

FCC Test Report

Product Name : Wireless LAN Access Point
Trade Name : SILEX TECHNOLOGY
Model No. : AP-200AC
FCC ID : N6C-AP200AC

Applicant : Silex Technology, Inc.
Address : 2-3-1 Hikaridai, Seika-cho, Soraku-gun,
Kyoto 619-0237, Japan

Date of Receipt : Feb. 01, 2021
Issued Date : May 26, 2021
Report No. : 2120022R-E3032110125
Report Version : V1.0



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Test Report Certification

Issued Date : May 26, 2021

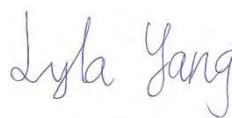
Report No. : 2120022R-E3032110125



Product Name : Wireless LAN Access Point
Applicant : Silex Technology, Inc.
Address : 2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Japan
Manufacturer : Amigo Technology Inc.
Address : No.82, Gongye 2nd Rd., Annan District, Tainan City 70955, Taiwan (R.O.C.)
Trade Name : SILEX TECHNOLOGY
Model No. : AP-200AC
FCC ID : N6C-AP200AC
EUT Rated Voltage : AC 100-240V, 50/60Hz
Test Voltage : AC 120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2019
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By

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(Lyla Yang / Engineering Adm. Specialist)

Tested By

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(Clemens Fang / Senior Engineer)

Approved By

:



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	May 26, 2021

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1. General Information

1.1. EUT Description

Product Name	Wireless LAN Access Point	
Trade Name	SILEX TECHNOLOGY	
Model No.	AP-200AC	
Frequency Range/ Channel Number	IEEE 802.11a/n/ac (20MHz)	5180~5240MHz / 4 Channels 5745~5825MHz / 5 Channels
	IEEE 802.11n/ac (40MHz)	5190~5230MHz / 2 Channels 5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel 5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11a	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in 802.11ac

Antenna Information					
Ant. No.	Manufacturer	Model No.	Ant. Type	Ant. Gain (dBi)	
				2.4G	5G
Ant 0 (2.4G)	Silex Technology	ALA150-052020-02	PIFA	2.44	--
Ant 1 (2.4G)		ALA150-052020-03	PIFA	1.98	--
Ant 0 (5G)		ALX17M-092XX3-00	PIFA	--	2.86
Ant 1 (5G)		ALX17M-092XX3-01	PIFA	--	3.74

Accessories Information	
Power Adapter	Adapter Technology, ATS036T-A120 I/P: AC 100~240V, 50-60Hz, 1A MAX. O/P: 12.0V  3.0A 36.0W Cable Out: Non-shielded, 1.5m
Power Cord	Non-shielded, 1m

Note:

1. This device including 2.4GHz b/g/n and 5GHz a/n/ac transmitting and receiving functions.
2. The EUT description is from the customer declaration.

IEEE 802.11a/n/ac (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n/ac (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz				

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter Mode 2: Non-BF Transmit_ Power by POE Mode 3: BF Transmit_ Power by Adapter
-----------	---

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac(20MHz)	36	0+1	Complies
26dB & 99% & DTS Bandwidth	a	36/44/48/149/157/165	0+1	Complies
	11ac(20MHz)	36/44/48/149/157/165	0+1	Complies
	11ac(40MHz)	38/46/151/159	0+1	Complies
	11ac(80MHz)	42/155	0+1	Complies
Maximum conducted output power	a	36/44/48/149/157/165	0+1	Complies
	11ac(20MHz)	36/44/48/149/157/165	0+1	Complies
	11ac(40MHz)	38/46/151/159	0+1	Complies
	11ac(80MHz)	42/155	0+1	Complies
Maximum power spectral density	a	36/44/48/149/157/165	0+1	Complies
	11ac(20MHz)	36/44/48/149/157/165	0+1	Complies
	11ac(40MHz)	38/46/151/159	0+1	Complies
	11ac(80MHz)	42/155	0+1	Complies
Radiated Emission	a	36/44/48/149/157/165	0+1	Complies
	11ac(20MHz)	36/44/48/149/157/165	0+1	Complies
	11ac(40MHz)	38/46/151/159	0+1	Complies
	11ac(80MHz)	42/155	0+1	Complies
Band Edge	a	36/44/48/149/157/165	0+1	Complies
	11ac(20MHz)	36/44/48/149/157/165	0+1	Complies
	11ac(40MHz)	38/46/151/159	0+1	Complies
	11ac(80MHz)	42/155	0+1	Complies

Note 1: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Note 2: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

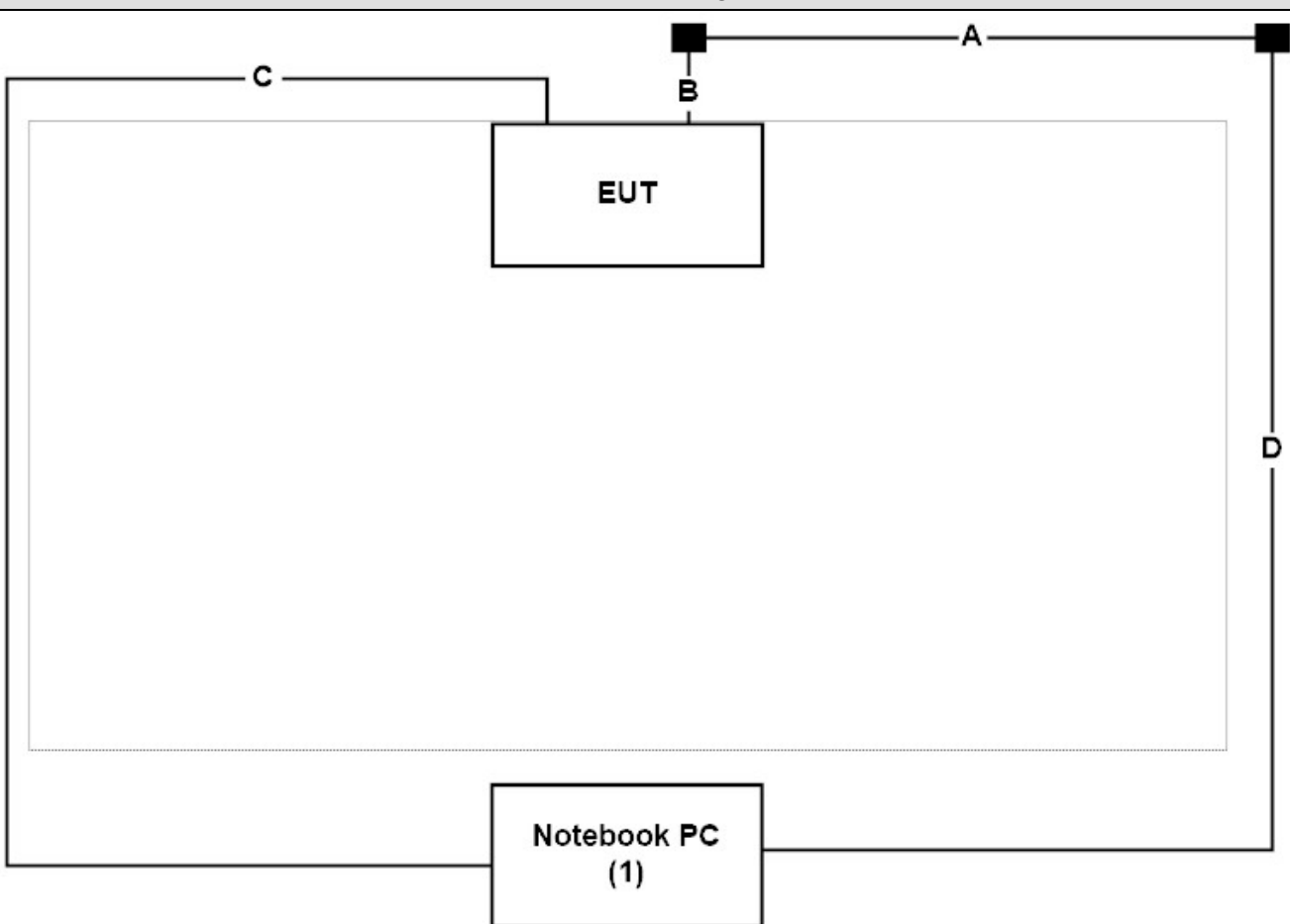
1.3. Tested System Details

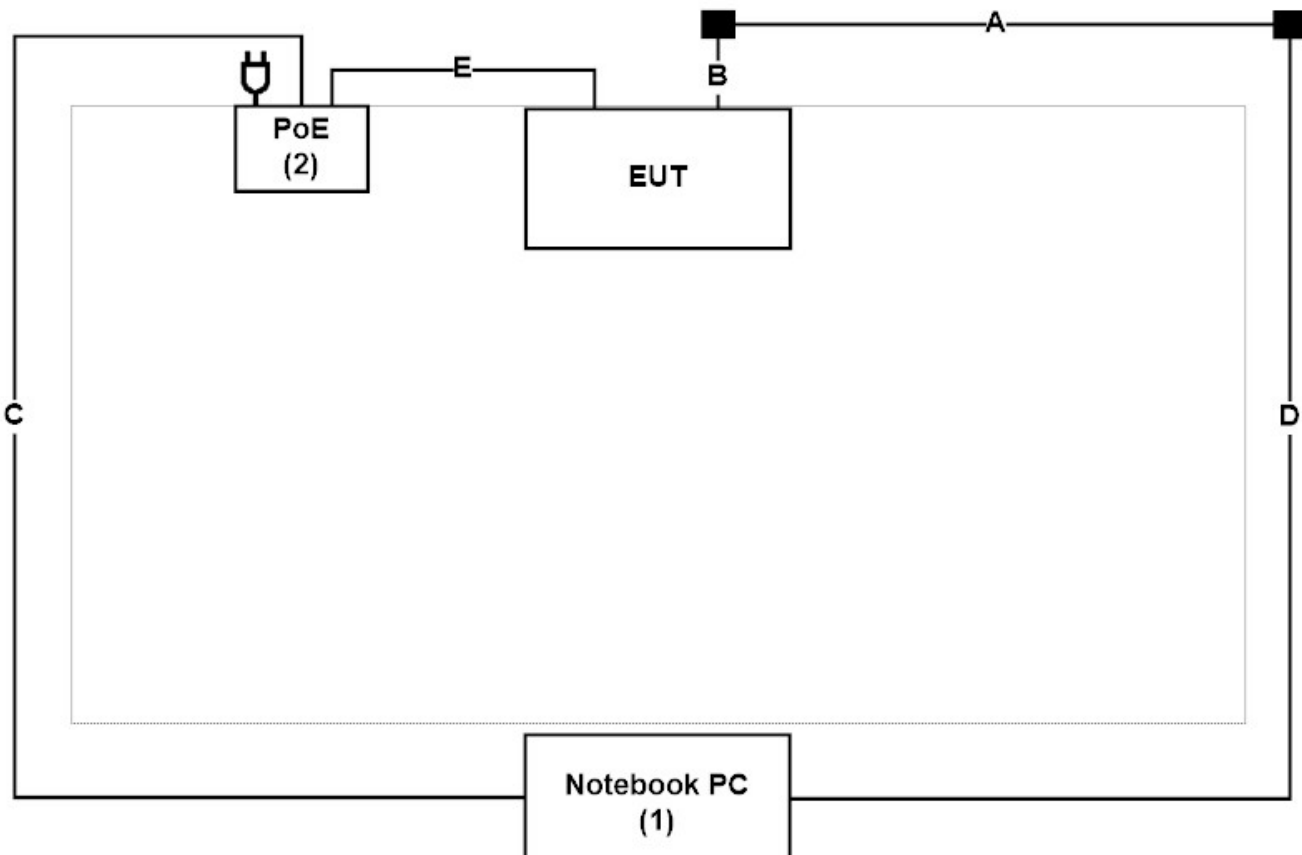
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1: Non-BF Transmit_ Power by Adapter Mode 3: BF Transmit_ Power by Adapter				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	Lenovo	80XL	PF0SXXY1	DoC	Non-Shielded, 1.8m

Test Mode		Mode 2: Non- BF Transmit_ Power by POE				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	Lenovo	80XL	PF0SXXY1	DoC	Non-Shielded, 1.8m
2	PoE	Micro Research	MPA50AT	N/A	DoC	Non-Shielded, 0.5m

1.4. Configuration of tested System

Test Mode		Mode 1: Non-BF Transmit_ Power by Adapter Mode 3: BF Transmit_ Power by Adapter	
Connection Diagram			
			
Signal Cable Type		Signal cable Description	
A	USB to RS232 Cable	Shielded, 1.6m	
B	RS232 to RJ45 Cable	Non-Shielded, 1.5m	
C	Ethernet Cable	Non-Shielded, 1.5m	
D	USB Cable	Shielded, 10m	

Test Mode		Mode 2: Non- BF Transmit_ Power by POE	
Connection Diagram			
			
Signal Cable Type		Signal cable Description	
A	USB to RS232 Cable	Shielded, 1.6m	
B	RS232 to RJ45 Cable	Non-Shielded, 1.5m	
C	Ethernet Cable	Non-Shielded, 1.5m	
D	USB Cable	Shielded, 10m	
E	Ethernet Cable	Non-Shielded, 2m	

1.5. EUT Exercise Software

1	Set the EUT as shown.
2	Open the control software QRCT.
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting and receiving signal continuously.
5	Verify that device is working properly.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	FCC PART 15E 15.407	15 - 35	2
Humidity (%RH)	Conducted Emission	25 - 75	
Temperature (°C)	FCC PART 15E 15.407	15 - 35	1
Humidity (%RH)	26dB & 99% & DTS Bandwidth	25 - 75	
Temperature (°C)	FCC PART 15E 15.407	15 - 35	1
Humidity (%RH)	Maximum conducted output power	25 - 75	
Temperature (°C)	FCC PART 15E 15.407	15 - 35	1
Humidity (%RH)	Maximum power spectral density	25 - 75	
Temperature (°C)	FCC PART 15E 15.407	15 - 35	1
Humidity (%RH)	Radiated Emission	25 - 75	
Temperature (°C)	FCC PART 15E 15.407	15 - 35	1
Humidity (%RH)	Band Edge	25 - 75	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA : FCC Registration Number: TW3024
Canada : IC Registration Number: 22397-1 / 22397-2 / 22397-3

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.8. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2020/06/22	2021/06/21

Occupied Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

Maximum conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2020/05/20	2021/05/19
Power Sensor	Keysight	N1923A	MY57240005	2020/05/20	2021/05/19

Maximum power spectral density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2021/03/04	2022/03/03
Band Reject Filter	Micro-Tronics	BRM50716	G089	2021/03/11	2022/03/10
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 2.0	CB2-H	NA	NA

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2021/03/04	2022/03/03
Band Reject Filter	Micro-Tronics	BRM50716	G089	2021/03/11	2022/03/10
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 2.0	CB2-H	NA	NA

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.9. Duty Cycle

Mode	On Time(ms)	On+Off Time(ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor(dB) Power	1/T Minimum VBW (kHz)
11a	2.060	2.160	95.37%	0.411731	0.21	0.485
VHT20	4.980	5.080	98.03%	0.172687	0.09	0.010
VHT40	2.400	2.510	95.62%	0.389250	0.19	0.417
VHT80	1.115	1.230	90.65%	0.852605	0.43	0.897

Note:

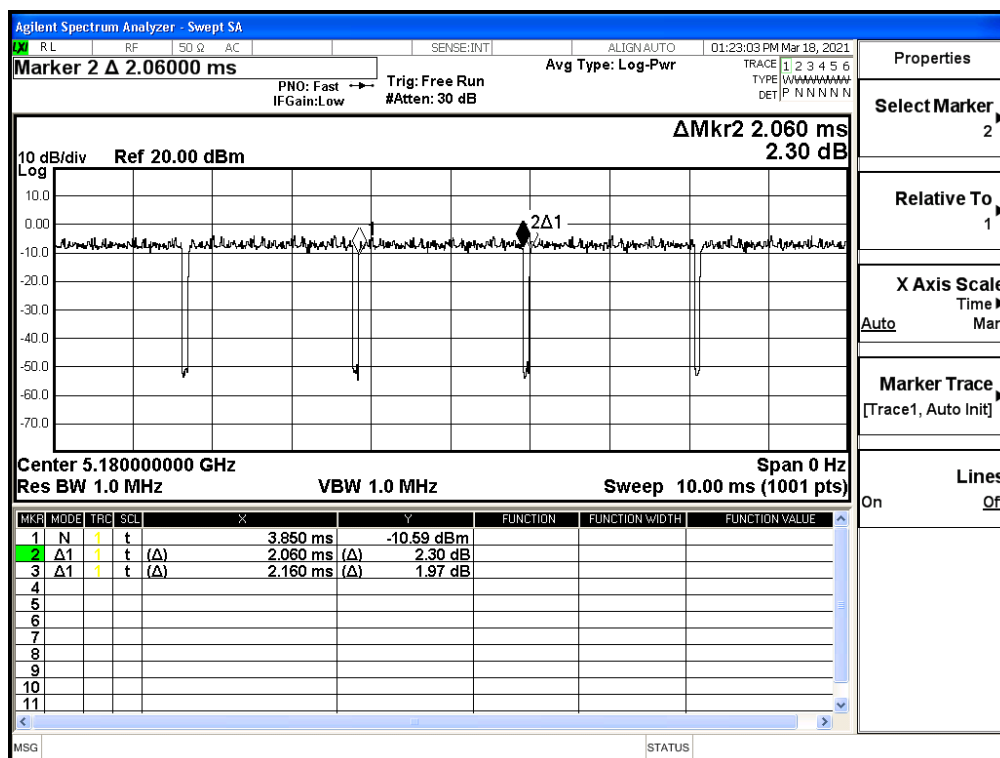
Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

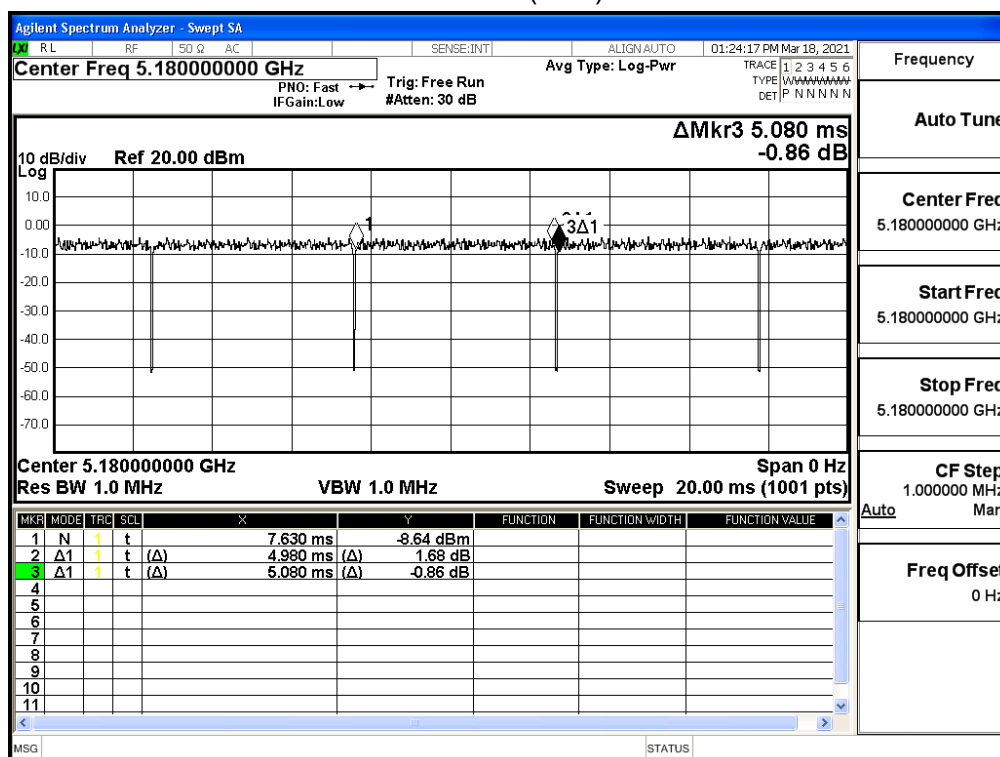
If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

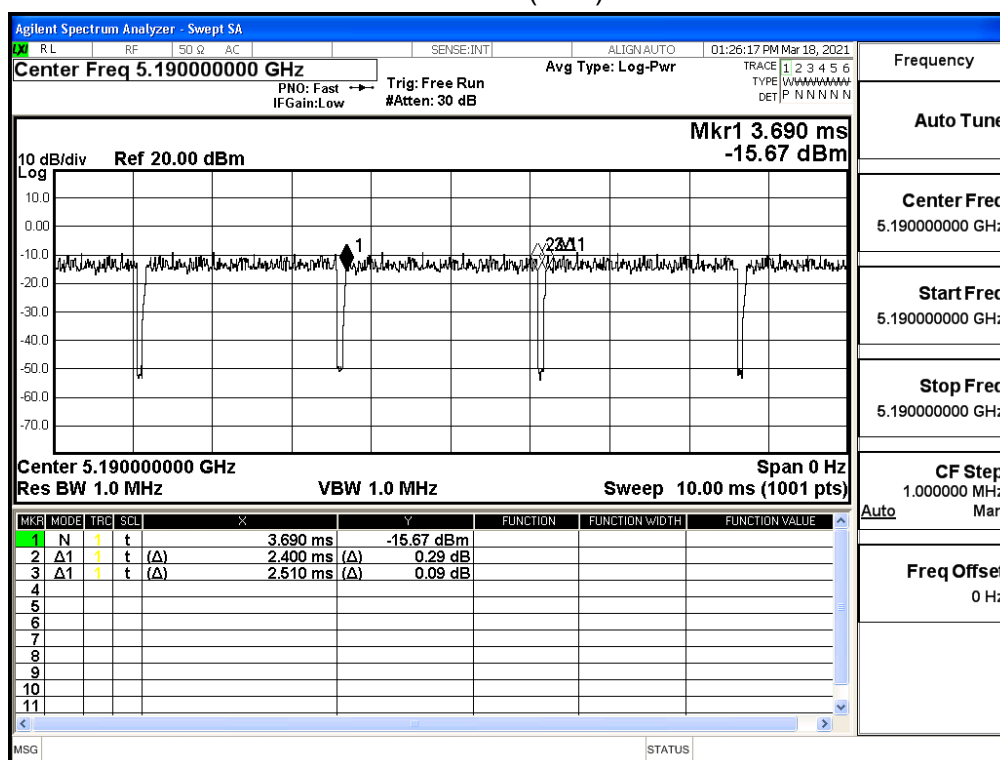
802.11a



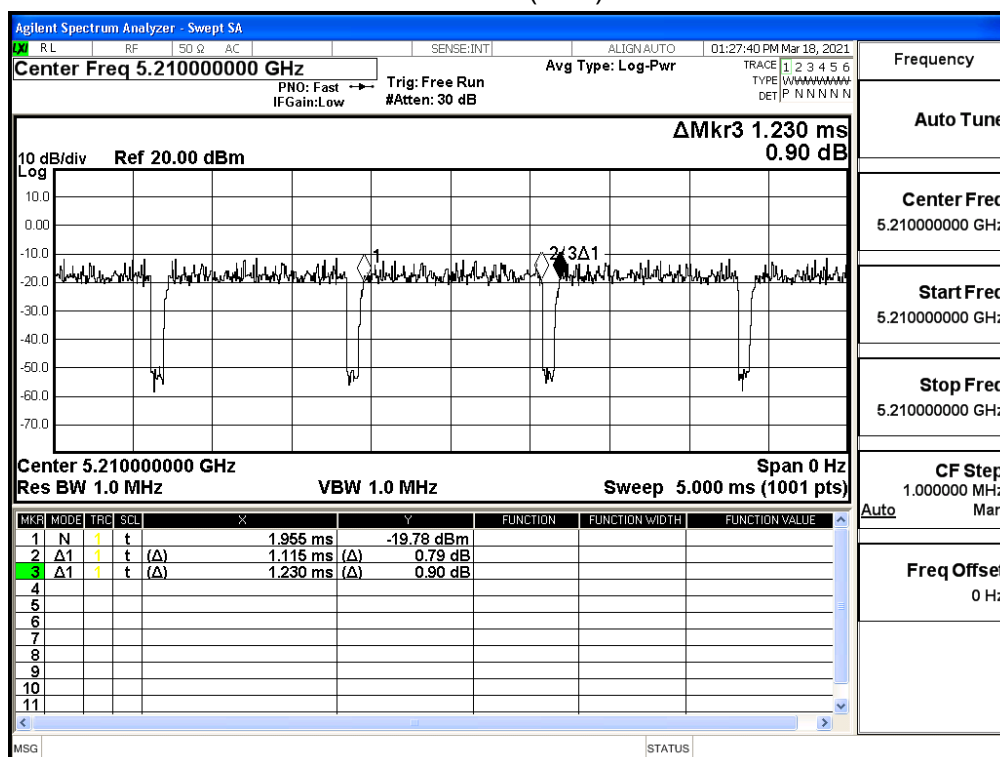
802.11ac(20M)



802.11ac(40M)



802.11ac(80M)

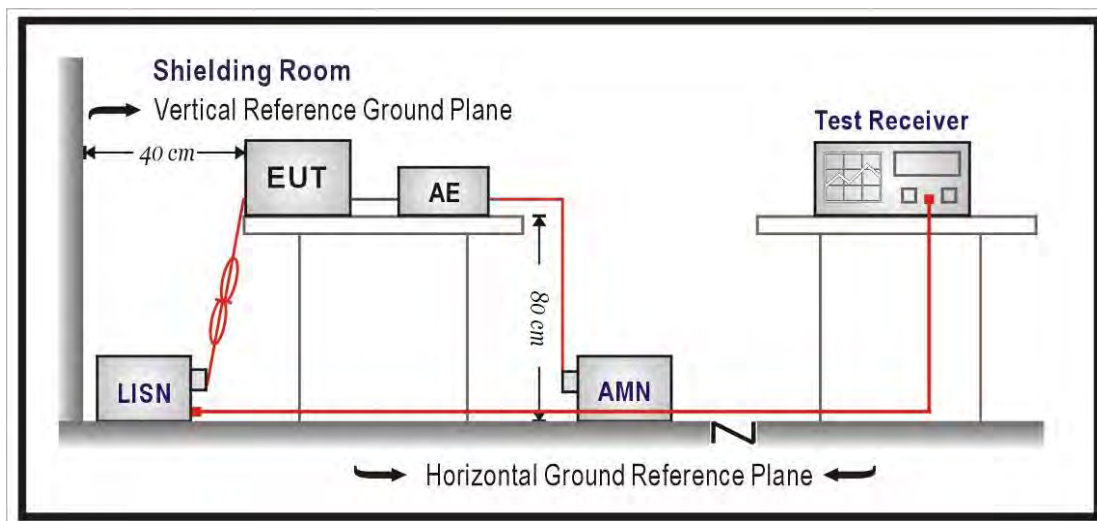


1.10. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
26dB & 99% & DTS Bandwidth	± 50 Hz
Maximum conducted output power	± 1.27 dB
Maximum power spectral density	± 1.27 dB
Radiated Emission	30MHz~1GHz as ± 3.43 dB 1GHz~26.5GHz as ± 3.65 dB
Band Edge	± 3.65 dB

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

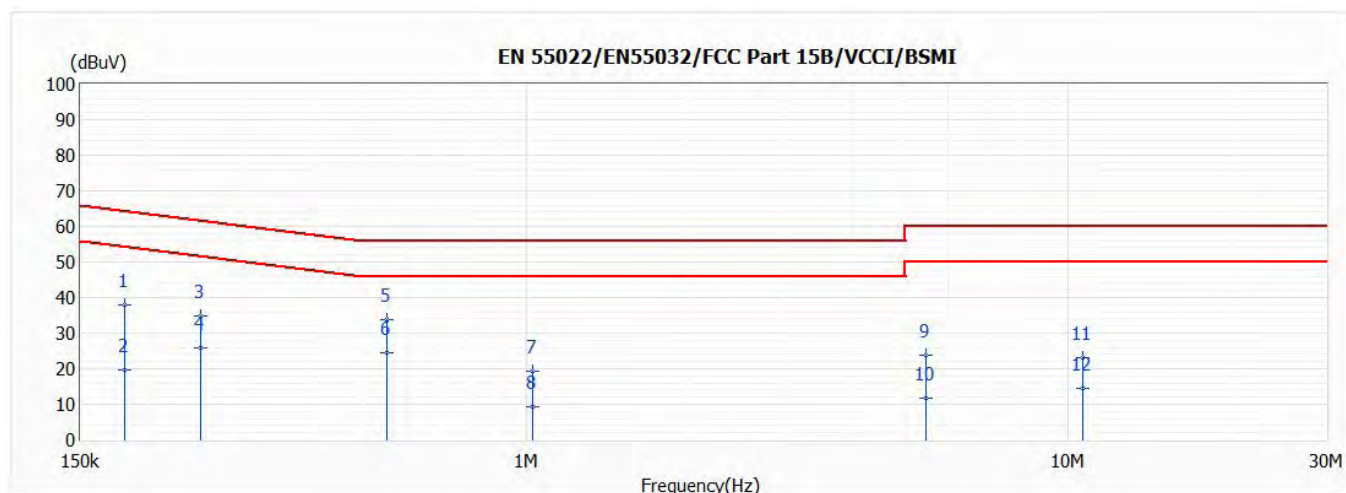
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.407: 2019.

