.84	34.09	8.04	34.7	38.27	54	15.73	Average

802.11n40 CH5670MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5725	41.04	34.19	8.2	34.7	48.73	74	25.27	Peak
	5725	32.3	34.19	8.2	34.7	39.99	54	14.01	Average
	7250	40.53	36.2	9.47	34.8	51.4	74	22.6	Peak
	7250	28.23	36.2	9.47	34.8	39.1	54	14.9	Average
Vertical	5725	40.7	34.19	8.2	34.7	48.39	74	25.61	Peak
	5725	29.57	34.19	8.2	34.7	37.26	54	16.74	Average
	7250	38.91	36.2	9.47	34.8	49.78	74	24.22	Peak
	7250	29.69	36.2	9.47	34.8	40.56	54	13.44	Average

802.11n40 CH5755MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5460	38.06	34.09	8.04	34.7	45.49	74	28.51	Peak
	5460	30.41	34.09	8.04	34.7	37.84	54	16.16	Average
	5725	51.02	34.19	8.2	34.7	58.71	74	15.29	Peak
	5725	38.72	34.19	8.2	34.7	46.41	54	7.59	Average
Vertical	5460	38.73	34.09	8.04	34.7	46.16	74	27.84	Peak
	5460	29.37	34.09	8.04	34.7	36.8	54	17.2	Average
	5725	44.43	34.19	8.2	34.7	52.12	74	21.88	Peak
	5725	34.34	34.19	8.2	34.7	42.03	54	11.97	Average

802.11n40 CH5795MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5850	44.25	34.24	8.3	34.7	52.09	74	21.91	Peak
	5850	32.32	34.24	8.3	34.7	40.16	54	13.84	Average
	7250	39.27	36.2	9.47	34.8	50.14	74	23.86	Peak
	7250	28.63	36.2	9.47	34.8	39.5	54	14.5	Average
Vertical	5850	40.22	34.24	8.3	34.7	48.06	74	25.94	Peak
	5850	30.32	34.24	8.3	34.7	38.16	54	15.84	Average
	7250	39.77	36.2	9.47	34.8	50.64	74	23.36	Peak
	7250	29.68	36.2	9.47	34.8	40.55	54	13.45	Average

Emissions in restricted frequency bands:

EUT : RTL8721DM Module Temperature : 22°C

Model No. : JXC8721-65 Humidity : 51%RH

Test Mode : Transmitting Date of Test : 2022.06.20

802.11a CH5180MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4671.5	41.74	32.64	7.42	34.79	47.01	74	26.99	Peak
	4671.5	30.45	32.64	7.42	34.79	35.72	54	18.28	Average
	4798.2	42.08	33.21	7.55	34.75	48.09	74	25.91	Peak
	4798.2	31.5	33.21	7.55	34.75	37.51	54	16.49	Average
	5062.1	42.51	34.01	7.78	34.7	49.6	74	24.4	Peak
	5062.1	32.35	34.01	7.78	34.7	39.44	54	14.56	Average
Vertical	4644.9	42.82	32.52	7.42	34.8	47.96	74	26.04	Peak
	4644.9	31.49	32.52	7.42	34.8	36.63	54	17.37	Average
	4801	42.67	33.21	7.55	34.75	48.68	74	25.32	Peak
	4801	31.26	33.21	7.55	34.75	37.27	54	16.73	Average
	5072.6	42.41	34.02	7.78	34.7	49.51	74	24.49	Peak
	5072.6	31.64	34.02	7.78	34.7	38.74	54	15.26	Average

802.11a CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5353.2	47.06	34.07	7.94	34.7	54.37	74	19.63	Peak
	5353.2	36.4	34.07	7.94	34.7	43.71	54	10.29	Average
	5398.6	44.27	34.08	7.99	34.7	51.64	74	22.36	Peak
	5398.6	34.62	34.08	7.99	34.7	41.99	54	12.01	Average
	5439.6	41.24	34.09	8.04	34.7	48.67	74	25.33	Peak
	5439.6	30.42	34.09	8.04	34.7	37.85	54	16.15	Average
Vertical	5353.8	44	34.07	7.94	34.7	51.31	74	22.69	Peak
	5353.8	32.5	34.07	7.94	34.7	39.81	54	14.19	Average
	5400.9	41.45	34.08	7.99	34.7	48.82	74	25.18	Peak
	5400.9	32.25	34.08	7.99	34.7	39.62	54	14.38	Average
	5455.8	41.29	34.09	8.04	34.7	48.72	74	25.28	Peak
	5455.8	29.43	34.09	8.04	34.7	36.86	54	17.14	Average

802.11a CH5260MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4676.3	41.65	32.69	7.42	34.79	46.97	74	27.03	Peak
	4676.3	31.27	32.69	7.42	34.79	36.59	54	17.41	Average
	4719.2	42.21	32.86	7.49	34.78	47.78	74	26.22	Peak
	4719.2	30.32	32.86	7.49	34.78	35.89	54	18.11	Average
	5030.4	41.94	34.01	7.73	34.7	48.98	74	25.02	Peak
	5030.4	30.59	34.01	7.73	34.7	37.63	54	16.37	Average
Vertical	4658.3	42.81	32.58	7.42	34.79	48.02	74	25.98	Peak
	4658.3	30.28	32.58	7.42	34.79	35.49	54	18.51	Average
	4800.3	42.23	33.21	7.55	34.75	48.24	74	25.76	Peak
	4800.3	31.51	33.21	7.55	34.75	37.52	54	16.48	Average
	4954.7	43.48	33.83	7.67	34.71	50.27	74	23.73	Peak
	4954.7	30.24	33.83	7.67	34.71	37.03	54	16.97	Average

802.11a CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5354.1	43.65	34.07	7.94	34.7	50.96	74	23.04	Peak
	5354.1	32.36	34.07	7.94	34.7	39.67	54	14.33	Average
	5427.7	42.63	34.08	7.99	34.7	50	74	24	Peak
	5427.7	31.57	34.08	7.99	34.7	38.94	54	15.06	Average
	5439	43.94	34.09	8.04	34.7	51.37	74	22.63	Peak
	5439	34.79	34.09	8.04	34.7	42.22	54	11.78	Average
Vertical	5368.8	40.78	34.07	7.99	34.7	48.14	74	25.86	Peak
	5368.8	29.58	34.07	7.99	34.7	36.94	54	17.06	Average
	5425.1	41.22	34.08	7.99	34.7	48.59	74	25.41	Peak
	5425.1	29.33	34.08	7.99	34.7	36.7	54	17.3	Average
	5435	42.11	34.09	7.99	34.7	49.49	74	24.51	Peak
	5435	32.71	34.09	7.99	34.7	40.09	54	13.91	Average

802.11a CH5500MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5387.7	43.12	34.08	7.99	34.7	50.49	74	23.51	Peak
	5387.7	33.41	34.08	7.99	34.7	40.78	54	13.22	Average
	5420.6	42.2	34.08	7.99	34.7	49.57	74	24.43	Peak
	5420.6	32.52	34.08	7.99	34.7	39.89	54	14.11	Average
	5448.1	40.97	34.09	8.04	34.7	48.4	74	25.6	Peak
	5448.1	31.7	34.09	8.04	34.7	39.13	54	14.87	Average
Vertical	5380.1	43.14	34.08	7.99	34.7	50.51	74	23.49	Peak
	5380.1	32.41	34.08	7.99	34.7	39.78	54	14.22	Average
	5411.4	40.92	34.08	7.99	34.7	48.29	74	25.71	Peak
	5411.4	30.29	34.08	7.99	34.7	37.66	54	16.34	Average
	5444.9	41.09	34.09	8.04	34.7	48.52	74	25.48	Peak
	5444.9	30.51	34.09	8.04	34.7	37.94	54	16.06	Average

802.11a CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7298.7	41.55	36.35	9.58	34.8	52.68	74	21.32	Peak
	7298.7	29.55	36.35	9.58	34.8	40.68	54	13.32	Average
	7522.3	40.42	36.84	9.79	34.8	52.25	74	21.75	Peak
	7522.3	29.25	36.84	9.79	34.8	41.08	54	12.92	Average
	7712.7	42.92	37.21	10.01	34.8	55.34	74	18.66	Peak
	7712.7	29.69	37.21	10.01	34.8	42.11	54	11.89	Average
Vertical	7329.8	41.73	36.4	9.58	34.8	52.91	74	21.09	Peak
	7329.8	29.27	36.4	9.58	34.8	40.45	54	13.55	Average
	7532.7	40.75	36.88	9.79	34.8	52.62	74	21.38	Peak
	7532.7	29.58	36.88	9.79	34.8	41.45	54	12.55	Average
	7623.7	41.77	37.05	9.9	34.8	53.92	74	20.08	Peak
	7623.7	29.27	37.05	9.9	34.8	41.42	54	12.58	Average

802.11a CH5745MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5382.8	40.86	34.08	7.99	34.7	48.23	74	25.77	Peak
	5382.8	28.68	34.08	7.99	34.7	36.05	54	17.95	Average
	5420.6	40.41	34.08	7.99	34.7	47.78	74	26.22	Peak
	5420.6	29.44	34.08	7.99	34.7	36.81	54	17.19	Average
	5430.5	40.7	34.08	7.99	34.7	48.07	74	25.93	Peak
	5430.5	30.37	34.08	7.99	34.7	37.74	54	16.26	Average
Vertical	5377	39.87	34.08	7.99	34.7	47.24	74	26.76	Peak
	5377	29.48	34.08	7.99	34.7	36.85	54	17.15	Average
	5418.9	40.16	34.08	7.99	34.7	47.53	74	26.47	Peak
	5418.9	29.42	34.08	7.99	34.7	36.79	54	17.21	Average
	5430.1	40.5	34.08	7.99	34.7	47.87	74	26.13	Peak
	5430.1	29.65	34.08	7.99	34.7	37.02	54	16.98	Average

802.11a CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7271.5	41.38	36.25	9.58	34.8	52.41	74	21.59	Peak
	7271.5	29.44	36.25	9.58	34.8	40.47	54	13.53	Average
	7549.7	40.24	36.88	9.79	34.8	52.11	74	21.89	Peak
	7549.7	29.53	36.88	9.79	34.8	41.4	54	12.6	Average
	7676.1	41.4	37.13	9.9	34.8	53.63	74	20.37	Peak
	7676.1	30.44	37.13	9.9	34.8	42.67	54	11.33	Average
Vertical	7287.1	40.71	36.3	9.58	34.8	51.79	74	22.21	Peak
	7287.1	29.57	36.3	9.58	34.8	40.65	54	13.35	Average
	7549.7	41.33	36.88	9.79	34.8	53.2	74	20.8	Peak
	7549.7	29.54	36.88	9.79	34.8	41.41	54	12.59	Average
	7610	41.39	37	9.9	34.8	53.49	74	20.51	Peak
	7610	30.14	37	9.9	34.8	42.24	54	11.76	Average

802.11n20 CH5180MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4602.9	42.11	32.35	7.36	34.81	47.01	74	26.99	Peak
	4602.9	30.62	32.35	7.36	34.81	35.52	54	18.48	Average
	4799.6	41.82	33.21	7.55	34.75	47.83	74	26.17	Peak
	4799.6	30.57	33.21	7.55	34.75	36.58	54	17.42	Average
	5057.9	42.99	34.01	7.78	34.7	50.08	74	23.92	Peak
	5057.9	32.3	34.01	7.78	34.7	39.39	54	14.61	Average
Vertical	4663.8	42.47	32.64	7.42	34.79	47.74	74	26.26	Peak
	4663.8	30.25	32.64	7.42	34.79	35.52	54	18.48	Average
	4762.5	42.59	33.04	7.49	34.77	48.35	74	25.65	Peak
	4762.5	29.65	33.04	7.49	34.77	35.41	54	18.59	Average
	4992.1	44.64	33.94	7.73	34.7	51.61	74	22.39	Peak
	4992.1	30.37	33.94	7.73	34.7	37.34	54	16.66	Average

802.11n20 CH5240MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5357.5	46.09	34.07	7.94	34.7	53.4	74	20.6	Peak
	5357.5	36.41	34.07	7.94	34.7	43.72	54	10.28	Average
	5405.8	42.7	34.08	7.99	34.7	50.07	74	23.93	Peak
	5405.8	33.37	34.08	7.99	34.7	40.74	54	13.26	Average
	5457.1	41.35	34.09	8.04	34.7	48.78	74	25.22	Peak
	5457.1	30.64	34.09	8.04	34.7	38.07	54	15.93	Average
Vertical	5356.3	44.51	34.07	7.94	34.7	51.82	74	22.18	Peak
	5356.3	33.55	34.07	7.94	34.7	40.86	54	13.14	Average
	5408.6	40.93	34.08	7.99	34.7	48.3	74	25.7	Peak
	5408.6	29.59	34.08	7.99	34.7	36.96	54	17.04	Average
	5439.8	40.11	34.09	8.04	34.7	47.54	74	26.46	Peak
	5439.8	29.71	34.09	8.04	34.7	37.14	54	16.86	Average

802.11n20 CH5260MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4669.3	42.4	32.64	7.42	34.79	47.67	74	26.33	Peak
	4669.3	30.54	32.64	7.42	34.79	35.81	54	18.19	Average
	4755.1	42.06	32.98	7.49	34.77	47.76	74	26.24	Peak
	4755.1	30.4	32.98	7.49	34.77	36.1	54	17.9	Average
	5144.3	42.84	34.03	7.83	34.7	50	74	24	Peak
	5144.3	31.49	34.03	7.83	34.7	38.65	54	15.35	Average
Vertical	4695	42.48	32.75	7.42	34.78	47.87	74	26.13	Peak
	4695	31.45	32.75	7.42	34.78	36.84	54	17.16	Average
	4801.1	41.79	33.21	7.55	34.75	47.8	74	26.2	Peak
	4801.1	30.67	33.21	7.55	34.75	36.68	54	17.32	Average
	4985.2	43.75	33.94	7.73	34.7	50.72	74	23.28	Peak
	4985.2	29.57	33.94	7.73	34.7	36.54	54	17.46	Average

802.11n20 CH5320MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5352	41.7	34.07	7.94	34.7	49.01	74	24.99	Peak
	5352	31.57	34.07	7.94	34.7	38.88	54	15.12	Average
	5410.7	41.49	34.08	7.99	34.7	48.86	74	25.14	Peak
	5410.7	31.65	34.08	7.99	34.7	39.02	54	14.98	Average
	5433.9	44.34	34.09	7.99	34.7	51.72	74	22.28	Peak
	5433.9	32.53	34.09	7.99	34.7	39.91	54	14.09	Average
Vertical	5376.2	40.54	34.08	7.99	34.7	47.91	74	26.09	Peak
	5376.2	28.35	34.08	7.99	34.7	35.72	54	18.28	Average
	5407.5	40.55	34.08	7.99	34.7	47.92	74	26.08	Peak
	5407.5	29.66	34.08	7.99	34.7	37.03	54	16.97	Average
	5440.3	40.67	34.09	8.04	34.7	48.1	74	25.9	Peak
	5440.3	30.86	34.09	8.04	34.7	38.29	54	15.71	Average

802.11n20 CH5500MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5383.7	44.35	34.08	7.99	34.7	51.72	74	22.28	Peak
	5383.7	33.73	34.08	7.99	34.7	41.1	54	12.9	Average
	5415.3	41.85	34.08	7.99	34.7	49.22	74	24.78	Peak
	5415.3	32.49	34.08	7.99	34.7	39.86	54	14.14	Average
	5455.6	42.49	34.09	8.04	34.7	49.92	74	24.08	Peak
	5455.6	31.65	34.09	8.04	34.7	39.08	54	14.92	Average
Vertical	5375.5	41.27	34.08	7.99	34.7	48.64	74	25.36	Peak
	5375.5	30.42	34.08	7.99	34.7	37.79	54	16.21	Average
	5414.1	40.43	34.08	7.99	34.7	47.8	74	26.2	Peak
	5414.1	29.24	34.08	7.99	34.7	36.61	54	17.39	Average
	5453.9	40.81	34.09	8.04	34.7	48.24	74	25.76	Peak
	5453.9	29.68	34.09	8.04	34.7	37.11	54	16.89	Average

802.11n20 CH5700MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7358.8	40.27	36.5	9.58	34.8	51.55	74	22.45	Peak
	7358.8	29.43	36.5	9.58	34.8	40.71	54	13.29	Average
	7563.7	40.77	36.92	9.79	34.8	52.68	74	21.32	Peak
	7563.7	29.68	36.92	9.79	34.8	41.59	54	12.41	Average
	7690	40.55	37.17	9.9	34.8	52.82	74	21.18	Peak
	7690	29.35	37.17	9.9	34.8	41.62	54	12.38	Average
Vertical	7265.6	41.88	36.25	9.47	34.8	52.8	74	21.2	Peak
	7265.6	29.59	36.25	9.47	34.8	40.51	54	13.49	Average
	7547.1	40.41	36.88	9.79	34.8	52.28	74	21.72	Peak
	7547.1	29.65	36.88	9.79	34.8	41.52	54	12.48	Average
	7605.1	41.85	37	9.9	34.8	53.95	74	20.05	Peak
	7605.1	29.29	37	9.9	34.8	41.39	54	12.61	Average

