

FCC Test Report

Product Name : DUAL BAND WI-FI 6 MESH EXTENDER DEVICE

Trade Name : ALTICE, ALTICE LABS

Model No. : D2260G

FCC ID : 2ACJF-EXT-D2260G

Applicant : Altice Labs, S.A.

Address : Rua Eng. Ferreira Pinto Basto, 3810-106, Aveiro, Portugal

Date of Receipt : Jul. 23, 2020

Issued Date : Dec. 10, 2020

Report No. : 2070873R-E3032110123

Report Version : V2.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Dec. 10, 2020

Report No. : 2070873R-E3032110123



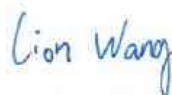
Product Name : DUAL BAND WI-FI 6 MESH EXTENDER DEVICE
Applicant : Altice Labs, S.A.
Address : Rua Eng. Ferreira Pinto Basto, 3810-106, Aveiro, Portugal
Manufacturer : Altice Labs, S.A.
Address : Rua Eng. Ferreira Pinto Basto, 3810-106, Aveiro, Portugal
Model No. : D2260G
Trade Name : ALTICE, ALTICE LABS
FCC ID : 2ACJF-EXT-D2260G
EUT Voltage : AC 100~240V, 50/60Hz
Testing 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
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TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :



(Lion Wang / Senior Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Nov. 27, 2020
V2.0	Add Antenna Manufacturer & PN Information	Dec. 10, 2020

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1. General Information

1.1. EUT Description

Product Name	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE	
Trade Name	ALTICE, ALTICE LABS	
Model No.	D2260G	
Frequency Range/ Channel Number	IEEE 802.11a/n/ac/ax (20MHz)	5180~5240MHz / 4 Channels 5745~5825MHz / 5 Channels
	IEEE 802.11n/ac/ax (40MHz)	5190~5230MHz / 2 Channels 5755~5795MHz / 2 Channels
	IEEE 802.11ac/ax (80MHz)	5210~5210MHz / 1 Channel 5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac/ax	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 32 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac Proprietary MCS 10-MCS 11 (1024QAM)
	IEEE 802.11ax	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in 802.11ax

Antenna Information				
Ant. No.	Manufacturer	PN	Ant. Type	Ant. Gain
0	Galtronics / Lusomatrix	02102073-06976G1 / W24LB00P126GY3-A1	PIFA	2.4GHz: 4.3 dBi
1		02102073-06976G2 / W24LB00P040GN1-A2		2.4GHz: 3.4 dBi
2		02102142-06976G1 / W50HB00P095RD1-A1		5GHz: 5.8 dBi
3		02102142-06976G2 / W50HB00P110WE1-A2		5GHz: 5.0 dBi
4		02102142-06976G3 / W50HB00P055BK1-A3		5GHz: 4.1 dBi
5		02102142-06976G4 / W50HB00P035OE1-A4		5GHz: 4.1 dBi

Accessories Information	
Power Adapter	SUNUN; SA12V-120100U I/P: 100~240V~ 50/60Hz 0.4A O/P: DC 12V $\equiv$ 1A Cable Out: Non-Shielded, 2m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac/ax	✓	✓	✓	✓	✓	✓

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac/ax (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 (40MHz) & IEEE 802.11ac/ax (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/ax (80MHz)

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

Note:

1. This device including 2.4GHz b/g/n/ax and 5GHz a/n/ac/ax transmitting and receiving functions.
2. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case to representative mode in test report.
4. The EUT description is from the customer declaration.

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: SISO Mode (802.11a) Mode 2: CDD Mode (802.11ac/ax)
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Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	a	44	2/3/4/5	Complies
	11ac/ax(20MHz)	44	2/3/4/5	Complies
	11ac/ax(40MHz)	38	2/3/4/5	Complies
	11ac/ax(80MHz)	42	2/3/4/5	Complies
26dB & 99% & DTS Bandwidth	a	36/44/48/149/157/165	2/3/4/5	Complies
	11ac/ax(20MHz)	36/44/48/149/157/165	2/3/4/5	Complies
	11ac/ax(40MHz)	38/46/151/159	2/3/4/5	Complies
	11ac/ax(80MHz)	42/155	2/3/4/5	Complies
Maximum conducted output power	a	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(20MHz)	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(40MHz)	38/46/151/159	2+3+4+5	Complies
	11ac/ax(80MHz)	42/155	2+3+4+5	Complies
Maximum power spectral density	a	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(20MHz)	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(40MHz)	38/46/151/159	2+3+4+5	Complies
	11ac/ax(80MHz)	42/155	2+3+4+5	Complies
Radiated Emission	a	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(20MHz)	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(40MHz)	38/46/151/159	2+3+4+5	Complies
	11ac/ax(80MHz)	42/155	2+3+4+5	Complies
Band Edge	a	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(20MHz)	36/44/48/149/157/165	2+3+4+5	Complies
	11ac/ax(40MHz)	38/46/151/159	2+3+4+5	Complies
	11ac/ax(80MHz)	42/155	2+3+4+5	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).

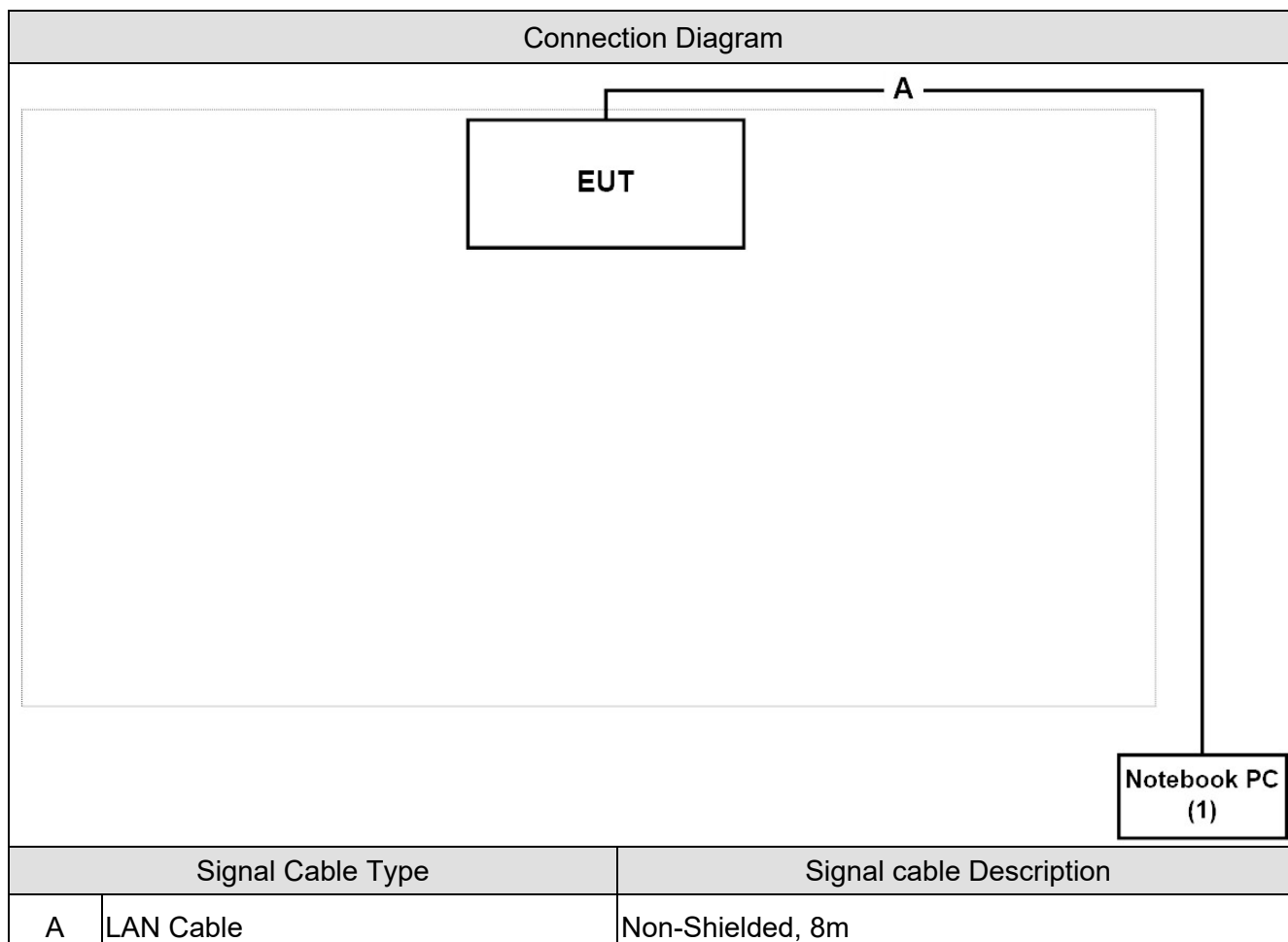
Note 2: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	Lenove	80SJ	MP16Z7TB	DoC	Non-Shielded, 2 m

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the Broadcom command.
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending continuously.
5	Verify that the EUT works 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	2020/01/08	2021/01/07
Test Receiver	R&S	ESCS 30	836858/022	2020/02/25	2021/02/24
LISN	R&S	ENV216	100092	2020/06/22	2021/06/21

26dB & 99% & DTS 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	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

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	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
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	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09	2021/03/08
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Band Reject Filter	Micro-Tronics	BRM50716	G089	2020/03/18	2021/03/17
Band Reject Filter	Micro-Tronics	BRM50716	G068	2020/03/09	2021/03/08
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
EMI system	DEKRA	Version 1.0	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	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09	2021/03/08
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Band Reject Filter	Micro-Tronics	BRM50716	G089	2020/03/18	2021/03/17
Band Reject Filter	Micro-Tronics	BRM50716	G068	2020/03/09	2021/03/08
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
EMI system	DEKRA	Version 1.0	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	1/T Minimum VBW (kHz)
802.11a (SISO Mode)	2.054	2.083	98.61%	0.121777	0.01
802.11 VHT20 (CDD Mode)	1.920	1.954	98.26%	0.152467	0.01
802.11 VHT40 (CDD Mode)	0.944	0.971	97.16%	0.250415	1.06
802.11 VHT80 (CDD Mode)	0.431	0.484	89.09%	1.003772	2.32
802.11 VHE20 (CDD Mode)	1.522	1.560	97.56%	0.214199	0.66
802.11 VHE40 (CDD Mode)	0.787	0.811	97.09%	0.256669	1.27
802.11 VHE80 (CDD Mode)	0.392	0.428	91.68%	0.754295	2.55

Note:

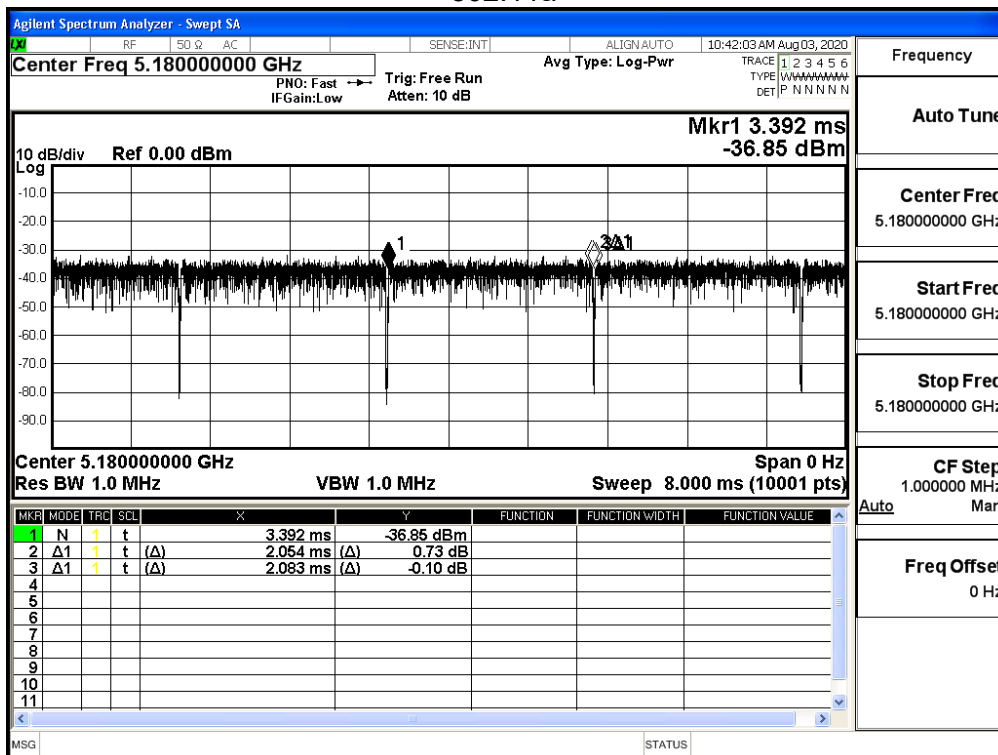
Offset = $20 \log(1/\text{duty cycle})$

According to KDB 789033

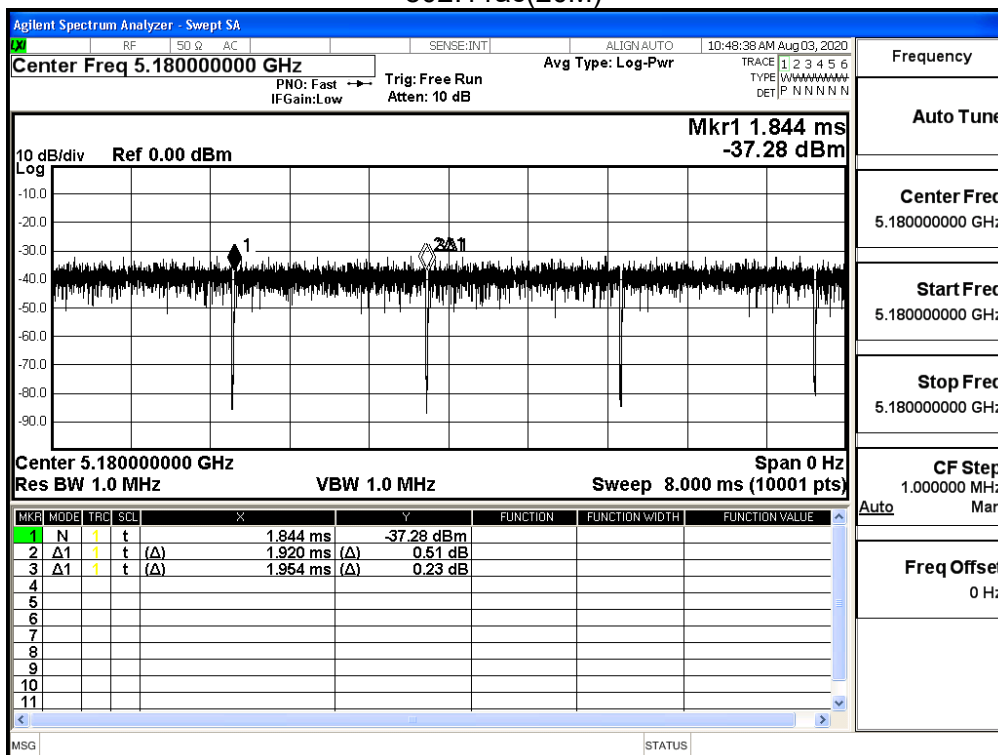
If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

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.

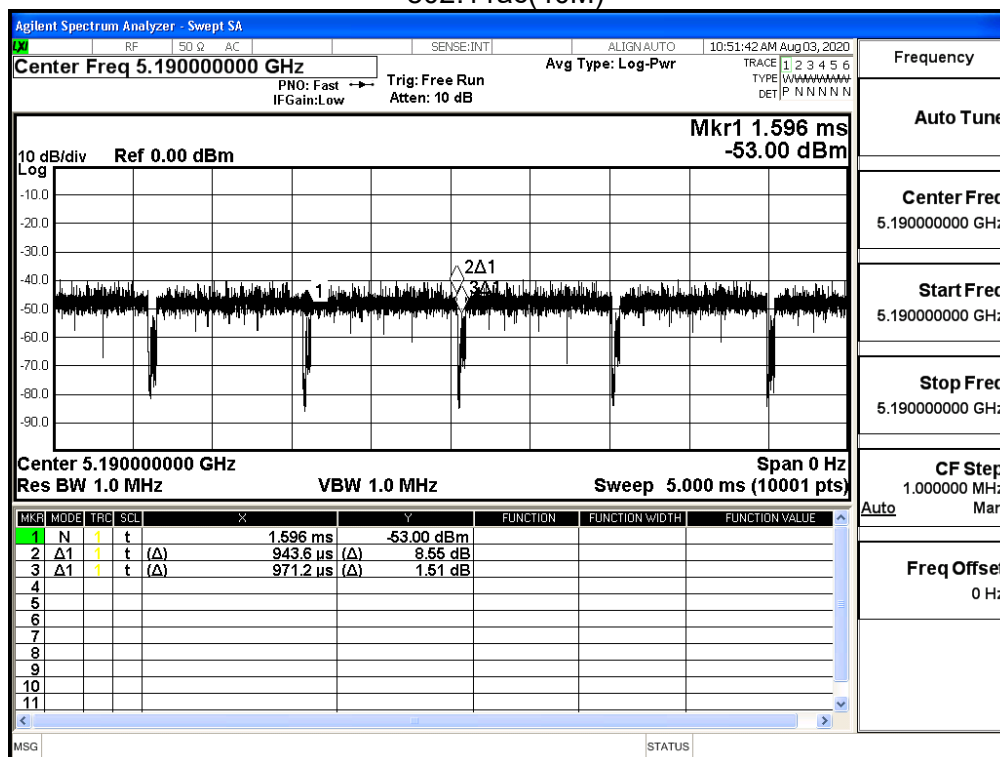
802.11a



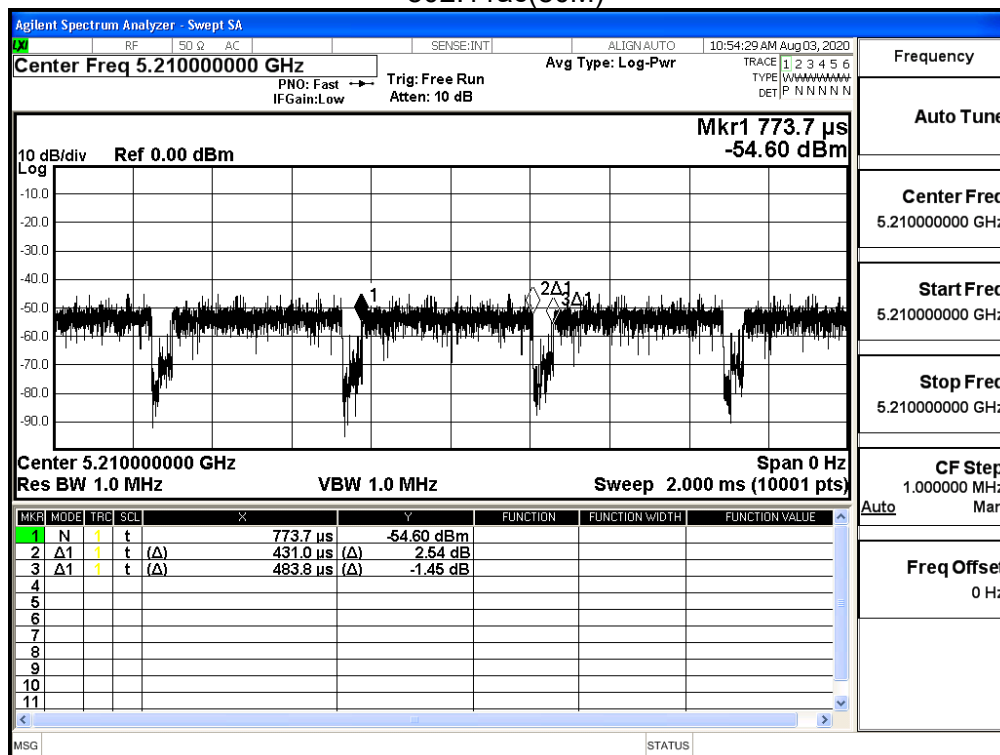
802.11ac(20M)



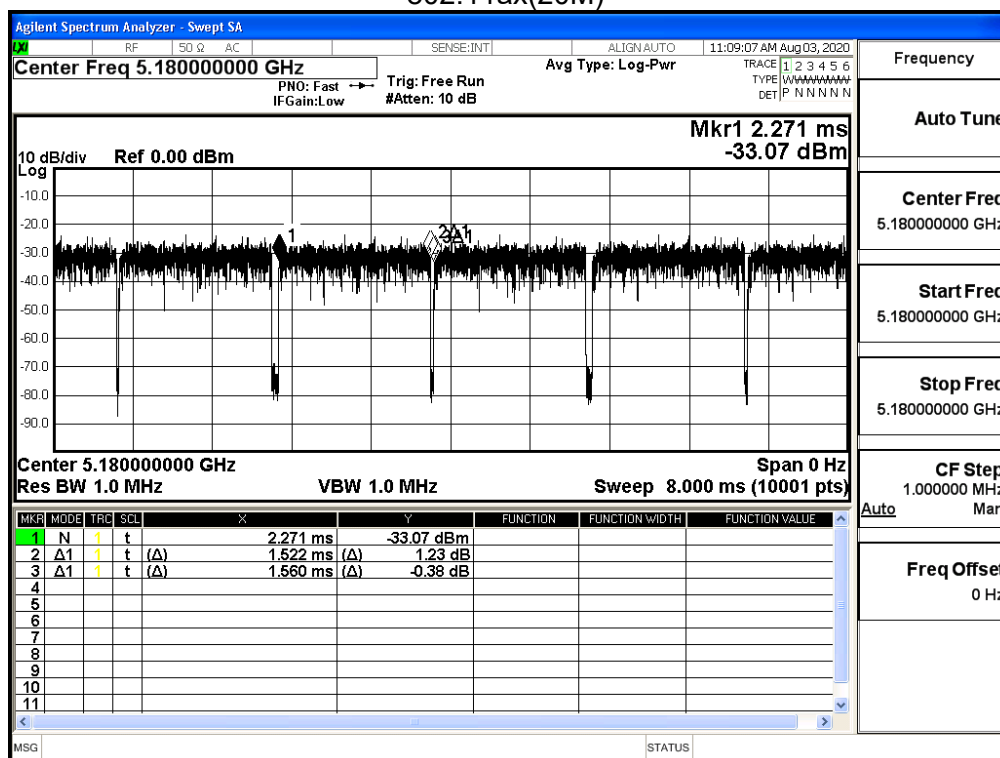
802.11ac(40M)



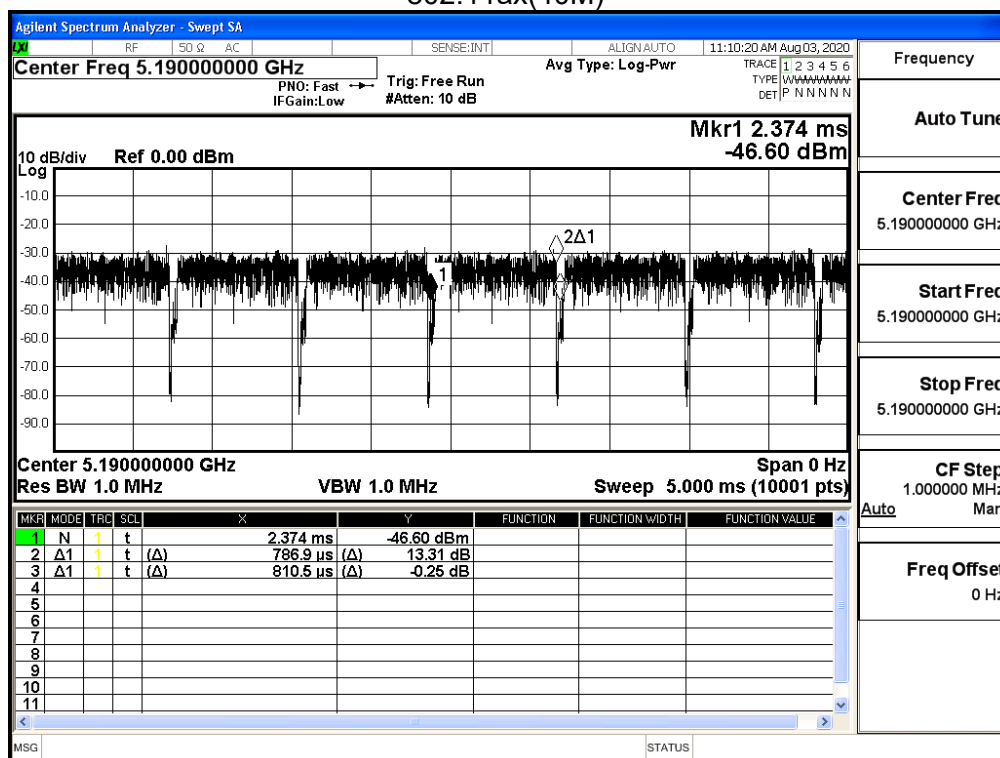
802.11ac(80M)



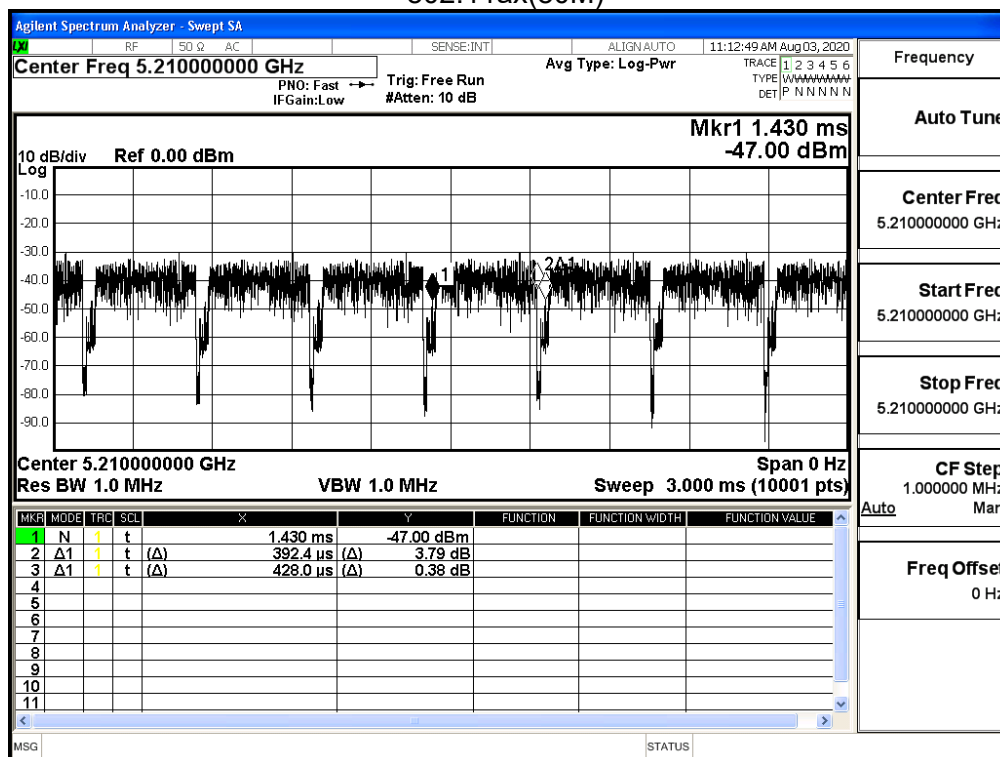
802.11ax(20M)



802.11ax(40M)



802.11ax(80M)

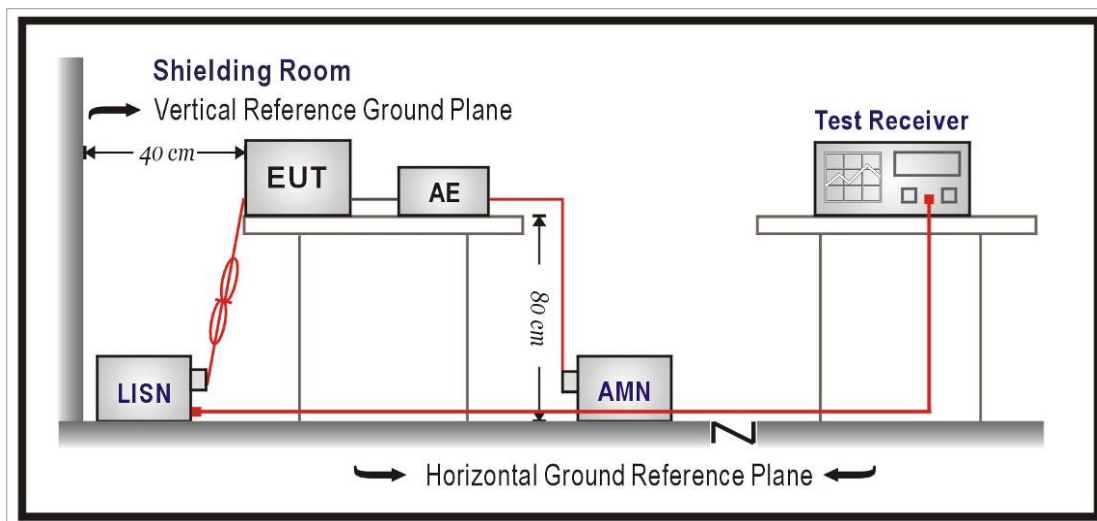


1.10. Uncertainty

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.

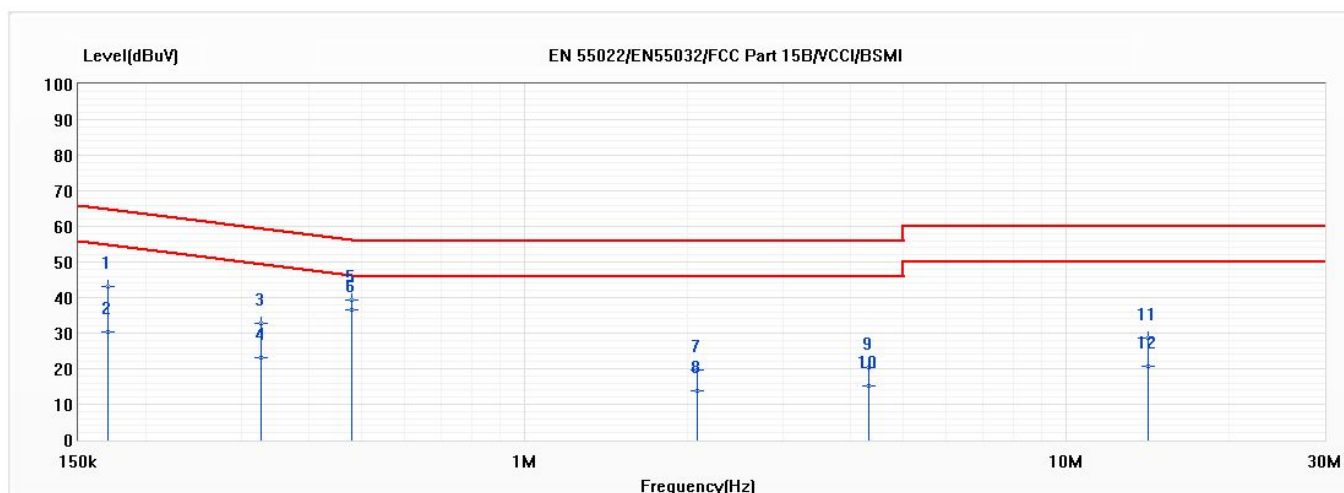
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.407: 2019

2.5. Test Result

Model No	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 1: SISO Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11a_5220MHz	Humidity (%RH)	57

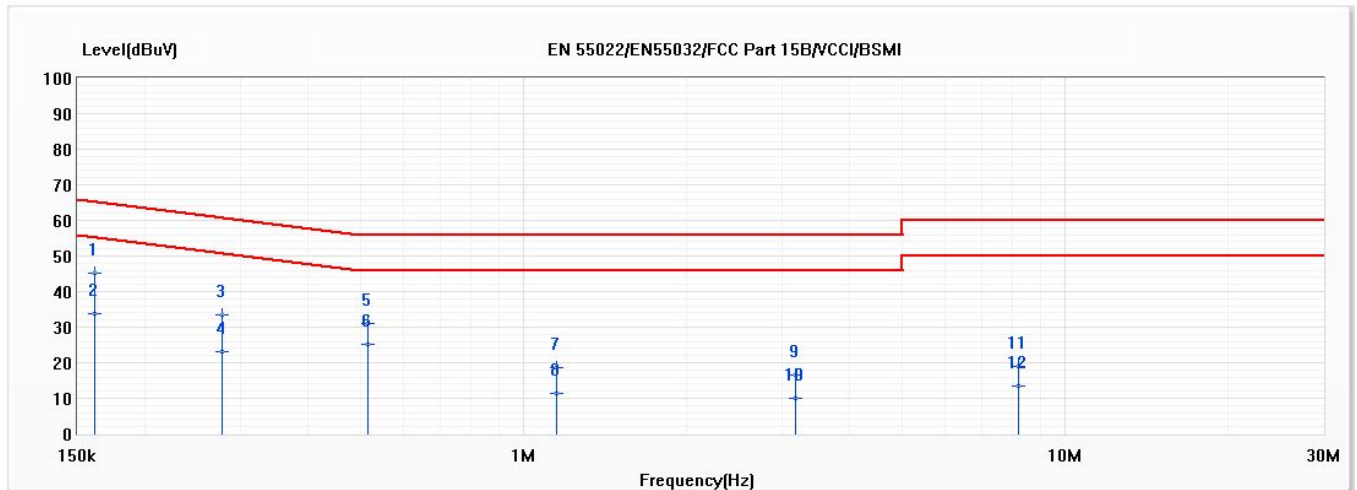


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.17	43.00	64.97	-21.97	33.35	9.65	QP
2	0.17	30.38	54.97	-24.58	20.74	9.65	AV
3	0.326	32.75	59.54	-26.79	23.08	9.67	QP
4	0.326	23.07	49.54	-26.47	13.40	9.67	AV
5	0.479	39.42	56.36	-16.93	29.73	9.69	QP
*6	0.479	36.43	46.36	-9.93	26.74	9.69	AV
7	2.081	19.62	56.00	-36.38	9.83	9.79	QP
8	2.081	13.82	46.00	-32.18	4.03	9.79	AV
9	4.329	20.39	56.00	-35.61	10.48	9.90	QP
10	4.329	15.08	46.00	-30.92	5.17	9.90	AV
11	14.189	28.79	60.00	-31.21	18.55	10.23	QP
12	14.189	20.80	50.00	-29.20	10.57	10.23	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 1: SISO Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11a_5220MHz	Humidity (%RH)	57

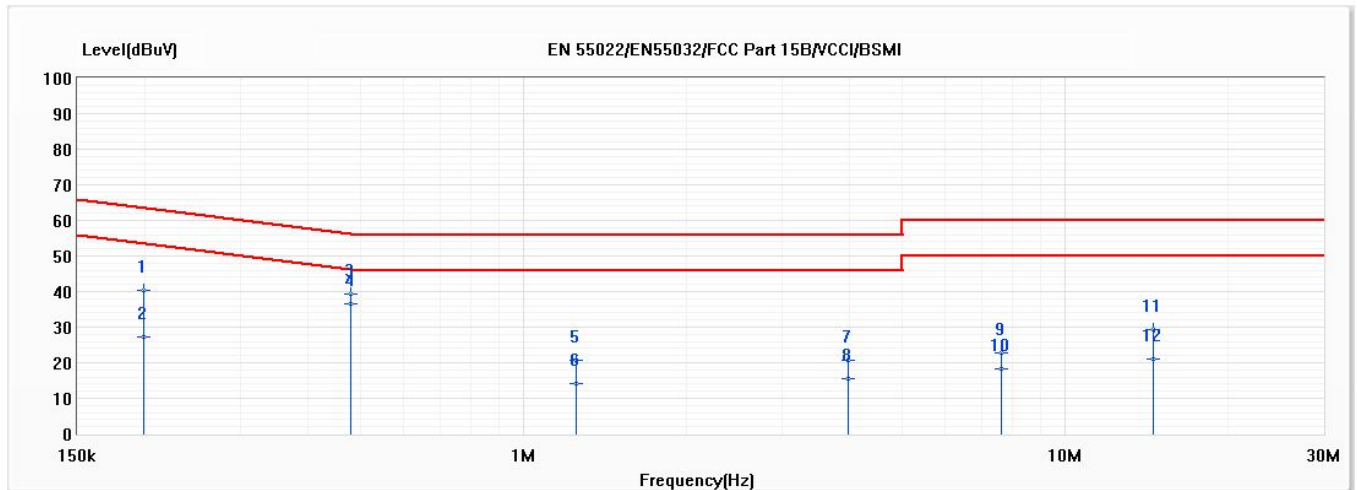


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.162	45.28	65.38	-20.10	35.64	9.64	QP
2	0.162	33.72	55.38	-21.66	24.08	9.64	AV
3	0.278	33.29	60.88	-27.59	23.64	9.64	QP
4	0.278	23.20	50.88	-27.68	13.55	9.64	AV
5	0.517	30.94	56.00	-25.06	21.26	9.68	QP
6	0.517	25.19	46.00	-20.81	15.51	9.68	AV
7	1.153	18.57	56.00	-37.43	8.84	9.73	QP
8	1.153	11.39	46.00	-34.61	1.66	9.73	AV
9	3.18	16.39	56.00	-39.61	6.56	9.84	QP
10	3.18	9.99	46.00	-36.01	0.15	9.84	AV
11	8.204	18.95	60.00	-41.05	8.88	10.07	QP
12	8.204	13.50	50.00	-36.50	3.43	10.07	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ac(20M)_5220MHz	Humidity (%RH)	57

