

FCC TEST REPORT

FCC ID:2AY9T-45092VSB02

Report Number..... : ZKT-211213L6860-04

Date of Test..... Dec. 02, 2021 – Dec. 23, 2021

Date of issue : Dec. 23, 2021

Total number of pages 108

Test Result : PASS

Testing Laboratory..... : **Shenzhen ZKT Technology Co., Ltd.**

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Ranboda Technology Co., Ltd

Address : Building A20, Fengminggu Intelligent Industrial Park, 4048 Songbai Road, Fenghuang Street, Guangming New District, Shenzhen, China

Manufacturer's name : Shenzhen Ranboda Technology Co., Ltd

Address : Building A20, Fengminggu Intelligent Industrial Park, 4048 Songbai Road, Fenghuang Street, Guangming New District, Shenzhen, China

Test specification:

Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
KDB 789033 D02 V01r02

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-110_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document.

Product name : 4K Signage Box 2

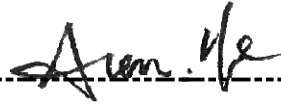
Trademark : N/A

Model/Type reference : 45092VSB02

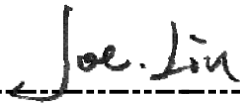
Ratings..... : AC 120V 60Hz

Testing procedure and testing location:**Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.**Address..... : 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature)



Reviewer (name + signature).....



Approved (name + signature)



Table of Contents

	Page
1. VERSION	5
2. SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3. GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	9
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	9
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	9
3.5EQUIPMENTS LIST FOR ALL TEST ITEMS	11
4. EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
4.1.2 TEST PROCEDURE	12
4.1.3 DEVIATION FROM TEST STANDARD	12
4.1.4 TEST SETUP	13
4.1.5 EUT OPERATING CONDITIONS	13
4.1.6 TEST RESULT	14
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	18
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 TEST RESULTS	19
5.POWER SPECTRAL DENSITY TEST	62
5.1 APPLIED PROCEDURES / LIMIT	62
5.2 TEST PROCEDURE	62
5.3 DEVIATION FROM STANDARD	62
5.4 TEST SETUP	62
5.5 EUT OPERATION CONDITIONS	63
5.6 TEST RESULT	63
6. -26 DB&6DBM EMISSION BANDWIDTH	75
6.1 APPLIED PROCEDURES / LIMIT	75
6.2 TEST PROCEDURE	75
6.3 DEVIATION FROM STANDARD	75
6.4 TEST SETUP	75
6.5 EUT OPERATION CONDITIONS	75

6.6 TEST RESULT	75
7.OUTPUT POWER TEST	87
7.1 APPLIED PROCEDURES/LIMIT	87
7.2DEVIATION FROM STANDARD	87
7.3TEST SETUP	87
7.4EUT OPERATION CONDITIONS	87
7.5 TEST RESULT	88
8.OUT OF BAND EDGEEMISSION	90
8.1TEST PROCEDURE	90
8.2DEVIATION FROM STANDARD	90
8.3TEST SETUP	90
8.4EUT OPERATION CONDITIONS	90
8.5 TEST RESULTS	90
9. FREQUENCY STABILITY MEASUREMENT	99
9.4 TEST RESULT	100
10.ANTENNA REQUIREMENT	107
10. TEST SETUP PHOTO	108
11. EUT CONSTRUCTIONAL DETAILS	108

1. VERSION

ReportNo.	Version	Description	Approved
ZKT-211213L6860-04	Rev.01	Initial issue of report	Dec. 23, 2021

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna requirement	PASS	
15.207	AC Power Line Conducted Emission	PASS	
15.407 (a) (b)	Spurious Radiated Emissions and Band Edge	PASS	
15.407 (e)/15.403(i)	6 dB bandwidth,26dB Emission Bandwidth& 99% Occupied Bandwidth	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407 (a)(1)(2)(3)	Maximum conducted output power	PASS	
15.407 (g)	Frequency Stability	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 % .

No.	tem	ncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃
9	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
10	Radiated disturbance(1GHz-6GHz)	U=4.9dB
11	Radiated disturbance(1GHz-18GHz)	U=5.0dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	4K Signage Box 2		
Model No.:	45092VSB02		
Sample(s) Status:	Engineer sample		
	IEEE802.11 WLAN mode supported		802.11a/n/ac(20MHz bandwidth) 802.11n/ac (40MHz bandwidth) 802.11ac (80MHz bandwidth)
	Data rate		802.11a: 54Mbps 802.11n: MCS0-MCS7 802.11ac:MCS0-MCS9
	Modulation		OFDM
	Band 1	Frequency Range	IEEE802.11 a: 5180-5240MHz IEEE802.11 n (HT20): 5180-5240MHz IEEE802.11 n (HT40): 5190-5230MHz IEEE802.11 ac (VHT20): 5180-5240MHz IEEE802.11 ac (VHT40): 5190-5230MHz IEEE802.11 ac (VHT80): 5210MHz
		Channels	IEEE802.11 a/ac /n: 4 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
	BAND 4	Frequency Range	IEEE802.11 a: 5745-5825 MHz IEEE802.11 n (HT20):5745-5825 MHz IEEE802.11 n (HT40):5755-5795 MHz IEEE802.11 ac (VHT20):5745-5825 MHz IEEE802.11 ac (VHT40):5755-5795 MHz IEEE802.11 ac (VHT80):5775MHz
		Channels	IEEE802.11 a/ac /n: 5 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
Antenna Type:	FPC antenna		
Antenna gain:	ANT1: 3dBi; ANT2: 3dBi MIMO: 6.01dBi		
Power supply:	AC 120V 60Hz		

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
36	5180	149	5745
40	5200	...	...
44	5220	157	5785
48	5240	...	...
		165	5825

802.11a/n/ac (20MHz) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
38	5190	151	5755

46	5230	159	5795
----	------	-----	------

802.11n / 802.11ac (40MHz BW) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
42	5210	155	5775

802.11n / 802.11ac (80MHz BW) Frequency / Channel Operations

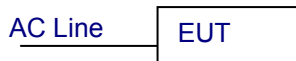
3.2 DESCRIPTION OF TEST MODES

Worst Case Configuration: transmitting both 2.4GHz mode and 5GHz mode

Description	5 GHz Emission
Antenna	MIMO
Channel	36
Operating Frequency (MHz)	802.11ac
Data Rate (Mbps)	OFDM/13.5Mbps
Mode	Band I-AC20

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Tablet PC	N/A	M10	N/A	EUT
2	adapter	/	INPUT:AC100-240V~ 50/60Hz OUTPUT:12V  1A	N/A	Provide by client

--	--	--	--	--	--

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 21, 2021	Sep. 22, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2021	Sep. 22, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Sep. 21, 2021	Sep. 22, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2021	Sep. 22, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2021	Sep. 22, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2021	Sep. 22, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2021	Sep. 22, 2022
8	Amplifier (1GHz-40GHz)	QUANJUDA	DLE-161	097	Sep. 21, 2021	Sep. 22, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2021	Sep. 22, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2021	Sep. 22, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2021	Sep. 22, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2021	Sep. 22, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2021	Sep. 22, 2022
16	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
17	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 21, 2021	Sep. 22, 2022
2	LISN	CYBERTEK	EM5040A	E185040014 9	Sep. 21, 2021	Sep. 22, 2022
3	Test Cable	N/A	C01	N/A	Sep. 21, 2021	Sep. 22, 2022
4	Test Cable	N/A	C02	N/A	Sep. 21, 2021	Sep. 22, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 21, 2021	Sep. 22, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2021	Sep. 22, 2022

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

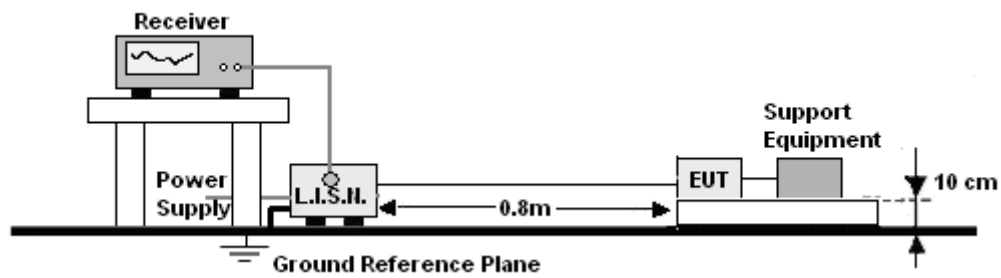
4.1.2 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.e.
8. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



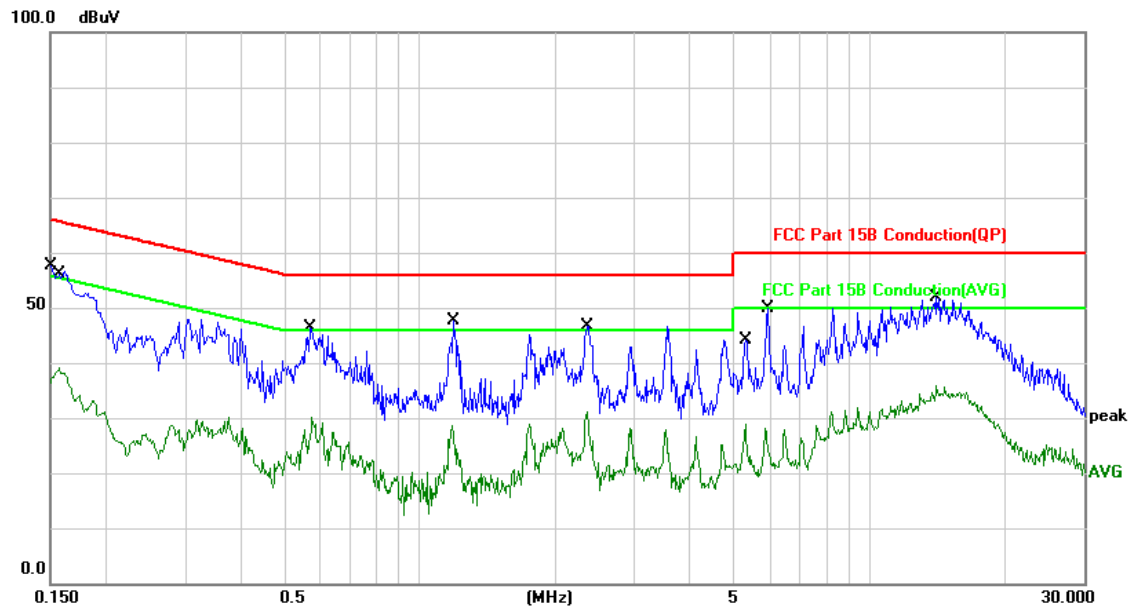
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		

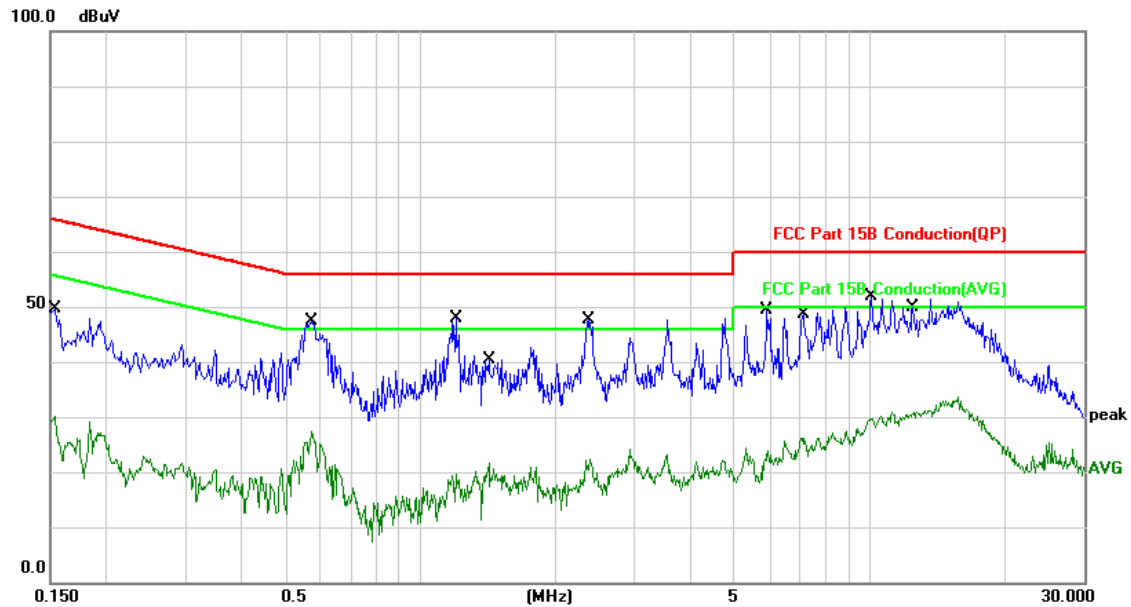


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1499	47.98	9.75	57.73	66.00	-8.27	QP	
2		0.1580	29.26	9.75	39.01	55.56	-16.55	AVG	
3		0.5700	36.48	9.84	46.32	56.00	-9.68	QP	
4		0.5740	20.17	9.84	30.01	46.00	-15.99	AVG	
5		1.1820	18.78	9.73	28.51	46.00	-17.49	AVG	
6		1.1900	38.00	9.73	47.73	56.00	-8.27	QP	
7		2.3500	37.04	9.63	46.67	56.00	-9.33	QP	
8		2.3500	21.52	9.63	31.15	46.00	-14.85	AVG	
9		5.2938	19.21	9.65	28.86	50.00	-21.14	AVG	
10		5.9299	40.13	9.64	49.77	60.00	-10.23	QP	
11	*	14.1019	42.08	9.71	51.79	60.00	-8.21	QP	
12		14.1019	26.14	9.71	35.85	50.00	-14.15	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1532	39.97	9.75	49.72	65.82	-16.10	QP	
2		0.1532	20.29	9.75	30.04	55.82	-25.78	AVG	
3		0.5740	37.49	9.84	47.33	56.00	-8.67	QP	
4		0.5740	17.64	9.84	27.48	46.00	-18.52	AVG	
5		1.2020	38.09	9.73	47.82	56.00	-8.18	QP	
6		1.4220	11.87	9.70	21.57	46.00	-24.43	AVG	
7		2.3660	37.89	9.63	47.52	56.00	-8.48	QP	
8		2.3940	12.78	9.64	22.42	46.00	-23.58	AVG	
9		5.9019	39.78	9.64	49.42	60.00	-10.58	QP	
10		7.0619	16.58	9.61	26.19	50.00	-23.81	AVG	
11	*	10.1019	42.17	9.76	51.93	60.00	-8.07	QP	
12		12.5699	21.16	9.76	30.92	50.00	-19.08	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

1. Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz. The interface cables and equipment position were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.
2. For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz.
3. For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.
4. For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.
5. KDB789033v02r01G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	$2400/F(\text{KHz})$	300
0.490~1.705	$24000/F(\text{KHz})$	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 metre to 1.5 metre (Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

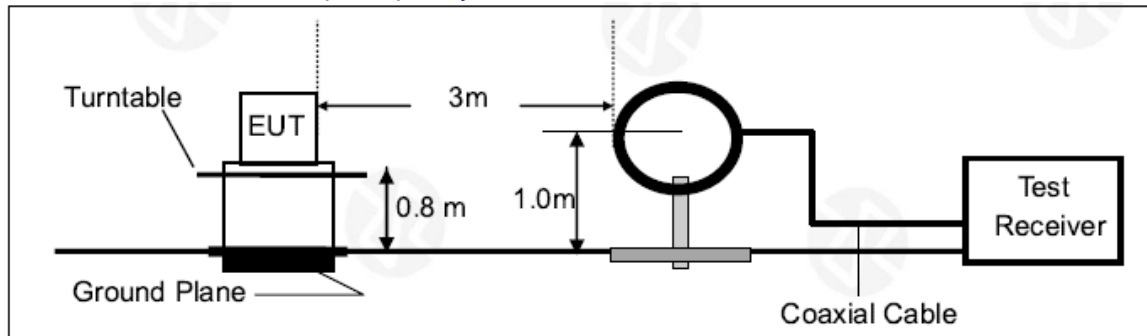
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

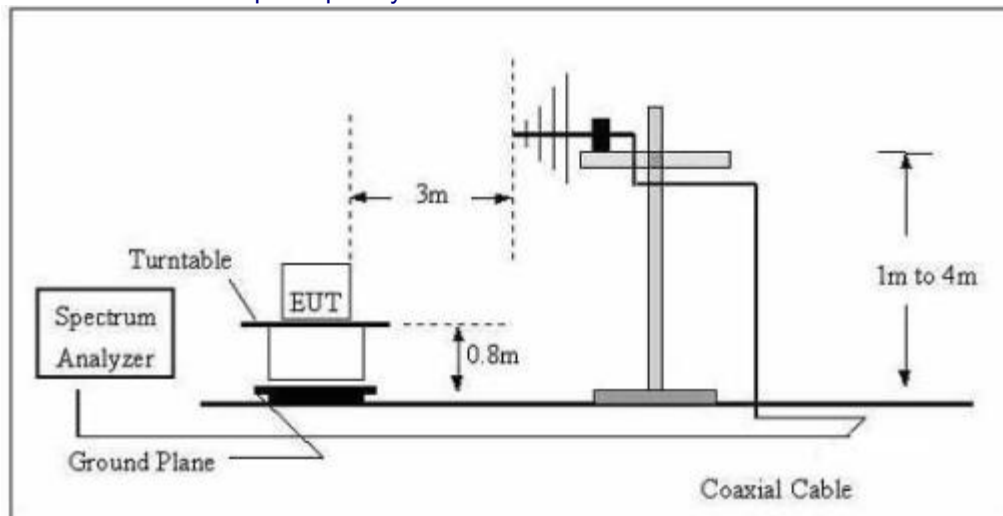
No deviation

4.2.4 TEST SETUP

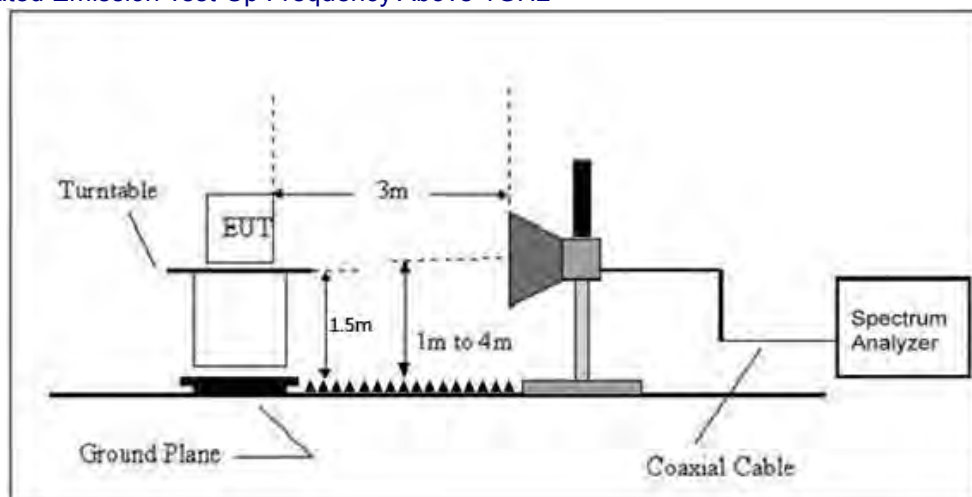
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

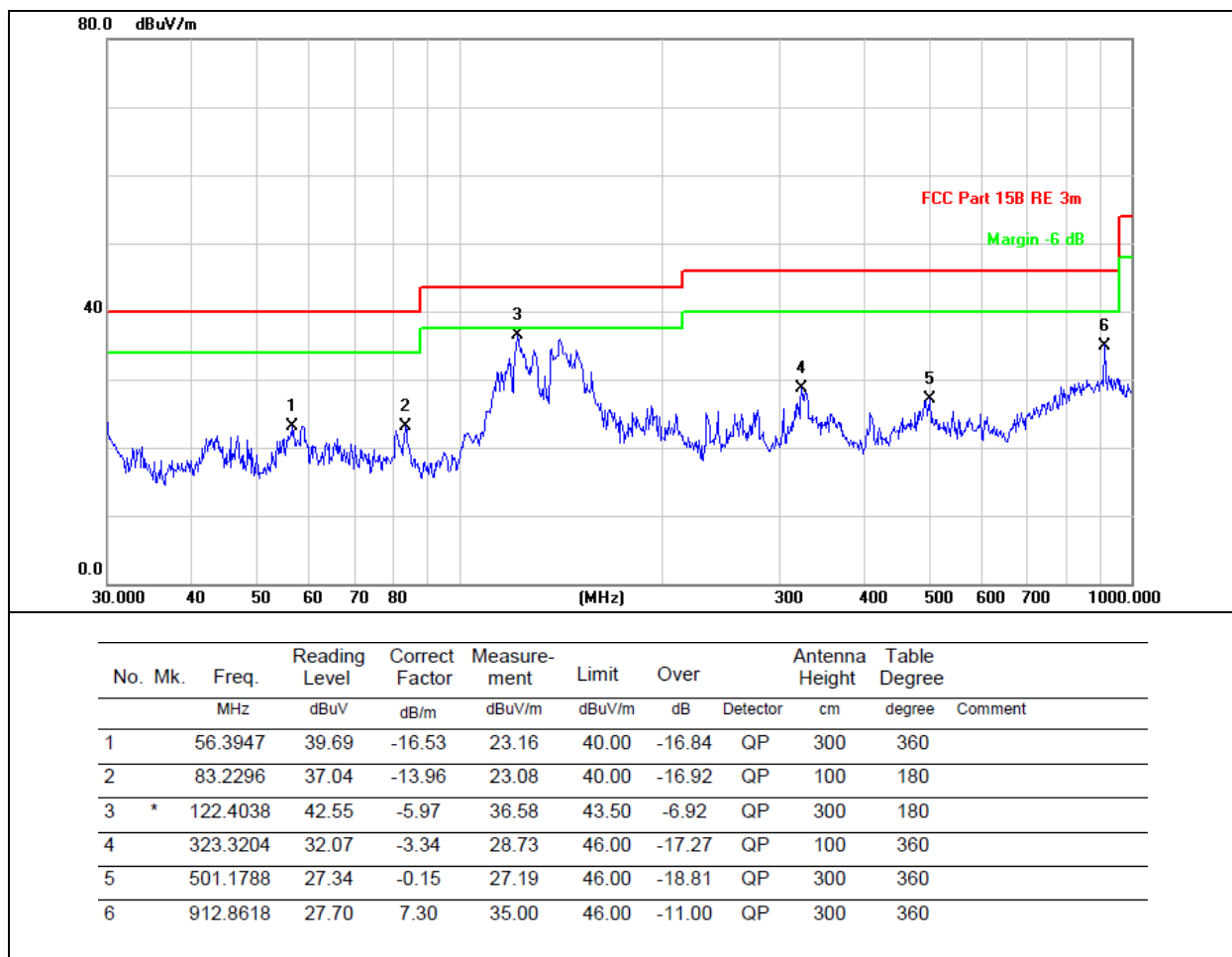
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