802.11n20 CH5745MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5384.4	40.1	34.08	7.99	34.7	47.47	74	26.53	Peak
	5384.4	29.4	34.08	7.99	34.7	36.77	54	17.23	Average
	5428.9	39.71	34.08	7.99	34.7	47.08	74	26.92	Peak
	5428.9	29.57	34.08	7.99	34.7	36.94	54	17.06	Average
	5455.8	40.43	34.09	8.04	34.7	47.86	74	26.14	Peak
	5455.8	30.34	34.09	8.04	34.7	37.77	54	16.23	Average
Vertical	5360.4	40.33	34.07	7.99	34.7	47.69	74	26.31	Peak
	5360.4	29.43	34.07	7.99	34.7	36.79	54	17.21	Average
	5421.4	39.91	34.08	7.99	34.7	47.28	74	26.72	Peak
	5421.4	29.49	34.08	7.99	34.7	36.86	54	17.14	Average
	5457.5	40.69	34.09	8.04	34.7	48.12	74	25.88	Peak
	5457.5	29.27	34.09	8.04	34.7	36.7	54	17.3	Average

802.11n20 CH5825MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7271.5	40.48	36.25	9.58	34.8	51.51	74	22.49	Peak
	7271.5	30.35	36.25	9.58	34.8	41.38	54	12.62	Average
	7468	40.95	36.75	9.69	34.8	52.59	74	21.41	Peak
	7468	29.69	36.75	9.69	34.8	41.33	54	12.67	Average
	7637.2	41.35	37.05	9.9	34.8	53.5	74	20.5	Peak
	7637.2	29.73	37.05	9.9	34.8	41.88	54	12.12	Average
Vertical	7267.6	41.23	36.25	9.47	34.8	52.15	74	21.85	Peak
	7267.6	29.53	36.25	9.47	34.8	40.45	54	13.55	Average
	7466	41.62	36.75	9.69	34.8	53.26	74	20.74	Peak
	7466	29.36	36.75	9.69	34.8	41	54	13	Average
	7608	41.38	37	9.9	34.8	53.48	74	20.52	Peak
	7608	29.64	37	9.9	34.8	41.74	54	12.26	Average

802.11n40 CH5190MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4690.8	42.12	32.75	7.42	34.78	47.51	74	26.49	Peak
	4690.8	31.31	32.75	7.42	34.78	36.7	54	17.3	Average
	4799.5	42.12	33.21	7.55	34.75	48.13	74	25.87	Peak
	4799.5	31.5	33.21	7.55	34.75	37.51	54	16.49	Average
	5148	47.28	34.03	7.83	34.7	54.44	74	19.56	Peak
	5148	36.43	34.03	7.83	34.7	43.59	54	10.41	Average
Vertical	4620.5	43.44	32.47	7.36	34.81	48.46	74	25.54	Peak
	4620.5	30.45	32.47	7.36	34.81	35.47	54	18.53	Average
	4703.7	42.16	32.81	7.49	34.78	47.68	74	26.32	Peak
	4703.7	31.61	32.81	7.49	34.78	37.13	54	16.87	Average
	5147.5	45.11	34.03	7.83	34.7	52.27	74	21.73	Peak
	5147.5	34.21	34.03	7.83	34.7	41.37	54	12.63	Average

802.11n40 CH5230MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5354.2	44.01	34.07	7.94	34.7	51.32	74	22.68	Peak
	5354.2	33.4	34.07	7.94	34.7	40.71	54	13.29	Average
	5402.8	42.46	34.08	7.99	34.7	49.83	74	24.17	Peak
	5402.8	32.25	34.08	7.99	34.7	39.62	54	14.38	Average
	5452.2	39.84	34.09	8.04	34.7	47.27	74	26.73	Peak
	5452.2	29.68	34.09	8.04	34.7	37.11	54	16.89	Average
Vertical	5355.2	42.22	34.07	7.94	34.7	49.53	74	24.47	Peak
	5355.2	31.22	34.07	7.94	34.7	38.53	54	15.47	Average
	5426.2	40.88	34.08	7.99	34.7	48.25	74	25.75	Peak
	5426.2	29.59	34.08	7.99	34.7	36.96	54	17.04	Average
	5446	41.28	34.09	8.04	34.7	48.71	74	25.29	Peak
	5446	28.63	34.09	8.04	34.7	36.06	54	17.94	Average

802.11n40 CH5270MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	4672	42.69	32.64	7.42	34.79	47.96	74	26.04	Peak
	4672	30.57	32.64	7.42	34.79	35.84	54	18.16	Average
	4819.2	42.31	33.26	7.55	34.75	48.37	74	25.63	Peak
	4819.2	29.43	33.26	7.55	34.75	35.49	54	18.51	Average
	5097.6	42.67	34.02	7.78	34.7	49.77	74	24.23	Peak
	5097.6	30.27	34.02	7.78	34.7	37.37	54	16.63	Average
Vertical	4685.6	42.51	32.69	7.42	34.79	47.83	74	26.17	Peak
	4685.6	31.36	32.69	7.42	34.79	36.68	54	17.32	Average
	4848	41.6	33.38	7.61	34.74	47.85	74	26.15	Peak
	4848	30.65	33.38	7.61	34.74	36.9	54	17.1	Average
	5122.4	42.07	34.02	7.78	34.7	49.17	74	24.83	Peak
	5122.4	30.71	34.02	7.78	34.7	37.81	54	16.19	Average

802.11n40 CH5310MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5351.5	47.29	34.07	7.94	34.7	54.6	74	19.4	Peak
	5351.5	36.23	34.07	7.94	34.7	43.54	54	10.46	Average
	5417.9	43.57	34.08	7.99	34.7	50.94	74	23.06	Peak
	5417.9	34.46	34.08	7.99	34.7	41.83	54	12.17	Average
	5434.1	44.29	34.09	7.99	34.7	51.67	74	22.33	Peak
	5434.1	34.73	34.09	7.99	34.7	42.11	54	11.89	Average
Vertical	5354.3	44.88	34.07	7.94	34.7	52.19	74	21.81	Peak
	5354.3	32.29	34.07	7.94	34.7	39.6	54	14.4	Average
	5424.4	41.5	34.08	7.99	34.7	48.87	74	25.13	Peak
	5424.4	30.55	34.08	7.99	34.7	37.92	54	16.08	Average
	5457.3	41.23	34.09	8.04	34.7	48.66	74	25.34	Peak
	5457.3	29.72	34.09	8.04	34.7	37.15	54	16.85	Average

802.11n40 CH5510MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5386.3	41.79	34.08	7.99	34.7	49.16	74	24.84	Peak
	5386.3	32.18	34.08	7.99	34.7	39.55	54	14.45	Average
	5395.6	43.65	34.08	7.99	34.7	51.02	74	22.98	Peak
	5395.6	33.36	34.08	7.99	34.7	40.73	54	13.27	Average
	5438	42.92	34.09	7.99	34.7	50.3	74	23.7	Peak
	5438	31.89	34.09	7.99	34.7	39.27	54	14.73	Average
Vertical	5383.6	41.08	34.08	7.99	34.7	48.45	74	25.55	Peak
	5383.6	30.5	34.08	7.99	34.7	37.87	54	16.13	Average
	5422.2	40.22	34.08	7.99	34.7	47.59	74	26.41	Peak
	5422.2	29.22	34.08	7.99	34.7	36.59	54	17.41	Average
	5456.8	41.6	34.09	8.04	34.7	49.03	74	24.97	Peak
	5456.8	29.56	34.09	8.04	34.7	36.99	54	17.01	Average

802.11n40 CH5670MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7341.1	41.19	36.45	9.58	34.8	52.42	74	21.58	Peak
	7341.1	30.32	36.45	9.58	34.8	41.55	54	12.45	Average
	7497.9	39.89	36.8	9.79	34.8	51.68	74	22.32	Peak
	7497.9	29.49	36.8	9.79	34.8	41.28	54	12.72	Average
	7638.8	40.94	37.05	9.9	34.8	53.09	74	20.91	Peak
	7638.8	29.69	37.05	9.9	34.8	41.84	54	12.16	Average
Vertical	7287.9	40.66	36.3	9.58	34.8	51.74	74	22.26	Peak
	7287.9	29.37	36.3	9.58	34.8	40.45	54	13.55	Average
	7460.9	40.79	36.7	9.69	34.8	52.38	74	21.62	Peak
	7460.9	29.78	36.7	9.69	34.8	41.37	54	12.63	Average
	7648.7	40.72	37.09	9.9	34.8	52.91	74	21.09	Peak
	7648.7	29.37	37.09	9.9	34.8	41.56	54	12.44	Average

802.11n40 CH5755MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	5383.1	40.7	34.08	7.99	34.7	48.07	74	25.93	Peak
	5383.1	29.57	34.08	7.99	34.7	36.94	54	17.06	Average
	5408.3	40.82	34.08	7.99	34.7	48.19	74	25.81	Peak
	5408.3	29.58	34.08	7.99	34.7	36.95	54	17.05	Average
	5444.8	40.72	34.09	8.04	34.7	48.15	74	25.85	Peak
	5444.8	30.37	34.09	8.04	34.7	37.8	54	16.2	Average
Vertical	5375.7	40.56	34.08	7.99	34.7	47.93	74	26.07	Peak
	5375.7	28.55	34.08	7.99	34.7	35.92	54	18.08	Average
	5415.3	39.78	34.08	7.99	34.7	47.15	74	26.85	Peak
	5415.3	29.58	34.08	7.99	34.7	36.95	54	17.05	Average
	5440.9	40.11	34.09	8.04	34.7	47.54	74	26.46	Peak
	5440.9	29.31	34.09	8.04	34.7	36.74	54	17.26	Average

802.11n40 CH5795MHz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	7301.4	40.7	36.35	9.58	34.8	51.83	74	22.17	Peak
	7301.4	29.37	36.35	9.58	34.8	40.5	54	13.5	Average
	7547.5	41.09	36.88	9.79	34.8	52.96	74	21.04	Peak
	7547.5	29.51	36.88	9.79	34.8	41.38	54	12.62	Average
	7712.3	41.05	37.21	10.01	34.8	53.47	74	20.53	Peak
	7712.3	29.7	37.21	10.01	34.8	42.12	54	11.88	Average
Vertical	7253.8	41.08	36.25	9.47	34.8	52	74	22	Peak
	7253.8	29.41	36.25	9.47	34.8	40.33	54	13.67	Average
	7541.6	41.35	36.88	9.79	34.8	53.22	74	20.78	Peak
	7541.6	29.44	36.88	9.79	34.8	41.31	54	12.69	Average
	7732.1	41.22	37.25	10.01	34.8	53.68	74	20.32	Peak
	7732.1	29.62	37.25	10.01	34.8	42.08	54	11.92	Average

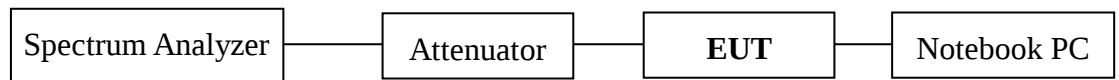
6 6 dB&99% BANDWIDTH MEASUREMENT

6.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2021.09.16	1 Year
2.	Coaxial Cable	WOKEN	SFL402-105F LEX	F02-150819-045	2022.06.06	1 Year
3.	20 dB Attenuator	Mini-Circuits	VAT-20+	001	2021.08.06	1 Year

6.2 Block Diagram of Test Setup



6.3 Specification Limits (§15.407(e))

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

6.5 Test Procedure

For 6 dB Bandwidth:

The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The test procedure is defined in KDB789033 D02 (the clause II.C.2 Measurement Procedure “ Minimum Emission Bandwidth for the band 5.725–5.85 GHz” was used).

For 99% Bandwidth:

The following procedure shall be used for measuring (99%) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW.

4. Set $VBW \geq 3 \times RBW$.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

The test procedure is defined in KDB789033 D02 (the clause II.D Measurement Procedure “99% Occupied Bandwidth” was used).

6.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2022.06.16 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11a	149	5745	16.53	500 kHz
	157	5785	16.48	500 kHz
	165	5825	16.51	500 kHz
802.11n20	149	5745	17.7	500 kHz
	157	5785	17.65	500 kHz
	165	5825	17.68	500 kHz
802.11n40	151	5755	36.38	500 kHz
	159	5795	36.38	500 kHz

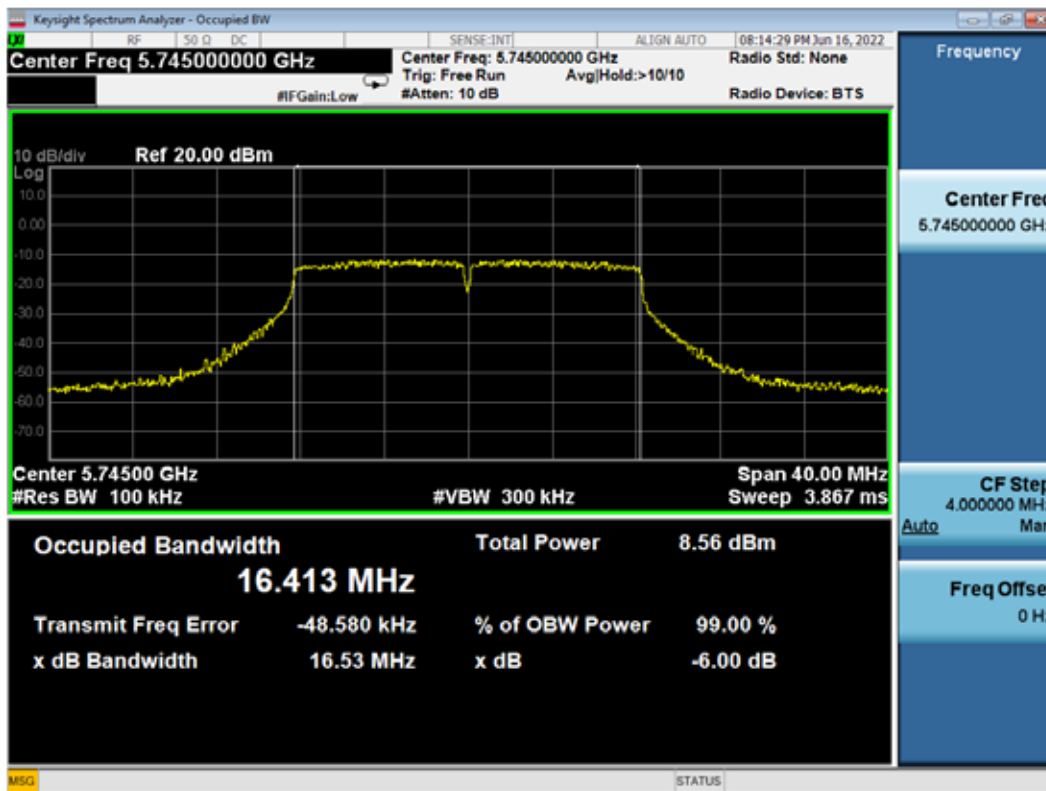
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11a	36	5180	16.848	N/A
	40	5200	16.859	N/A
	48	5240	16.769	N/A
	52	5260	16.862	N/A
	60	5300	16.777	N/A
	64	5320	16.833	N/A
	100	5500	16.828	N/A
	120	5600	16.777	N/A
	140	5700	16.88	N/A
	149	5745	16.738	N/A
	157	5785	16.837	N/A
	165	5825	16.78	N/A

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n20	36	5180	17.862	N/A
	40	5200	17.826	N/A
	48	5240	17.839	N/A
	52	5260	17.857	N/A
	60	5300	17.836	N/A
	64	5320	17.883	N/A
	100	5500	17.807	N/A
	120	5600	17.823	N/A
	140	5700	17.862	N/A
	149	5745	17.82	N/A
	157	5785	17.828	N/A
	165	5825	17.802	N/A

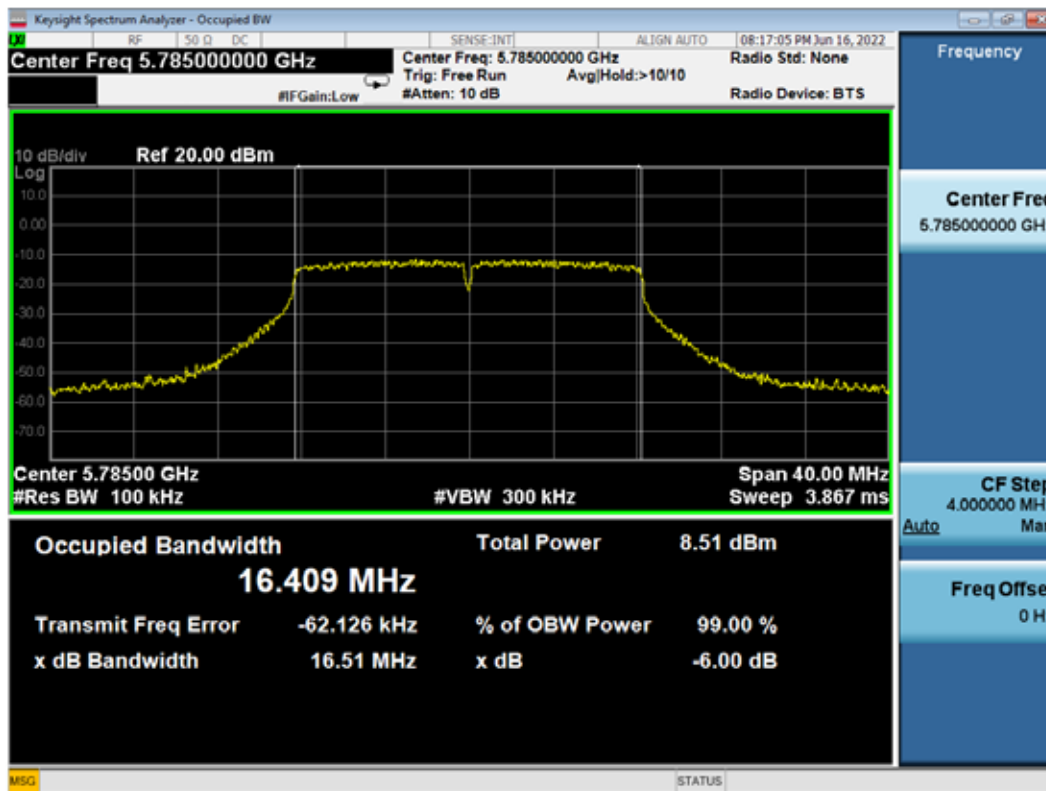
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n40	38	5190	35.795	N/A
	46	5230	35.778	N/A
	54	5270	35.796	N/A
	62	5310	35.769	N/A
	102	5510	35.781	N/A
	118	5590	35.793	N/A
	134	5670	35.751	N/A
	151	5755	35.774	N/A
	159	5795	35.79	N/A