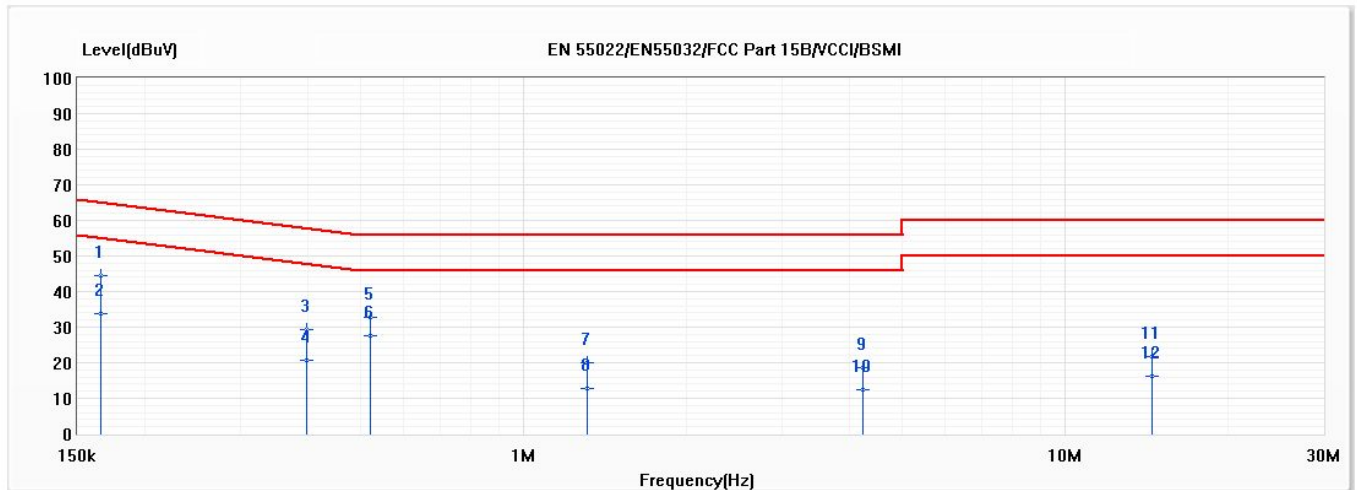


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.198	40.34	63.68	-23.34	30.69	9.65	QP
2	0.198	27.27	53.68	-26.41	17.62	9.65	AV
3	0.479	39.42	56.36	-16.94	29.73	9.69	QP
*4	0.479	36.46	46.36	-9.91	26.77	9.69	AV
5	1.249	20.77	56.00	-35.23	11.01	9.75	QP
6	1.249	14.14	46.00	-31.86	4.39	9.75	AV
7	3.983	20.57	56.00	-35.43	10.68	9.89	QP
8	3.983	15.41	46.00	-30.59	5.52	9.89	AV
9	7.639	22.90	60.00	-37.10	12.86	10.03	QP
10	7.639	18.15	50.00	-31.85	8.12	10.03	AV
11	14.568	29.17	60.00	-30.83	18.92	10.25	QP
12	14.568	20.93	50.00	-29.07	10.68	10.25	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ac(20M)_5220MHz	Humidity (%RH)	57

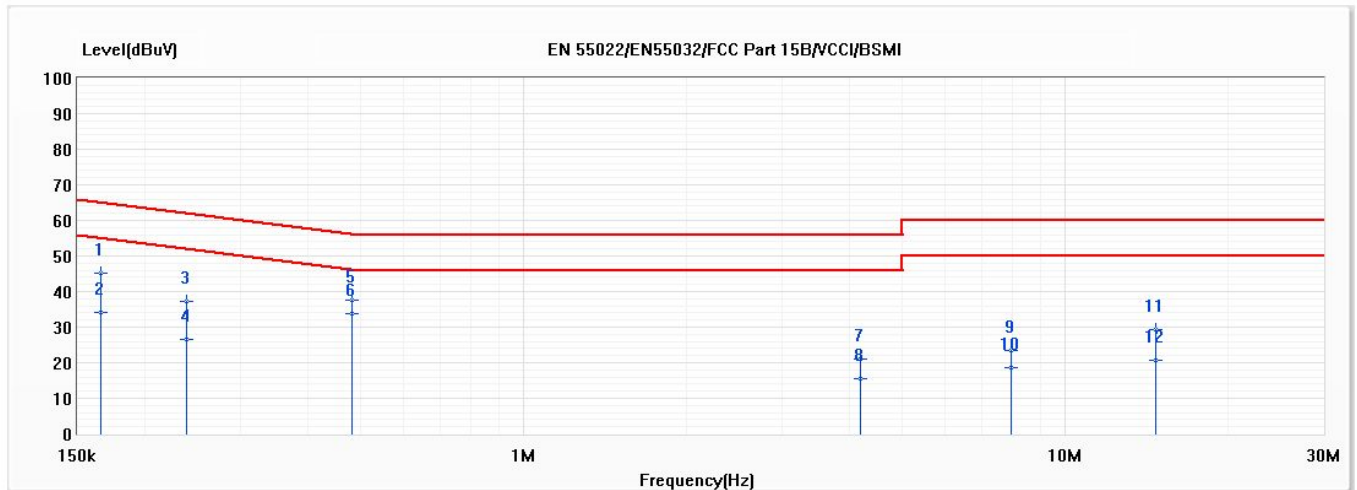


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.165	44.33	65.20	-20.87	34.69	9.64	QP
2	0.165	33.87	55.20	-21.33	24.23	9.64	AV
3	0.398	29.43	57.90	-28.47	19.76	9.67	QP
4	0.398	20.76	47.90	-27.14	11.09	9.67	AV
5	0.52	32.72	56.00	-23.28	23.04	9.68	QP
*6	0.52	27.42	46.00	-18.58	17.74	9.68	AV
7	1.312	19.89	56.00	-36.11	10.15	9.74	QP
8	1.312	12.86	46.00	-33.14	3.12	9.74	AV
9	4.232	18.61	56.00	-37.39	8.72	9.89	QP
10	4.232	12.39	46.00	-33.61	2.50	9.89	AV
11	14.451	21.66	60.00	-38.34	11.33	10.32	QP
12	14.451	16.32	50.00	-33.68	6.00	10.32	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ac(40M)_5190MHz	Humidity (%RH)	57

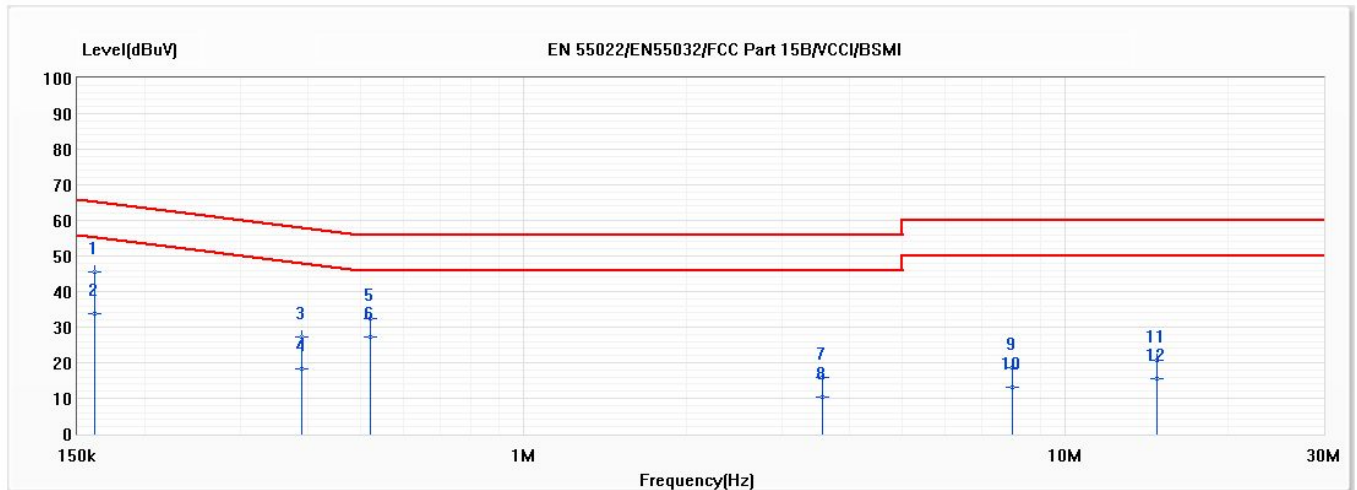


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.166	45.07	65.18	-20.11	35.42	9.65	QP
2	0.166	34.09	55.18	-21.09	24.44	9.65	AV
3	0.239	37.23	62.14	-24.91	27.58	9.65	QP
4	0.239	26.52	52.14	-25.62	16.87	9.65	AV
5	0.482	37.63	56.30	-18.67	27.94	9.69	QP
*6	0.482	33.77	46.30	-12.53	24.08	9.69	AV
7	4.177	20.98	56.00	-35.02	11.08	9.90	QP
8	4.177	15.39	46.00	-30.61	5.49	9.90	AV
9	7.94	23.36	60.00	-36.64	13.31	10.05	QP
10	7.94	18.46	50.00	-31.54	8.41	10.05	AV
11	14.697	29.17	60.00	-30.83	18.91	10.25	QP
12	14.697	20.80	50.00	-29.20	10.54	10.25	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ac(40M)_5190MHz	Humidity (%RH)	57

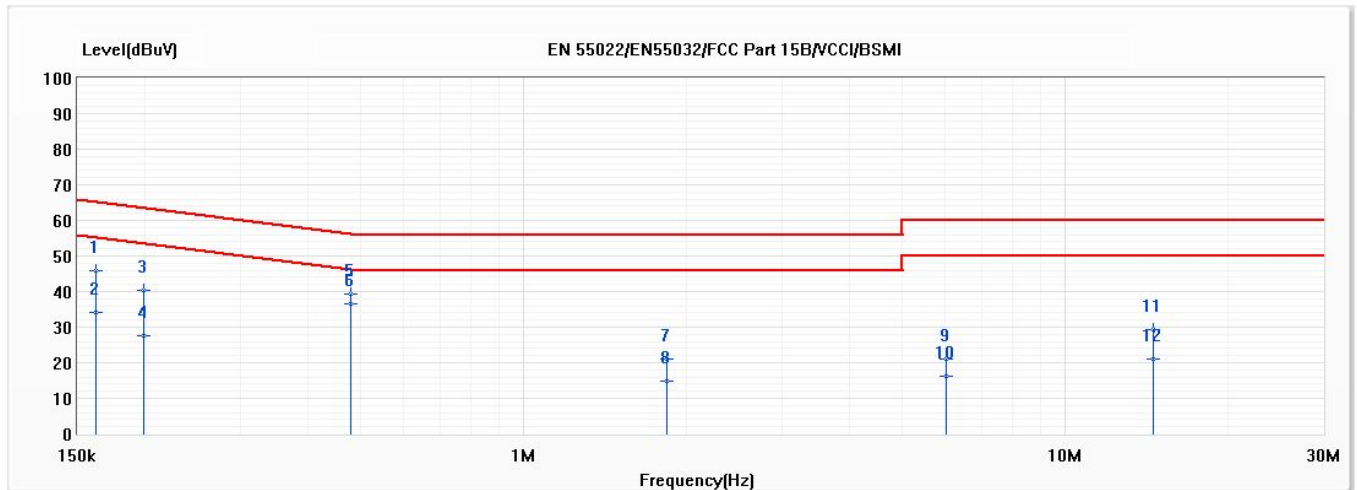


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.161	45.35	65.39	-20.04	35.71	9.64	QP
2	0.161	33.65	55.39	-21.74	24.01	9.64	AV
3	0.39	27.23	58.07	-30.83	17.57	9.67	QP
4	0.39	18.23	48.07	-29.83	8.57	9.67	AV
5	0.52	32.49	56.00	-23.51	22.81	9.68	QP
*6	0.52	27.37	46.00	-18.63	17.69	9.68	AV
7	3.56	15.91	56.00	-40.09	6.05	9.86	QP
8	3.56	10.37	46.00	-35.63	0.51	9.86	AV
9	7.987	18.70	60.00	-41.30	8.65	10.06	QP
10	7.987	13.17	50.00	-36.83	3.12	10.06	AV
11	14.809	20.71	60.00	-39.29	10.37	10.34	QP
12	14.809	15.59	50.00	-34.41	5.25	10.34	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ac(80M)_5210MHz	Humidity (%RH)	57

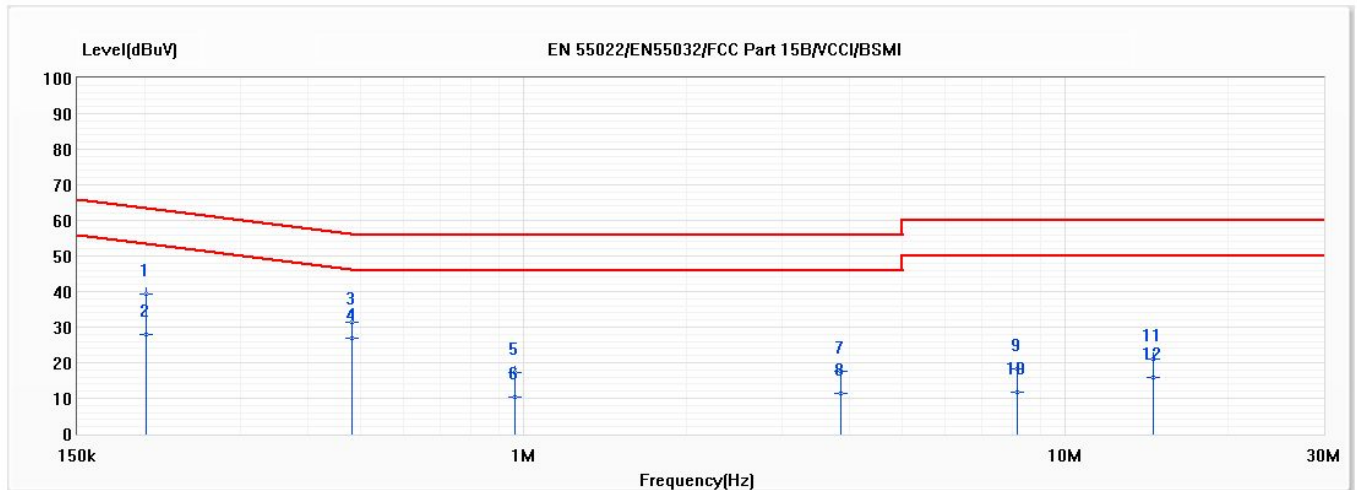


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	45.92	65.35	-19.43	36.27	9.65	QP
2	0.162	34.31	55.35	-21.04	24.66	9.65	AV
3	0.198	40.24	63.68	-23.44	30.59	9.65	QP
4	0.198	27.66	53.68	-26.02	18.02	9.65	AV
5	0.479	39.39	56.36	-16.97	29.70	9.69	QP
*6	0.479	36.41	46.36	-9.95	26.72	9.69	AV
7	1.837	20.96	56.00	-35.04	11.17	9.78	QP
8	1.837	14.92	46.00	-31.08	5.14	9.78	AV
9	6.035	21.01	60.00	-38.99	11.03	9.97	QP
10	6.035	16.33	50.00	-33.67	6.35	9.97	AV
11	14.521	29.28	60.00	-30.72	19.04	10.25	QP
12	14.521	20.94	50.00	-29.06	10.70	10.25	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ac(80M)_5210MHz	Humidity (%RH)	57

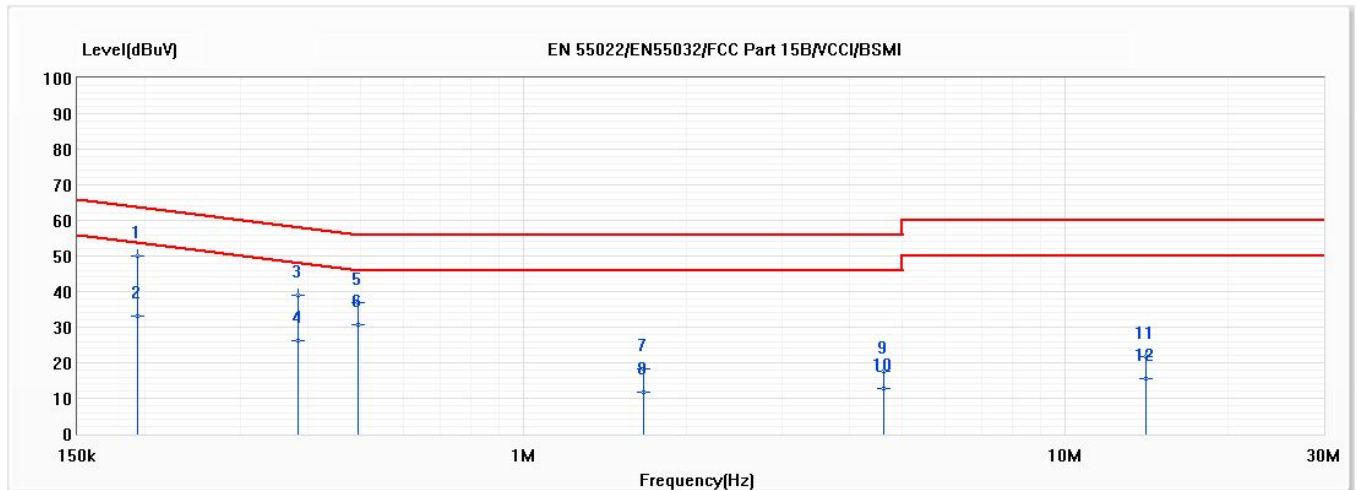


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.201	39.48	63.56	-24.08	29.84	9.64	QP
2	0.201	28.07	53.56	-25.49	18.43	9.64	AV
3	0.483	31.35	56.29	-24.95	21.67	9.68	QP
*4	0.483	26.89	46.29	-19.40	17.22	9.68	AV
5	0.963	17.17	56.00	-38.83	7.46	9.72	QP
6	0.963	10.18	46.00	-35.82	0.46	9.72	AV
7	3.852	17.49	56.00	-38.51	7.62	9.87	QP
8	3.852	11.52	46.00	-34.48	1.65	9.87	AV
9	8.144	18.39	60.00	-41.61	8.33	10.07	QP
10	8.144	11.74	50.00	-38.26	1.68	10.07	AV
11	14.529	21.14	60.00	-38.86	10.82	10.33	QP
12	14.529	15.81	50.00	-34.19	5.48	10.33	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ax(20M)_5220MHz	Humidity (%RH)	57

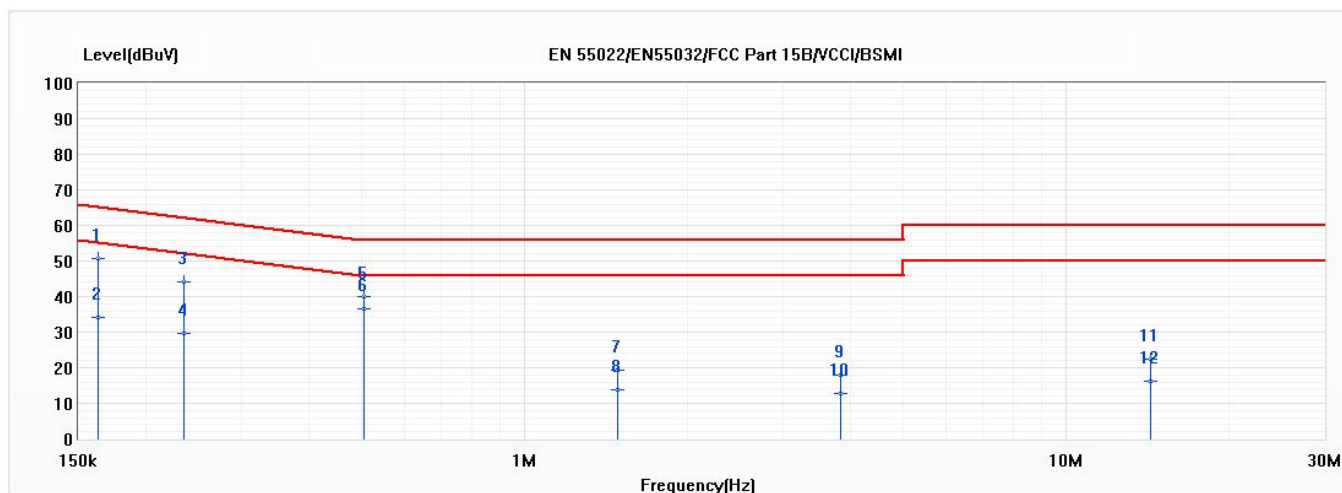


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.194	50.14	63.88	-13.74	40.49	9.64	QP
2	0.194	33.07	53.88	-20.81	23.42	9.64	AV
3	0.383	38.82	58.22	-19.40	29.14	9.68	QP
4	0.383	26.36	48.22	-21.86	16.68	9.68	AV
5	0.495	36.88	56.09	-19.21	27.19	9.69	QP
6	0.495	30.74	46.09	-15.35	21.05	9.69	AV
7	1.664	18.40	56.00	-37.60	8.63	9.77	QP
8	1.664	11.63	46.00	-34.37	1.85	9.77	AV
9	4.621	17.56	56.00	-38.44	7.64	9.92	QP
10	4.621	12.92	46.00	-33.08	3.00	9.92	AV
11	14.089	21.86	60.00	-38.14	11.63	10.23	QP
12	14.089	15.52	50.00	-34.48	5.29	10.23	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ax(20M)_5220MHz	Humidity (%RH)	57

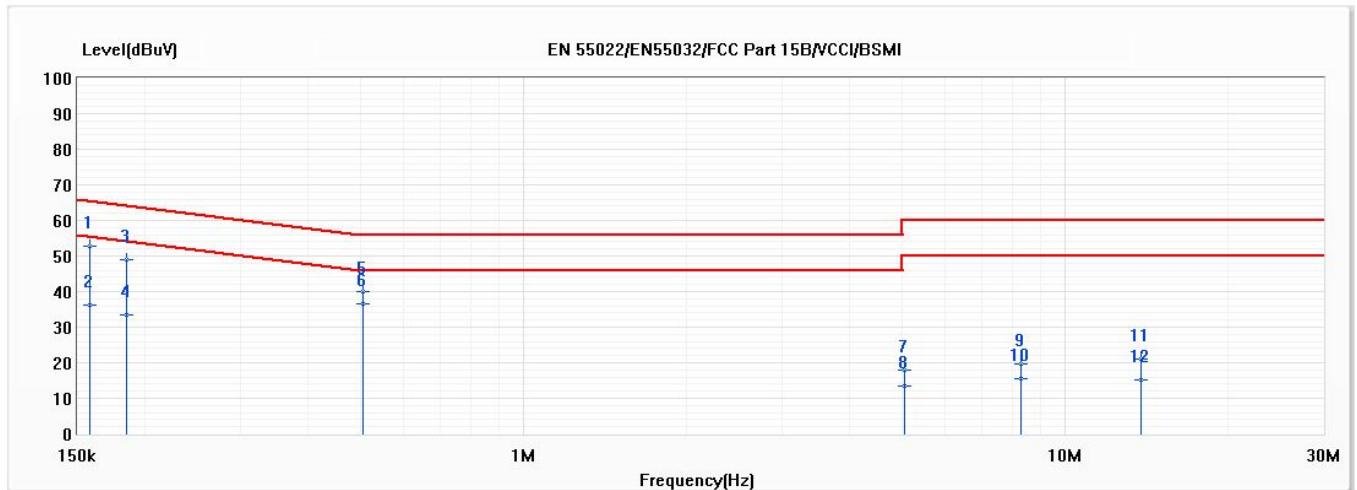


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.163	50.62	65.32	-14.70	40.98	9.64	QP
2	0.163	34.02	55.32	-21.30	24.38	9.64	AV
3	0.234	44.18	62.30	-18.12	34.54	9.64	QP
4	0.234	29.54	52.30	-22.76	19.90	9.64	AV
5	0.505	39.96	56.00	-16.04	30.28	9.68	QP
*6	0.505	36.53	46.00	-9.47	26.85	9.68	AV
7	1.481	19.29	56.00	-36.71	9.54	9.74	QP
8	1.481	13.72	46.00	-32.28	3.97	9.74	AV
9	3.839	17.93	56.00	-38.07	8.06	9.87	QP
10	3.839	12.85	46.00	-33.15	2.98	9.87	AV
11	14.349	22.47	60.00	-37.53	12.15	10.32	QP
12	14.349	16.08	50.00	-33.92	5.77	10.32	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ax(40M)_5190MHz	Humidity (%RH)	57

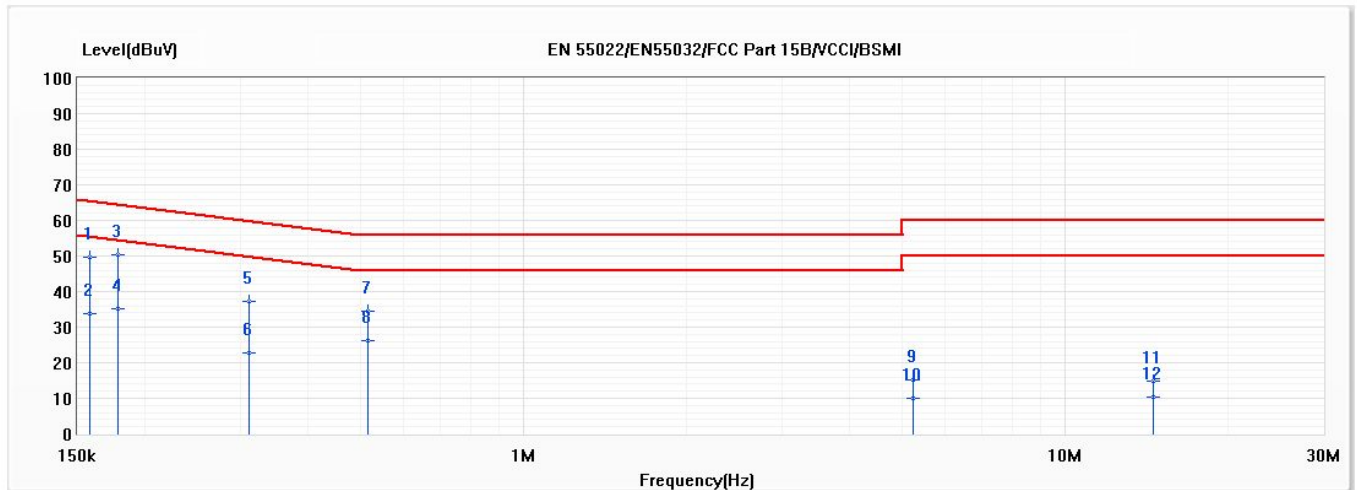


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	52.66	65.56	-12.90	43.01	9.65	QP
2	0.158	36.32	55.56	-19.25	26.67	9.65	AV
3	0.185	48.85	64.25	-15.40	39.20	9.64	QP
4	0.185	33.32	54.25	-20.93	23.67	9.64	AV
5	0.505	39.98	56.00	-16.02	30.29	9.69	QP
*6	0.505	36.40	46.00	-9.60	26.71	9.69	AV
7	5.041	17.86	60.00	-42.14	7.92	9.94	QP
8	5.041	13.34	50.00	-36.66	3.40	9.94	AV
9	8.276	19.76	60.00	-40.24	9.71	10.06	QP
10	8.276	15.67	50.00	-34.33	5.61	10.06	AV
11	13.8	20.99	60.00	-39.01	10.76	10.23	QP
12	13.8	15.05	50.00	-34.95	4.83	10.23	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ax(40M)_5190MHz	Humidity (%RH)	57

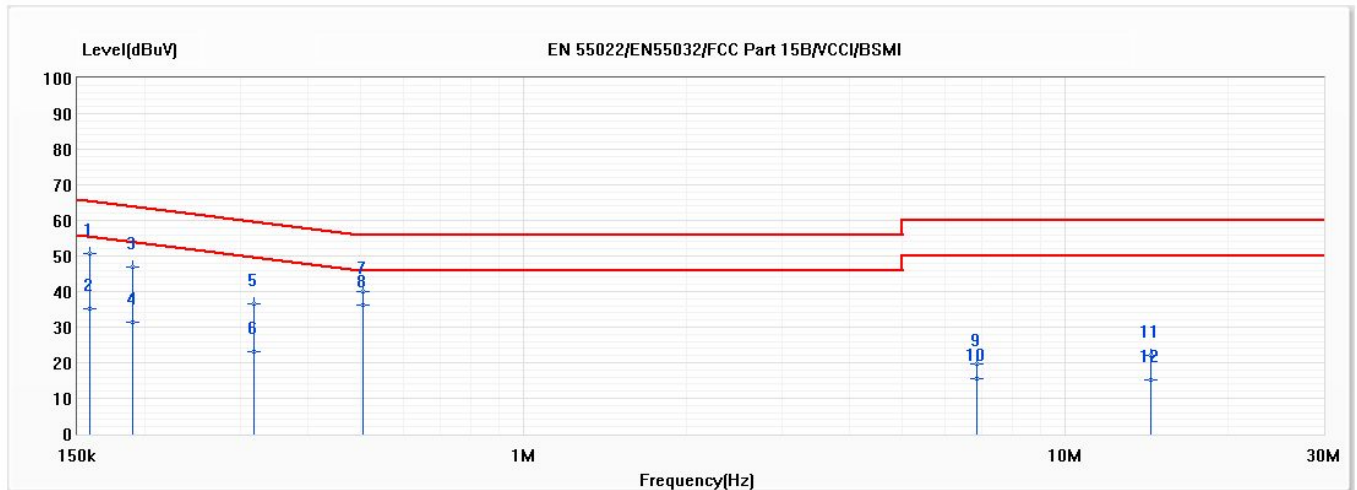


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	49.77	65.57	-15.80	40.13	9.64	QP
2	0.158	33.95	55.57	-21.62	24.32	9.64	AV
*3	0.179	50.32	64.56	-14.23	40.69	9.63	QP
4	0.179	35.19	54.56	-19.36	25.55	9.63	AV
5	0.311	37.11	59.96	-22.84	27.46	9.66	QP
6	0.311	22.85	49.96	-27.11	13.19	9.66	AV
7	0.517	34.53	56.00	-21.47	24.85	9.68	QP
8	0.517	26.35	46.00	-19.65	16.67	9.68	AV
9	5.244	15.09	60.00	-44.91	5.14	9.95	QP
10	5.244	9.98	50.00	-40.02	0.04	9.95	AV
11	14.517	14.75	60.00	-45.25	4.42	10.32	QP
12	14.517	10.50	50.00	-39.50	0.18	10.32	AV

emark:

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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	L	Temperature (°C)	25
Test Condition	CDD_802.11ax(80M)_5210MHz	Humidity (%RH)	57

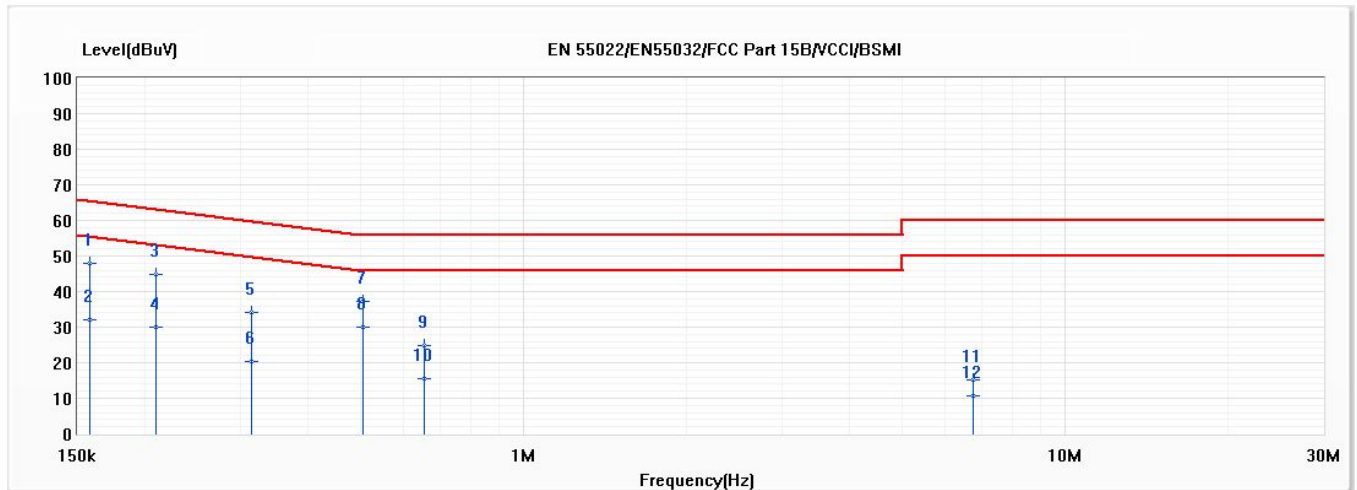


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	50.59	65.57	-14.98	40.95	9.65	QP
2	0.158	35.24	55.57	-20.33	25.59	9.65	AV
3	0.19	46.92	64.04	-17.12	37.27	9.64	QP
4	0.19	31.35	54.04	-22.69	21.70	9.64	AV
5	0.318	36.41	59.76	-23.35	26.74	9.67	QP
6	0.318	23.09	49.76	-26.67	13.43	9.67	AV
7	0.505	39.87	56.00	-16.13	30.18	9.69	QP
*8	0.505	36.06	46.00	-9.94	26.37	9.69	AV
9	6.857	19.63	60.00	-40.37	9.63	10.00	QP
10	6.857	15.43	50.00	-34.57	5.43	10.00	AV
11	14.384	21.97	60.00	-38.03	11.73	10.25	QP
12	14.384	15.24	50.00	-34.76	5.00	10.25	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	D2260G	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/10/5
Test Mode	Mode 2: CDD Mode	Engineer	Scott Lin
Phase	N	Temperature (°C)	25
Test Condition	CDD_802.11ax(80M)_5210MHz	Humidity (%RH)	57



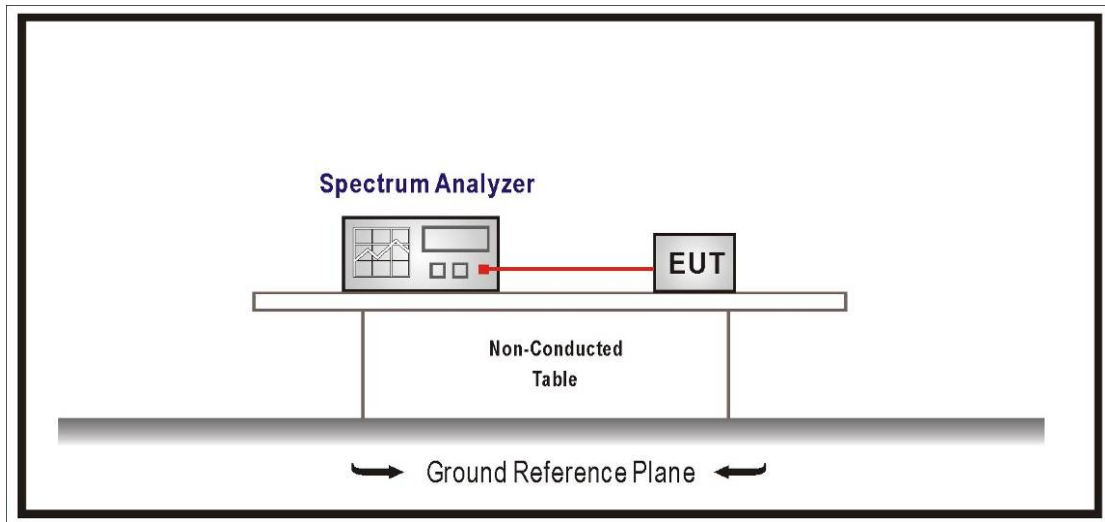
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	47.93	65.56	-17.63	38.29	9.64	QP
2	0.158	32.17	55.56	-23.39	22.53	9.64	AV
3	0.209	44.89	63.24	-18.35	35.25	9.64	QP
4	0.209	29.92	53.24	-23.32	20.28	9.64	AV
5	0.315	34.10	59.84	-25.74	24.45	9.66	QP
6	0.315	20.30	49.84	-29.54	10.64	9.66	AV
7	0.504	37.33	56.00	-18.67	27.65	9.68	QP
*8	0.504	30.15	46.00	-15.85	20.47	9.68	AV
9	0.656	24.75	56.00	-31.25	15.06	9.69	QP
10	0.656	15.43	46.00	-30.57	5.74	9.69	AV
11	6.748	15.18	60.00	-44.82	5.17	10.01	QP
12	6.748	10.85	50.00	-39.15	0.84	10.01	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 :