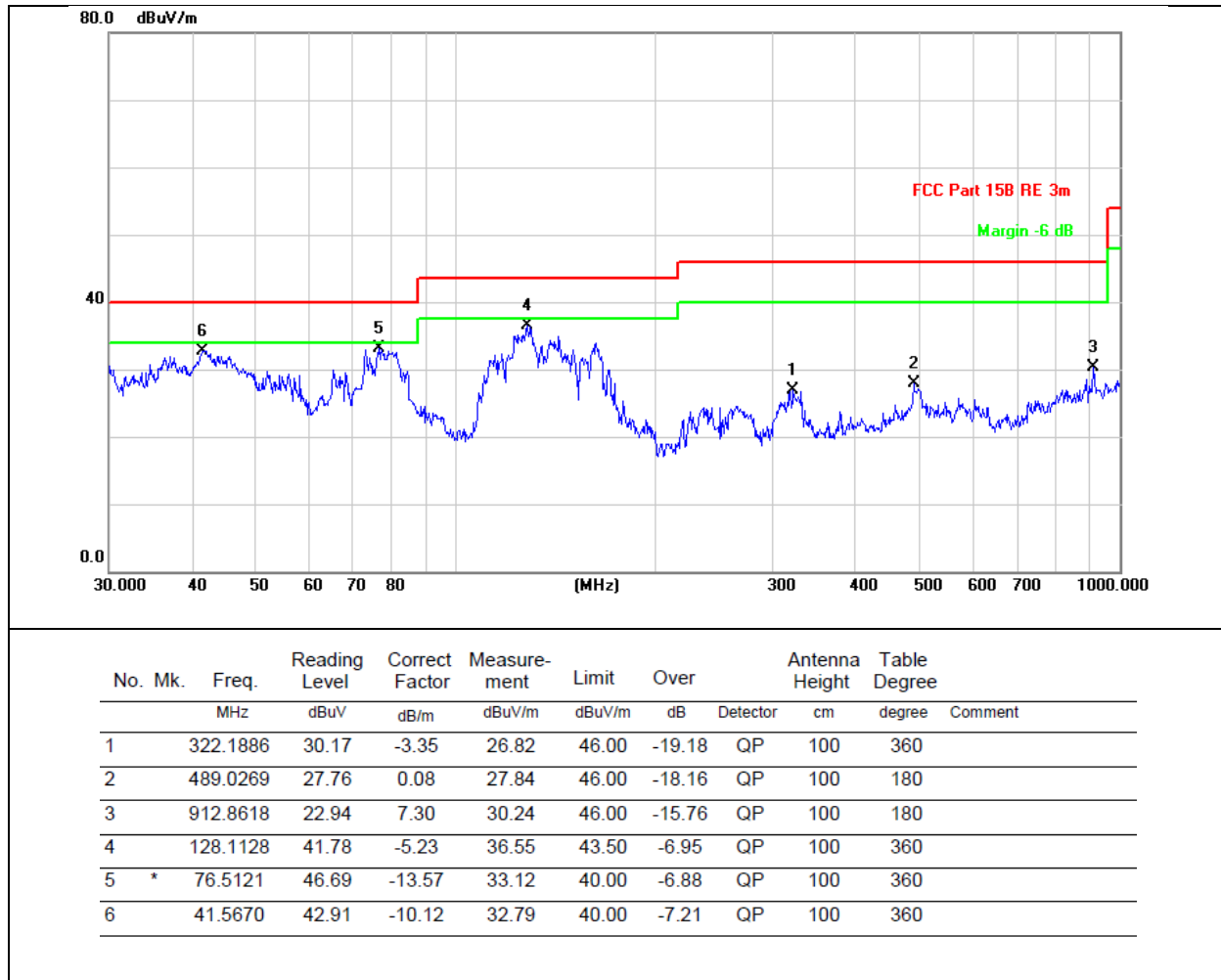
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case MIMO 802.11ax-VHT20-CH36

1GHz~40GHz

ANT1-802.11a

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.14	30.55	5.77	24.66	56.02	74.00	-17.98	PK
V	10360	45.00	30.55	5.77	24.66	44.88	54.00	-9.12	AV
V	15540	56.12	30.33	6.32	24.55	56.66	74.00	-17.34	PK
V	15540	46.29	30.33	6.32	24.55	46.83	54.00	-7.17	AV
V	20720	46.27	30.85	7.45	24.69	47.56	74.00	-26.44	PK
V	20720	46.18	30.85	7.45	24.69	47.47	54.00	-6.53	AV
H	10360	44.38	31.02	8.99	25.57	47.92	74.00	-26.08	PK
H	10360	46.09	31.02	8.99	25.57	49.63	54.00	-4.37	AV
H	15540	45.97	30.55	5.77	24.66	45.85	74.00	-28.15	PK
H	15540	43.62	30.55	5.77	24.66	43.50	54.00	-10.50	AV
H	20720	46.16	30.33	6.32	24.55	46.70	74.00	-27.30	PK
H	20720	45.83	30.33	6.32	24.55	46.37	54.00	-7.63	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	51.75	30.55	5.77	24.66	51.63	74.00	-22.37	PK
V	10400	43.51	30.55	5.77	24.66	43.39	54.00	-10.61	AV
V	15600	54.77	30.33	6.32	24.55	55.31	74.00	-18.69	PK
V	15600	47.19	30.33	6.32	24.55	47.73	54.00	-6.27	AV
V	20800	45.69	30.85	7.45	24.69	46.98	74.00	-27.02	PK
V	20800	44.74	30.85	7.45	24.69	46.03	54.00	-7.97	AV
H	10400	44.26	31.02	8.99	25.57	47.80	74.00	-26.20	PK
H	10400	45.41	31.02	8.99	25.57	48.95	54.00	-5.05	AV
H	15600	43.98	30.55	5.77	24.66	43.86	74.00	-30.14	PK
H	15600	44.50	30.55	5.77	24.66	44.38	54.00	-9.62	AV
H	20800	45.44	30.33	6.32	24.55	45.98	74.00	-28.02	PK
H	20800	44.13	30.33	6.32	24.55	44.67	54.00	-9.33	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.51	30.55	5.77	24.66	56.39	74.00	-17.61	PK
V	10480	44.75	30.55	5.77	24.66	44.63	54.00	-9.37	AV
V	15720	56.79	30.33	6.32	24.55	57.33	74.00	-16.67	PK
V	15720	46.75	30.33	6.32	24.55	47.29	54.00	-6.71	AV
V	20960	46.52	30.85	7.45	24.69	47.81	74.00	-26.19	PK
V	20960	44.54	30.85	7.45	24.69	45.83	54.00	-8.17	AV
H	10480	45.50	31.02	8.99	25.57	49.04	74.00	-24.96	PK
H	10480	46.46	31.02	8.99	25.57	50.00	54.00	-4.00	AV
H	15720	46.33	30.55	5.77	24.66	46.21	74.00	-27.79	PK
H	15720	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
H	20960	44.13	30.33	6.32	24.55	44.67	74.00	-29.33	PK
H	20960	46.53	30.33	6.32	24.55	47.07	54.00	-6.93	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	58.52	30.55	5.77	24.66	58.40	74.00	-15.60	PK
V	11490	45.55	30.55	5.77	24.66	45.43	54.00	-8.57	AV
V	17235	56.09	30.33	6.32	24.55	56.63	74.00	-17.37	PK
V	17235	44.98	30.33	6.32	24.55	45.52	54.00	-8.48	AV
V	22980	45.42	30.85	7.45	24.69	46.71	74.00	-27.29	PK
V	22980	45.74	30.85	7.45	24.69	47.03	54.00	-6.97	AV
H	11490	44.05	31.02	8.99	25.57	47.59	74.00	-26.41	PK
H	11490	44.30	31.02	8.99	25.57	47.84	54.00	-6.16	AV
H	17235	45.08	30.55	5.77	24.66	44.96	74.00	-29.04	PK
H	17235	44.14	30.55	5.77	24.66	44.02	54.00	-9.98	AV
H	22980	44.16	30.33	6.32	24.55	44.70	74.00	-29.30	PK
H	22980	45.98	30.33	6.32	24.55	46.52	54.00	-7.48	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	57.18	30.55	5.77	24.66	57.06	74.00	-16.94	PK
V	11570	44.99	30.55	5.77	24.66	44.87	54.00	-9.13	AV
V	17355	56.71	30.33	6.32	24.55	57.25	74.00	-16.75	PK
V	17355	46.83	30.33	6.32	24.55	47.37	54.00	-6.63	AV
V	23140	46.10	30.85	7.45	24.69	47.39	74.00	-26.61	PK
V	23140	46.10	30.85	7.45	24.69	47.39	54.00	-6.61	AV
H	11570	45.03	31.02	8.99	25.57	48.57	74.00	-25.43	PK
H	11570	46.17	31.02	8.99	25.57	49.71	54.00	-4.29	AV
H	17355	44.12	30.55	5.77	24.66	44.00	74.00	-30.00	PK
H	17355	46.54	30.55	5.77	24.66	46.42	54.00	-7.58	AV
H	23140	46.13	30.33	6.32	24.55	46.67	74.00	-27.33	PK
H	23140	44.16	30.33	6.32	24.55	44.70	54.00	-9.30	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	57.29	30.55	5.77	24.66	57.17	74.00	-16.83	PK
V	11650	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
V	17475	55.35	30.33	6.32	24.55	55.89	74.00	-18.11	PK
V	17475	45.88	30.33	6.32	24.55	46.42	54.00	-7.58	AV
V	23300	44.45	30.85	7.45	24.69	45.74	74.00	-28.26	PK
V	23300	45.58	30.85	7.45	24.69	46.87	54.00	-7.13	AV
H	11650	45.21	31.02	8.99	25.57	48.75	74.00	-25.25	PK
H	11650	45.85	31.02	8.99	25.57	49.39	54.00	-4.61	AV
H	17475	45.94	30.55	5.77	24.66	45.82	74.00	-28.18	PK
H	17475	45.69	30.55	5.77	24.66	45.57	54.00	-8.43	AV
H	23300	45.62	30.33	6.32	24.55	46.16	74.00	-27.84	PK
H	23300	44.61	30.33	6.32	24.55	45.15	54.00	-8.85	AV

ANT1-802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	54.93	30.55	5.77	24.66	54.81	74.00	-19.19	PK
V	10360	44.19	30.55	5.77	24.66	44.07	54.00	-9.93	AV
V	15540	55.66	30.33	6.32	24.55	56.20	74.00	-17.80	PK
V	15540	46.66	30.33	6.32	24.55	47.20	54.00	-6.80	AV
V	20720	43.69	30.85	7.45	24.69	44.98	74.00	-29.02	PK
V	20720	46.41	30.85	7.45	24.69	47.70	54.00	-6.30	AV
H	10360	45.80	31.02	8.99	25.57	49.34	74.00	-24.66	PK
H	10360	44.91	31.02	8.99	25.57	48.45	54.00	-5.55	AV
H	15540	43.67	30.55	5.77	24.66	43.55	74.00	-30.45	PK
H	15540	46.29	30.55	5.77	24.66	46.17	54.00	-7.83	AV
H	20720	46.00	30.33	6.32	24.55	46.54	74.00	-27.46	PK
H	20720	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	56.40	30.55	5.77	24.66	56.28	74.00	-17.72	PK
V	10400	45.59	30.55	5.77	24.66	45.47	54.00	-8.53	AV
V	15600	56.00	30.33	6.32	24.55	56.54	74.00	-17.46	PK
V	15600	46.04	30.33	6.32	24.55	46.58	54.00	-7.42	AV
V	20800	45.22	30.85	7.45	24.69	46.51	74.00	-27.49	PK
V	20800	45.38	30.85	7.45	24.69	46.67	54.00	-7.33	AV
H	10400	45.86	31.02	8.99	25.57	49.40	74.00	-24.60	PK
H	10400	46.54	31.02	8.99	25.57	50.08	54.00	-3.92	AV
H	15600	45.51	30.55	5.77	24.66	45.39	74.00	-28.61	PK
H	15600	44.64	30.55	5.77	24.66	44.52	54.00	-9.48	AV
H	20800	44.09	30.33	6.32	24.55	44.63	74.00	-29.37	PK
H	20800	45.90	30.33	6.32	24.55	46.44	54.00	-7.56	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	53.06	30.55	5.77	24.66	52.94	74.00	-21.06	PK
V	10480	44.94	30.55	5.77	24.66	44.82	54.00	-9.18	AV
V	15720	55.59	30.33	6.32	24.55	56.13	74.00	-17.87	PK
V	15720	45.35	30.33	6.32	24.55	45.89	54.00	-8.11	AV
V	20960	46.05	30.85	7.45	24.69	47.34	74.00	-26.66	PK
V	20960	44.65	30.85	7.45	24.69	45.94	54.00	-8.06	AV
H	10480	44.88	31.02	8.99	25.57	48.42	74.00	-25.58	PK
H	10480	44.75	31.02	8.99	25.57	48.29	54.00	-5.71	AV
H	15720	44.26	30.55	5.77	24.66	44.14	74.00	-29.86	PK
H	15720	44.62	30.55	5.77	24.66	44.50	54.00	-9.50	AV
H	20960	46.16	30.33	6.32	24.55	46.70	74.00	-27.30	PK
H	20960	45.16	30.33	6.32	24.55	45.70	54.00	-8.30	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	57.11	30.55	5.77	24.66	56.99	74.00	-17.01	PK
V	11490	44.70	30.55	5.77	24.66	44.58	54.00	-9.42	AV
V	17235	57.51	30.33	6.32	24.55	58.05	74.00	-15.95	PK
V	17235	46.84	30.33	6.32	24.55	47.38	54.00	-6.62	AV
V	22980	43.90	30.85	7.45	24.69	45.19	74.00	-28.81	PK
V	22980	45.44	30.85	7.45	24.69	46.73	54.00	-7.27	AV
H	11490	44.93	31.02	8.99	25.57	48.47	74.00	-25.53	PK
H	11490	44.96	31.02	8.99	25.57	48.50	54.00	-5.50	AV
H	17235	44.23	30.55	5.77	24.66	44.11	74.00	-29.89	PK
H	17235	45.37	30.55	5.77	24.66	45.25	54.00	-8.75	AV
H	22980	45.44	30.33	6.32	24.55	45.98	74.00	-28.02	PK
H	22980	44.07	30.33	6.32	24.55	44.61	54.00	-9.39	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	54.03	30.55	5.77	24.66	53.91	74.00	-20.09	PK
V	11570	45.43	30.55	5.77	24.66	45.31	54.00	-8.69	AV
V	17355	57.43	30.33	6.32	24.55	57.97	74.00	-16.03	PK
V	17355	46.57	30.33	6.32	24.55	47.11	54.00	-6.89	AV
V	23140	45.06	30.85	7.45	24.69	46.35	74.00	-27.65	PK
V	23140	46.49	30.85	7.45	24.69	47.78	54.00	-6.22	AV
H	11570	45.63	31.02	8.99	25.57	49.17	74.00	-24.83	PK
H	11570	45.58	31.02	8.99	25.57	49.12	54.00	-4.88	AV
H	17355	45.02	30.55	5.77	24.66	44.90	74.00	-29.10	PK
H	17355	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	23140	46.27	30.33	6.32	24.55	46.81	74.00	-27.19	PK
H	23140	44.50	30.33	6.32	24.55	45.04	54.00	-8.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	58.00	30.55	5.77	24.66	57.88	74.00	-16.12	PK
V	11650	45.50	30.55	5.77	24.66	45.38	54.00	-8.62	AV
V	17475	54.75	30.33	6.32	24.55	55.29	74.00	-18.71	PK
V	17475	45.20	30.33	6.32	24.55	45.74	54.00	-8.26	AV
V	23300	43.66	30.85	7.45	24.69	44.95	74.00	-29.05	PK
V	23300	46.53	30.85	7.45	24.69	47.82	54.00	-6.18	AV
H	11650	44.94	31.02	8.99	25.57	48.48	74.00	-25.52	PK
H	11650	44.28	31.02	8.99	25.57	47.82	54.00	-6.18	AV
H	17475	45.37	30.55	5.77	24.66	45.25	74.00	-28.75	PK
H	17475	45.78	30.55	5.77	24.66	45.66	54.00	-8.34	AV
H	23300	45.59	30.33	6.32	24.55	46.13	74.00	-27.87	PK
H	23300	45.96	30.33	6.32	24.55	46.50	54.00	-7.50	AV

ANT1-802.11n40

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	55.14	30.55	5.77	24.66	55.02	74.00	-18.98	PK
V	10380	44.47	30.55	5.77	24.66	44.35	54.00	-9.65	AV
V	15570	57.48	30.33	6.32	24.55	58.02	74.00	-15.98	PK
V	15570	46.60	30.33	6.32	24.55	47.14	54.00	-6.86	AV
V	20760	44.56	30.85	7.45	24.69	45.85	74.00	-28.15	PK
V	20760	45.47	30.85	7.45	24.69	46.76	54.00	-7.24	AV
H	10380	44.08	31.02	8.99	25.57	47.62	74.00	-26.38	PK
H	10380	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	15570	44.14	30.55	5.77	24.66	44.02	74.00	-29.98	PK
H	15570	45.60	30.55	5.77	24.66	45.48	54.00	-8.52	AV
H	20760	43.77	30.33	6.32	24.55	44.31	74.00	-29.69	PK
H	20760	45.95	30.33	6.32	24.55	46.49	54.00	-7.51	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	58.27	30.55	5.77	24.66	58.15	74.00	-15.85	PK
V	10460	45.54	30.55	5.77	24.66	45.42	54.00	-8.58	AV
V	15690	55.02	30.33	6.32	24.55	55.56	74.00	-18.44	PK
V	15690	46.02	30.33	6.32	24.55	46.56	54.00	-7.44	AV
V	20920	45.09	30.85	7.45	24.69	46.38	74.00	-27.62	PK
V	20920	45.59	30.85	7.45	24.69	46.88	54.00	-7.12	AV
H	10460	44.60	31.02	8.99	25.57	48.14	74.00	-25.86	PK
H	10460	44.23	31.02	8.99	25.57	47.77	54.00	-6.23	AV
H	15690	43.71	30.55	5.77	24.66	43.59	74.00	-30.41	PK
H	15690	45.73	30.55	5.77	24.66	45.61	54.00	-8.39	AV
H	20920	43.91	30.33	6.32	24.55	44.45	74.00	-29.55	PK
H	20920	46.25	30.33	6.32	24.55	46.79	54.00	-7.21	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	57.00	30.55	5.77	24.66	56.88	74.00	-17.12	PK
V	11510	43.69	30.55	5.77	24.66	43.57	54.00	-10.43	AV
V	17265	57.22	30.33	6.32	24.55	57.76	74.00	-16.24	PK
V	17265	47.58	30.33	6.32	24.55	48.12	54.00	-5.88	AV
V	23020	45.60	30.85	7.45	24.69	46.89	74.00	-27.11	PK
V	23020	44.44	30.85	7.45	24.69	45.73	54.00	-8.27	AV
H	11510	44.94	31.02	8.99	25.57	48.48	74.00	-25.52	PK
H	11510	45.87	31.02	8.99	25.57	49.41	54.00	-4.59	AV
H	17265	43.80	30.55	5.77	24.66	43.68	74.00	-30.32	PK
H	17265	44.33	30.55	5.77	24.66	44.21	54.00	-9.79	AV
H	23020	46.55	30.33	6.32	24.55	47.09	74.00	-26.91	PK
H	23020	46.05	30.33	6.32	24.55	46.59	54.00	-7.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	58.47	30.55	5.77	24.66	58.35	74.00	-15.65	PK
V	11590	45.11	30.55	5.77	24.66	44.99	54.00	-9.01	AV
V	17385	57.55	30.33	6.32	24.55	58.09	74.00	-15.91	PK
V	17385	46.36	30.33	6.32	24.55	46.90	54.00	-7.10	AV
V	23180	45.18	30.85	7.45	24.69	46.47	74.00	-27.53	PK
V	23180	44.34	30.85	7.45	24.69	45.63	54.00	-8.37	AV
H	11590	45.65	31.02	8.99	25.57	49.19	74.00	-24.81	PK
H	11590	45.26	31.02	8.99	25.57	48.80	54.00	-5.20	AV
H	17385	44.26	30.55	5.77	24.66	44.14	74.00	-29.86	PK
H	17385	46.56	30.55	5.77	24.66	46.44	54.00	-7.56	AV
H	23180	46.29	30.33	6.32	24.55	46.83	74.00	-27.17	PK
H	23180	46.00	30.33	6.32	24.55	46.54	54.00	-7.46	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