6 dB Bandwidth:

802.11a CH5745MHz

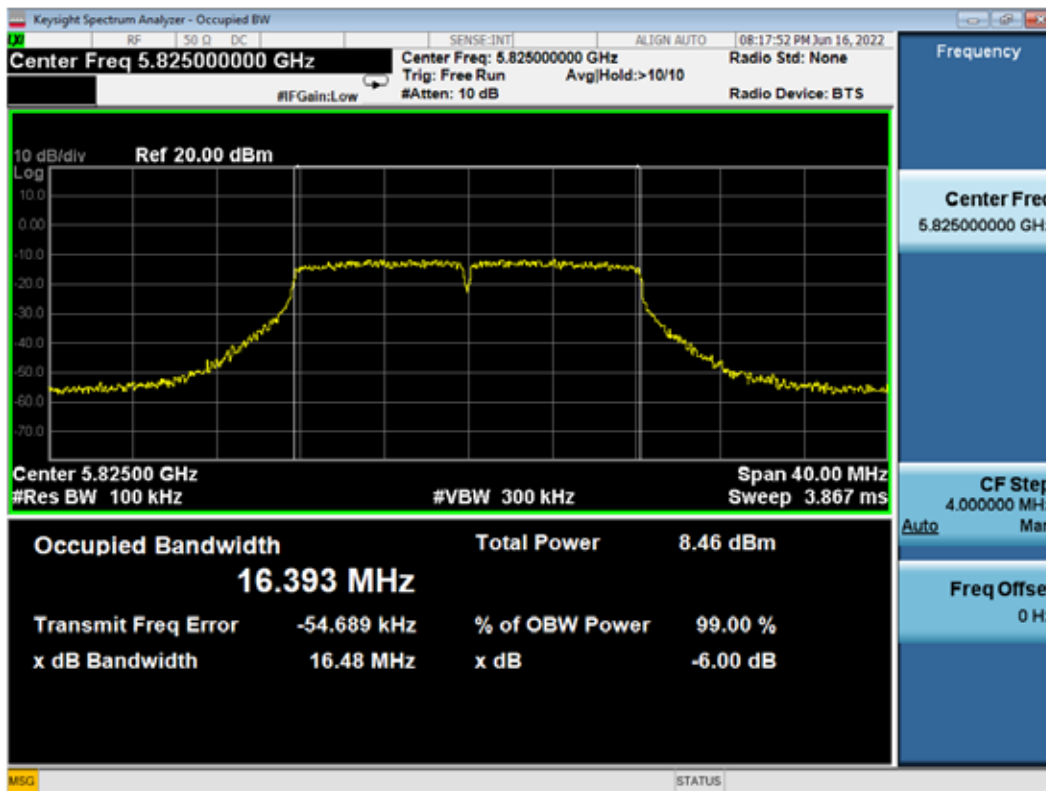


802.11a CH5785MHz

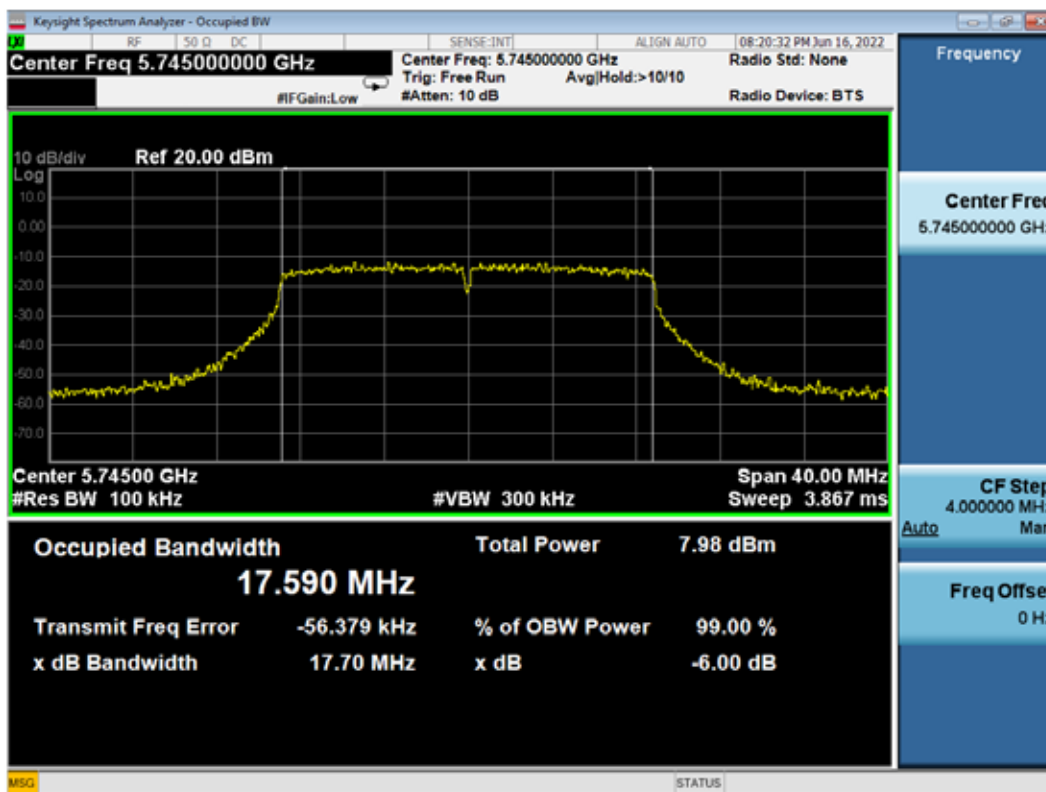


6 dB Bandwidth:

802.11a CH5825MHz

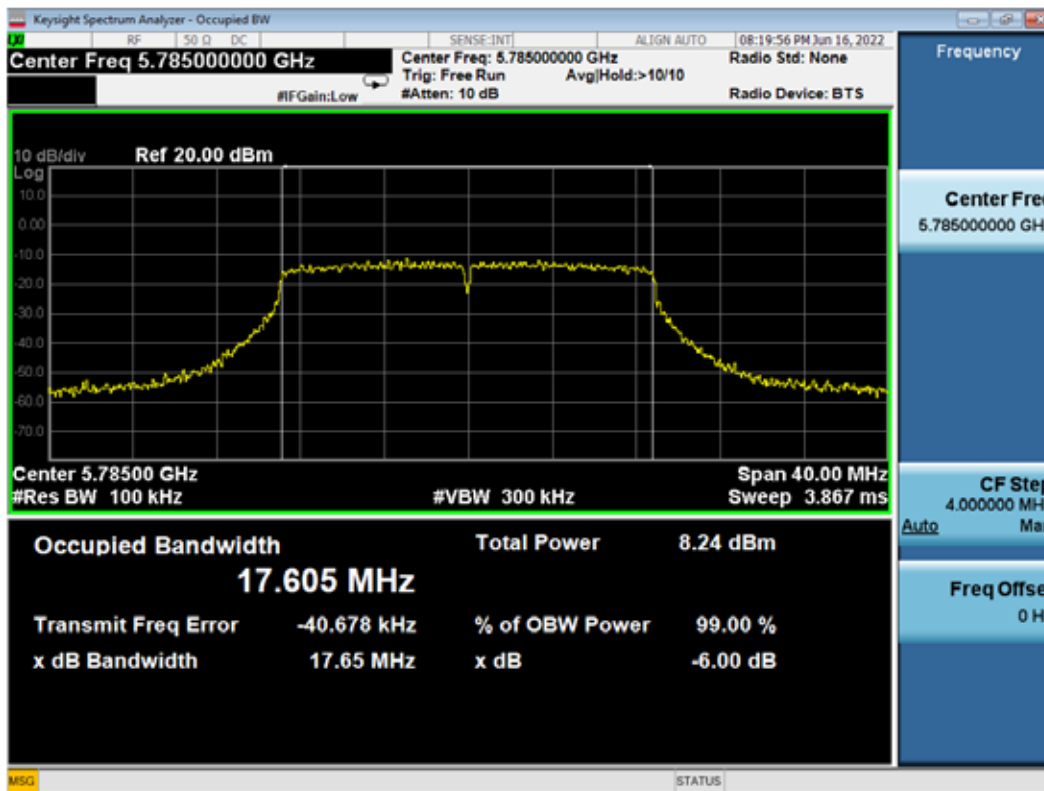


802.11n20 CH5745MHz

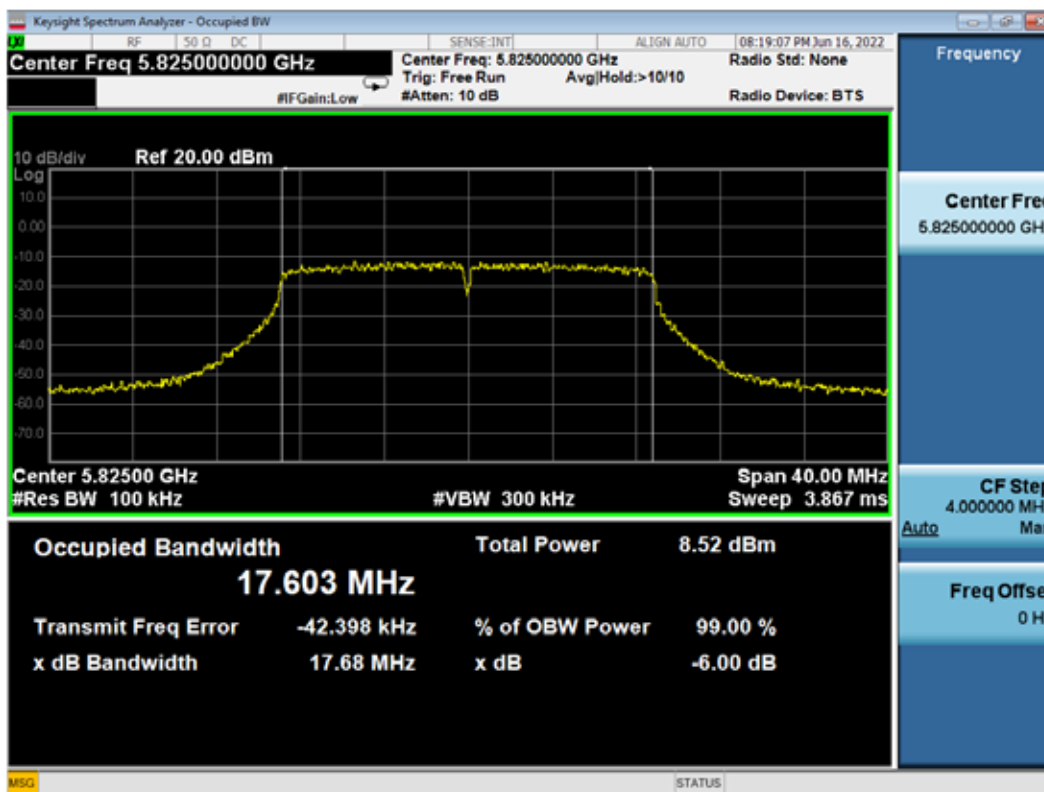


6 dB Bandwidth:

802.11n20 CH5785MHz

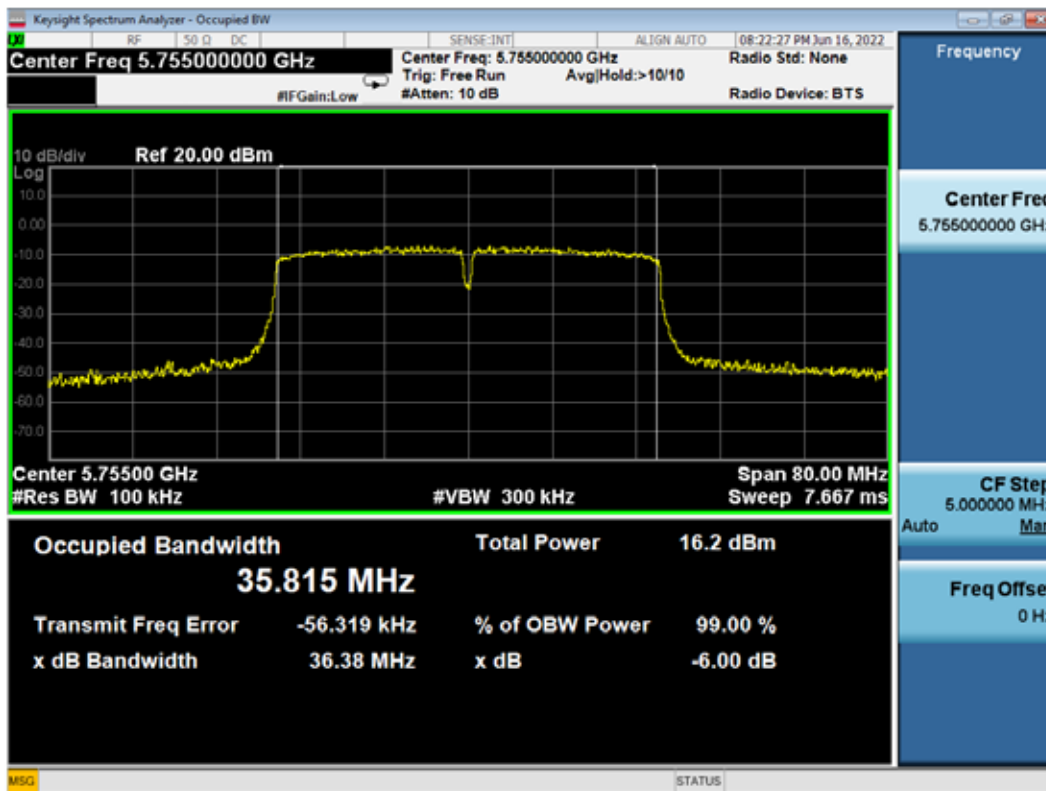


802.11n20 CH5825MHz

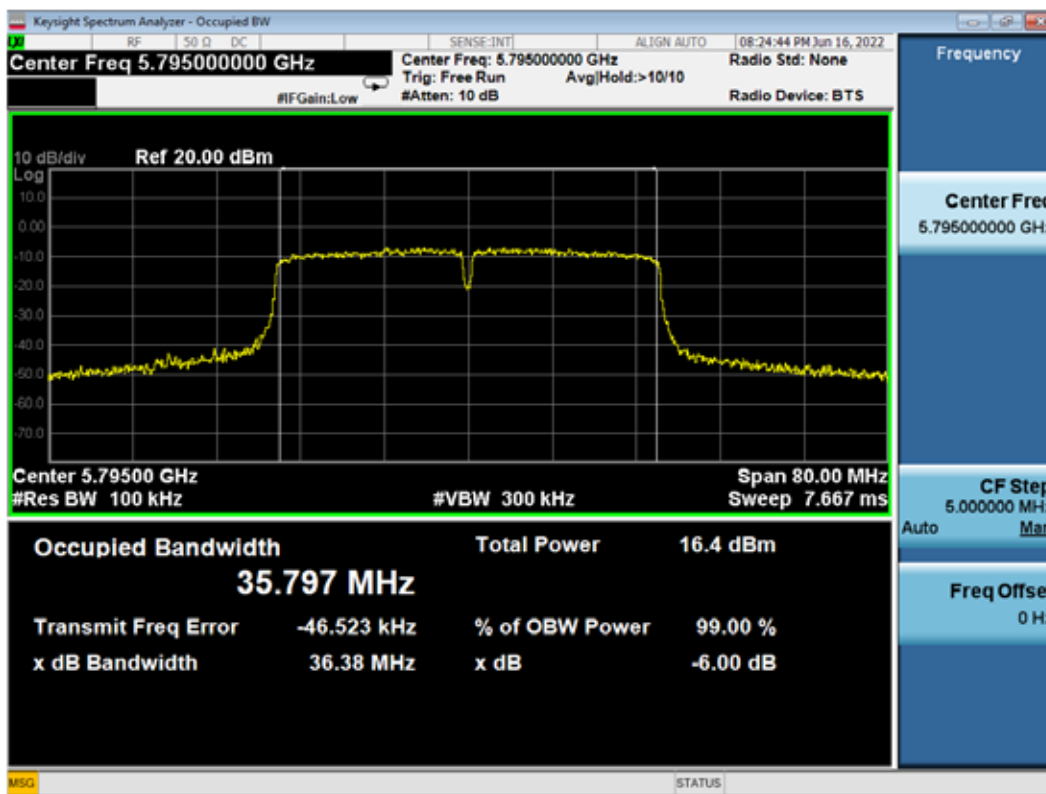


6 dB Bandwidth:

802.11n40 CH5755MHz

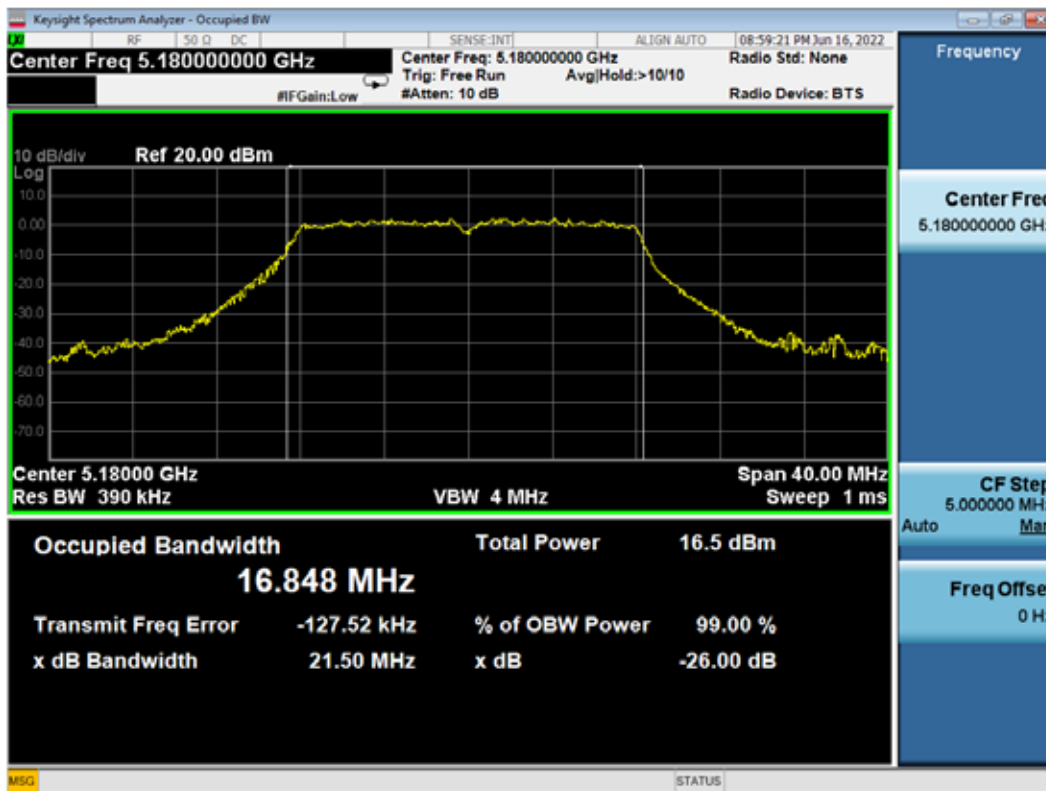


802.11n40 CH5795MHz

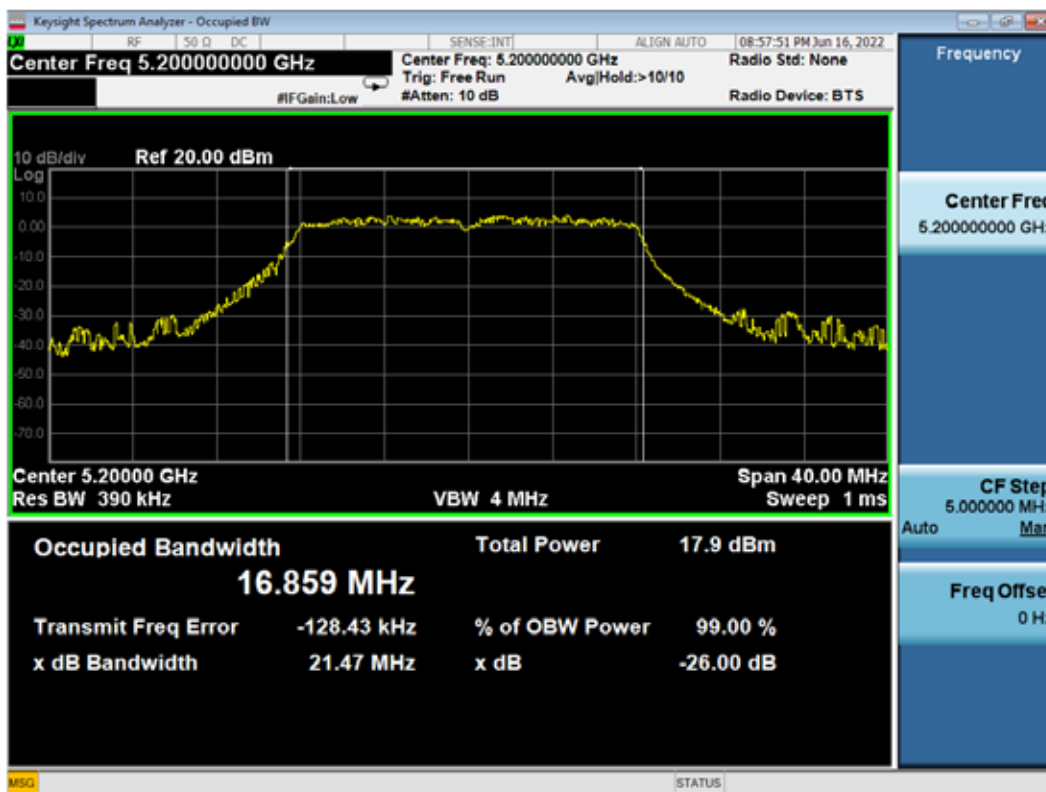


99% Bandwidth:

802.11a CH5180MHz

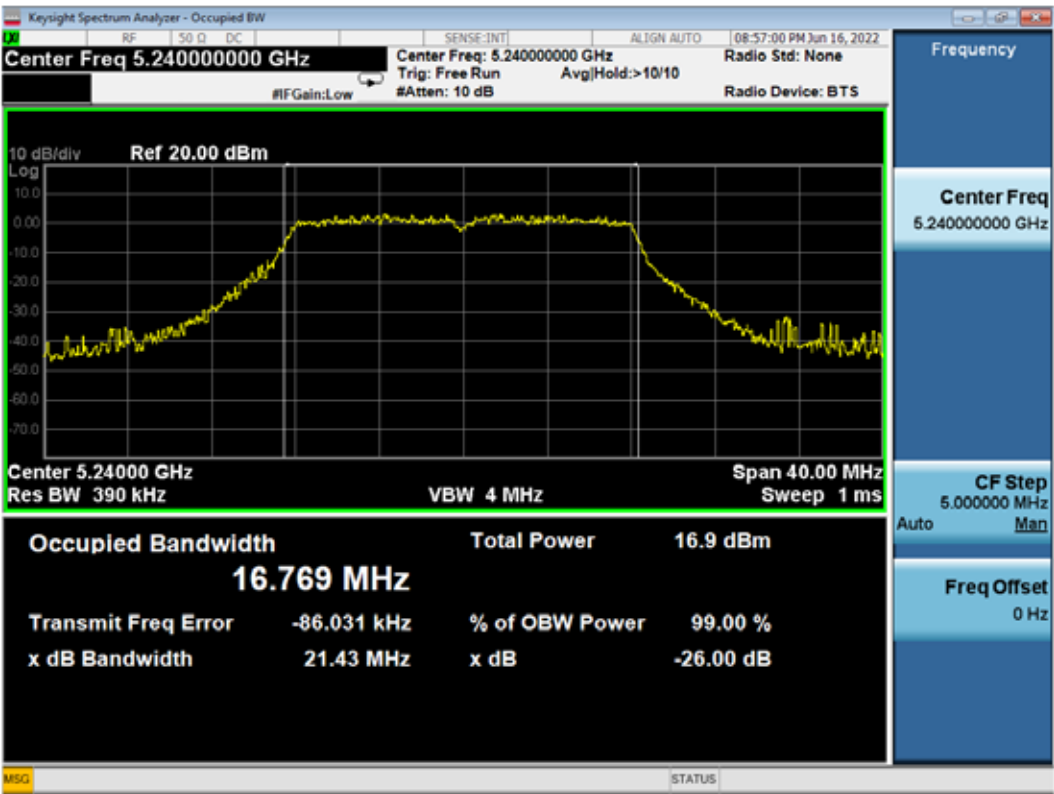


802.11a CH5200MHz

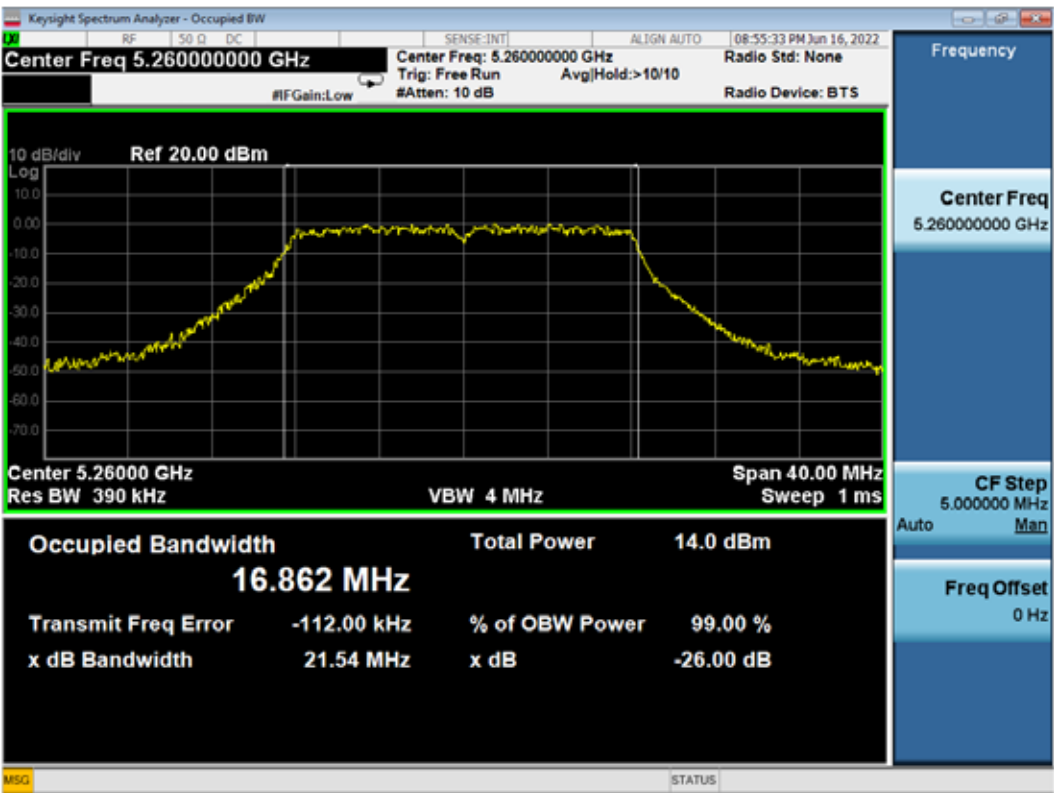


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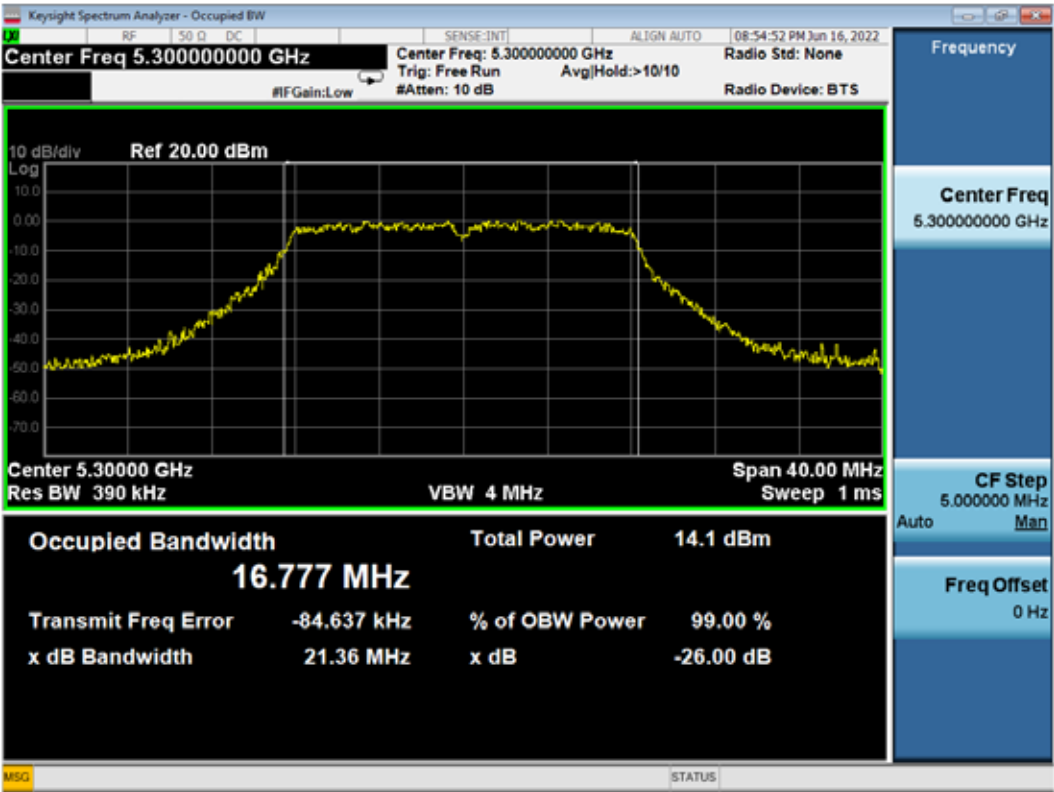


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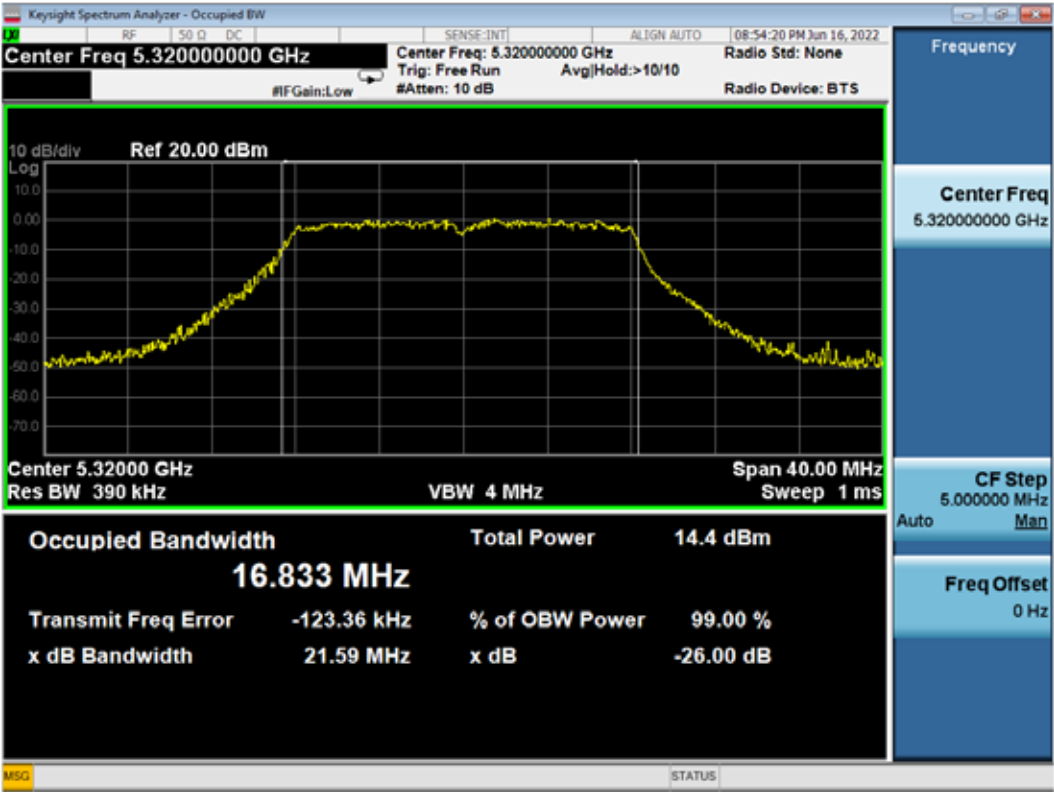