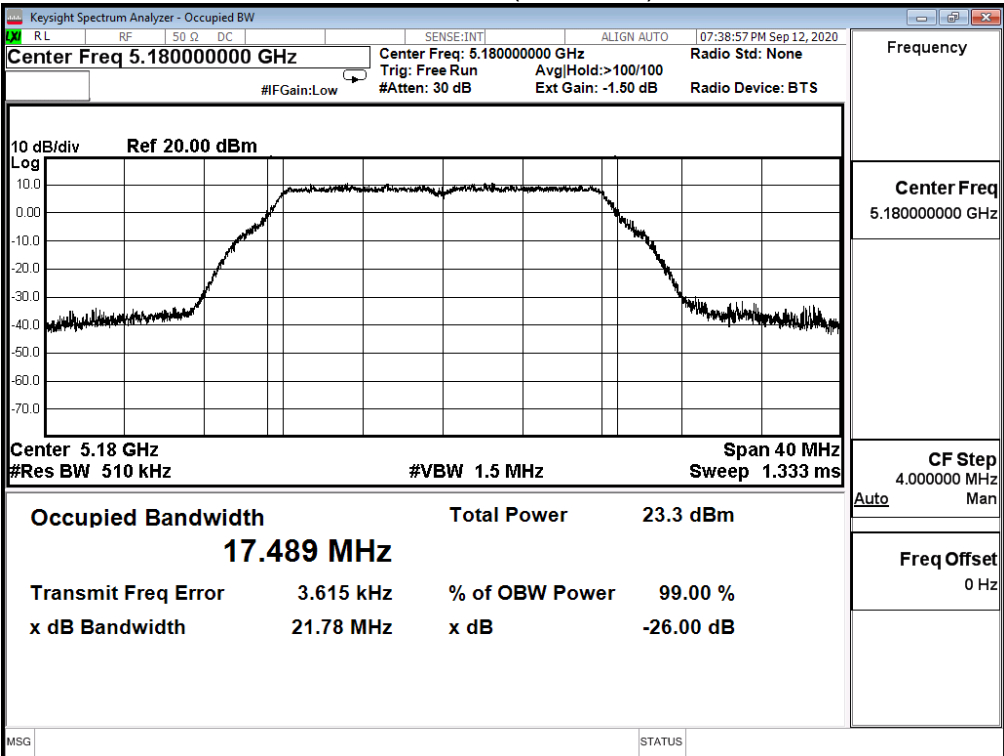
Set RBW = 100KHz, VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

3.4. Test Result

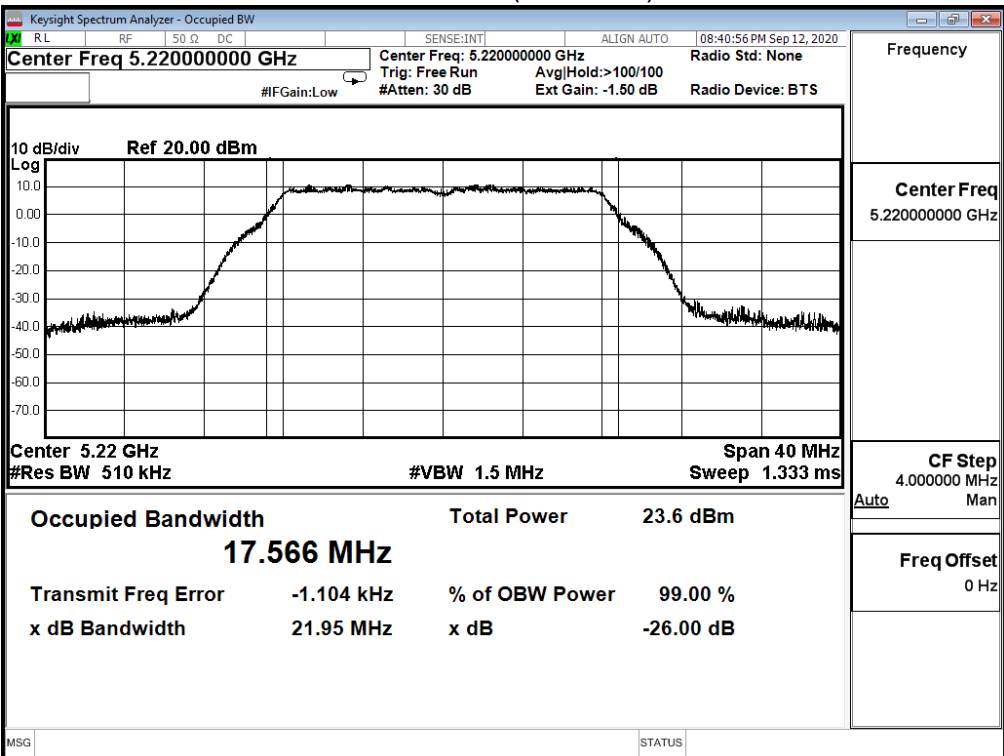
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/09/12~2020/10/14	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11a (ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	17.489	21.780	--	Pass
44	5220	17.566	21.950	--	Pass
48	5240	17.422	21.680	--	Pass
149	5745	17.404	N/A	--	Pass
157	5785	17.327		--	Pass
165	5825	17.550		--	Pass

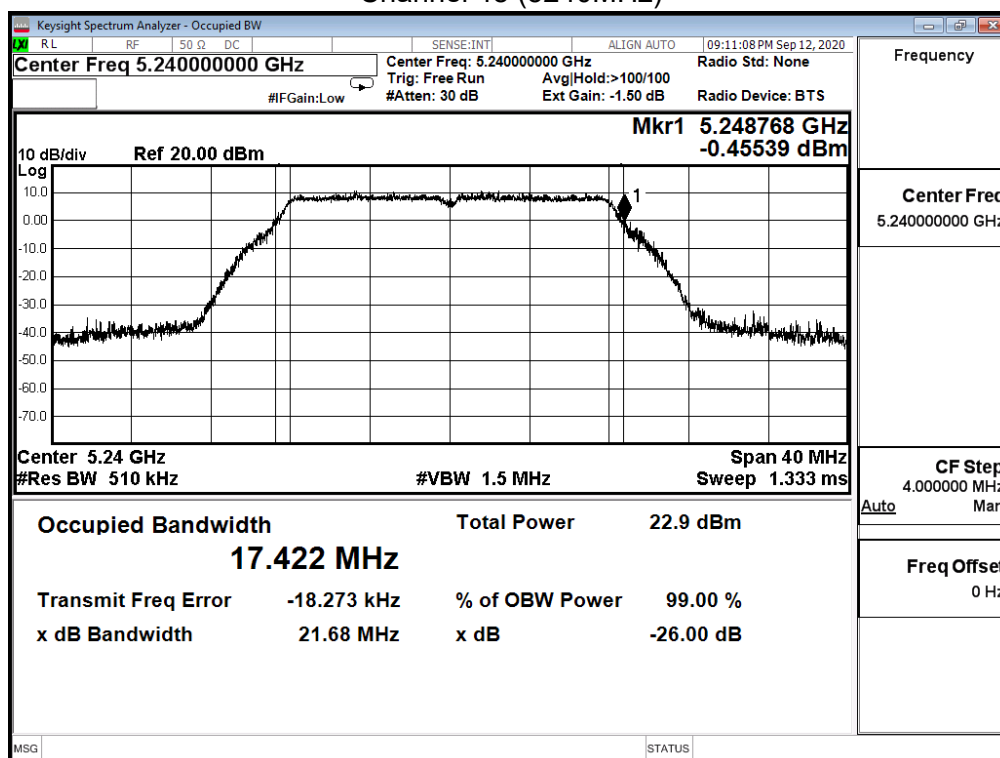
Channel 36 (5180MHz)



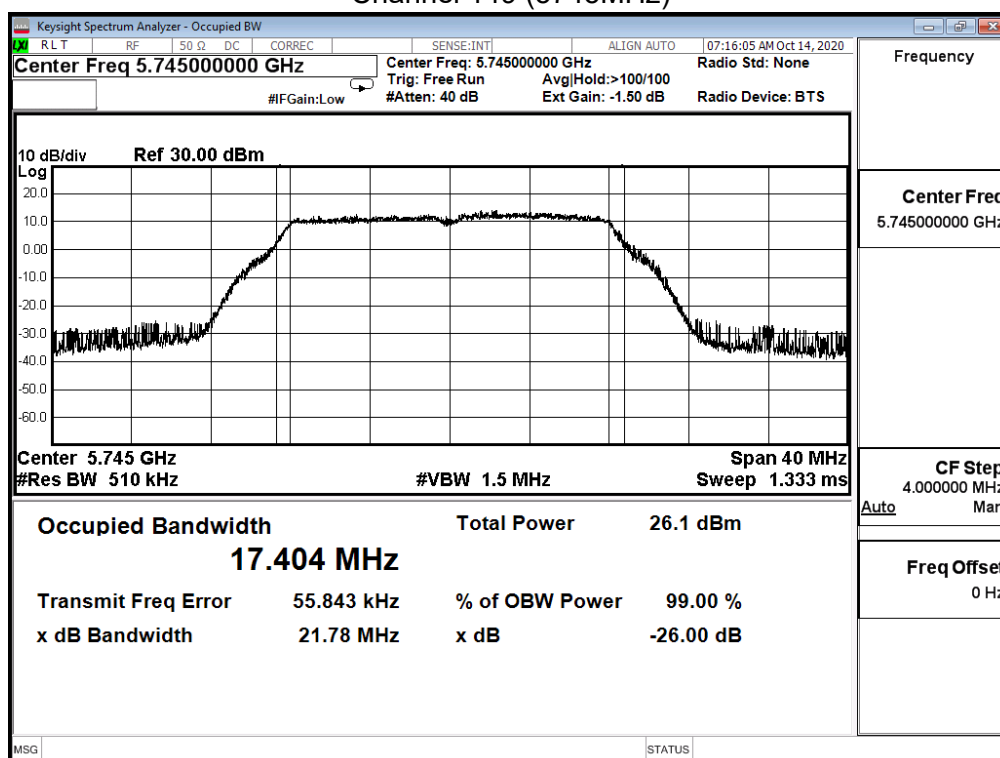
Channel 44 (5220MHz)



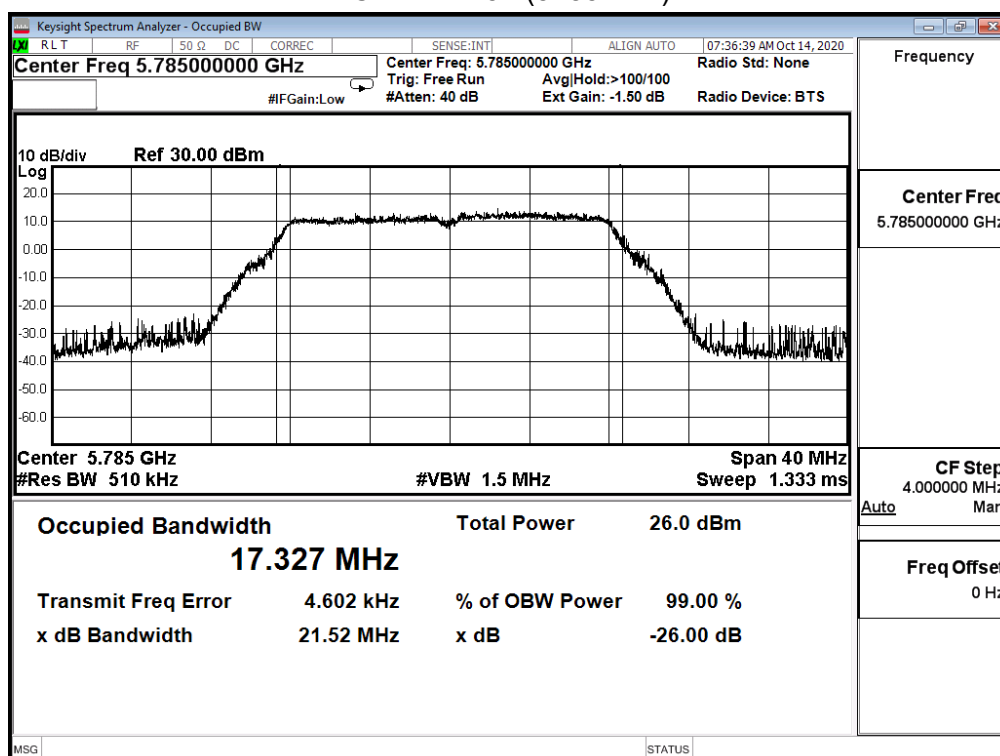
Channel 48 (5240MHz)



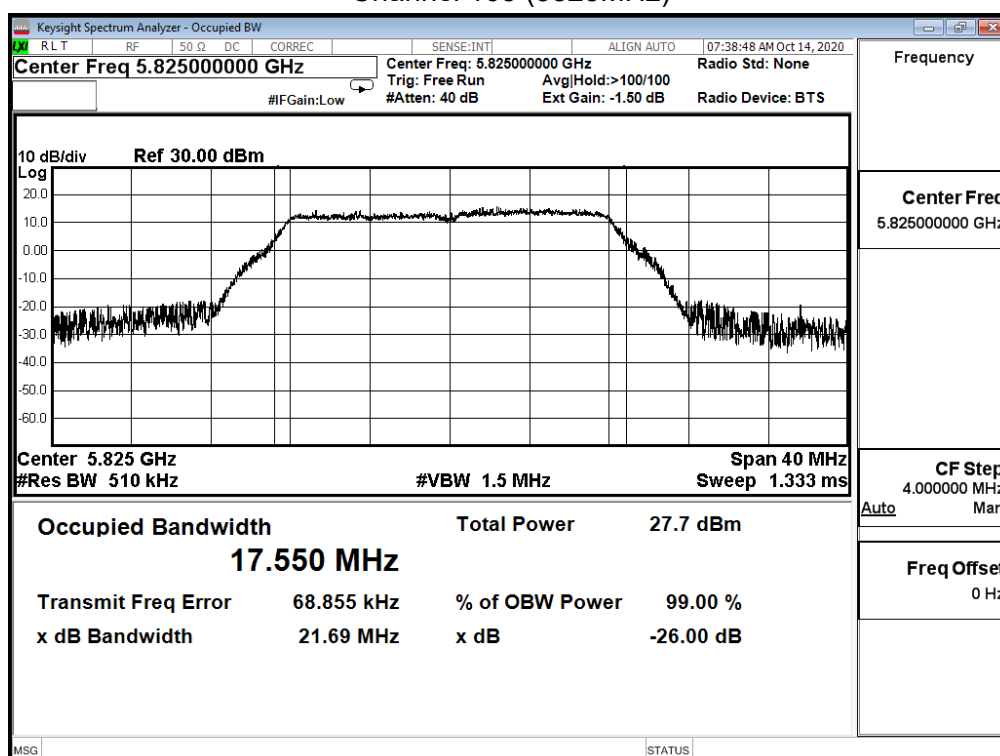
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

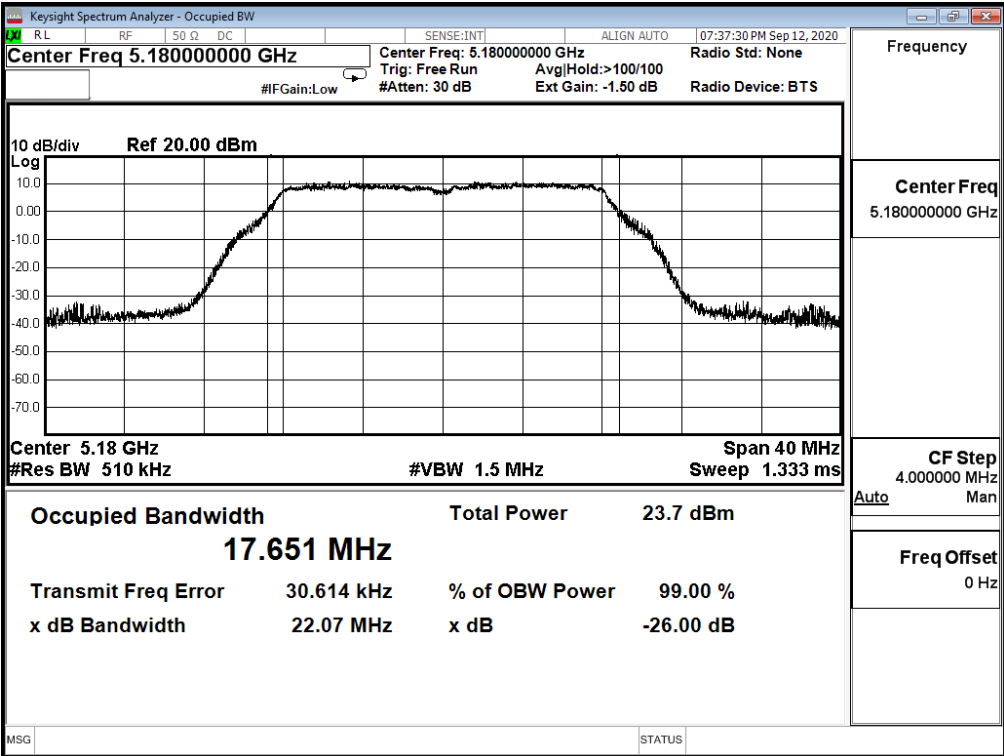


Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

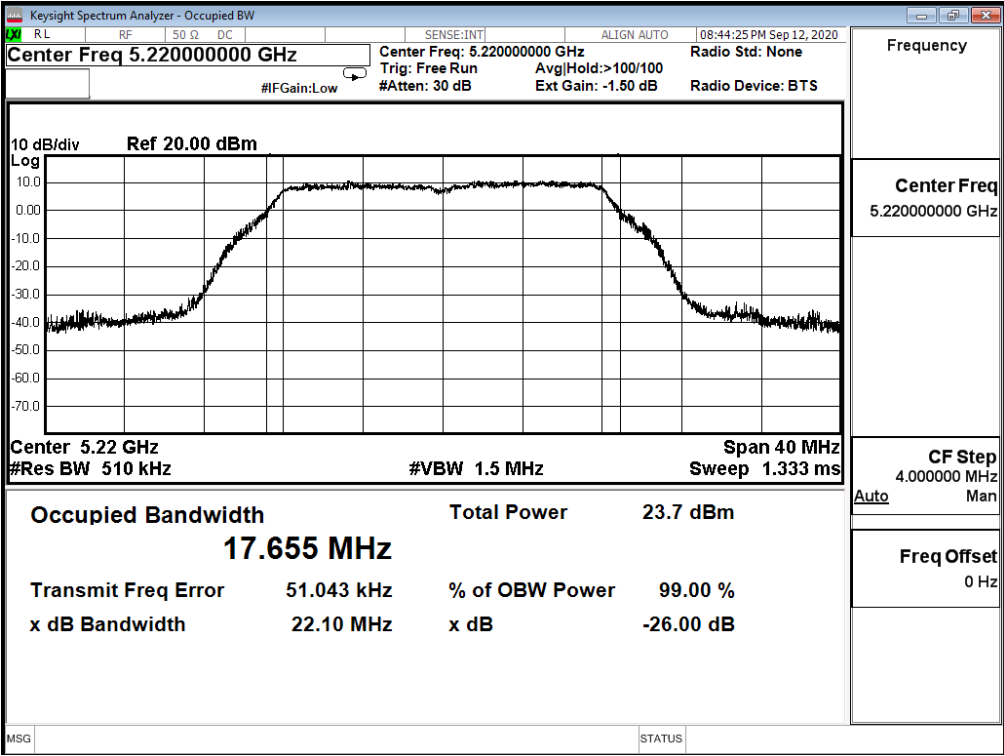
IEEE 802.11a (ANT 3)

Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	17.651	22.070	--	Pass
44	5220	17.655	22.100	--	Pass
48	5240	17.541	21.990	--	Pass
149	5745	17.466	N/A	--	Pass
157	5785	17.521		--	Pass
165	5825	17.577		--	Pass

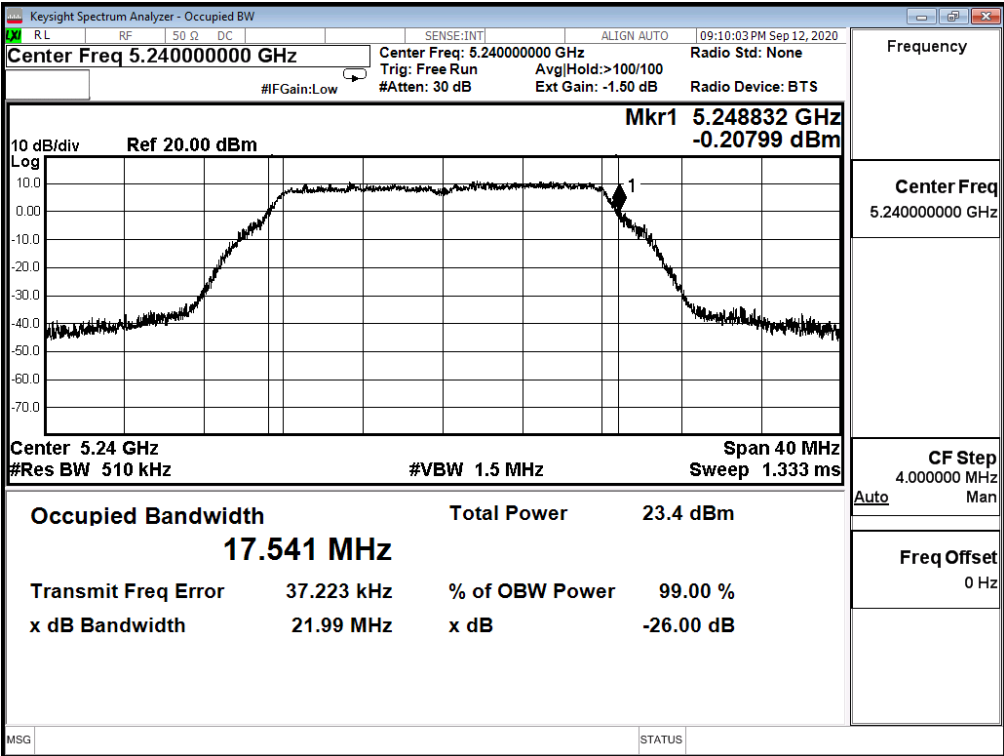
Channel 36 (5180MHz)



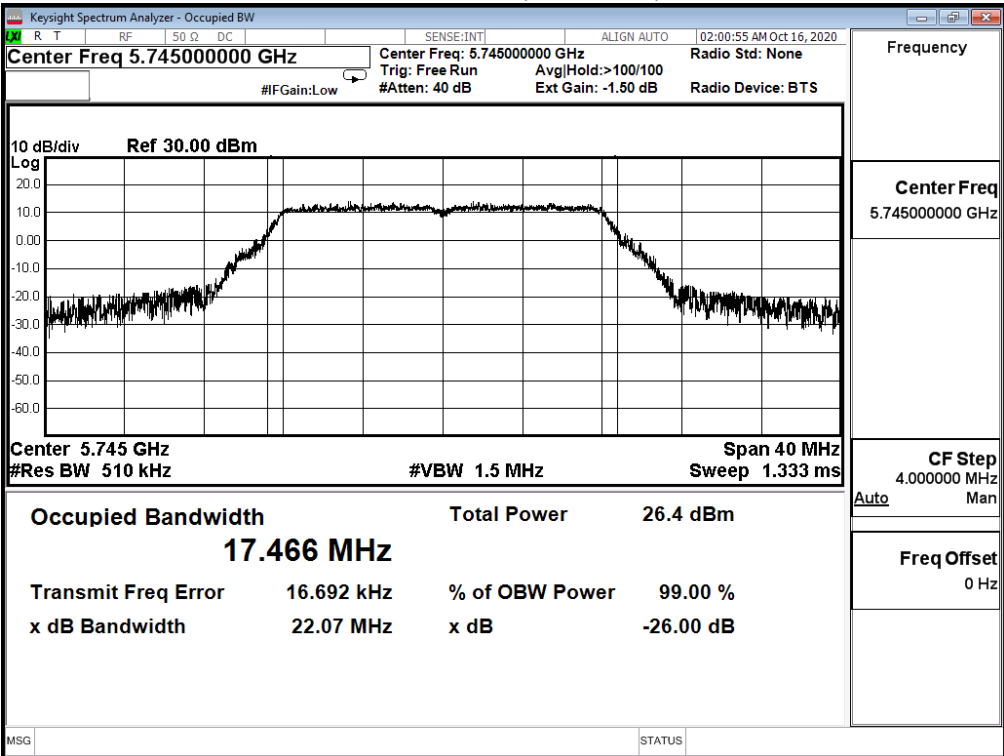
Channel 44 (5220MHz)



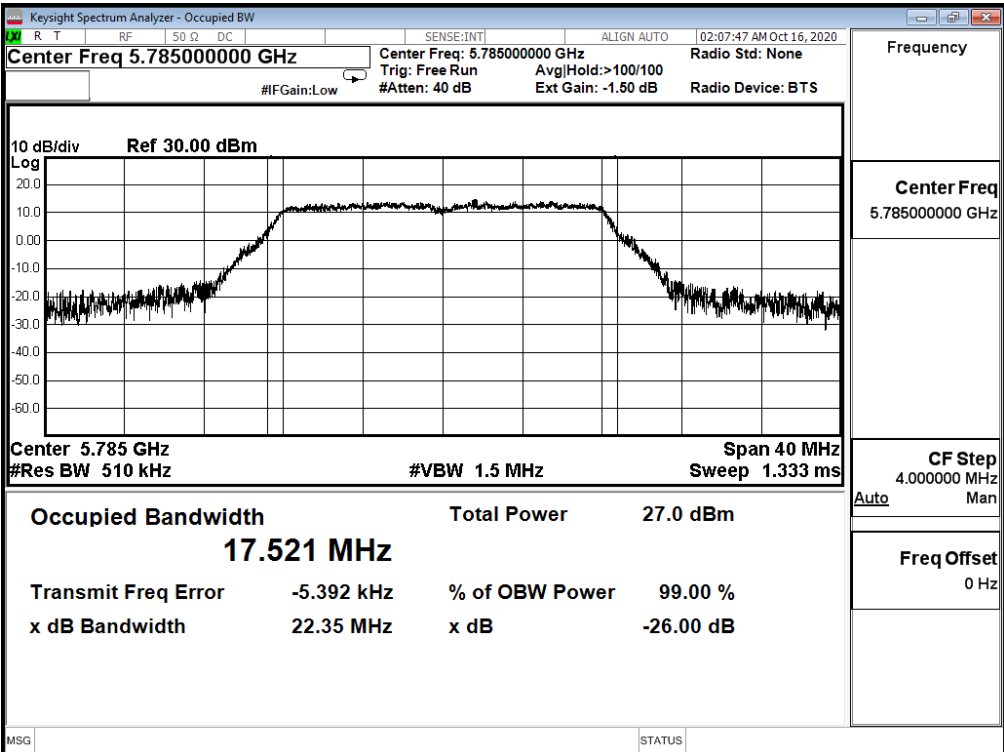
Channel 48 (5240MHz)



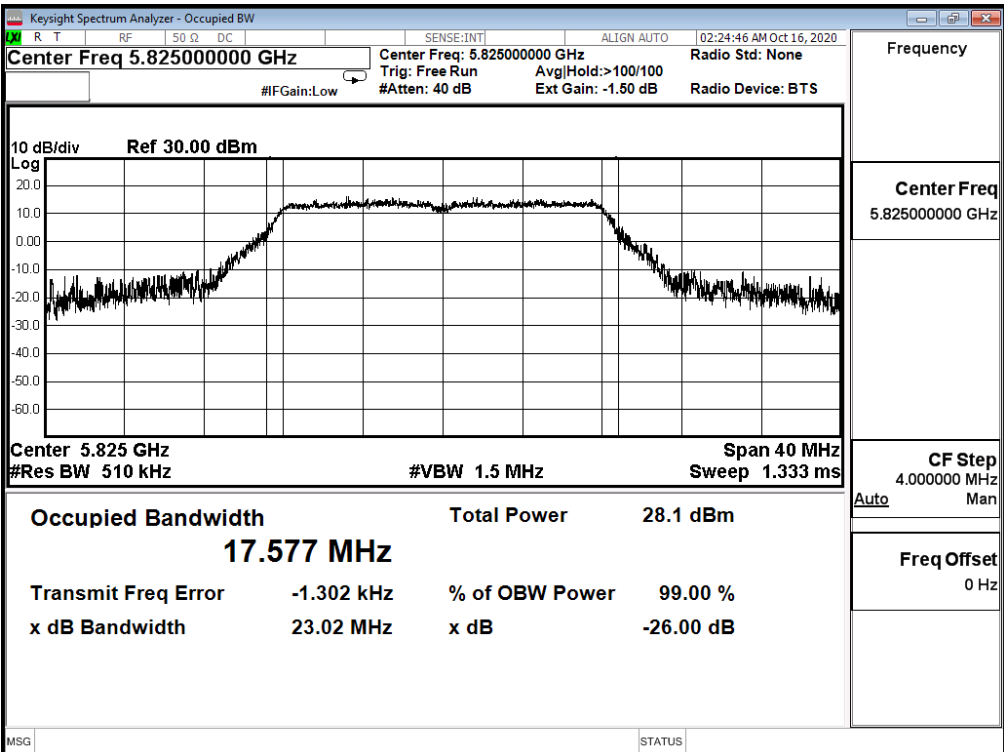
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

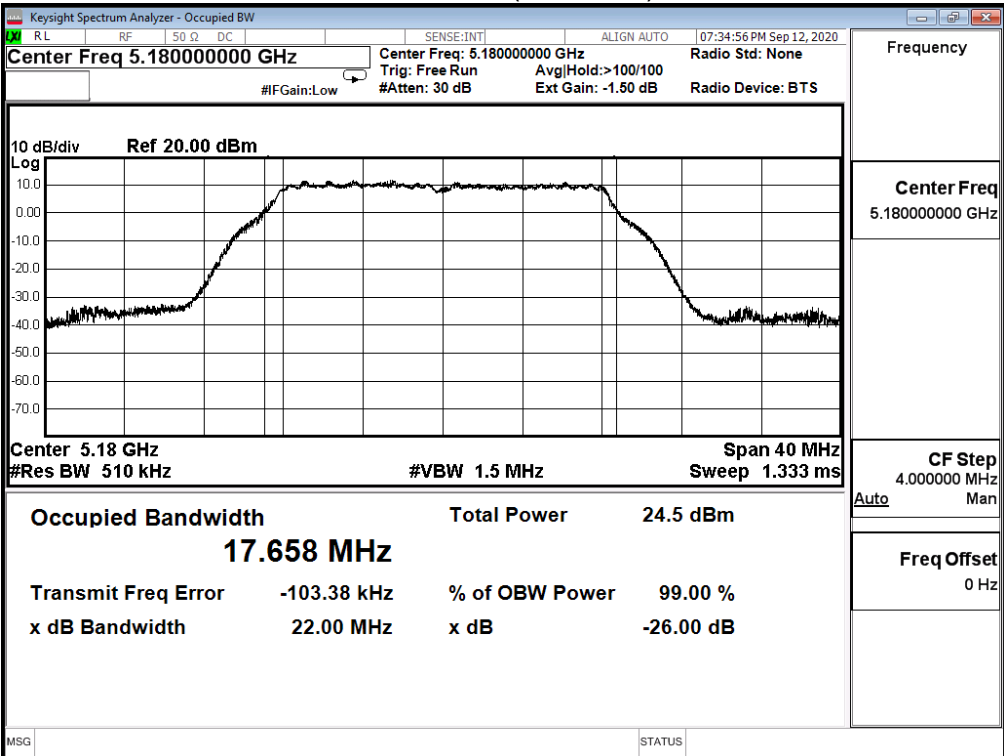


Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

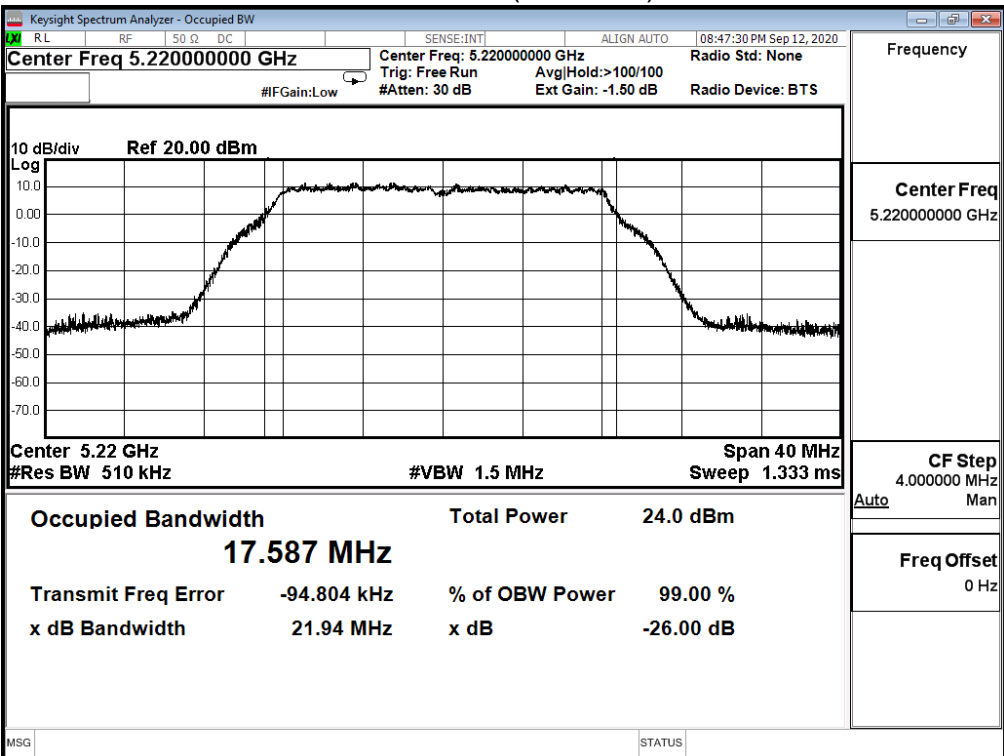
IEEE 802.11a (ANT 4)

Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	17.658	22.000	--	Pass
44	5220	17.587	21.940	--	Pass
48	5240	17.563	21.970	--	Pass
149	5745	17.069	N/A	--	Pass
157	5785	17.004		--	Pass
165	5825	17.025		--	Pass

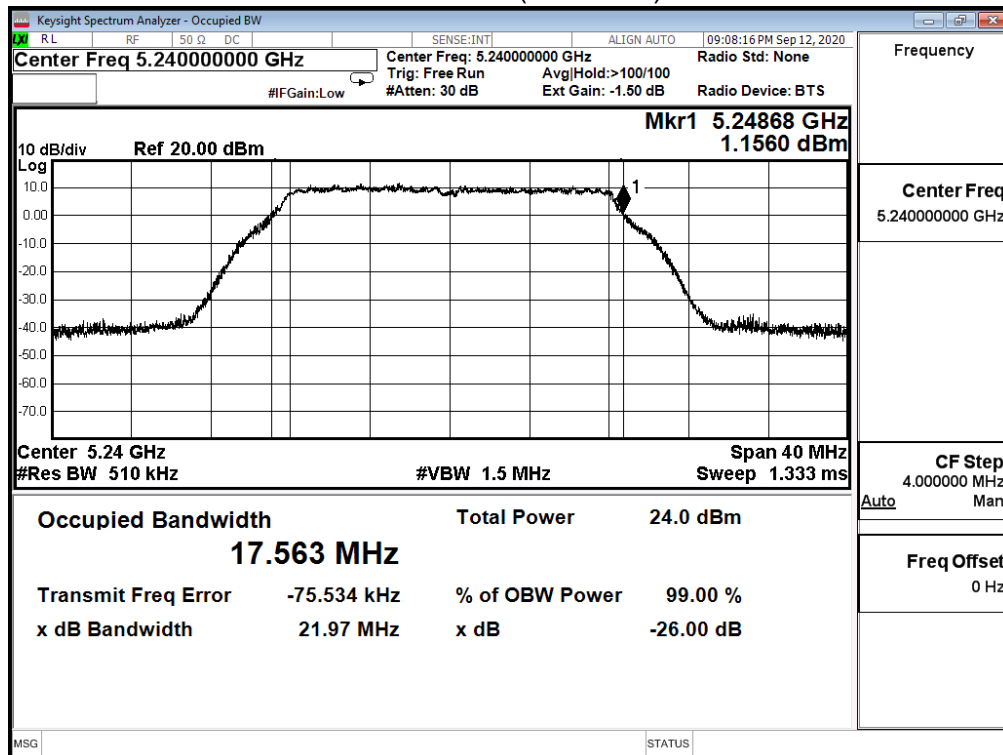
Channel 36 (5180MHz)



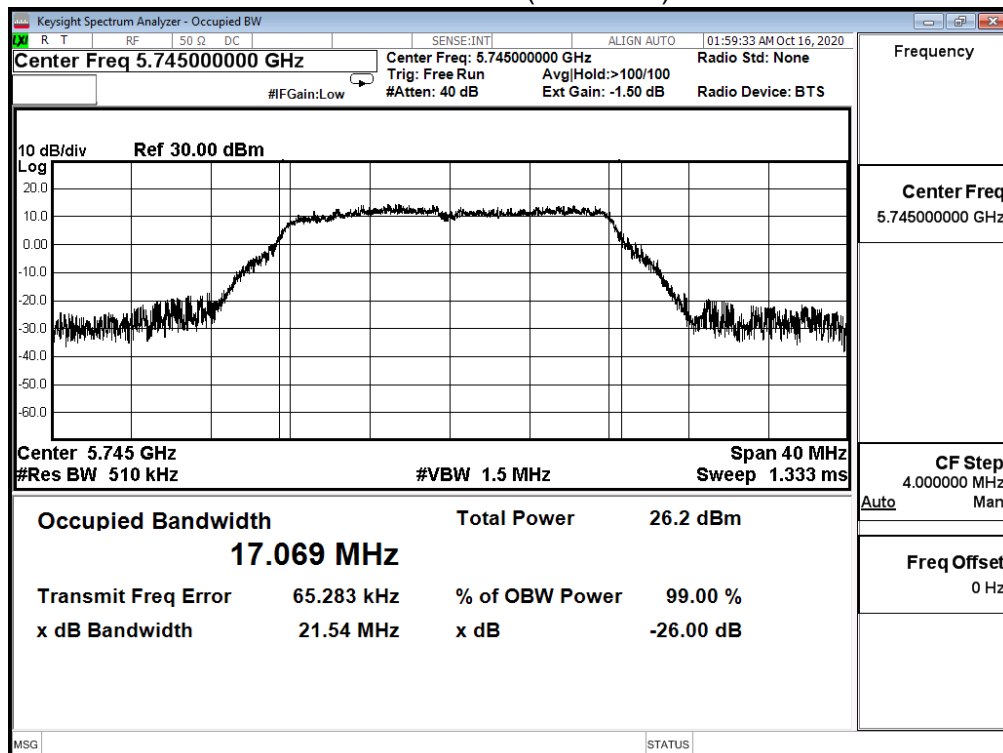
Channel 44 (5220MHz)