2.5. Test Result

Model No	AP-200AC	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/3
Test Mode	Mode 1: Non-BF Transmit Power by Adapter	Engineer	Max Chang
Phase	L	Temperature (°C)	22.6
Test Condition	802.11ac,Ant0+1,Ch 36,5.18G,BW20M	Humidity (%RH)	69

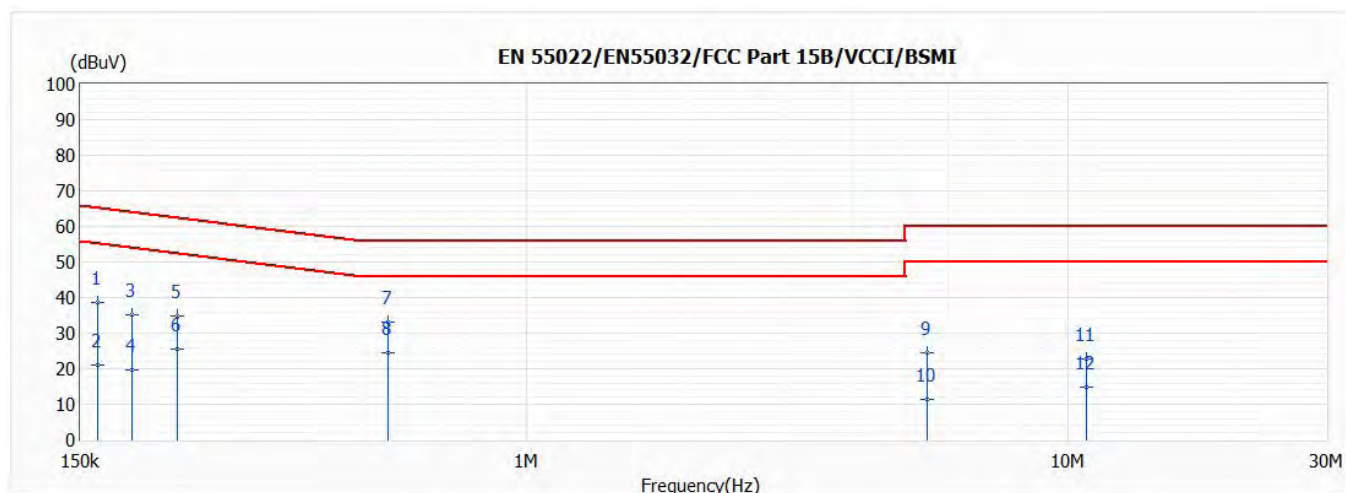


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.181	38.01	64.44	-26.43	28.37	9.64	QP
2	0.181	19.75	54.44	-34.70	10.10	9.64	AV
3	0.251	34.71	61.74	-27.03	25.05	9.65	QP
4	0.251	25.92	51.74	-25.82	16.27	9.65	AV
5	0.551	33.70	56.00	-22.30	24.00	9.69	QP
*6	0.551	24.55	46.00	-21.45	14.86	9.69	AV
7	1.027	19.43	56.00	-36.57	9.69	9.74	QP
8	1.027	9.38	46.00	-36.62	-0.36	9.74	AV
9	5.456	23.80	60.00	-36.20	13.84	9.96	QP
10	5.456	11.68	50.00	-38.32	1.72	9.96	AV
11	10.636	23.07	60.00	-36.93	12.93	10.14	QP
12	10.636	14.41	50.00	-35.59	4.28	10.14	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	AP-200AC	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/3
Test Mode	Mode 1: Non-BF Transmit Power by Adapter	Engineer	Max Chang
Phase	N	Temperature (°C)	22.6
Test Condition	802.11ac,Ant0+1,Ch 36,5.18G,BW20M	Humidity (%RH)	69

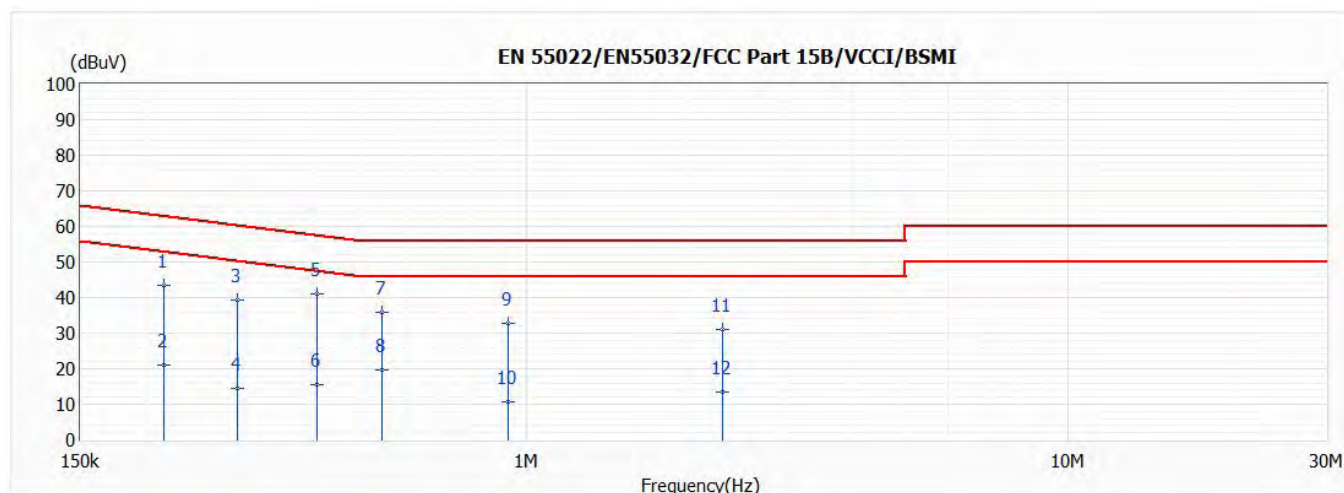


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.161	38.77	65.40	-26.63	29.13	9.64	QP
2	0.161	20.88	55.40	-34.52	11.24	9.64	AV
3	0.187	35.29	64.18	-28.89	25.65	9.63	QP
4	0.187	19.82	54.18	-34.36	10.18	9.63	AV
5	0.226	34.98	62.60	-27.61	25.34	9.64	QP
6	0.226	25.48	52.60	-27.11	15.84	9.64	AV
7	0.556	33.20	56.00	-22.80	23.51	9.68	QP
*8	0.556	24.65	46.00	-21.35	14.97	9.68	AV
9	5.487	24.49	60.00	-35.51	14.54	9.95	QP
10	5.487	11.50	50.00	-38.50	1.54	9.95	AV
11	10.833	22.86	60.00	-37.14	12.68	10.18	QP
12	10.833	14.82	50.00	-35.18	4.65	10.18	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	AP-200AC	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/3
Test Mode	Mode 2: Non-BF Transmit Power by POE	Engineer	Max Chang
Phase	L	Temperature (°C)	22.6
Test Condition	802.11ac,Ant0+1,Ch 36,5.18G,BW20M	Humidity (%RH)	69

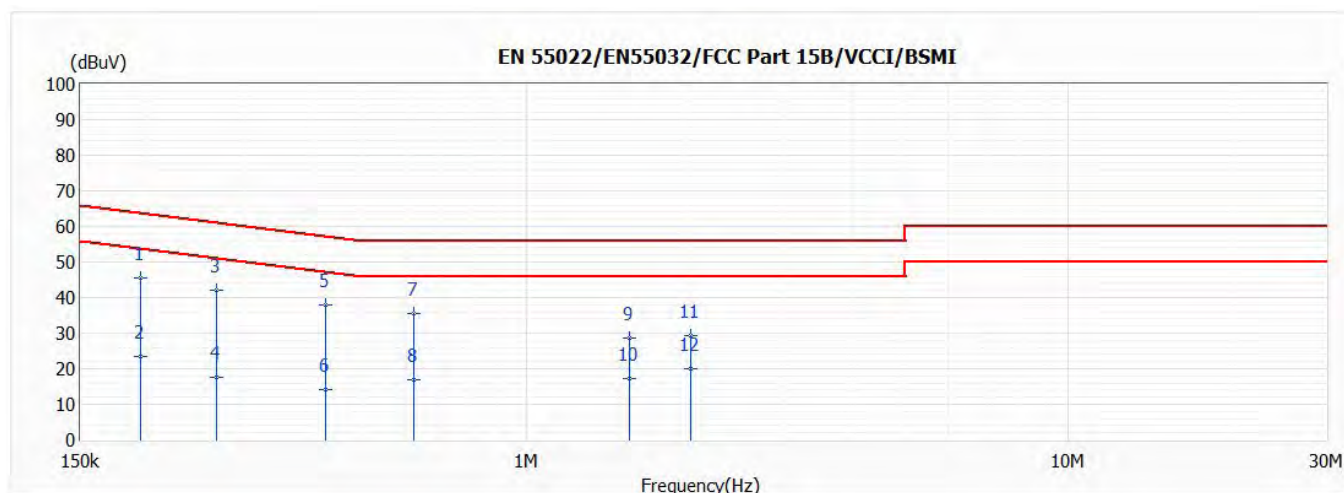


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.214	43.47	63.06	-19.59	33.82	9.65	QP
2	0.214	21.03	53.06	-32.02	11.39	9.65	AV
3	0.292	39.15	60.48	-21.33	29.49	9.66	QP
4	0.292	14.62	50.48	-35.85	4.96	9.66	AV
*5	0.410	40.99	57.64	-16.65	31.31	9.68	QP
6	0.410	15.56	47.64	-32.08	5.88	9.68	AV
7	0.541	35.74	56.00	-20.26	26.04	9.69	QP
8	0.541	19.75	46.00	-26.25	10.06	9.69	AV
9	0.922	32.90	56.00	-23.10	23.17	9.73	QP
10	0.922	10.69	46.00	-35.31	0.96	9.73	AV
11	2.304	30.95	56.00	-25.05	21.15	9.80	QP
12	2.304	13.39	46.00	-32.61	3.59	9.80	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	AP-200AC	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/3
Test Mode	Mode 2: Non-BF Transmit Power by POE	Engineer	Max Chang
Phase	N	Temperature (°C)	22.6
Test Condition	802.11ac,Ant0+1,Ch 36,5.18G,BW20M	Humidity (%RH)	69



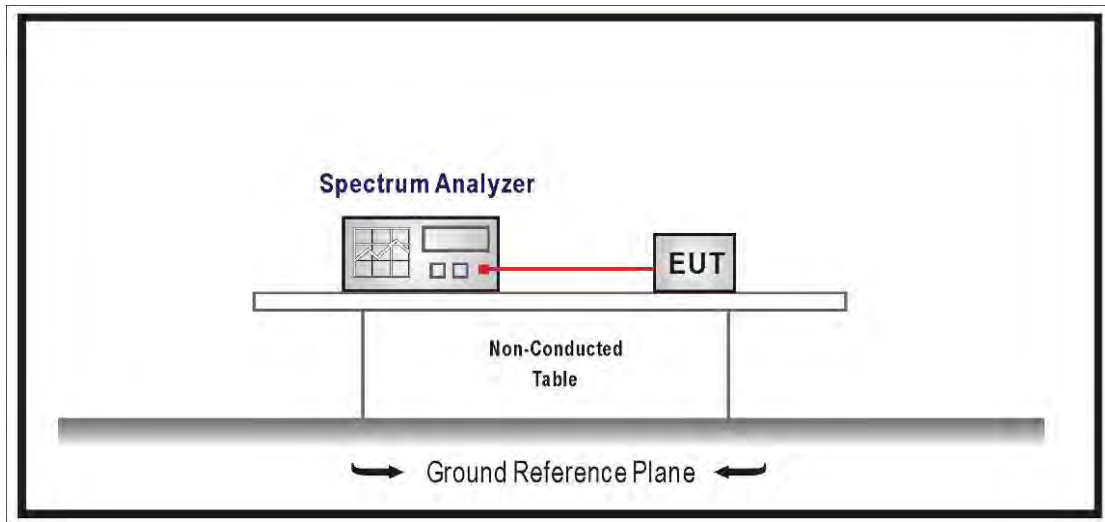
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.194	45.38	63.86	-18.48	35.75	9.64	QP
2	0.194	23.61	53.86	-30.25	13.98	9.64	AV
3	0.267	42.19	61.20	-19.02	32.54	9.64	QP
4	0.267	17.48	51.20	-33.72	7.84	9.64	AV
5	0.425	37.92	57.35	-19.43	28.25	9.67	QP
6	0.425	14.27	47.35	-33.09	4.60	9.67	AV
7	0.618	35.49	56.00	-20.51	25.80	9.69	QP
8	0.618	16.84	46.00	-29.16	7.15	9.69	AV
9	1.548	28.49	56.00	-27.51	18.73	9.76	QP
10	1.548	17.27	46.00	-28.73	7.52	9.76	AV
11	2.006	29.40	56.00	-26.60	19.62	9.78	QP
12	2.006	19.90	46.00	-26.10	10.12	9.78	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

3. 26dB & 99% & DTS Bandwidth

3.1. Test Setup



3.2. Limits

99% & 26dB Bandwidth : No Required

6dB Bandwidth $\geq$ 500KHz

3.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033 D02 v02r01

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

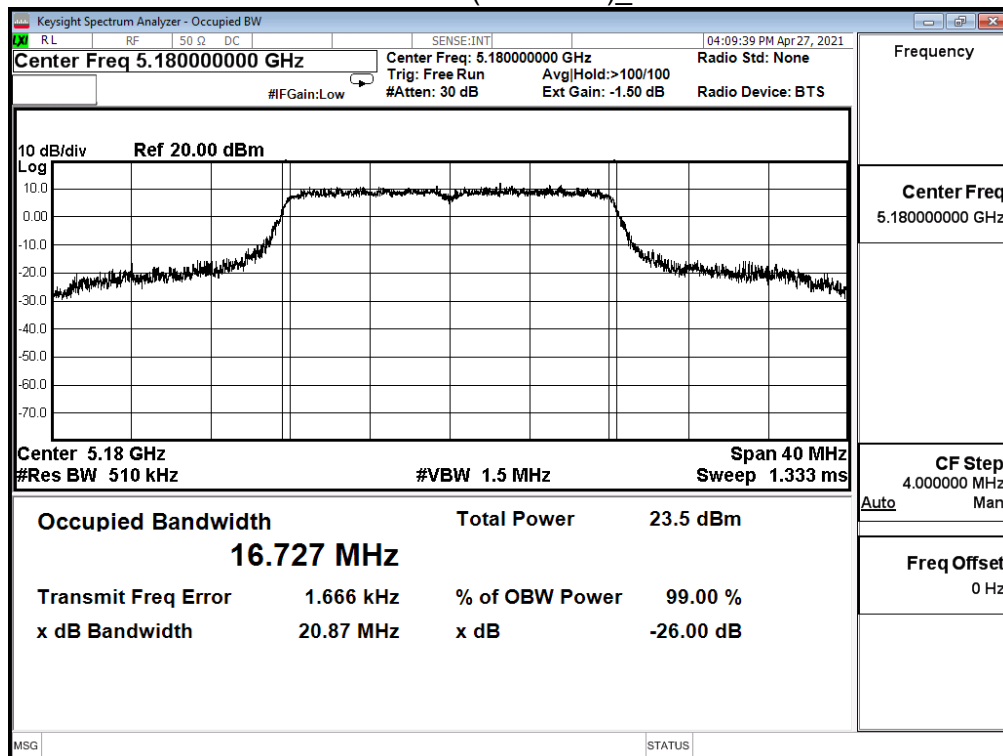
Set RBW = 100KHz, VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

3.4. Test Result

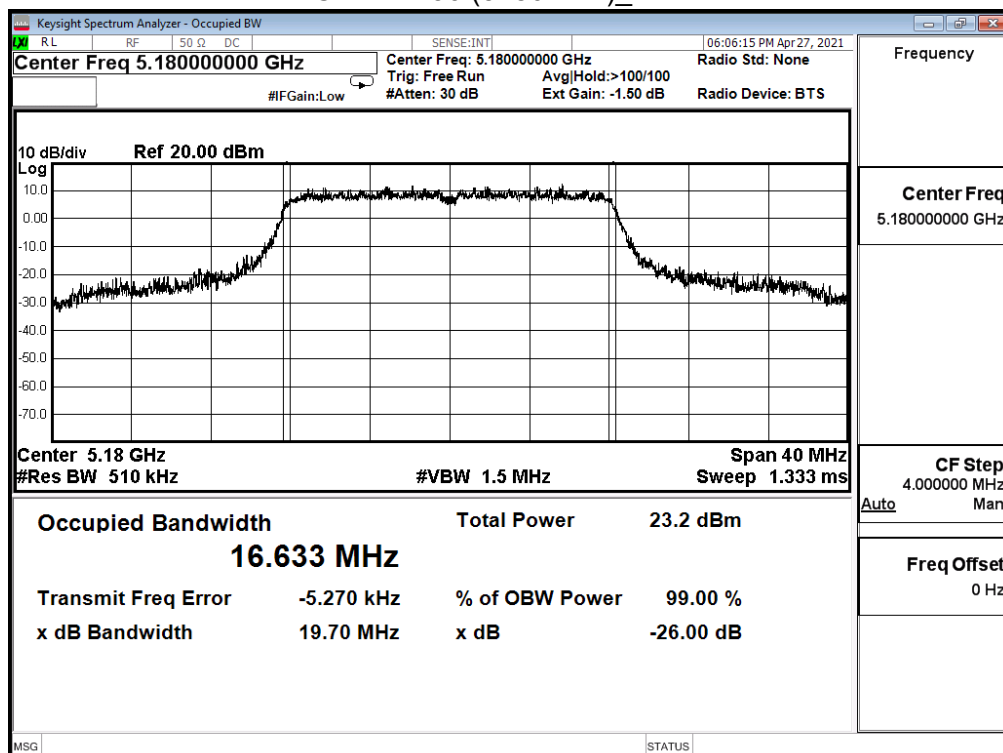
Product	Wireless LAN Access Point		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: Non-BF Transmit Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11a							
Channel No.	Frequency (MHz)	Measure Value				Limit (MHz)	Result
		99% Bandwidth (MHz)		26dB Bandwidth (MHz)			
		Ant. 0	Ant. 1	Ant. 0	Ant. 1		
36	5180	16.727	16.633	20.870	19.700	--	Pass
44	5220	20.104	18.791	38.380	36.480	--	Pass
48	5240	17.207	17.007	34.000	33.580	--	Pass
149	5745	20.703	23.991	N/A		--	Pass
157	5785	22.748	24.926			--	Pass
165	5825	20.690	25.673			--	Pass