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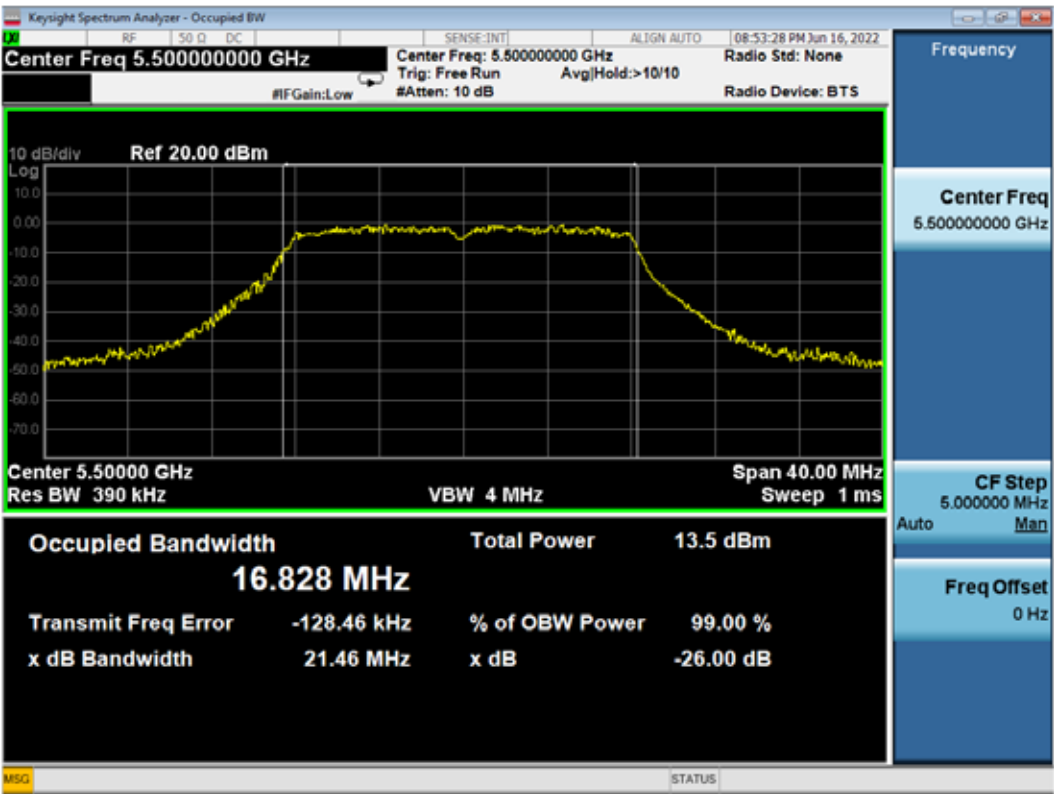


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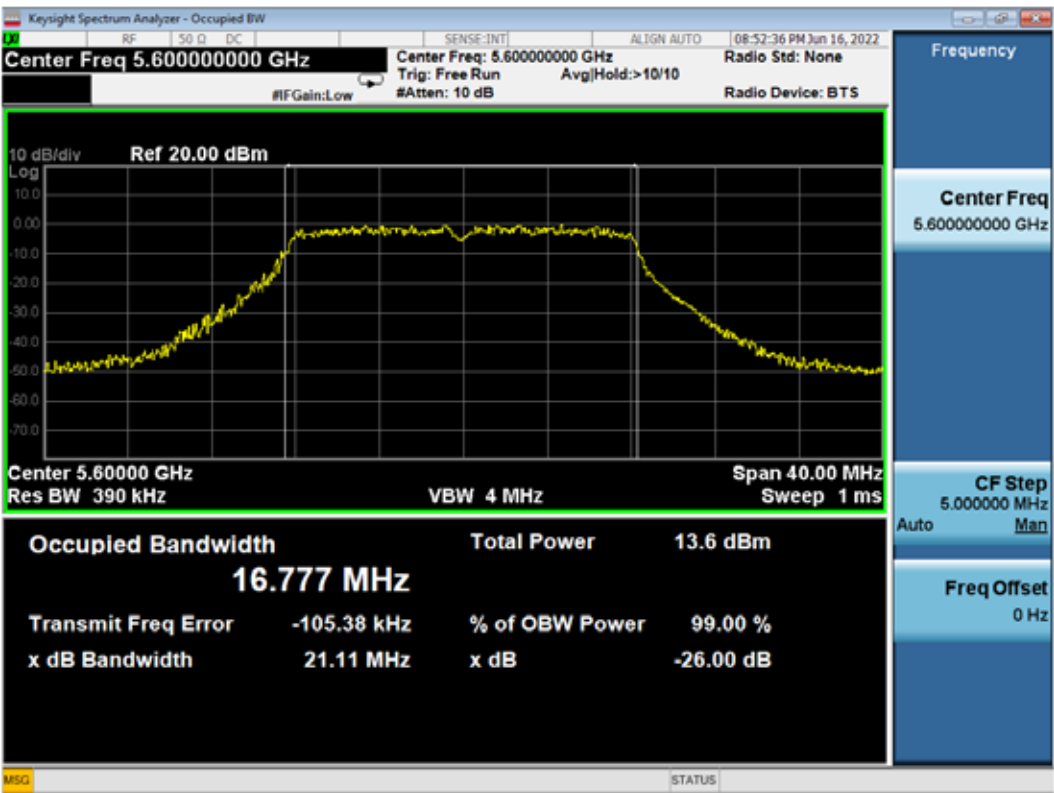


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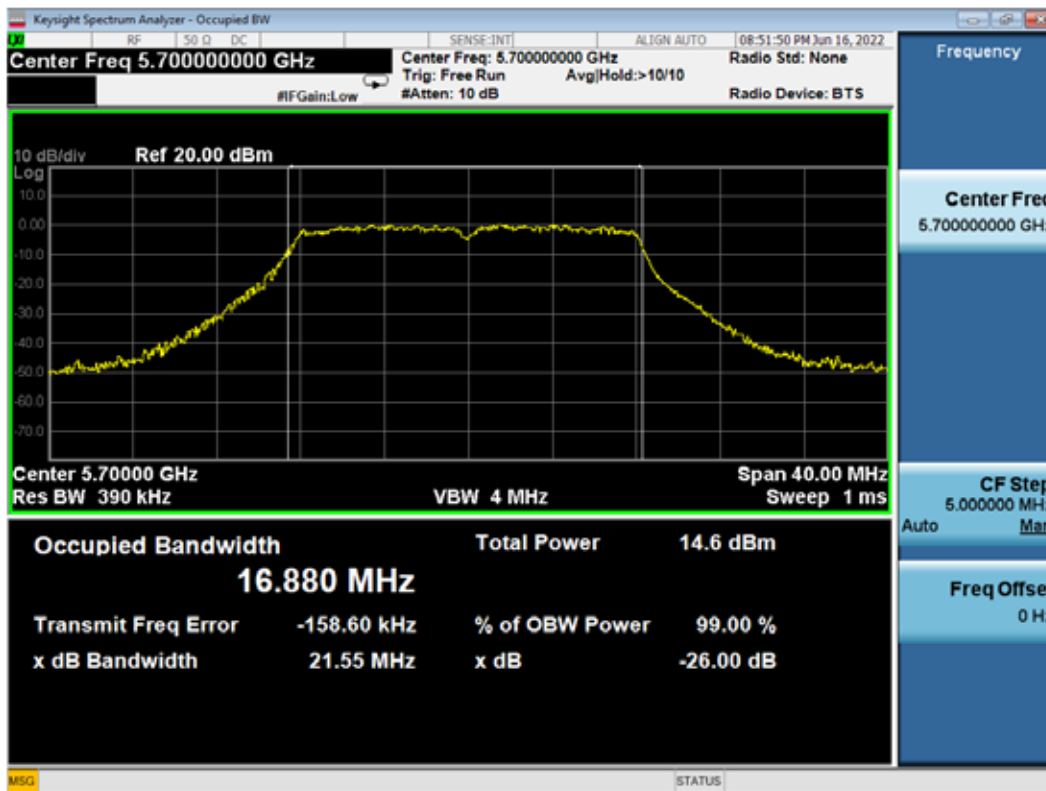


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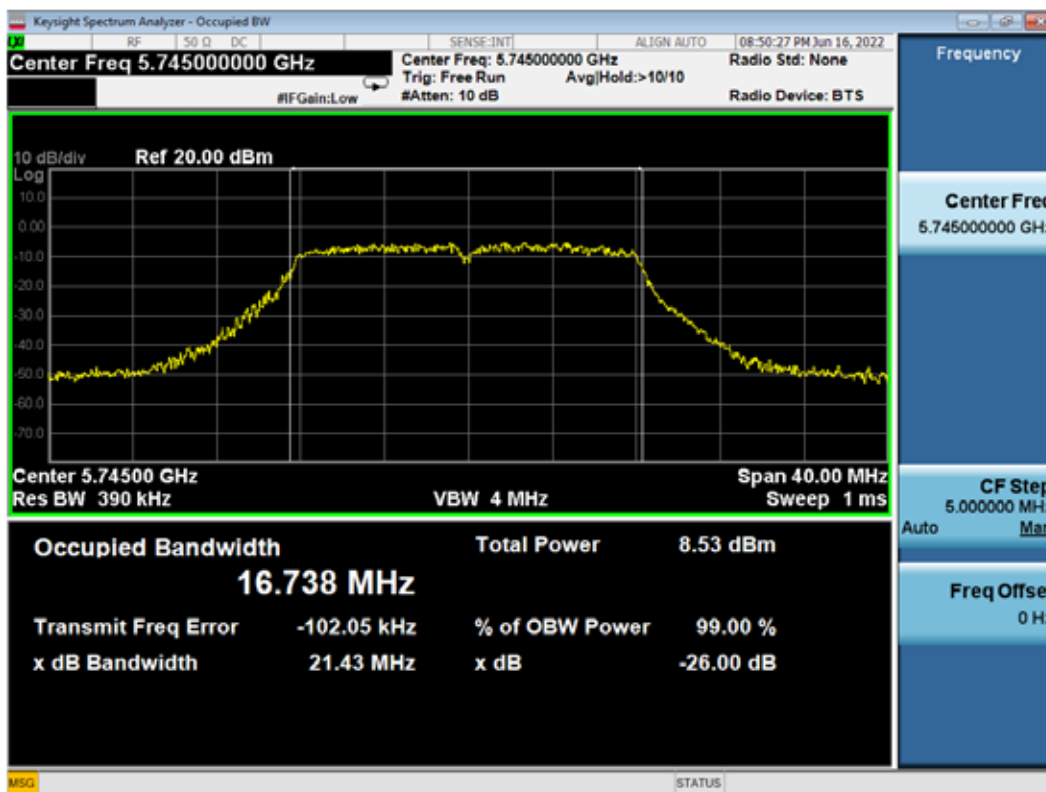


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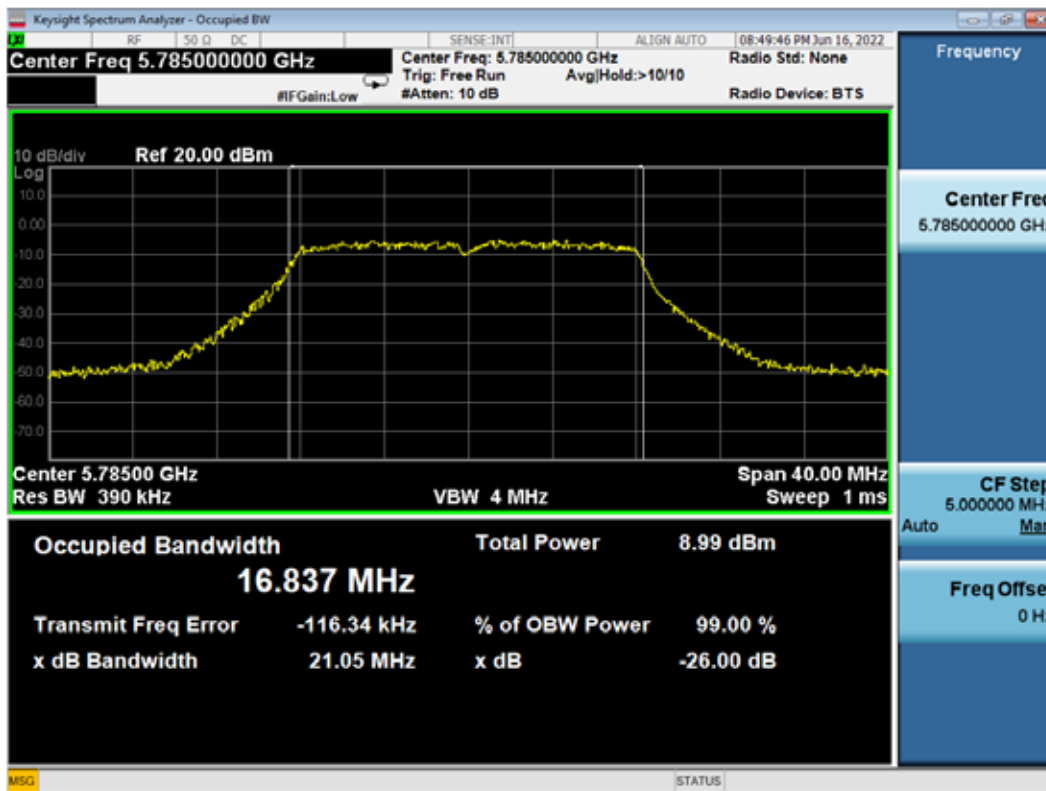


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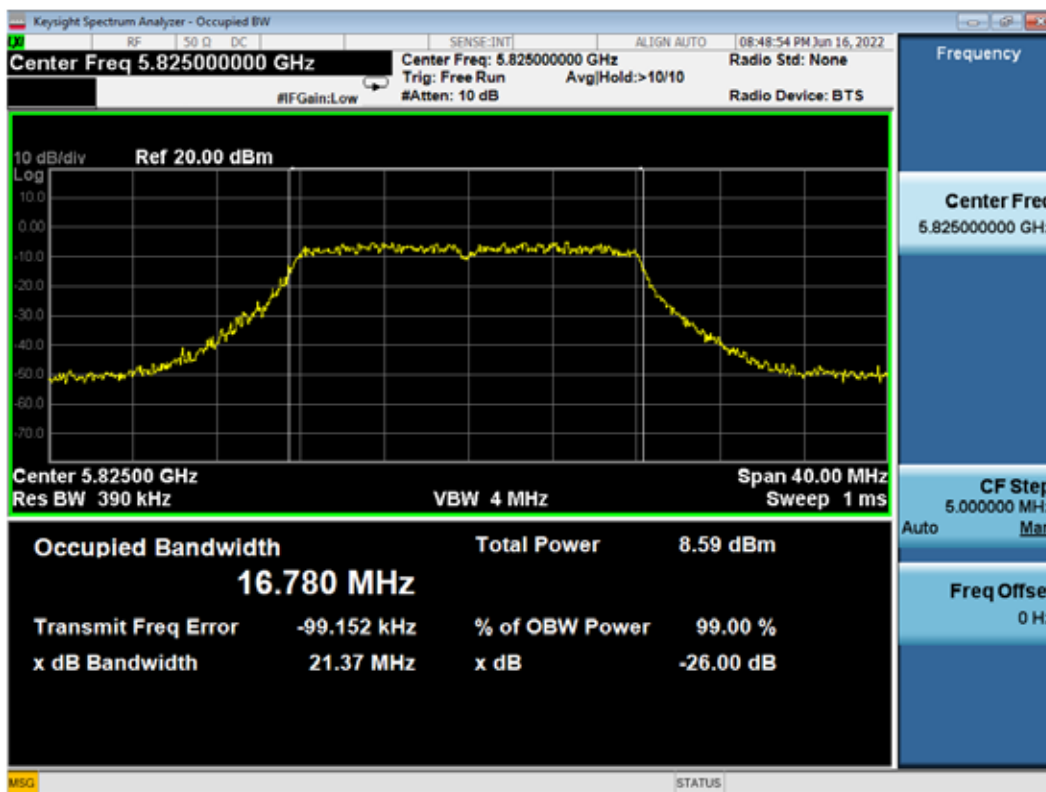


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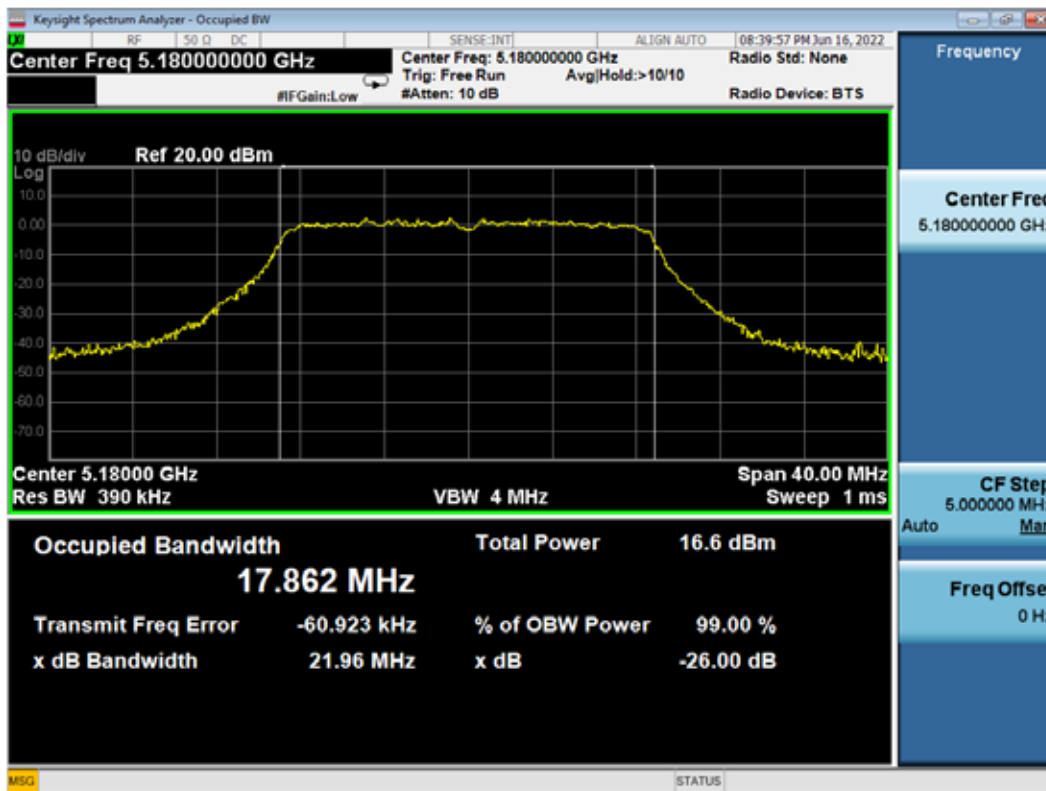