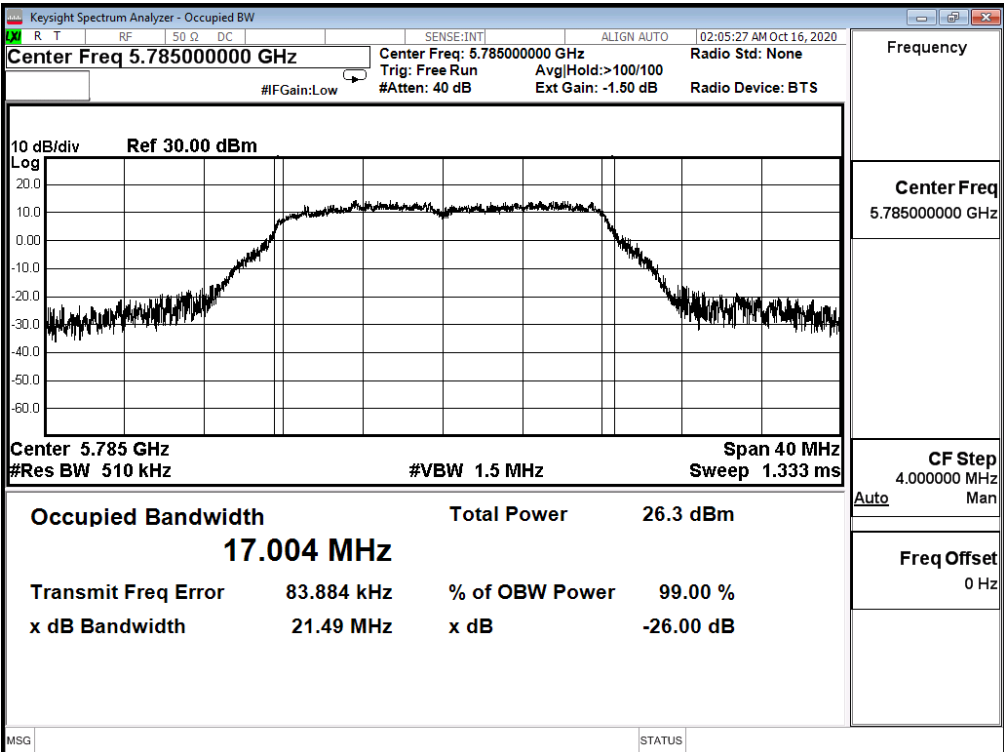
Channel 48 (5240MHz)



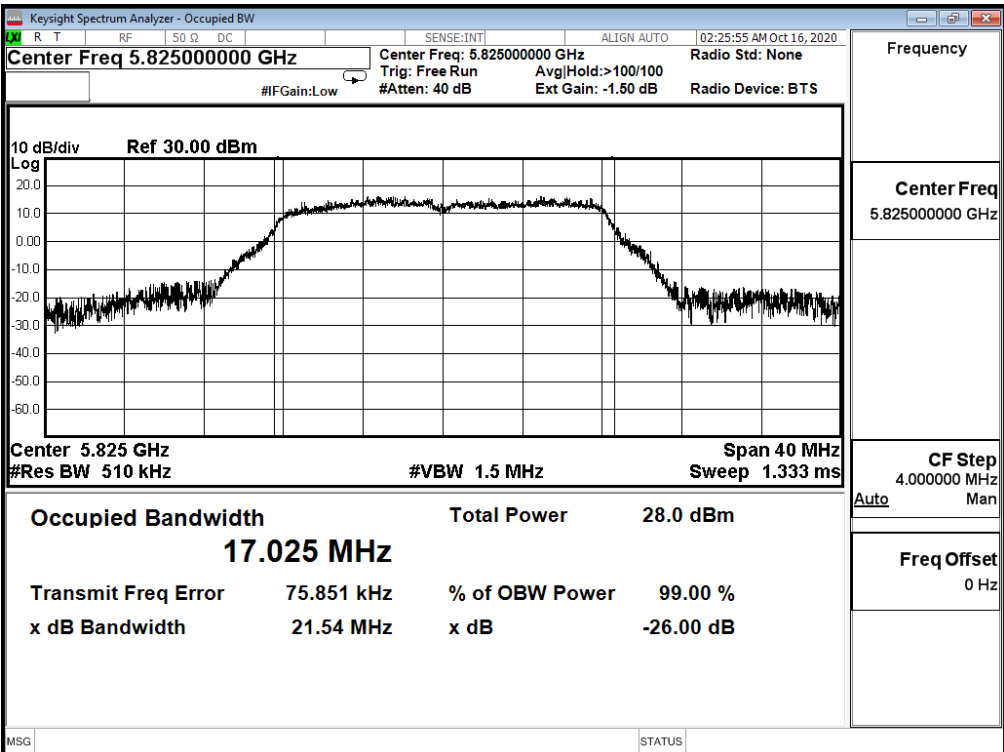
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

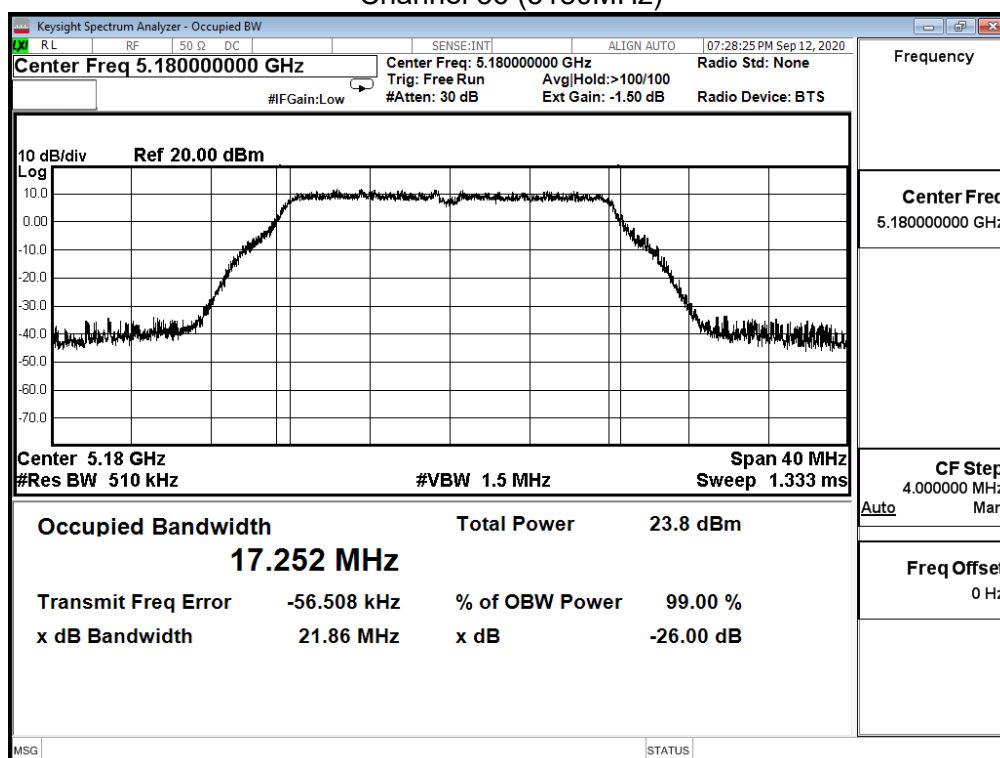


Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

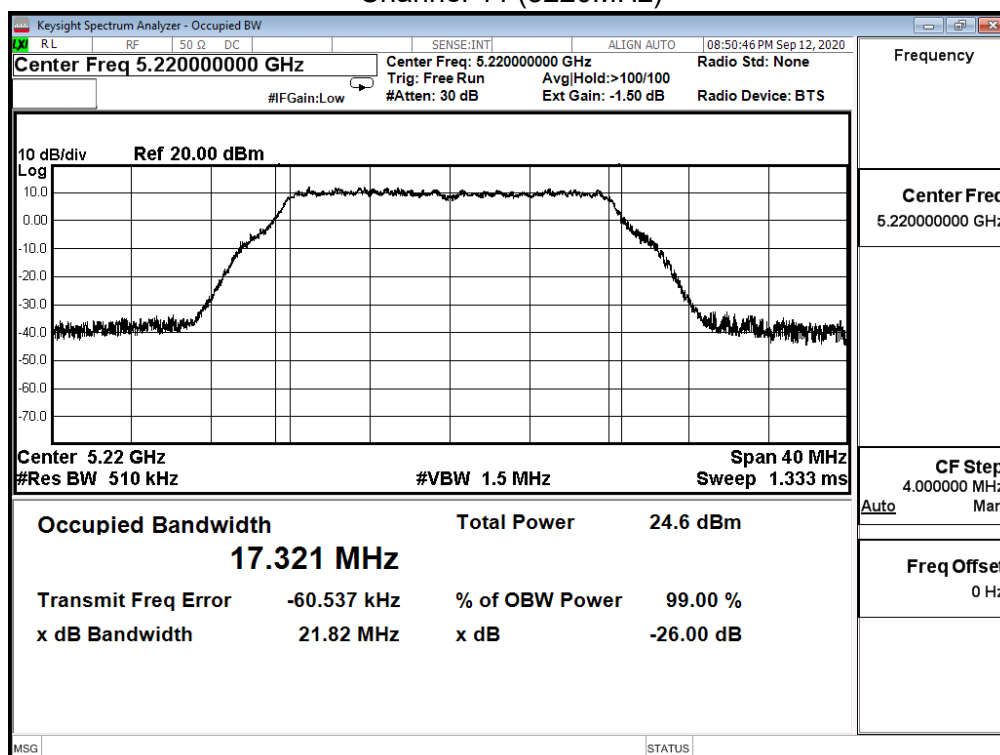
IEEE 802.11a (ANT 5)

Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	17.252	21.860	--	Pass
44	5220	17.321	21.820	--	Pass
48	5240	17.380	21.830	--	Pass
149	5745	17.674	N/A	--	Pass
157	5785	17.655		--	Pass
165	5825	17.636		--	Pass

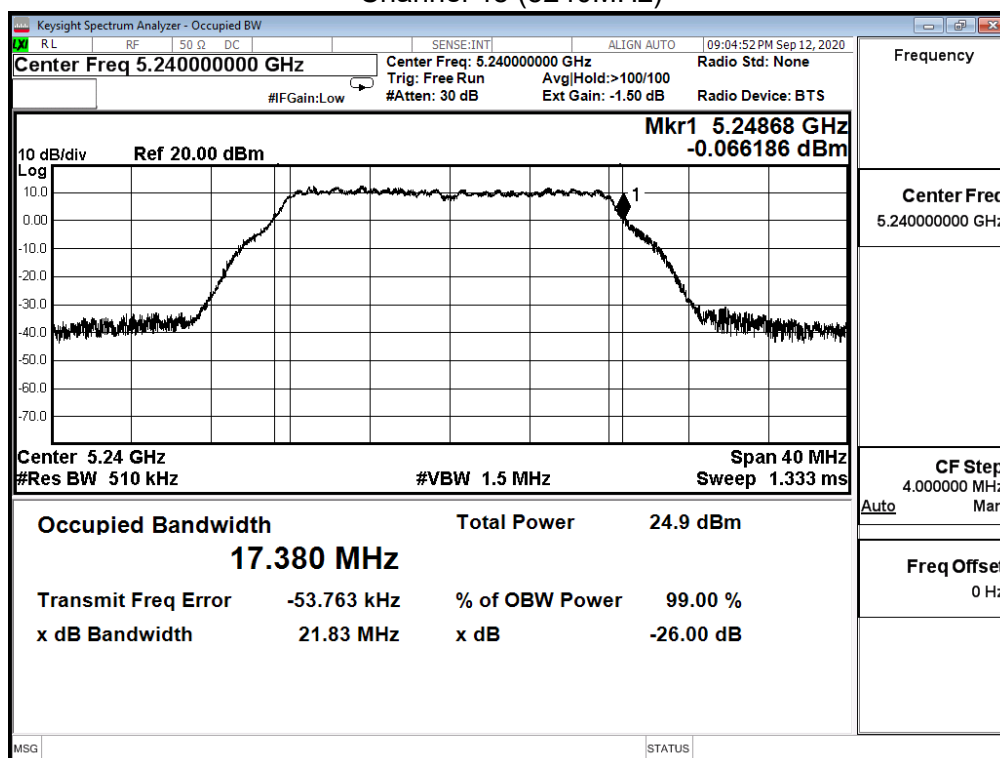
Channel 36 (5180MHz)



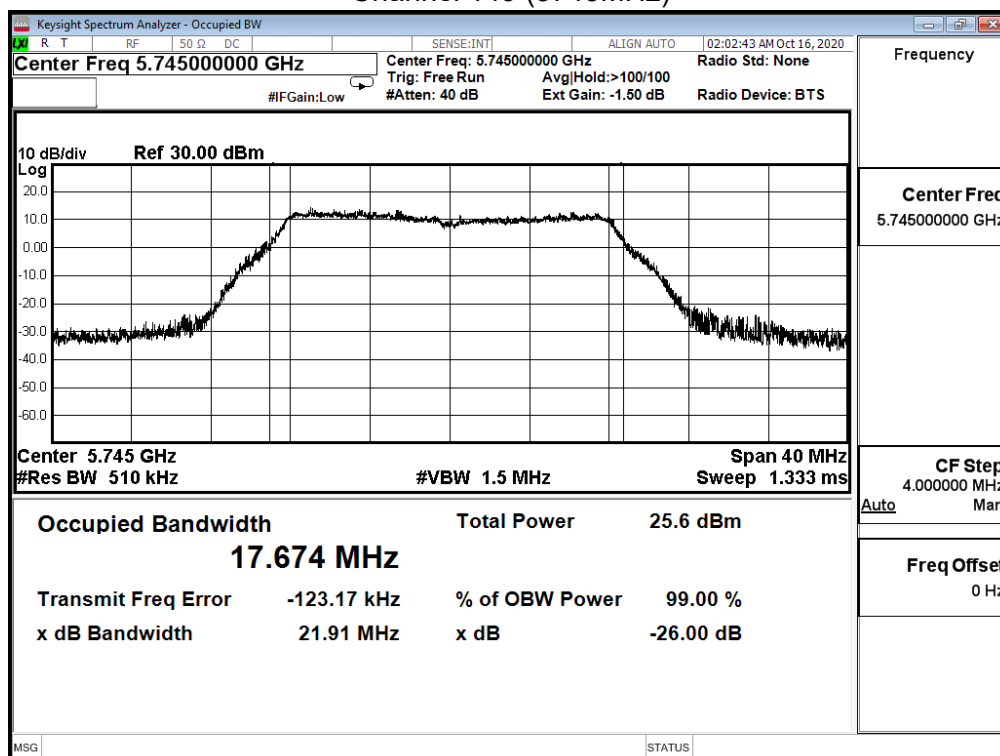
Channel 44 (5220MHz)



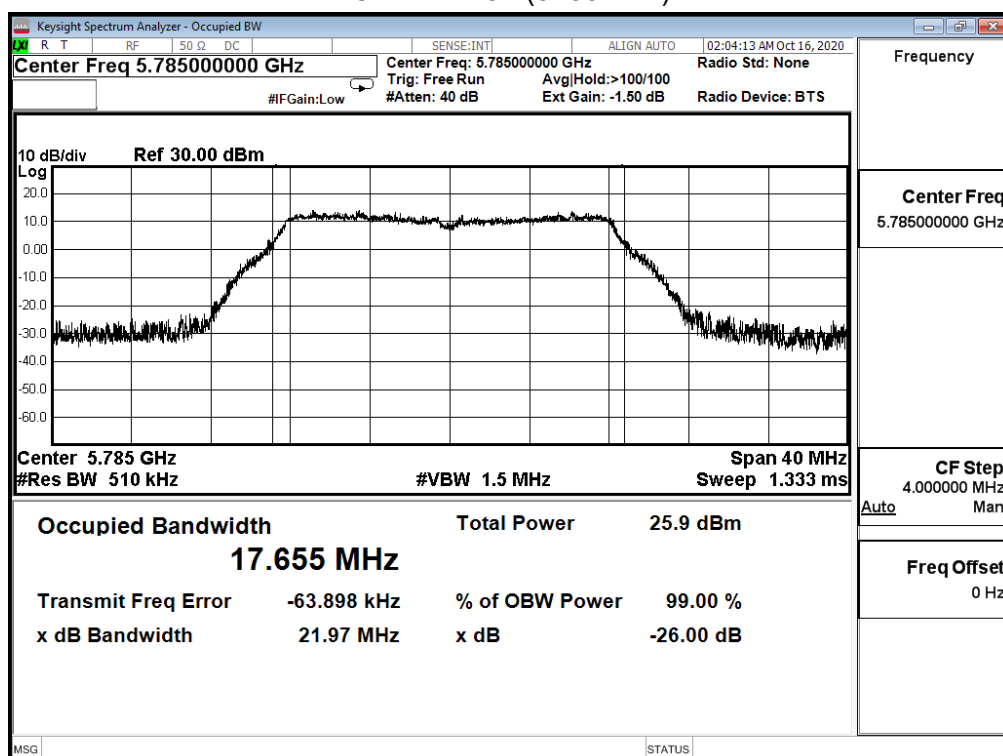
Channel 48 (5240MHz)



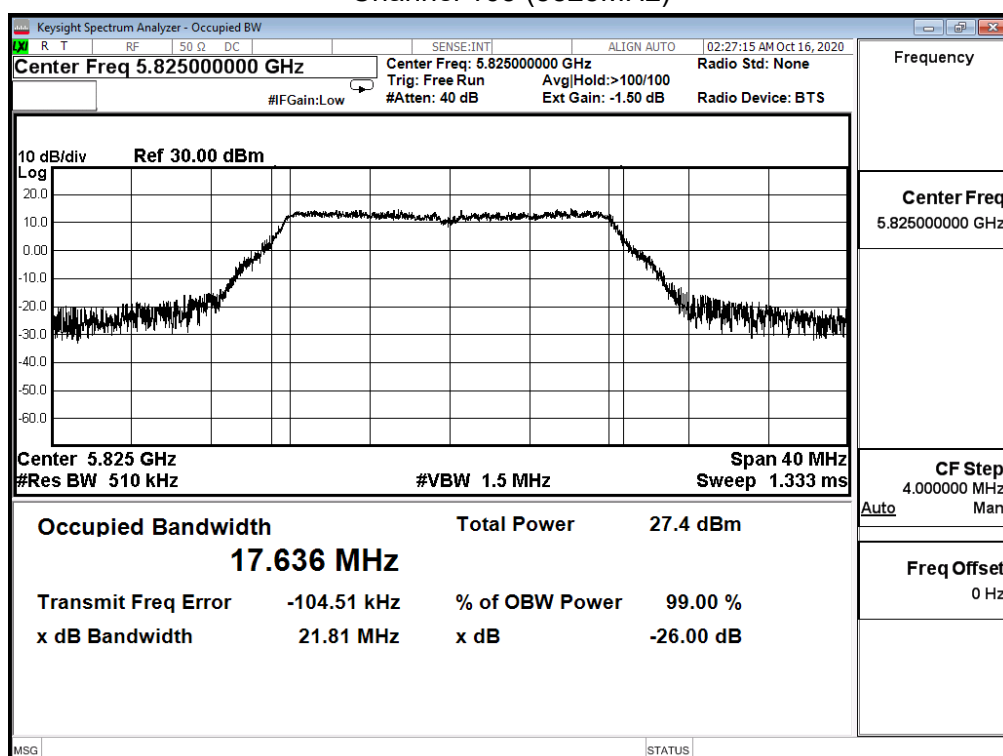
Channel 149 (5745MHz)



Channel 157 (5785MHz)



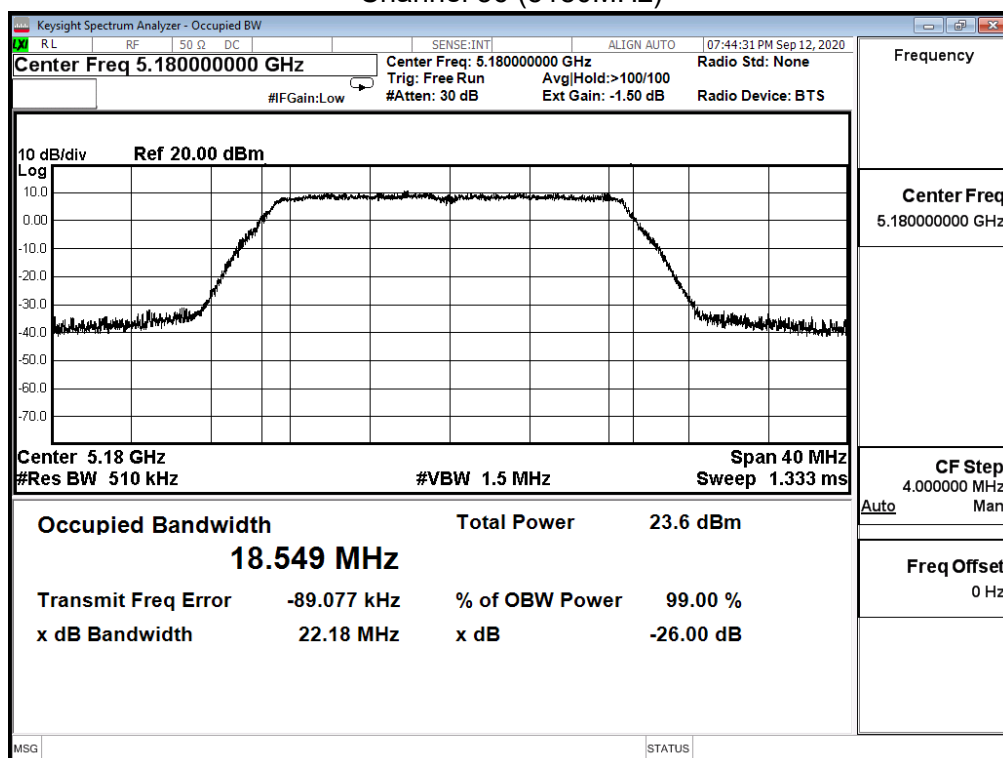
Channel 165 (5825MHz)



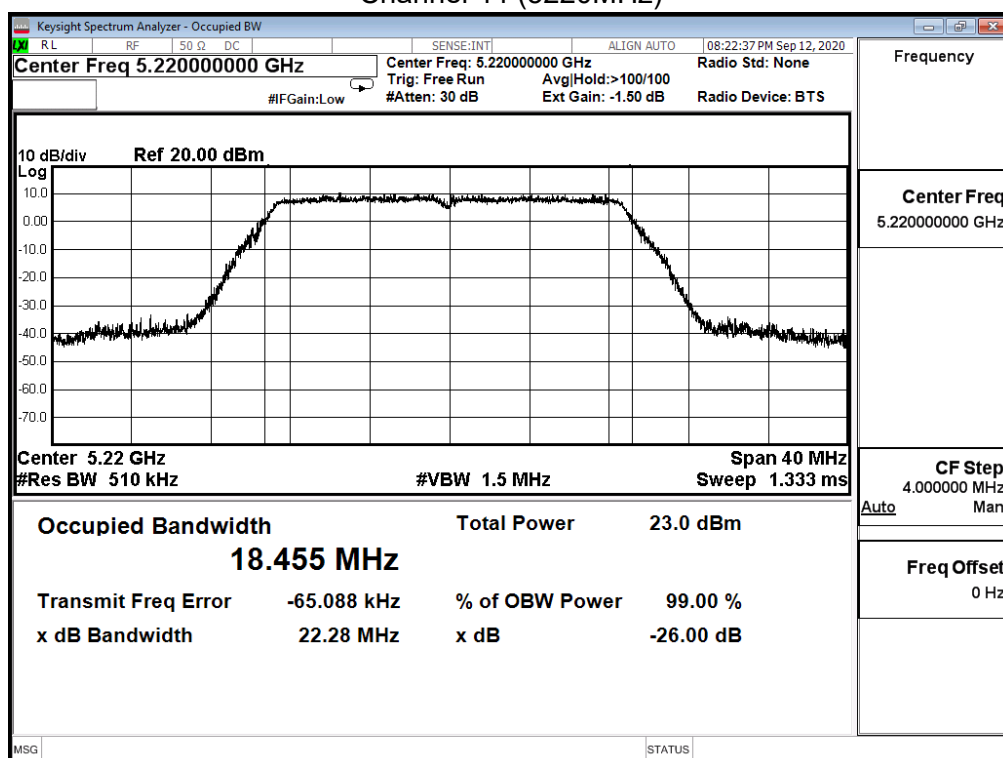
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/14	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_20M(ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	18.549	22.180	--	Pass
44	5220	18.455	22.280	--	Pass
48	5240	18.400	22.110	--	Pass
149	5745	18.381	N/A	--	Pass
157	5785	18.416		--	Pass
165	5825	18.508		--	Pass

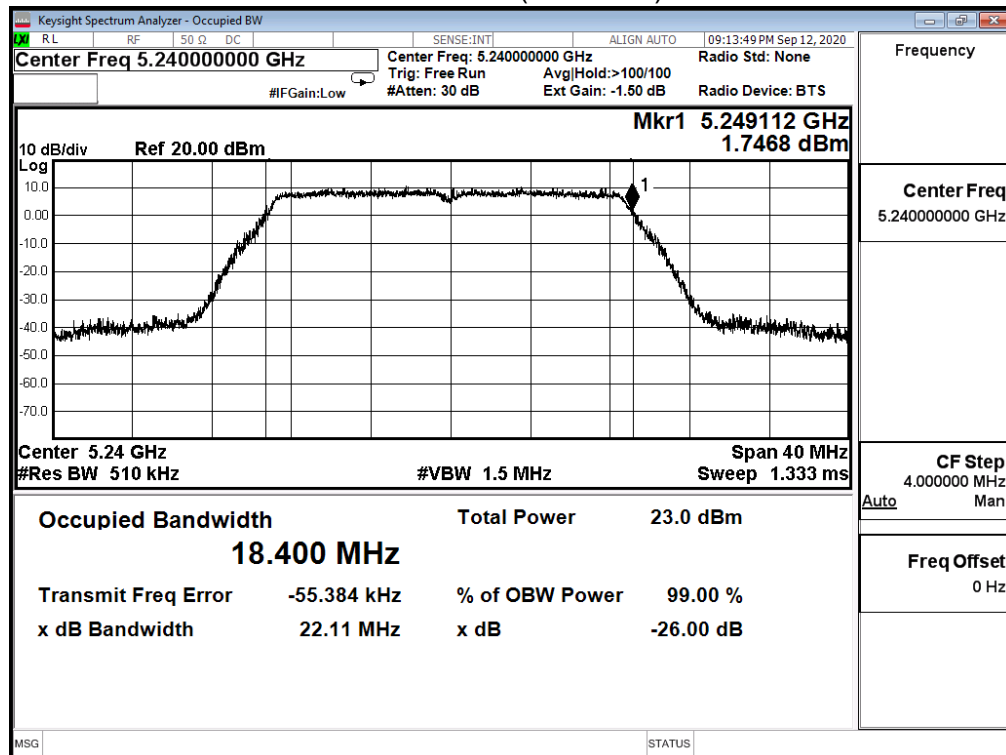
Channel 36 (5180MHz)



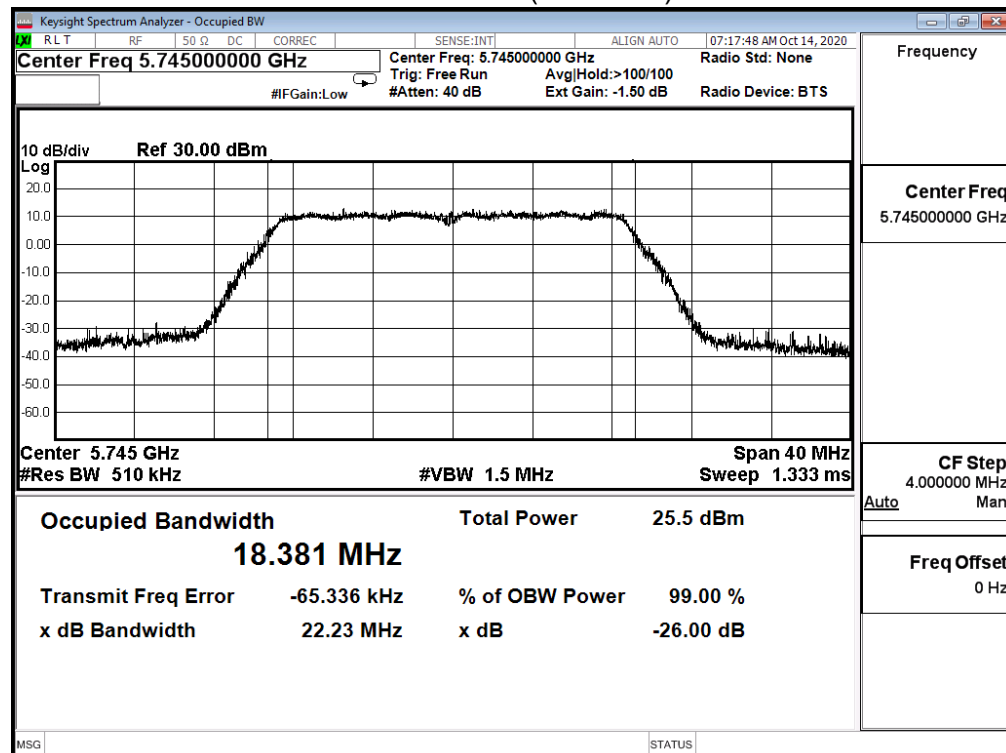
Channel 44 (5220MHz)



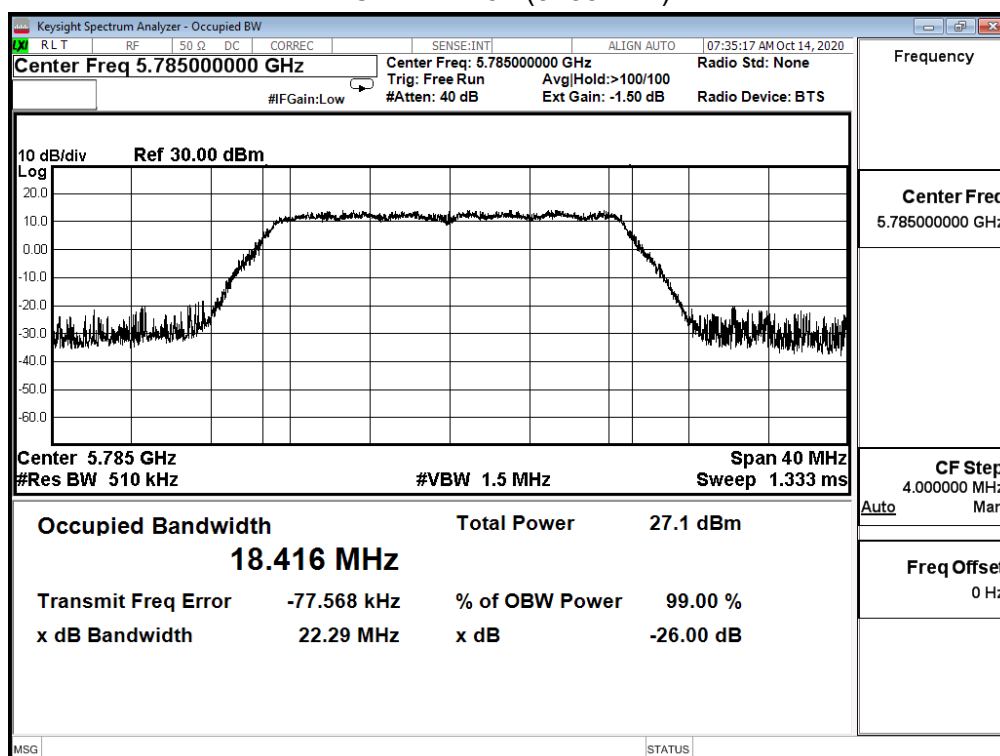
Channel 48 (5240MHz)



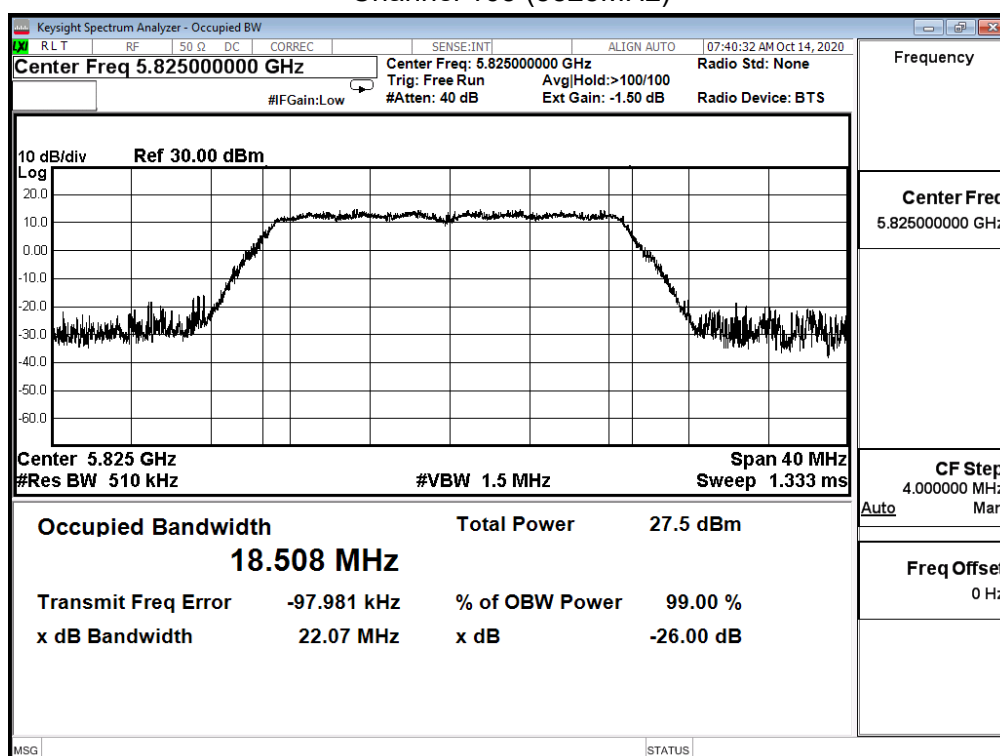
Channel 149 (5745MHz)



Channel 157 (5785MHz)



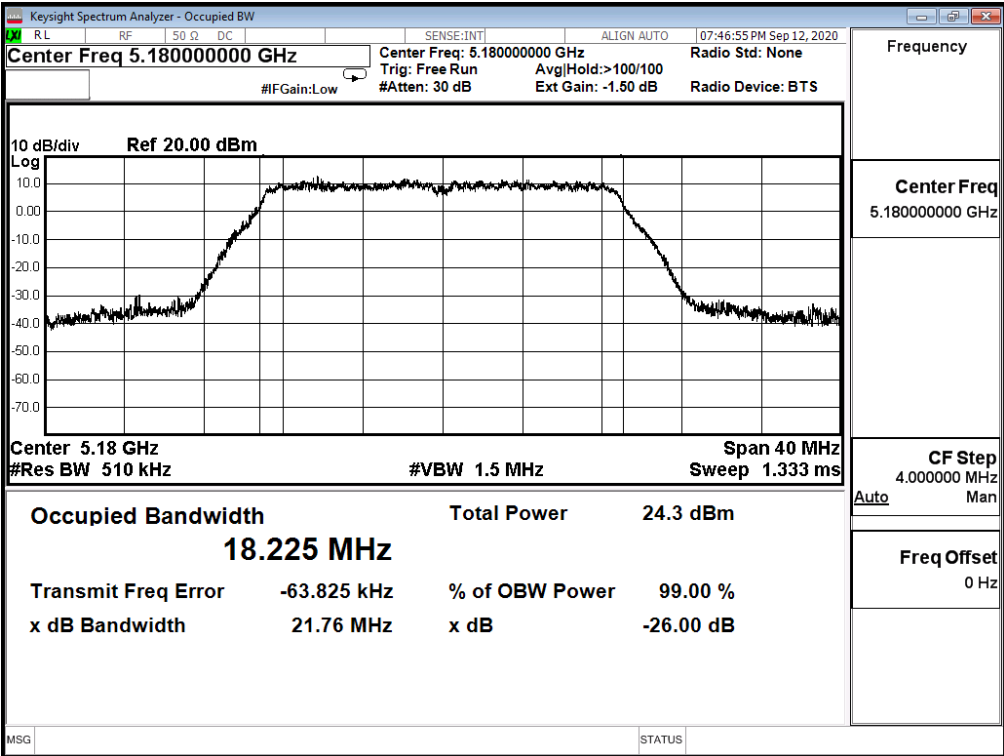
Channel 165 (5825MHz)