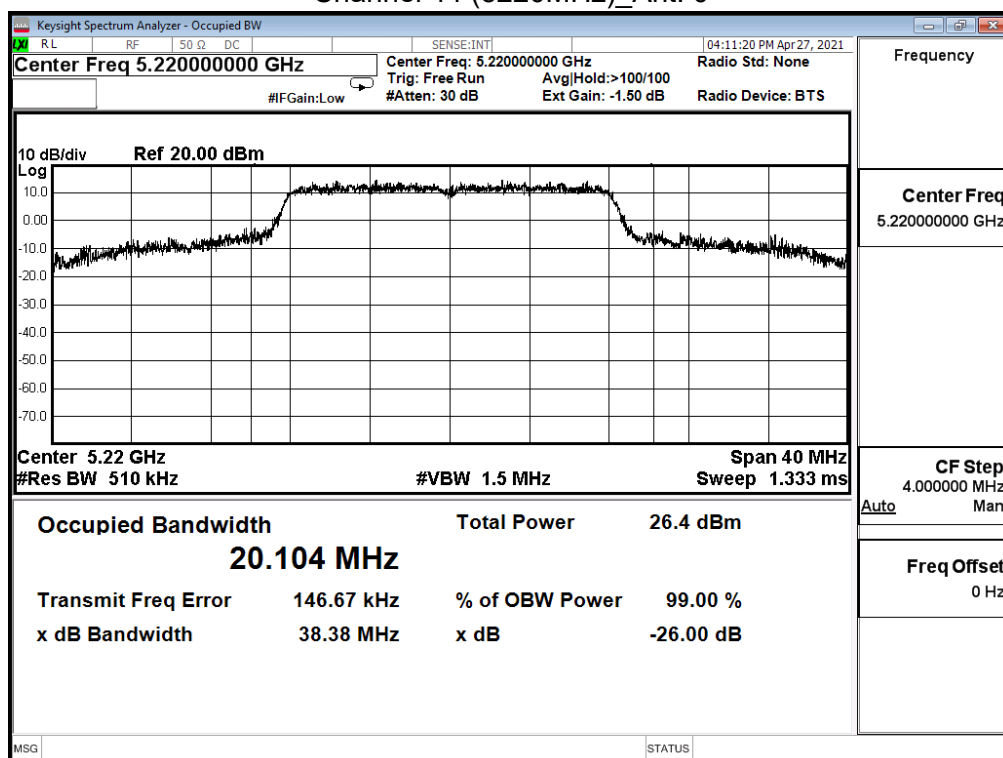
Channel 36 (5180MHz)_Ant. 0



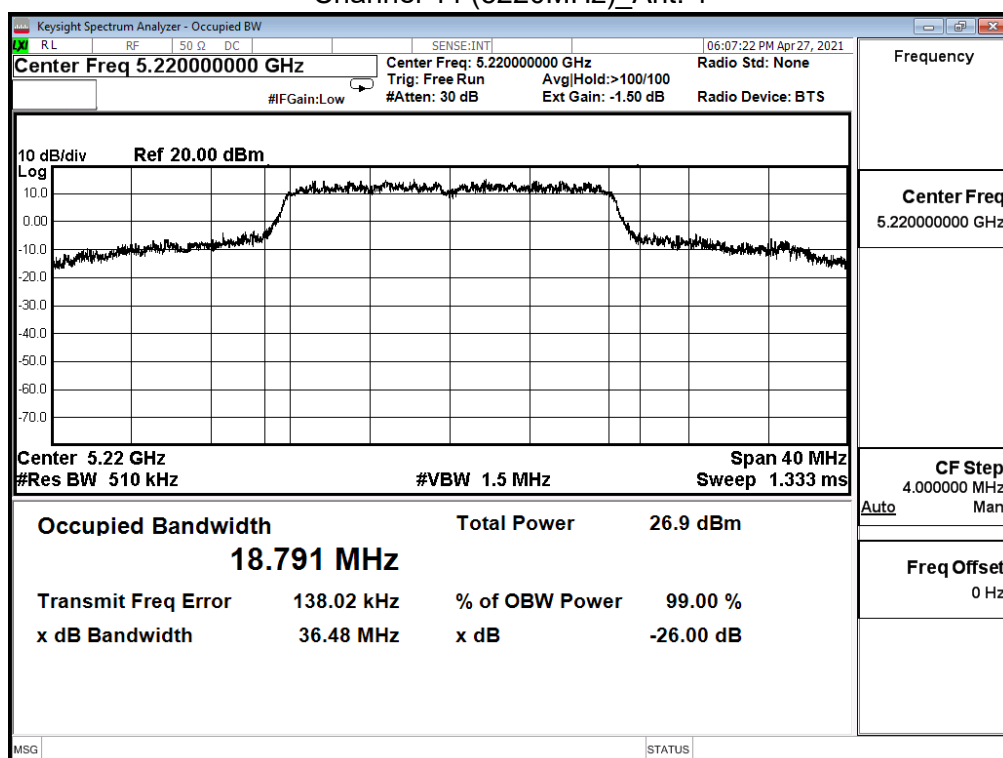
Channel 36 (5180MHz)_Ant. 1



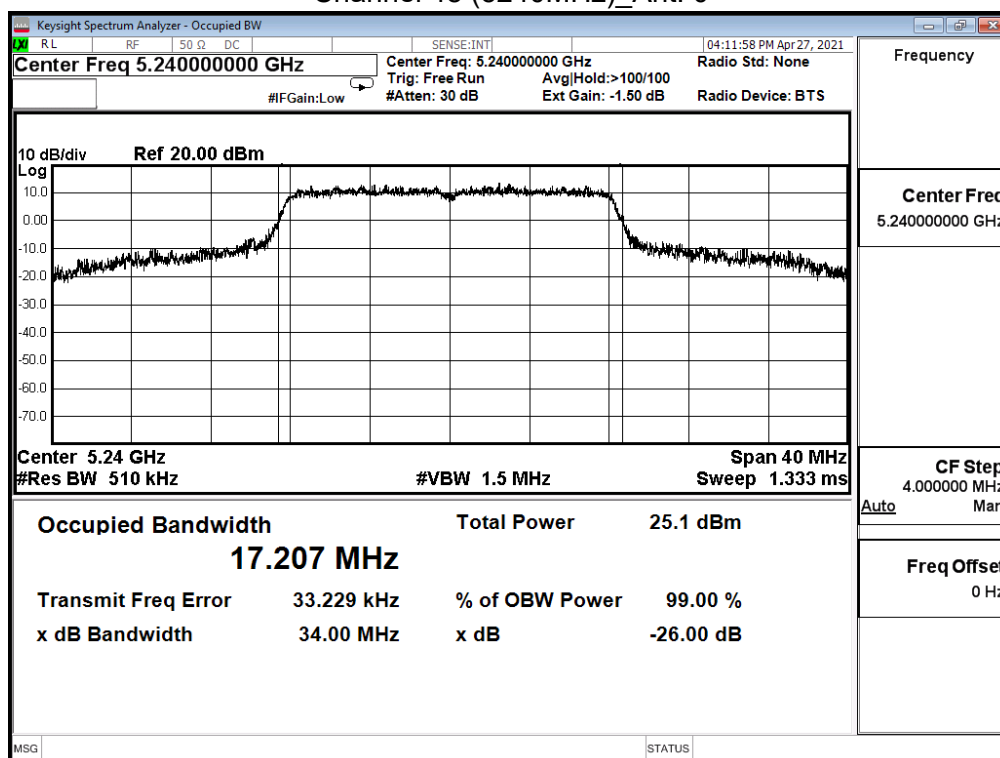
Channel 44 (5220MHz)_Ant. 0



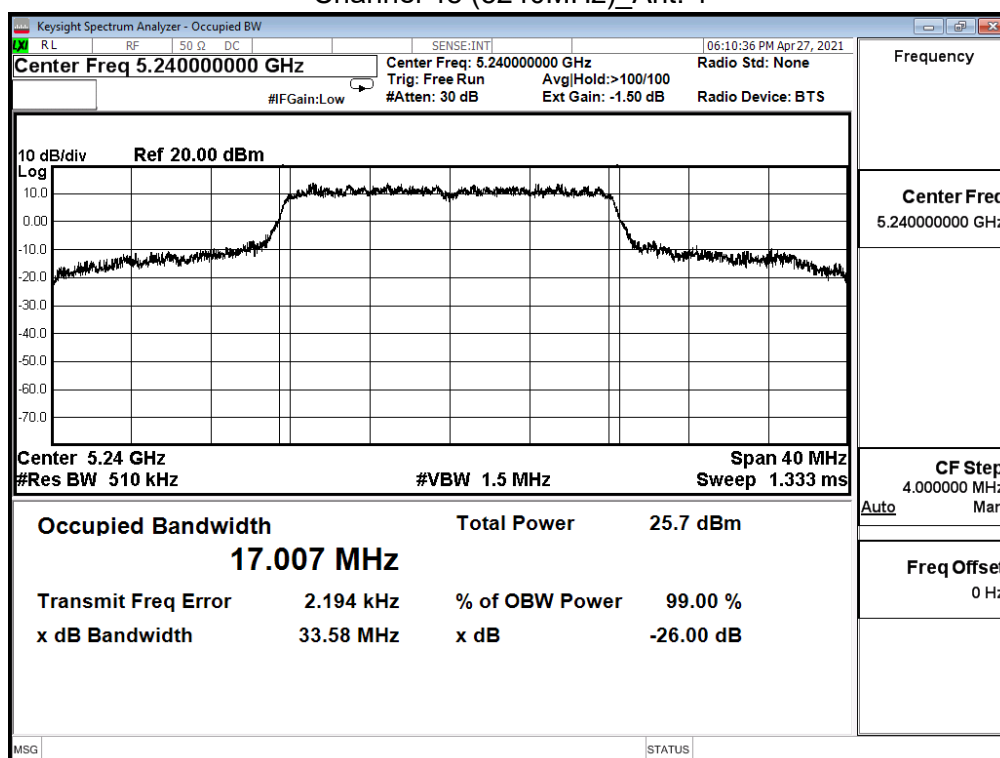
Channel 44 (5220MHz)_Ant. 1



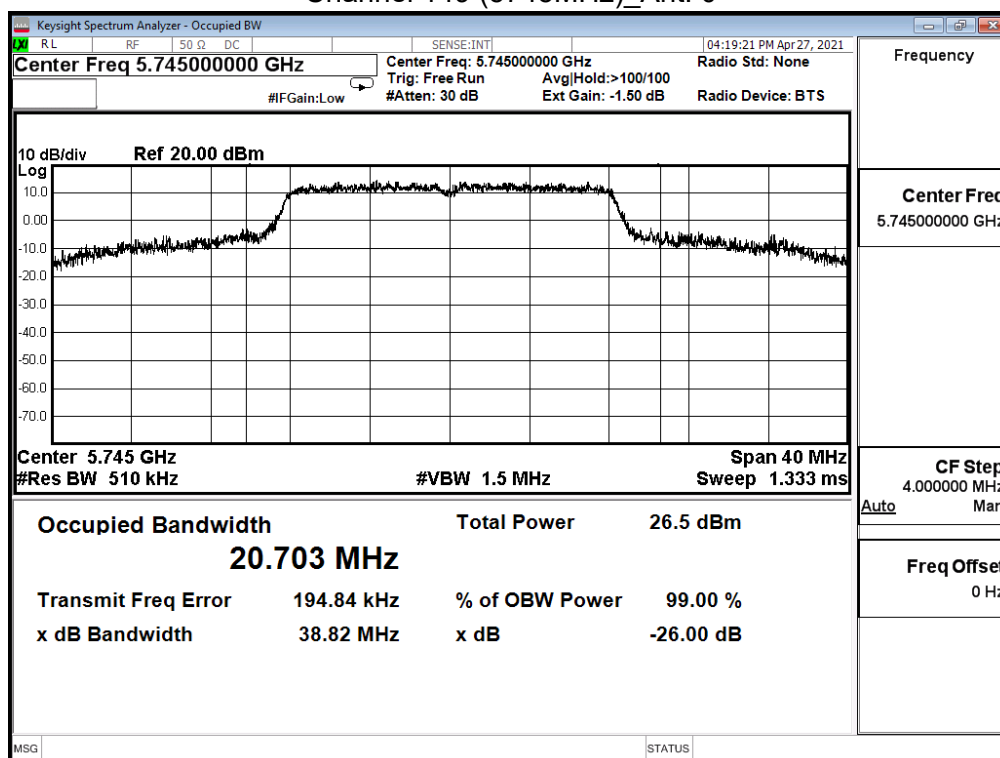
Channel 48 (5240MHz)_Ant. 0



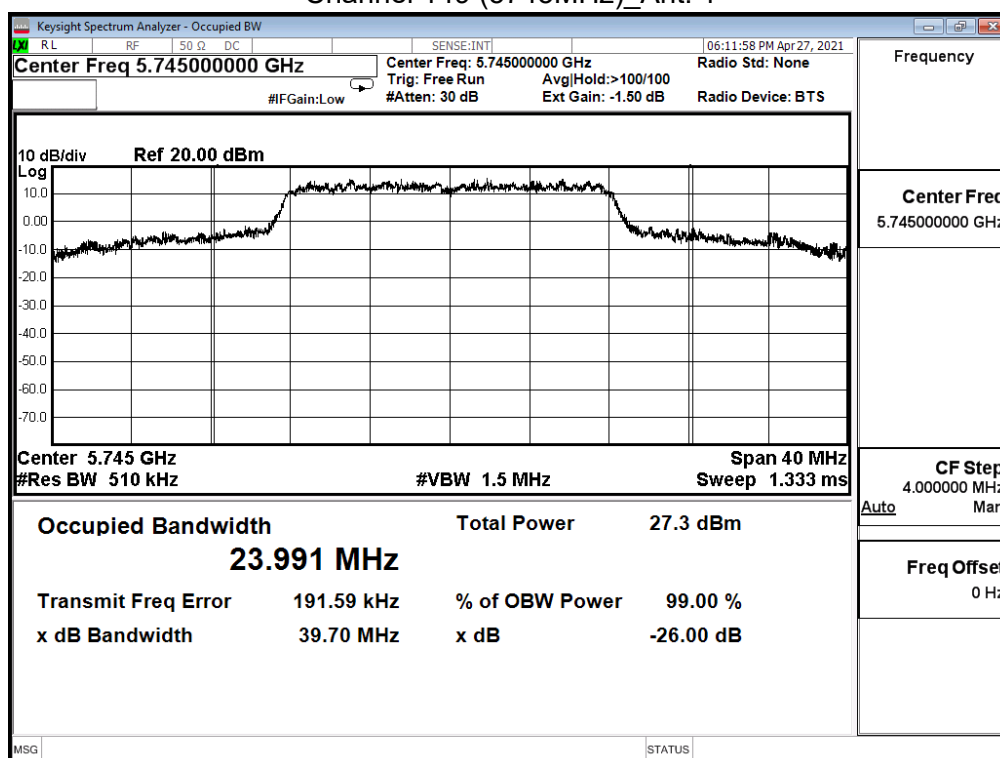
Channel 48 (5240MHz)_Ant. 1



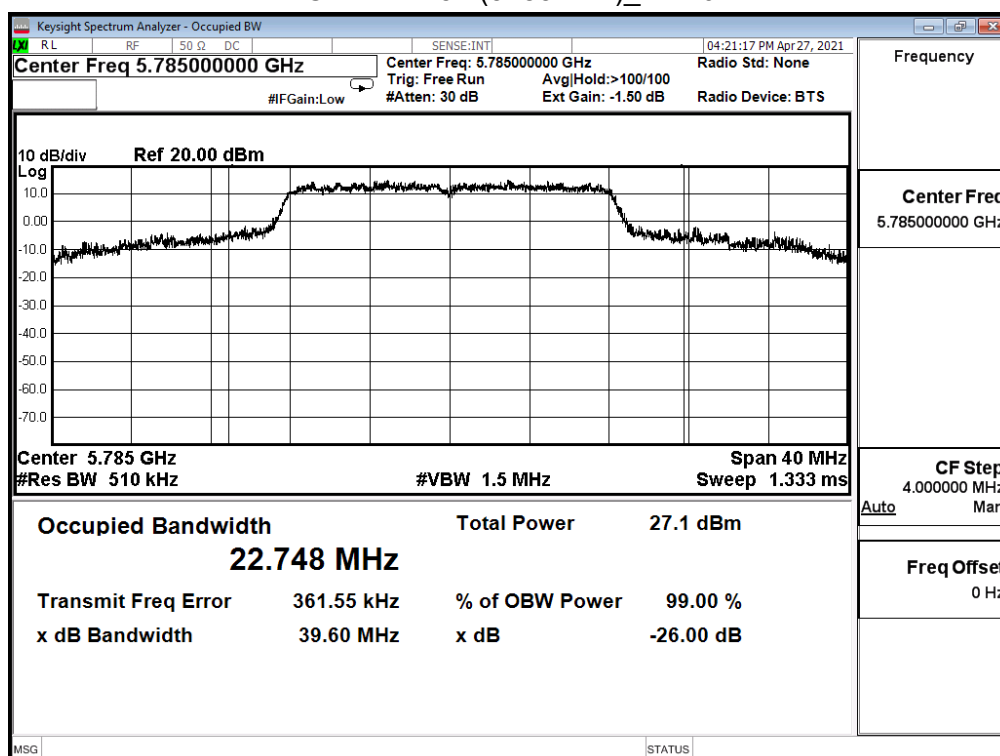
Channel 149 (5745MHz)_Ant. 0



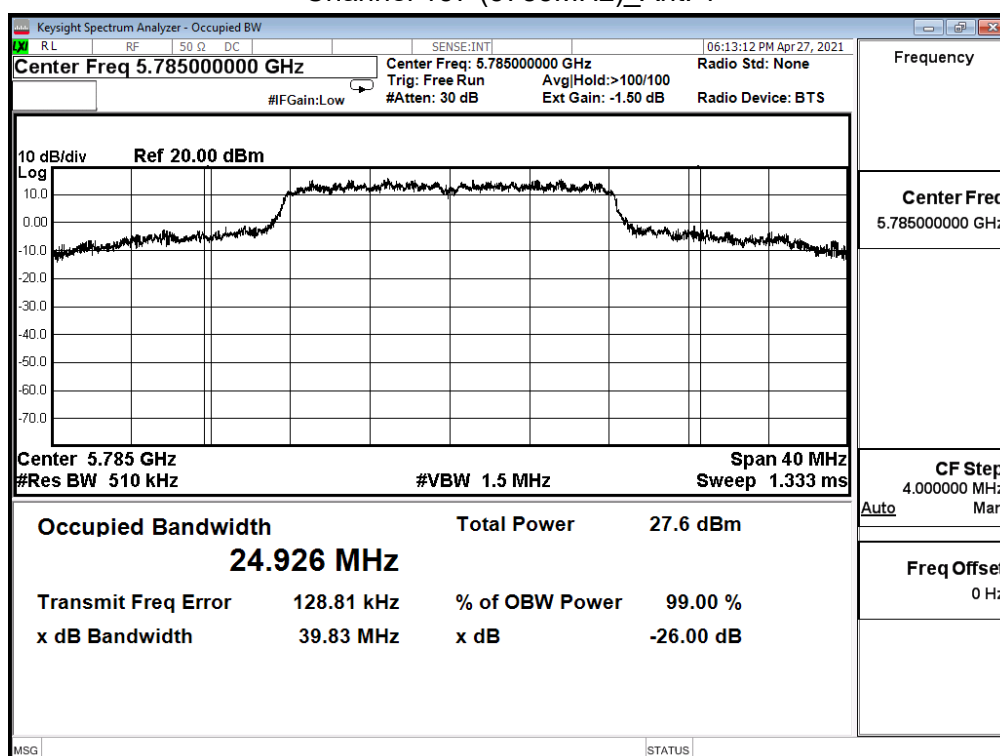
Channel 149 (5745MHz)_Ant. 1



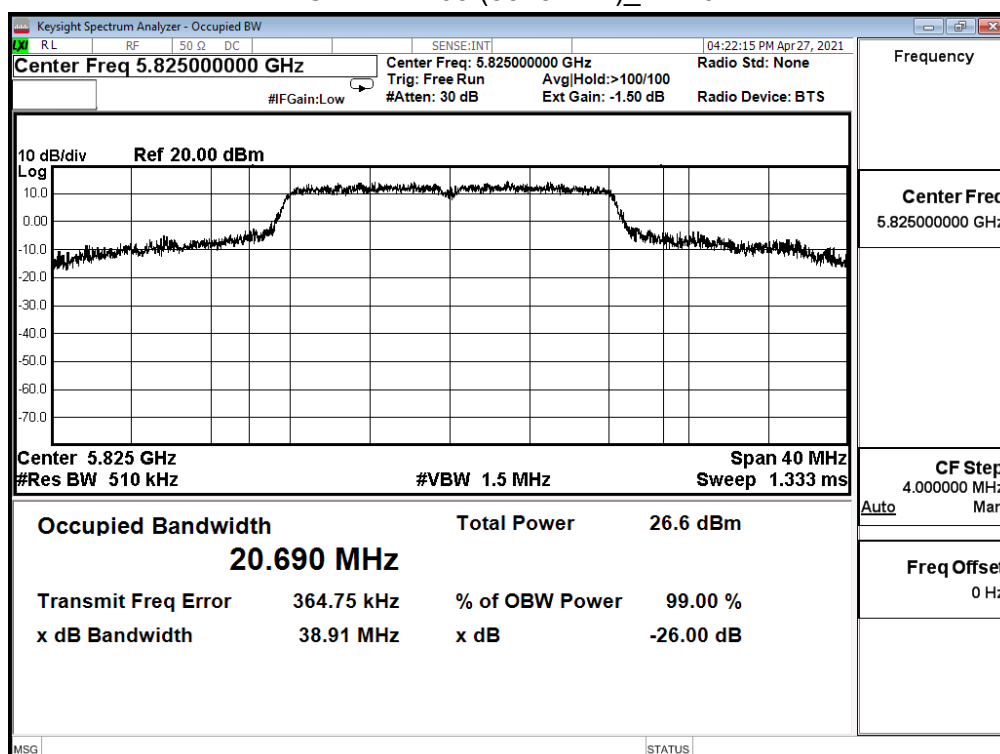
Channel 157 (5785MHz)_Ant. 0



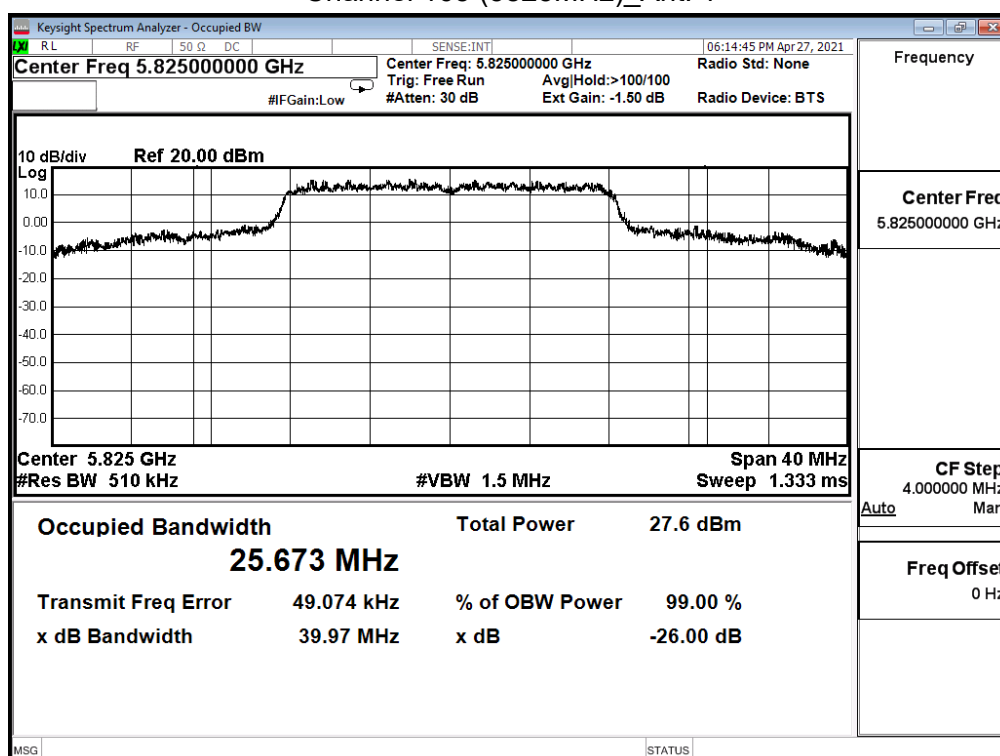
Channel 157 (5785MHz)_Ant. 1



Channel 165 (5825MHz)_Ant. 0



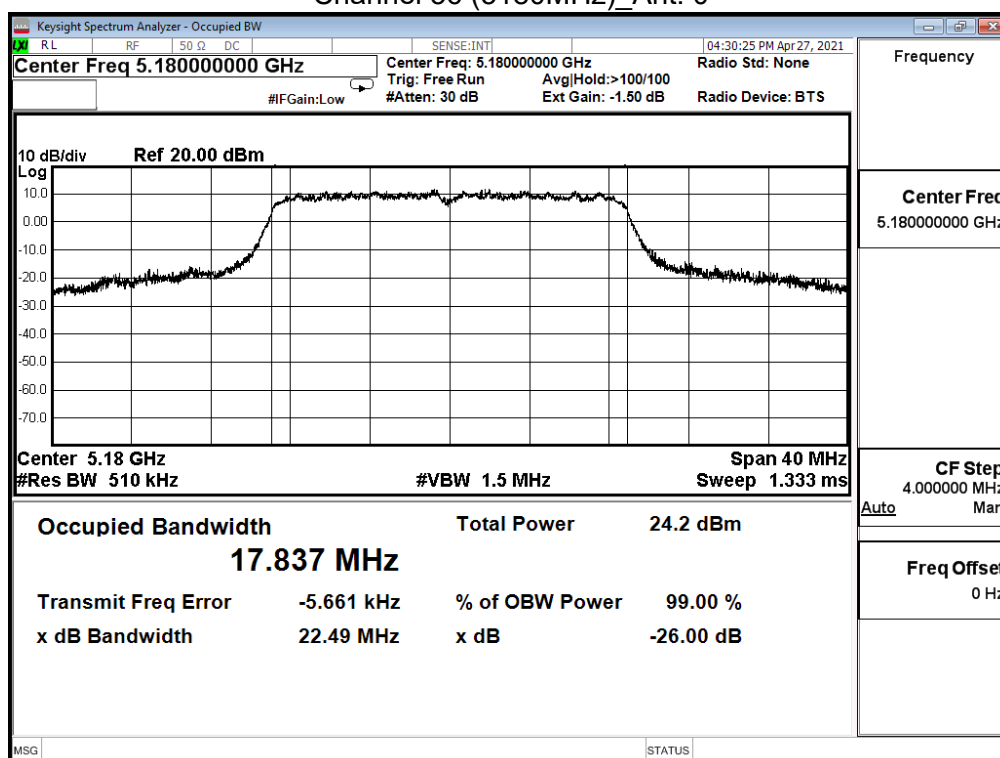
Channel 165 (5825MHz)_Ant. 1



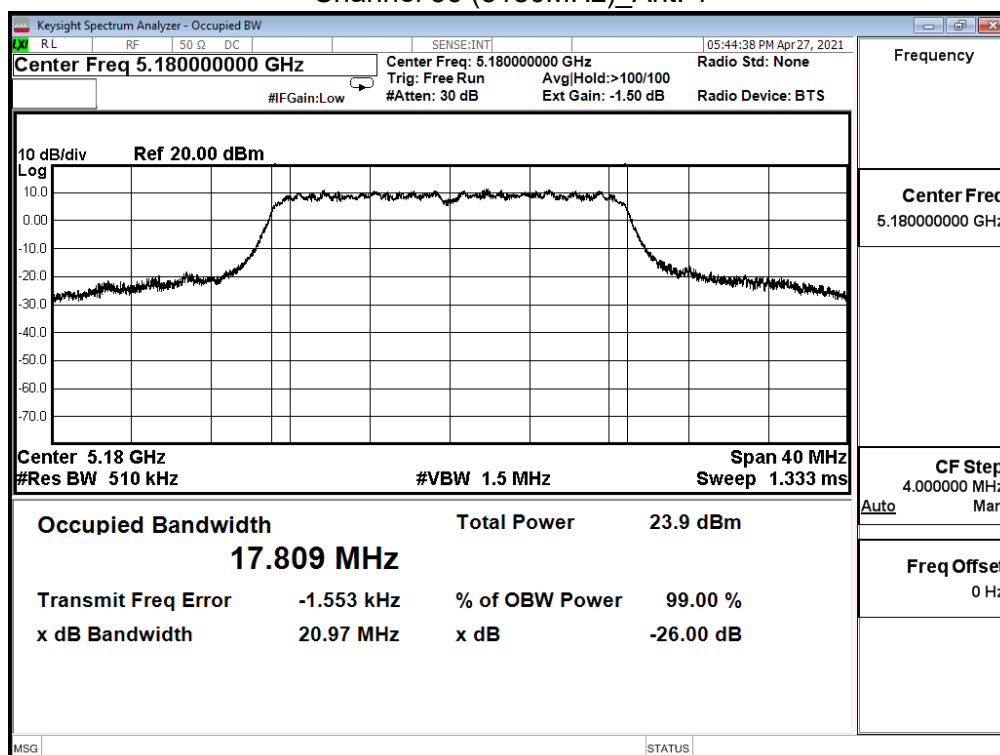
Product	Wireless LAN Access Point		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: Non-BF Transmit Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_20M							
Channel No.	Frequency (MHz)	Measure Value				Limit (MHz)	Result
		99% Bandwidth (MHz)		26dB Bandwidth (MHz)			
		Ant. 0	Ant. 1	Ant. 0	Ant. 1		
36	5180	17.837	17.809	22.490	20.970	--	Pass
44	5220	21.419	19.769	39.850	39.820	--	Pass
48	5240	18.091	18.028	33.000	32.250	--	Pass
149	5745	22.041	25.018	N/A		--	Pass
157	5785	26.725	27.960			--	Pass
165	5825	19.116	23.014			--	Pass