802.11a CH5825MHz

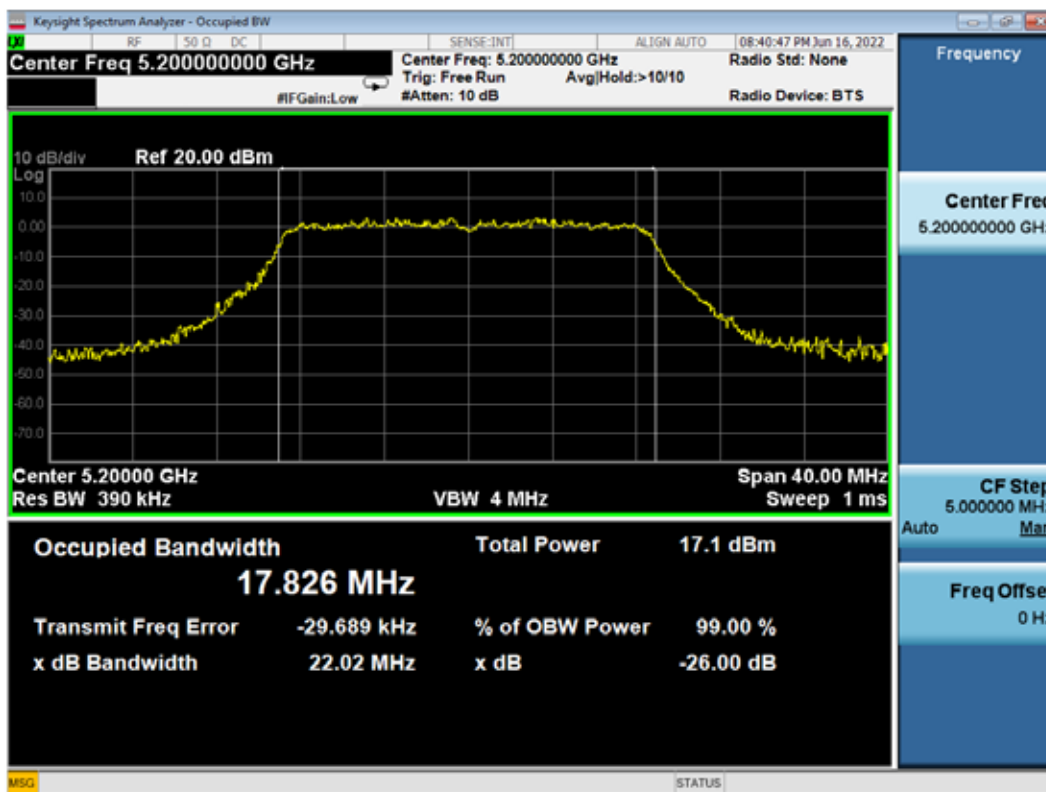


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801.11n20 CH5180MHz

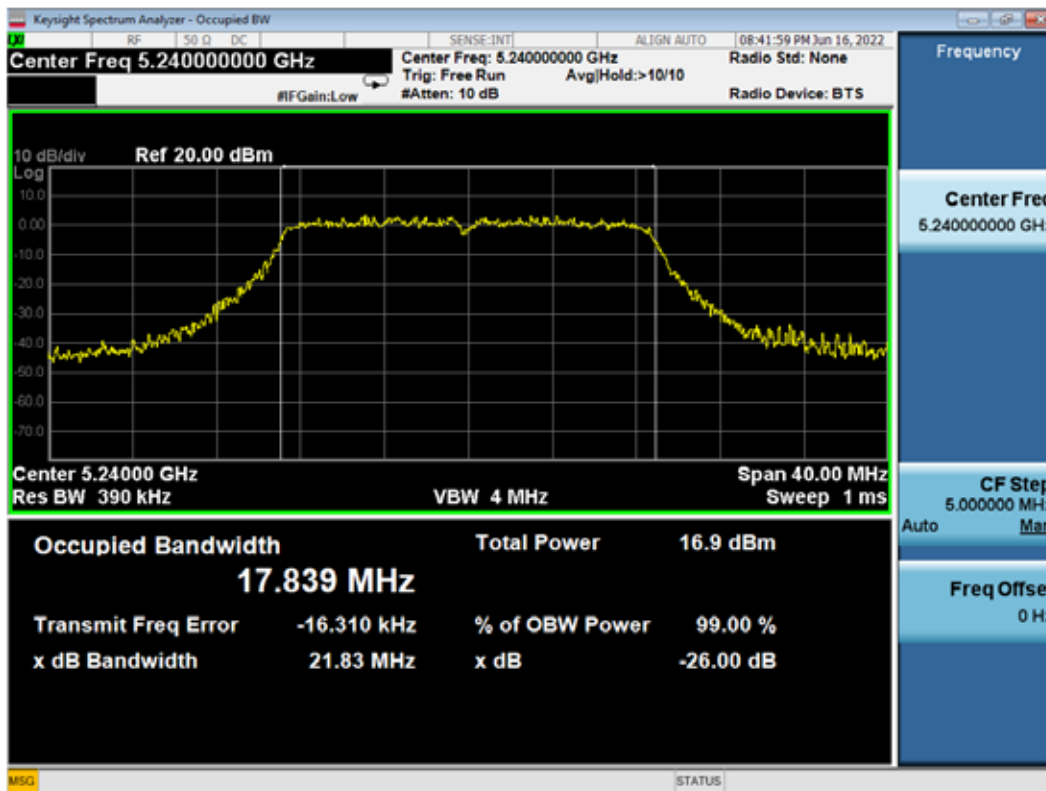


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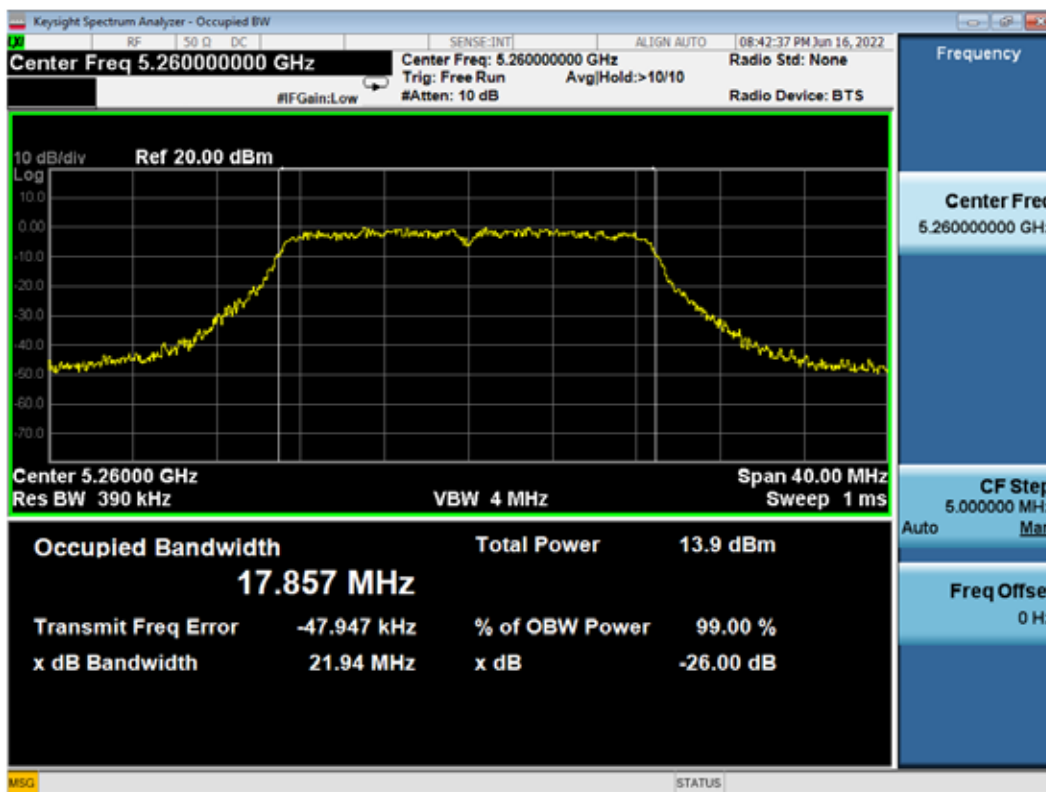


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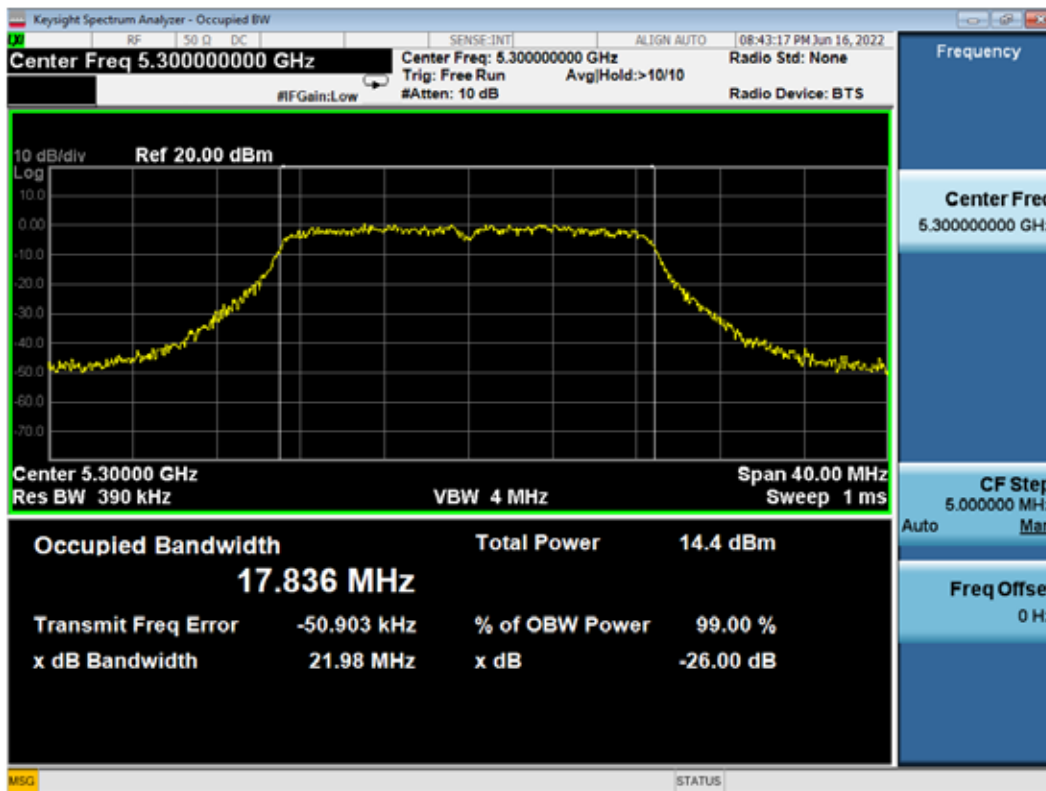


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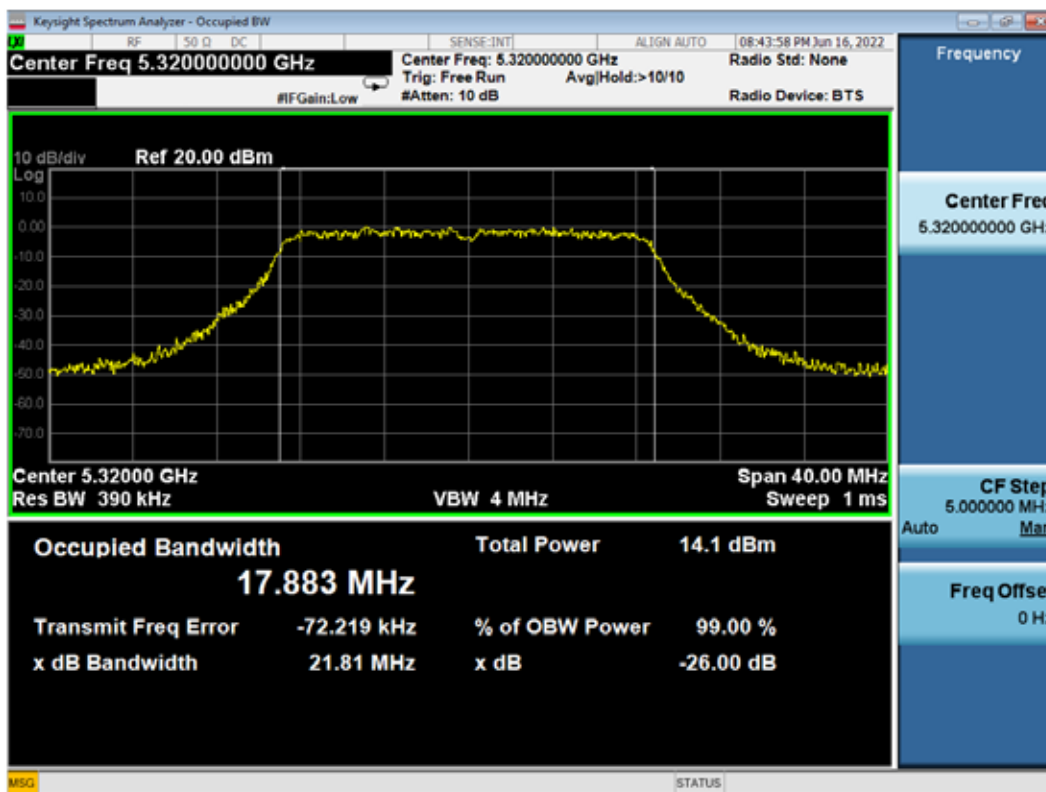


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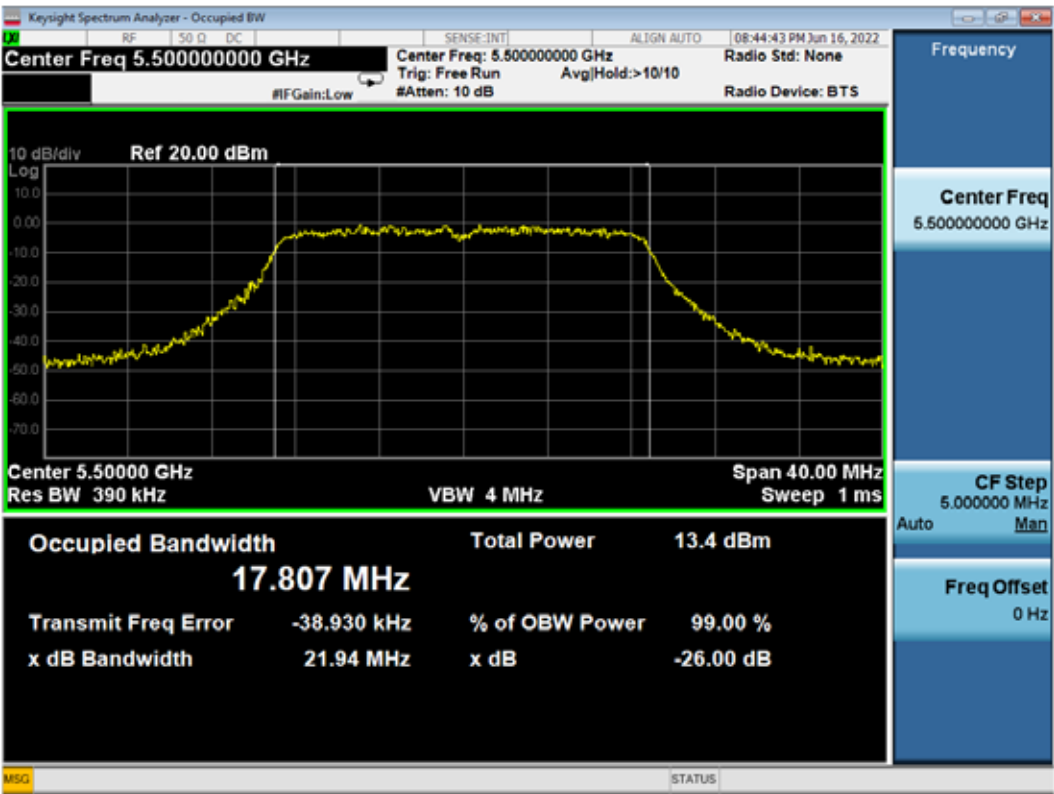