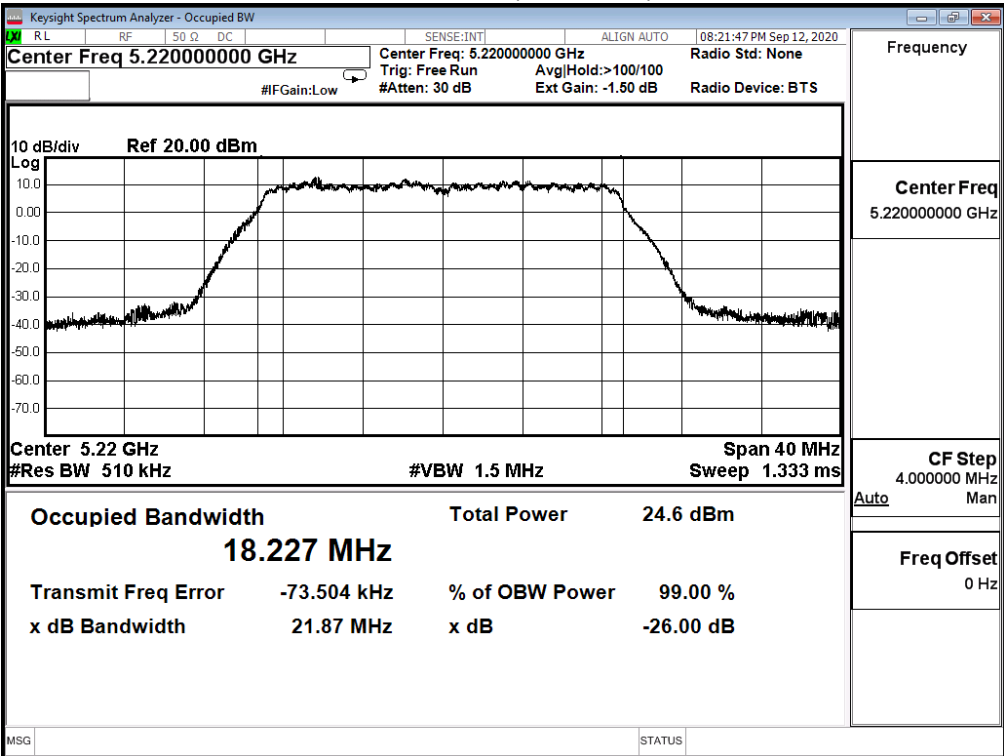
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_20M(ANT 3)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	18.225	21.760	--	Pass
44	5220	18.227	21.870	--	Pass
48	5240	18.224	21.810	--	Pass
149	5745	18.245	N/A	--	Pass
157	5785	18.283		--	Pass
165	5825	18.346		--	Pass

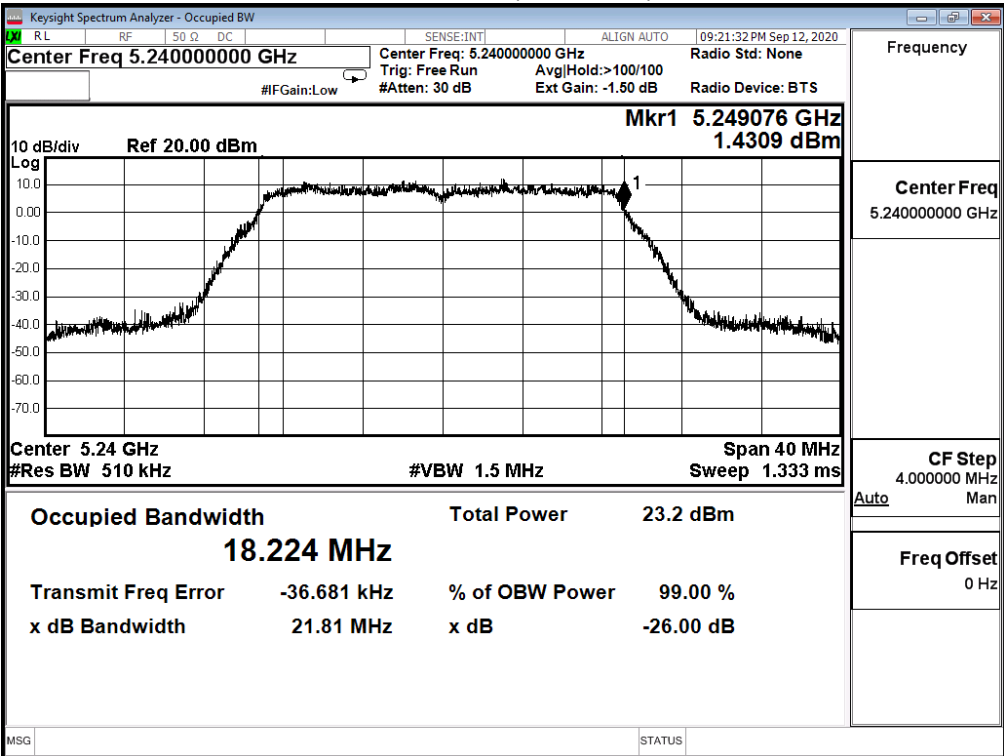
Channel 36 (5180MHz)



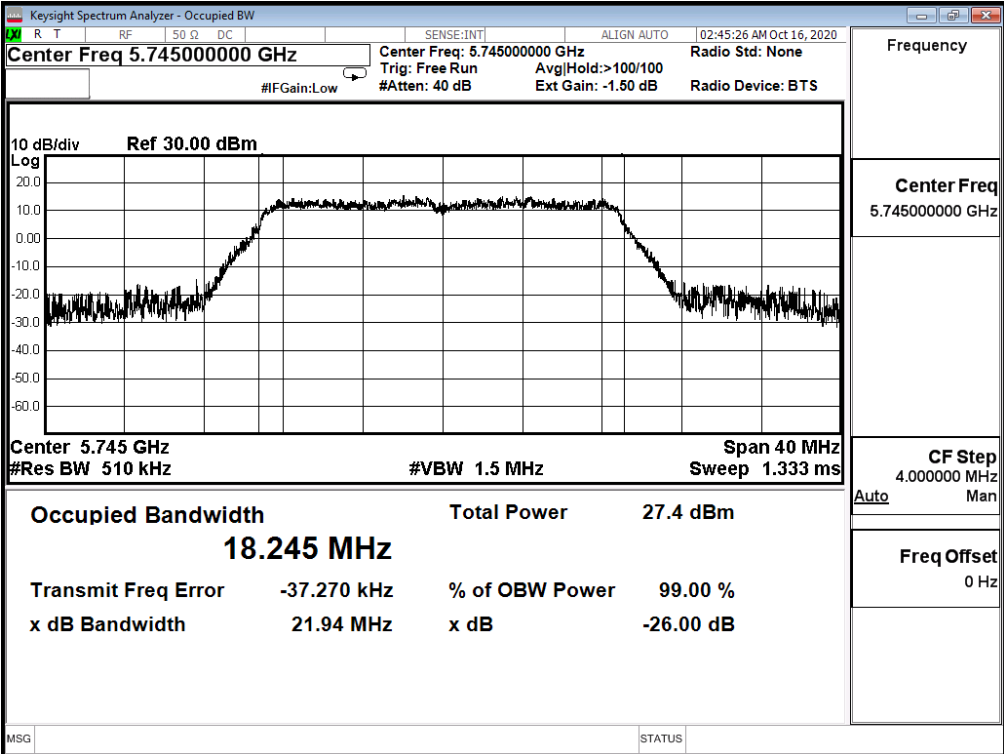
Channel 44 (5220MHz)



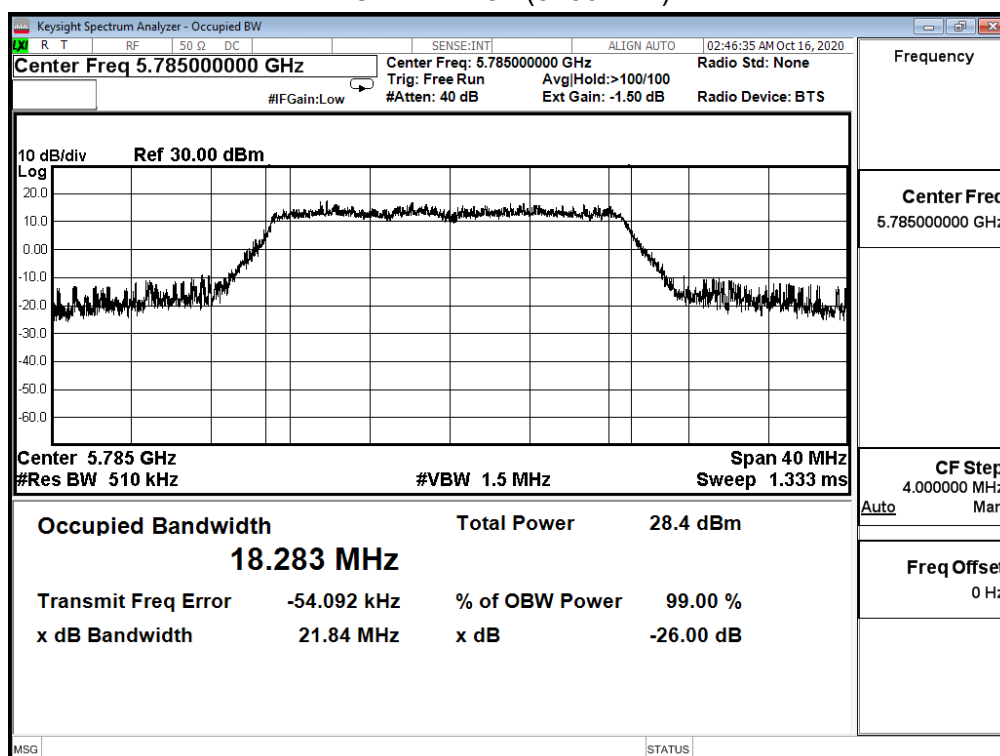
Channel 48 (5240MHz)



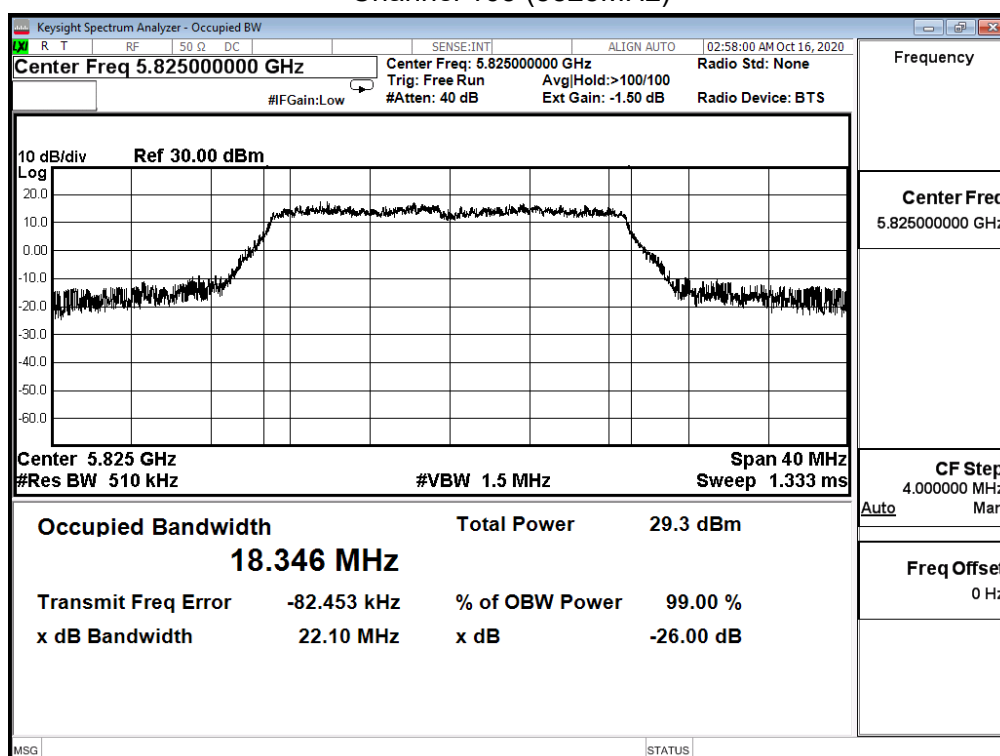
Channel 149 (5745MHz)



Channel 157 (5785MHz)



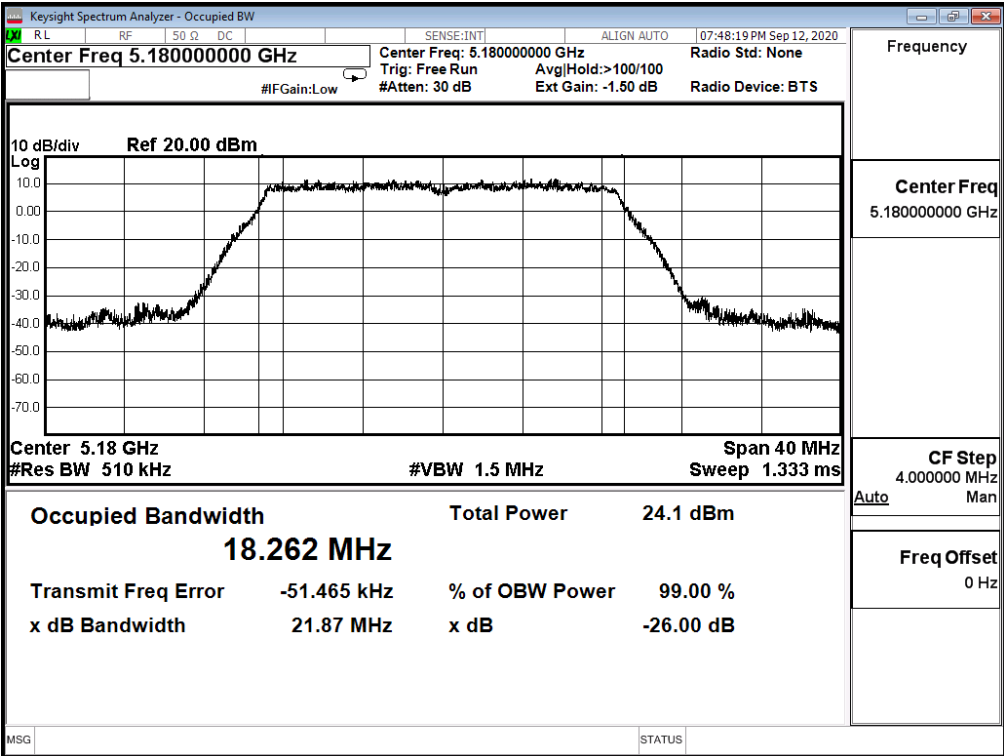
Channel 165 (5825MHz)



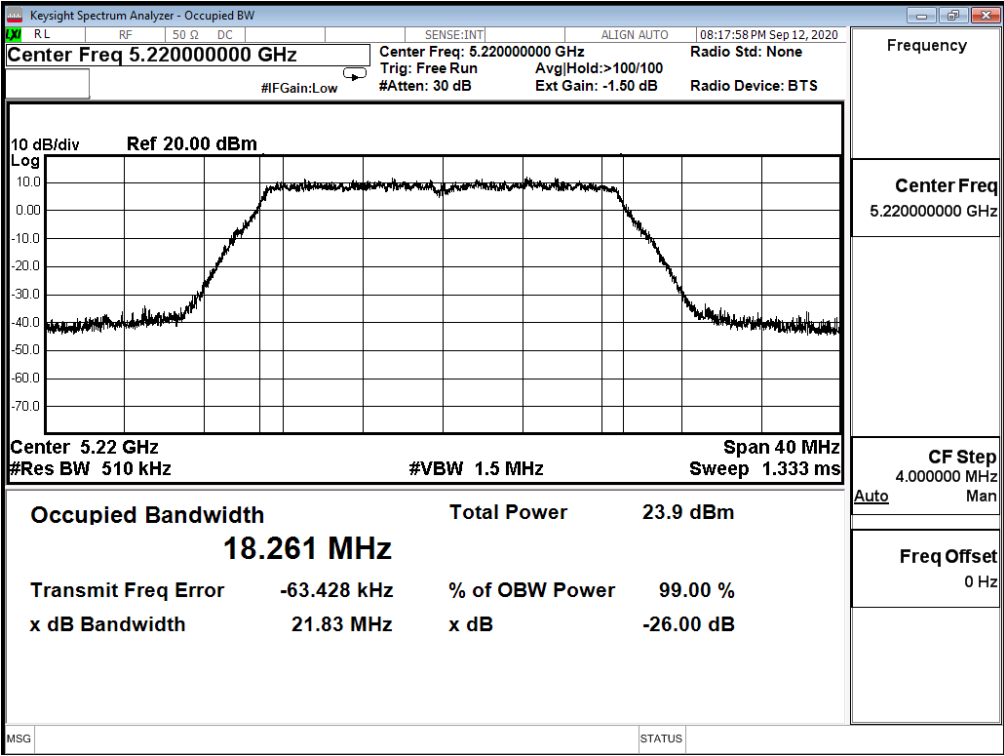
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_20M(ANT 4)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	18.262	21.870	--	Pass
44	5220	18.261	21.830	--	Pass
48	5240	18.270	21.900	--	Pass
149	5745	18.278	N/A	--	Pass
157	5785	18.286		--	Pass
165	5825	18.202		--	Pass

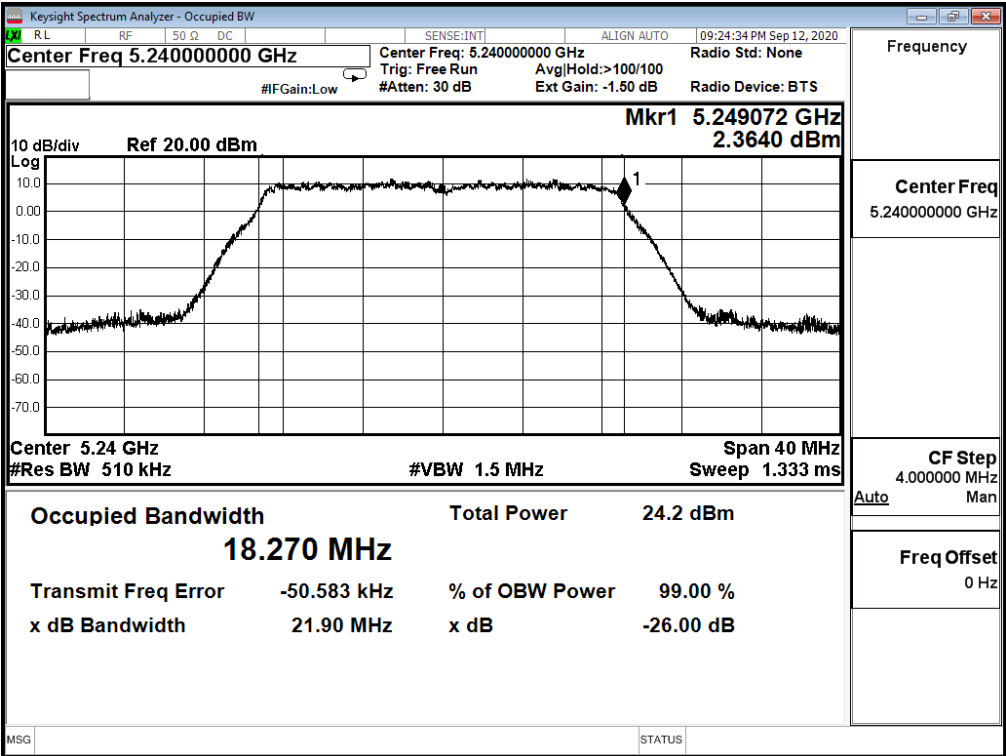
Channel 36 (5180MHz)



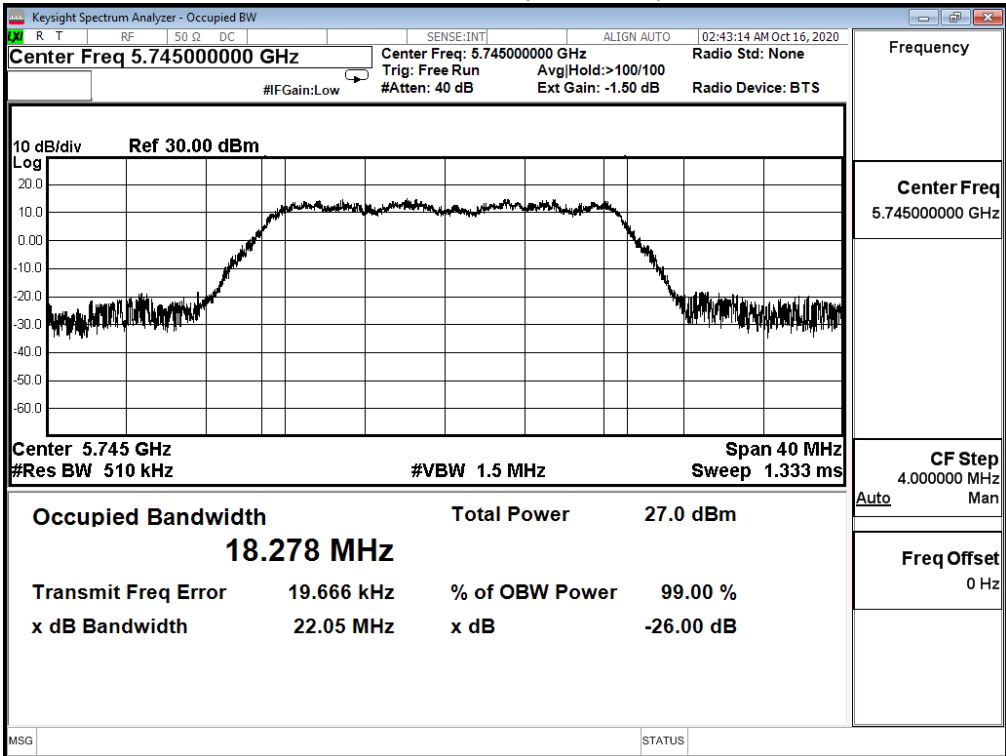
Channel 44 (5220MHz)



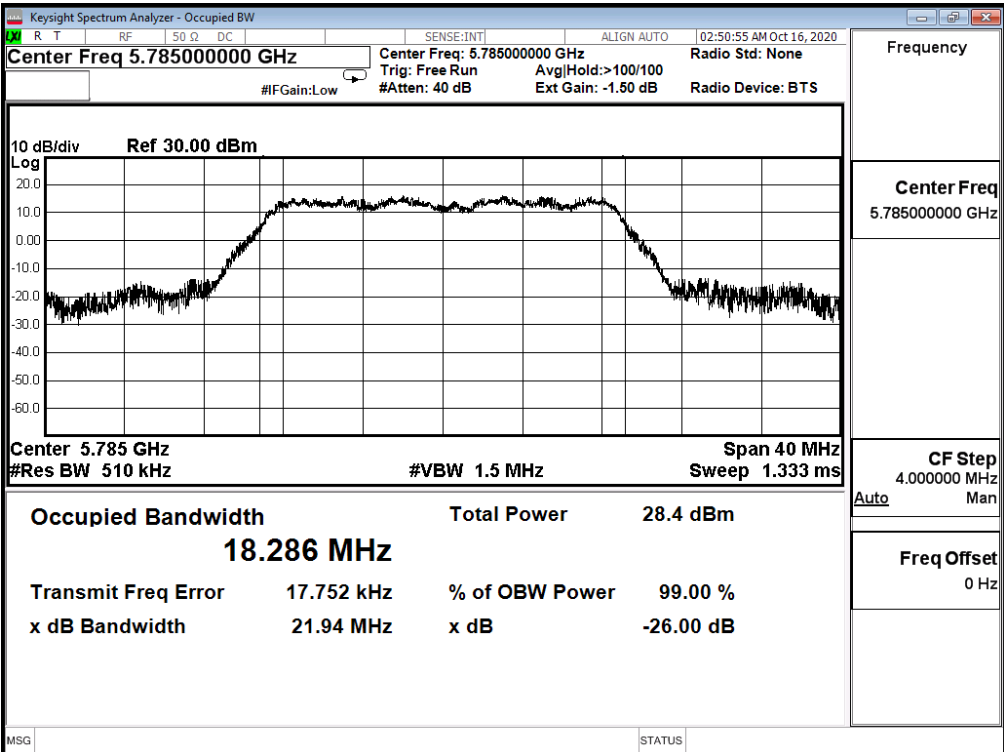
Channel 48 (5240MHz)



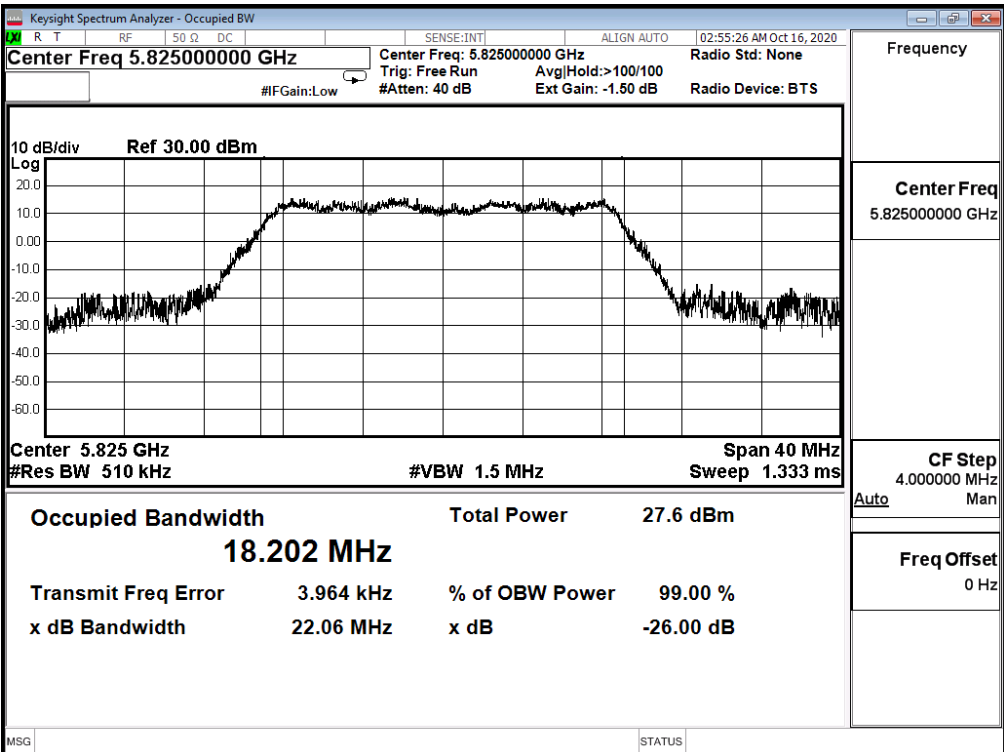
Channel 149 (5745MHz)



Channel 157 (5785MHz)



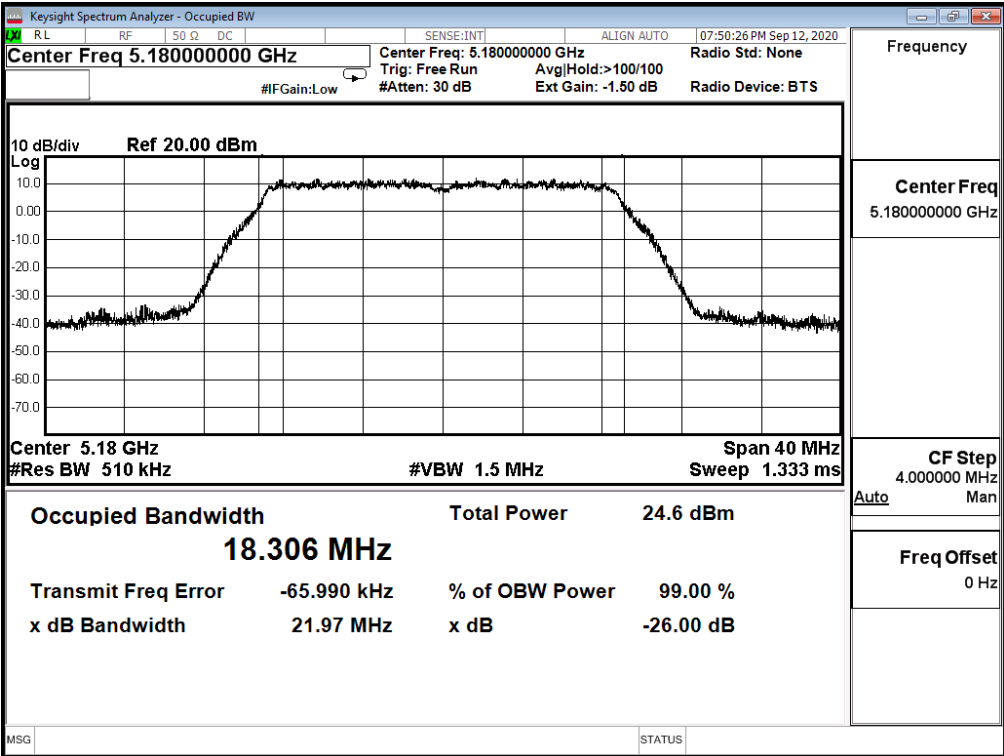
Channel 165 (5825MHz)



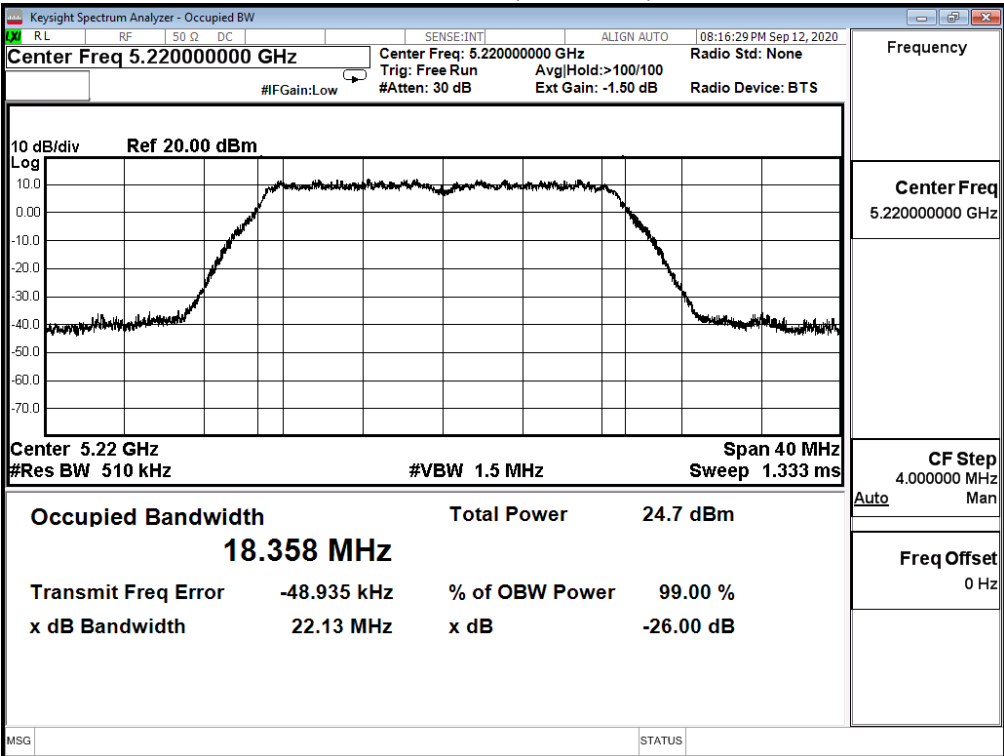
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_20M(ANT 5)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	18.306	21.970	--	Pass
44	5220	18.358	22.130	--	Pass
48	5240	18.332	22.130	--	Pass
149	5745	18.292	N/A	--	Pass
157	5785	18.304		--	Pass
165	5825	18.286		--	Pass

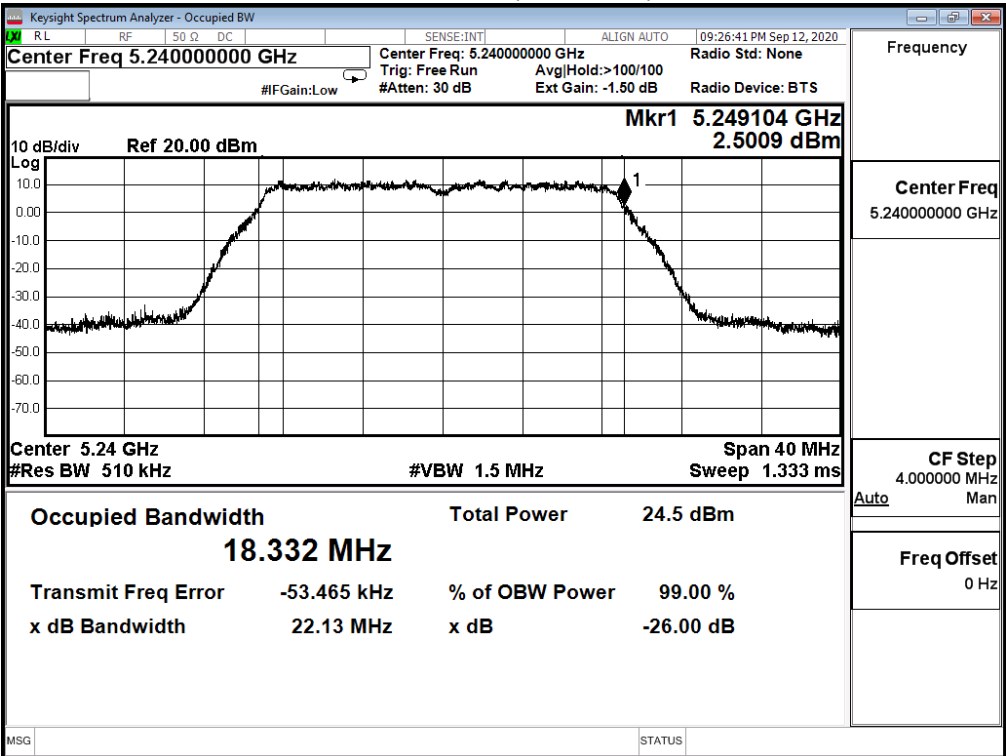
Channel 36 (5180MHz)



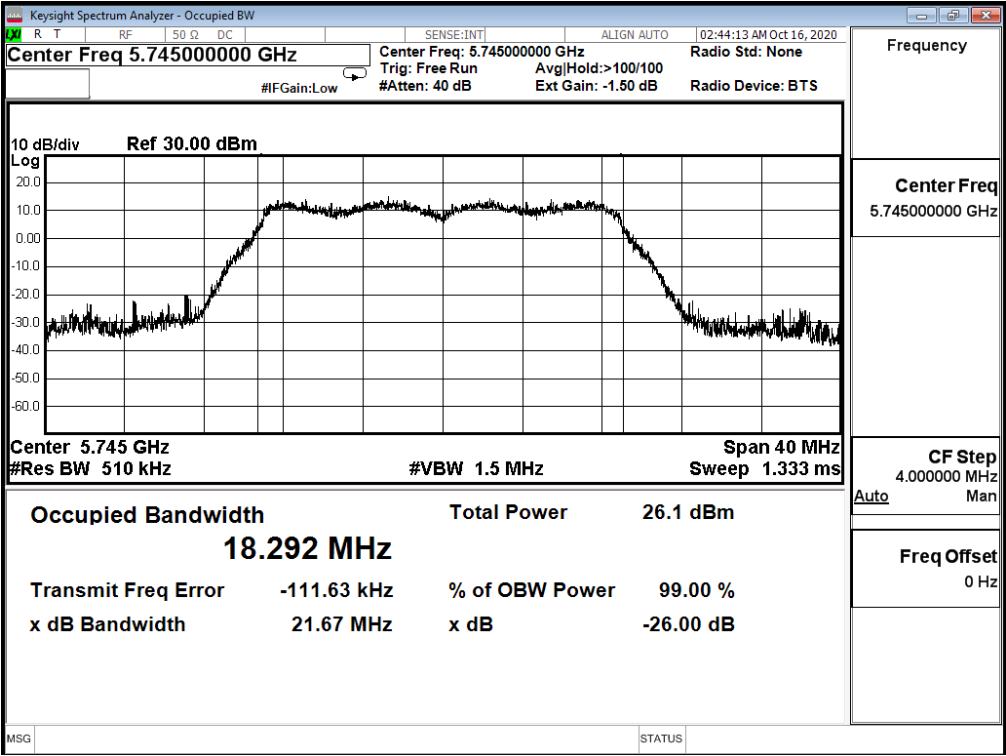
Channel 44 (5220MHz)