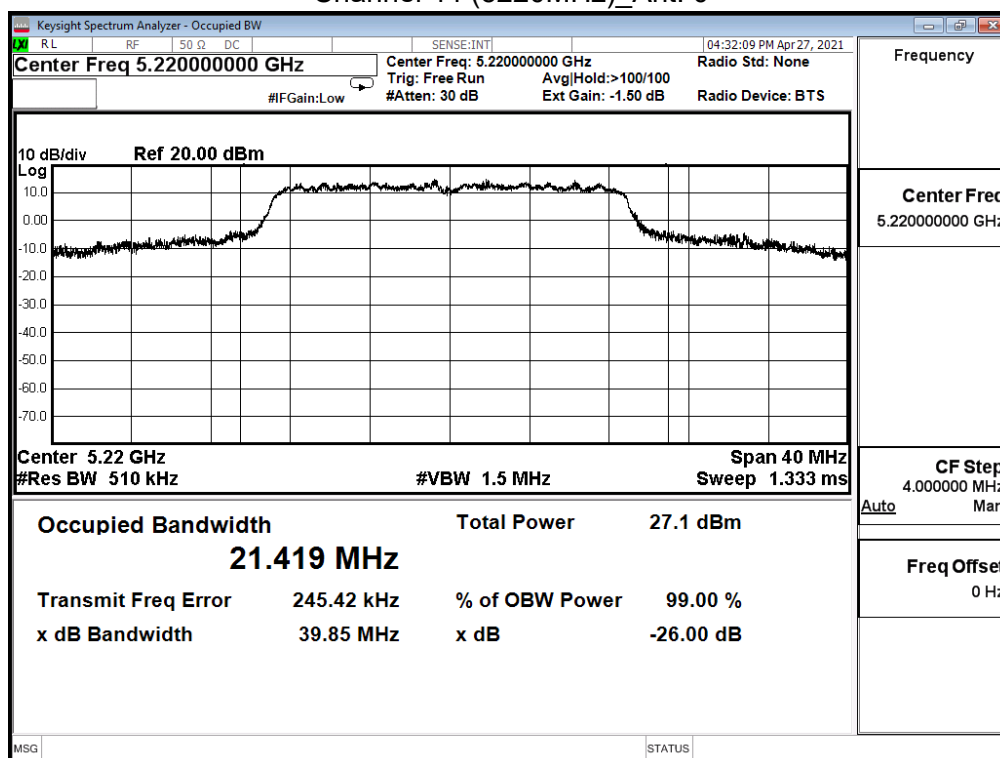
Channel 36 (5180MHz)_Ant. 0



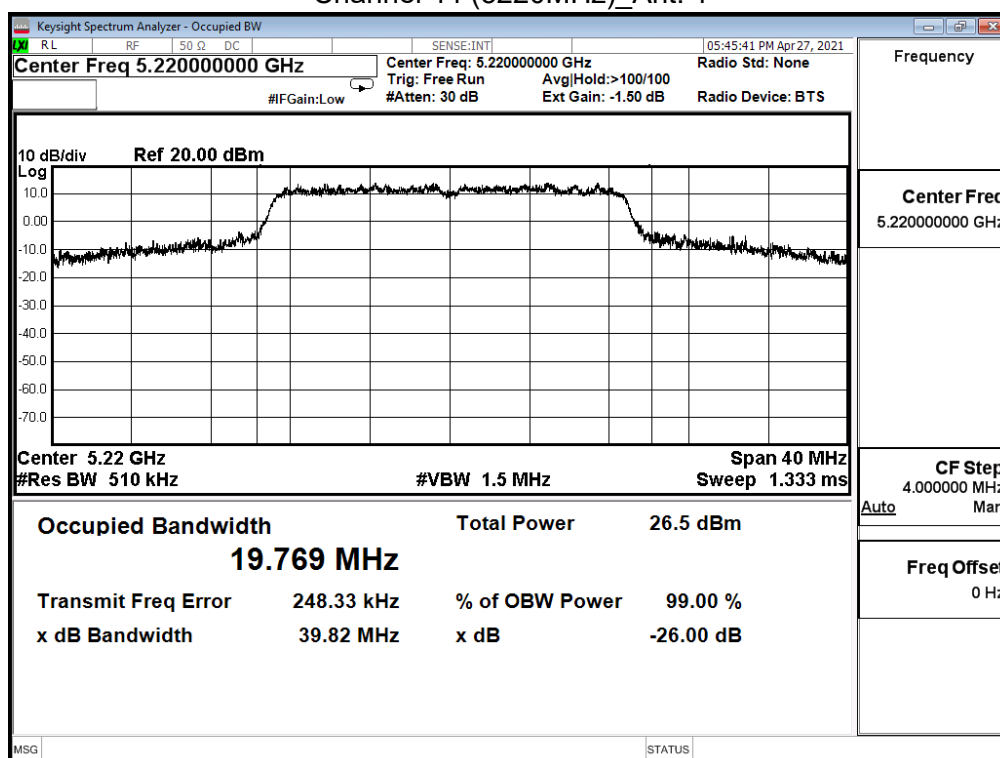
Channel 36 (5180MHz)_Ant. 1



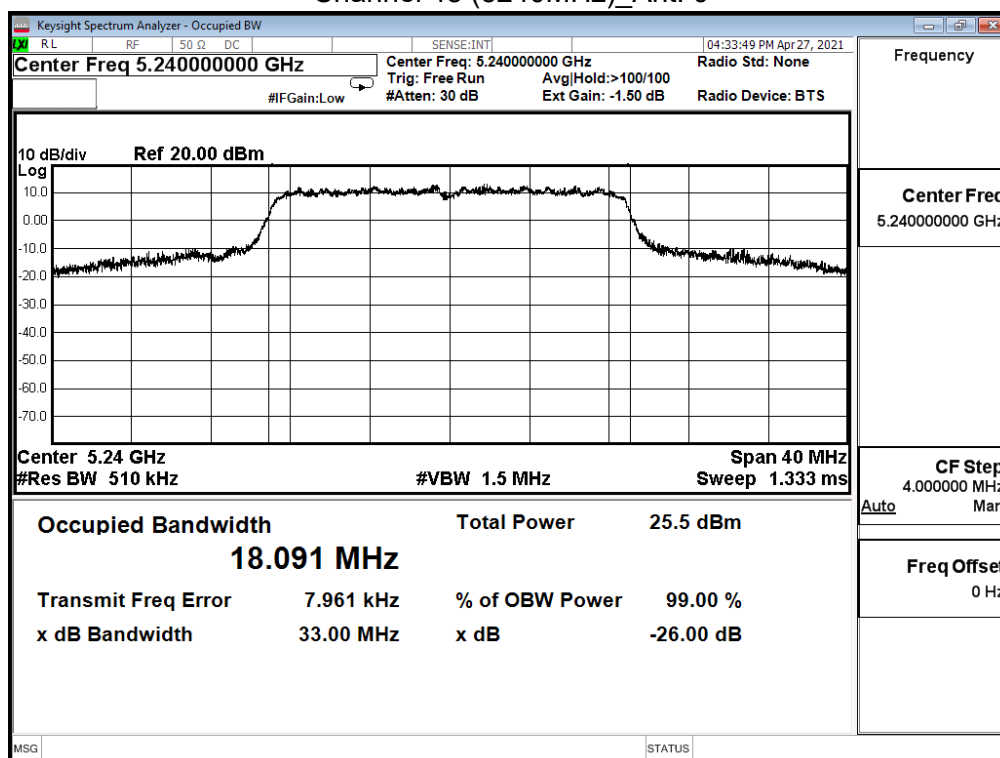
Channel 44 (5220MHz)_Ant. 0



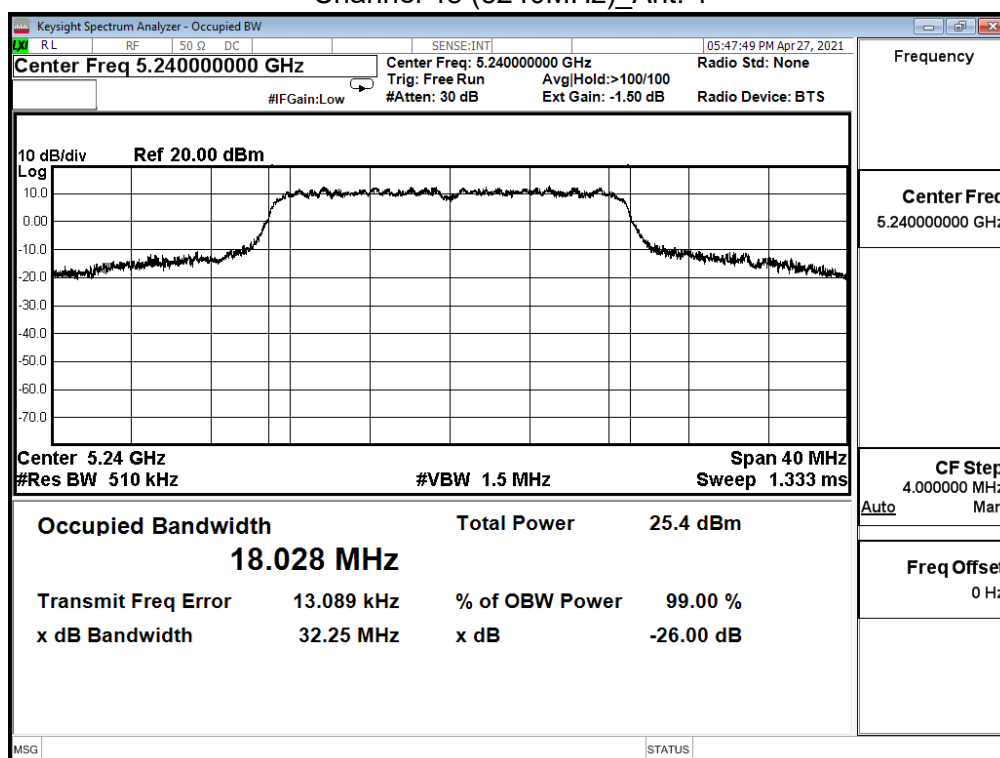
Channel 44 (5220MHz)_Ant. 1



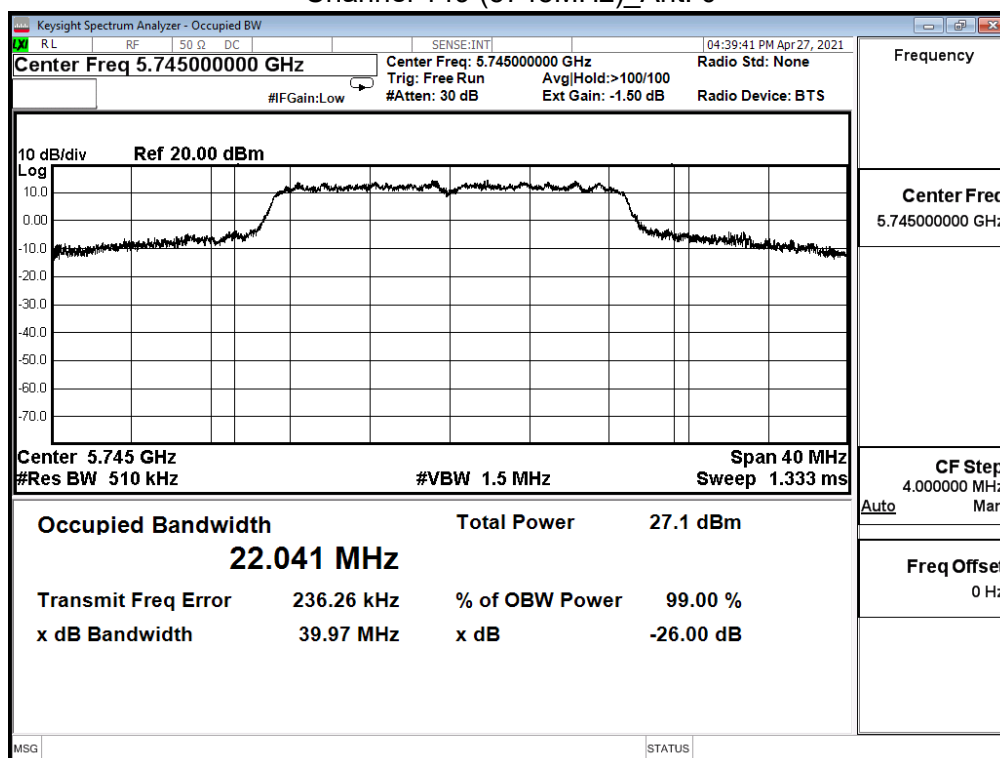
Channel 48 (5240MHz)_Ant. 0



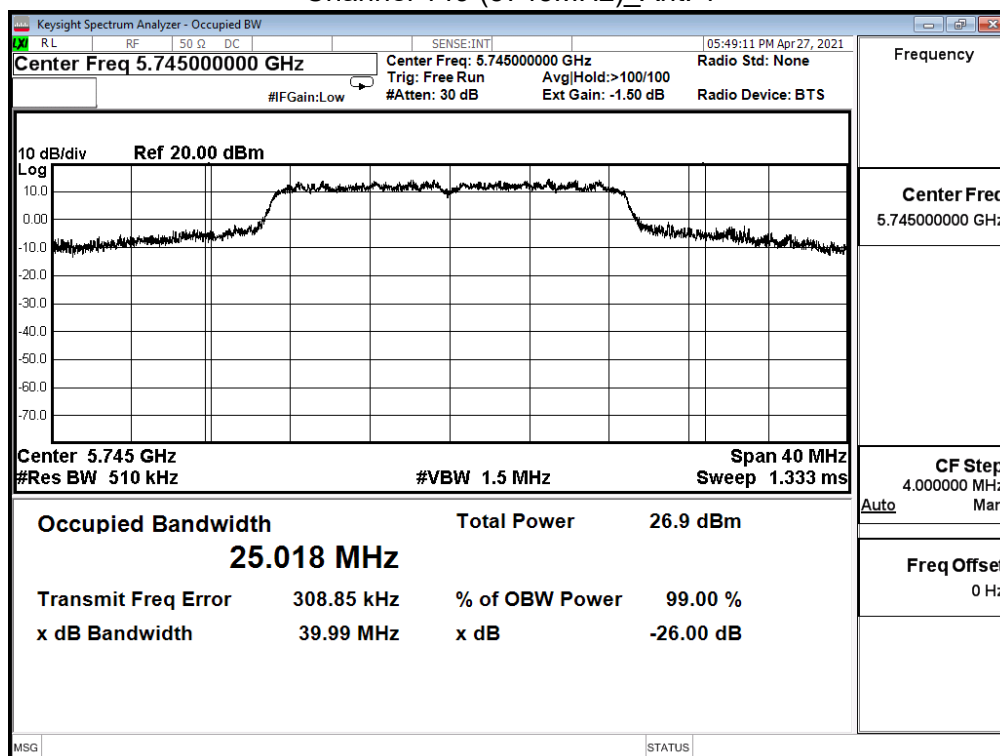
Channel 48 (5240MHz)_Ant. 1



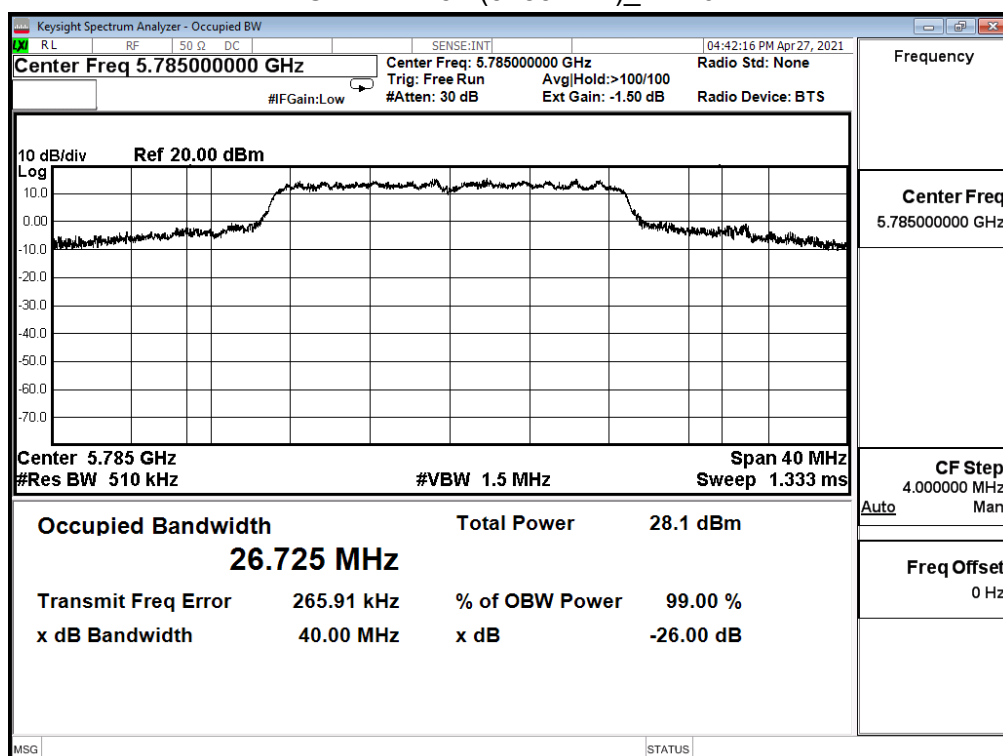
Channel 149 (5745MHz)_Ant. 0



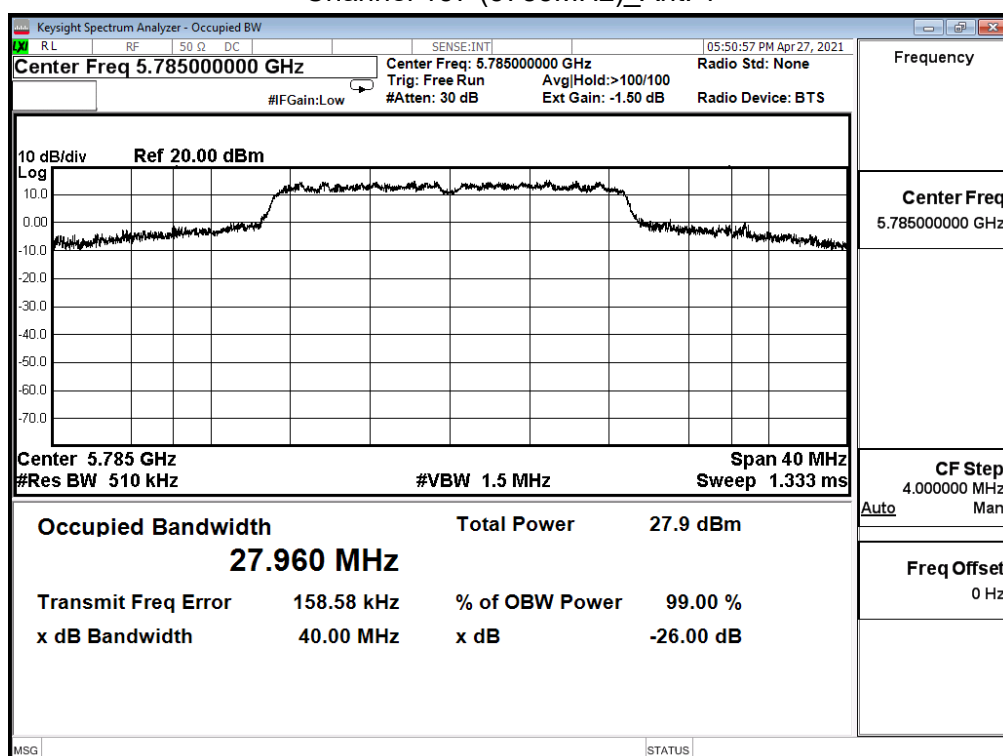
Channel 149 (5745MHz)_Ant. 1



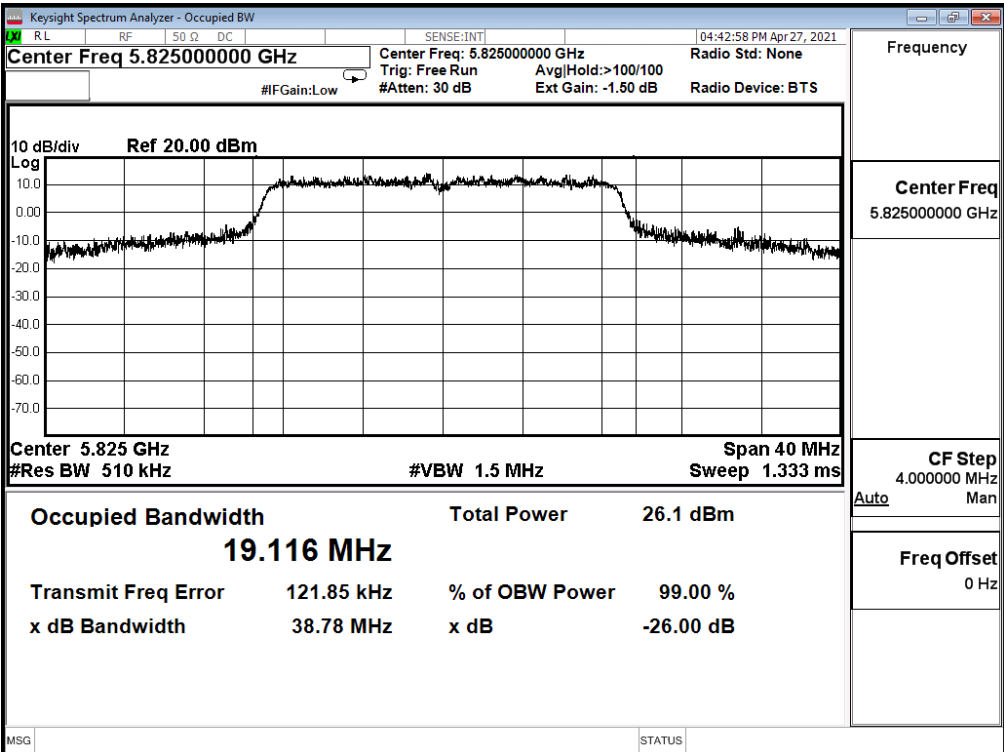
Channel 157 (5785MHz)_Ant. 0



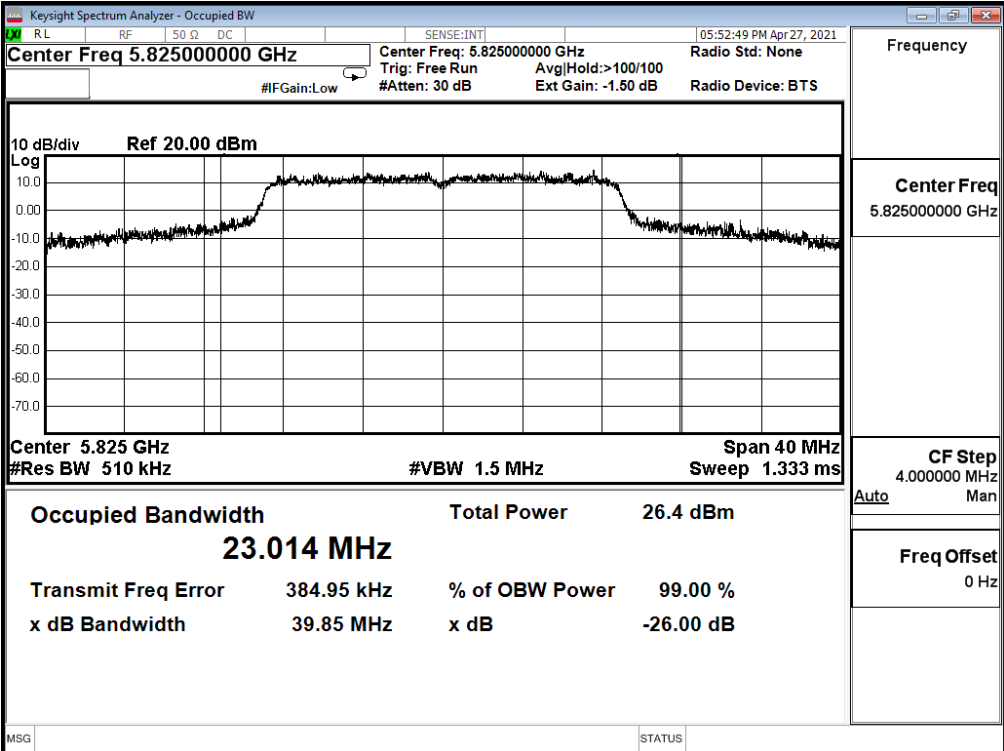
Channel 157 (5785MHz)_Ant. 1



Channel 165 (5825MHz)_Ant. 0



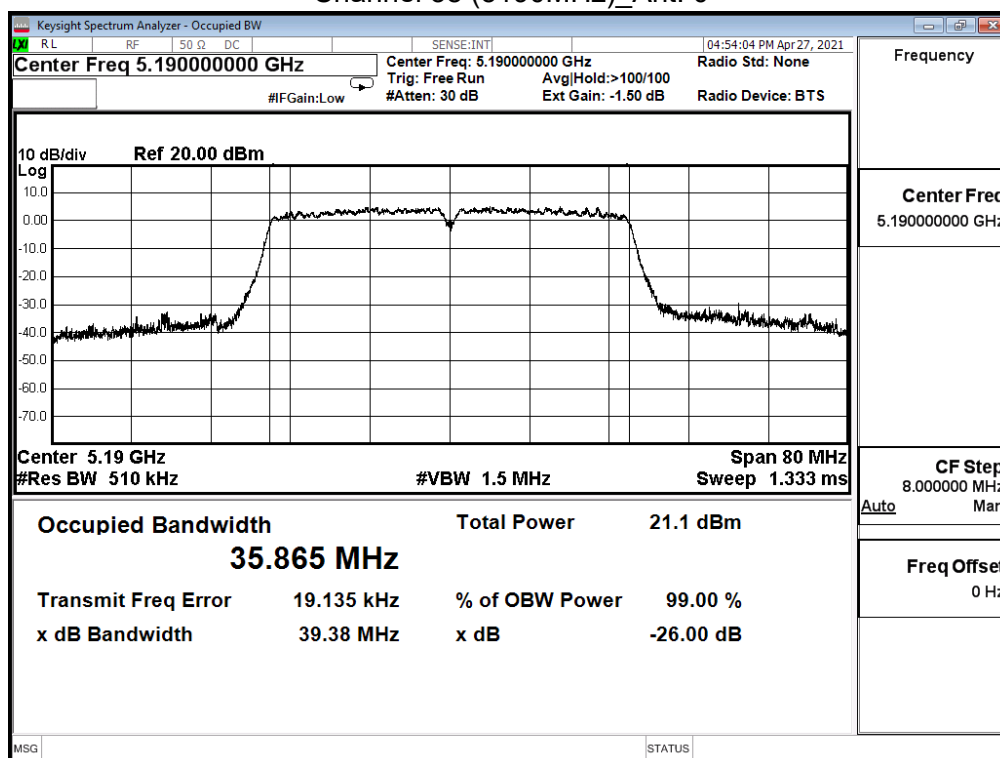
Channel 165 (5825MHz)_Ant. 1



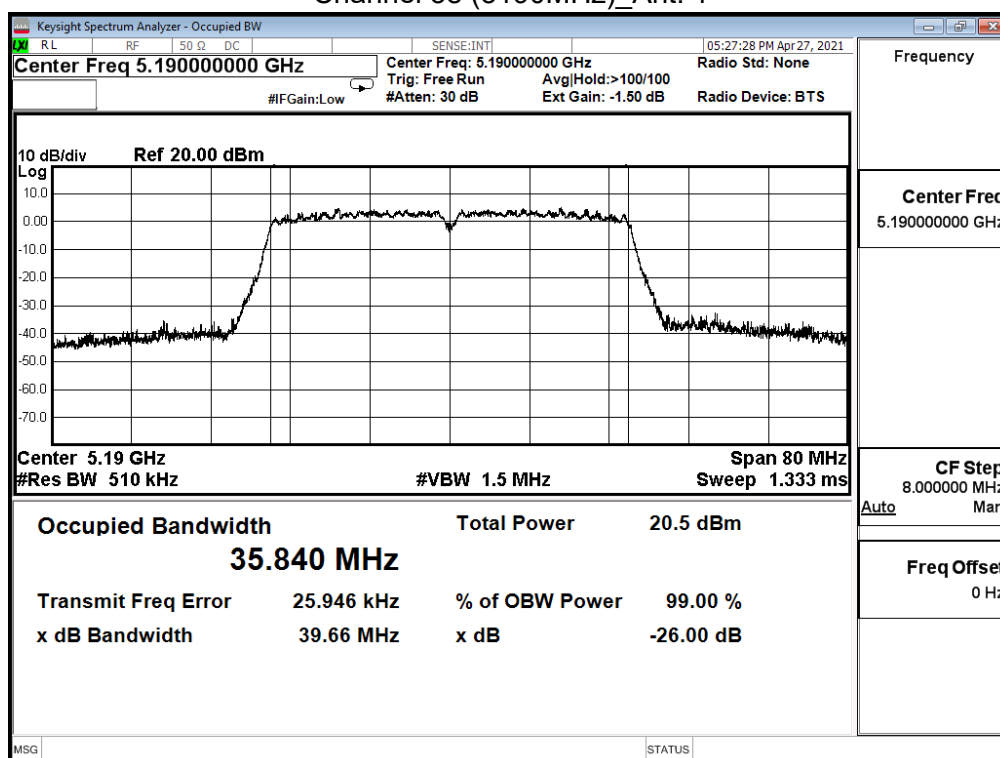
Product	Wireless LAN Access Point		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_40M							
Channel No.	Frequency (MHz)	Measure Value				Limit (MHz)	Result
		99% Bandwidth (MHz)		26dB Bandwidth (MHz)			
		Ant. 0	Ant. 1	Ant. 0	Ant. 1		
38	5190	35.865	35.840	39.380	39.660	--	Pass
46	5230	36.941	36.416	75.930	69.570	--	Pass
151	5755	48.191	54.364	N/A		--	Pass
159	5795	48.728	51.330			--	Pass