ANT1--802.11ac20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	53.25	30.55	5.77	24.66	53.13	74.00	-20.87	PK
V	10360	44.89	30.55	5.77	24.66	44.77	54.00	-9.23	AV
V	15540	56.95	30.33	6.32	24.55	57.49	74.00	-16.51	PK
V	15540	46.37	30.33	6.32	24.55	46.91	54.00	-7.09	AV
V	20720	46.51	30.85	7.45	24.69	47.80	74.00	-26.20	PK
V	20720	44.57	30.85	7.45	24.69	45.86	54.00	-8.14	AV
H	10360	46.19	31.02	8.99	25.57	49.73	74.00	-24.27	PK
H	10360	45.11	31.02	8.99	25.57	48.65	54.00	-5.35	AV
H	15540	44.51	30.55	5.77	24.66	44.39	74.00	-29.61	PK
H	15540	45.81	30.55	5.77	24.66	45.69	54.00	-8.31	AV
H	20720	45.58	30.33	6.32	24.55	46.12	74.00	-27.88	PK
H	20720	43.61	30.33	6.32	24.55	44.15	54.00	-9.85	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	56.33	30.55	5.77	24.66	56.21	74.00	-17.79	PK
V	10400	44.76	30.55	5.77	24.66	44.64	54.00	-9.36	AV
V	15600	57.32	30.33	6.32	24.55	57.86	74.00	-16.14	PK
V	15600	46.34	30.33	6.32	24.55	46.88	54.00	-7.12	AV
V	20800	45.68	30.85	7.45	24.69	46.97	74.00	-27.03	PK
V	20800	45.60	30.85	7.45	24.69	46.89	54.00	-7.11	AV
H	10400	43.66	31.02	8.99	25.57	47.20	74.00	-26.80	PK
H	10400	45.03	31.02	8.99	25.57	48.57	54.00	-5.43	AV
H	15600	44.11	30.55	5.77	24.66	43.99	74.00	-30.01	PK
H	15600	45.15	30.55	5.77	24.66	45.03	54.00	-8.97	AV
H	20800	44.29	30.33	6.32	24.55	44.83	74.00	-29.17	PK
H	20800	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	57.75	30.55	5.77	24.66	57.63	74.00	-16.37	PK
V	10480	44.47	30.55	5.77	24.66	44.35	54.00	-9.65	AV
V	15720	55.83	30.33	6.32	24.55	56.37	74.00	-17.63	PK
V	15720	46.10	30.33	6.32	24.55	46.64	54.00	-7.36	AV
V	20960	43.78	30.85	7.45	24.69	45.07	74.00	-28.93	PK
V	20960	44.92	30.85	7.45	24.69	46.21	54.00	-7.79	AV
H	10480	46.33	31.02	8.99	25.57	49.87	74.00	-24.13	PK
H	10480	43.64	31.02	8.99	25.57	47.18	54.00	-6.82	AV
H	15720	44.29	30.55	5.77	24.66	44.17	74.00	-29.83	PK
H	15720	44.40	30.55	5.77	24.66	44.28	54.00	-9.72	AV
H	20960	44.08	30.33	6.32	24.55	44.62	74.00	-29.38	PK
H	20960	45.15	30.33	6.32	24.55	45.69	54.00	-8.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	55.06	30.55	5.77	24.66	54.94	74.00	-19.06	PK
V	11490	44.41	30.55	5.77	24.66	44.29	54.00	-9.71	AV
V	17235	54.99	30.33	6.32	24.55	55.53	74.00	-18.47	PK
V	17235	46.81	30.33	6.32	24.55	47.35	54.00	-6.65	AV
V	22980	43.77	30.85	7.45	24.69	45.06	74.00	-28.94	PK
V	22980	43.70	30.85	7.45	24.69	44.99	54.00	-9.01	AV
H	11490	46.42	31.02	8.99	25.57	49.96	74.00	-24.04	PK
H	11490	44.63	31.02	8.99	25.57	48.17	54.00	-5.83	AV
H	17235	45.15	30.55	5.77	24.66	45.03	74.00	-28.97	PK
H	17235	43.69	30.55	5.77	24.66	43.57	54.00	-10.43	AV
H	22980	46.41	30.33	6.32	24.55	46.95	74.00	-27.05	PK
H	22980	44.78	30.33	6.32	24.55	45.32	54.00	-8.68	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	51.65	30.55	5.77	24.66	51.53	74.00	-22.47	PK
V	11570	45.12	30.55	5.77	24.66	45.00	54.00	-9.00	AV
V	17355	55.01	30.33	6.32	24.55	55.55	74.00	-18.45	PK
V	17355	45.84	30.33	6.32	24.55	46.38	54.00	-7.62	AV
V	23140	43.67	30.85	7.45	24.69	44.96	74.00	-29.04	PK
V	23140	45.82	30.85	7.45	24.69	47.11	54.00	-6.89	AV
H	11570	45.26	31.02	8.99	25.57	48.80	74.00	-25.20	PK
H	11570	44.49	31.02	8.99	25.57	48.03	54.00	-5.97	AV
H	17355	44.68	30.55	5.77	24.66	44.56	74.00	-29.44	PK
H	17355	45.77	30.55	5.77	24.66	45.65	54.00	-8.35	AV
H	23140	45.99	30.33	6.32	24.55	46.53	74.00	-27.47	PK
H	23140	45.31	30.33	6.32	24.55	45.85	54.00	-8.15	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	57.08	30.55	5.77	24.66	56.96	74.00	-17.04	PK
V	11590	45.37	30.55	5.77	24.66	45.25	54.00	-8.75	AV
V	17385	56.00	30.33	6.32	24.55	56.54	74.00	-17.46	PK
V	17385	44.86	30.33	6.32	24.55	45.40	54.00	-8.60	AV
V	23180	43.89	30.85	7.45	24.69	45.18	74.00	-28.82	PK
V	23180	45.35	30.85	7.45	24.69	46.64	54.00	-7.36	AV
H	11590	44.22	31.02	8.99	25.57	47.76	74.00	-26.24	PK
H	11590	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV
H	17385	44.36	30.55	5.77	24.66	44.24	74.00	-29.76	PK
H	17385	44.06	30.55	5.77	24.66	43.94	54.00	-10.06	AV
H	23180	45.55	30.33	6.32	24.55	46.09	74.00	-27.91	PK
H	23180	44.24	30.33	6.32	24.55	44.78	54.00	-9.22	AV

ANT1-802.11ac40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:5190MHz									
V	10380	55.83	30.55	5.77	24.66	55.71	74.00	-18.29	PK
V	10380	43.50	30.55	5.77	24.66	43.38	54.00	-10.62	AV
V	15570	57.42	30.33	6.32	24.55	57.96	74.00	-16.04	PK
V	15570	45.89	30.33	6.32	24.55	46.43	54.00	-7.57	AV
V	20760	45.19	30.85	7.45	24.69	46.48	74.00	-27.52	PK
V	20760	44.51	30.85	7.45	24.69	45.80	54.00	-8.20	AV
H	10380	45.80	31.02	8.99	25.57	49.34	74.00	-24.66	PK
H	10380	46.57	31.02	8.99	25.57	50.11	54.00	-3.89	AV
H	15570	45.05	30.55	5.77	24.66	44.93	74.00	-29.07	PK
H	15570	46.41	30.55	5.77	24.66	46.29	54.00	-7.71	AV
H	20760	44.88	30.33	6.32	24.55	45.42	74.00	-28.58	PK
H	20760	46.40	30.33	6.32	24.55	46.94	54.00	-7.06	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	58.19	30.55	5.77	24.66	58.07	74.00	-15.93	PK
V	10460	42.61	30.55	5.77	24.66	42.49	54.00	-11.51	AV
V	15690	55.91	30.33	6.32	24.55	56.45	74.00	-17.55	PK
V	15690	44.76	30.33	6.32	24.55	45.30	54.00	-8.70	AV
V	20920	45.65	30.85	7.45	24.69	46.94	74.00	-27.06	PK
V	20920	43.95	30.85	7.45	24.69	45.24	54.00	-8.76	AV
H	10460	45.18	31.02	8.99	25.57	48.72	74.00	-25.28	PK
H	10460	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV
H	15690	46.32	30.55	5.77	24.66	46.20	74.00	-27.80	PK
H	15690	45.06	30.55	5.77	24.66	44.94	54.00	-9.06	AV
H	20920	45.93	30.33	6.32	24.55	46.47	74.00	-27.53	PK
H	20920	46.11	30.33	6.32	24.55	46.65	54.00	-7.35	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	53.72	30.55	5.77	24.66	53.60	74.00	-20.40	PK
V	11510	43.93	30.55	5.77	24.66	43.81	54.00	-10.19	AV
V	17265	54.89	30.33	6.32	24.55	55.43	74.00	-18.57	PK
V	17265	46.30	30.33	6.32	24.55	46.84	54.00	-7.16	AV
V	23020	44.53	30.85	7.45	24.69	45.82	74.00	-28.18	PK
V	23020	45.16	30.85	7.45	24.69	46.45	54.00	-7.55	AV
H	11510	44.58	31.02	8.99	25.57	48.12	74.00	-25.88	PK
H	11510	45.24	31.02	8.99	25.57	48.78	54.00	-5.22	AV
H	17265	45.92	30.55	5.77	24.66	45.80	74.00	-28.20	PK
H	17265	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
H	23020	43.80	30.33	6.32	24.55	44.34	74.00	-29.66	PK
H	23020	44.76	30.33	6.32	24.55	45.30	54.00	-8.70	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	58.04	30.55	5.77	24.66	57.92	74.00	-16.08	PK
V	11590	42.76	30.55	5.77	24.66	42.64	54.00	-11.36	AV
V	17385	56.98	30.33	6.32	24.55	57.52	74.00	-16.48	PK
V	17385	47.08	30.33	6.32	24.55	47.62	54.00	-6.38	AV
V	23180	46.44	30.85	7.45	24.69	47.73	74.00	-26.27	PK
V	23180	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	11590	45.94	31.02	8.99	25.57	49.48	74.00	-24.52	PK
H	11590	43.80	31.02	8.99	25.57	47.34	54.00	-6.66	AV
H	17385	45.41	30.55	5.77	24.66	45.29	74.00	-28.71	PK
H	17385	44.00	30.55	5.77	24.66	43.88	54.00	-10.12	AV
H	23180	44.57	30.33	6.32	24.55	45.11	74.00	-28.89	PK
H	23180	44.19	30.33	6.32	24.55	44.73	54.00	-9.27	AV

ANT1-802.11ac80

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	53.17	30.55	5.77	24.66	53.05	74.00	-20.95	PK
V	10420	42.69	30.55	5.77	24.66	42.57	54.00	-11.43	AV
V	15630	54.91	30.33	6.32	24.55	55.45	74.00	-18.55	PK
V	15630	47.31	30.33	6.32	24.55	47.85	54.00	-6.15	AV
V	20840	44.29	30.85	7.45	24.69	45.58	74.00	-28.42	PK
V	20840	45.13	30.85	7.45	24.69	46.42	54.00	-7.58	AV
H	10420	43.75	31.02	8.99	25.57	47.29	74.00	-26.71	PK
H	10420	45.13	31.02	8.99	25.57	48.67	54.00	-5.33	AV
H	15630	45.13	30.55	5.77	24.66	45.01	74.00	-28.99	PK
H	15630	45.70	30.55	5.77	24.66	45.58	54.00	-8.42	AV
H	20840	45.00	30.33	6.32	24.55	45.54	74.00	-28.46	PK
H	20840	45.40	30.33	6.32	24.55	45.94	54.00	-8.06	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5775MHz									
V	11550	54.09	30.55	5.77	24.66	53.97	74.00	-20.03	PK
V	11550	44.77	30.55	5.77	24.66	44.65	54.00	-9.35	AV
V	17325	56.75	30.33	6.32	24.55	57.29	74.00	-16.71	PK
V	17325	45.73	30.33	6.32	24.55	46.27	54.00	-7.73	AV
V	23100	45.73	30.85	7.45	24.69	47.02	74.00	-26.98	PK
V	23100	46.58	30.85	7.45	24.69	47.87	54.00	-6.13	AV
H	11550	43.75	31.02	8.99	25.57	47.29	74.00	-26.71	PK
H	11550	45.68	31.02	8.99	25.57	49.22	54.00	-4.78	AV
H	17325	44.15	30.55	5.77	24.66	44.03	74.00	-29.97	PK
H	17325	45.14	30.55	5.77	24.66	45.02	54.00	-8.98	AV
H	23100	44.63	30.33	6.32	24.55	45.17	74.00	-28.83	PK
H	23100	44.46	30.33	6.32	24.55	45.00	54.00	-9.00	AV

ANT2-802.11a

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	57.83	30.55	5.77	24.66	57.71	74.00	-16.29	PK
V	10360	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
V	15540	56.30	30.33	6.32	24.55	56.84	74.00	-17.16	PK
V	15540	45.44	30.33	6.32	24.55	45.98	54.00	-8.02	AV
V	20720	44.01	30.85	7.45	24.69	45.30	74.00	-28.70	PK
V	20720	44.64	30.85	7.45	24.69	45.93	54.00	-8.07	AV
H	10360	44.90	31.02	8.99	25.57	48.44	74.00	-25.56	PK
H	10360	45.88	31.02	8.99	25.57	49.42	54.00	-4.58	AV
H	15540	46.29	30.55	5.77	24.66	46.17	74.00	-27.83	PK
H	15540	44.81	30.55	5.77	24.66	44.69	54.00	-9.31	AV
H	20720	45.43	30.33	6.32	24.55	45.97	74.00	-28.03	PK
H	20720	46.19	30.33	6.32	24.55	46.73	54.00	-7.27	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	54.86	30.55	5.77	24.66	54.74	74.00	-19.26	PK
V	10400	44.96	30.55	5.77	24.66	44.84	54.00	-9.16	AV
V	15600	55.57	30.33	6.32	24.55	56.11	74.00	-17.89	PK
V	15600	46.78	30.33	6.32	24.55	47.32	54.00	-6.68	AV
V	20800	43.64	30.85	7.45	24.69	44.93	74.00	-29.07	PK
V	20800	46.44	30.85	7.45	24.69	47.73	54.00	-6.27	AV
H	10400	44.28	31.02	8.99	25.57	47.82	74.00	-26.18	PK
H	10400	44.98	31.02	8.99	25.57	48.52	54.00	-5.48	AV
H	15600	44.54	30.55	5.77	24.66	44.42	74.00	-29.58	PK
H	15600	46.36	30.55	5.77	24.66	46.24	54.00	-7.76	AV
H	20800	45.02	30.33	6.32	24.55	45.56	74.00	-28.44	PK
H	20800	45.47	30.33	6.32	24.55	46.01	54.00	-7.99	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.61	30.55	5.77	24.66	56.49	74.00	-17.51	PK
V	10480	45.19	30.55	5.77	24.66	45.07	54.00	-8.93	AV
V	15720	56.20	30.33	6.32	24.55	56.74	74.00	-17.26	PK
V	15720	45.53	30.33	6.32	24.55	46.07	54.00	-7.93	AV
V	20960	46.28	30.85	7.45	24.69	47.57	74.00	-26.43	PK
V	20960	45.34	30.85	7.45	24.69	46.63	54.00	-7.37	AV
H	10480	46.29	31.02	8.99	25.57	49.83	74.00	-24.17	PK
H	10480	45.13	31.02	8.99	25.57	48.67	54.00	-5.33	AV
H	15720	44.90	30.55	5.77	24.66	44.78	74.00	-29.22	PK
H	15720	44.34	30.55	5.77	24.66	44.22	54.00	-9.78	AV
H	20960	43.90	30.33	6.32	24.55	44.44	74.00	-29.56	PK
H	20960	46.20	30.33	6.32	24.55	46.74	54.00	-7.26	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	56.83	30.55	5.77	24.66	56.71	74.00	-17.29	PK
V	11490	44.25	30.55	5.77	24.66	44.13	54.00	-9.87	AV
V	17235	54.82	30.33	6.32	24.55	55.36	74.00	-18.64	PK
V	17235	44.81	30.33	6.32	24.55	45.35	54.00	-8.65	AV
V	22980	45.75	30.85	7.45	24.69	47.04	74.00	-26.96	PK
V	22980	45.36	30.85	7.45	24.69	46.65	54.00	-7.35	AV
H	11490	45.05	31.02	8.99	25.57	48.59	74.00	-25.41	PK
H	11490	44.72	31.02	8.99	25.57	48.26	54.00	-5.74	AV
H	17235	44.06	30.55	5.77	24.66	43.94	74.00	-30.06	PK
H	17235	46.55	30.55	5.77	24.66	46.43	54.00	-7.57	AV
H	22980	45.17	30.33	6.32	24.55	45.71	74.00	-28.29	PK
H	22980	46.12	30.33	6.32	24.55	46.66	54.00	-7.34	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	56.19	30.55	5.77	24.66	56.07	74.00	-17.93	PK
V	11570	44.65	30.55	5.77	24.66	44.53	54.00	-9.47	AV
V	17355	55.67	30.33	6.32	24.55	56.21	74.00	-17.79	PK
V	17355	46.38	30.33	6.32	24.55	46.92	54.00	-7.08	AV
V	23140	45.16	30.85	7.45	24.69	46.45	74.00	-27.55	PK
V	23140	46.13	30.85	7.45	24.69	47.42	54.00	-6.58	AV
H	11570	44.94	31.02	8.99	25.57	48.48	74.00	-25.52	PK
H	11570	44.22	31.02	8.99	25.57	47.76	54.00	-6.24	AV
H	17355	46.12	30.55	5.77	24.66	46.00	74.00	-28.00	PK
H	17355	44.89	30.55	5.77	24.66	44.77	54.00	-9.23	AV
H	23140	44.99	30.33	6.32	24.55	45.53	74.00	-28.47	PK
H	23140	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	53.48	30.55	5.77	24.66	53.36	74.00	-20.64	PK
V	11650	44.39	30.55	5.77	24.66	44.27	54.00	-9.73	AV
V	17475	57.05	30.33	6.32	24.55	57.59	74.00	-16.41	PK
V	17475	45.62	30.33	6.32	24.55	46.16	54.00	-7.84	AV
V	23300	46.18	30.85	7.45	24.69	47.47	74.00	-26.53	PK
V	23300	45.51	30.85	7.45	24.69	46.80	54.00	-7.20	AV
H	11650	44.14	31.02	8.99	25.57	47.68	74.00	-26.32	PK
H	11650	46.45	31.02	8.99	25.57	49.99	54.00	-4.01	AV
H	17475	45.02	30.55	5.77	24.66	44.90	74.00	-29.10	PK
H	17475	45.56	30.55	5.77	24.66	45.44	54.00	-8.56	AV
H	23300	44.33	30.33	6.32	24.55	44.87	74.00	-29.13	PK
H	23300	46.57	30.33	6.32	24.55	47.11	54.00	-6.89	AV

ANT2-802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	55.66	30.55	5.77	24.66	55.54	74.00	-18.46	PK
V	10360	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV
V	15540	54.89	30.33	6.32	24.55	55.43	74.00	-18.57	PK
V	15540	47.21	30.33	6.32	24.55	47.75	54.00	-6.25	AV
V	20720	44.37	30.85	7.45	24.69	45.66	74.00	-28.34	PK
V	20720	44.79	30.85	7.45	24.69	46.08	54.00	-7.92	AV
H	10360	45.81	31.02	8.99	25.57	49.35	74.00	-24.65	PK
H	10360	46.55	31.02	8.99	25.57	50.09	54.00	-3.91	AV
H	15540	44.23	30.55	5.77	24.66	44.11	74.00	-29.89	PK
H	15540	46.22	30.55	5.77	24.66	46.10	54.00	-7.90	AV
H	20720	45.94	30.33	6.32	24.55	46.48	74.00	-27.52	PK
H	20720	43.90	30.33	6.32	24.55	44.44	54.00	-9.56	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	51.68	30.55	5.77	24.66	51.56	74.00	-22.44	PK
V	10400	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
V	15600	54.77	30.33	6.32	24.55	55.31	74.00	-18.69	PK
V	15600	46.87	30.33	6.32	24.55	47.41	54.00	-6.59	AV
V	20800	46.02	30.85	7.45	24.69	47.31	74.00	-26.69	PK
V	20800	44.54	30.85	7.45	24.69	45.83	54.00	-8.17	AV
H	10400	45.59	31.02	8.99	25.57	49.13	74.00	-24.87	PK
H	10400	44.33	31.02	8.99	25.57	47.87	54.00	-6.13	AV
H	15600	44.75	30.55	5.77	24.66	44.63	74.00	-29.37	PK
H	15600	45.06	30.55	5.77	24.66	44.94	54.00	-9.06	AV
H	20800	44.93	30.33	6.32	24.55	45.47	74.00	-28.53	PK
H	20800	45.34	30.33	6.32	24.55	45.88	54.00	-8.12	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:5240MHz									
V	10480	55.98	30.55	5.77	24.66	55.86	74.00	-18.14	PK
V	10480	44.45	30.55	5.77	24.66	44.33	54.00	-9.67	AV
V	15720	54.98	30.33	6.32	24.55	55.52	74.00	-18.48	PK
V	15720	46.29	30.33	6.32	24.55	46.83	54.00	-7.17	AV
V	20960	45.70	30.85	7.45	24.69	46.99	74.00	-27.01	PK
V	20960	46.51	30.85	7.45	24.69	47.80	54.00	-6.20	AV
H	10480	45.00	31.02	8.99	25.57	48.54	74.00	-25.46	PK
H	10480	45.45	31.02	8.99	25.57	48.99	54.00	-5.01	AV
H	15720	45.28	30.55	5.77	24.66	45.16	74.00	-28.84	PK
H	15720	44.78	30.55	5.77	24.66	44.66	54.00	-9.34	AV
H	20960	45.68	30.33	6.32	24.55	46.22	74.00	-27.78	PK
H	20960	43.80	30.33	6.32	24.55	44.34	54.00	-9.66	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	52.53	30.55	5.77	24.66	52.41	74.00	-21.59	PK
V	11490	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
V	17235	54.82	30.33	6.32	24.55	55.36	74.00	-18.64	PK
V	17235	46.93	30.33	6.32	24.55	47.47	54.00	-6.53	AV
V	22980	44.97	30.85	7.45	24.69	46.26	74.00	-27.74	PK
V	22980	44.31	30.85	7.45	24.69	45.60	54.00	-8.40	AV
H	11490	44.82	31.02	8.99	25.57	48.36	74.00	-25.64	PK
H	11490	44.15	31.02	8.99	25.57	47.69	54.00	-6.31	AV
H	17235	45.77	30.55	5.77	24.66	45.65	74.00	-28.35	PK
H	17235	44.06	30.55	5.77	24.66	43.94	54.00	-10.06	AV
H	22980	46.11	30.33	6.32	24.55	46.65	74.00	-27.35	PK
H	22980	46.48	30.33	6.32	24.55	47.02	54.00	-6.98	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	54.94	30.55	5.77	24.66	54.82	74.00	-19.18	PK
V	11570	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
V	17355	57.11	30.33	6.32	24.55	57.65	74.00	-16.35	PK
V	17355	47.26	30.33	6.32	24.55	47.80	54.00	-6.20	AV
V	23140	46.53	30.85	7.45	24.69	47.82	74.00	-26.18	PK
V	23140	44.78	30.85	7.45	24.69	46.07	54.00	-7.93	AV
H	11570	44.86	31.02	8.99	25.57	48.40	74.00	-25.60	PK
H	11570	44.97	31.02	8.99	25.57	48.51	54.00	-5.49	AV
H	17355	45.68	30.55	5.77	24.66	45.56	74.00	-28.44	PK
H	17355	44.30	30.55	5.77	24.66	44.18	54.00	-9.82	AV
H	23140	44.79	30.33	6.32	24.55	45.33	74.00	-28.67	PK
H	23140	44.35	30.33	6.32	24.55	44.89	54.00	-9.11	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	52.83	30.55	5.77	24.66	52.71	74.00	-21.29	PK
V	11650	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
V	17475	56.85	30.33	6.32	24.55	57.39	74.00	-16.61	PK
V	17475	46.55	30.33	6.32	24.55	47.09	54.00	-6.91	AV
V	23300	43.75	30.85	7.45	24.69	45.04	74.00	-28.96	PK
V	23300	44.50	30.85	7.45	24.69	45.79	54.00	-8.21	AV
H	11650	45.92	31.02	8.99	25.57	49.46	74.00	-24.54	PK
H	11650	45.92	31.02	8.99	25.57	49.46	54.00	-4.54	AV
H	17475	43.87	30.55	5.77	24.66	43.75	74.00	-30.25	PK
H	17475	44.63	30.55	5.77	24.66	44.51	54.00	-9.49	AV
H	23300	45.67	30.33	6.32	24.55	46.21	74.00	-27.79	PK
H	23300	45.70	30.33	6.32	24.55	46.24	54.00	-7.76	AV