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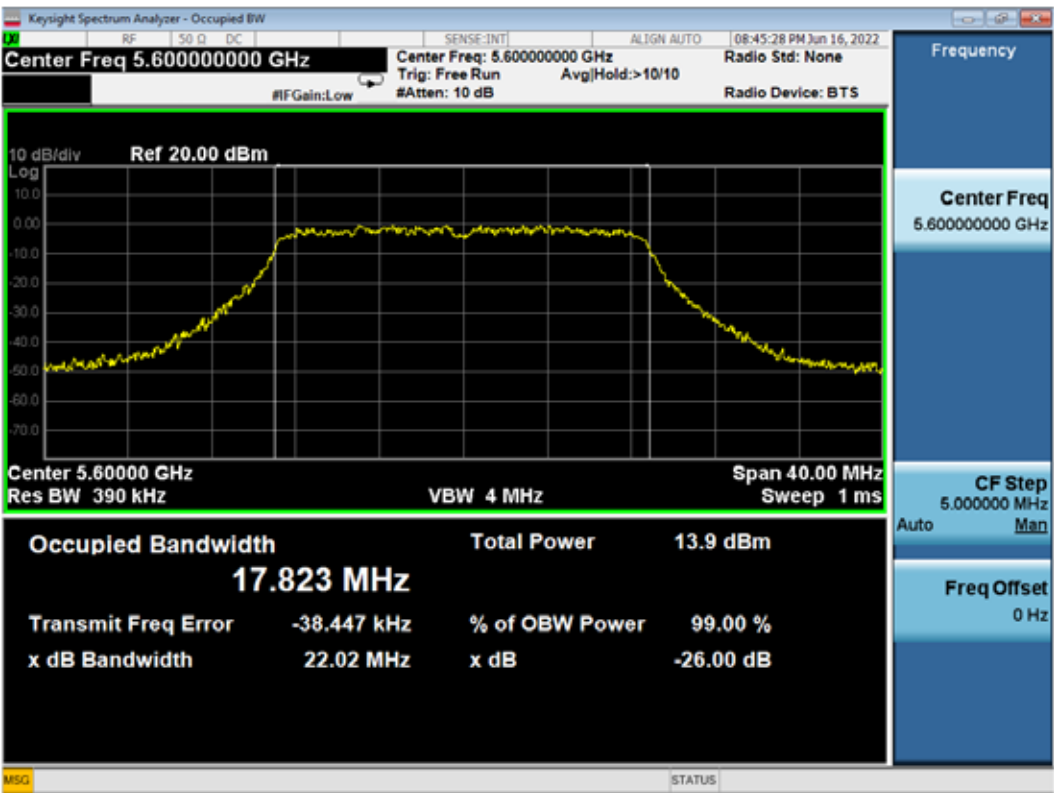


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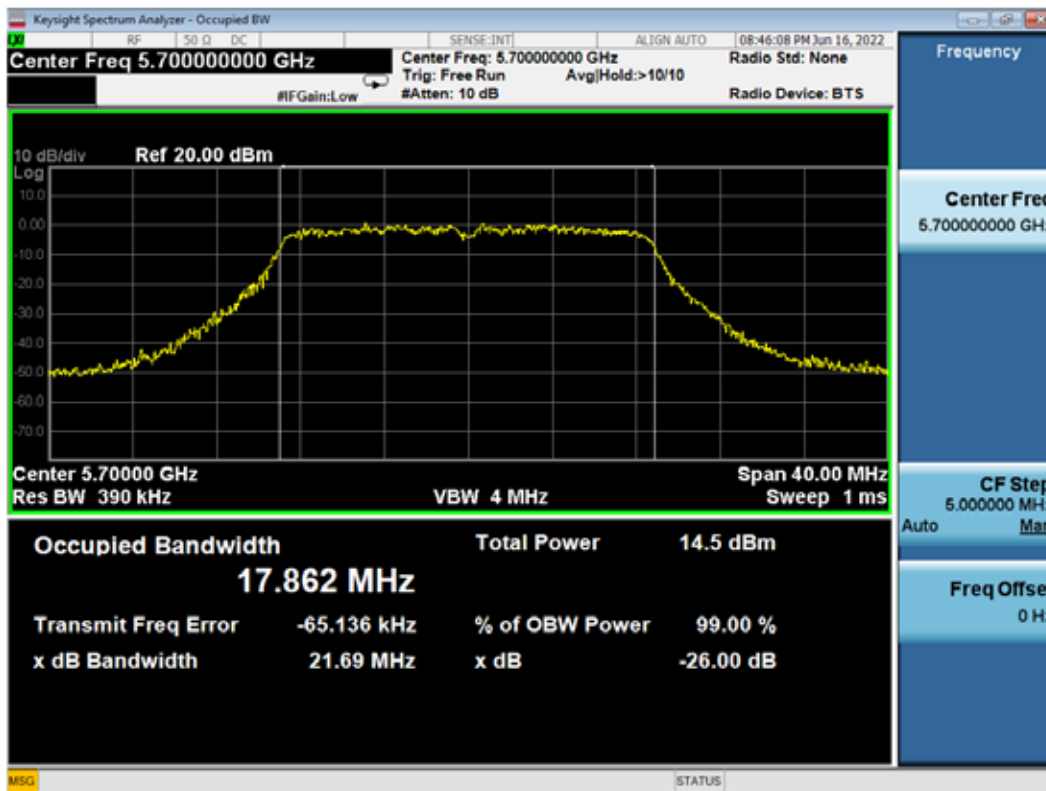


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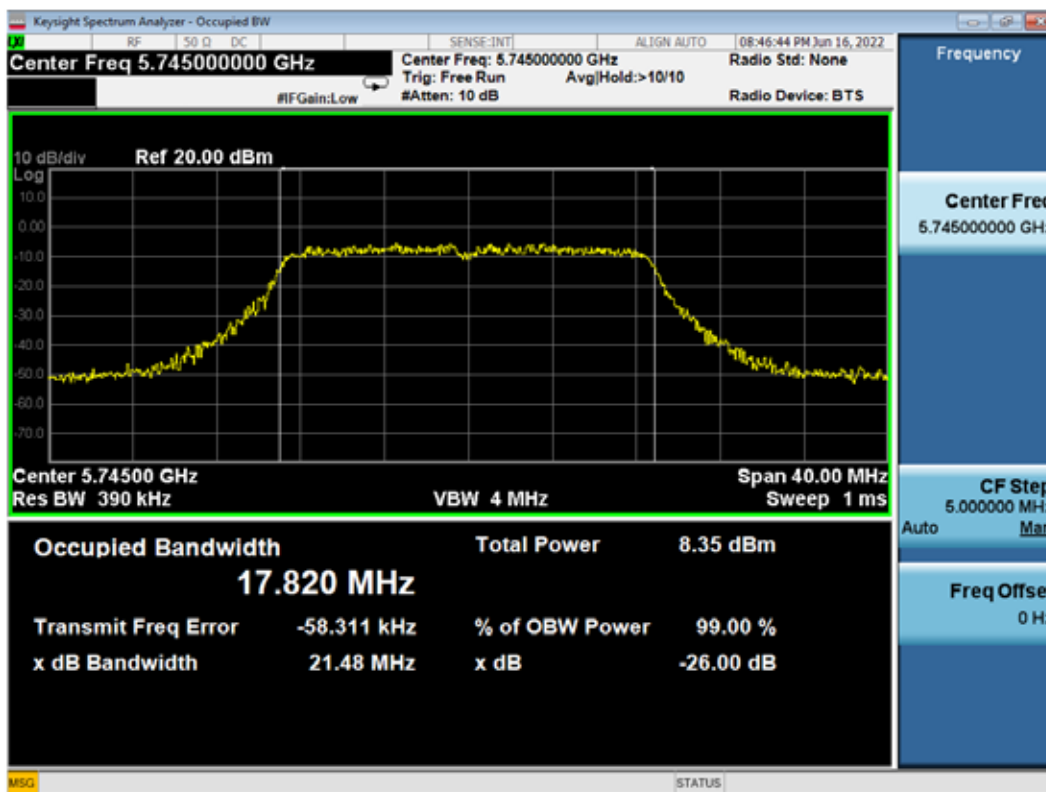


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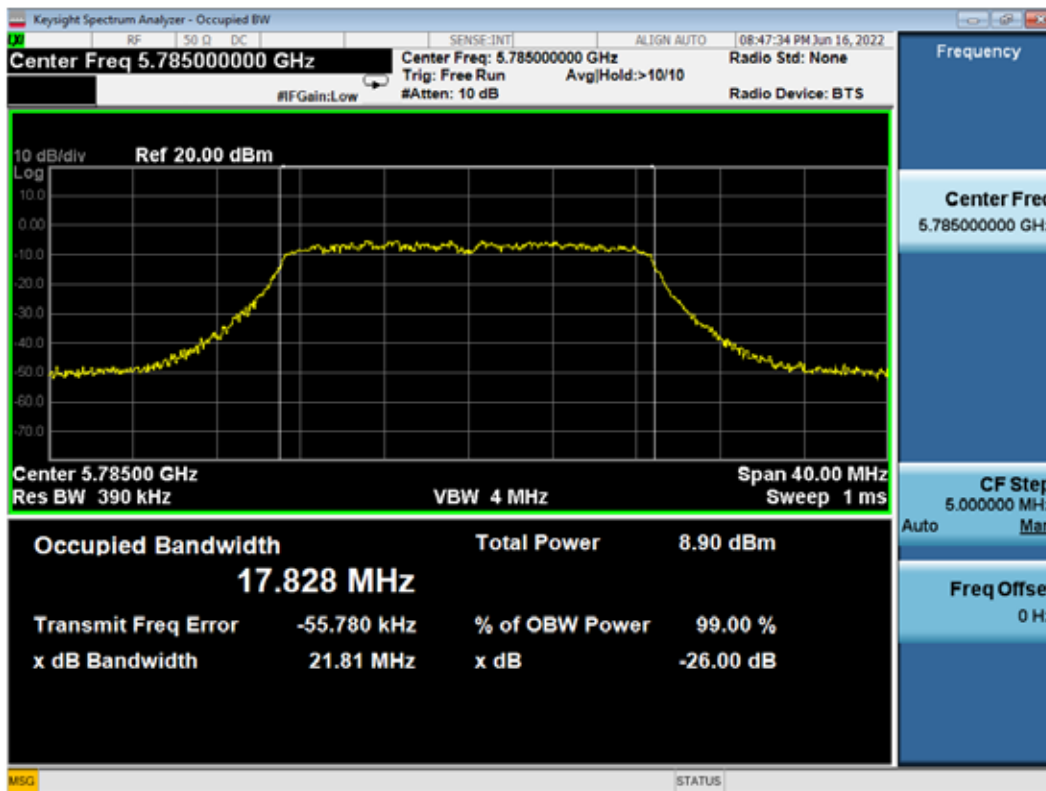


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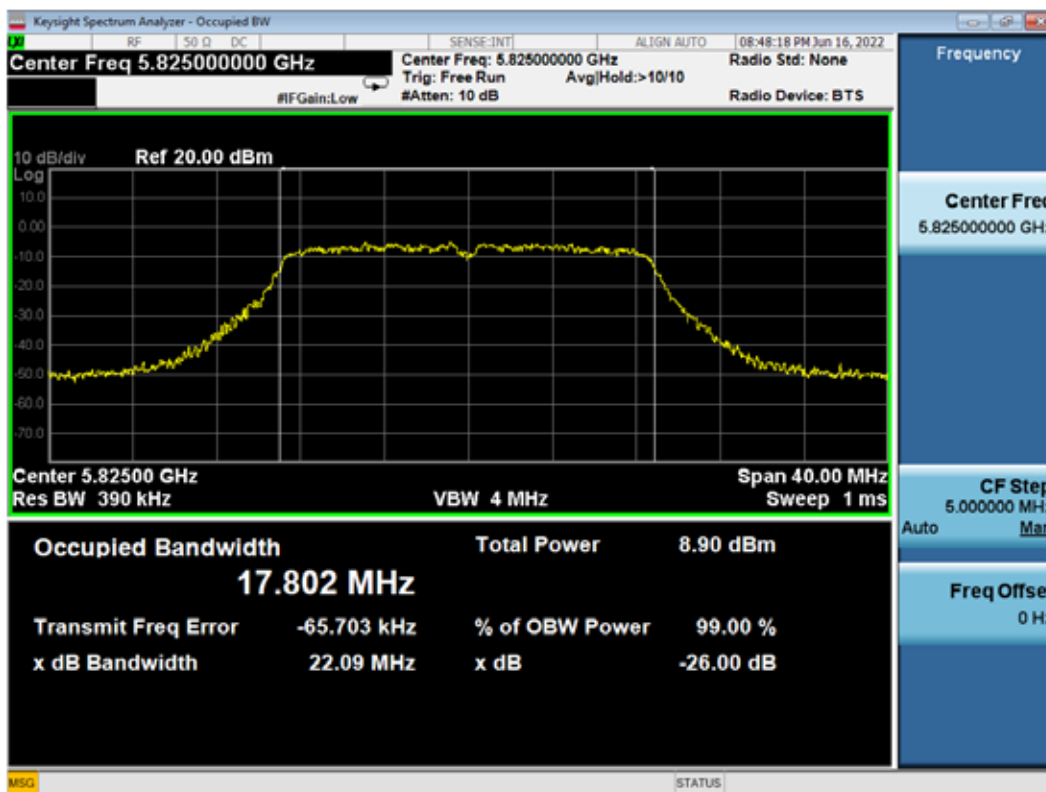


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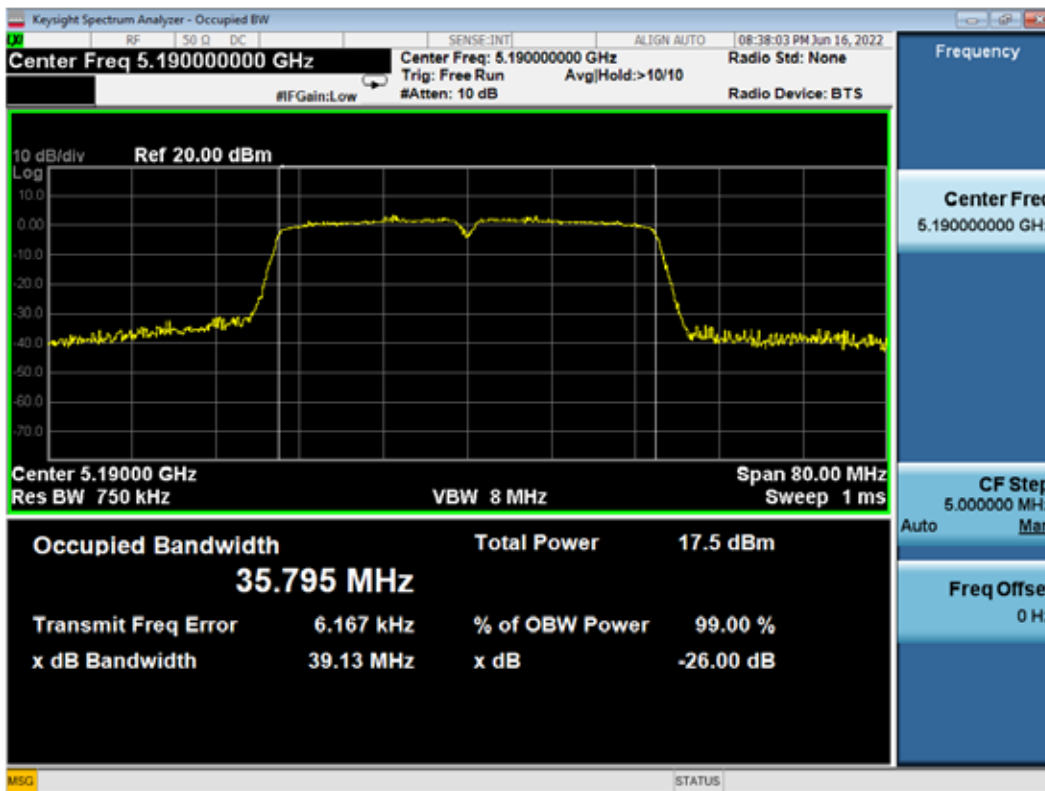


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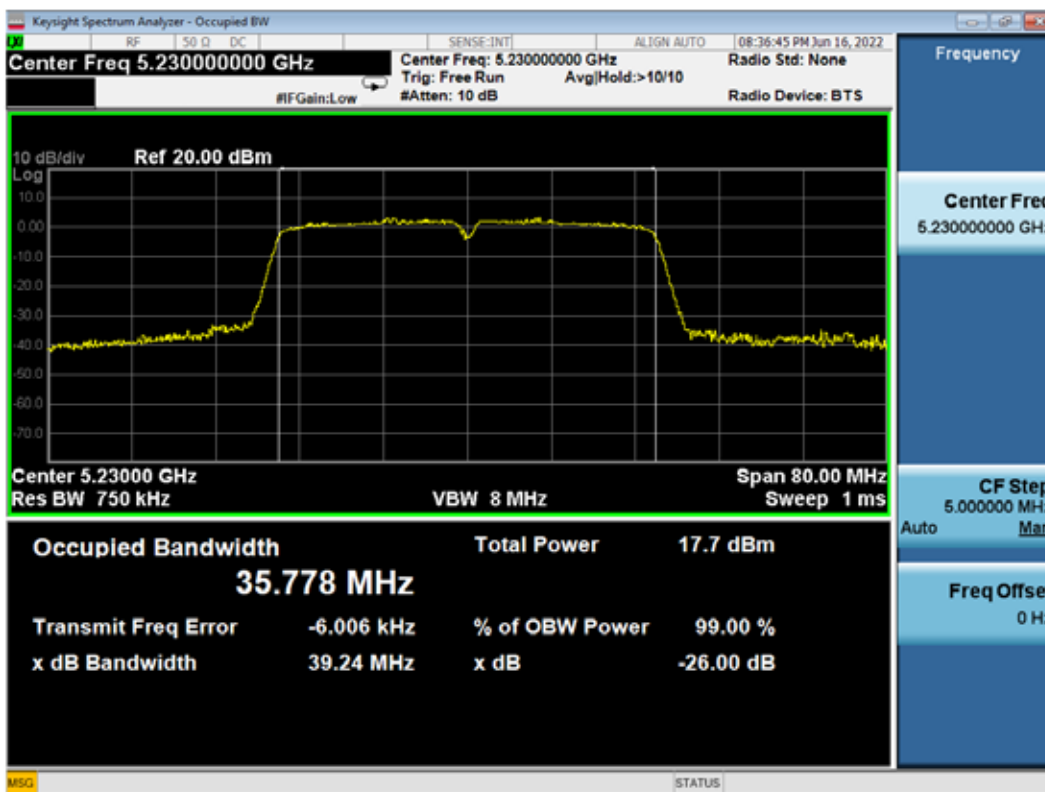