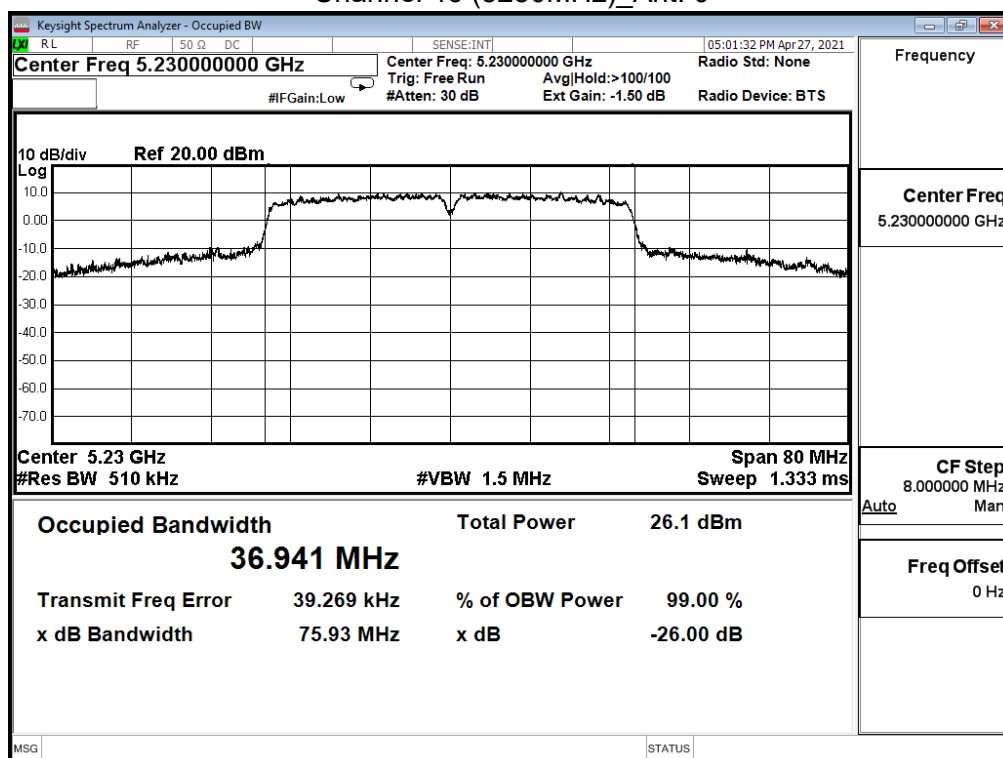
Channel 38 (5190MHz)_Ant. 0



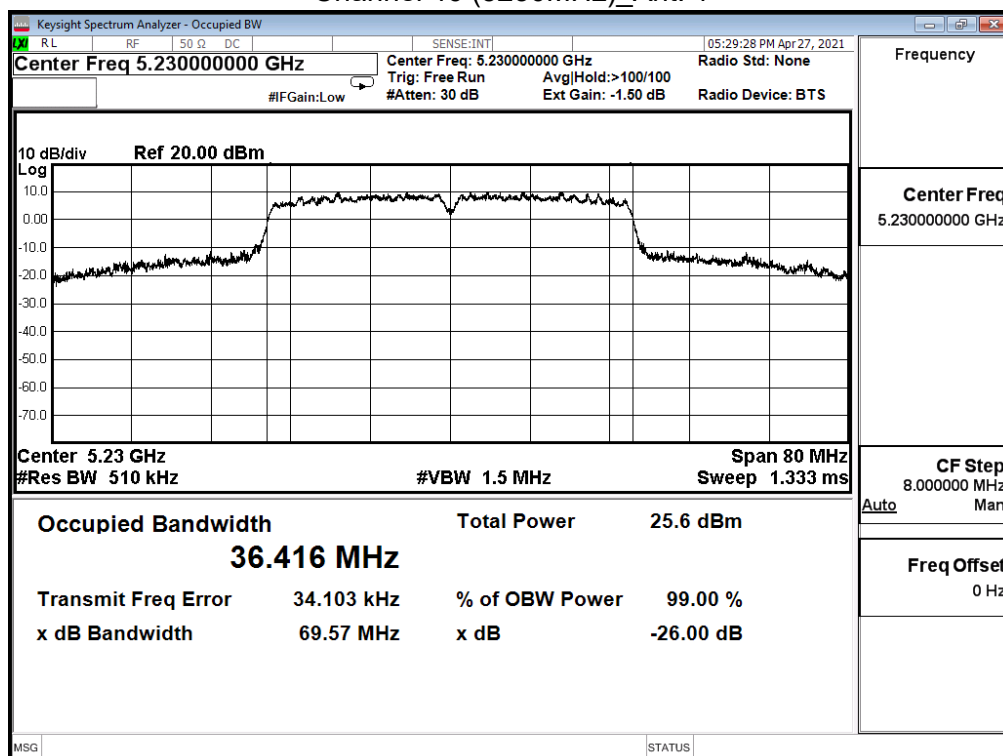
Channel 38 (5190MHz)_Ant. 1



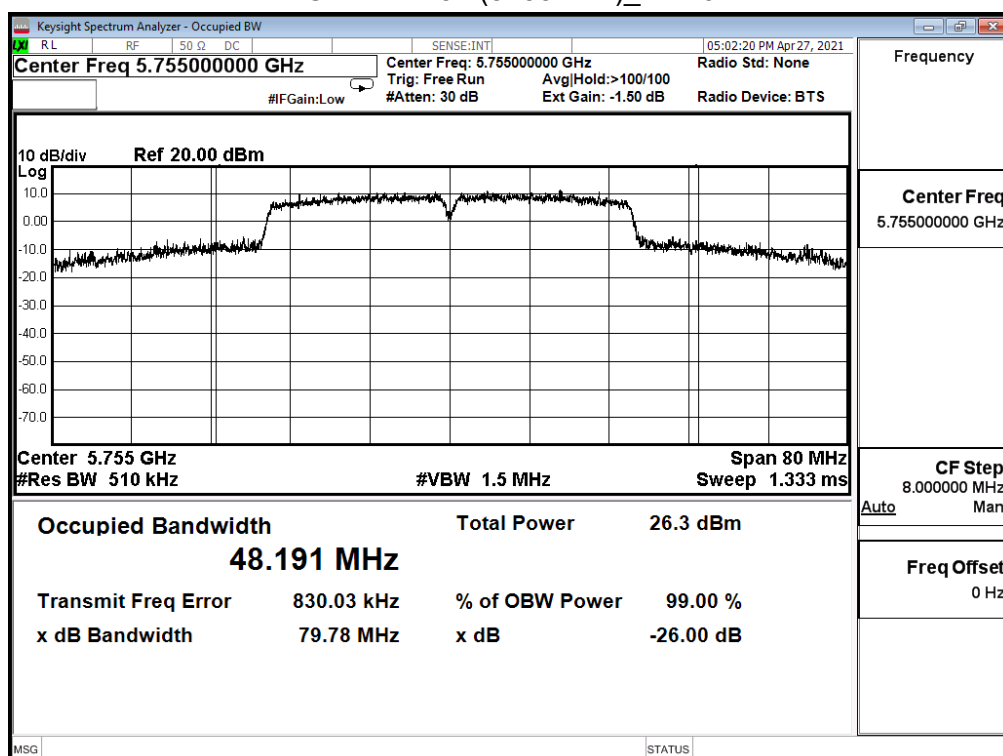
Channel 46 (5230MHz)_Ant. 0



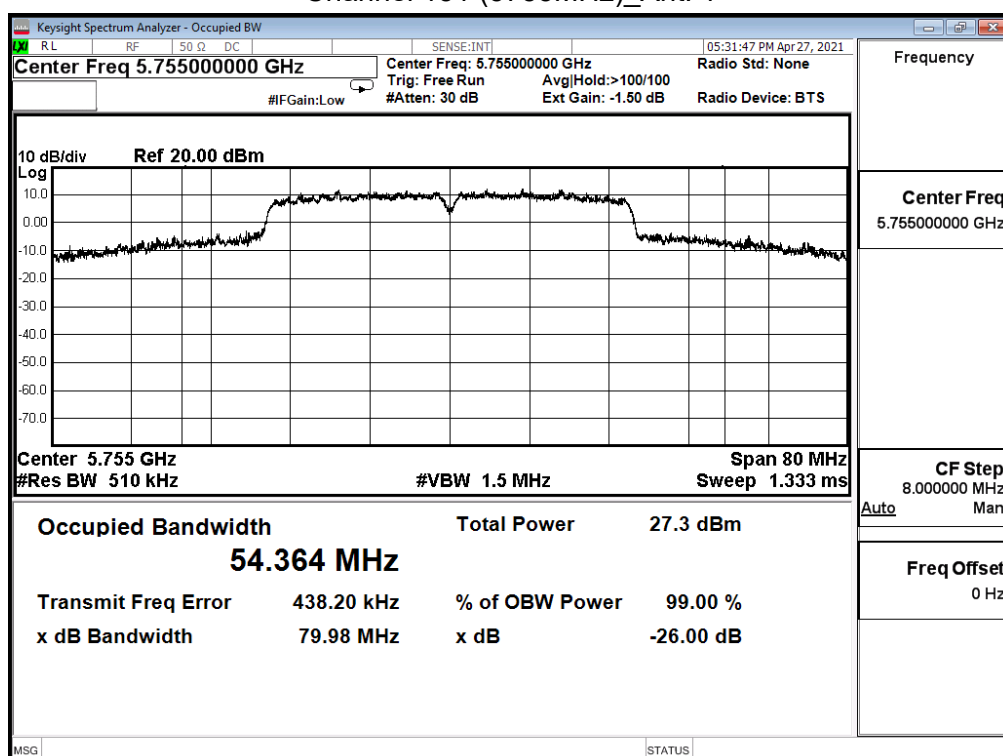
Channel 46 (5230MHz)_Ant. 1



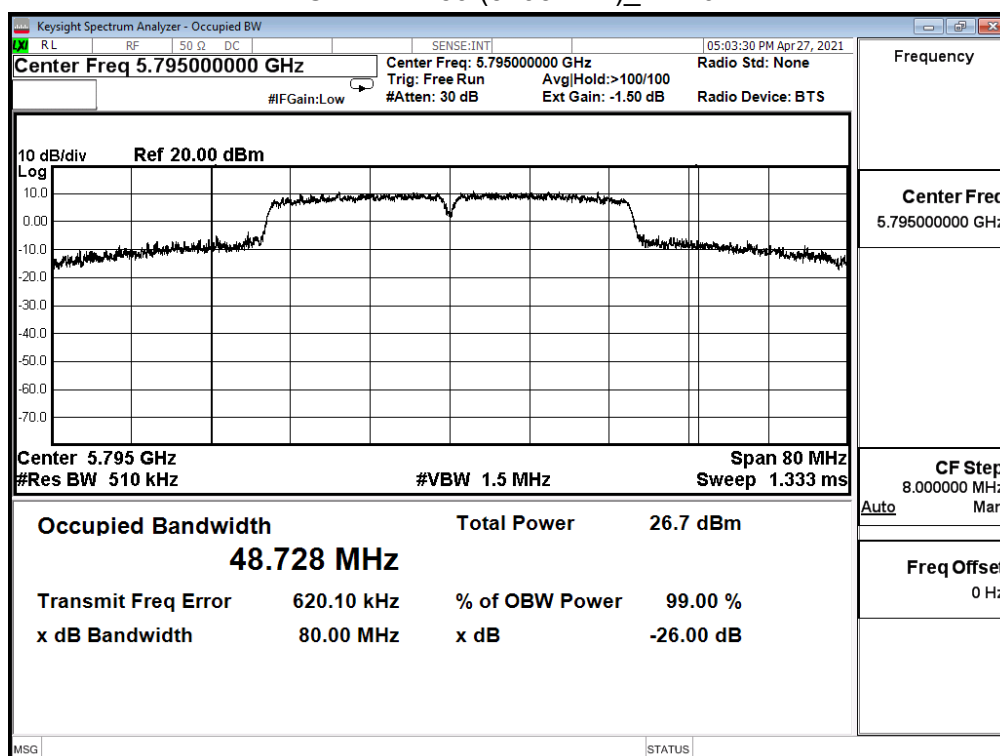
Channel 151 (5755MHz)_Ant. 0



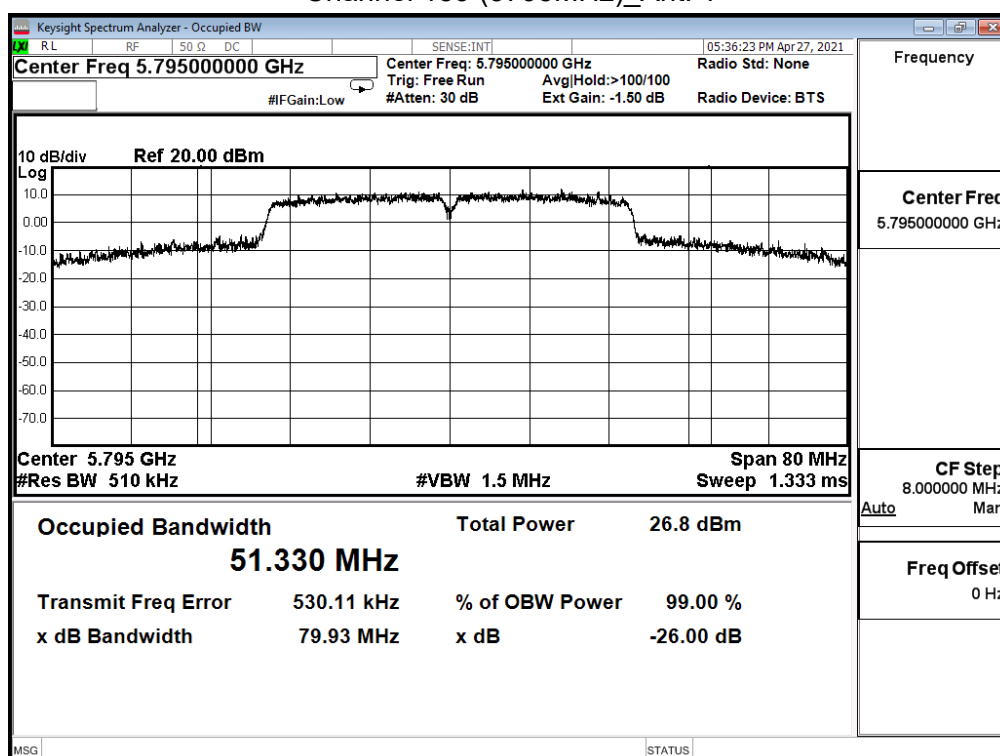
Channel 151 (5755MHz)_Ant. 1



Channel 159 (5795MHz)_Ant. 0



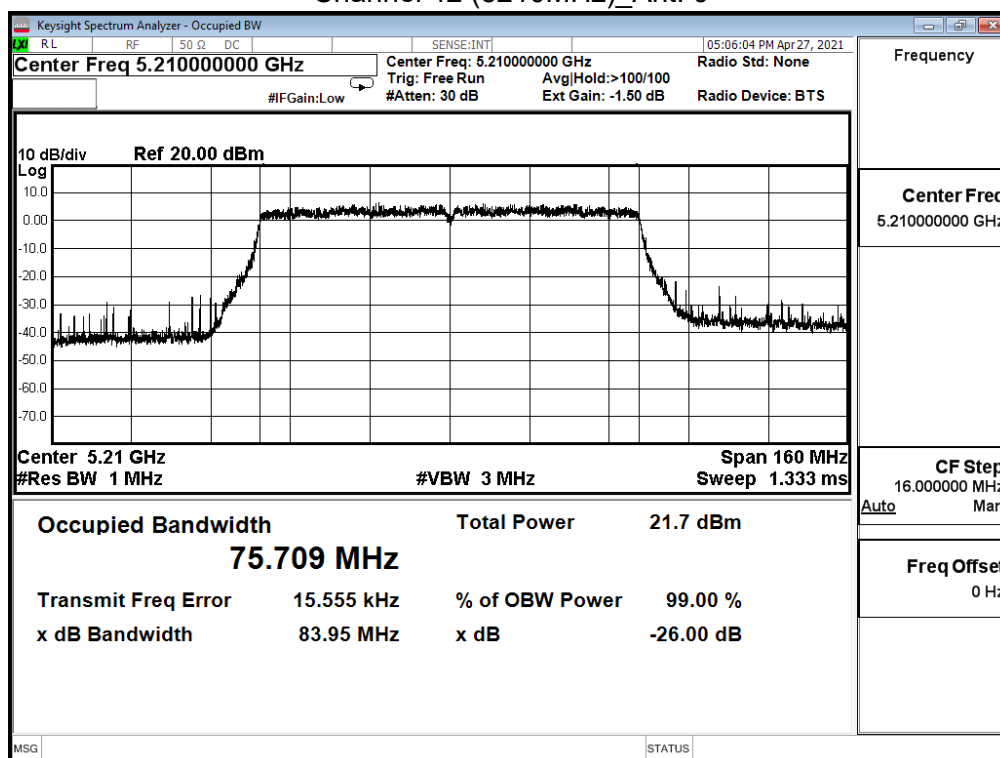
Channel 159 (5795MHz)_Ant. 1



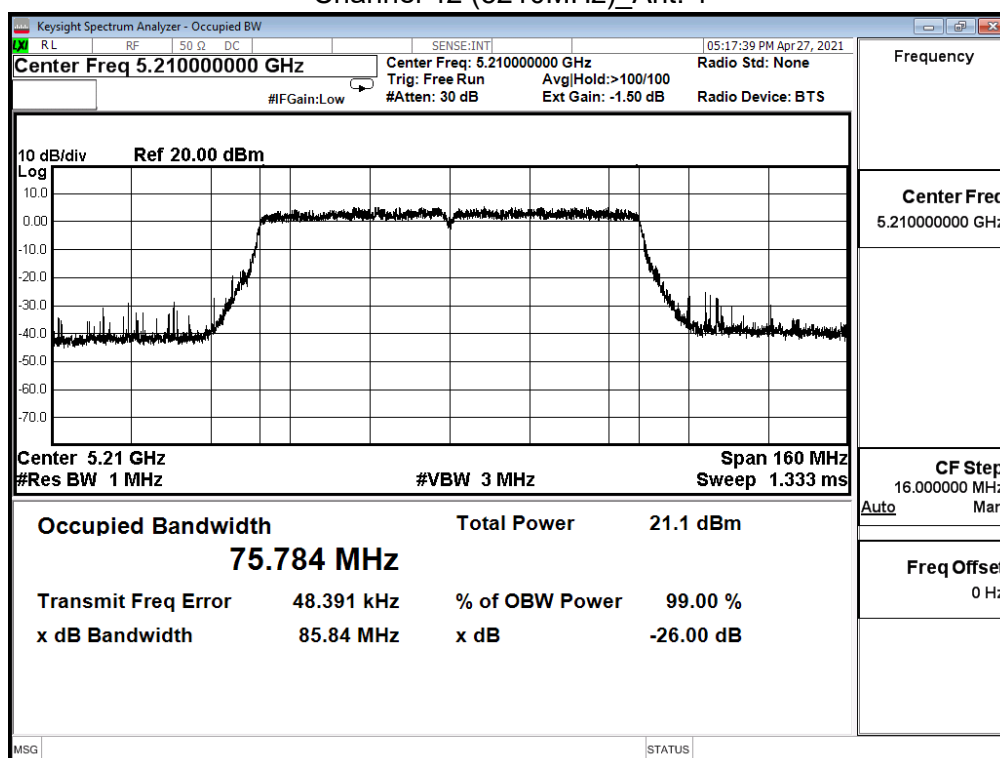
Product	Wireless LAN Access Point		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_80M							
Channel No.	Frequency (MHz)	Measure Value				Limit (MHz)	Result
		99% Bandwidth (MHz)		26dB Bandwidth (MHz)			
		Ant. 0	Ant. 1	Ant. 0	Ant. 1		
42	5210	75.709	75.784	83.950	85.840	--	Pass
155	5775	76.289	76.646	N/A		--	Pass

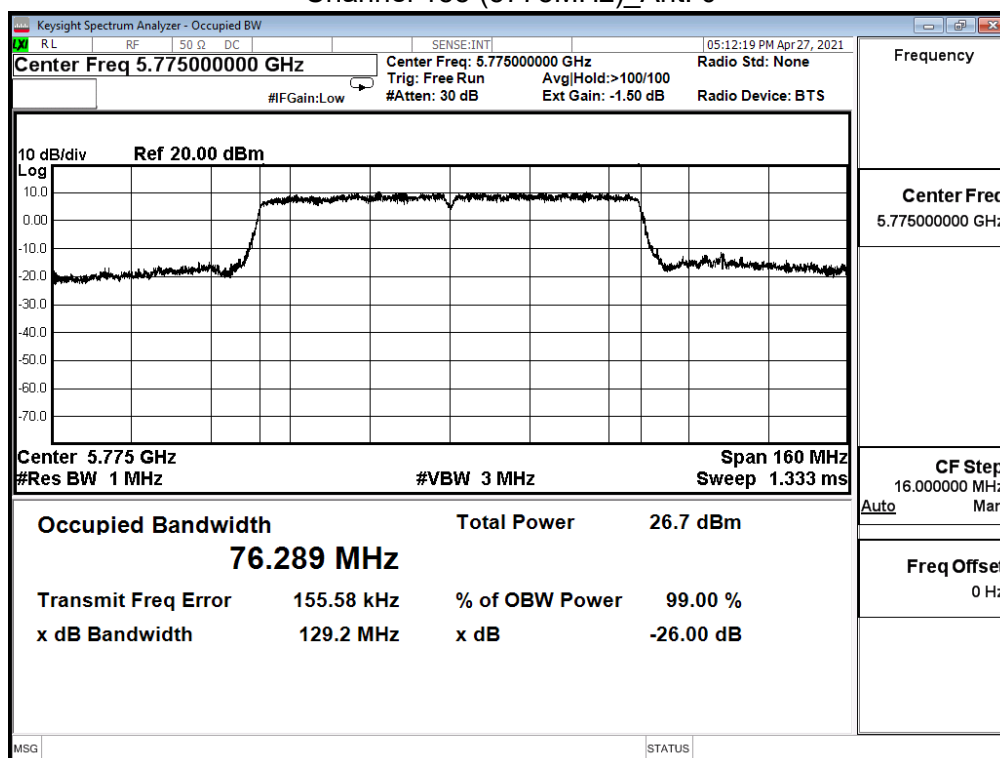
Channel 42 (5210MHz)_Ant. 0



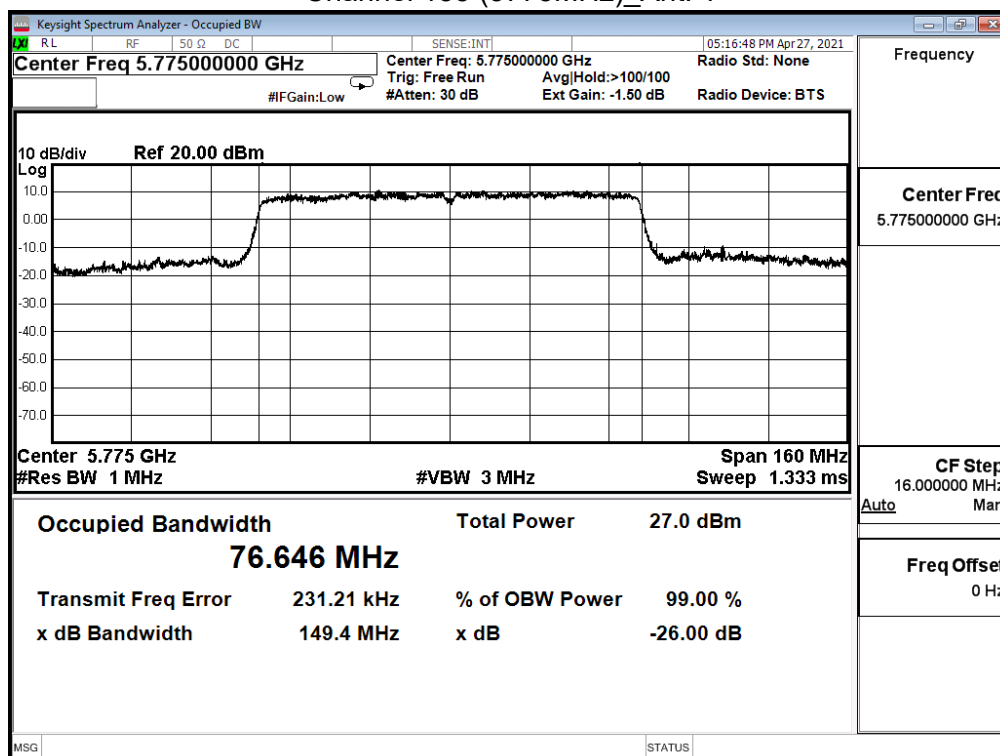
Channel 42 (5210MHz)_Ant. 1



Channel 155 (5775MHz)_Ant. 0



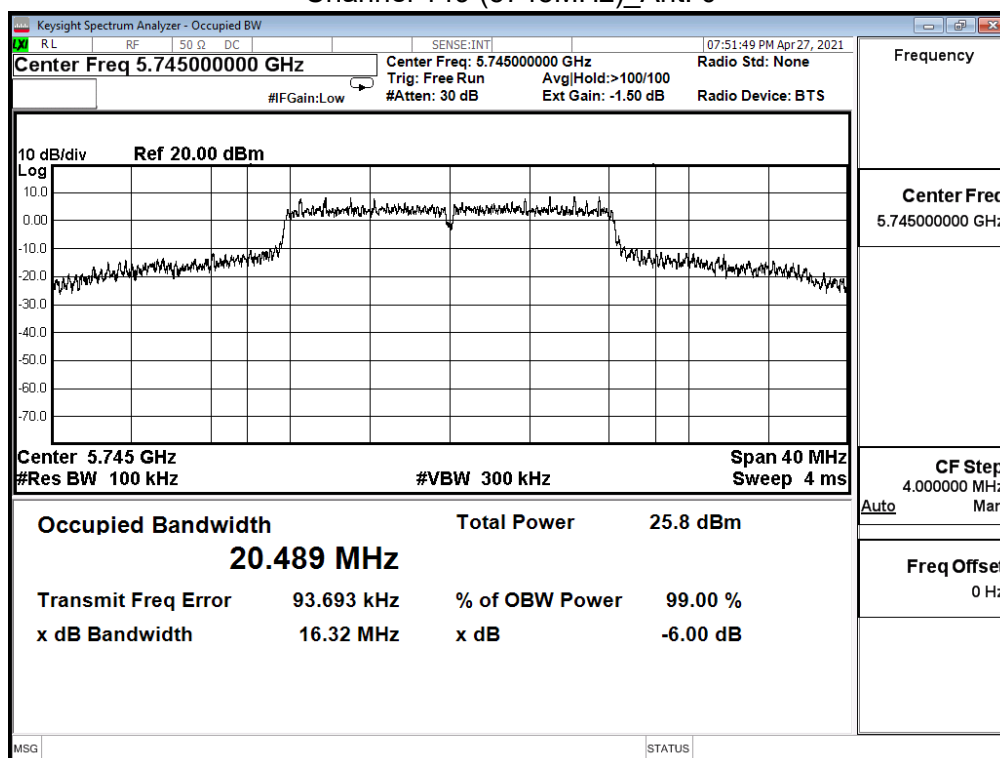
Channel 155 (5775MHz)_Ant. 1



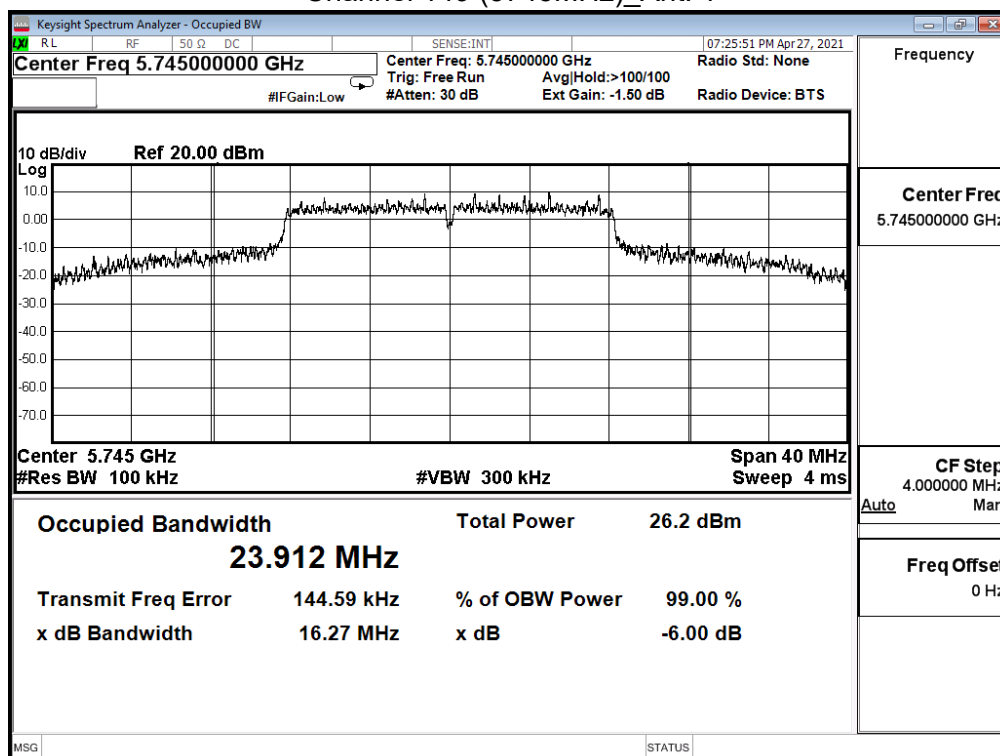
Product	Wireless LAN Access Point		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11a					
Channel No.	Frequency (MHz)	Measure Value (MHz)		Limit (MHz)	Result
		Ant. 0	Ant. 1		
149	5745	16.320	16.270	>0.5	Pass
157	5785	16.310	16.280	>0.5	Pass
165	5825	16.330	16.290	>0.5	Pass