ANT2-802.11n40

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	52.80	30.55	5.77	24.66	52.68	74.00	-21.32	PK
V	10380	44.91	30.55	5.77	24.66	44.79	54.00	-9.21	AV
V	15570	55.96	30.33	6.32	24.55	56.50	74.00	-17.50	PK
V	15570	45.67	30.33	6.32	24.55	46.21	54.00	-7.79	AV
V	20760	44.46	30.85	7.45	24.69	45.75	74.00	-28.25	PK
V	20760	46.19	30.85	7.45	24.69	47.48	54.00	-6.52	AV
H	10380	45.86	31.02	8.99	25.57	49.40	74.00	-24.60	PK
H	10380	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV
H	15570	44.38	30.55	5.77	24.66	44.26	74.00	-29.74	PK
H	15570	44.51	30.55	5.77	24.66	44.39	54.00	-9.61	AV
H	20760	44.91	30.33	6.32	24.55	45.45	74.00	-28.55	PK
H	20760	44.05	30.33	6.32	24.55	44.59	54.00	-9.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	53.30	30.55	5.77	24.66	53.18	74.00	-20.82	PK
V	10460	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
V	15690	57.04	30.33	6.32	24.55	57.58	74.00	-16.42	PK
V	15690	44.74	30.33	6.32	24.55	45.28	54.00	-8.72	AV
V	20920	44.18	30.85	7.45	24.69	45.47	74.00	-28.53	PK
V	20920	46.22	30.85	7.45	24.69	47.51	54.00	-6.49	AV
H	10460	46.56	31.02	8.99	25.57	50.10	74.00	-23.90	PK
H	10460	44.72	31.02	8.99	25.57	48.26	54.00	-5.74	AV
H	15690	46.07	30.55	5.77	24.66	45.95	74.00	-28.05	PK
H	15690	44.47	30.55	5.77	24.66	44.35	54.00	-9.65	AV
H	20920	44.02	30.33	6.32	24.55	44.56	74.00	-29.44	PK
H	20920	45.64	30.33	6.32	24.55	46.18	54.00	-7.82	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	51.91	30.55	5.77	24.66	51.79	74.00	-22.21	PK
V	11510	44.76	30.55	5.77	24.66	44.64	54.00	-9.36	AV
V	17265	54.66	30.33	6.32	24.55	55.20	74.00	-18.80	PK
V	17265	45.72	30.33	6.32	24.55	46.26	54.00	-7.74	AV
V	23020	45.74	30.85	7.45	24.69	47.03	74.00	-26.97	PK
V	23020	45.30	30.85	7.45	24.69	46.59	54.00	-7.41	AV
H	11510	43.95	31.02	8.99	25.57	47.49	74.00	-26.51	PK
H	11510	46.35	31.02	8.99	25.57	49.89	54.00	-4.11	AV
H	17265	45.71	30.55	5.77	24.66	45.59	74.00	-28.41	PK
H	17265	45.99	30.55	5.77	24.66	45.87	54.00	-8.13	AV
H	23020	45.63	30.33	6.32	24.55	46.17	74.00	-27.83	PK
H	23020	44.88	30.33	6.32	24.55	45.42	54.00	-8.58	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	54.28	30.55	5.77	24.66	54.16	74.00	-19.84	PK
V	11590	45.34	30.55	5.77	24.66	45.22	54.00	-8.78	AV
V	17385	55.39	30.33	6.32	24.55	55.93	74.00	-18.07	PK
V	17385	46.36	30.33	6.32	24.55	46.90	54.00	-7.10	AV
V	23180	44.69	30.85	7.45	24.69	45.98	74.00	-28.02	PK
V	23180	44.85	30.85	7.45	24.69	46.14	54.00	-7.86	AV
H	11590	46.50	31.02	8.99	25.57	50.04	74.00	-23.96	PK
H	11590	44.17	31.02	8.99	25.57	47.71	54.00	-6.29	AV
H	17385	44.91	30.55	5.77	24.66	44.79	74.00	-29.21	PK
H	17385	45.82	30.55	5.77	24.66	45.70	54.00	-8.30	AV
H	23180	46.43	30.33	6.32	24.55	46.97	74.00	-27.03	PK
H	23180	44.84	30.33	6.32	24.55	45.38	54.00	-8.62	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

ANT2--802.11ac20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	53.82	30.55	5.77	24.66	53.70	74.00	-20.30	PK
V	10360	43.39	30.55	5.77	24.66	43.27	54.00	-10.73	AV
V	15540	56.21	30.33	6.32	24.55	56.75	74.00	-17.25	PK
V	15540	45.49	30.33	6.32	24.55	46.03	54.00	-7.97	AV
V	20720	45.83	30.85	7.45	24.69	47.12	74.00	-26.88	PK
V	20720	45.05	30.85	7.45	24.69	46.34	54.00	-7.66	AV
H	10360	45.75	31.02	8.99	25.57	49.29	74.00	-24.71	PK
H	10360	46.09	31.02	8.99	25.57	49.63	54.00	-4.37	AV
H	15540	46.58	30.55	5.77	24.66	46.46	74.00	-27.54	PK
H	15540	45.03	30.55	5.77	24.66	44.91	54.00	-9.09	AV
H	20720	44.13	30.33	6.32	24.55	44.67	74.00	-29.33	PK
H	20720	44.25	30.33	6.32	24.55	44.79	54.00	-9.21	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.41	30.55	5.77	24.66	55.29	74.00	-18.71	PK
V	10400	42.93	30.55	5.77	24.66	42.81	54.00	-11.19	AV
V	15600	56.43	30.33	6.32	24.55	56.97	74.00	-17.03	PK
V	15600	44.90	30.33	6.32	24.55	45.44	54.00	-8.56	AV
V	20800	44.13	30.85	7.45	24.69	45.42	74.00	-28.58	PK
V	20800	46.41	30.85	7.45	24.69	47.70	54.00	-6.30	AV
H	10400	46.38	31.02	8.99	25.57	49.92	74.00	-24.08	PK
H	10400	44.92	31.02	8.99	25.57	48.46	54.00	-5.54	AV
H	15600	44.14	30.55	5.77	24.66	44.02	74.00	-29.98	PK
H	15600	45.98	30.55	5.77	24.66	45.86	54.00	-8.14	AV
H	20800	45.33	30.33	6.32	24.55	45.87	74.00	-28.13	PK
H	20800	44.67	30.33	6.32	24.55	45.21	54.00	-8.79	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.74	30.55	5.77	24.66	56.62	74.00	-17.38	PK
V	10480	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
V	15720	55.50	30.33	6.32	24.55	56.04	74.00	-17.96	PK
V	15720	46.97	30.33	6.32	24.55	47.51	54.00	-6.49	AV
V	20960	45.91	30.85	7.45	24.69	47.20	74.00	-26.80	PK
V	20960	46.38	30.85	7.45	24.69	47.67	54.00	-6.33	AV
H	10480	44.51	31.02	8.99	25.57	48.05	74.00	-25.95	PK
H	10480	44.67	31.02	8.99	25.57	48.21	54.00	-5.79	AV
H	15720	45.94	30.55	5.77	24.66	45.82	74.00	-28.18	PK
H	15720	44.62	30.55	5.77	24.66	44.50	54.00	-9.50	AV
H	20960	45.93	30.33	6.32	24.55	46.47	74.00	-27.53	PK
H	20960	45.00	30.33	6.32	24.55	45.54	54.00	-8.46	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	52.93	30.55	5.77	24.66	52.81	74.00	-21.19	PK
V	11490	42.86	30.55	5.77	24.66	42.74	54.00	-11.26	AV
V	17235	56.16	30.33	6.32	24.55	56.70	74.00	-17.30	PK
V	17235	46.93	30.33	6.32	24.55	47.47	54.00	-6.53	AV
V	22980	45.37	30.85	7.45	24.69	46.66	74.00	-27.34	PK
V	22980	45.33	30.85	7.45	24.69	46.62	54.00	-7.38	AV
H	11490	46.49	31.02	8.99	25.57	50.03	74.00	-23.97	PK
H	11490	45.78	31.02	8.99	25.57	49.32	54.00	-4.68	AV
H	17235	43.93	30.55	5.77	24.66	43.81	74.00	-30.19	PK
H	17235	44.40	30.55	5.77	24.66	44.28	54.00	-9.72	AV
H	22980	44.80	30.33	6.32	24.55	45.34	74.00	-28.66	PK
H	22980	44.30	30.33	6.32	24.55	44.84	54.00	-9.16	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	54.36	30.55	5.77	24.66	54.24	74.00	-19.76	PK
V	11570	45.20	30.55	5.77	24.66	45.08	54.00	-8.92	AV
V	17355	55.34	30.33	6.32	24.55	55.88	74.00	-18.12	PK
V	17355	47.00	30.33	6.32	24.55	47.54	54.00	-6.46	AV
V	23140	46.57	30.85	7.45	24.69	47.86	74.00	-26.14	PK
V	23140	43.62	30.85	7.45	24.69	44.91	54.00	-9.09	AV
H	11570	44.14	31.02	8.99	25.57	47.68	74.00	-26.32	PK
H	11570	46.12	31.02	8.99	25.57	49.66	54.00	-4.34	AV
H	17355	45.30	30.55	5.77	24.66	45.18	74.00	-28.82	PK
H	17355	46.49	30.55	5.77	24.66	46.37	54.00	-7.63	AV
H	23140	45.65	30.33	6.32	24.55	46.19	74.00	-27.81	PK
H	23140	44.29	30.33	6.32	24.55	44.83	54.00	-9.17	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	54.55	30.55	5.77	24.66	54.43	74.00	-19.57	PK
V	11590	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	17385	56.39	30.33	6.32	24.55	56.93	74.00	-17.07	PK
V	17385	44.79	30.33	6.32	24.55	45.33	54.00	-8.67	AV
V	23180	45.91	30.85	7.45	24.69	47.20	74.00	-26.80	PK
V	23180	46.23	30.85	7.45	24.69	47.52	54.00	-6.48	AV
H	11590	44.70	31.02	8.99	25.57	48.24	74.00	-25.76	PK
H	11590	43.71	31.02	8.99	25.57	47.25	54.00	-6.75	AV
H	17385	44.67	30.55	5.77	24.66	44.55	74.00	-29.45	PK
H	17385	46.17	30.55	5.77	24.66	46.05	54.00	-7.95	AV
H	23180	45.98	30.33	6.32	24.55	46.52	74.00	-27.48	PK
H	23180	46.28	30.33	6.32	24.55	46.82	54.00	-7.18	AV

ANT2-802.11ac40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:5190MHz									
V	10380	52.08	30.55	5.77	24.66	51.96	74.00	-22.04	PK
V	10380	44.81	30.55	5.77	24.66	44.69	54.00	-9.31	AV
V	15570	57.42	30.33	6.32	24.55	57.96	74.00	-16.04	PK
V	15570	47.11	30.33	6.32	24.55	47.65	54.00	-6.35	AV
V	20760	43.75	30.85	7.45	24.69	45.04	74.00	-28.96	PK
V	20760	43.97	30.85	7.45	24.69	45.26	54.00	-8.74	AV
H	10380	46.40	31.02	8.99	25.57	49.94	74.00	-24.06	PK
H	10380	43.79	31.02	8.99	25.57	47.33	54.00	-6.67	AV
H	15570	45.12	30.55	5.77	24.66	45.00	74.00	-29.00	PK
H	15570	44.85	30.55	5.77	24.66	44.73	54.00	-9.27	AV
H	20760	44.68	30.33	6.32	24.55	45.22	74.00	-28.78	PK
H	20760	45.69	30.33	6.32	24.55	46.23	54.00	-7.77	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	58.56	30.55	5.77	24.66	58.44	74.00	-15.56	PK
V	10460	45.13	30.55	5.77	24.66	45.01	54.00	-8.99	AV
V	15690	56.29	30.33	6.32	24.55	56.83	74.00	-17.17	PK
V	15690	45.28	30.33	6.32	24.55	45.82	54.00	-8.18	AV
V	20920	45.47	30.85	7.45	24.69	46.76	74.00	-27.24	PK
V	20920	44.79	30.85	7.45	24.69	46.08	54.00	-7.92	AV
H	10460	45.62	31.02	8.99	25.57	49.16	74.00	-24.84	PK
H	10460	45.40	31.02	8.99	25.57	48.94	54.00	-5.06	AV
H	15690	44.97	30.55	5.77	24.66	44.85	74.00	-29.15	PK
H	15690	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	20920	46.18	30.33	6.32	24.55	46.72	74.00	-27.28	PK
H	20920	45.88	30.33	6.32	24.55	46.42	54.00	-7.58	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	53.69	30.55	5.77	24.66	53.57	74.00	-20.43	PK
V	11510	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
V	17265	55.71	30.33	6.32	24.55	56.25	74.00	-17.75	PK
V	17265	45.77	30.33	6.32	24.55	46.31	54.00	-7.69	AV
V	23020	45.45	30.85	7.45	24.69	46.74	74.00	-27.26	PK
V	23020	45.05	30.85	7.45	24.69	46.34	54.00	-7.66	AV
H	11510	43.96	31.02	8.99	25.57	47.50	74.00	-26.50	PK
H	11510	44.29	31.02	8.99	25.57	47.83	54.00	-6.17	AV
H	17265	44.13	30.55	5.77	24.66	44.01	74.00	-29.99	PK
H	17265	46.33	30.55	5.77	24.66	46.21	54.00	-7.79	AV
H	23020	44.17	30.33	6.32	24.55	44.71	74.00	-29.29	PK
H	23020	44.89	30.33	6.32	24.55	45.43	54.00	-8.57	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	53.65	30.55	5.77	24.66	53.53	74.00	-20.47	PK
V	11590	45.38	30.55	5.77	24.66	45.26	54.00	-8.74	AV
V	17385	54.95	30.33	6.32	24.55	55.49	74.00	-18.51	PK
V	17385	47.48	30.33	6.32	24.55	48.02	54.00	-5.98	AV
V	23180	46.35	30.85	7.45	24.69	47.64	74.00	-26.36	PK
V	23180	44.08	30.85	7.45	24.69	45.37	54.00	-8.63	AV
H	11590	46.35	31.02	8.99	25.57	49.89	74.00	-24.11	PK
H	11590	44.08	31.02	8.99	25.57	47.62	54.00	-6.38	AV
H	17385	45.91	30.55	5.77	24.66	45.79	74.00	-28.21	PK
H	17385	44.50	30.55	5.77	24.66	44.38	54.00	-9.62	AV
H	23180	45.73	30.33	6.32	24.55	46.27	74.00	-27.73	PK
H	23180	45.26	30.33	6.32	24.55	45.80	54.00	-8.20	AV

ANT1-802.11ac80

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	52.23	30.55	5.77	24.66	52.11	74.00	-21.89	PK
V	10420	43.62	30.55	5.77	24.66	43.50	54.00	-10.50	AV
V	15630	54.69	30.33	6.32	24.55	55.23	74.00	-18.77	PK
V	15630	46.97	30.33	6.32	24.55	47.51	54.00	-6.49	AV
V	20840	44.25	30.85	7.45	24.69	45.54	74.00	-28.46	PK
V	20840	45.90	30.85	7.45	24.69	47.19	54.00	-6.81	AV
H	10420	45.56	31.02	8.99	25.57	49.10	74.00	-24.90	PK
H	10420	45.22	31.02	8.99	25.57	48.76	54.00	-5.24	AV
H	15630	46.14	30.55	5.77	24.66	46.02	74.00	-27.98	PK
H	15630	44.83	30.55	5.77	24.66	44.71	54.00	-9.29	AV
H	20840	43.66	30.33	6.32	24.55	44.20	74.00	-29.80	PK
H	20840	46.24	30.33	6.32	24.55	46.78	54.00	-7.22	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5775MHz									
V	11550	53.23	30.55	5.77	24.66	53.11	74.00	-20.89	PK
V	11550	45.02	30.55	5.77	24.66	44.90	54.00	-9.10	AV
V	17325	57.54	30.33	6.32	24.55	58.08	74.00	-15.92	PK
V	17325	44.89	30.33	6.32	24.55	45.43	54.00	-8.57	AV
V	23100	45.96	30.85	7.45	24.69	47.25	74.00	-26.75	PK
V	23100	46.25	30.85	7.45	24.69	47.54	54.00	-6.46	AV
H	11550	44.29	31.02	8.99	25.57	47.83	74.00	-26.17	PK
H	11550	45.59	31.02	8.99	25.57	49.13	54.00	-4.87	AV
H	17325	45.09	30.55	5.77	24.66	44.97	74.00	-29.03	PK
H	17325	45.65	30.55	5.77	24.66	45.53	54.00	-8.47	AV
H	23100	45.00	30.33	6.32	24.55	45.54	74.00	-28.46	PK

H	23100	45.38	30.33	6.32	24.55	45.92	54.00	-8.08	AV
---	-------	-------	-------	------	-------	-------	-------	-------	----

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

MIMO-802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Low Channel:5180MHz									
V	10360	52.99	30.55	5.77	24.66	52.87	74.00	-21.13	PK
V	10360	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV
V	15540	56.79	30.33	6.32	24.55	57.33	74.00	-16.67	PK
V	15540	45.39	30.33	6.32	24.55	45.93	54.00	-8.07	AV
V	20720	43.94	30.85	7.45	24.69	45.23	74.00	-28.77	PK
V	20720	44.71	30.85	7.45	24.69	46.00	54.00	-8.00	AV
H	10360	45.54	31.02	8.99	25.57	49.08	74.00	-24.92	PK
H	10360	44.79	31.02	8.99	25.57	48.33	54.00	-5.67	AV
H	15540	45.73	30.55	5.77	24.66	45.61	74.00	-28.39	PK
H	15540	45.45	30.55	5.77	24.66	45.33	54.00	-8.67	AV
H	20720	44.55	30.33	6.32	24.55	45.09	74.00	-28.91	PK
H	20720	46.43	30.33	6.32	24.55	46.97	54.00	-7.03	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Middle Channel:5200MHz									
V	10400	57.85	30.55	5.77	24.66	57.73	74.00	-16.27	PK
V	10400	44.68	30.55	5.77	24.66	44.56	54.00	-9.44	AV
V	15600	56.97	30.33	6.32	24.55	57.51	74.00	-16.49	PK
V	15600	47.26	30.33	6.32	24.55	47.80	54.00	-6.20	AV
V	20800	45.32	30.85	7.45	24.69	46.61	74.00	-27.39	PK
V	20800	45.75	30.85	7.45	24.69	47.04	54.00	-6.96	AV
H	10400	45.45	31.02	8.99	25.57	48.99	74.00	-25.01	PK
H	10400	45.06	31.02	8.99	25.57	48.60	54.00	-5.40	AV
H	15600	46.41	30.55	5.77	24.66	46.29	74.00	-27.71	PK
H	15600	45.91	30.55	5.77	24.66	45.79	54.00	-8.21	AV
H	20800	45.24	30.33	6.32	24.55	45.78	74.00	-28.22	PK
H	20800	45.76	30.33	6.32	24.55	46.30	54.00	-7.70	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	55.66	30.55	5.77	24.66	55.54	74.00	-18.46	PK
V	10480	45.03	30.55	5.77	24.66	44.91	54.00	-9.09	AV
V	15720	57.55	30.33	6.32	24.55	58.09	74.00	-15.91	PK
V	15720	47.46	30.33	6.32	24.55	48.00	54.00	-6.00	AV
V	20960	43.63	30.85	7.45	24.69	44.92	74.00	-29.08	PK
V	20960	44.60	30.85	7.45	24.69	45.89	54.00	-8.11	AV
H	10480	45.05	31.02	8.99	25.57	48.59	74.00	-25.41	PK
H	10480	45.83	31.02	8.99	25.57	49.37	54.00	-4.63	AV
H	15720	43.76	30.55	5.77	24.66	43.64	74.00	-30.36	PK
H	15720	46.43	30.55	5.77	24.66	46.31	54.00	-7.69	AV
H	20960	43.98	30.33	6.32	24.55	44.52	74.00	-29.48	PK
H	20960	45.11	30.33	6.32	24.55	45.65	54.00	-8.35	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	57.71	30.55	5.77	24.66	57.59	74.00	-16.41	PK
V	11490	44.65	30.55	5.77	24.66	44.53	54.00	-9.47	AV
V	17235	57.28	30.33	6.32	24.55	57.82	74.00	-16.18	PK
V	17235	45.70	30.33	6.32	24.55	46.24	54.00	-7.76	AV
V	22980	43.99	30.85	7.45	24.69	45.28	74.00	-28.72	PK
V	22980	46.28	30.85	7.45	24.69	47.57	54.00	-6.43	AV
H	11490	44.87	31.02	8.99	25.57	48.41	74.00	-25.59	PK
H	11490	43.91	31.02	8.99	25.57	47.45	54.00	-6.55	AV
H	17235	45.88	30.55	5.77	24.66	45.76	74.00	-28.24	PK
H	17235	45.25	30.55	5.77	24.66	45.13	54.00	-8.87	AV
H	22980	45.03	30.33	6.32	24.55	45.57	74.00	-28.43	PK
H	22980	45.50	30.33	6.32	24.55	46.04	54.00	-7.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	58.04	30.55	5.77	24.66	57.92	74.00	-16.08	PK
V	11570	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
V	17355	54.66	30.33	6.32	24.55	55.20	74.00	-18.80	PK
V	17355	44.83	30.33	6.32	24.55	45.37	54.00	-8.63	AV
V	23140	46.31	30.85	7.45	24.69	47.60	74.00	-26.40	PK
V	23140	45.22	30.85	7.45	24.69	46.51	54.00	-7.49	AV
H	11570	44.39	31.02	8.99	25.57	47.93	74.00	-26.07	PK
H	11570	44.59	31.02	8.99	25.57	48.13	54.00	-5.87	AV
H	17355	45.02	30.55	5.77	24.66	44.90	74.00	-29.10	PK

H	17355	45.56	30.55	5.77	24.66	45.44	54.00	-8.56	AV
H	23140	45.91	30.33	6.32	24.55	46.45	74.00	-27.55	PK
H	23140	46.03	30.33	6.32	24.55	46.57	54.00	-7.43	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	57.75	30.55	5.77	24.66	57.63	74.00	-16.37	PK
V	11650	44.64	30.55	5.77	24.66	44.52	54.00	-9.48	AV
V	17475	54.97	30.33	6.32	24.55	55.51	74.00	-18.49	PK
V	17475	44.82	30.33	6.32	24.55	45.36	54.00	-8.64	AV
V	23300	45.29	30.85	7.45	24.69	46.58	74.00	-27.42	PK
V	23300	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	11650	45.64	31.02	8.99	25.57	49.18	74.00	-24.82	PK
H	11650	46.60	31.02	8.99	25.57	50.14	54.00	-3.86	AV
H	17475	44.02	30.55	5.77	24.66	43.90	74.00	-30.10	PK
H	17475	45.65	30.55	5.77	24.66	45.53	54.00	-8.47	AV
H	23300	46.44	30.33	6.32	24.55	46.98	74.00	-27.02	PK
H	23300	46.43	30.33	6.32	24.55	46.97	54.00	-7.03	AV

MIMO-802.11n40

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	57.22	30.55	5.77	24.66	57.10	74.00	-16.90	PK
V	10380	44.42	30.55	5.77	24.66	44.30	54.00	-9.70	AV
V	15570	55.02	30.33	6.32	24.55	55.56	74.00	-18.44	PK
V	15570	45.68	30.33	6.32	24.55	46.22	54.00	-7.78	AV
V	20760	44.14	30.85	7.45	24.69	45.43	74.00	-28.57	PK
V	20760	44.23	30.85	7.45	24.69	45.52	54.00	-8.48	AV
H	10380	45.18	31.02	8.99	25.57	48.72	74.00	-25.28	PK
H	10380	44.29	31.02	8.99	25.57	47.83	54.00	-6.17	AV
H	15570	43.82	30.55	5.77	24.66	43.70	74.00	-30.30	PK
H	15570	46.33	30.55	5.77	24.66	46.21	54.00	-7.79	AV
H	20760	44.72	30.33	6.32	24.55	45.26	74.00	-28.74	PK
H	20760	44.02	30.33	6.32	24.55	44.56	54.00	-9.44	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	55.44	30.55	5.77	24.66	55.32	74.00	-18.68	PK
V	10460	45.27	30.55	5.77	24.66	45.15	54.00	-8.85	AV
V	15690	55.58	30.33	6.32	24.55	56.12	74.00	-17.88	PK
V	15690	46.73	30.33	6.32	24.55	47.27	54.00	-6.73	AV
V	20920	44.13	30.85	7.45	24.69	45.42	74.00	-28.58	PK
V	20920	46.03	30.85	7.45	24.69	47.32	54.00	-6.68	AV
H	10460	46.46	31.02	8.99	25.57	50.00	74.00	-24.00	PK
H	10460	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV
H	15690	45.35	30.55	5.77	24.66	45.23	74.00	-28.77	PK