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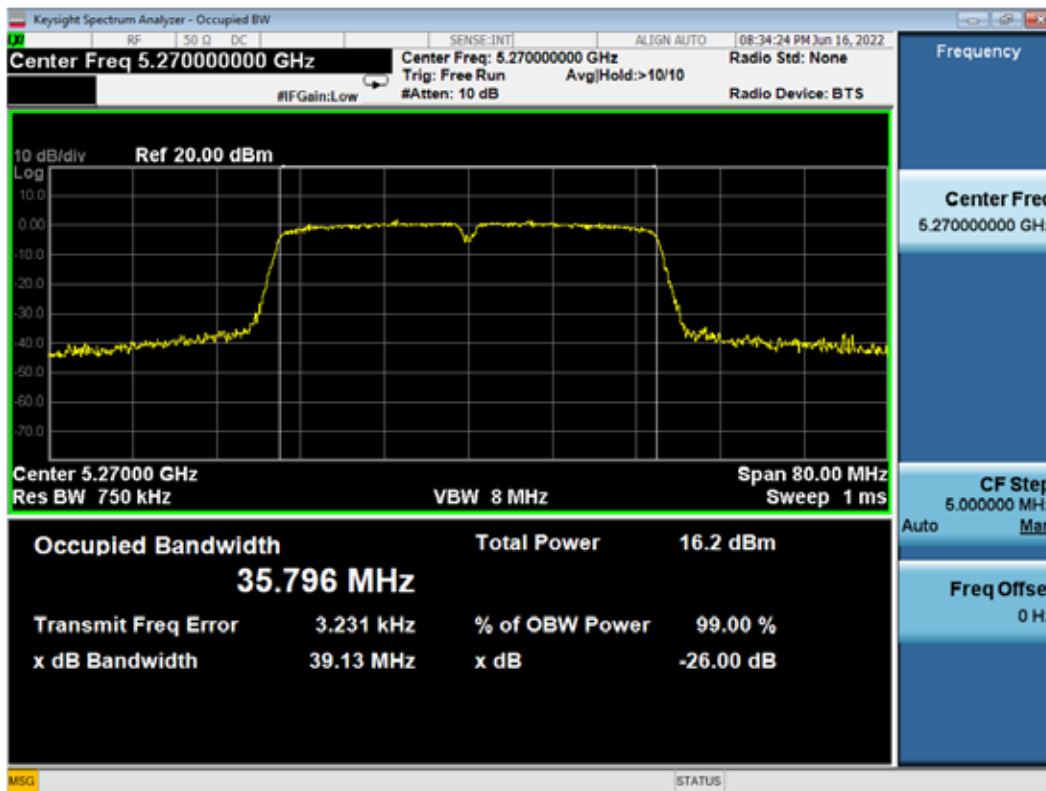


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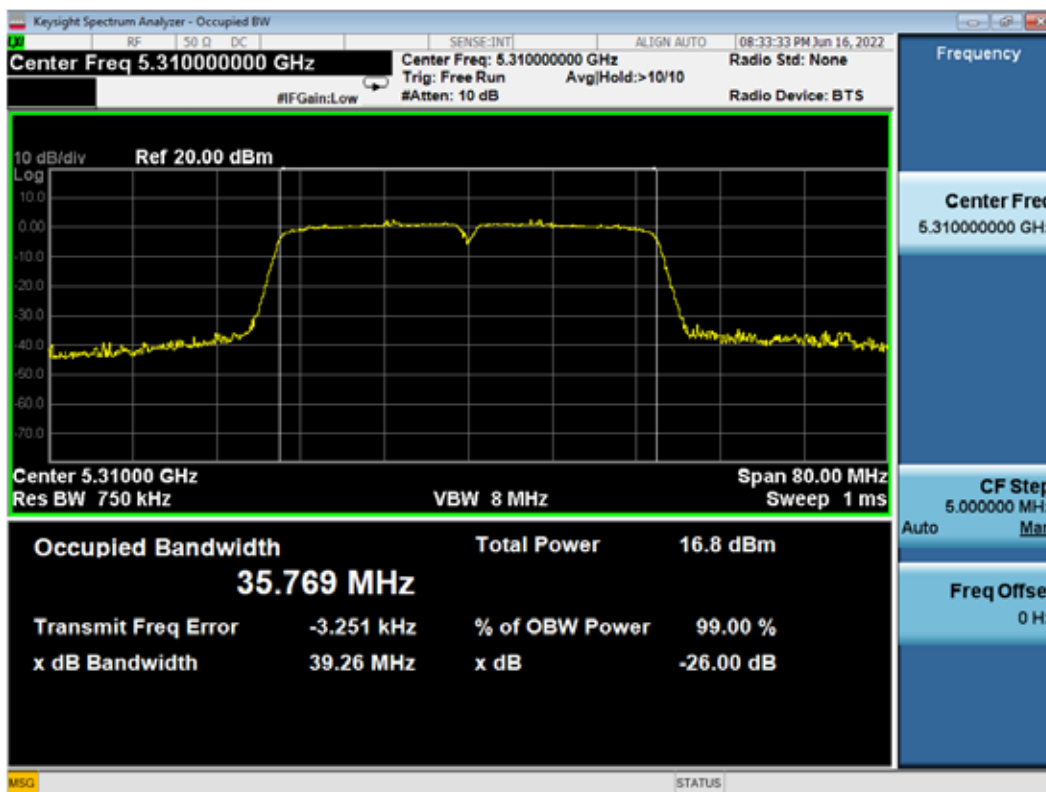


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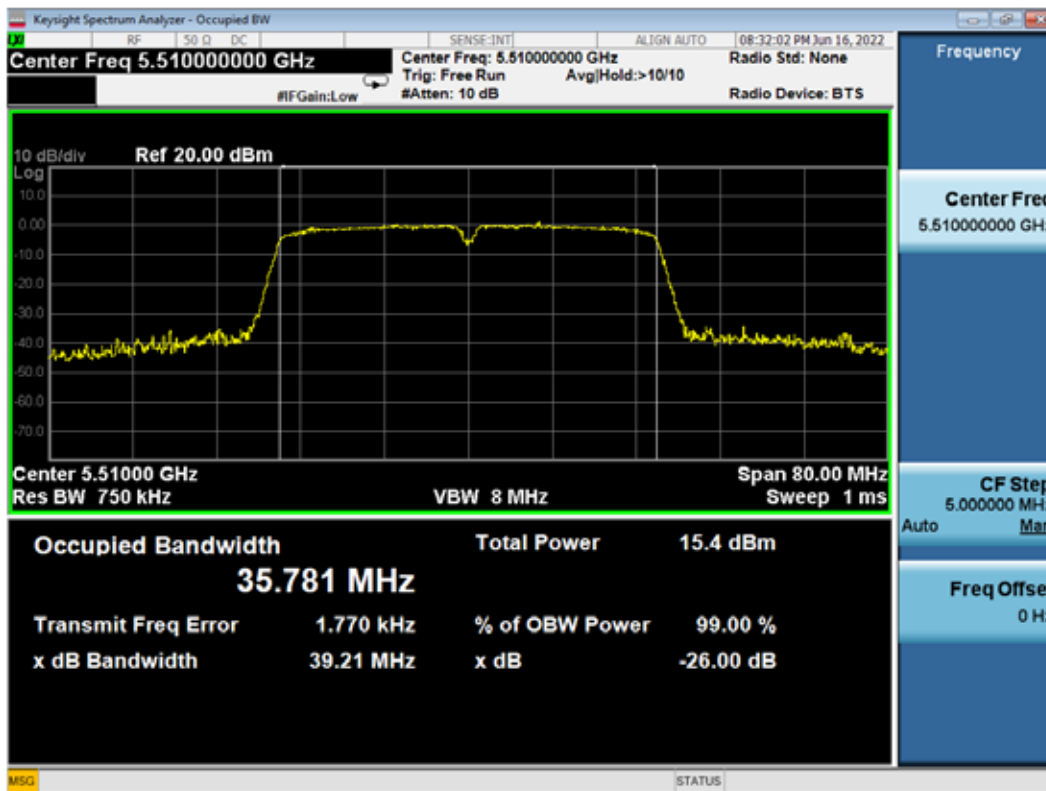


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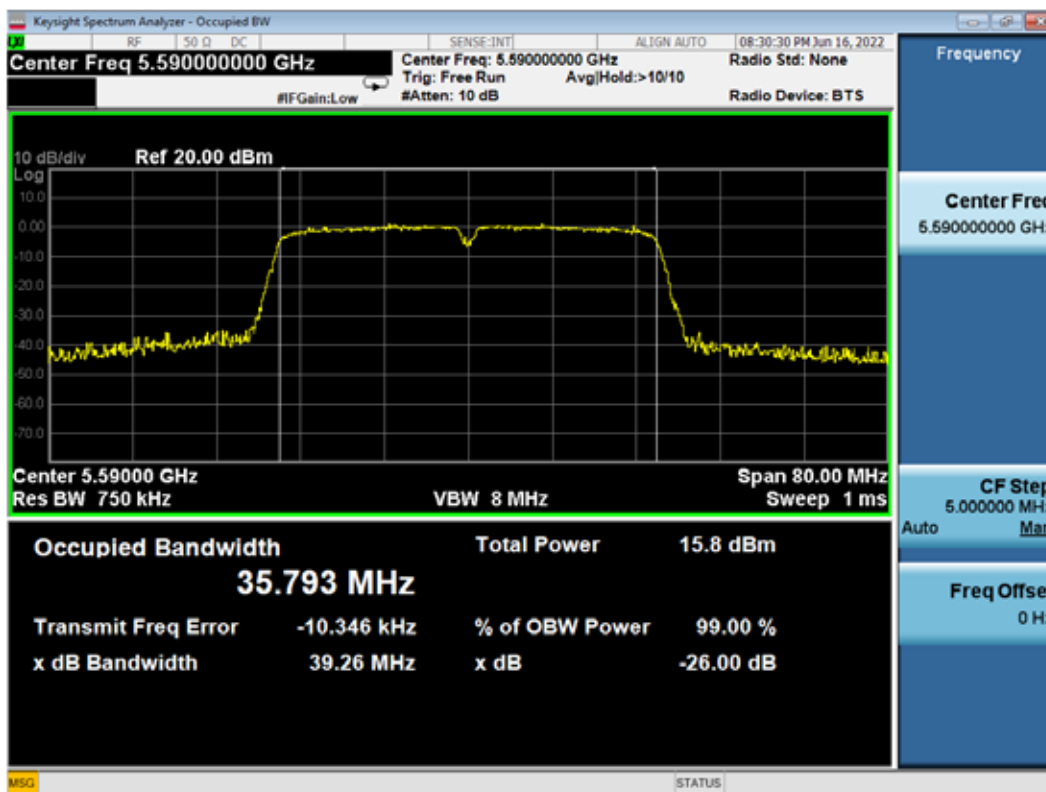


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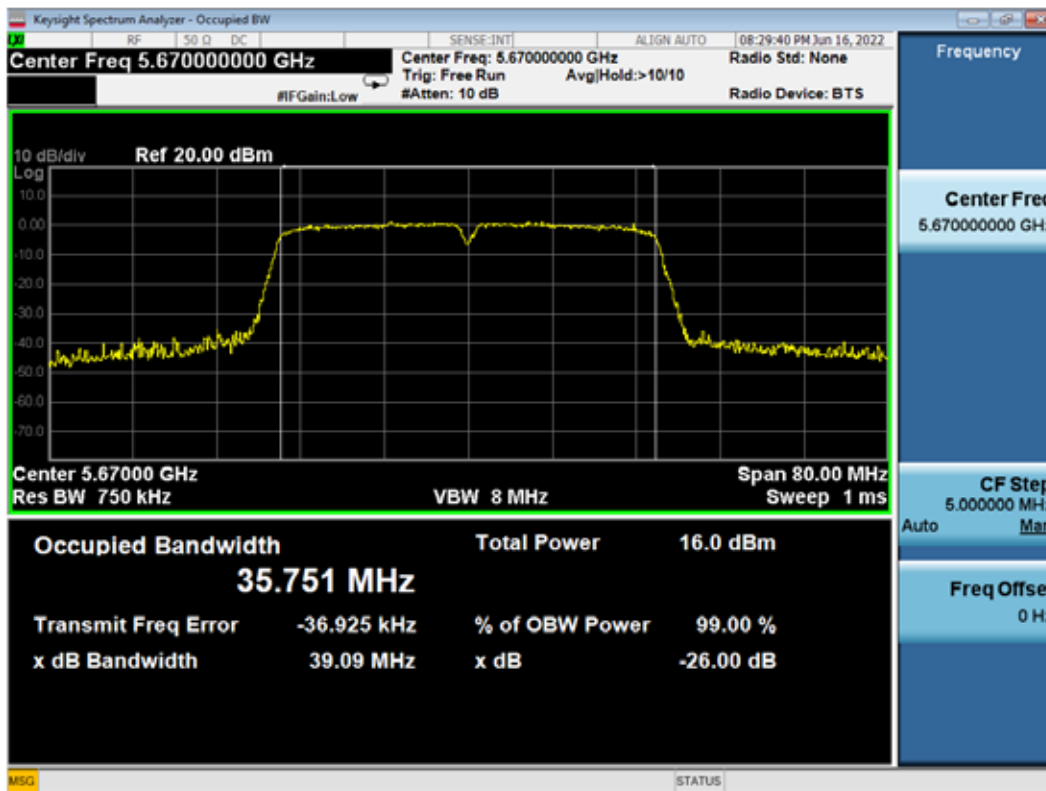


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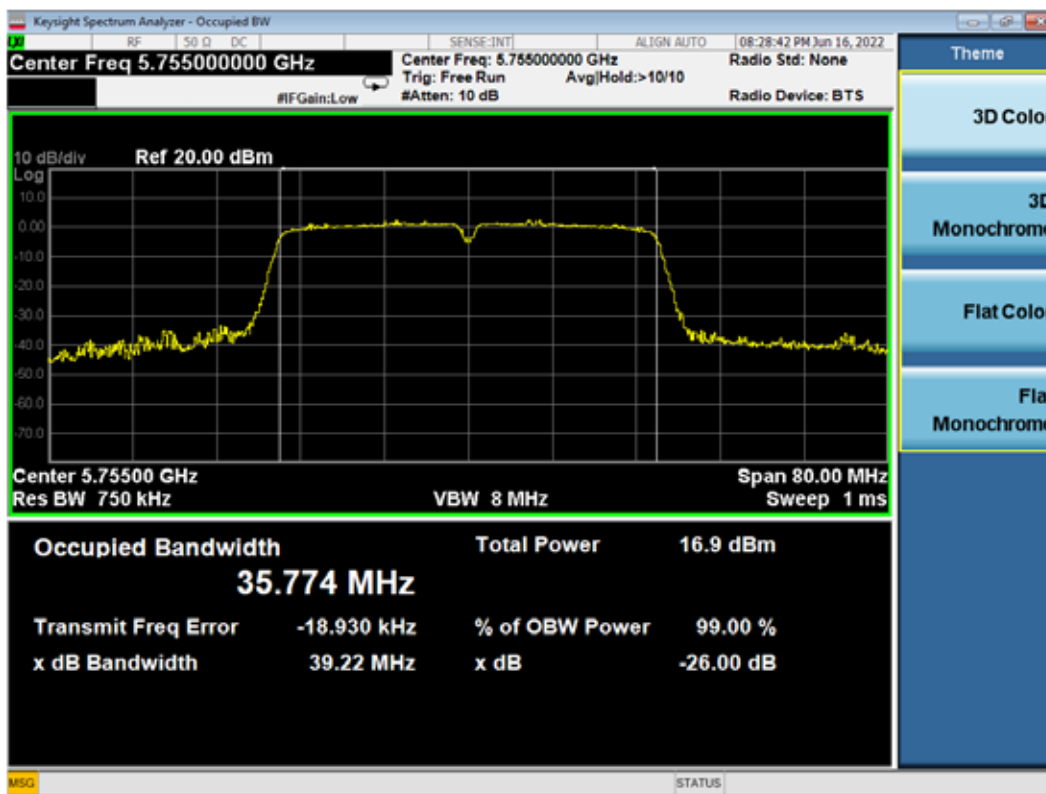


99% Bandwidth:

801.11n40 CH5670MHz



801.11n40 CH5755MHz



99% Bandwidth:

801.11n40 CH5795MHz