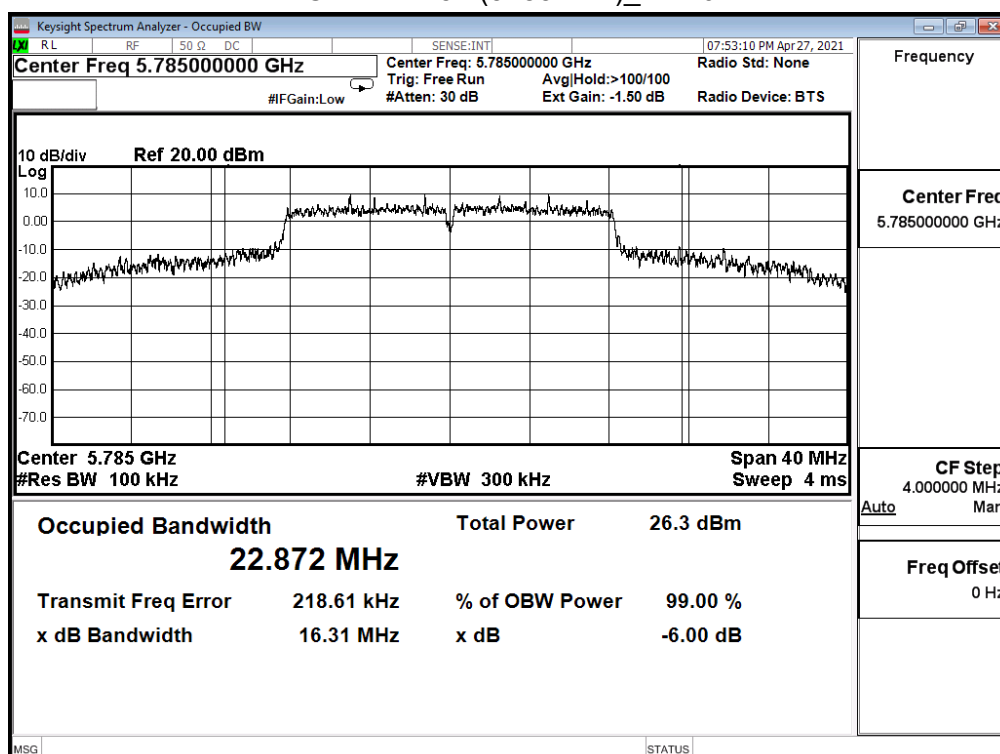
Channel 149 (5745MHz)_Ant. 0



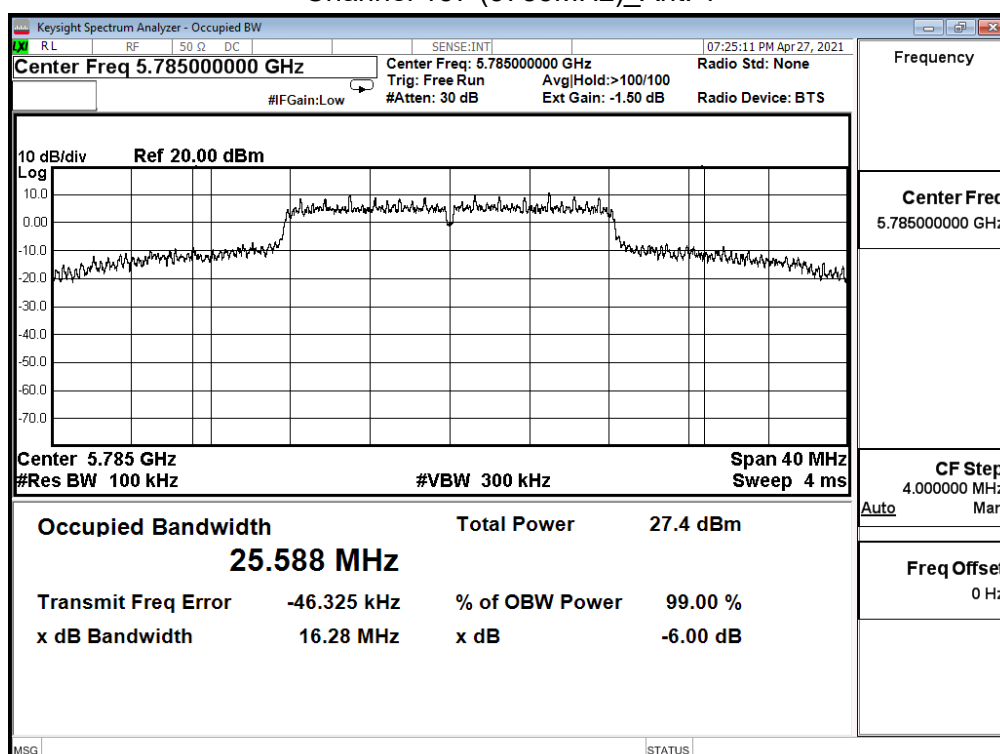
Channel 149 (5745MHz)_Ant. 1



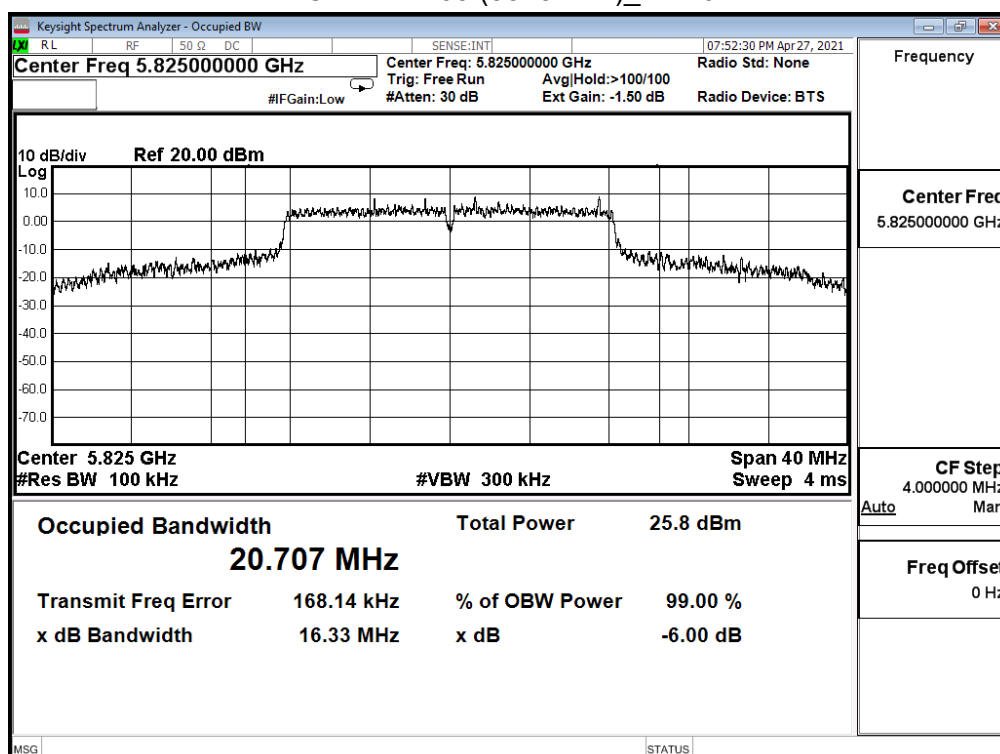
Channel 157 (5785MHz)_Ant. 0



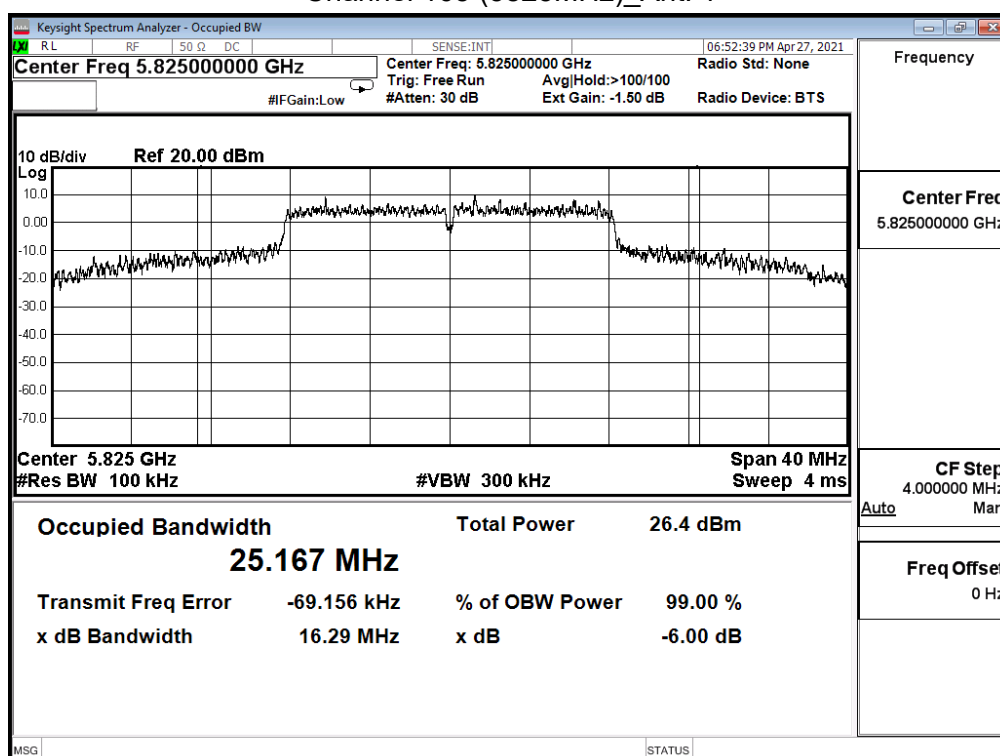
Channel 157 (5785MHz)_Ant. 1



Channel 165 (5825MHz)_Ant. 0



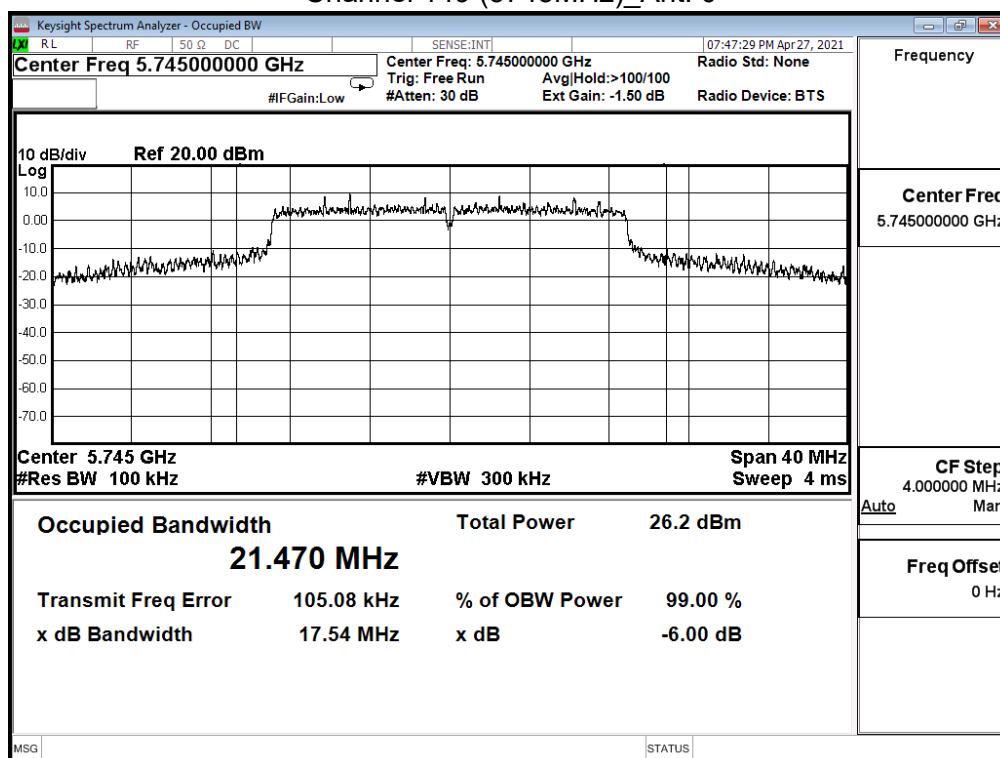
Channel 165 (5825MHz)_Ant. 1



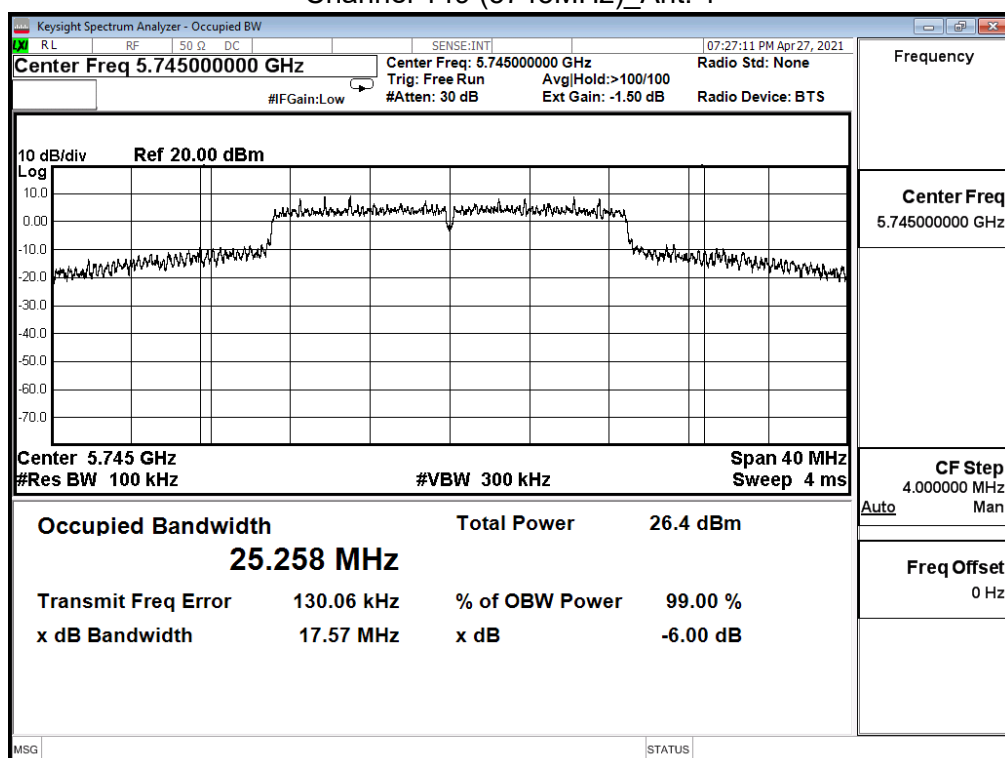
Product	Wireless LAN Access Point		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_20M					
Channel No.	Frequency (MHz)	Measure Value (MHz)		Limit (MHz)	Result
		Ant. 0	Ant. 1		
149	5745	17.540	17.570	>0.5	Pass
157	5785	17.570	17.580	>0.5	Pass
165	5825	17.560	17.550	>0.5	Pass

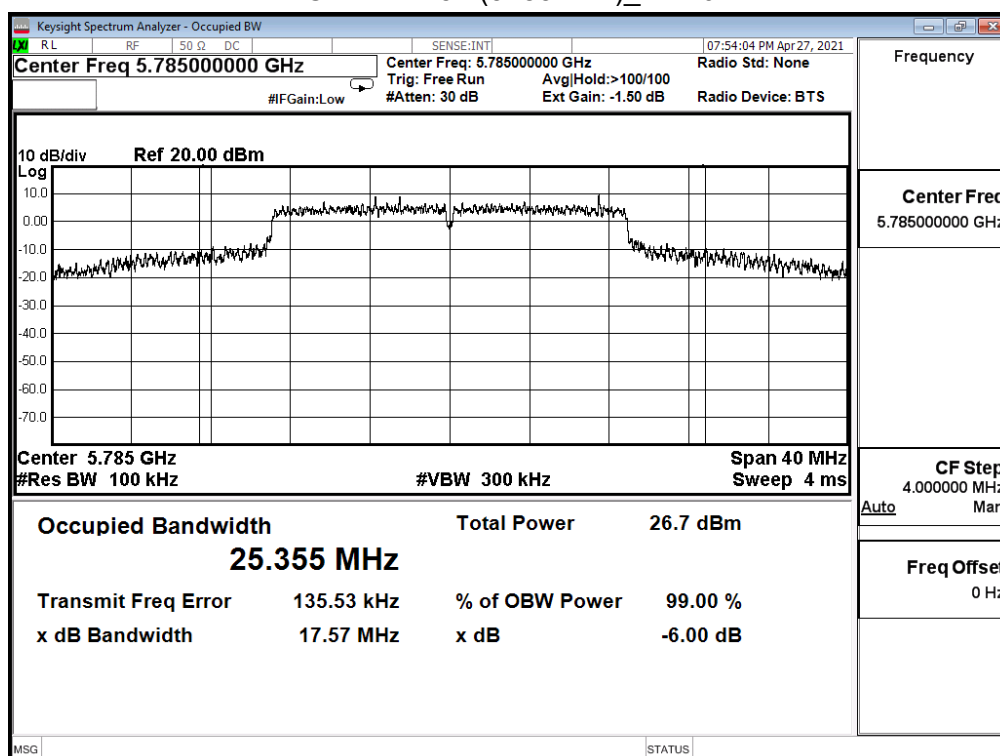
Channel 149 (5745MHz)_Ant. 0



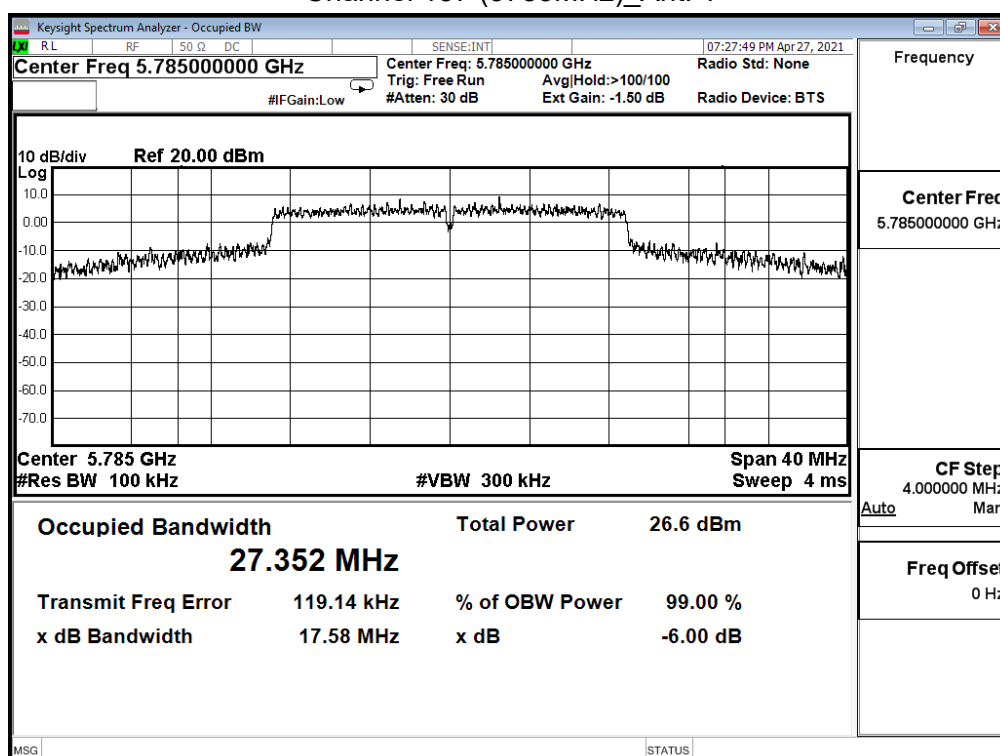
Channel 149 (5745MHz)_Ant. 1



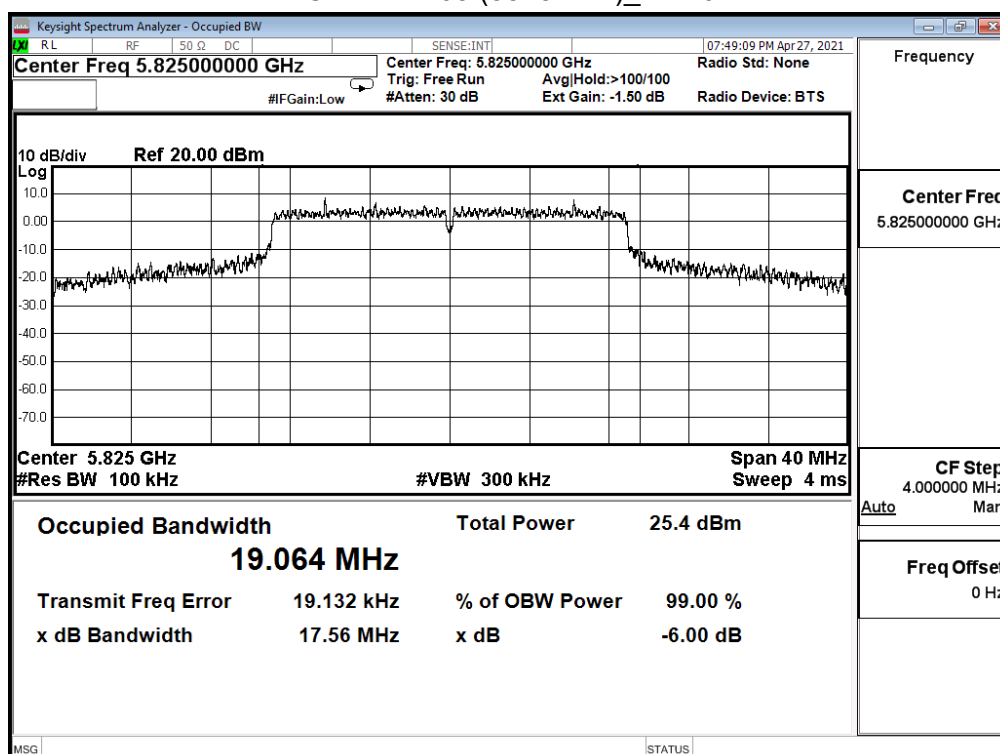
Channel 157 (5785MHz)_Ant. 0



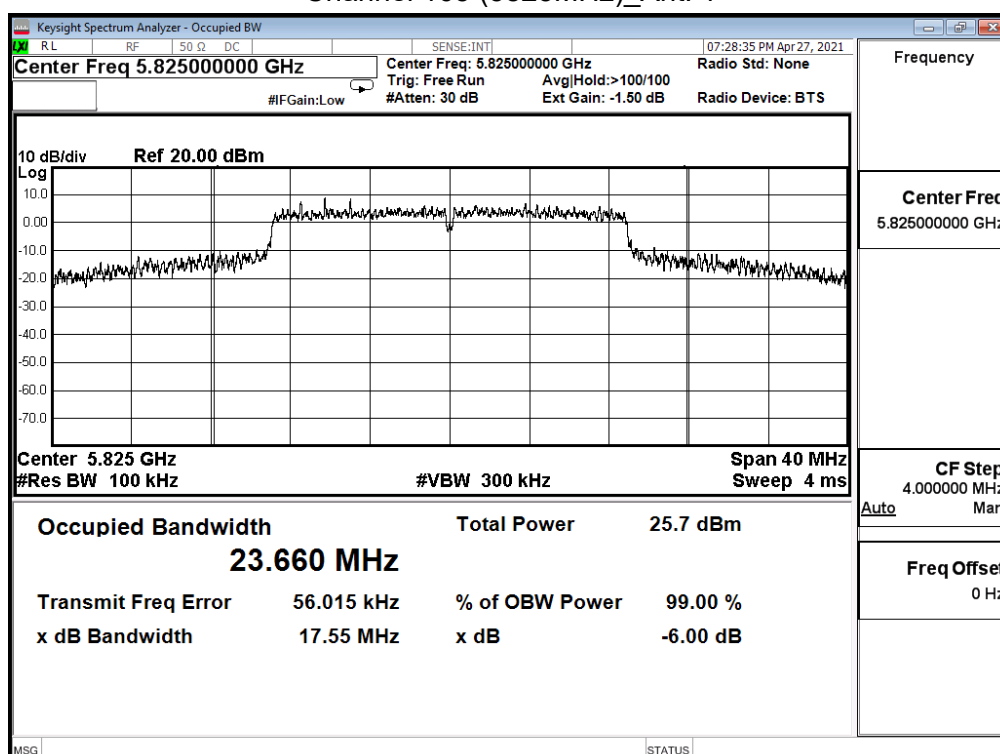
Channel 157 (5785MHz)_Ant. 1



Channel 165 (5825MHz)_Ant. 0



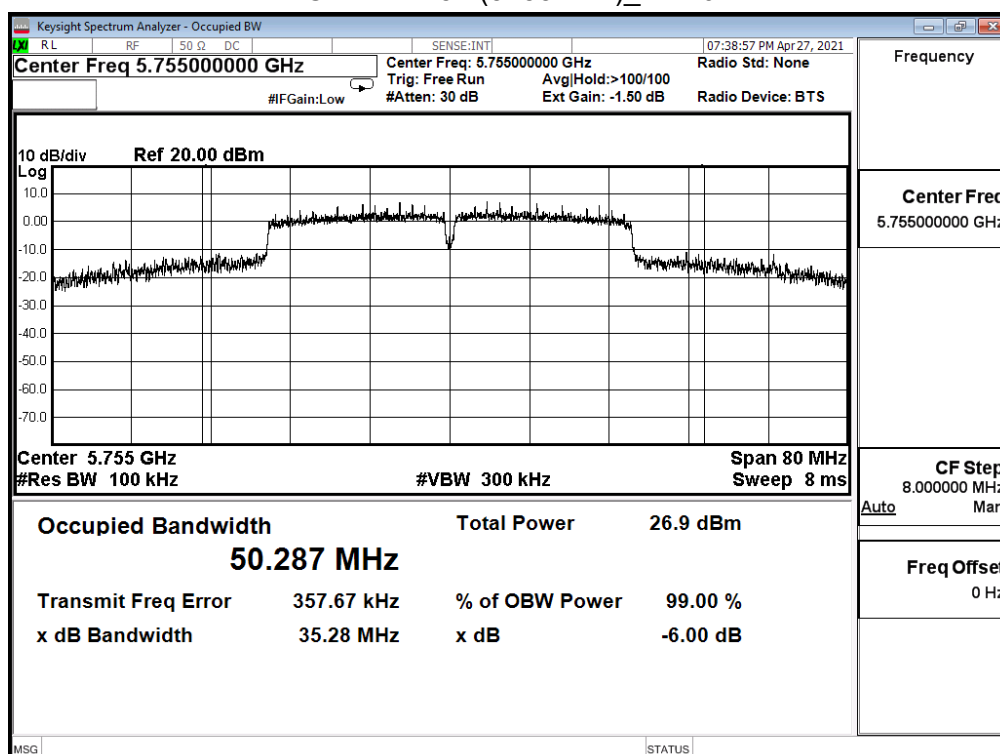
Channel 165 (5825MHz)_Ant. 1



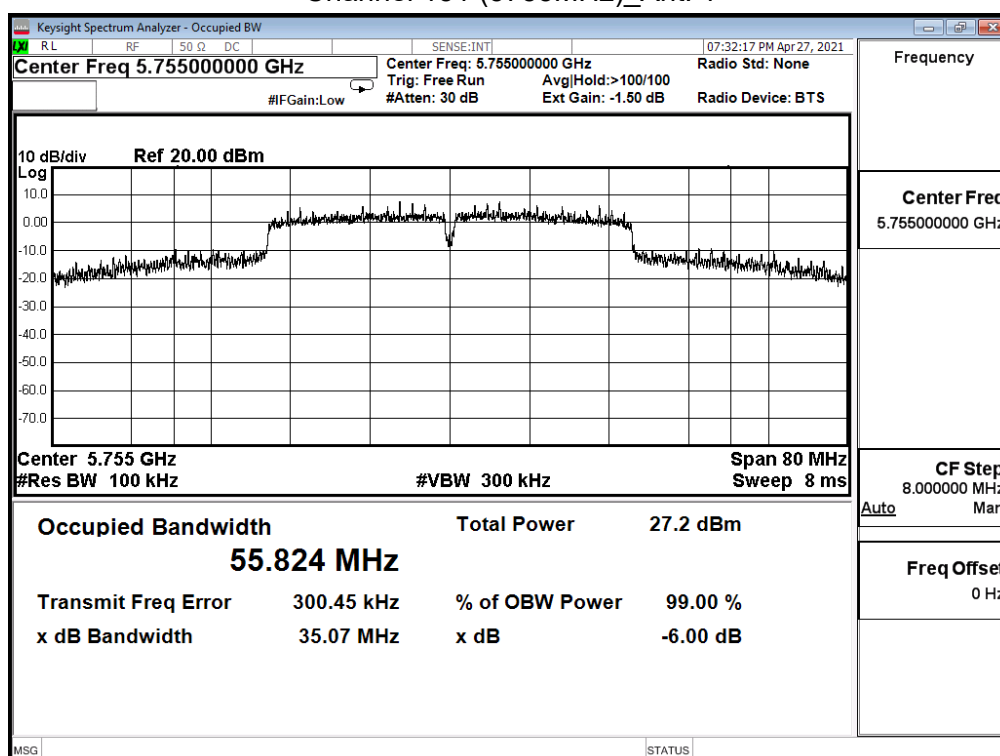
Product	Wireless LAN Access Point		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_40M					
Channel No.	Frequency (MHz)	Measure Value (MHz)		Limit (MHz)	Result
		Ant. 0	Ant. 1		
151	5755	35.280	35.070	>0.5	Pass
159	5795	35.040	34.990	>0.5	Pass