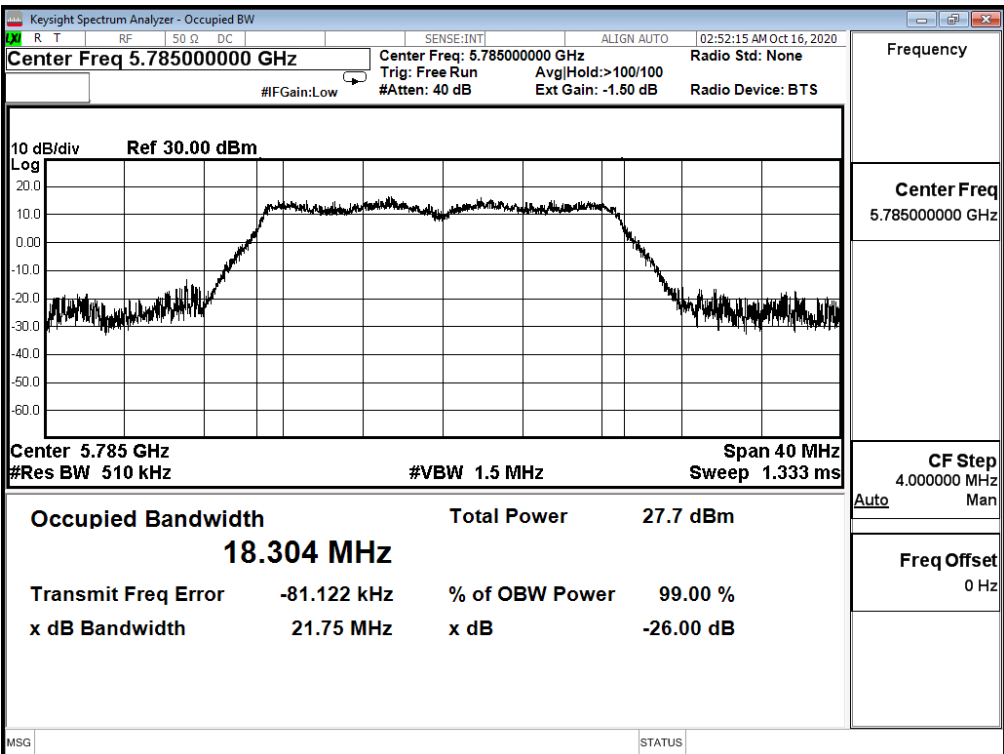
Channel 48 (5240MHz)



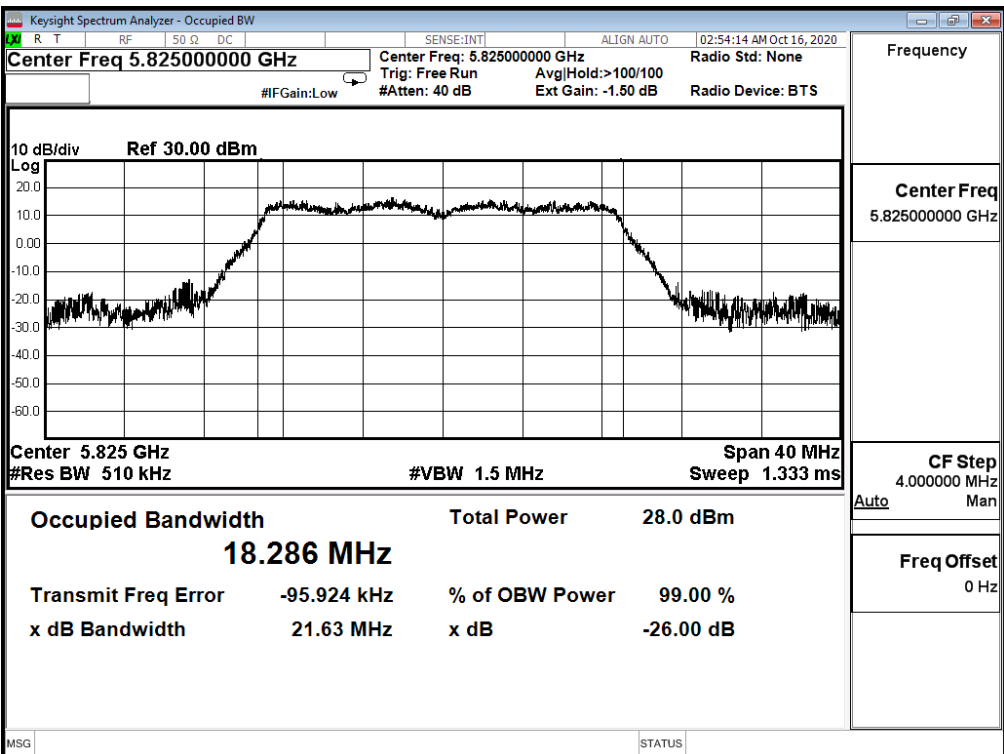
Channel 149 (5745MHz)



Channel 157 (5785MHz)



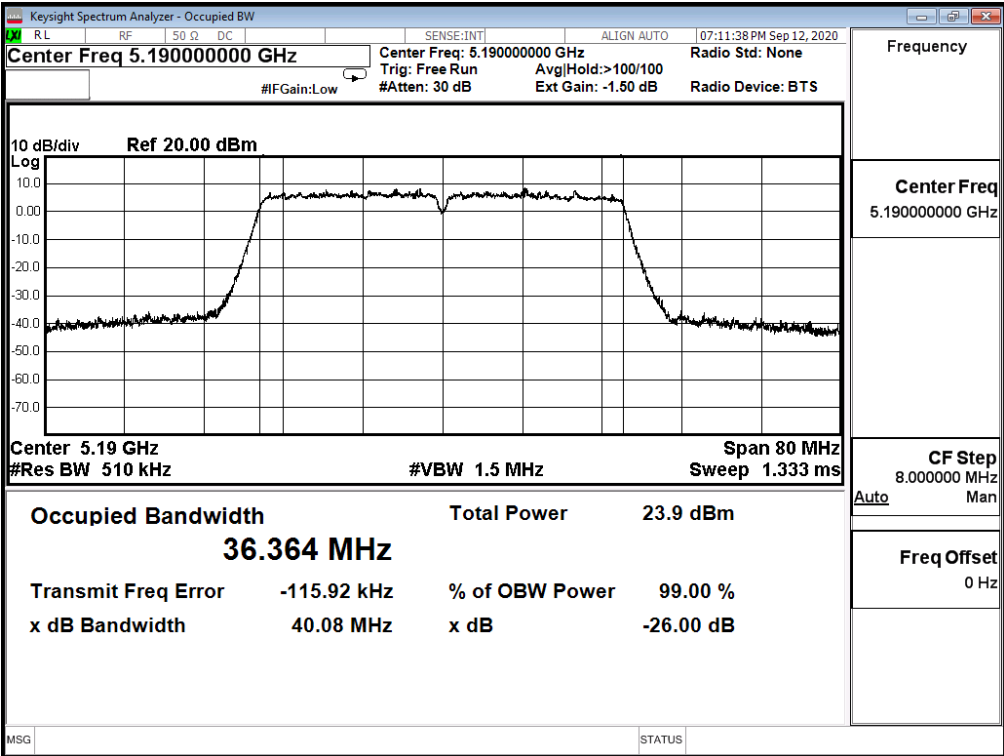
Channel 165 (5825MHz)



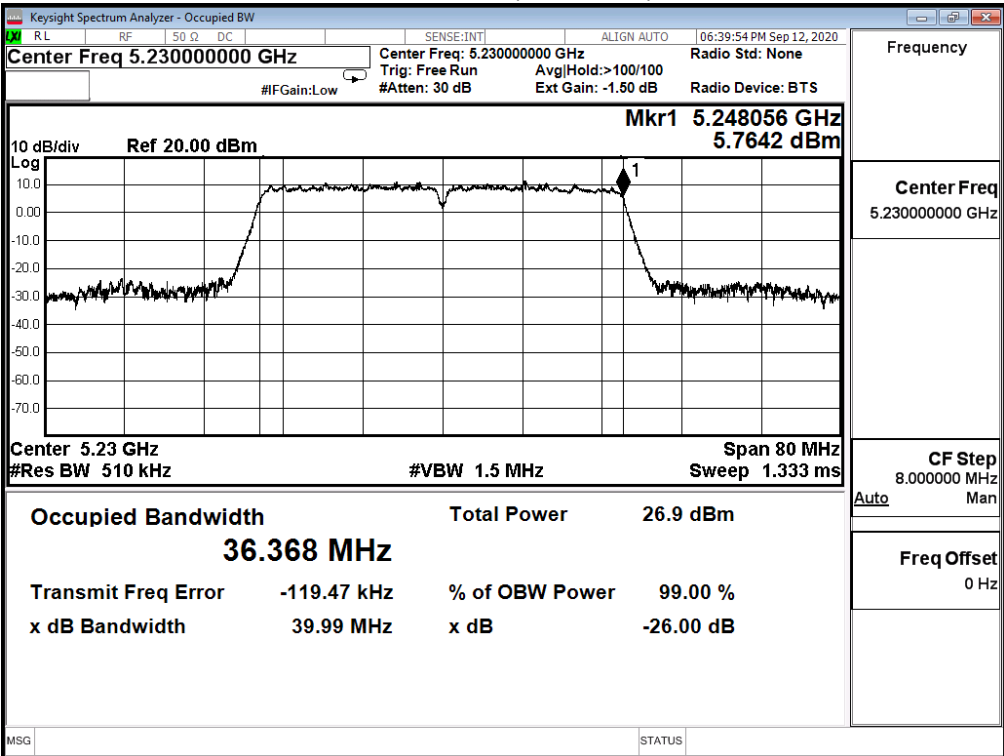
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/14	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_40M(ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
38	5190	36.364	40.080	--	Pass
46	5230	36.368	39.990	--	Pass
151	5755	36.378	N/A	--	Pass
159	5795	36.341		--	Pass

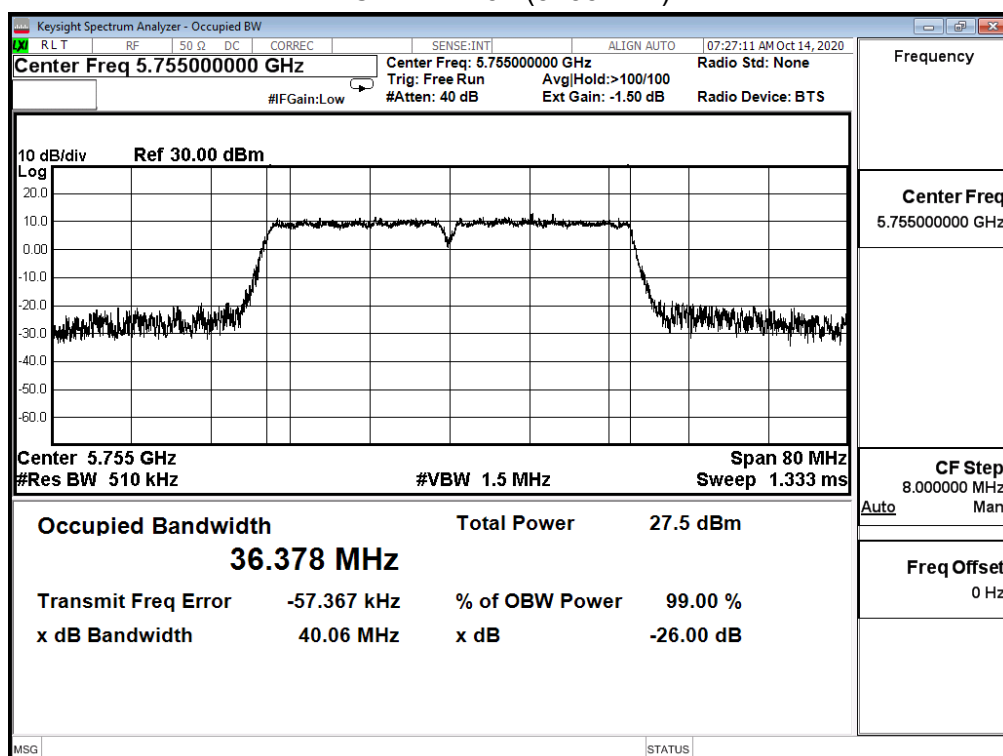
Channel 38 (5190MHz)



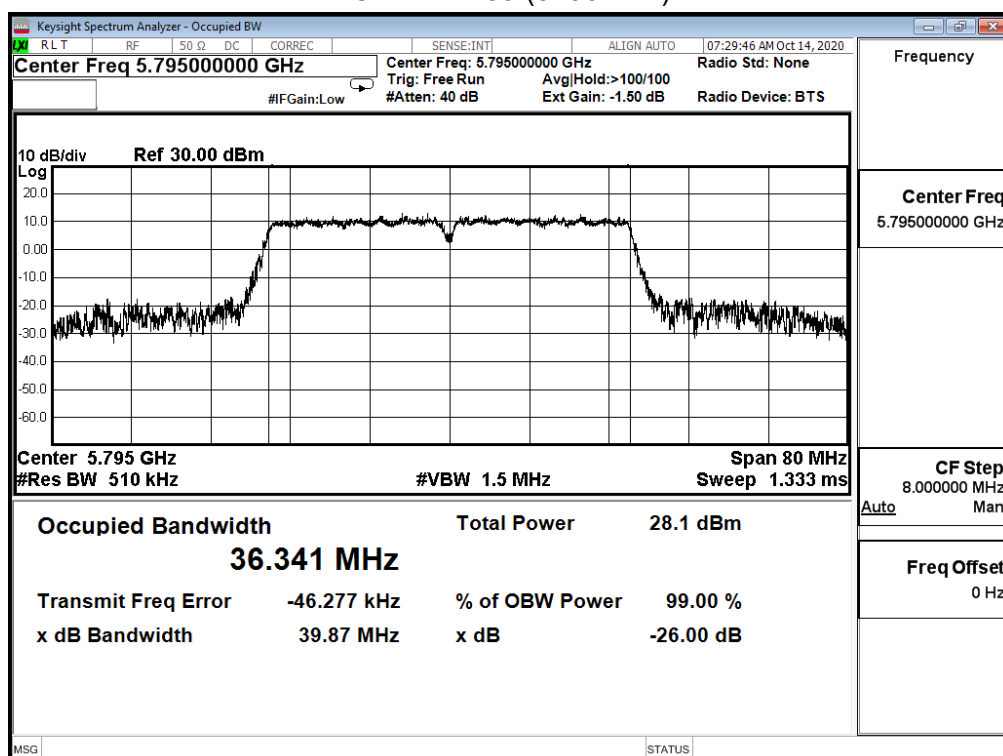
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_40M(ANT 3)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
38	5190	36.271	39.880	--	Pass
46	5230	36.287	39.760	--	Pass
151	5755	36.415	N/A	--	Pass
159	5795	36.362		--	Pass

Keysight Spectrum Analyzer - Occupied BW

RL RF 50 Ω DC SENSE:INT ALIGN AUTO 07:15:03 PM Sep 12, 2020

Center Freq 5.19000000 GHz #FGain:Low #Atten: 30 dB Avg|Hold:>100/100 Ext Gain: -1.50 dB Radio Std: None Radio Device: BTS

10 dB/div Ref 20.00 dBm

Center 5.19 GHz Span 80 MHz
#Res BW 510 kHz #VBW 1.5 MHz Sweep 1.333 ms

Occupied Bandwidth		Total Power	
36.271 MHz		24.6 dBm	
Transmit Freq Error	-69.766 kHz	% of OBW Power	99.00 %
x dB Bandwidth	39.88 MHz	x dB	-26.00 dB

Frequency 5.19000000 GHz

CF Step 8.000000 MHz

Freq Offset 0 Hz

Keysight Spectrum Analyzer - Occupied BW

Center Freq 5.23000000 GHz

Center Freq: 5.230000000 GHz
 Trig: Free Run
 #Atten: 30 dB

Align AUTO
 Avg/Hold: >100/100
 Ext Gain: -1.50 dB

06:35:08 PM Sep 12, 2020
 Radio Std: None
 Radio Device: BTS

#FGain: Low

Frequency

Center Freq 5.23000000 GHz

Center Freq 5.23000000 GHz

CF Step 8.000000 MHz

Auto

Mar

Freq Offset 0 Hz

10 dB/div
 Log
 Ref 20.00 dBm

Mkr1 5.248096 GHz
 7.3595 dBm

Center 5.23 GHz
 #Res BW 510 kHz

Span 80 MHz
 Sweep 1.333 ms

#VBW 1.5 MHz

Occupied Bandwidth

Total Power 27.5 dBm

36.287 MHz

Transmit Freq Error -59.624 kHz

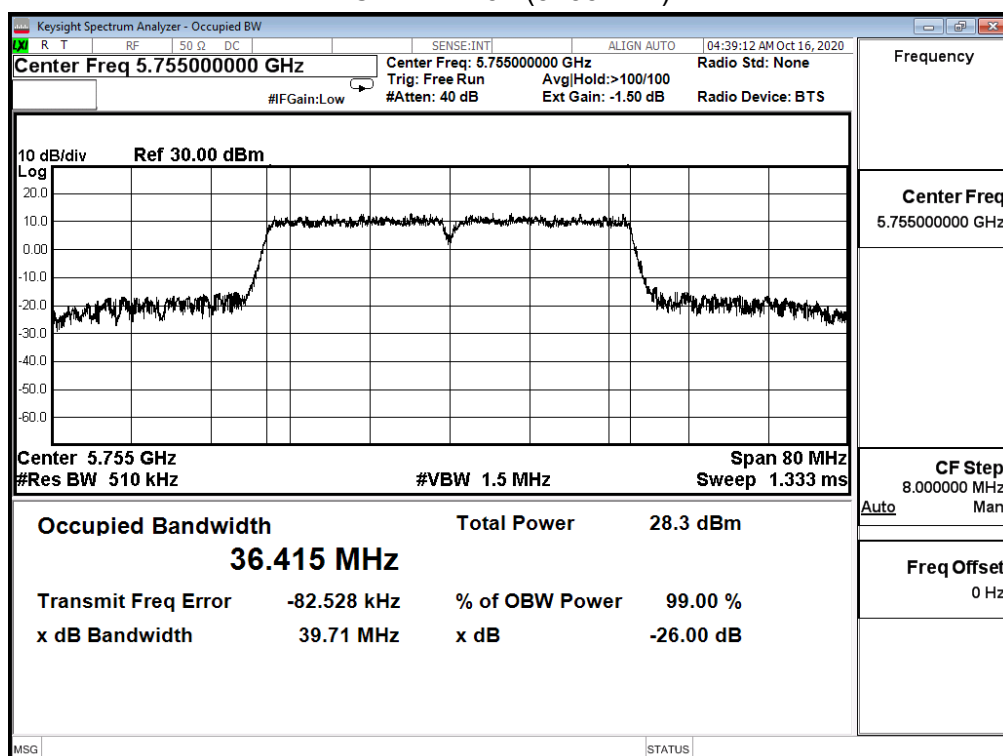
% of OBW Power 99.00 %

x dB Bandwidth 39.76 MHz

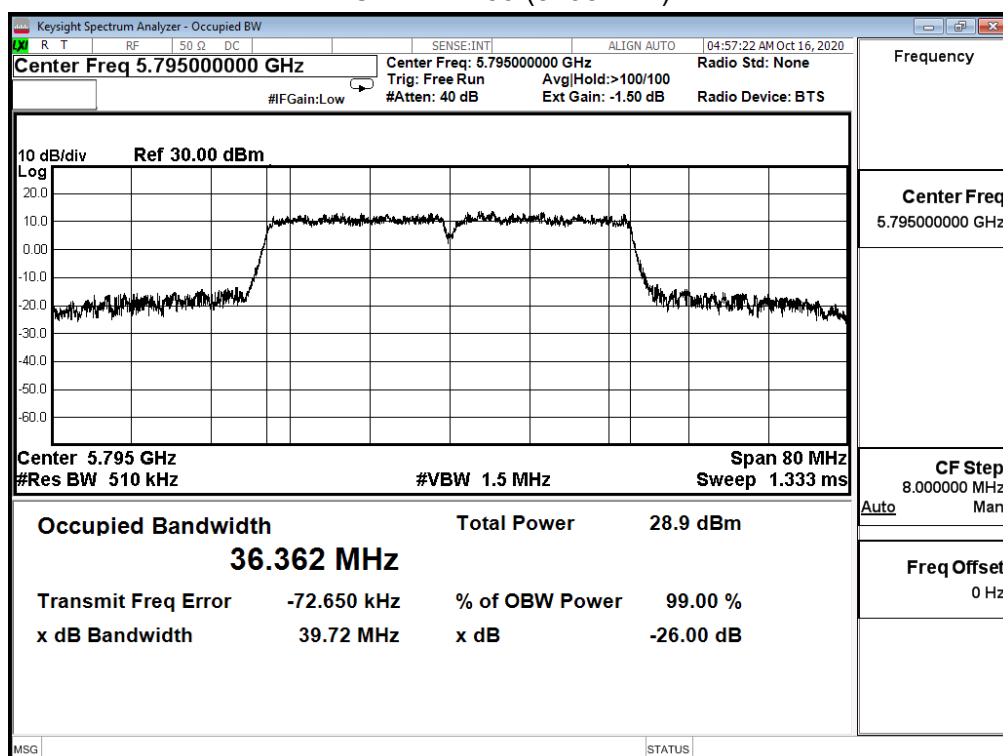
x dB -26.00 dB

MSG STATUS

Channel 151 (5755MHz)



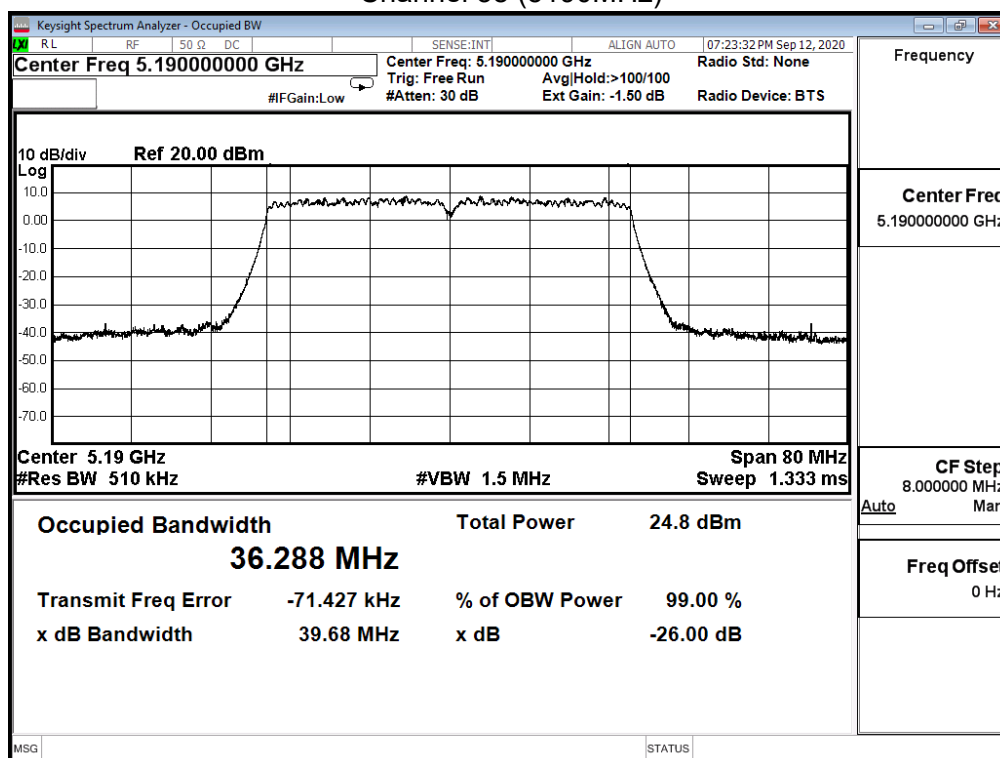
Channel 159 (5795MHz)



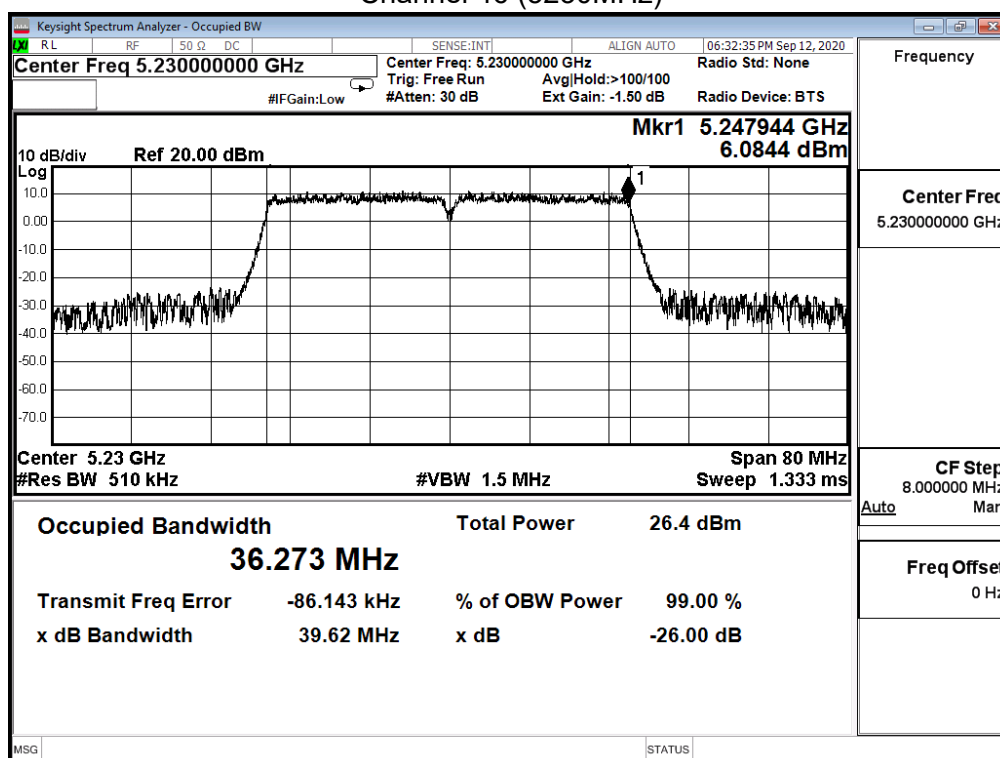
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_40M(ANT 4)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
38	5190	36.288	39.680	--	Pass
46	5230	36.273	39.620	--	Pass
151	5755	36.385	N/A	--	Pass
159	5795	36.356		--	Pass

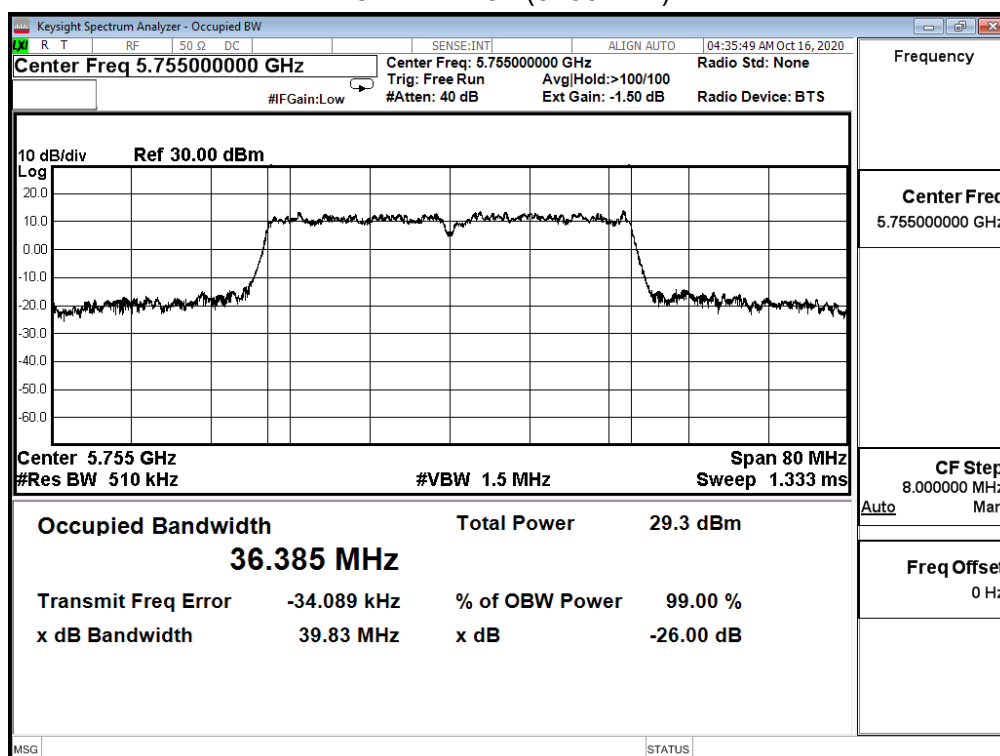
Channel 38 (5190MHz)



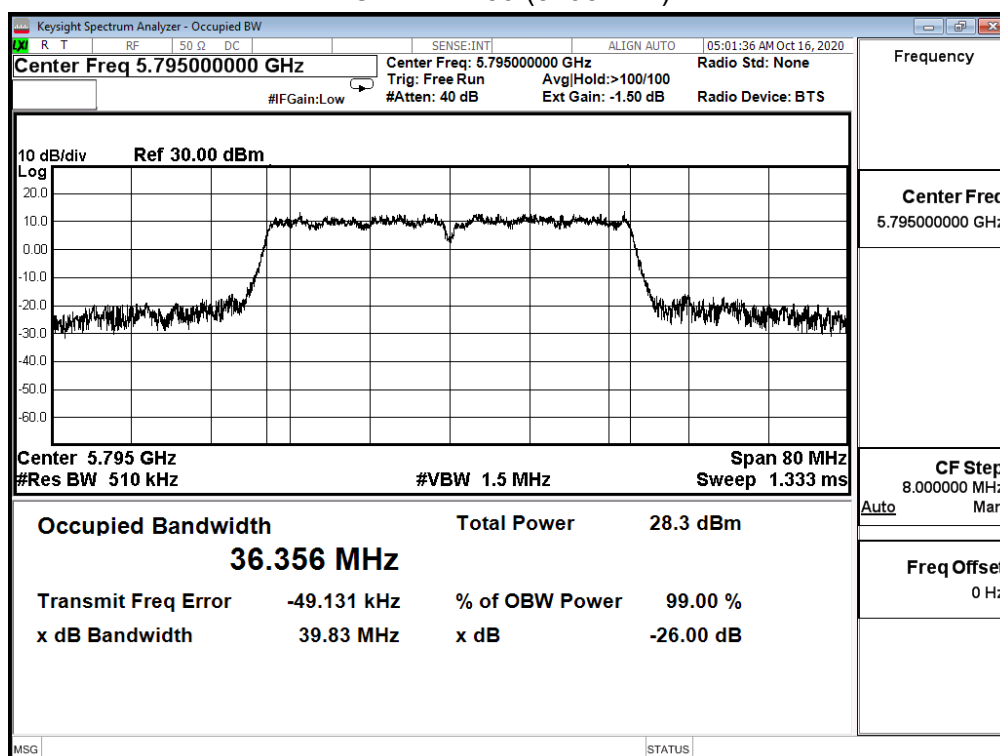
Channel 46 (5230MHz)



Channel 151 (5755MHz)



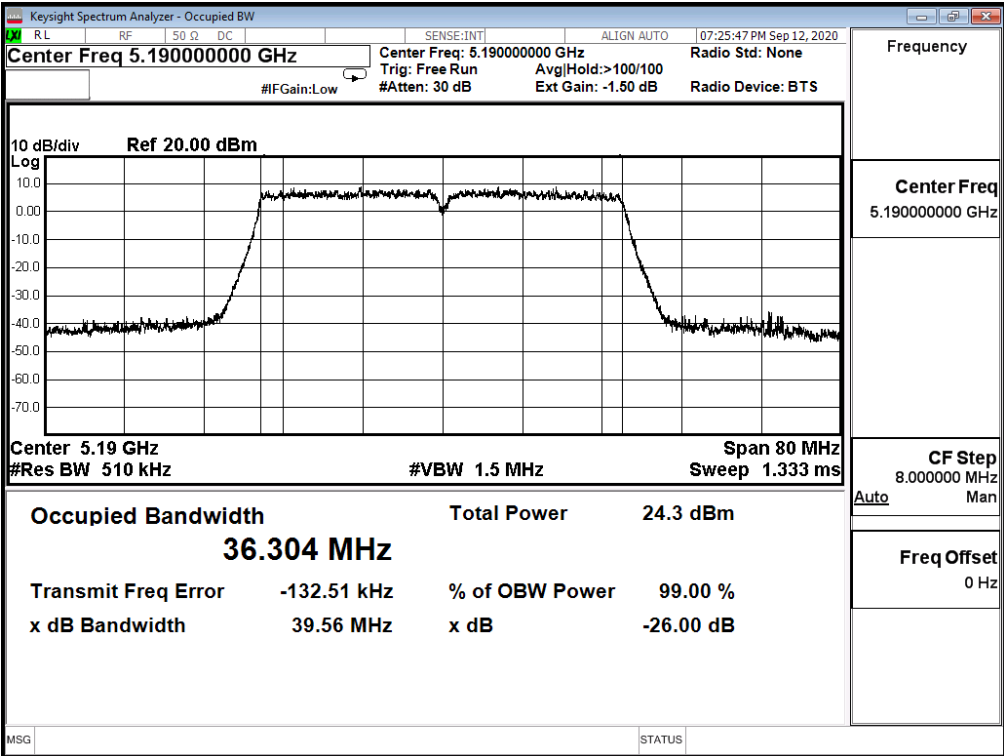
Channel 159 (5795MHz)



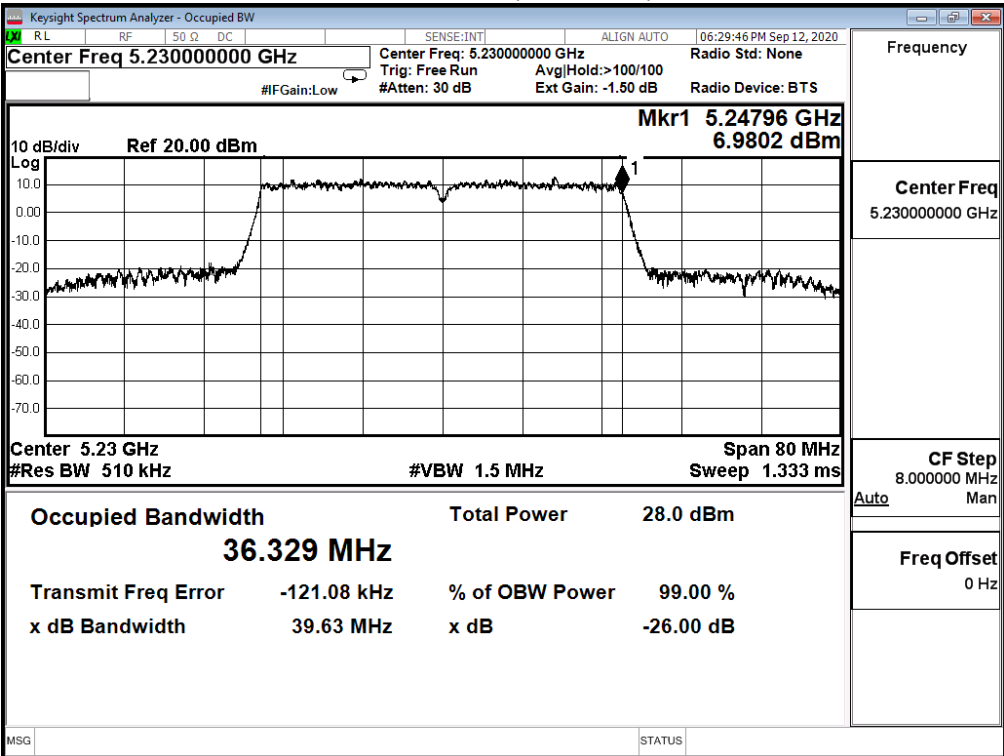
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_40M(ANT 5)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
38	5190	36.304	39.560	--	Pass
46	5230	36.329	39.630	--	Pass
151	5755	36.368	N/A	--	Pass
159	5795	36.431		--	Pass

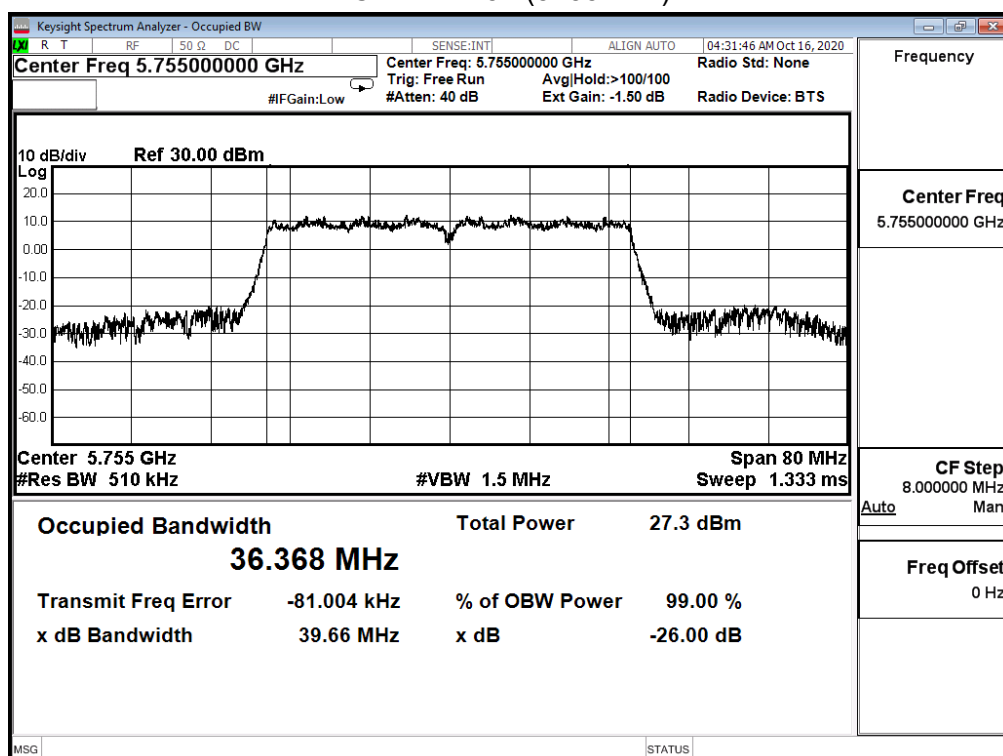
Channel 38 (5190MHz)