H	15690	44.56	30.55	5.77	24.66	44.44	54.00	-9.56	AV
H	20920	45.99	30.33	6.32	24.55	46.53	74.00	-27.47	PK
H	20920	45.94	30.33	6.32	24.55	46.48	54.00	-7.52	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	54.07	30.55	5.77	24.66	53.95	74.00	-20.05	PK
V	11510	43.74	30.55	5.77	24.66	43.62	54.00	-10.38	AV
V	17265	54.66	30.33	6.32	24.55	55.20	74.00	-18.80	PK
V	17265	46.69	30.33	6.32	24.55	47.23	54.00	-6.77	AV
V	23020	44.03	30.85	7.45	24.69	45.32	74.00	-28.68	PK
V	23020	46.02	30.85	7.45	24.69	47.31	54.00	-6.69	AV
H	11510	45.76	31.02	8.99	25.57	49.30	74.00	-24.70	PK
H	11510	45.23	31.02	8.99	25.57	48.77	54.00	-5.23	AV
H	17265	44.11	30.55	5.77	24.66	43.99	74.00	-30.01	PK
H	17265	43.98	30.55	5.77	24.66	43.86	54.00	-10.14	AV
H	23020	43.95	30.33	6.32	24.55	44.49	74.00	-29.51	PK
H	23020	45.02	30.33	6.32	24.55	45.56	54.00	-8.44	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	58.28	30.55	5.77	24.66	58.16	74.00	-15.84	PK
V	11590	45.13	30.55	5.77	24.66	45.01	54.00	-8.99	AV
V	17385	56.85	30.33	6.32	24.55	57.39	74.00	-16.61	PK
V	17385	47.05	30.33	6.32	24.55	47.59	54.00	-6.41	AV
V	23180	43.80	30.85	7.45	24.69	45.09	74.00	-28.91	PK
V	23180	46.60	30.85	7.45	24.69	47.89	54.00	-6.11	AV
H	11590	45.82	31.02	8.99	25.57	49.36	74.00	-24.64	PK
H	11590	46.08	31.02	8.99	25.57	49.62	54.00	-4.38	AV
H	17385	45.95	30.55	5.77	24.66	45.83	74.00	-28.17	PK
H	17385	44.57	30.55	5.77	24.66	44.45	54.00	-9.55	AV
H	23180	43.87	30.33	6.32	24.55	44.41	74.00	-29.59	PK
H	23180	44.58	30.33	6.32	24.55	45.12	54.00	-8.88	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

MIMO--802.11ac20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	54.17	30.55	5.77	24.66	54.05	74.00	-19.95	PK
V	10360	44.73	30.55	5.77	24.66	44.61	54.00	-9.39	AV
V	15540	55.06	30.33	6.32	24.55	55.60	74.00	-18.40	PK
V	15540	45.51	30.33	6.32	24.55	46.05	54.00	-7.95	AV
V	20720	44.93	30.85	7.45	24.69	46.22	74.00	-27.78	PK
V	20720	46.33	30.85	7.45	24.69	47.62	54.00	-6.38	AV
H	10360	45.68	31.02	8.99	25.57	49.22	74.00	-24.78	PK
H	10360	43.93	31.02	8.99	25.57	47.47	54.00	-6.53	AV
H	15540	44.87	30.55	5.77	24.66	44.75	74.00	-29.25	PK
H	15540	44.24	30.55	5.77	24.66	44.12	54.00	-9.88	AV
H	20720	45.05	30.33	6.32	24.55	45.59	74.00	-28.41	PK
H	20720	45.73	30.33	6.32	24.55	46.27	54.00	-7.73	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	51.68	30.55	5.77	24.66	51.56	74.00	-22.44	PK
V	10400	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
V	15600	56.11	30.33	6.32	24.55	56.65	74.00	-17.35	PK
V	15600	47.09	30.33	6.32	24.55	47.63	54.00	-6.37	AV
V	20800	45.27	30.85	7.45	24.69	46.56	74.00	-27.44	PK
V	20800	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV
H	10400	45.35	31.02	8.99	25.57	48.89	74.00	-25.11	PK
H	10400	44.65	31.02	8.99	25.57	48.19	54.00	-5.81	AV
H	15600	44.55	30.55	5.77	24.66	44.43	74.00	-29.57	PK
H	15600	45.06	30.55	5.77	24.66	44.94	54.00	-9.06	AV
H	20800	45.79	30.33	6.32	24.55	46.33	74.00	-27.67	PK
H	20800	45.06	30.33	6.32	24.55	45.60	54.00	-8.40	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	55.19	30.55	5.77	24.66	55.07	74.00	-18.93	PK
V	10480	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
V	15720	56.06	30.33	6.32	24.55	56.60	74.00	-17.40	PK
V	15720	46.82	30.33	6.32	24.55	47.36	54.00	-6.64	AV
V	20960	46.16	30.85	7.45	24.69	47.45	74.00	-26.55	PK
V	20960	43.74	30.85	7.45	24.69	45.03	54.00	-8.97	AV
H	10480	46.07	31.02	8.99	25.57	49.61	74.00	-24.39	PK
H	10480	46.08	31.02	8.99	25.57	49.62	54.00	-4.38	AV
H	15720	44.27	30.55	5.77	24.66	44.15	74.00	-29.85	PK
H	15720	45.09	30.55	5.77	24.66	44.97	54.00	-9.03	AV
H	20960	44.19	30.33	6.32	24.55	44.73	74.00	-29.27	PK
H	20960	45.43	30.33	6.32	24.55	45.97	54.00	-8.03	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	54.68	30.55	5.77	24.66	54.56	74.00	-19.44	PK
V	11490	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
V	17235	56.37	30.33	6.32	24.55	56.91	74.00	-17.09	PK
V	17235	45.73	30.33	6.32	24.55	46.27	54.00	-7.73	AV
V	22980	45.75	30.85	7.45	24.69	47.04	74.00	-26.96	PK
V	22980	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV
H	11490	45.21	31.02	8.99	25.57	48.75	74.00	-25.25	PK
H	11490	45.49	31.02	8.99	25.57	49.03	54.00	-4.97	AV
H	17235	45.79	30.55	5.77	24.66	45.67	74.00	-28.33	PK
H	17235	45.21	30.55	5.77	24.66	45.09	54.00	-8.91	AV
H	22980	45.92	30.33	6.32	24.55	46.46	74.00	-27.54	PK
H	22980	45.32	30.33	6.32	24.55	45.86	54.00	-8.14	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	55.20	30.55	5.77	24.66	55.08	74.00	-18.92	PK
V	11570	43.37	30.55	5.77	24.66	43.25	54.00	-10.75	AV
V	17355	55.38	30.33	6.32	24.55	55.92	74.00	-18.08	PK
V	17355	47.57	30.33	6.32	24.55	48.11	54.00	-5.89	AV
V	23140	46.41	30.85	7.45	24.69	47.70	74.00	-26.30	PK
V	23140	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
H	11570	45.15	31.02	8.99	25.57	48.69	74.00	-25.31	PK
H	11570	44.02	31.02	8.99	25.57	47.56	54.00	-6.44	AV
H	17355	45.20	30.55	5.77	24.66	45.08	74.00	-28.92	PK
H	17355	46.34	30.55	5.77	24.66	46.22	54.00	-7.78	AV
H	23140	44.50	30.33	6.32	24.55	45.04	74.00	-28.96	PK
H	23140	45.29	30.33	6.32	24.55	45.83	54.00	-8.17	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.88	30.55	5.77	24.66	56.76	74.00	-17.24	PK
V	11590	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
V	17385	55.08	30.33	6.32	24.55	55.62	74.00	-18.38	PK
V	17385	44.66	30.33	6.32	24.55	45.20	54.00	-8.80	AV
V	23180	44.66	30.85	7.45	24.69	45.95	74.00	-28.05	PK
V	23180	46.47	30.85	7.45	24.69	47.76	54.00	-6.24	AV
H	11590	44.69	31.02	8.99	25.57	48.23	74.00	-25.77	PK
H	11590	43.93	31.02	8.99	25.57	47.47	54.00	-6.53	AV
H	17385	44.47	30.55	5.77	24.66	44.35	74.00	-29.65	PK
H	17385	44.25	30.55	5.77	24.66	44.13	54.00	-9.87	AV
H	23180	43.72	30.33	6.32	24.55	44.26	74.00	-29.74	PK
H	23180	43.92	30.33	6.32	24.55	44.46	54.00	-9.54	AV

MIMO-802.11ac40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	51.89	30.55	5.77	24.66	51.77	74.00	-22.23	PK
V	10380	44.39	30.55	5.77	24.66	44.27	54.00	-9.73	AV
V	15570	56.49	30.33	6.32	24.55	57.03	74.00	-16.97	PK
V	15570	47.32	30.33	6.32	24.55	47.86	54.00	-6.14	AV
V	20760	44.56	30.85	7.45	24.69	45.85	74.00	-28.15	PK
V	20760	44.26	30.85	7.45	24.69	45.55	54.00	-8.45	AV
H	10380	45.19	31.02	8.99	25.57	48.73	74.00	-25.27	PK
H	10380	43.70	31.02	8.99	25.57	47.24	54.00	-6.76	AV
H	15570	45.90	30.55	5.77	24.66	45.78	74.00	-28.22	PK
H	15570	46.11	30.55	5.77	24.66	45.99	54.00	-8.01	AV
H	20760	44.54	30.33	6.32	24.55	45.08	74.00	-28.92	PK
H	20760	45.53	30.33	6.32	24.55	46.07	54.00	-7.93	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:5230MHz									
V	10460	54.35	30.55	5.77	24.66	54.23	74.00	-19.77	PK
V	10460	44.16	30.55	5.77	24.66	44.04	54.00	-9.96	AV
V	15690	56.10	30.33	6.32	24.55	56.64	74.00	-17.36	PK
V	15690	46.53	30.33	6.32	24.55	47.07	54.00	-6.93	AV
V	20920	43.77	30.85	7.45	24.69	45.06	74.00	-28.94	PK
V	20920	45.90	30.85	7.45	24.69	47.19	54.00	-6.81	AV
H	10460	45.67	31.02	8.99	25.57	49.21	74.00	-24.79	PK
H	10460	44.11	31.02	8.99	25.57	47.65	54.00	-6.35	AV
H	15690	46.31	30.55	5.77	24.66	46.19	74.00	-27.81	PK
H	15690	43.90	30.55	5.77	24.66	43.78	54.00	-10.22	AV
H	20920	46.11	30.33	6.32	24.55	46.65	74.00	-27.35	PK
H	20920	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	54.20	30.55	5.77	24.66	54.08	74.00	-19.92	PK
V	11510	44.61	30.55	5.77	24.66	44.49	54.00	-9.51	AV
V	17265	57.08	30.33	6.32	24.55	57.62	74.00	-16.38	PK
V	17265	44.70	30.33	6.32	24.55	45.24	54.00	-8.76	AV
V	23020	45.06	30.85	7.45	24.69	46.35	74.00	-27.65	PK
V	23020	45.24	30.85	7.45	24.69	46.53	54.00	-7.47	AV
H	11510	45.02	31.02	8.99	25.57	48.56	74.00	-25.44	PK
H	11510	44.55	31.02	8.99	25.57	48.09	54.00	-5.91	AV
H	17265	43.75	30.55	5.77	24.66	43.63	74.00	-30.37	PK
H	17265	45.10	30.55	5.77	24.66	44.98	54.00	-9.02	AV
H	23020	44.43	30.33	6.32	24.55	44.97	74.00	-29.03	PK
H	23020	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	54.29	30.55	5.77	24.66	54.17	74.00	-19.83	PK
V	11590	44.03	30.55	5.77	24.66	43.91	54.00	-10.09	AV
V	17385	56.12	30.33	6.32	24.55	56.66	74.00	-17.34	PK
V	17385	45.60	30.33	6.32	24.55	46.14	54.00	-7.86	AV
V	23180	46.05	30.85	7.45	24.69	47.34	74.00	-26.66	PK
V	23180	46.27	30.85	7.45	24.69	47.56	54.00	-6.44	AV
H	11590	43.69	31.02	8.99	25.57	47.23	74.00	-26.77	PK
H	11590	45.21	31.02	8.99	25.57	48.75	54.00	-5.25	AV
H	17385	43.61	30.55	5.77	24.66	43.49	74.00	-30.51	PK
H	17385	45.41	30.55	5.77	24.66	45.29	54.00	-8.71	AV
H	23180	44.46	30.33	6.32	24.55	45.00	74.00	-29.00	PK
H	23180	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV

MIMO-802.11ac80

Polar (H/V)	Freque ncy	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	53.91	30.55	5.77	24.66	53.79	74.00	-20.21	PK
V	10420	44.13	30.55	5.77	24.66	44.01	54.00	-9.99	AV
V	15630	55.12	30.33	6.32	24.55	55.66	74.00	-18.34	PK
V	15630	44.80	30.33	6.32	24.55	45.34	54.00	-8.66	AV
V	20840	45.45	30.85	7.45	24.69	46.74	74.00	-27.26	PK
V	20840	44.74	30.85	7.45	24.69	46.03	54.00	-7.97	AV
H	10420	46.04	31.02	8.99	25.57	49.58	74.00	-24.42	PK
H	10420	44.79	31.02	8.99	25.57	48.33	54.00	-5.67	AV
H	15630	44.73	30.55	5.77	24.66	44.61	74.00	-29.39	PK
H	15630	44.27	30.55	5.77	24.66	44.15	54.00	-9.85	AV
H	20840	46.21	30.33	6.32	24.55	46.75	74.00	-27.25	PK
H	20840	45.61	30.33	6.32	24.55	46.15	54.00	-7.85	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5775MHz									
V	11550	52.46	30.55	5.77	24.66	52.34	74.00	-21.66	PK
V	11550	44.68	30.55	5.77	24.66	44.56	54.00	-9.44	AV
V	17325	57.04	30.33	6.32	24.55	57.58	74.00	-16.42	PK
V	17325	47.06	30.33	6.32	24.55	47.60	54.00	-6.40	AV
V	23100	44.46	30.85	7.45	24.69	45.75	74.00	-28.25	PK
V	23100	44.31	30.85	7.45	24.69	45.60	54.00	-8.40	AV
H	11550	44.74	31.02	8.99	25.57	48.28	74.00	-25.72	PK
H	11550	44.39	31.02	8.99	25.57	47.93	54.00	-6.07	AV
H	17325	44.71	30.55	5.77	24.66	44.59	74.00	-29.41	PK
H	17325	45.26	30.55	5.77	24.66	45.14	54.00	-8.86	AV
H	23100	45.42	30.33	6.32	24.55	45.96	74.00	-28.04	PK
H	23100	46.16	30.33	6.32	24.55	46.70	54.00	-7.30	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Radiated Band Edge Test:

ANT1

Worse case mode:		802.11a		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.40	-0.12	55.52	74	-18.48	peak	H
	41.14	-0.12	41.26	54	-12.74	AV	H
5150	55.61	-0.12	55.73	74	-18.27	peak	V
	38.88	-0.12	39.00	54	-15.00	AV	V

Worse case mode:		802.11a		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	57.40	-0.12	57.52	74	-16.48	peak	H
	40.10	-0.12	40.22	54	-13.78	AV	H
5250	54.44	-0.12	54.56	74	-19.44	peak	V
	40.66	-0.12	40.78	54	-13.22	AV	V

Worse case mode:		802.11a		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	58.04	-0.12	58.16	68.2	-10.04	peak	H
5700	83.21	-0.12	83.33	105.2	-21.87	peak	H
5720	88.67	-0.12	88.79	110.8	-22.01	peak	H
5725	93.87	-0.12	93.99	122.2	-28.21	peak	H
5650	57.23	-0.12	57.35	68.2	-10.85	peak	V
5700	82.92	-0.12	83.04	105.2	-22.16	peak	V
5720	87.29	-0.12	87.41	110.8	-23.39	peak	V
5725	96.15	-0.12	96.27	122.2	-25.93	peak	V

Worse case mode:		802.11a		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	100.91	-0.12	101.03	122.2	-21.17	peak	H
5855	83.32	-0.12	83.44	110.8	-27.36	peak	H
5875	86.51	-0.12	86.63	105.2	-18.57	peak	H
5925	50.29	-0.12	50.41	68.2	-17.79	peak	H
5850	99.66	-0.12	99.78	122.2	-22.42	peak	V
5855	83.45	-0.12	83.57	110.8	-27.23	peak	V
5875	86.87	-0.12	86.99	105.2	-18.21	peak	V
5925	52.76	-0.12	52.88	68.2	-15.32	peak	V

Worse case mode:		802.11n20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	57.05	-0.12	57.17	74	-16.83	peak	H
	41.83	-0.12	41.95	54	-12.05	AV	H
5150	56.81	-0.12	56.93	74	-17.07	peak	V
	40.66	-0.12	40.78	54	-13.22	AV	V

Worse case mode:		802.11n20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	56.08	-0.12	56.20	74	-17.80	peak	H
	41.38	-0.12	41.50	54	-12.50	AV	H
5250	57.20	-0.12	57.32	74	-16.68	peak	V
	39.06	-0.12	39.18	54	-14.82	AV	V

Worse case mode:		802.11n20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	57.16	-0.12	57.28	68.2	-10.92	peak	H
5700	82.91	-0.12	83.03	105.2	-22.17	peak	H
5720	88.63	-0.12	88.75	110.8	-22.05	peak	H
5725	94.80	-0.12	94.92	122.2	-27.28	peak	H
5650	57.15	-0.12	57.27	68.2	-10.93	peak	V
5700	85.03	-0.12	85.15	105.2	-20.05	peak	V
5720	85.16	-0.12	85.28	110.8	-25.52	peak	V
5725	94.90	-0.12	95.02	122.2	-27.18	peak	V

Worse case mode:		802.11n20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	99.07	-0.12	99.19	122.2	-23.01	peak	H
5855	84.37	-0.12	84.49	110.8	-26.31	peak	H
5875	86.86	-0.12	86.98	105.2	-18.22	peak	H
5925	51.50	-0.12	51.62	68.2	-16.58	peak	H
5850	100.60	-0.12	100.72	122.2	-21.48	peak	V
5855	84.40	-0.12	84.52	110.8	-26.28	peak	V
5875	87.29	-0.12	87.41	105.2	-17.79	peak	V
5925	51.72	-0.12	51.84	68.2	-16.36	peak	V

Worse case mode:		802.11n40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	56.95	-0.12	57.07	74	-16.93	peak	H
	41.70	-0.12	41.82	54	-12.18	AV	H
5150	55.66	-0.12	55.78	74	-18.22	peak	V
	38.66	-0.12	38.78	54	-15.22	AV	V

Worse case mode:		802.11n40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	55.32	-0.12	55.44	74	-18.56	peak	H
	40.51	-0.12	40.63	54	-13.37	AV	H
5250	54.94	-0.12	55.06	74	-18.94	peak	V
	38.82	-0.12	38.94	54	-15.06	AV	V

Worse case mode:		802.11n40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	55.21	-0.12	55.33	68.2	-12.87	peak	H
5700	82.83	-0.12	82.95	105.2	-22.25	peak	H
5720	88.57	-0.12	88.69	110.8	-22.11	peak	H
5725	95.02	-0.12	95.14	122.2	-27.06	peak	H
5650	55.50	-0.12	55.62	68.2	-12.58	peak	V
5700	84.98	-0.12	85.10	105.2	-20.10	peak	V
5720	86.22	-0.12	86.34	110.8	-24.46	peak	V
5725	94.80	-0.12	94.92	122.2	-27.28	peak	V

Worse case mode:		802.11n40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	98.35	-0.12	98.47	122.2	-23.73	peak	H
5855	83.66	-0.12	83.78	110.8	-27.02	peak	H
5875	87.01	-0.12	87.13	105.2	-18.07	peak	H
5925	51.98	-0.12	52.10	68.2	-16.10	peak	H
5850	100.24	-0.12	100.36	122.2	-21.84	peak	V
5855	85.09	-0.12	85.21	110.8	-25.59	peak	V
5875	86.03	-0.12	86.15	105.2	-19.05	peak	V
5925	51.45	-0.12	51.57	68.2	-16.63	peak	V

Worse case mode:		802.11ac20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	57.36	-0.12	57.48	74	-16.52	peak	H
	39.61	-0.12	39.73	54	-14.27	AV	H
5150	54.65	-0.12	54.77	74	-19.23	peak	V
	38.28	-0.12	38.40	54	-15.60	AV	V

Worse case mode:		802.11ac20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	56.07	-0.12	56.19	74	-17.81	peak	H
	42.16	-0.12	42.28	54	-11.72	AV	H
5250	55.74	-0.12	55.86	74	-18.14	peak	V
	39.87	-0.12	39.99	54	-14.01	AV	V

Worse case mode:		802.11ac20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	57.54	-0.12	57.66	68.2	-10.54	peak	H
5700	85.04	-0.12	85.16	105.2	-20.04	peak	H
5720	88.91	-0.12	89.03	110.8	-21.77	peak	H
5725	93.45	-0.12	93.57	122.2	-28.63	peak	H
5650	55.82	-0.12	55.94	68.2	-12.26	peak	V
5700	83.00	-0.12	83.12	105.2	-22.08	peak	V
5720	86.50	-0.12	86.62	110.8	-24.18	peak	V
5725	95.23	-0.12	95.35	122.2	-26.85	peak	V

Worse case mode:		802.11ac20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	99.04	-0.12	99.16	122.2	-23.04	peak	H
5855	82.68	-0.12	82.80	110.8	-28.00	peak	H
5875	87.81	-0.12	87.93	105.2	-17.27	peak	H
5925	51.71	-0.12	51.83	68.2	-16.37	peak	H
5850	99.25	-0.12	99.37	122.2	-22.83	peak	V
5855	83.96	-0.12	84.08	110.8	-26.72	peak	V
5875	86.67	-0.12	86.79	105.2	-18.41	peak	V
5925	52.24	-0.12	52.36	68.2	-15.84	peak	V

Worse case mode:		802.11ac40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.52	-0.12	55.64	74	-18.36	peak	H
	40.27	-0.12	40.39	54	-13.61	AV	H
5150	56.52	-0.12	56.64	74	-17.36	peak	V
	40.34	-0.12	40.46	54	-13.54	AV	V

Worse case mode:		802.11ac40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	57.92	-0.12	58.04	74	-15.96	peak	H
	40.18	-0.12	40.30	54	-13.70	AV	H
5250	56.89	-0.12	57.01	74	-16.99	peak	V
	38.46	-0.12	38.58	54	-15.42	AV	V

Worse case mode:		802.11ac40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	57.98	-0.12	58.10	68.2	-10.10	peak	H
5700	84.63	-0.12	84.75	105.2	-20.45	peak	H
5720	88.77	-0.12	88.89	110.8	-21.91	peak	H
5725	93.97	-0.12	94.09	122.2	-28.11	peak	H
5650	57.45	-0.12	57.57	68.2	-10.63	peak	V
5700	83.83	-0.12	83.95	105.2	-21.25	peak	V
5720	85.28	-0.12	85.40	110.8	-25.40	peak	V
5725	95.42	-0.12	95.54	122.2	-26.66	peak	V