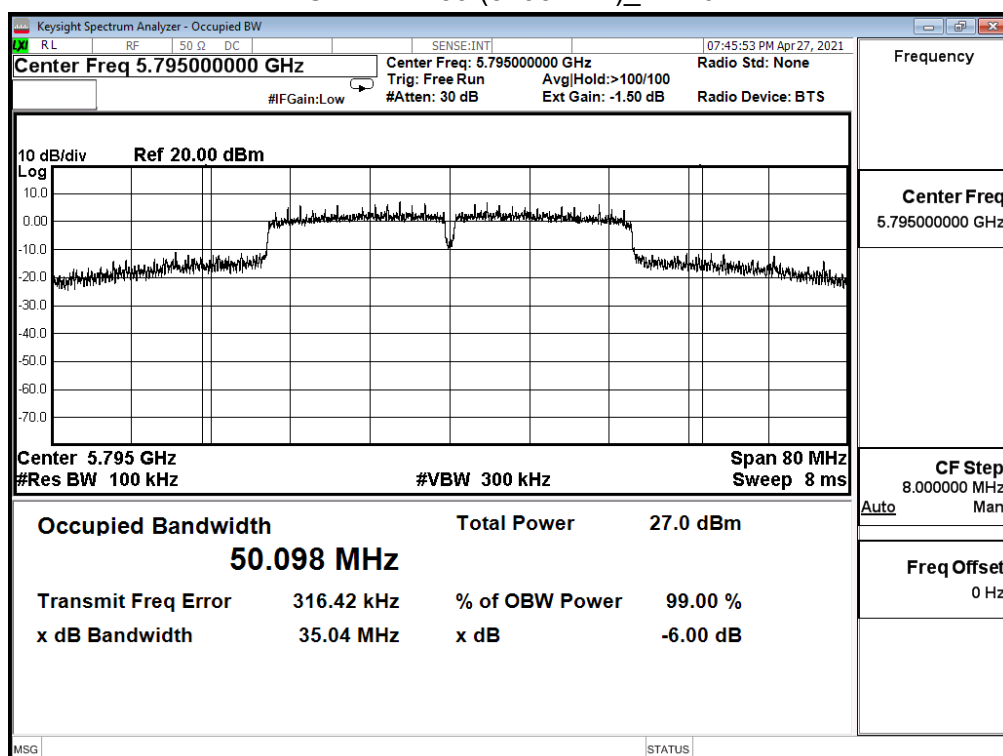
Channel 151 (5755MHz)_Ant. 0



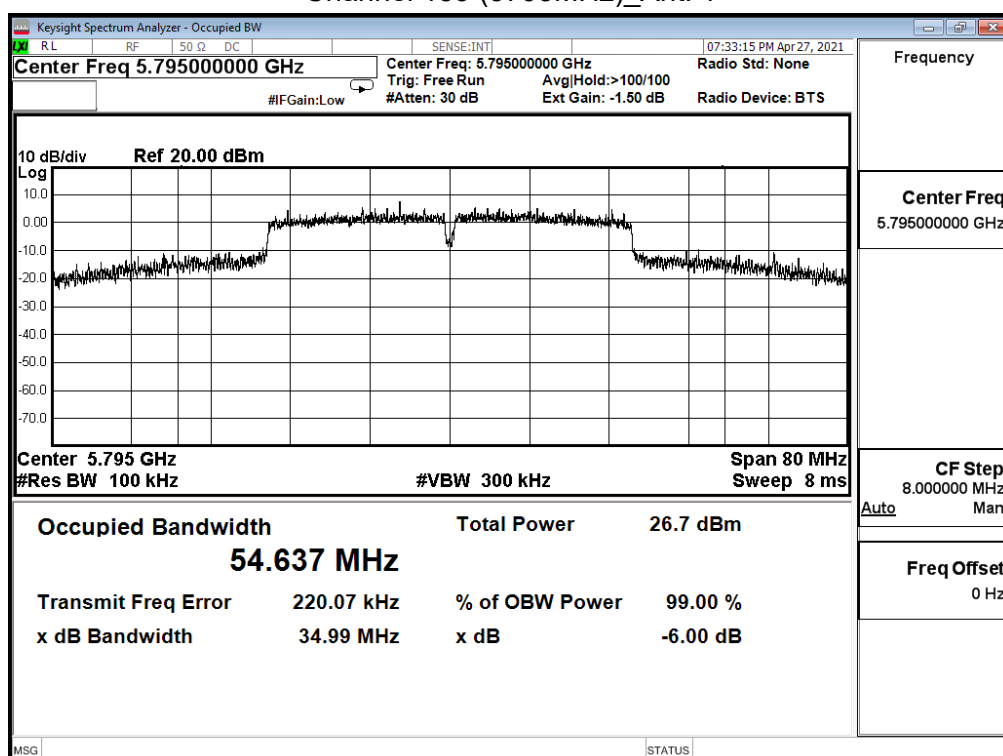
Channel 151 (5755MHz)_Ant. 1



Channel 159 (5795MHz)_Ant. 0



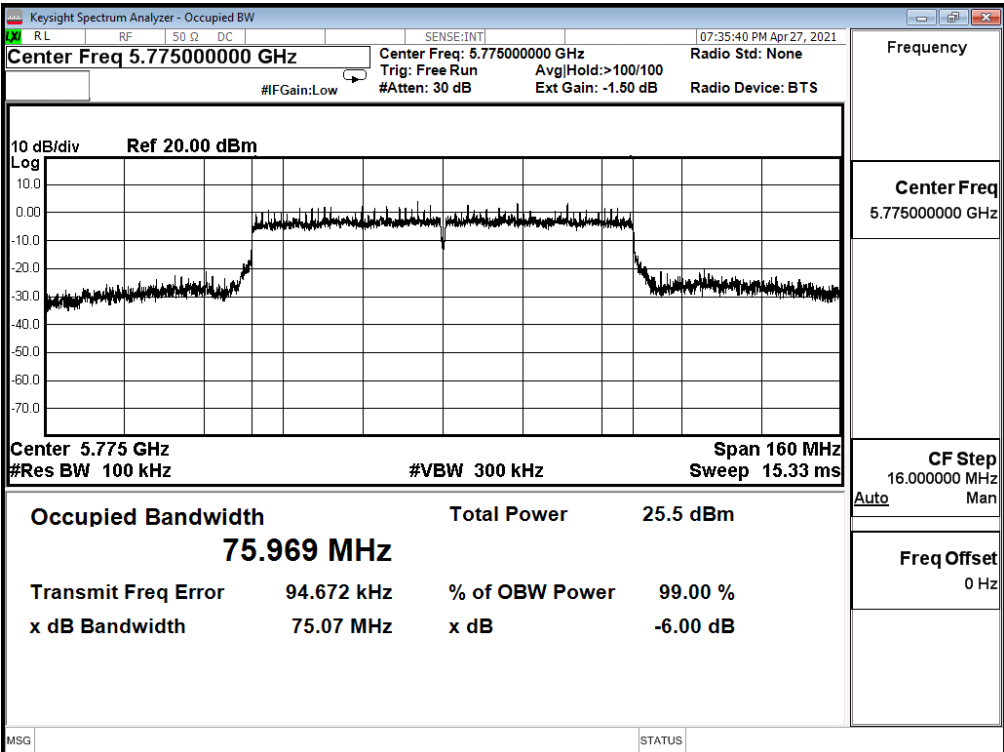
Channel 159 (5795MHz)_Ant. 1



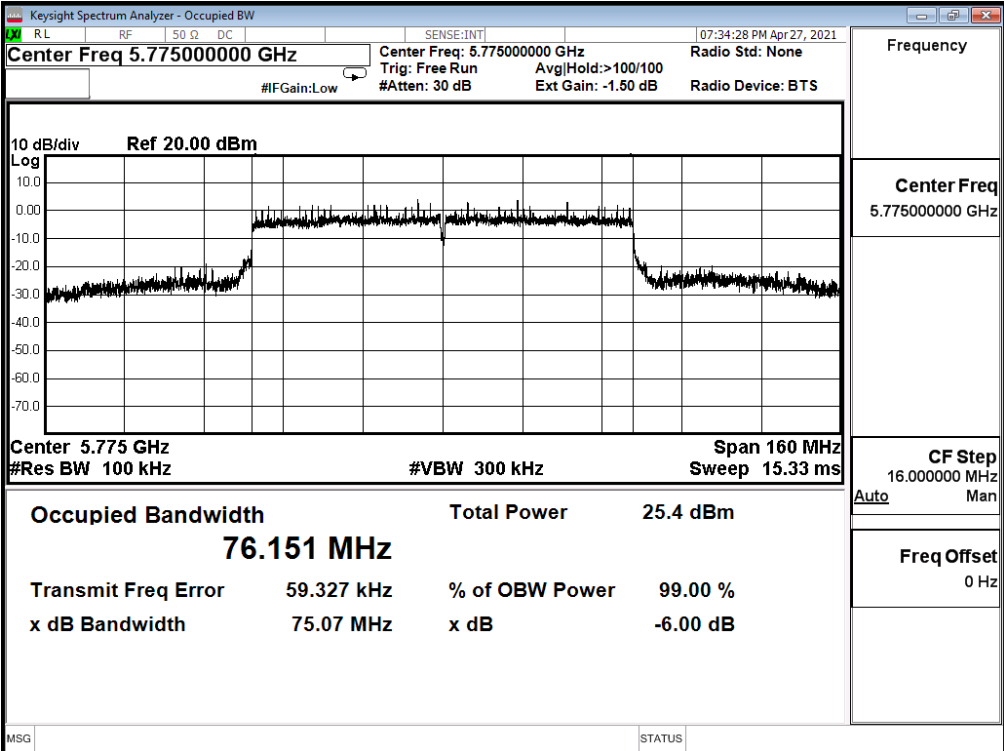
Product	Wireless LAN Access Point		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/27	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	66.0%

IEEE 802.11ac_80M					
Channel No.	Frequency (MHz)	Measure Value (MHz)		Limit (MHz)	Result
		Ant. 0	Ant. 1		
155	5775	75.070	75.070	>0.5	Pass

Channel 155 (5775MHz)_Ant. 0

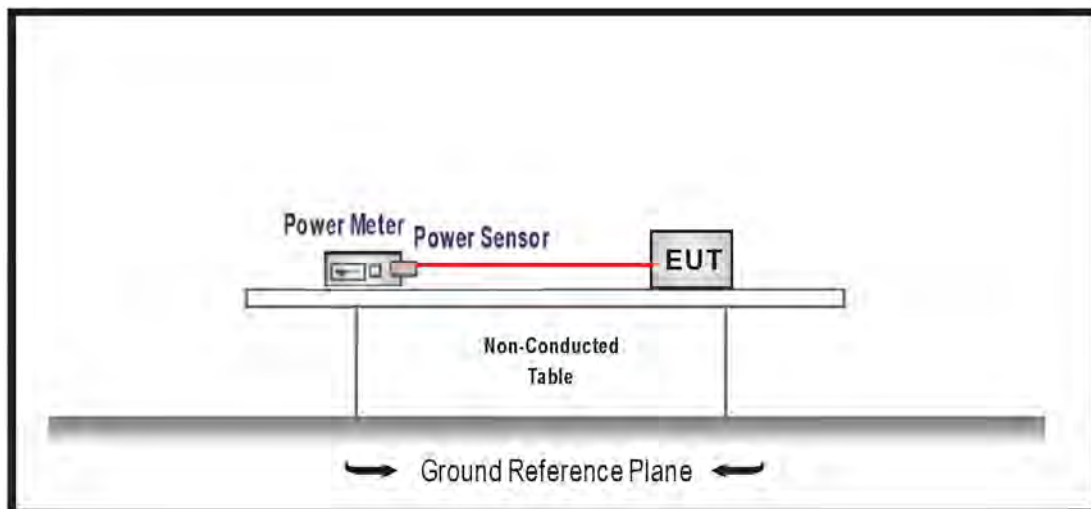


Channel 155 (5775MHz)_Ant. 1



4. Maximum conducted output power

4.1. Test Setup



4.2. Limits

1. For the band 5.15-5.25 GHz, the Maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.25-5.35 GHz, the Maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the Maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 for compliance to FCC 47CFR Subpart E requirements. The Method PM-G of the Maximum conducted output power was used.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

4.4. Test Result

Product	Wireless LAN Access Point		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/13	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11a

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
36	5180	16.070	16.200	19.146	≤ 30.000
44	5220	19.300	19.630	22.478	≤ 30.000
48	5240	18.380	18.610	21.507	≤ 30.000
149	5745	19.830	20.150	23.003	≤ 30.000
157	5785	19.930	20.410	23.187	≤ 30.000
165	5825	19.920	20.490	23.225	≤ 30.000

The worst emission of data rate is 6 Mbps.

IEEE 802.11ac (20MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
36	5180	16.040	16.070	19.065	≤ 30.000
44	5220	19.250	19.510	22.392	≤ 30.000
48	5240	17.900	18.210	21.068	≤ 30.000
149	5745	19.650	19.930	22.803	≤ 30.000
157	5785	20.300	20.160	23.241	≤ 30.000
165	5825	20.100	20.250	23.186	≤ 30.000

The worst emission of data rate is MCS0

Product	Wireless LAN Access Point		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/13	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ac (40MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
38	5190	13.400	13.450	16.435	≤ 30.000
46	5230	18.710	18.750	21.740	≤ 30.000
151	5755	20.010	20.360	23.199	≤ 30.000
159	5795	20.350	20.650	23.513	≤ 30.000

The worst emission of data rate is MCS0

IEEE 802.11ac (80MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
42	5210	14.030	13.900	16.976	≤ 30.000
155	5775	18.530	18.770	21.662	≤ 30.000

The worst emission of data rate is MCS0

Product	Wireless LAN Access Point		
Test Item	Maximum conducted output power		
Test Mode	Mode 3: BF Transmit_ Power by Adapter		
Date of Test	2021/04/13	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11a

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
36	5180	13.060	13.190	16.136	≤ 29.679
44	5220	16.290	16.620	19.468	≤ 29.679
48	5240	15.370	15.600	18.497	≤ 29.679
149	5745	16.820	17.140	19.993	≤ 29.679
157	5785	16.920	17.400	20.177	≤ 29.679
165	5825	16.910	17.480	20.215	≤ 29.679

The worst emission of data rate is 6 Mbps.

IEEE 802.11ac (20MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
36	5180	13.030	13.060	16.055	≤ 29.679
44	5220	16.240	16.500	19.382	≤ 29.679
48	5240	14.890	15.200	18.058	≤ 29.679
149	5745	16.640	16.920	19.793	≤ 29.679
157	5785	17.290	17.150	20.231	≤ 29.679
165	5825	17.090	17.240	20.176	≤ 29.679

The worst emission of data rate is MCS0

Product	Wireless LAN Access Point		
Test Item	Maximum conducted output power		
Test Mode	Mode 3: BF Transmit_ Power by Adapter		
Date of Test	2021/04/13	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ac (40MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
38	5190	10.390	10.440	13.425	≤ 29.679
46	5230	15.700	15.740	18.730	≤ 29.679
151	5755	17.000	17.350	20.189	≤ 29.679
159	5795	17.340	17.640	20.503	≤ 29.679

The worst emission of data rate is MCS0

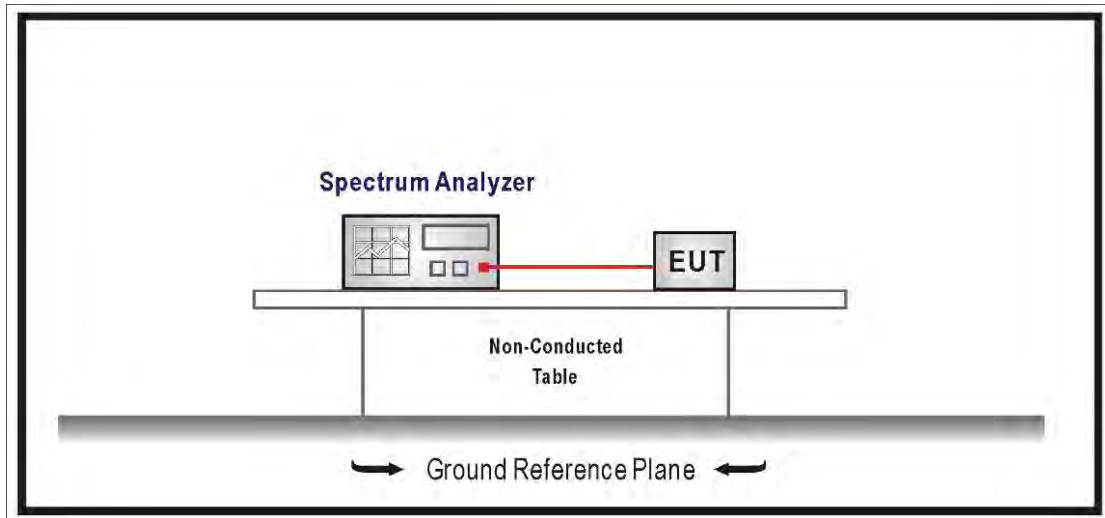
IEEE 802.11ac (80MHz)

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
42	5210	11.020	10.890	13.966	≤ 29.679
155	5775	15.520	15.760	18.652	≤ 29.679

The worst emission of data rate is MCS0

5. Maximum power spectral density

5.1. Test Setup



5.2. Limits

1. For the band 5.15-5.25 GHz, the Maximum power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the Maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the Maximum power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi..

5.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

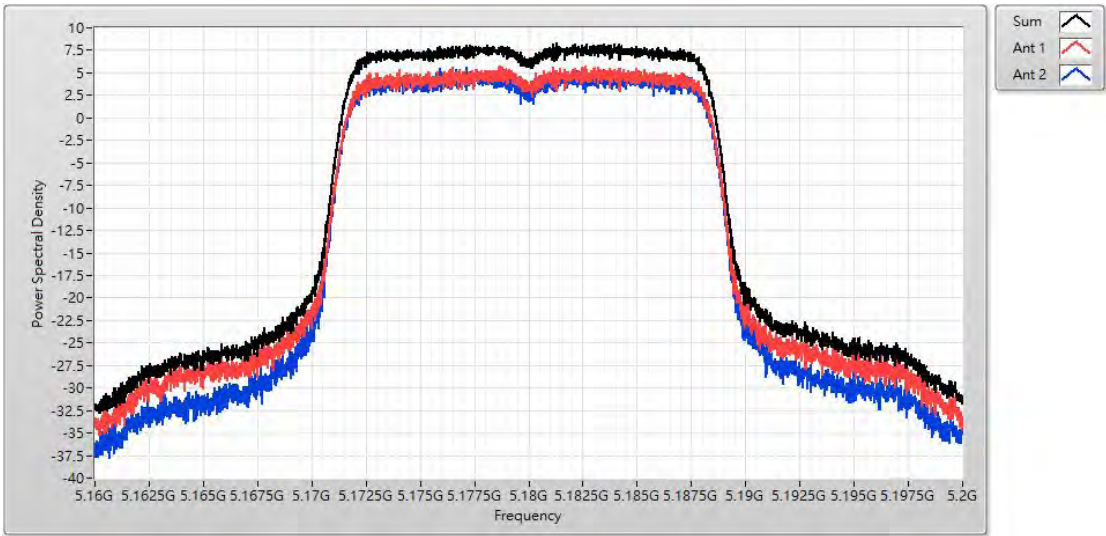
For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.4. Test Result

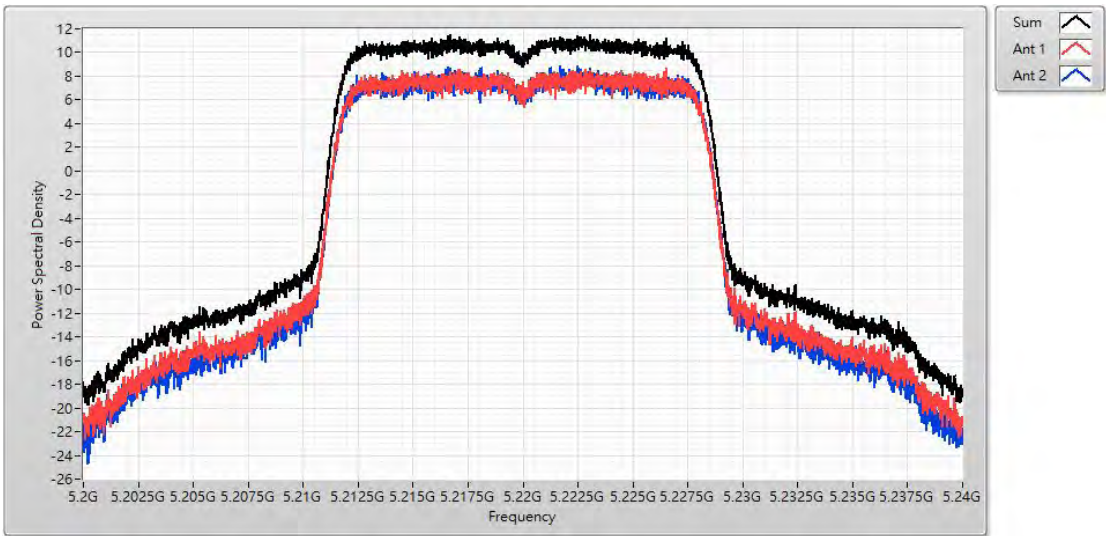
Product	Wireless LAN Access Point		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/28	Test Site	SR12-H
Test Temperature	22.0°C	Test Humidity	67.0%

IEEE 802.11a						
Channel No.	Frequency (MHz)	Power spectral density (dBm)			Limit (dBm)	Result
		Ant. 0	Ant. 1	Total		
36	5180	5.740	5.590	8.300	≤ 16.679	Pass
44	5220	8.650	8.840	11.500	≤ 16.679	Pass
48	5240	8.190	7.670	10.520	≤ 16.679	Pass
149	5745	5.440	5.890	8.430	≤ 29.679	Pass
157	5785	6.090	6.160	8.690	≤ 29.679	Pass
165	5825	6.090	6.430	8.877	≤ 29.679	Pass

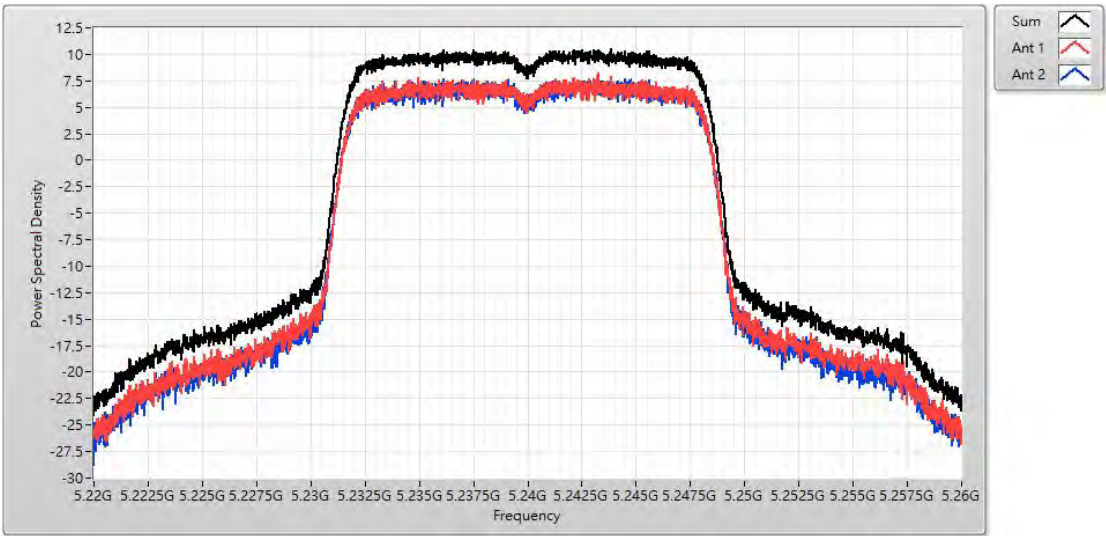
Channel 36 (5180MHz)



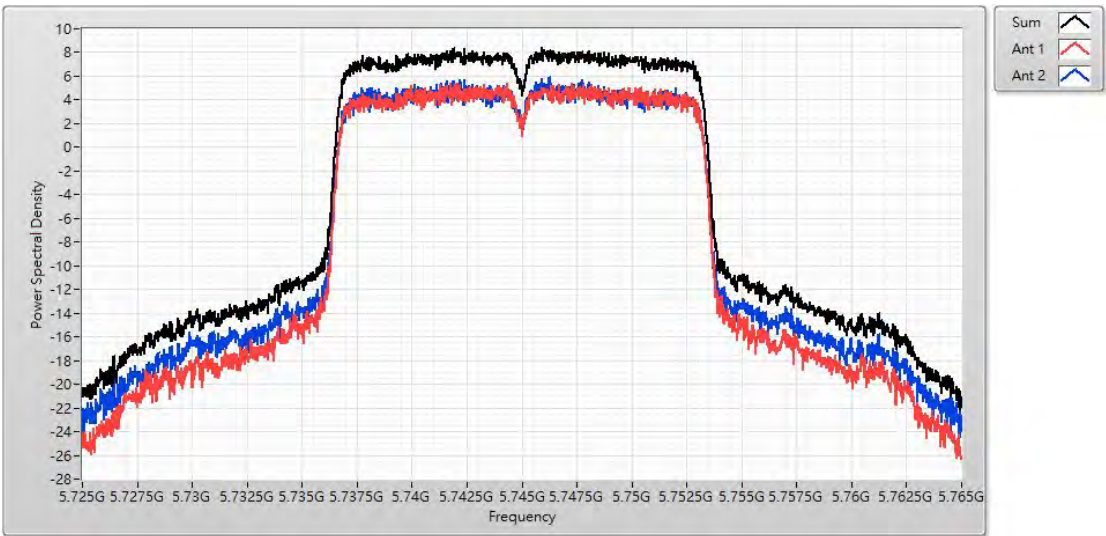
Channel 44 (5220MHz)