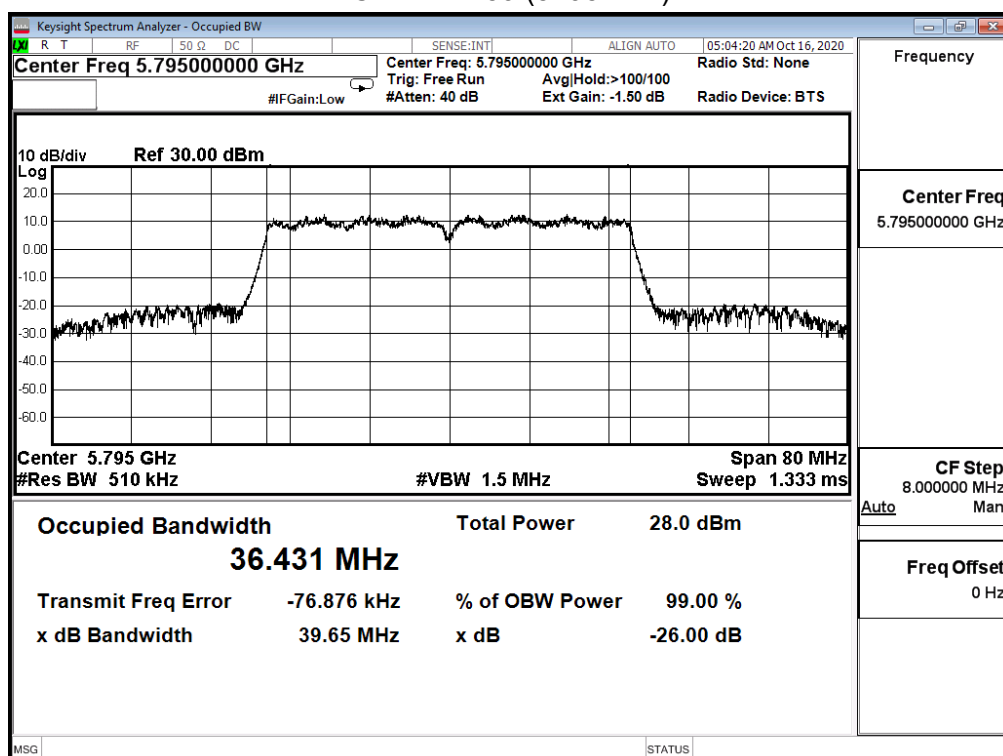
Channel 46 (5230MHz)



Channel 151 (5755MHz)



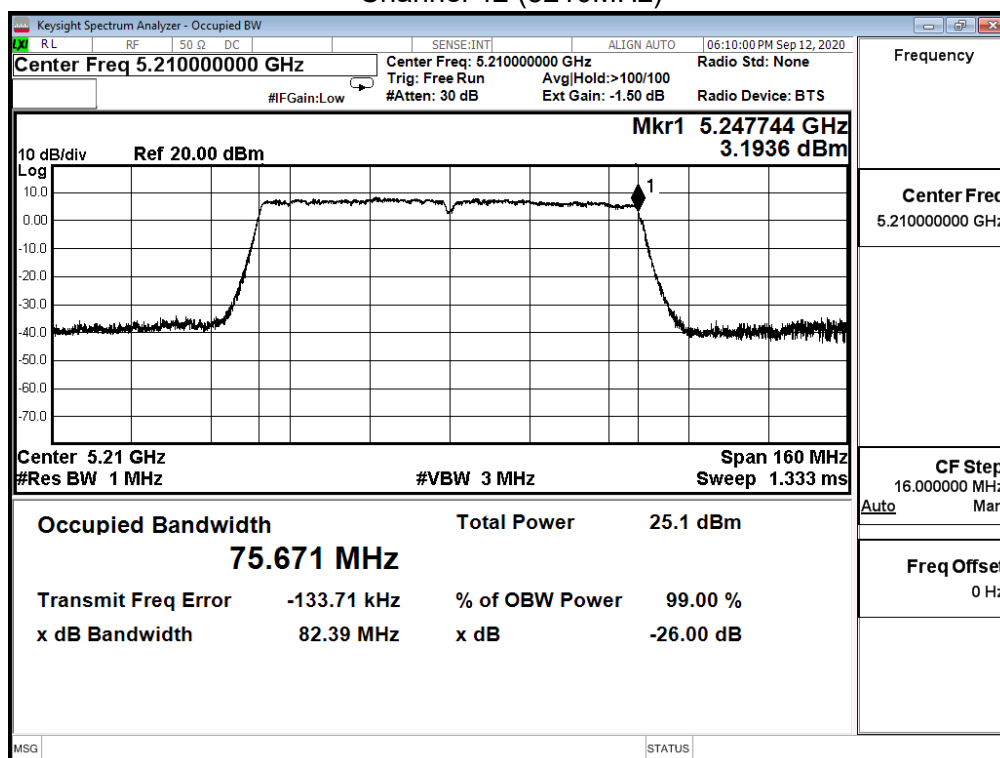
Channel 159 (5795MHz)



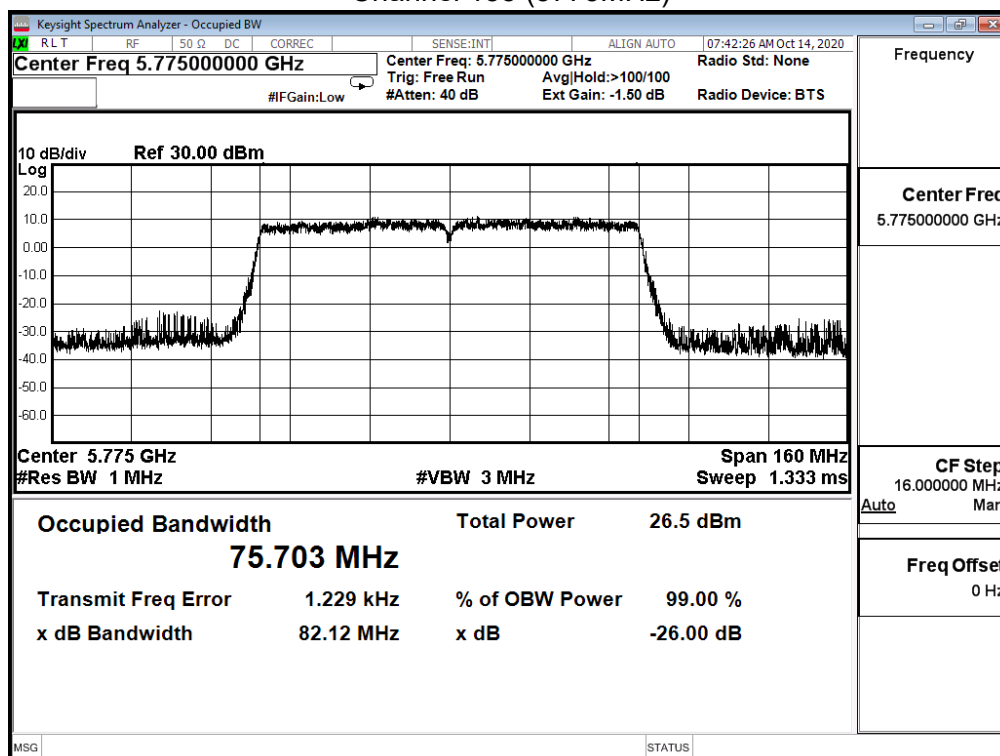
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/14	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_80M(ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	75.671	82.390	--	Pass
155	5775	75.703	N/A	--	Pass

Channel 42 (5210MHz)



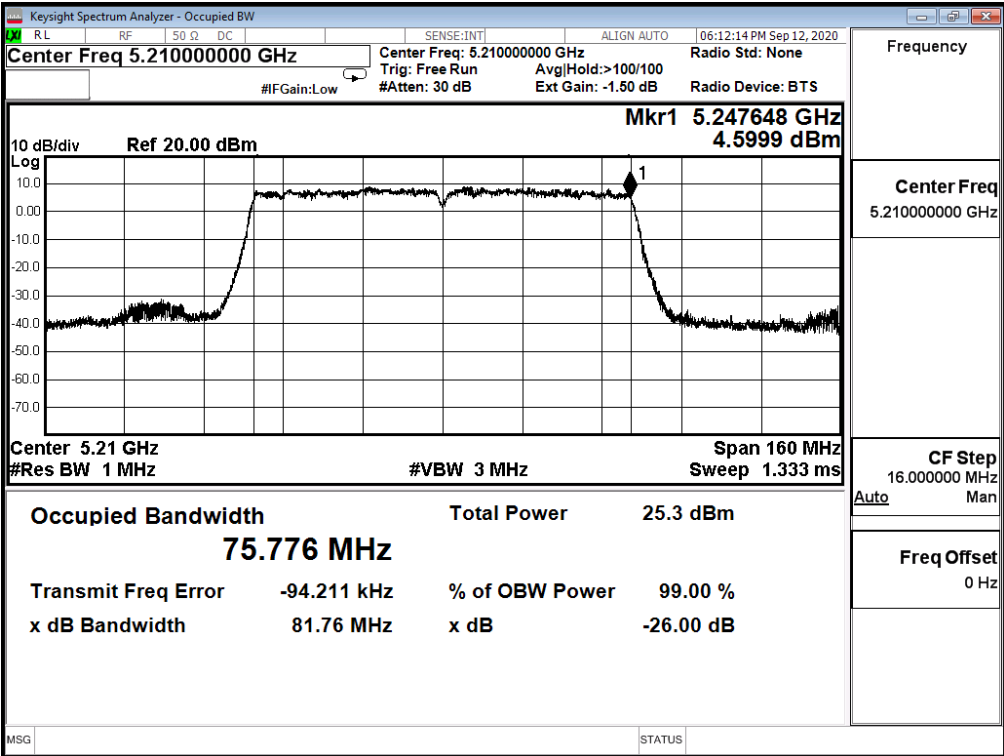
Channel 155 (5775MHz)



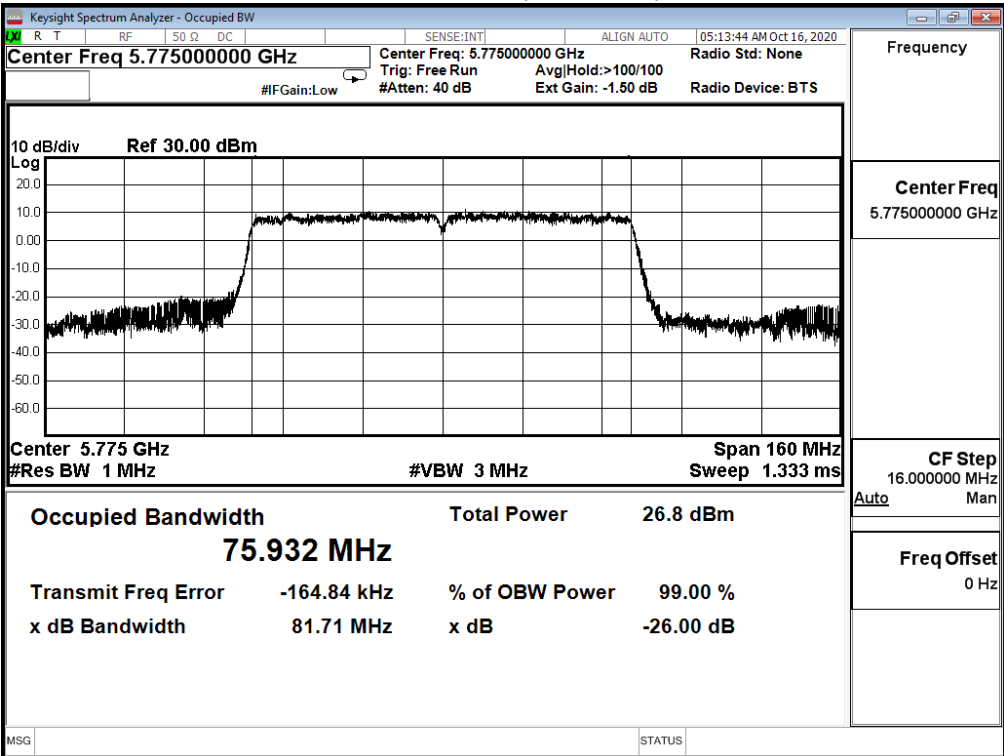
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_80M(ANT 3)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	75.776	81.760	--	Pass
155	5775	75.932	N/A	--	Pass

Channel 42 (5210MHz)



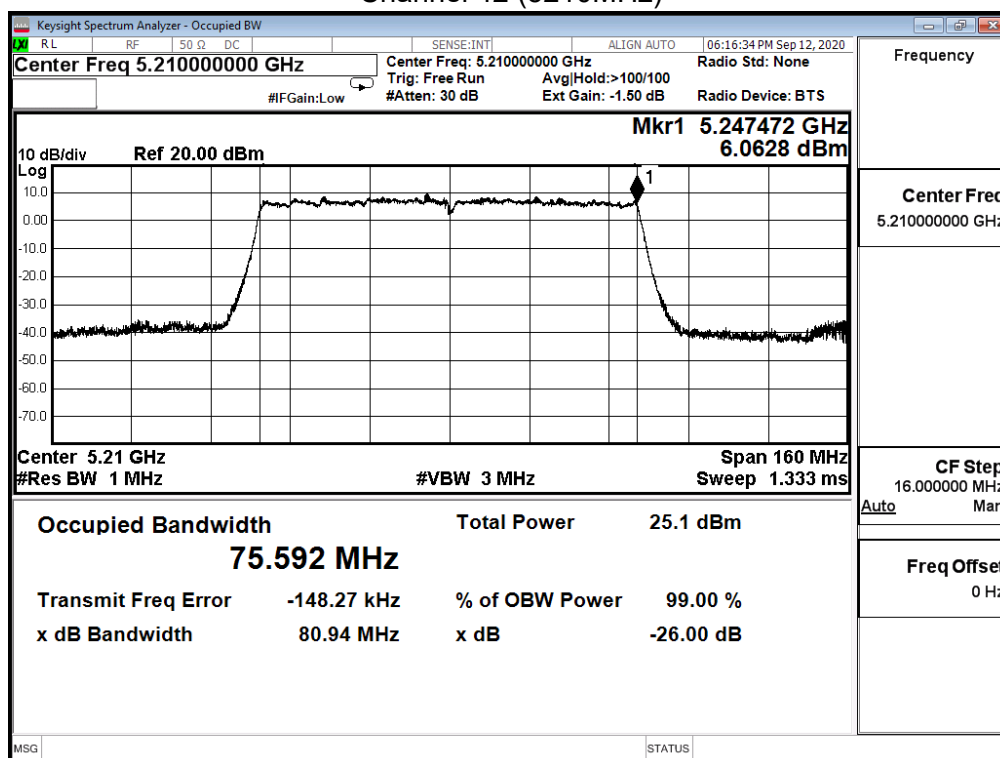
Channel 155 (5775MHz)



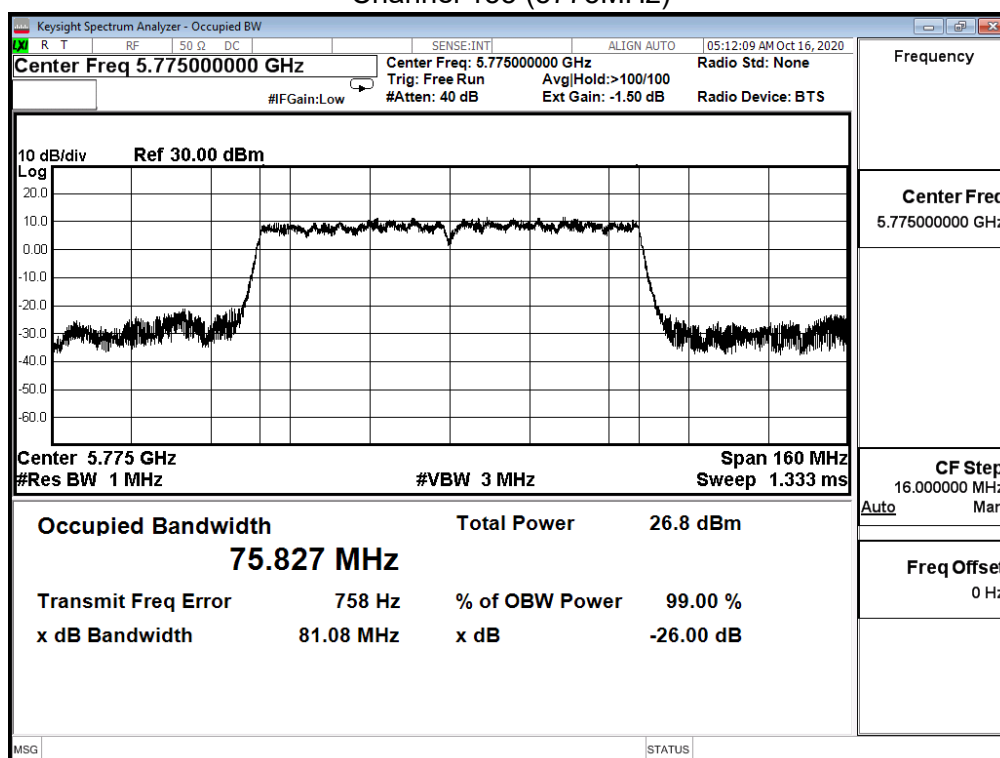
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_80M(ANT 4)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	75.592	80.940	--	Pass
155	5775	75.827	N/A	--	Pass

Channel 42 (5210MHz)



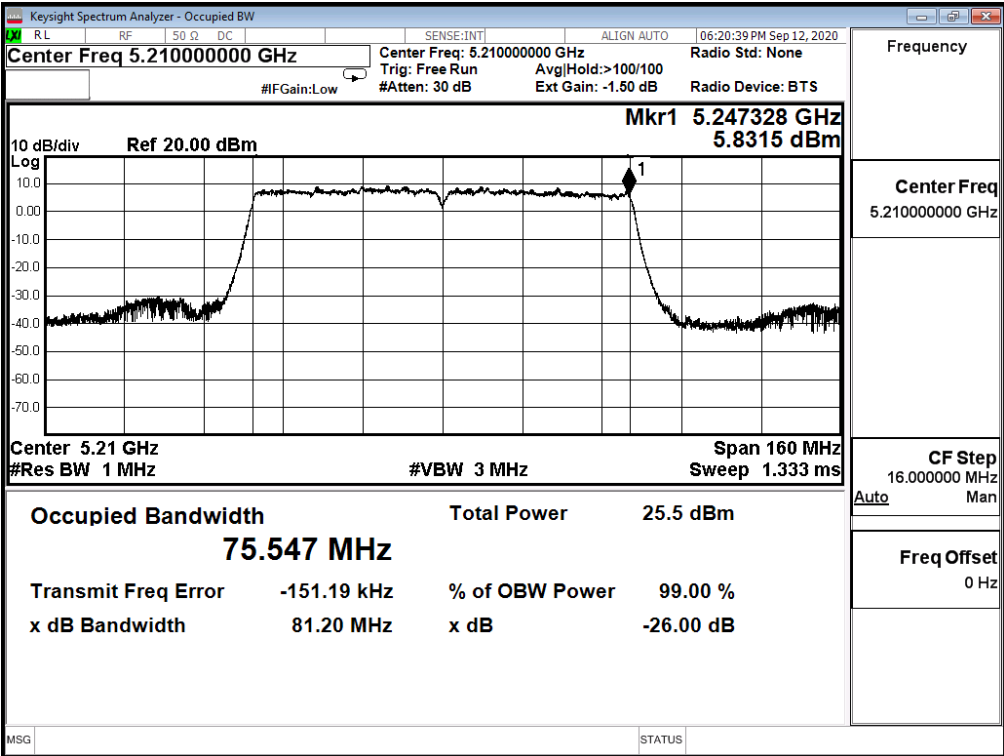
Channel 155 (5775MHz)



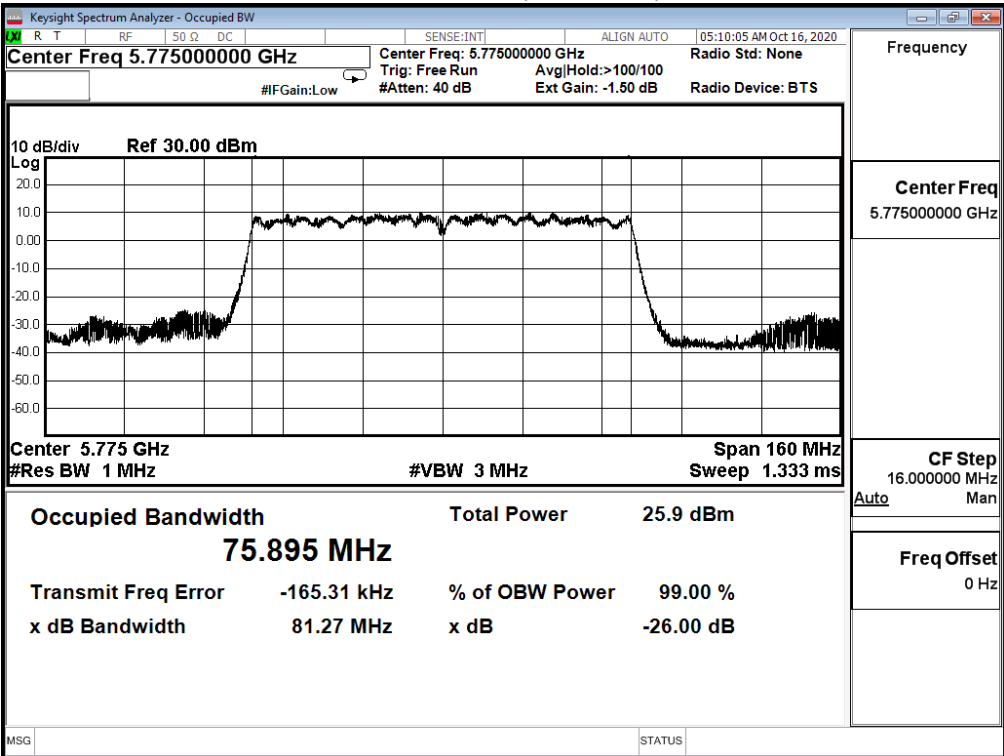
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ac_80M(ANT 5)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	75.547	81.200	--	Pass
155	5775	75.895	N/A	--	Pass

Channel 42 (5210MHz)



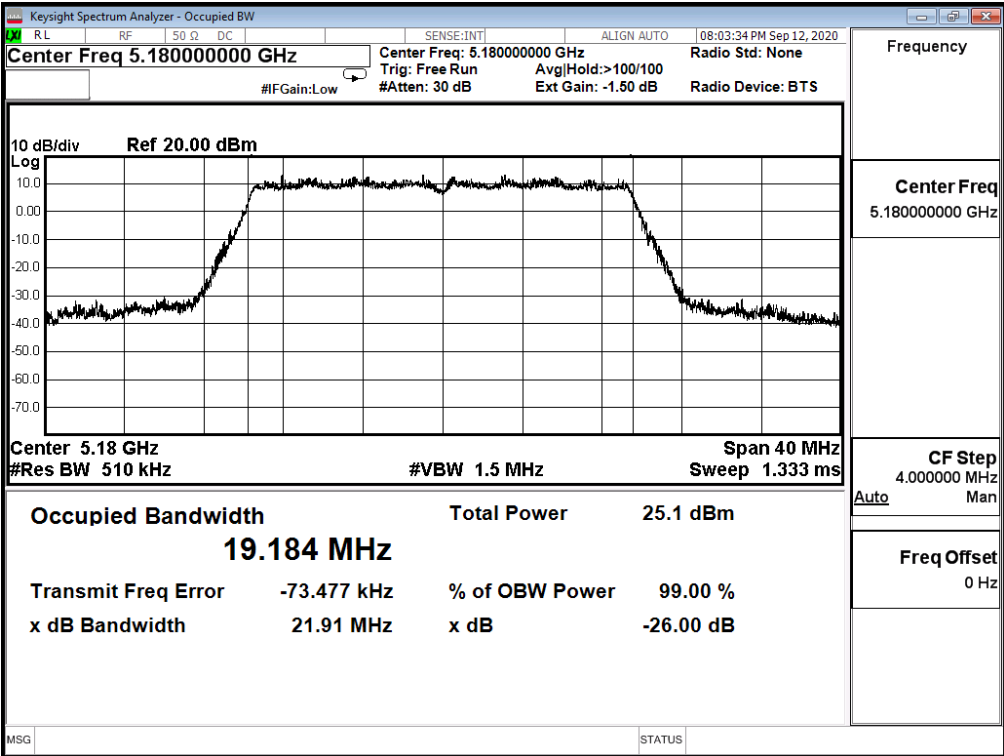
Channel 155 (5775MHz)



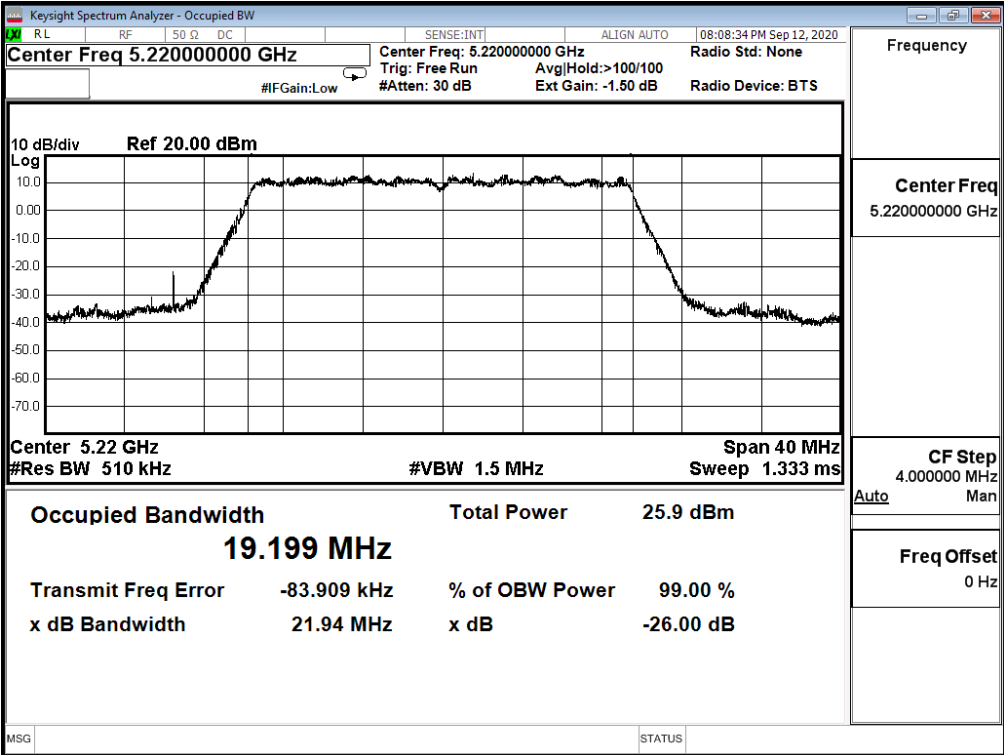
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/14	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ax_20M(ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	19.184	21.910	--	Pass
44	5220	19.199	21.940	--	Pass
48	5240	19.219	22.030	--	Pass
149	5745	19.193	N/A	--	Pass
157	5785	19.192		--	Pass
165	5825	19.231		--	Pass

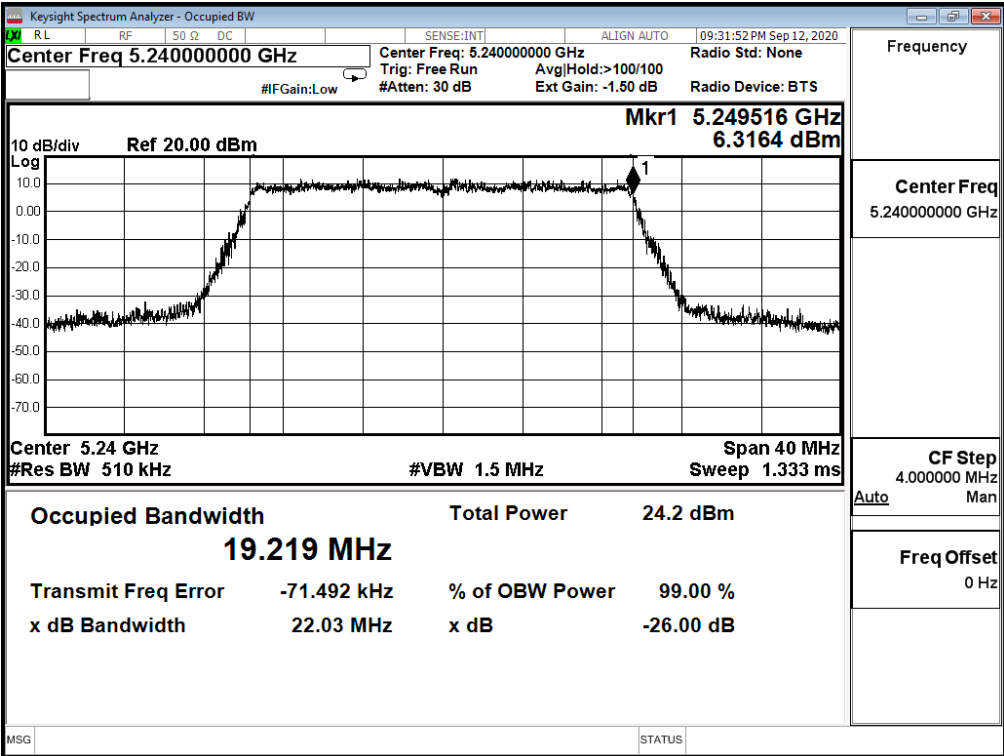
Channel 36 (5180MHz)



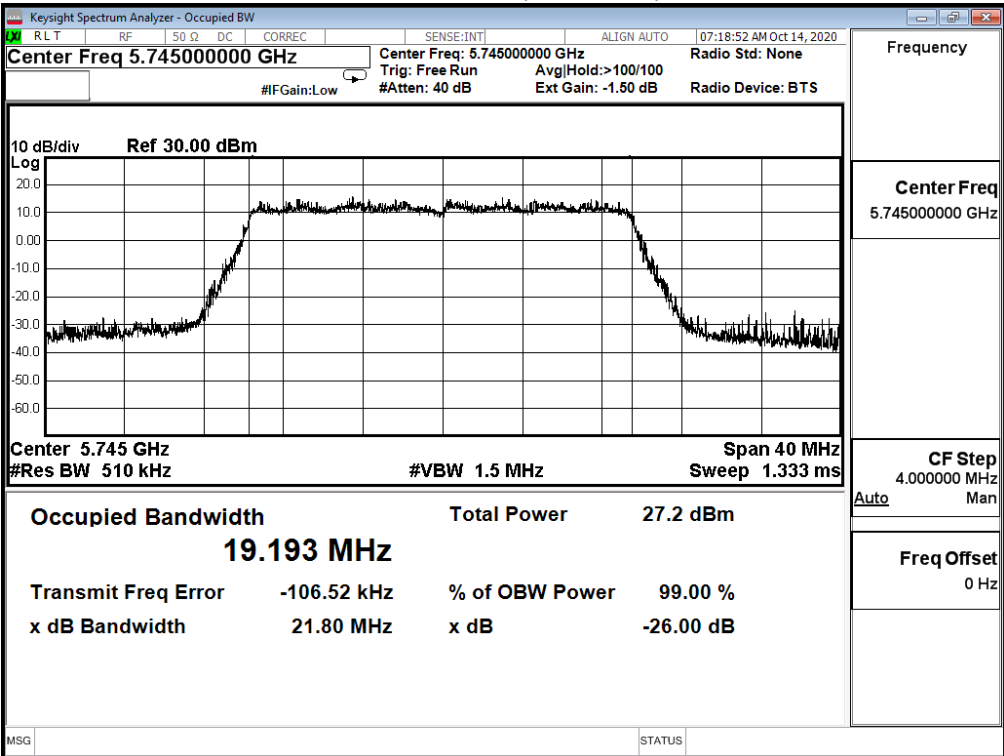
Channel 44 (5220MHz)



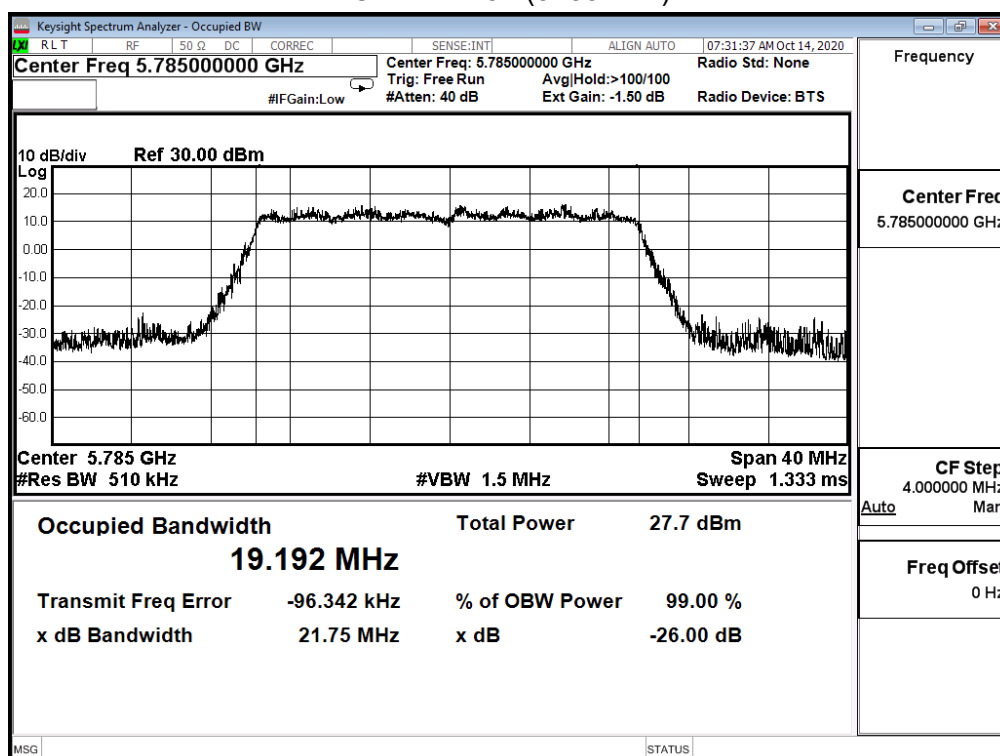
Channel 48 (5240MHz)



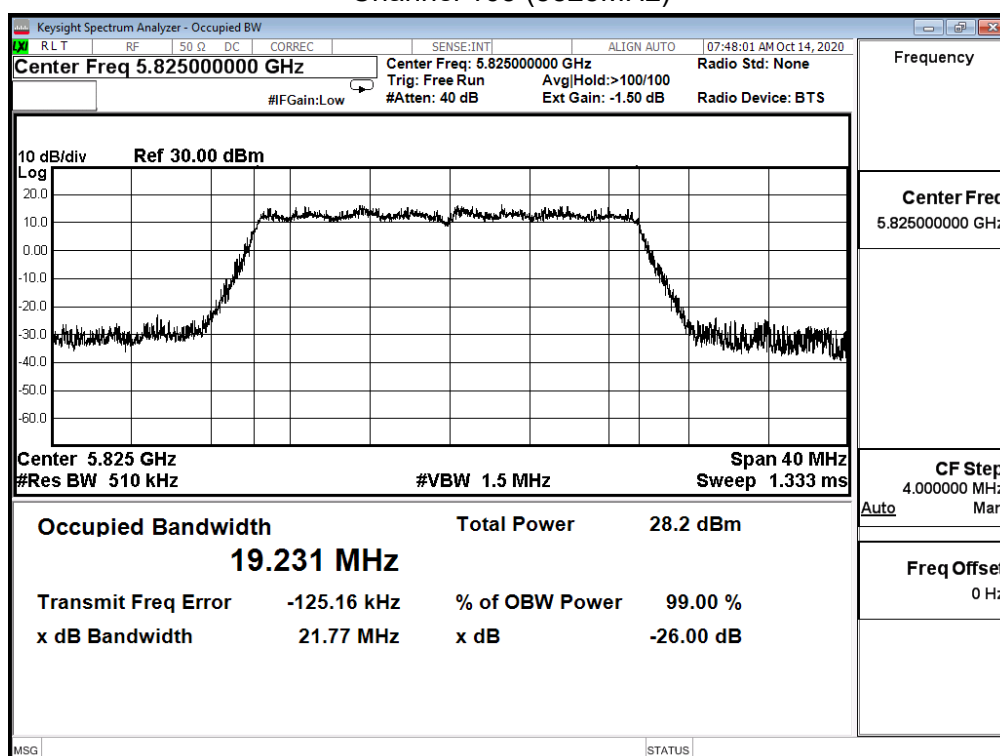
Channel 149 (5745MHz)