Worse case mode:		802.11ac40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	100.27	-0.12	100.39	122.2	-21.81	peak	H
5855	85.07	-0.12	85.19	110.8	-25.61	peak	H
5875	86.23	-0.12	86.35	105.2	-18.85	peak	H
5925	50.88	-0.12	51.00	68.2	-17.20	peak	H
5850	99.53	-0.12	99.65	122.2	-22.55	peak	V
5855	83.38	-0.12	83.50	110.8	-27.30	peak	V
5875	87.05	-0.12	87.17	105.2	-18.03	peak	V
5925	50.43	-0.12	50.55	68.2	-17.65	peak	V

Worse case mode:		802.11ac80		Test channel:		42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	57.64	-0.12	57.76	74	-16.24	peak	H
	41.97	-0.12	42.09	54	-11.91	AV	H
5150	54.51	-0.12	54.63	74	-19.37	peak	V
	38.31	-0.12	38.43	54	-15.57	AV	V
5250	55.54	-0.12	55.66	74	-18.34	peak	H
	42.30	-0.12	42.42	54	-11.58	AV	H
5250	55.30	-0.12	55.42	74	-18.58	peak	V
	40.17	-0.12	40.29	54	-13.71	AV	V

Worse case mode:		802.11ac80		Test channel:		155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	57.76	-0.12	57.88	68.2	-10.32	peak	H
5700	84.14	-0.12	84.26	105.2	-20.94	peak	H
5720	87.10	-0.12	87.22	110.8	-23.58	peak	H
5725	95.95	-0.12	96.07	122.2	-26.13	peak	H
5650	56.83	-0.12	56.95	68.2	-11.25	peak	V
5700	85.26	-0.12	85.38	105.2	-19.82	peak	V
5720	86.96	-0.12	87.08	110.8	-23.72	peak	V
5725	95.83	-0.12	95.95	122.2	-26.25	peak	V
5850	98.29	-0.12	98.41	122.2	-23.79	peak	H
5855	84.86	-0.12	84.98	110.8	-25.82	peak	H
5875	87.88	-0.12	88.00	105.2	-17.20	peak	H
5925	51.44	-0.12	51.56	68.2	-16.64	peak	H
5850	99.80	-0.12	99.92	122.2	-22.28	peak	V
5855	85.39	-0.12	85.51	110.8	-25.29	peak	V
5875	86.64	-0.12	86.76	105.2	-18.44	peak	V
5925	51.13	-0.12	51.25	68.2	-16.95	peak	V

ANT2

Worse case mode:		802.11a		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.12	-0.12	55.24	74	-18.76	peak	H
	41.75	-0.12	41.87	54	-12.13	AV	H
5150	56.55	-0.12	56.67	74	-17.33	peak	V
	38.87	-0.12	38.99	54	-15.01	AV	V

Worse case mode:		802.11a		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	55.77	-0.12	55.89	74	-18.11	peak	H
	40.59	-0.12	40.71	54	-13.29	AV	H
5250	56.59	-0.12	56.71	74	-17.29	peak	V
	40.66	-0.12	40.78	54	-13.22	AV	V

Worse case mode:		802.11a		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	56.98	-0.12	57.10	68.2	-11.10	peak	H
5700	83.60	-0.12	83.72	105.2	-21.48	peak	H
5720	87.85	-0.12	87.97	110.8	-22.83	peak	H
5725	94.53	-0.12	94.65	122.2	-27.55	peak	H
5650	56.08	-0.12	56.20	68.2	-12.00	peak	V
5700	84.15	-0.12	84.27	105.2	-20.93	peak	V
5720	87.25	-0.12	87.37	110.8	-23.43	peak	V
5725	93.73	-0.12	93.85	122.2	-28.35	peak	V

Worse case mode:		802.11a		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	98.39	-0.12	98.51	122.2	-23.69	peak	H
5855	84.40	-0.12	84.52	110.8	-26.28	peak	H
5875	88.96	-0.12	89.08	105.2	-16.12	peak	H
5925	51.39	-0.12	51.51	68.2	-16.69	peak	H
5850	99.80	-0.12	99.92	122.2	-22.28	peak	V
5855	84.37	-0.12	84.49	110.8	-26.31	peak	V
5875	85.89	-0.12	86.01	105.2	-19.19	peak	V
5925	52.62	-0.12	52.74	68.2	-15.46	peak	V

Worse case mode:		802.11n20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.63	-0.12	55.75	74	-18.25	peak	H
	40.43	-0.12	40.55	54	-13.45	AV	H
5150	56.33	-0.12	56.45	74	-17.55	peak	V
	41.00	-0.12	41.12	54	-12.88	AV	V

Worse case mode:		802.11n20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	57.01	-0.12	57.13	74	-16.87	peak	H
	41.44	-0.12	41.56	54	-12.44	AV	H
5250	55.73	-0.12	55.85	74	-18.15	peak	V
	38.69	-0.12	38.81	54	-15.19	AV	V

Worse case mode:		802.11n20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	55.11	-0.12	55.23	68.2	-12.97	peak	H
5700	83.45	-0.12	83.57	105.2	-21.63	peak	H
5720	88.14	-0.12	88.26	110.8	-22.54	peak	H
5725	95.21	-0.12	95.33	122.2	-26.87	peak	H
5650	55.48	-0.12	55.60	68.2	-12.60	peak	V
5700	83.43	-0.12	83.55	105.2	-21.65	peak	V
5720	85.49	-0.12	85.61	110.8	-25.19	peak	V
5725	94.62	-0.12	94.74	122.2	-27.46	peak	V

Worse case mode:		802.11n20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	100.56	-0.12	100.68	122.2	-21.52	peak	H
5855	83.88	-0.12	84.00	110.8	-26.80	peak	H
5875	87.25	-0.12	87.37	105.2	-17.83	peak	H
5925	52.42	-0.12	52.54	68.2	-15.66	peak	H
5850	100.48	-0.12	100.60	122.2	-21.60	peak	V
5855	83.54	-0.12	83.66	110.8	-27.14	peak	V
5875	85.32	-0.12	85.44	105.2	-19.76	peak	V
5925	51.94	-0.12	52.06	68.2	-16.14	peak	V

Worse case mode:		802.11n40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.58	-0.12	55.70	74	-18.30	peak	H
	39.77	-0.12	39.89	54	-14.11	AV	H
5150	55.71	-0.12	55.83	74	-18.17	peak	V
	39.49	-0.12	39.61	54	-14.39	AV	V

Worse case mode:		802.11n40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	55.58	-0.12	55.70	74	-18.30	peak	H
	39.73	-0.12	39.85	54	-14.15	AV	H
5250	56.40	-0.12	56.52	74	-17.48	peak	V
	38.59	-0.12	38.71	54	-15.29	AV	V

Worse case mode:		802.11n40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	55.67	-0.12	55.79	68.2	-12.41	peak	H
5700	83.41	-0.12	83.53	105.2	-21.67	peak	H
5720	86.11	-0.12	86.23	110.8	-24.57	peak	H
5725	93.94	-0.12	94.06	122.2	-28.14	peak	H
5650	57.20	-0.12	57.32	68.2	-10.88	peak	V
5700	83.74	-0.12	83.86	105.2	-21.34	peak	V
5720	86.51	-0.12	86.63	110.8	-24.17	peak	V
5725	95.77	-0.12	95.89	122.2	-26.31	peak	V

Worse case mode:		802.11n40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	100.85	-0.12	100.97	122.2	-21.23	peak	H
5855	84.93	-0.12	85.05	110.8	-25.75	peak	H
5875	86.62	-0.12	86.74	105.2	-18.46	peak	H
5925	51.43	-0.12	51.55	68.2	-16.65	peak	H
5850	100.78	-0.12	100.90	122.2	-21.30	peak	V
5855	85.21	-0.12	85.33	110.8	-25.47	peak	V
5875	87.15	-0.12	87.27	105.2	-17.93	peak	V
5925	51.26	-0.12	51.38	68.2	-16.82	peak	V

Worse case mode:		802.11ac20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	57.51	-0.12	57.63	74	-16.37	peak	H
	39.42	-0.12	39.54	54	-14.46	AV	H
5150	57.28	-0.12	57.40	74	-16.60	peak	V
	39.17	-0.12	39.29	54	-14.71	AV	V

Worse case mode:		802.11ac20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	56.52	-0.12	56.64	74	-17.36	peak	H
	39.76	-0.12	39.88	54	-14.12	AV	H
5250	57.19	-0.12	57.31	74	-16.69	peak	V
	38.48	-0.12	38.60	54	-15.40	AV	V

Worse case mode:		802.11ac20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	56.28	-0.12	56.40	68.2	-11.80	peak	H
5700	84.44	-0.12	84.56	105.2	-20.64	peak	H
5720	87.89	-0.12	88.01	110.8	-22.79	peak	H
5725	93.96	-0.12	94.08	122.2	-28.12	peak	H
5650	57.62	-0.12	57.74	68.2	-10.46	peak	V
5700	85.34	-0.12	85.46	105.2	-19.74	peak	V
5720	86.81	-0.12	86.93	110.8	-23.87	peak	V
5725	93.67	-0.12	93.79	122.2	-28.41	peak	V

Worse case mode:		802.11ac20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	101.21	-0.12	101.33	122.2	-20.87	peak	H
5855	82.50	-0.12	82.62	110.8	-28.18	peak	H
5875	88.67	-0.12	88.79	105.2	-16.41	peak	H
5925	51.42	-0.12	51.54	68.2	-16.66	peak	H
5850	101.59	-0.12	101.71	122.2	-20.49	peak	V
5855	83.30	-0.12	83.42	110.8	-27.38	peak	V
5875	87.37	-0.12	87.49	105.2	-17.71	peak	V
5925	50.53	-0.12	50.65	68.2	-17.55	peak	V

Worse case mode:		802.11ac40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	56.43	-0.12	56.55	74	-17.45	peak	H
	40.05	-0.12	40.17	54	-13.83	AV	H
5150	54.67	-0.12	54.79	74	-19.21	peak	V
	40.66	-0.12	40.78	54	-13.22	AV	V

Worse case mode:		802.11ac40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	57.66	-0.12	57.78	74	-16.22	peak	H
	40.37	-0.12	40.49	54	-13.51	AV	H
5250	56.57	-0.12	56.69	74	-17.31	peak	V
	39.92	-0.12	40.04	54	-13.96	AV	V

Worse case mode:		802.11 ac40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	55.27	-0.12	55.39	68.2	-12.81	peak	H
5700	84.88	-0.12	85.00	105.2	-20.20	peak	H
5720	87.00	-0.12	87.12	110.8	-23.68	peak	H
5725	95.81	-0.12	95.93	122.2	-26.27	peak	H
5650	56.33	-0.12	56.45	68.2	-11.75	peak	V
5700	82.93	-0.12	83.05	105.2	-22.15	peak	V
5720	84.93	-0.12	85.05	110.8	-25.75	peak	V
5725	95.92	-0.12	96.04	122.2	-26.16	peak	V

Worse case mode:		802.11n20		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	101.20	-0.12	101.32	122.2	-20.88	peak	H
5855	84.48	-0.12	84.60	110.8	-26.20	peak	H
5875	87.60	-0.12	87.72	105.2	-17.48	peak	H
5925	52.76	-0.12	52.88	68.2	-15.32	peak	H
5850	99.17	-0.12	99.29	122.2	-22.91	peak	V
5855	84.69	-0.12	84.81	110.8	-25.99	peak	V
5875	85.16	-0.12	85.28	105.2	-19.92	peak	V
5925	52.58	-0.12	52.70	68.2	-15.50	peak	V

Worse case mode:		802.11ac80		Test channel:		42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	56.31	-0.12	56.43	74	-17.57	peak	H
	41.38	-0.12	41.50	54	-12.50	AV	H
5150	56.52	-0.12	56.64	74	-17.36	peak	V
	38.67	-0.12	38.79	54	-15.21	AV	V
5250	57.45	-0.12	57.57	74	-16.43	peak	H
	42.28	-0.12	42.40	54	-11.60	AV	H
5250	57.07	-0.12	57.19	74	-16.81	peak	V
	39.46	-0.12	39.58	54	-14.42	AV	V

Worse case mode:		802.11ac80		Test channel:		155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	55.22	-0.12	55.34	68.2	-12.86	peak	H
5700	85.20	-0.12	85.32	105.2	-19.88	peak	H
5720	88.83	-0.12	88.95	110.8	-21.85	peak	H
5725	95.69	-0.12	95.81	122.2	-26.39	peak	H
5650	57.71	-0.12	57.83	68.2	-10.37	peak	V
5700	83.75	-0.12	83.87	105.2	-21.33	peak	V
5720	84.98	-0.12	85.10	110.8	-25.70	peak	V
5725	93.76	-0.12	93.88	122.2	-28.32	peak	V
5850	99.82	-0.12	99.94	122.2	-22.26	peak	H
5855	85.13	-0.12	85.25	110.8	-25.55	peak	H
5875	88.34	-0.12	88.46	105.2	-16.74	peak	H
5925	49.83	-0.12	49.95	68.2	-18.25	peak	H
5850	99.76	-0.12	99.88	122.2	-22.32	peak	V
5855	84.68	-0.12	84.80	110.8	-26.00	peak	V
5875	86.22	-0.12	86.34	105.2	-18.86	peak	V
5925	51.91	-0.12	52.03	68.2	-16.17	peak	V

Factor =Antenna Factor + Cable Loss – Pre-amplifier,

5. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)
Test Method:	KDB 789033 D02 v02r01

5.1 APPLIED PROCEDURES / LIMIT

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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.

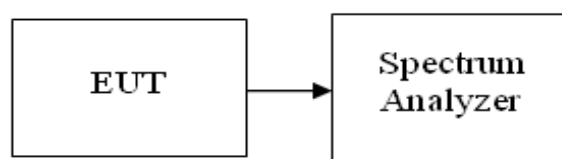
LIMIT:	U-NII-1	17DBM/MHZ
	U-NII-3	30DBM/500KHZ

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V
Test Mode :	TX frequency band 1&band4		

BAND1

802.11 Mode	Channel No.	Frequency [MHz]	Measured Power Spectral Density [dBm/MHz]		Power Spectral Density Limit [dBm/MHz]	MIMO/CDD Power Density [dBm/MHz]	MIMO/CDD Power Density Limit [dBm/MHz]
			ANT1	ANT2			
a	36	5180	-4.241	-5.549	17	/	/
	40	5200	-4.65	-5.098	17	/	/
	48	5240	-3.736	-3.763	17	/	/
n (20MHz)	36	5180	-5.71	-4.599	17	-2.11	16.99
	40	5200	-4.014	-4.084	17	-1.04	16.99
	48	5240	-4.096	-2.664	17	-0.31	16.99
n (40MHz)	38	5190	-10.872	-10.017	17	-7.41	16.99
	46	5230	-7.361	-7.731	17	-4.53	16.99
ac (20MHz)	36	5180	-5.513	-6.553	17	-2.99	16.99
	40	5200	-4.026	-6.367	17	-2.03	16.99
	48	5240	-4.393	-4.492	17	-1.43	16.99
ac(40MHz)	38	5190	-9.845	-10.26	17	-7.04	16.99
	46	5230	-6.375	-8.983	17	-4.48	16.99
ac(80MHz)	42	5210	-11.916	-11.237	17	-8.55	16.99

BAND 4

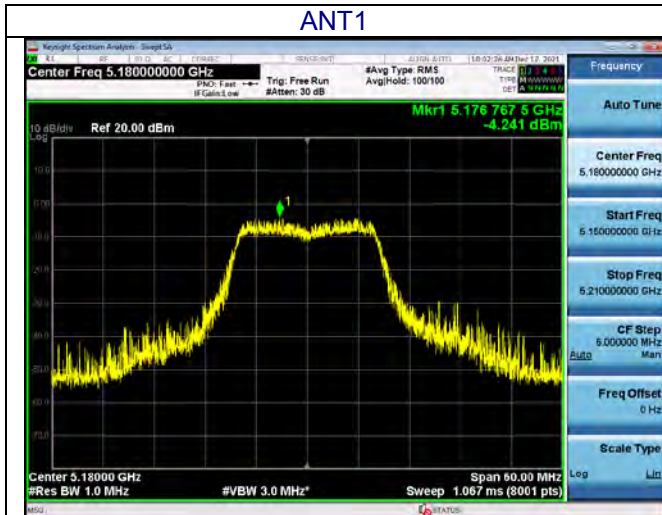
802.11 Mode	Channel No.	Frequency [MHz]	Meas PSD [dBm/510kHz]		Meas PSD [dBm/500kHz]		MIMO/CDD Power Density Limit [dBm/500kHz]
			ANT1	ANT2	ANT1	ANT2	
a	149	5745	-3.222	-2.691	-3.308	-2.777	30
	157	5785	-3.601	-4.105	-3.687	-4.191	30
	165	5825	-2.491	-2.583	-2.577	-2.669	30
n (20MHz)	149	5745	-2.475	-4.641	-2.561	-4.727	30
	157	5785	-2.867	-3.402	-2.953	-3.488	30
	165	5825	-2.616	-3.346	-2.702	-3.432	30
n (40MHz)	151	5755	-7.755	-7.967	-7.841	-8.053	30
	159	5795	-8.453	-8.005	-8.539	-8.091	30
ac (20MHz)	149	5745	-5.834	-5.255	-5.920	-5.341	30
	157	5785	-5.732	-4.688	-5.818	-4.774	30
	165	5825	-5.555	-5.118	-5.641	-5.204	30
ac(40MHz)	151	5755	-8.45	-10.53	-8.536	-10.616	30
	159	5795	-10.861	-10.699	-10.947	-10.785	30
ac(80MHz)	155	5775	-12.214	-12.128	-12.300	-12.214	30

Note: Covert PSD [dBm/500KHz]= PSD[dBm/510KHz]+10*log(500/510)

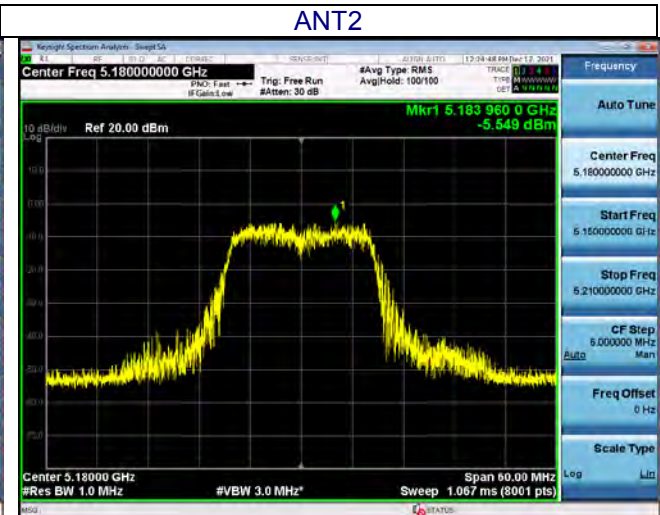
802.11 Mode	Channel No.	Frequency [MHz]	Meas PSD [dBm/500kHz]		MIMO/CDD Power Density [dBm/500kHz]	MIMO/CDD Power Density Limit [dBm/500kHz]
			ANT1	ANT2		
a	149	5745	-3.308	-2.777	/	/
	157	5785	-3.687	-4.191	/	/
	165	5825	-2.577	-2.669	/	/
n (20MHz)	149	5745	-2.561	-4.727	-0.50	29.99
	157	5785	-2.953	-3.488	-0.20	29.99
	165	5825	-2.702	-3.432	-0.04	29.99
n (40MHz)	151	5755	-7.841	-8.053	-4.94	29.99
	159	5795	-8.539	-8.091	-5.30	29.99
ac (20MHz)	149	5745	-5.920	-5.341	-2.61	29.99
	157	5785	-5.818	-4.774	-2.25	29.99
	165	5825	-5.641	-5.204	-2.41	29.99
ac(40MHz)	151	5755	-8.536	-10.616	-6.44	29.99
	159	5795	-10.947	-10.785	-7.85	29.99
ac(80MHz)	155	5775	-12.300	-12.214	-9.25	29.99