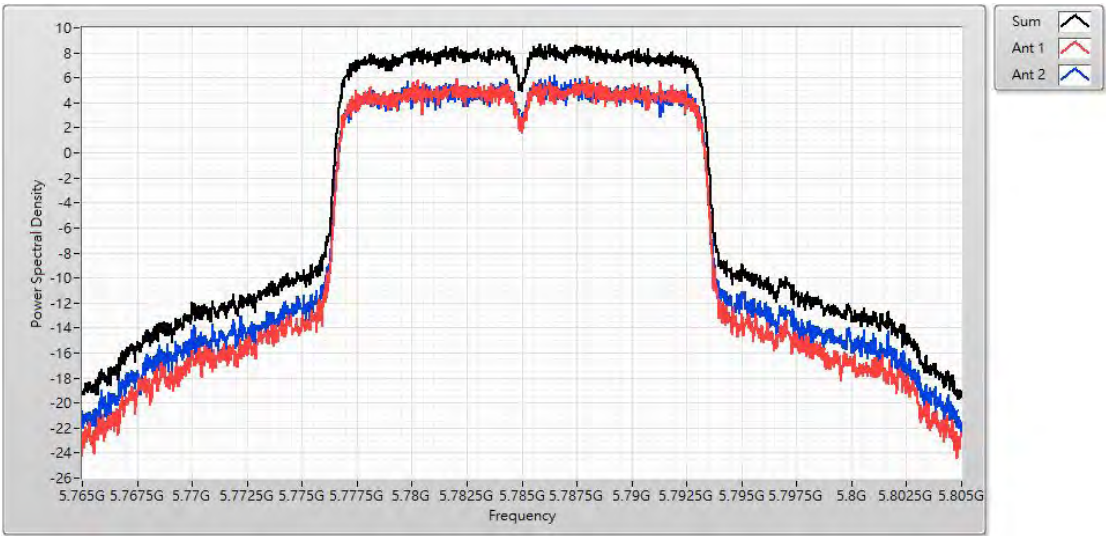
Channel 48 (5240MHz)



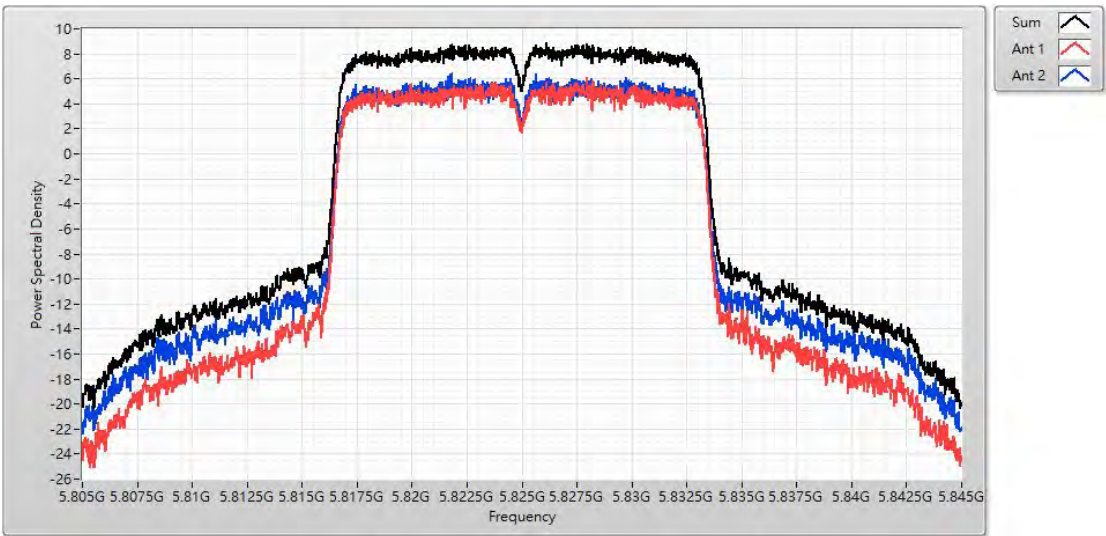
Channel 149 (5745MHz)



Channel 157 (5785MHz)



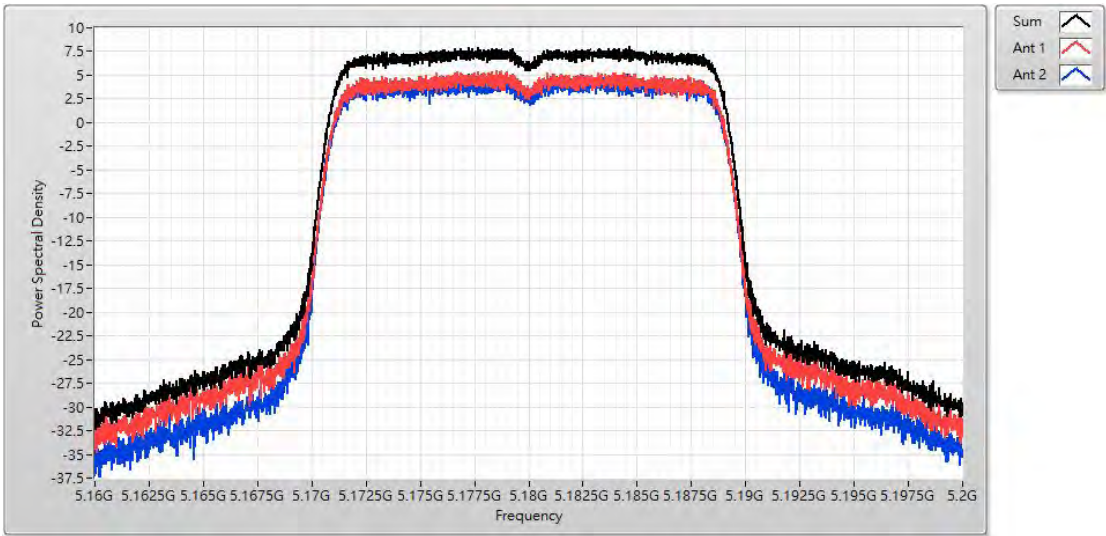
Channel 165 (5825MHz)



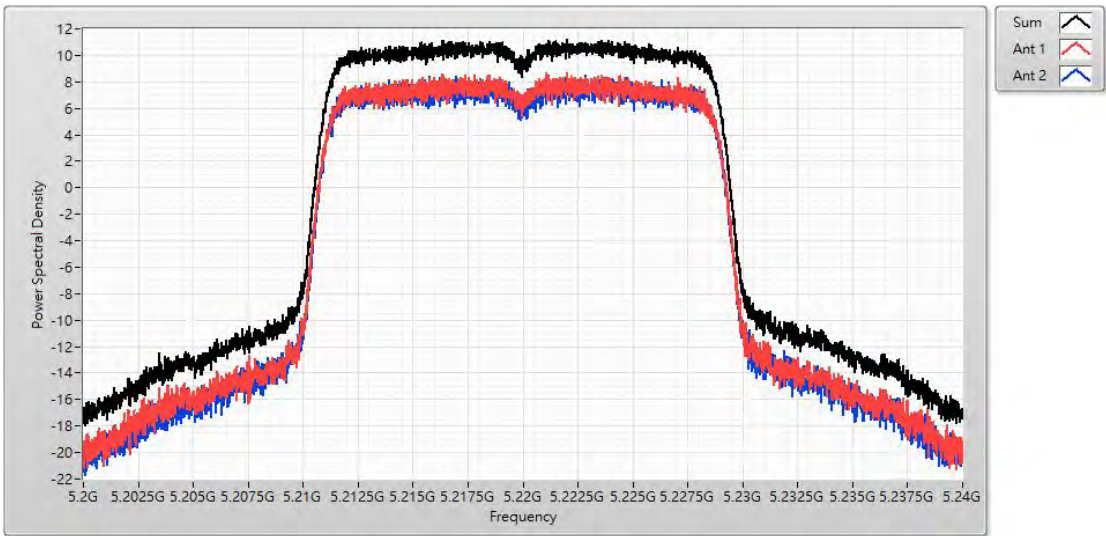
Product	Wireless LAN Access Point		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/28	Test Site	SR12-H
Test Temperature	22.0°C	Test Humidity	67.0%

IEEE 802.11ac (20MHz)						
Channel No.	Frequency (MHz)	Power spectral density (dBm)			Limit (dBm)	Result
		Ant. 0	Ant. 1	Total		
36	5180	5.430	5.100	8.040	≤ 16.679	Pass
44	5220	8.680	8.480	11.250	≤ 16.679	Pass
48	5240	7.120	7.270	9.910	≤ 16.679	Pass
149	5745	5.29	5.540	8.060	≤ 29.679	Pass
157	5785	5.98	6.040	8.910	≤ 29.679	Pass
165	5825	5.36	5.680	8.440	≤ 29.679	Pass

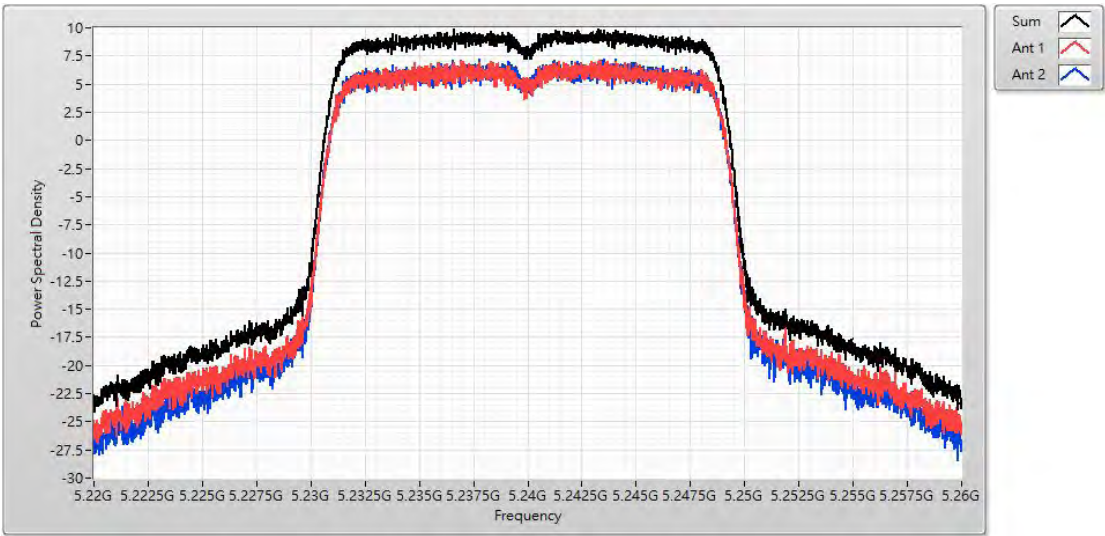
Channel 36 (5180MHz)



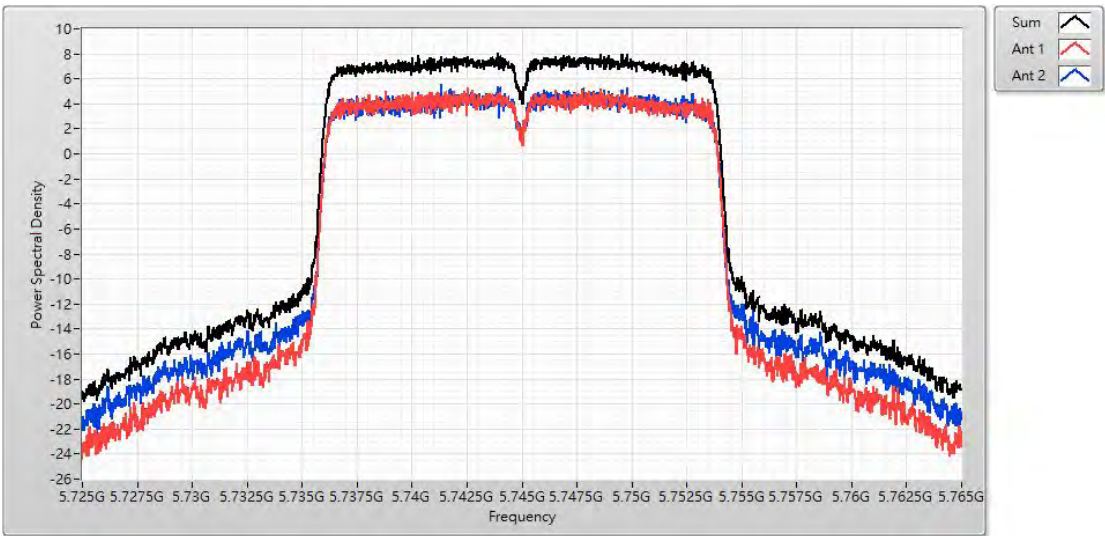
Channel 44 (5220MHz)



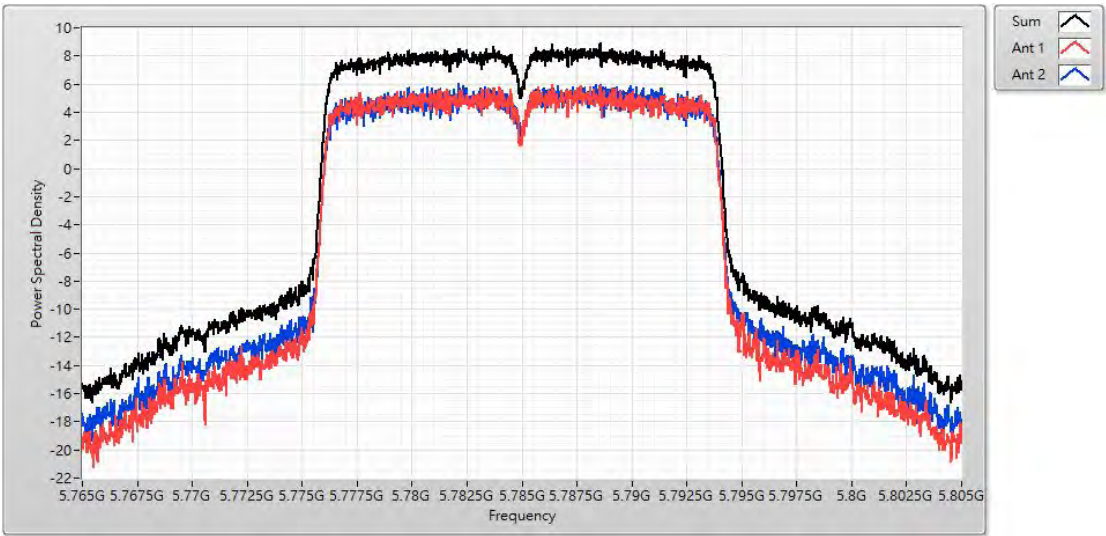
Channel 48 (5240MHz)



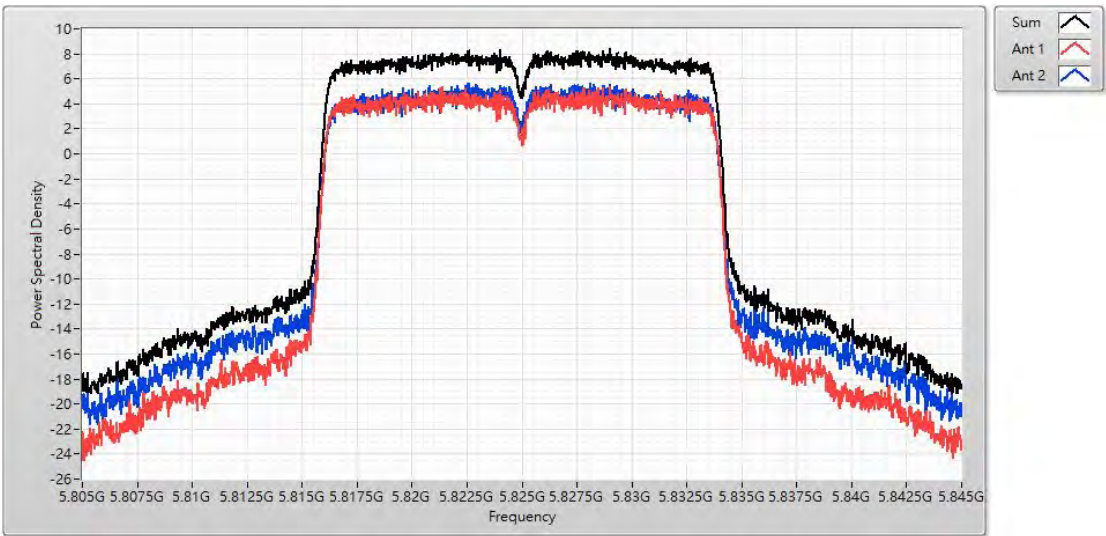
Channel 149 (5745MHz)



Channel 157 (5785MHz)



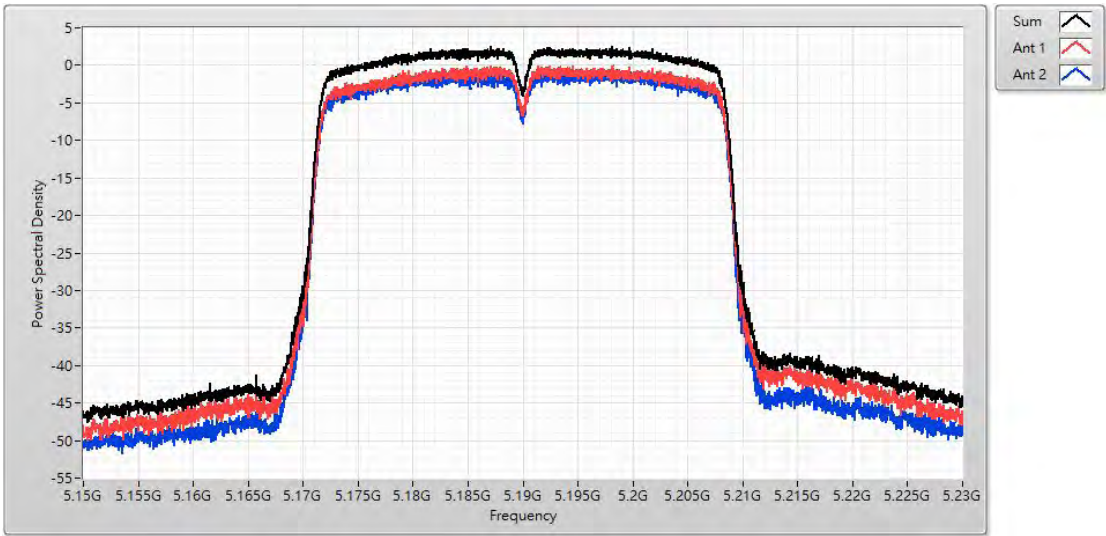
Channel 165 (5825MHz)



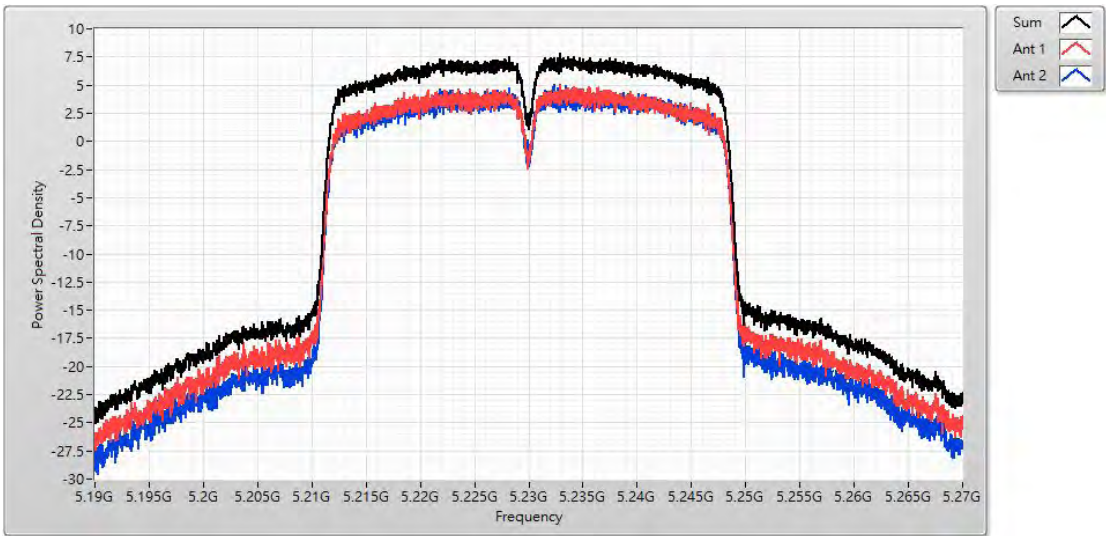
Product	Wireless LAN Access Point		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/28	Test Site	SR12-H
Test Temperature	22.0°C	Test Humidity	67.0%

IEEE 802.11ac (40MHz)						
Channel No.	Frequency (MHz)	Power spectral density (dBm)			Limit (dBm)	Result
		Ant. 0	Ant. 1	Total		
38	5190	-0.04	-0.55	2.510	≤ 16.679	Pass
46	5230	5.02	5.020	7.860	≤ 16.679	Pass
151	5755	3.02	3.370	5.840	≤ 29.679	Pass
159	5795	3.19	3.370	5.960	≤ 29.679	Pass

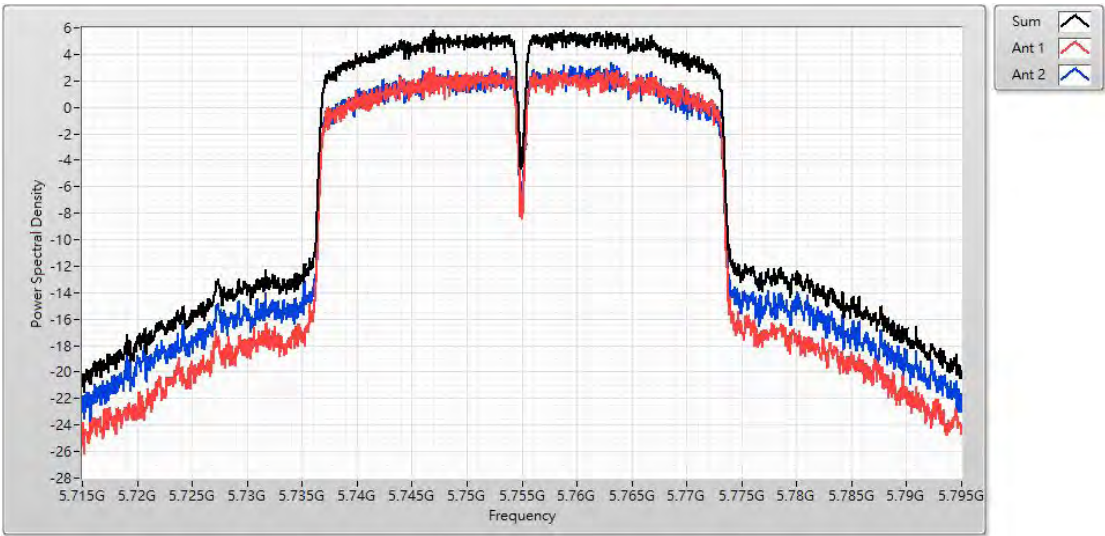
Channel 38 (5190MHz)



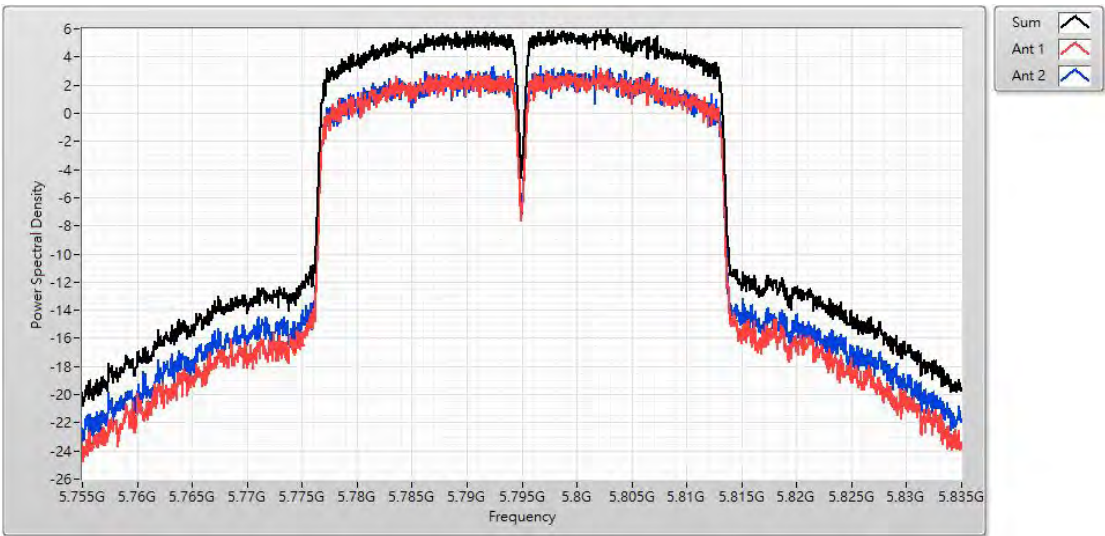
Channel 46 (5230MHz)



Channel 151 (5755MHz)



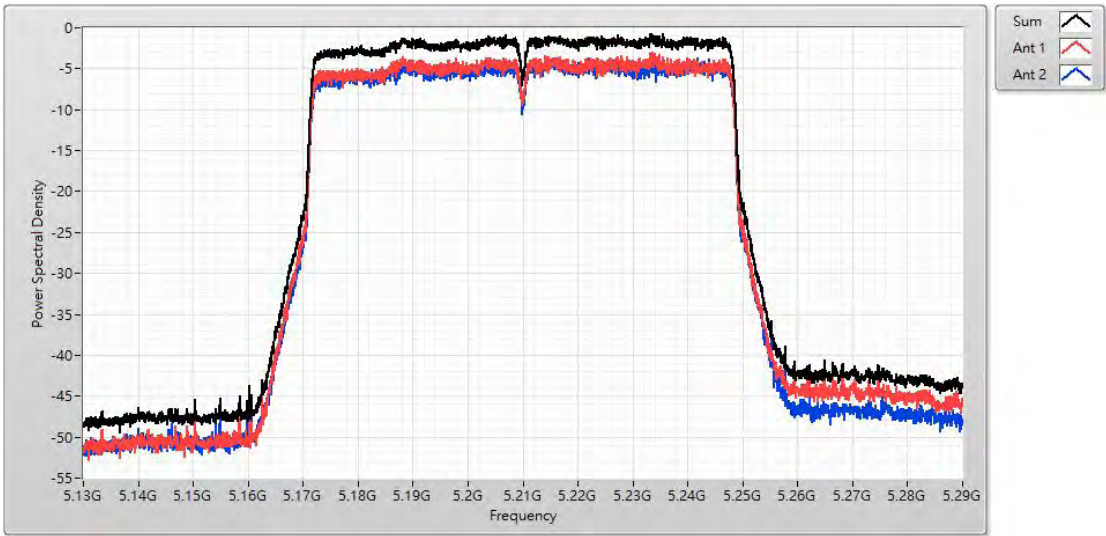
Channel 159 (5795MHz)



Product	Wireless LAN Access Point		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Non-BF Transmit_ Power by Adapter		
Date of Test	2021/04/28	Test Site	SR12-H
Test Temperature	22.0°C	Test Humidity	67.0%

IEEE 802.11ac (80MHz)						
Channel No.	Frequency (MHz)	Power spectral density (dBm)			Limit (dBm)	Result
		Ant. 0	Ant. 1	Total		
42	5210	-2.960	-3.620	-0.690	≤ 16.679	Pass
155	5775	-1.400	-1.620	1.110	≤ 29.679	Pass

Channel 42 (5210MHz)



Channel 155 (5775MHz)