Channel 157 (5785MHz)



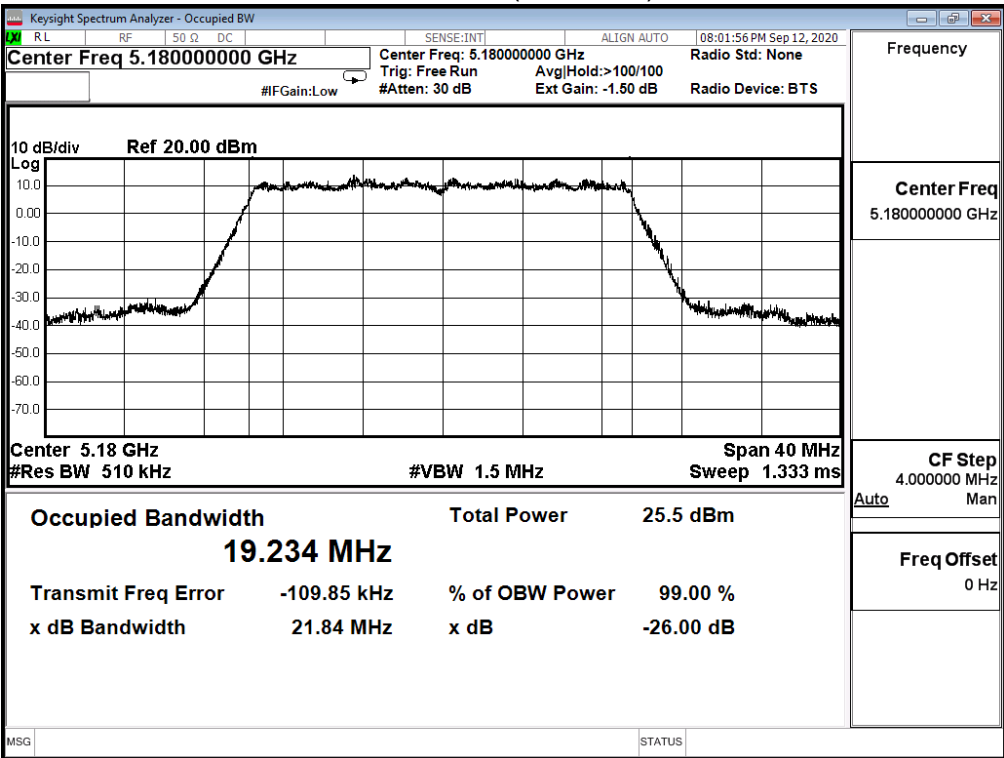
Channel 165 (5825MHz)



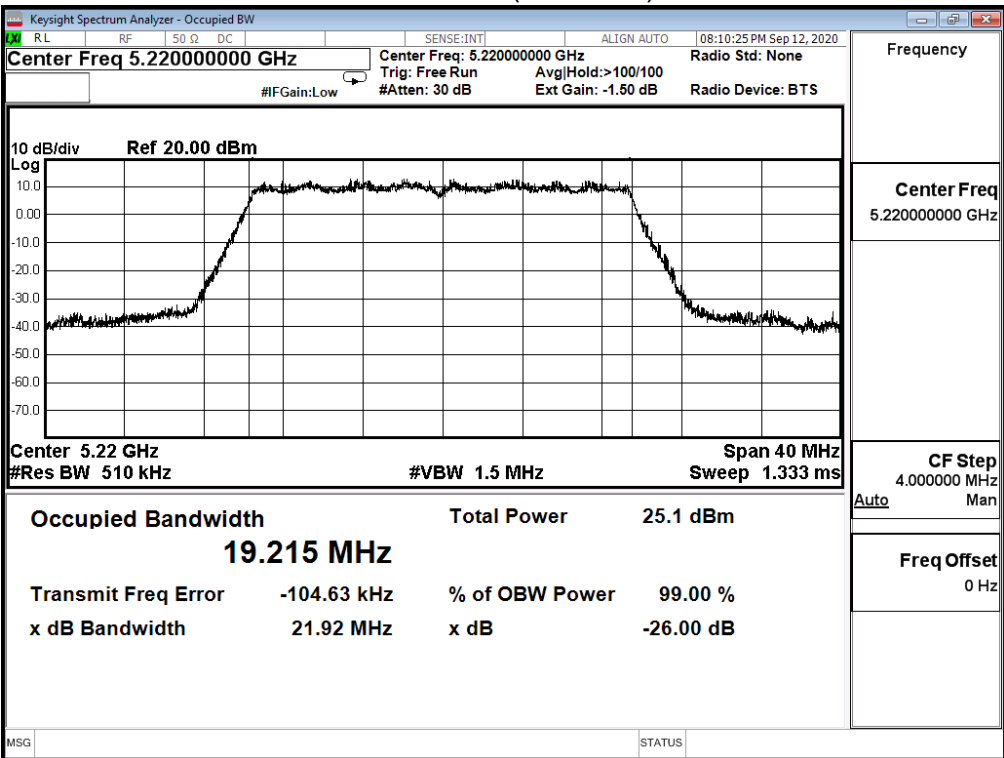
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ax_20M(ANT 3)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	19.234	21.840	--	Pass
44	5220	19.215	21.920	--	Pass
48	5240	19.207	21.930	--	Pass
149	5745	19.240	N/A	--	Pass
157	5785	19.244		--	Pass
165	5825	19.234		--	Pass

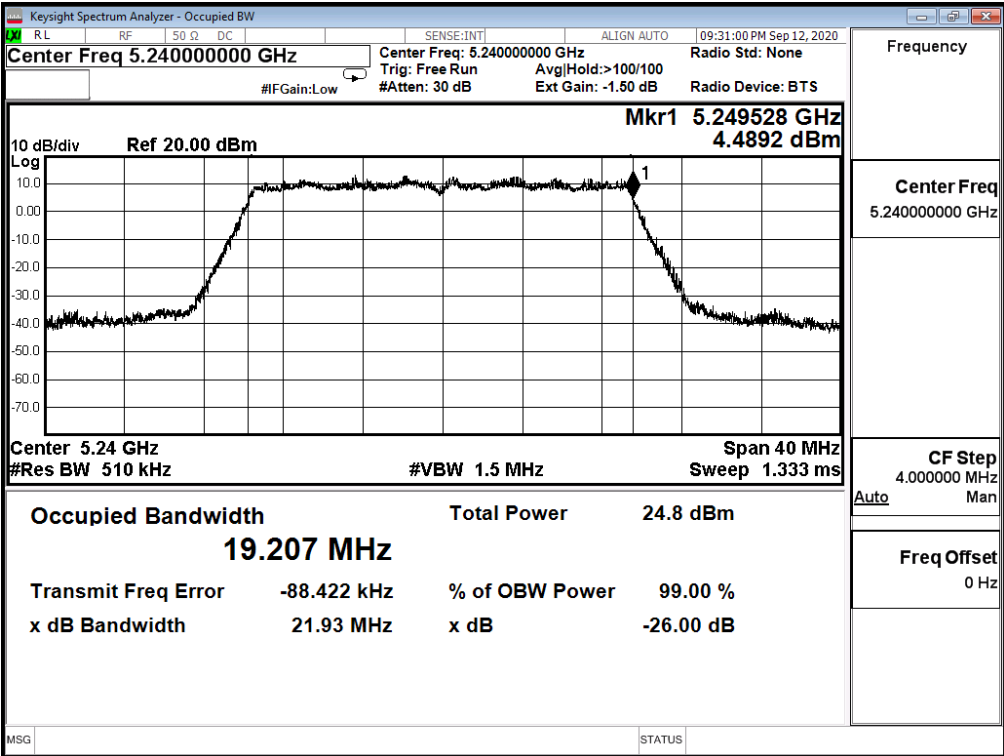
Channel 36 (5180MHz)



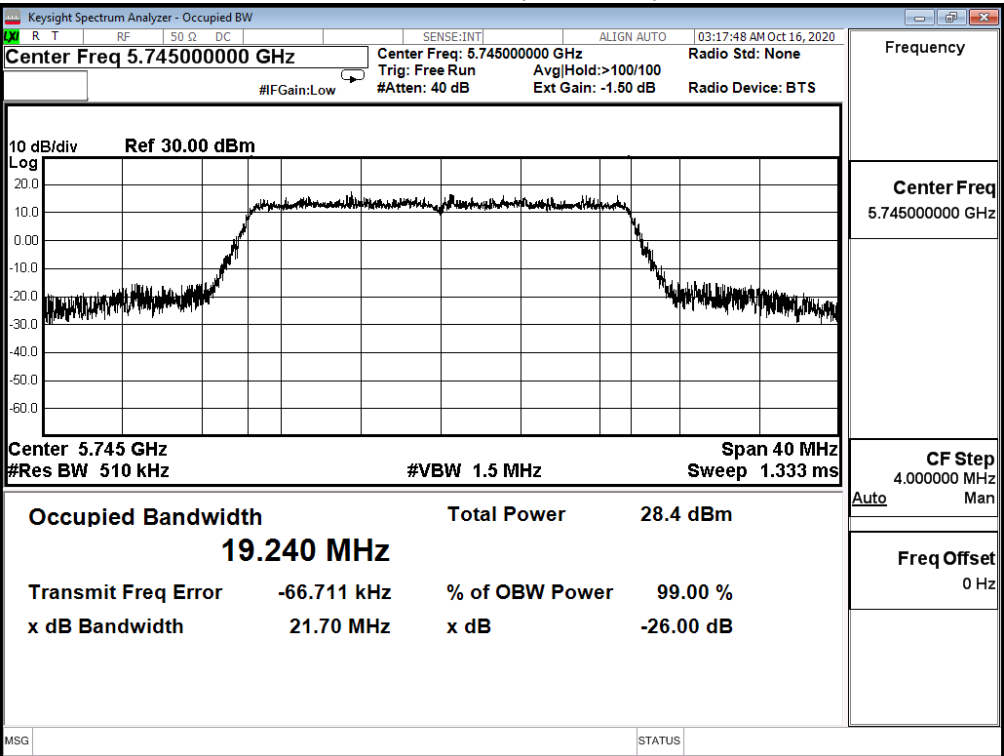
Channel 44 (5220MHz)



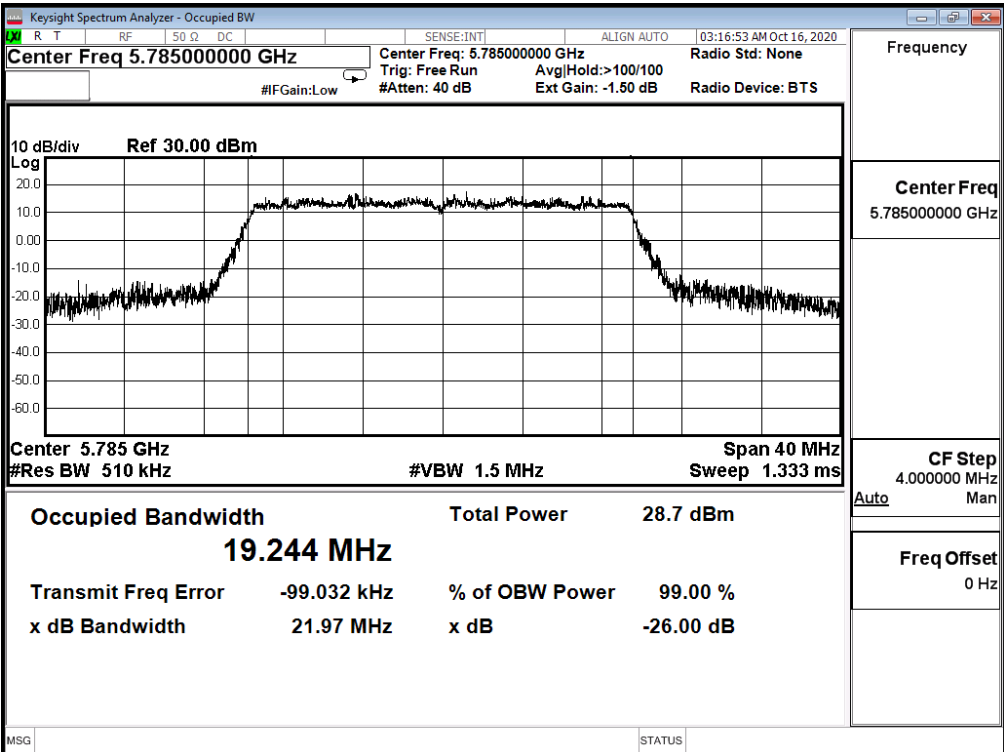
Channel 48 (5240MHz)



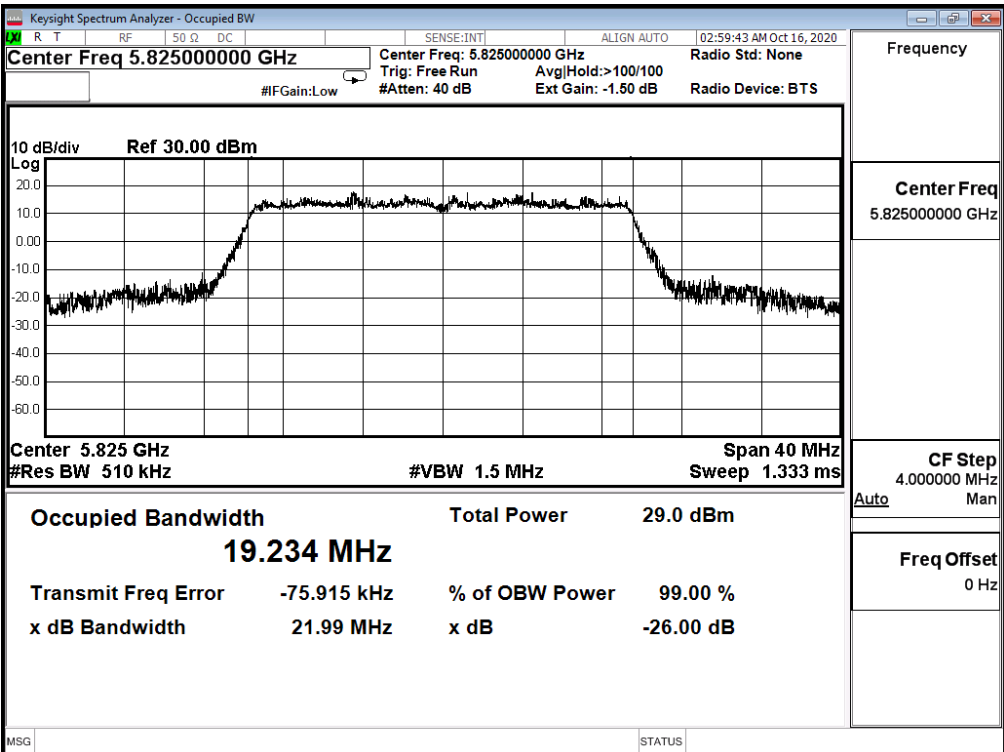
Channel 149 (5745MHz)



Channel 157 (5785MHz)



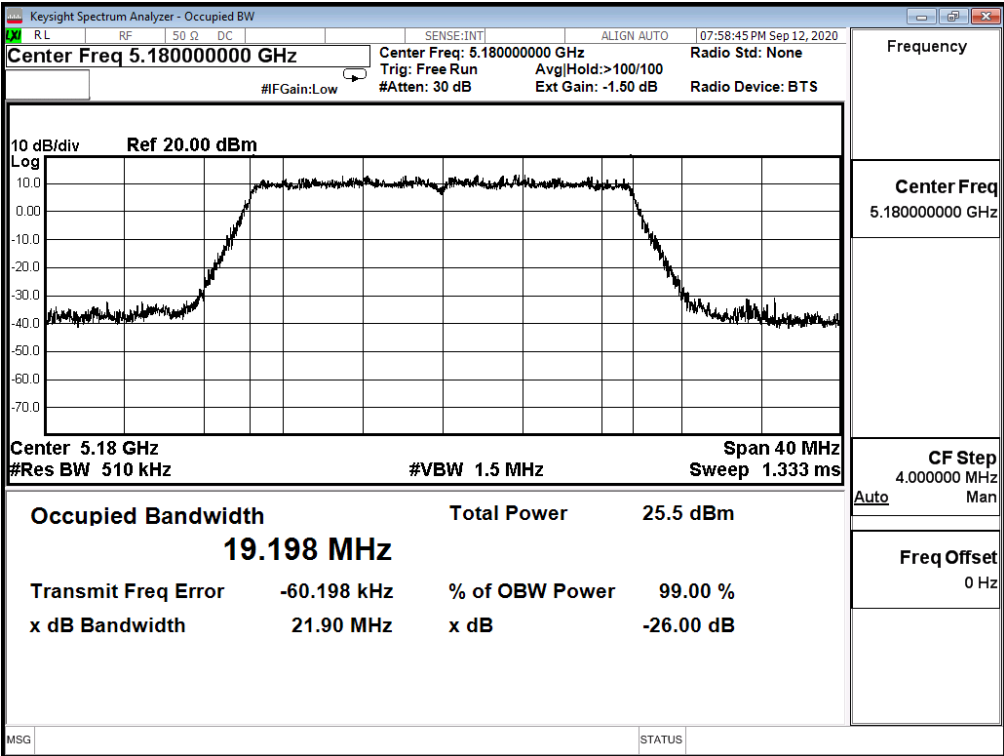
Channel 165 (5825MHz)



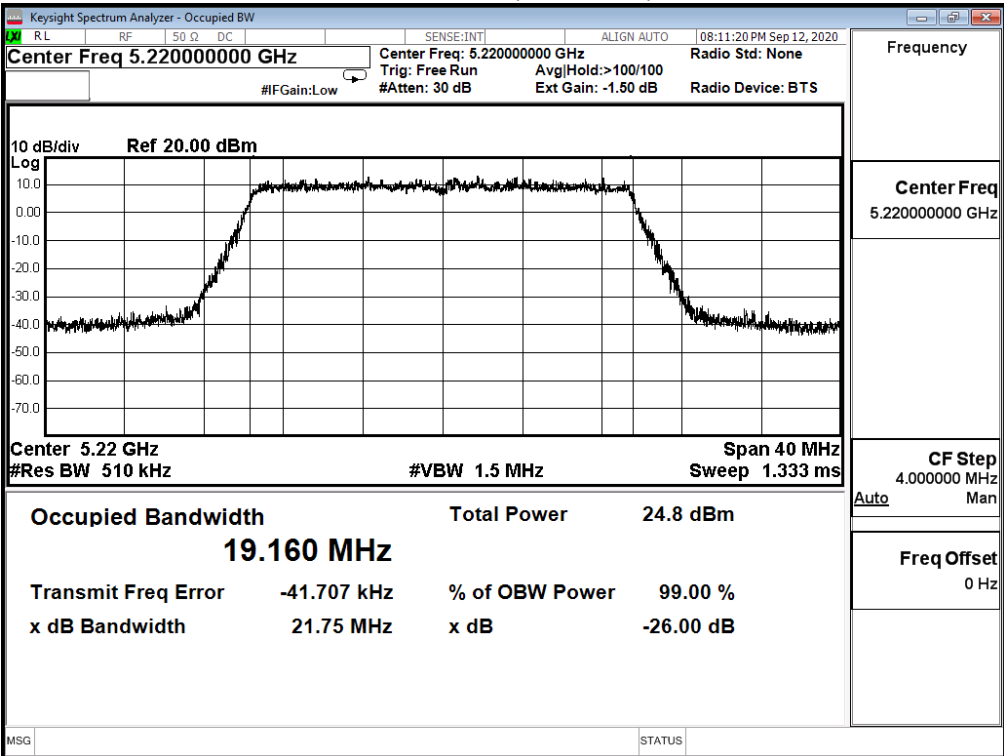
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ax_20M(ANT 4)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	19.198	21.900	--	Pass
44	5220	19.160	21.750	--	Pass
48	5240	19.202	21.840	--	Pass
149	5745	19.217	N/A	--	Pass
157	5785	19.205		--	Pass
165	5825	19.211		--	Pass

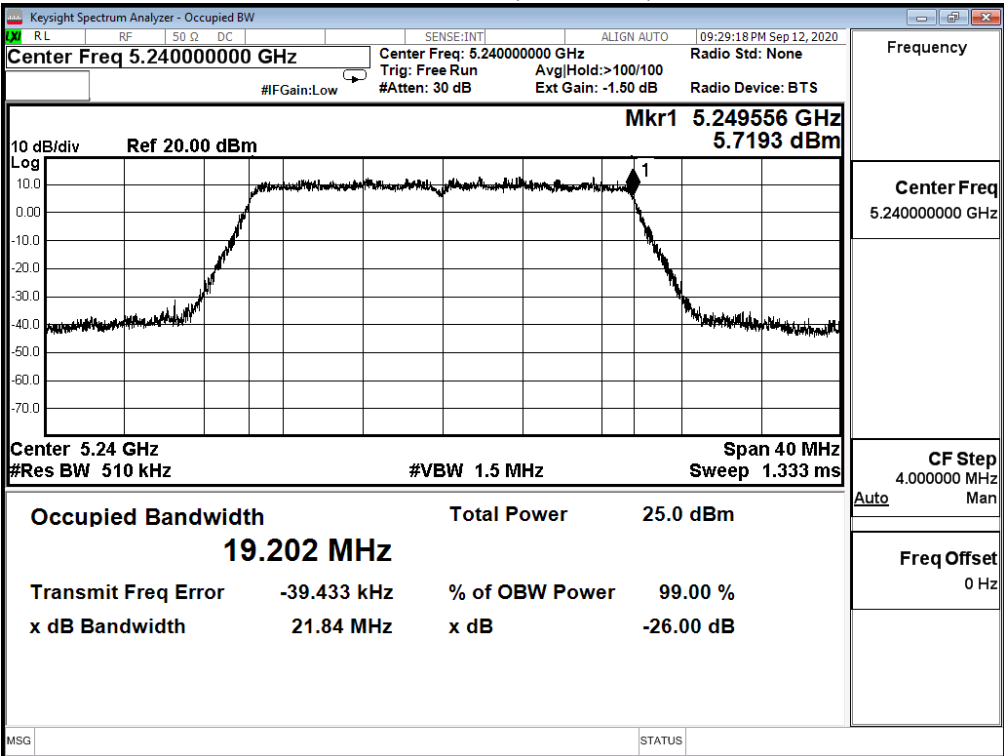
Channel 36 (5180MHz)



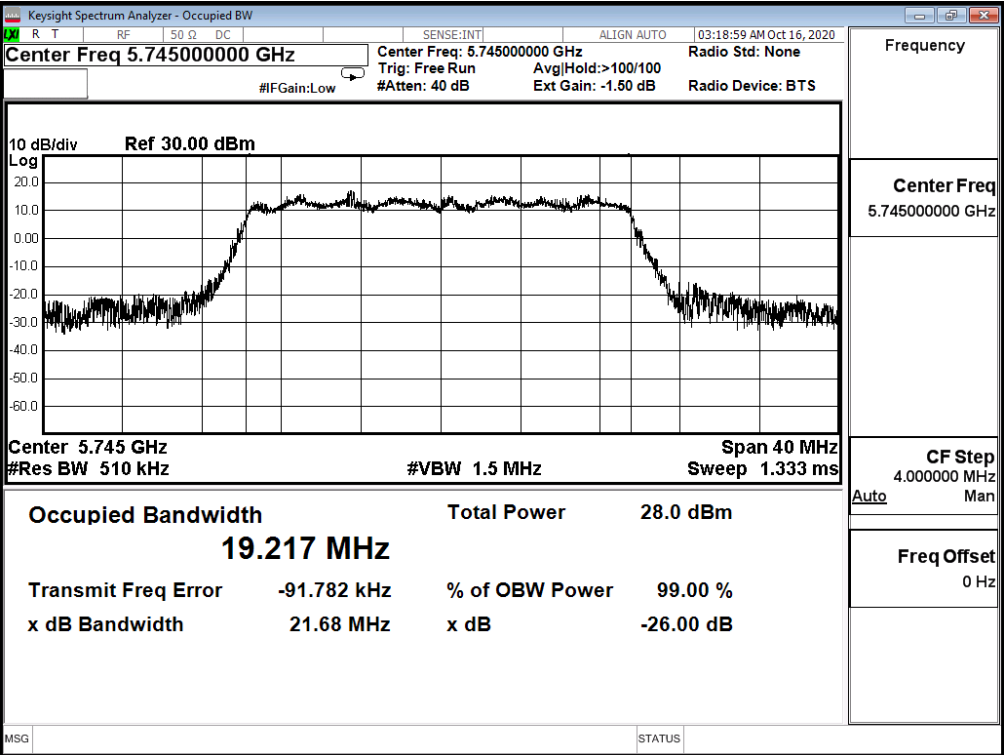
Channel 44 (5220MHz)



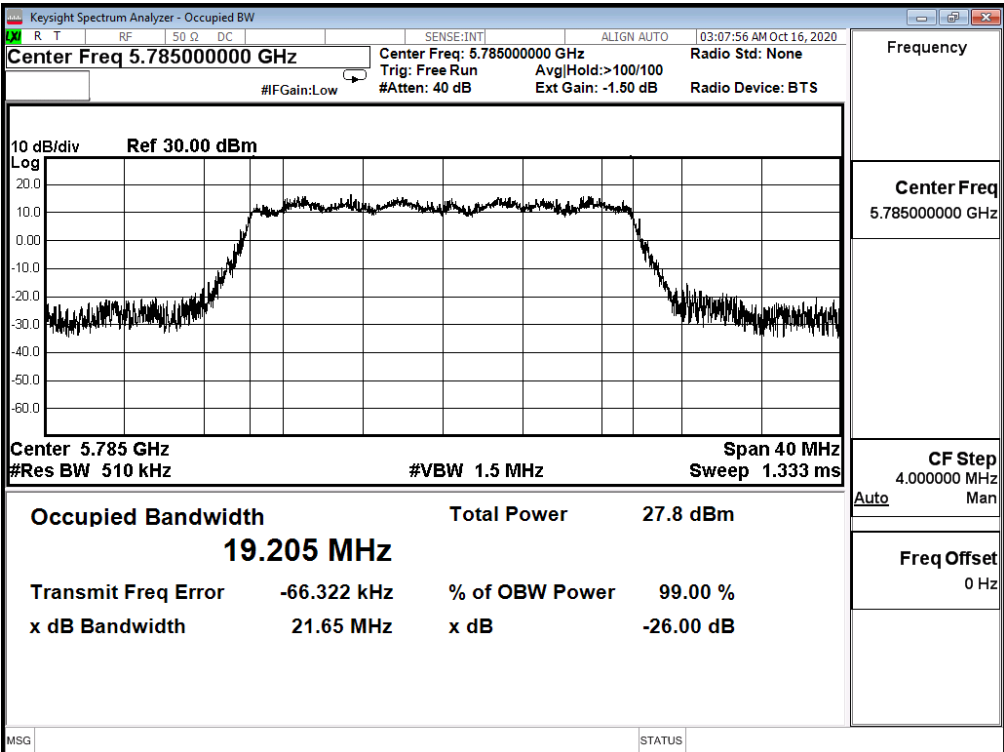
Channel 48 (5240MHz)



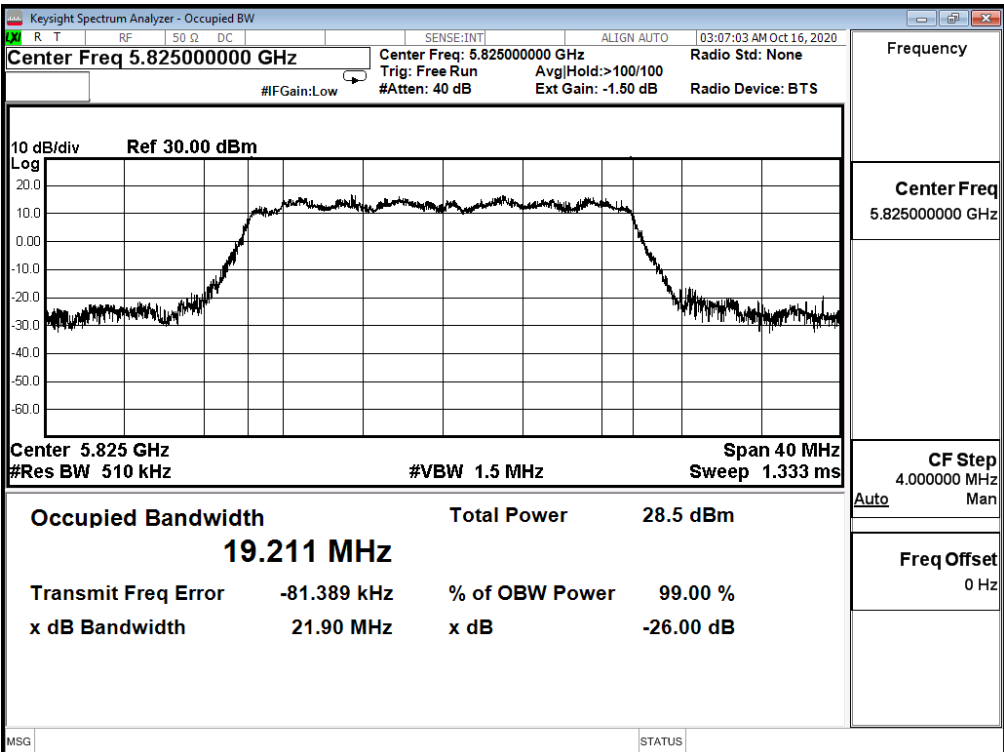
Channel 149 (5745MHz)



Channel 157 (5785MHz)



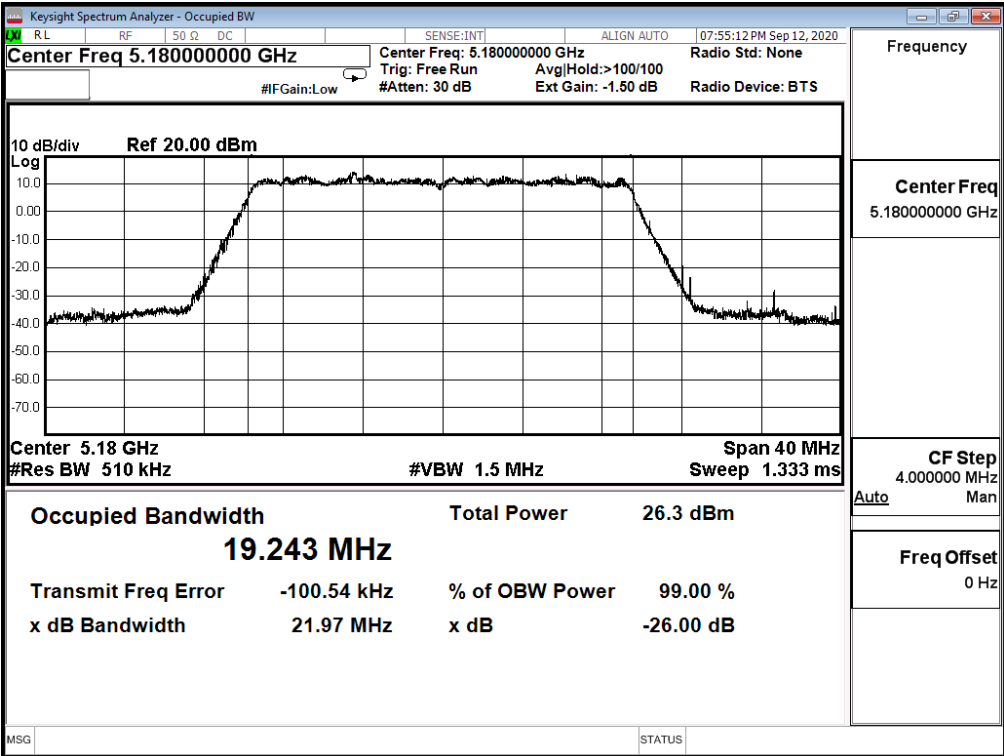
Channel 165 (5825MHz)



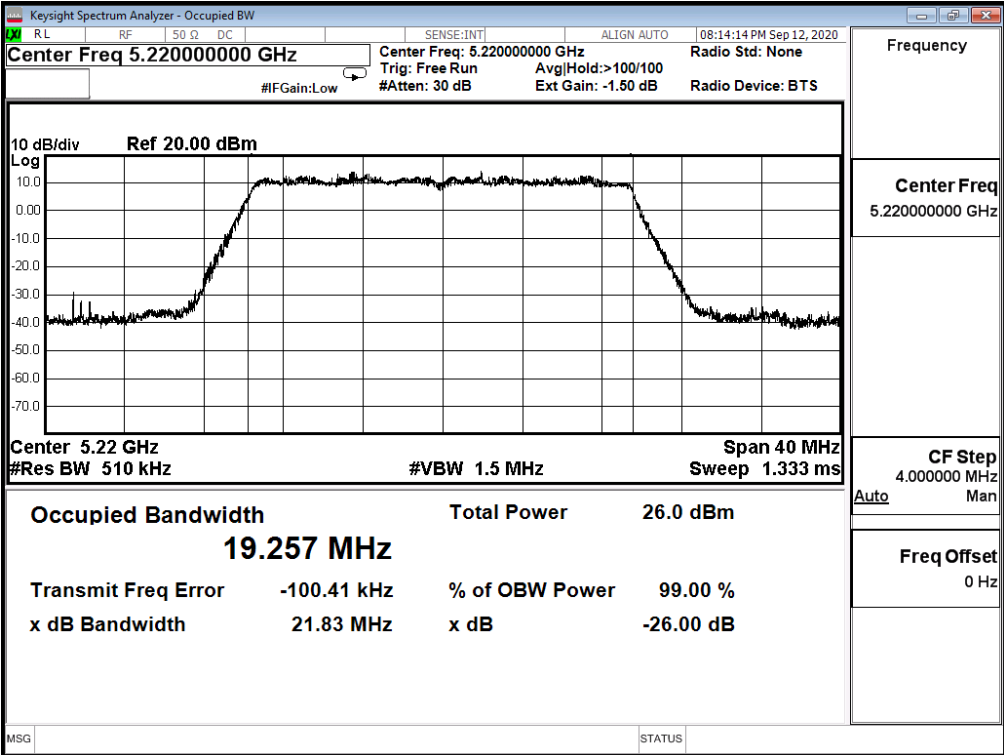
Product	DUAL BAND WI-FI 6 MESH EXTENDER DEVICE		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/09/12~2020/10/16	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	61.0%

IEEE 802.11ax_20M(ANT 5)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
36	5180	19.243	21.970	--	Pass
44	5220	19.257	21.830	--	Pass
48	5240	19.220	21.940	--	Pass
149	5745	19.160	N/A	--	Pass
157	5785	19.180		--	Pass
165	5825	19.166		--	Pass

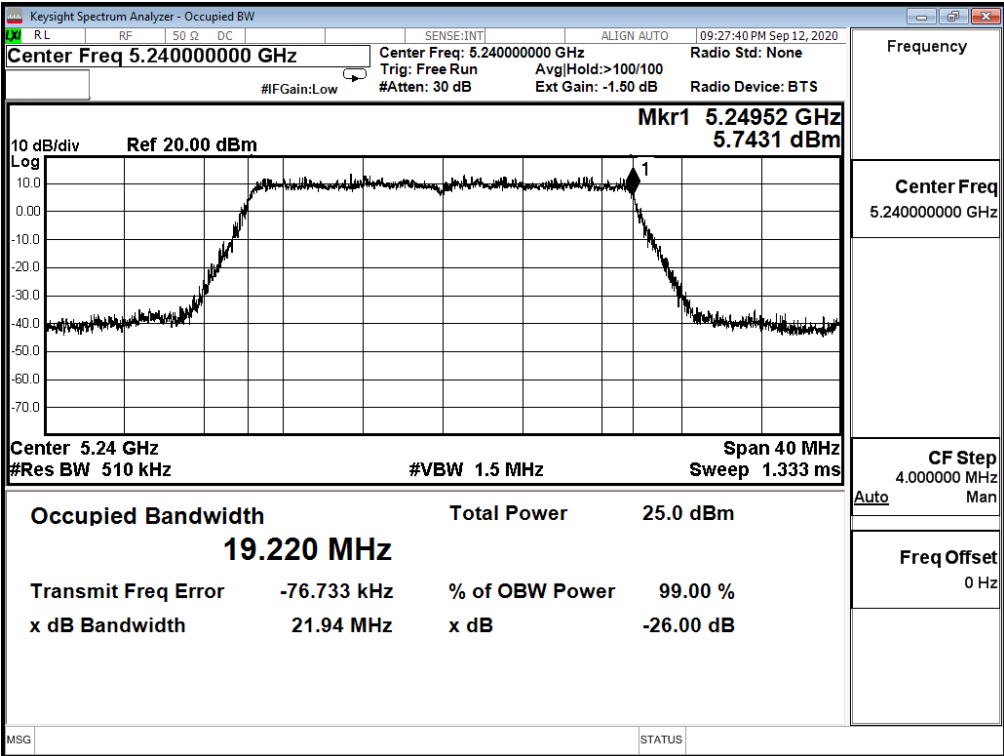
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 149 (5745MHz)