band1 – 802.11a

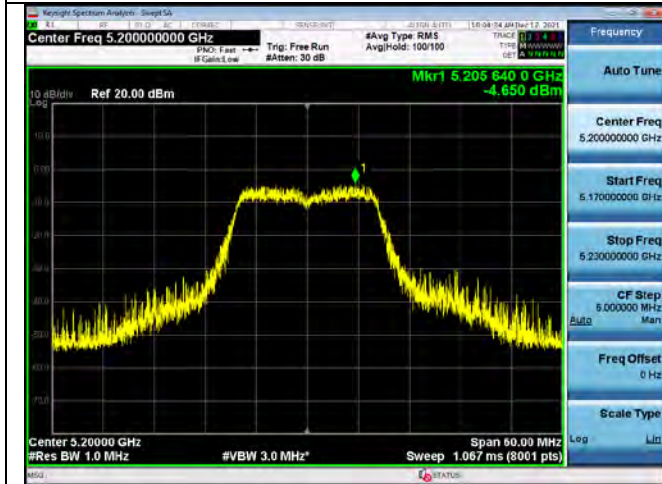
ANT1



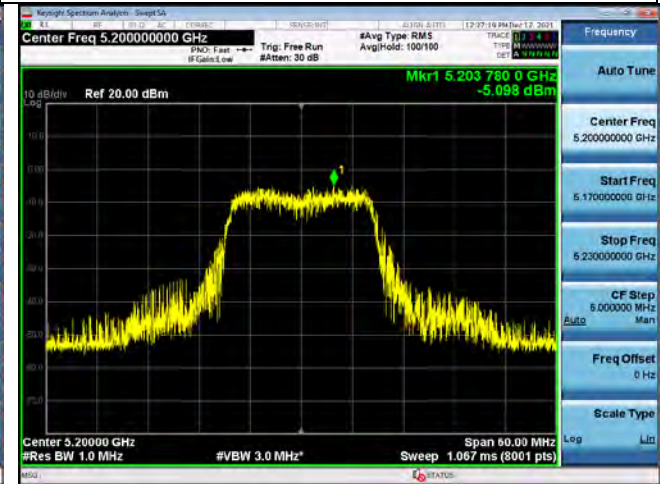
ANT2



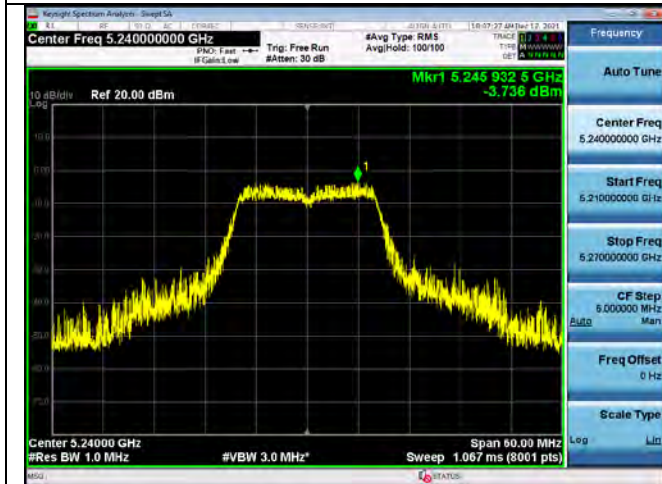
CH36-5180MHz



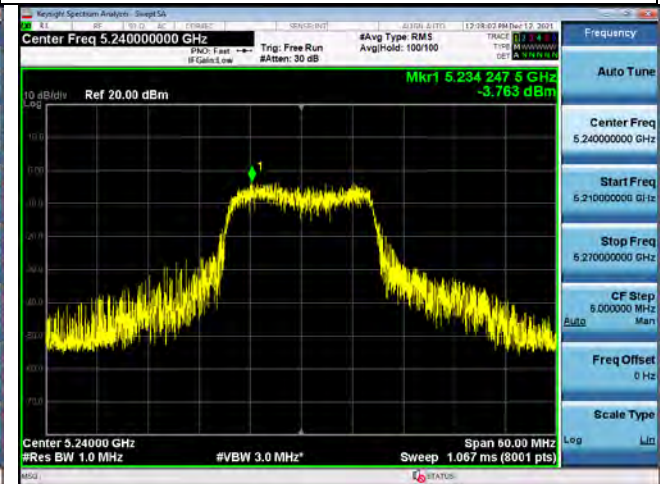
CH36-5180MHz



CH40-5200MHz



CH40-5200MHz



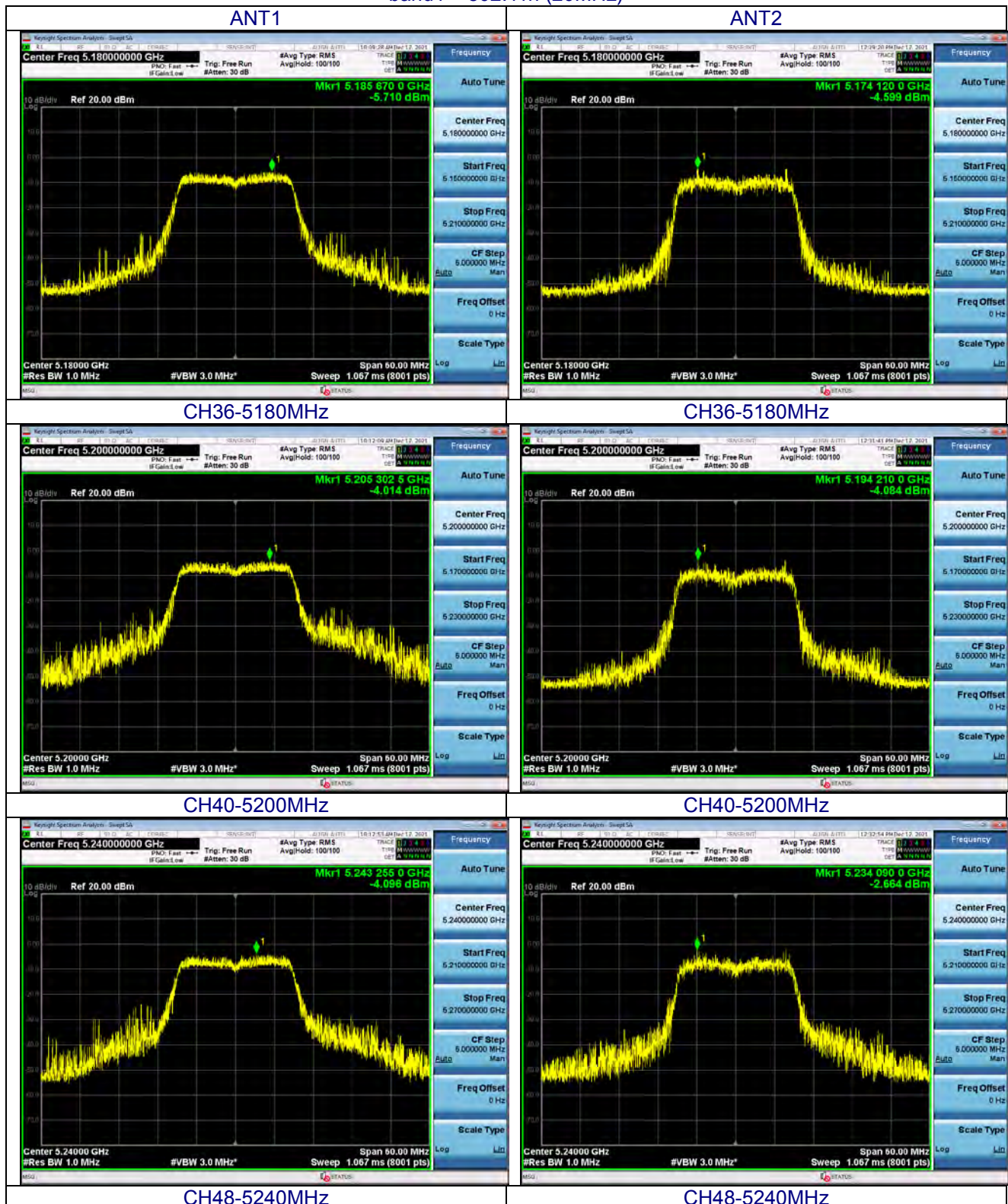
CH48-5240MHz



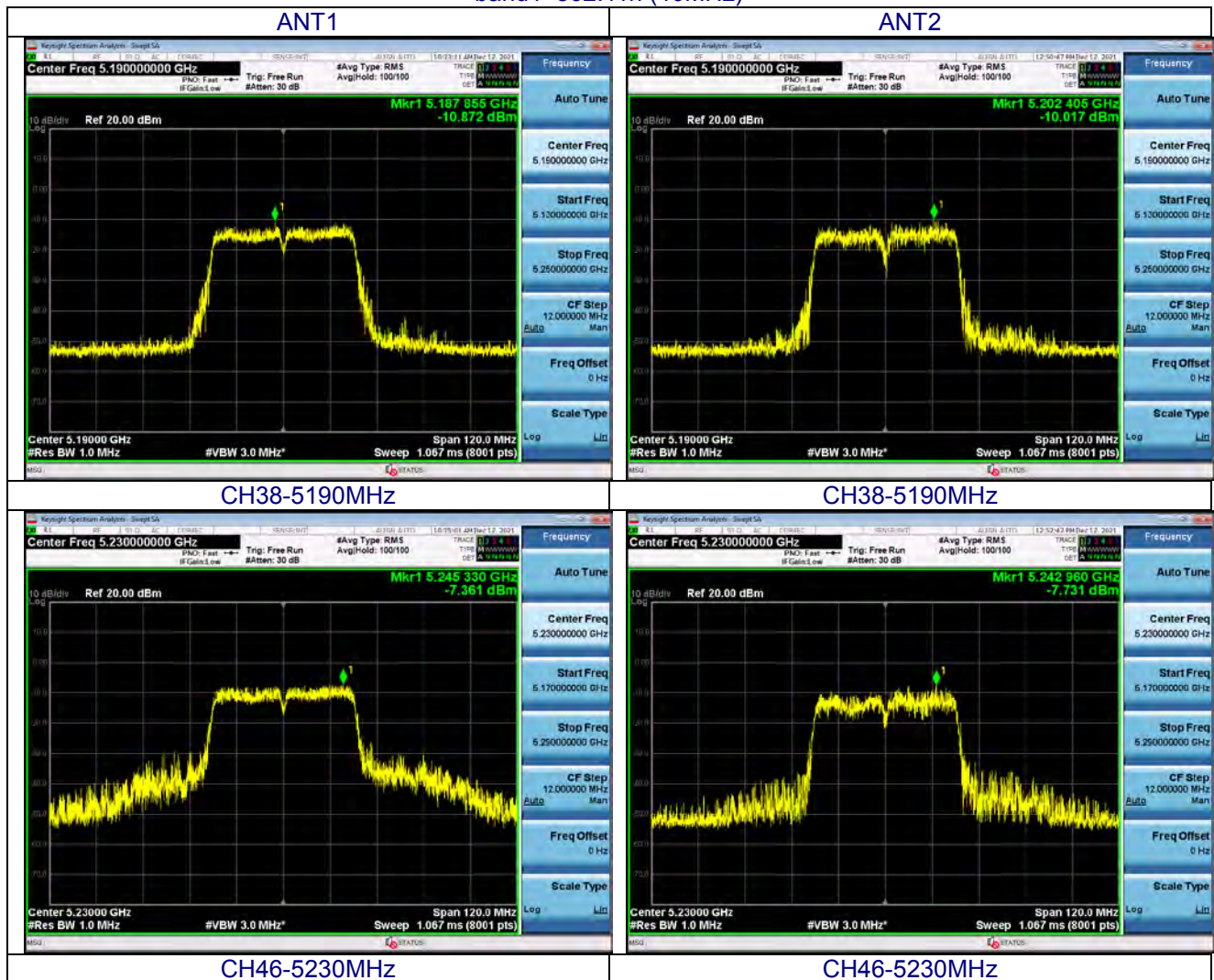
CH48-5240MHz



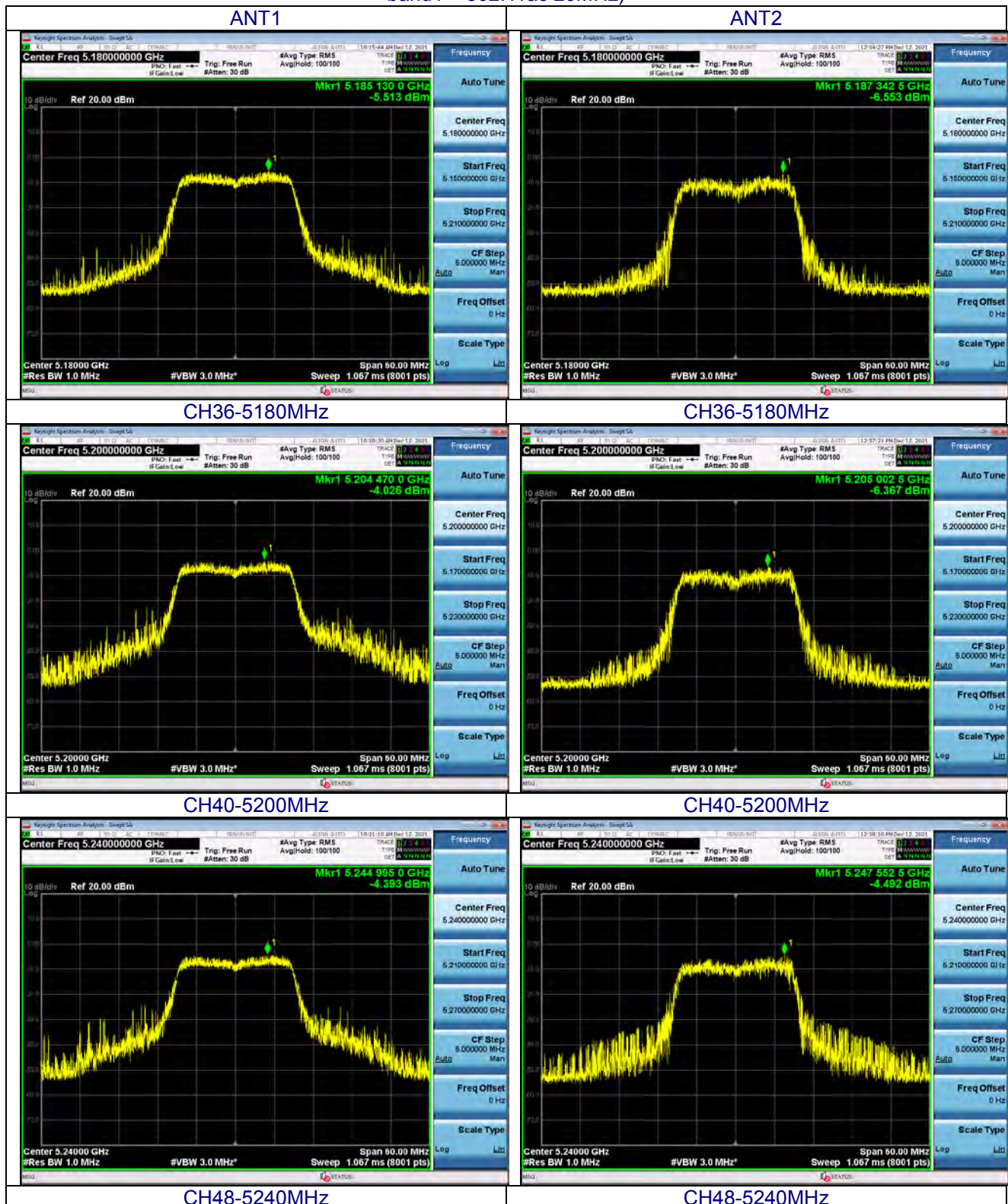
band1 – 802.11n (20MHz)



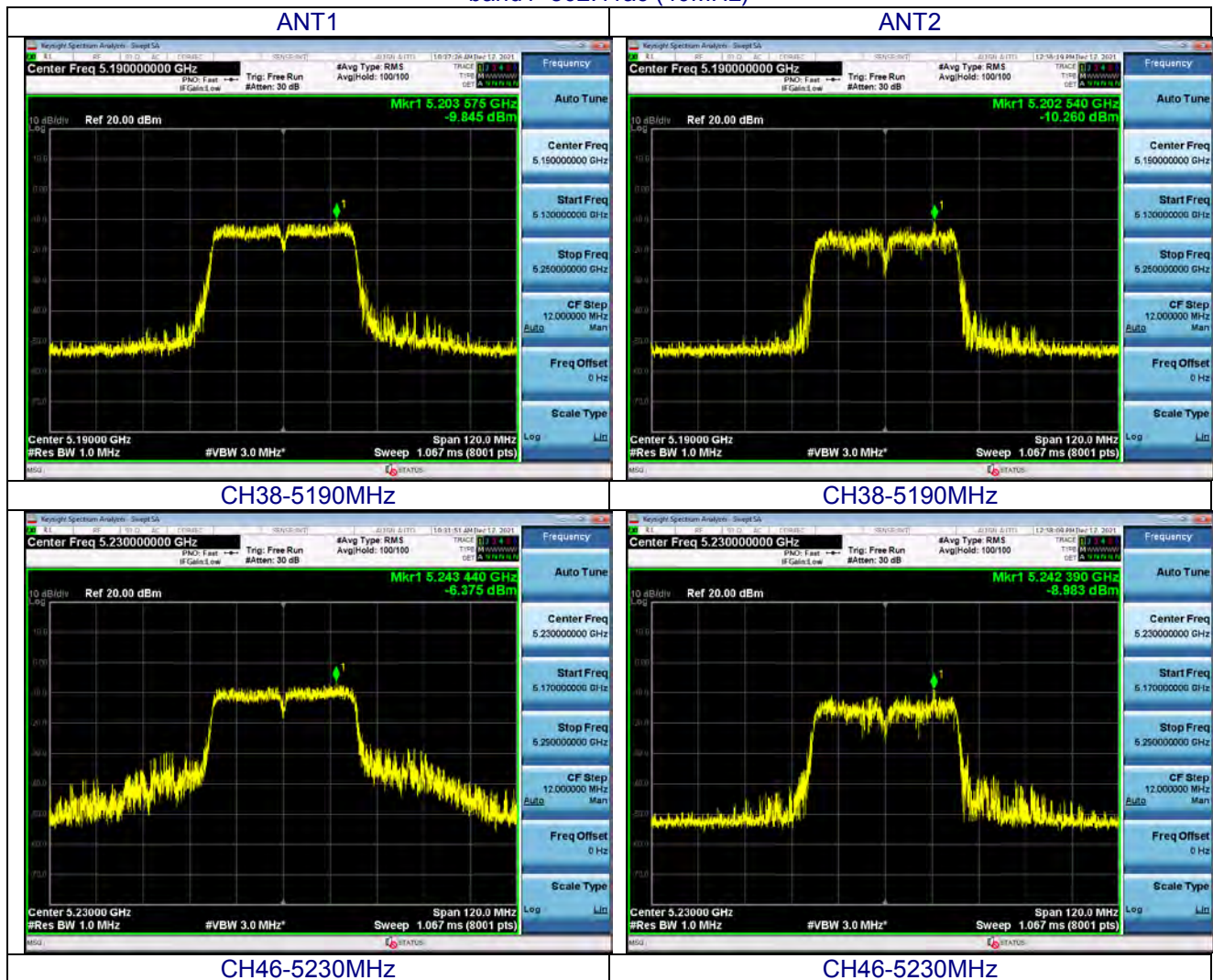
band1-802.11n (40MHz)



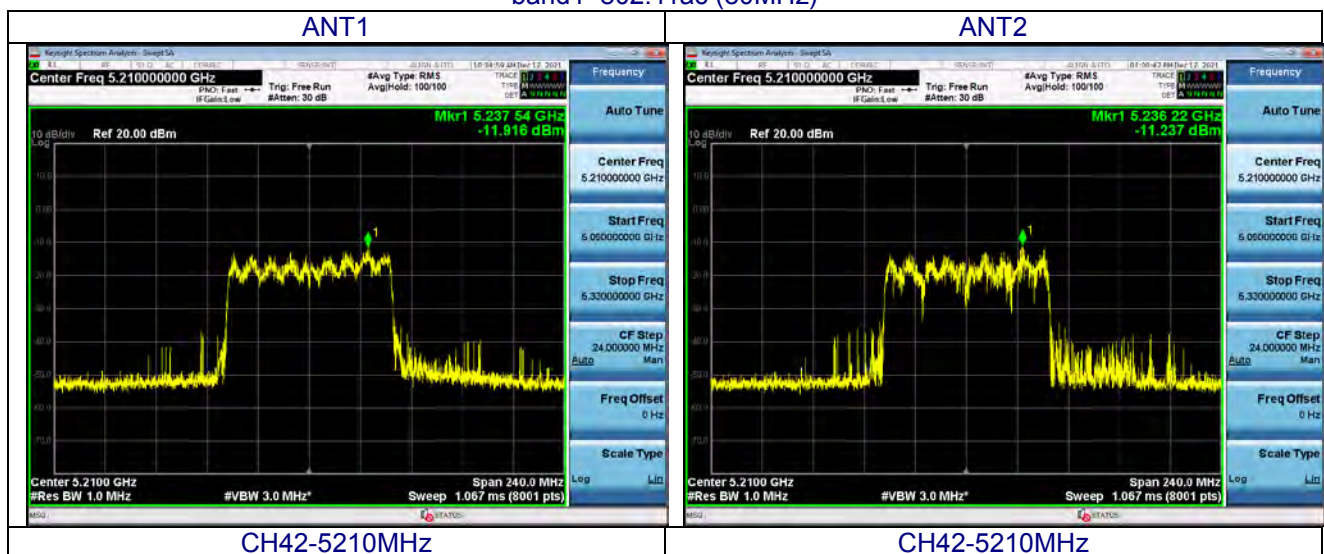
band1 – 802.11ac 20MHz)



band1-802.11ac (40MHz)

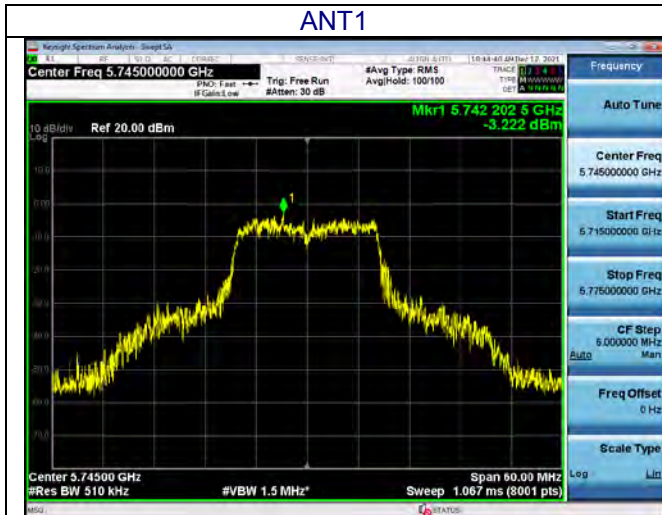


band1-802.11ac (80MHz)



Band 4-802.11a

ANT1



ANT2



CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz

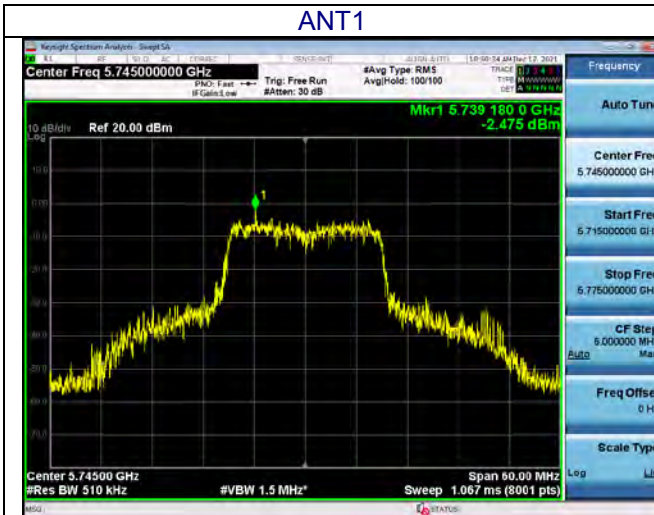


CH165 -5825MHz

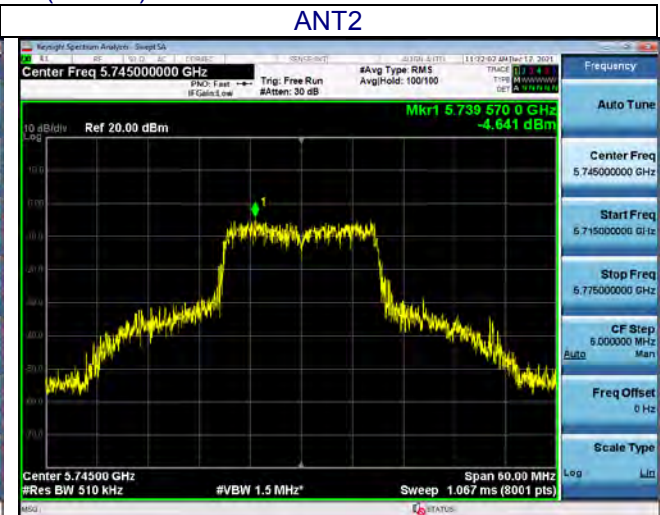


Band4-802.11n (20MHz)

ANT1



ANT2



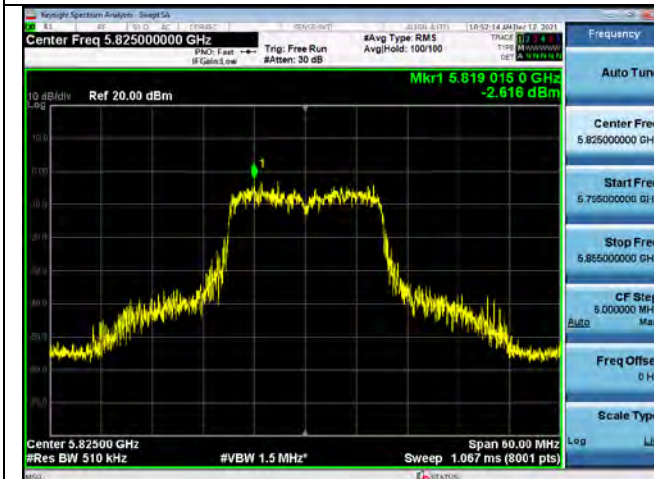
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz

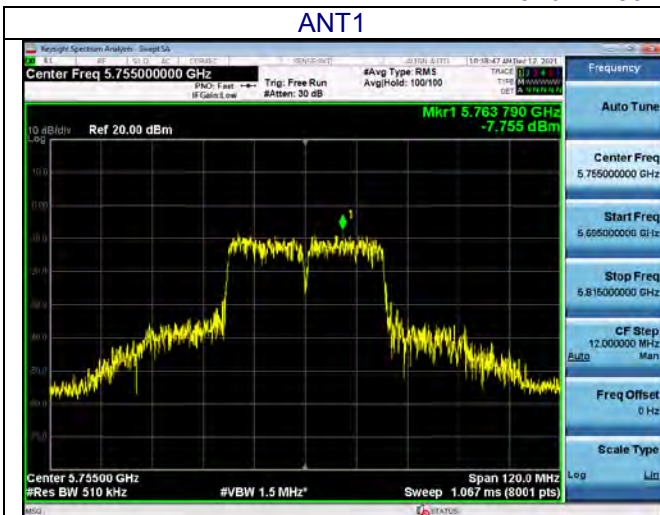


CH165 -5825MHz

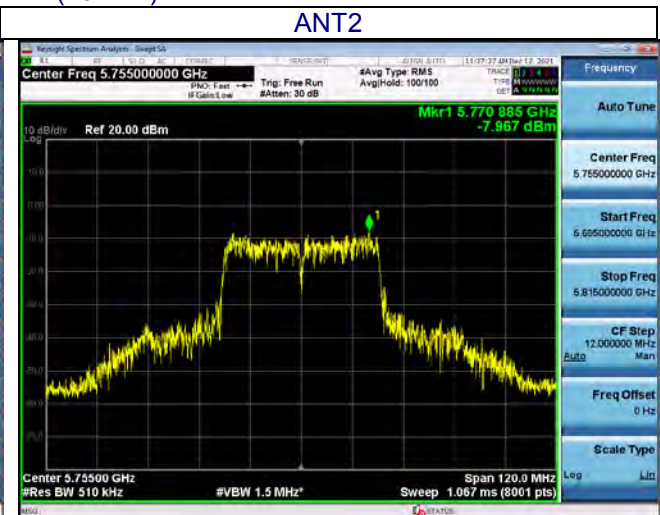
CH165 -5825MHz

Band 4 – 802.11n (40MHz)

ANT1



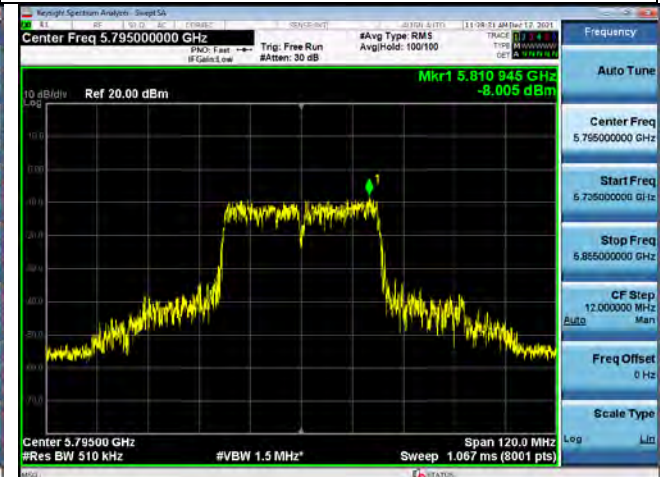
ANT2



CH151 -5755MHz



CH151 -5755MHz



CH159 -5795MHz

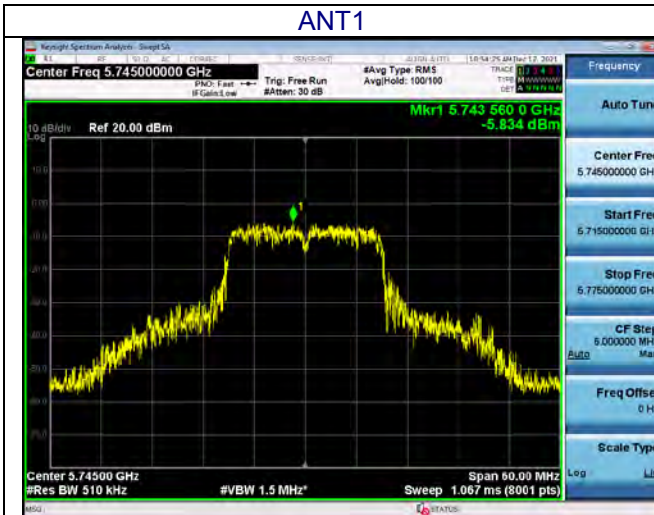


CH159 -5795MHz

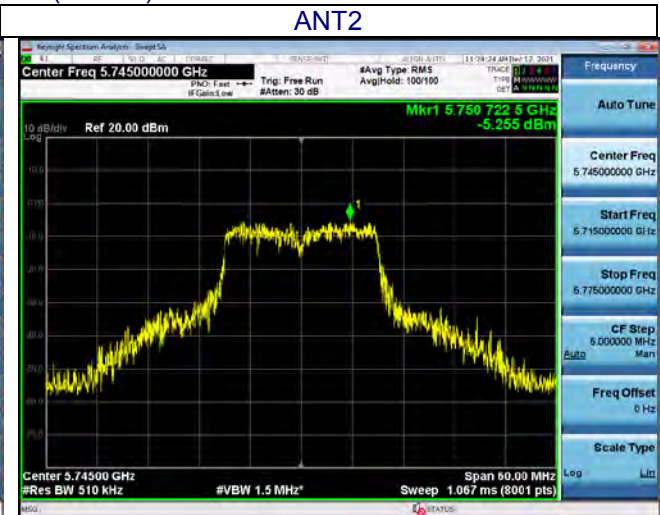


Band4-802.11ac (20MHz)

ANT1



ANT2



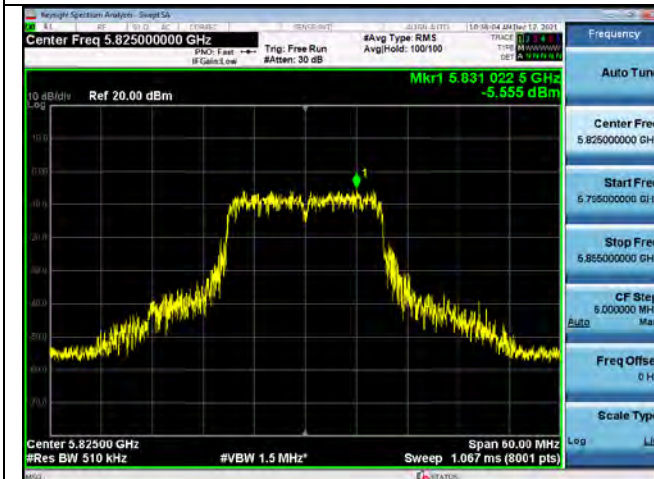
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



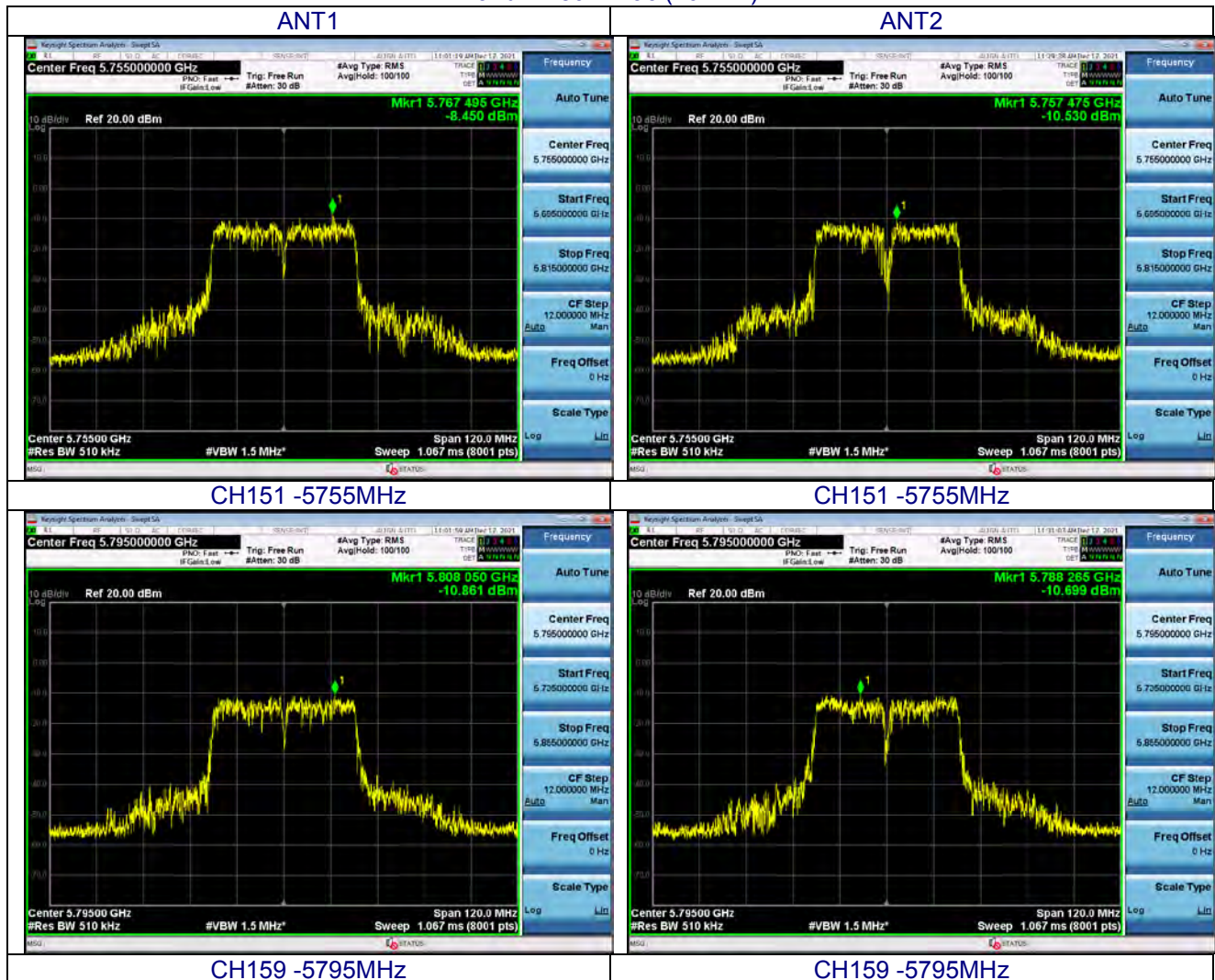
CH157 -5785MHz



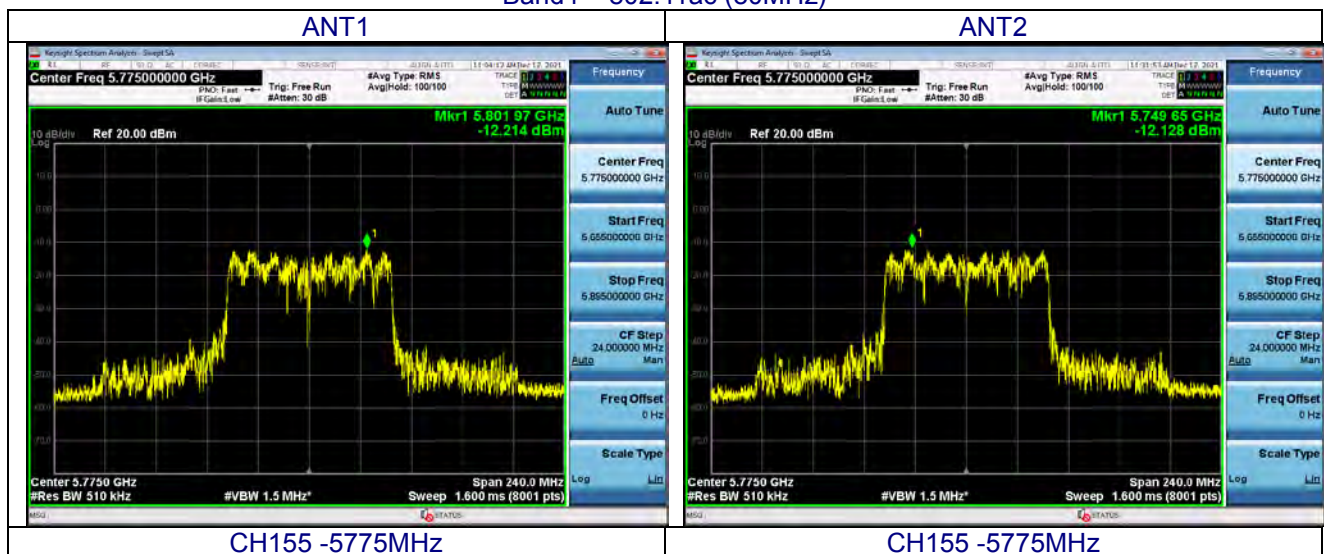
CH165 -5825MHz

CH165 -5825MHz

Band4 – 802.11ac (40MHz)



Band4 – 802.11ac (80MHz)



6. -26 DB&6DBM EMISSION BANDWIDTH

Test Requirement:	Part 15 Subpart C Section 15.407 (e)
Test Method:	KDB 789033 D02 v02r01

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15.407 (e)		
Bandwidth		
Limit	Band1	N/A
	Band4	$\geq$ 500 kHz

6.2 TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.

Set the spectrum analyzers RBW = approximately 1% of the emission bandwidth, VBW > RBW, Detector = Peak, Span > 26dB bandwidth, and Sweep = auto, Trace mode = max hold.

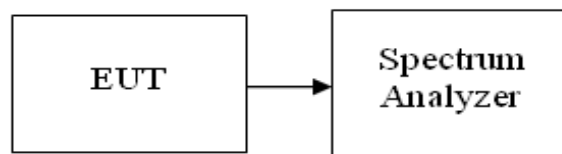
Measure the maximum width of the emission that is 26dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Repeat until all the rest channels were investigated.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V
Test Mode :	TX		

BAND 1

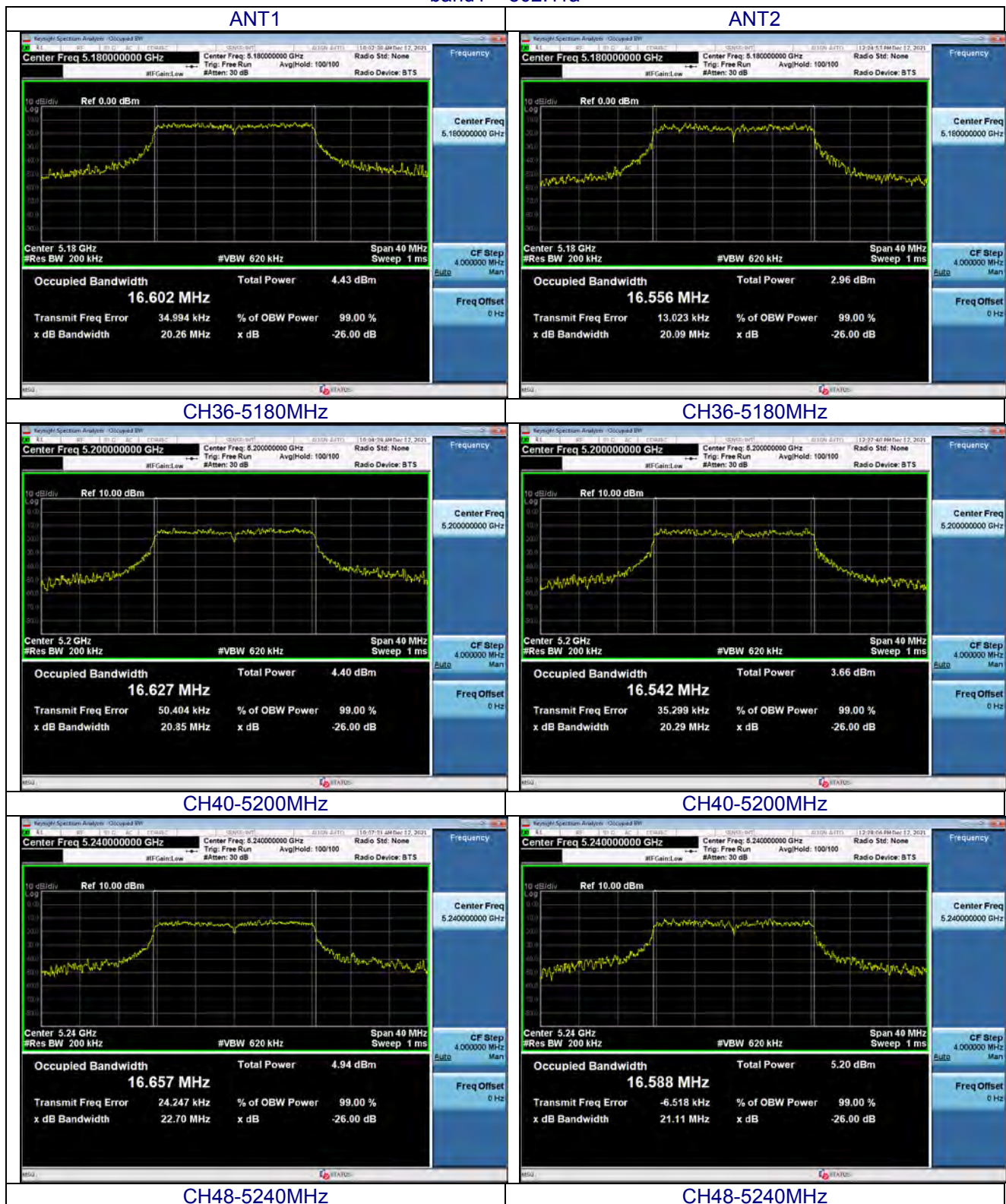
802.11 Mode	Channel No.	Frequency [MHz]	26dB Bandwidth [MHz]		99% Bandwidth [MHz]	
			ANT1	ANT2	ANT1	ANT2
a	36	5180	20.26	20.09	16.602	16.556
	40	5200	20.85	20.29	16.627	16.542
	48	5240	22.70	21.11	16.657	16.588
n (20MHz)	36	5180	20.88	19.90	17.738	17.662
	40	5200	31.07	20.20	17.805	17.687
	48	5240	28.87	20.93	17.766	17.779
n (40MHz)	38	5190	41.51	39.84	36.239	36.058
	46	5230	63.65	41.71	36.558	36.136
ac (20MHz)	36	5180	21.17	21.25	17.694	17.703
	40	5200	31.46	21.00	17.805	17.709
	48	5240	30.41	22.02	17.794	17.783
ac(40MHz)	38	5190	41.97	41.88	36.197	36.201
	46	5230	71.31	40.39	36.495	36.344
ac(80MHz)	42	5210	93.18	101.70	75.859	75.982

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	-6dbBandwidth [MHz]		Limit
			ANT1	ANT2	
a	149	5745	15.80	16.40	≥ 500 kHz
	157	5785	16.44	16.00	
	165	5825	16.13	16.36	
n (20MHz)	149	5745	16.53	16.76	
	157	5785	16.85	17.65	
	165	5825	16.22	17.66	
n (40MHz)	151	5755	35.47	35.43	
	159	5795	35.61	35.26	
ac (20MHz)	149	5745	17.61	17.05	
	157	5785	17.29	16.83	
	165	5825	17.52	17.55	
ac(40MHz)	151	5755	35.81	35.79	
	159	5795	35.44	35.49	
ac(80MHz)	155	5775	75.35	75.38	

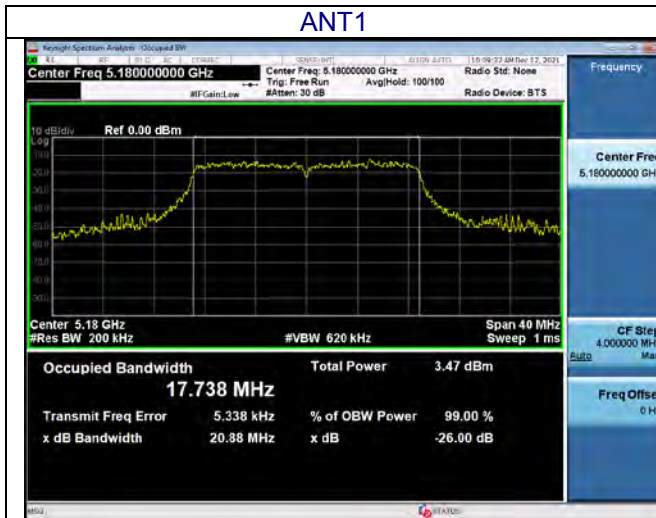
Test plot as follows:

band1 – 802.11a

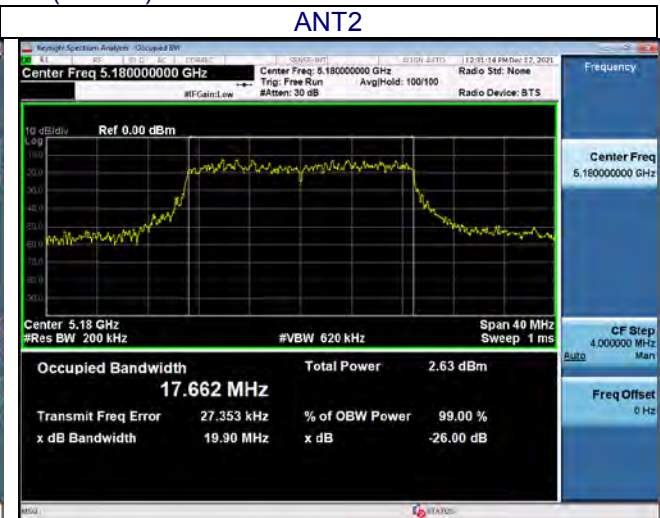


band1 – 802.11n (20MHz)

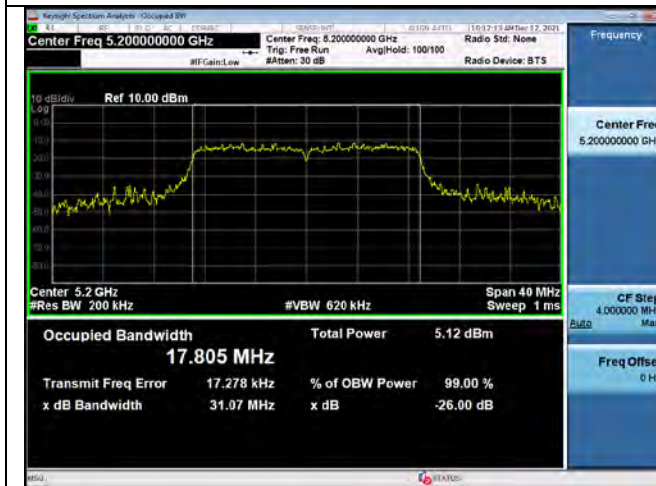
ANT1



ANT2



CH36-5180MHz



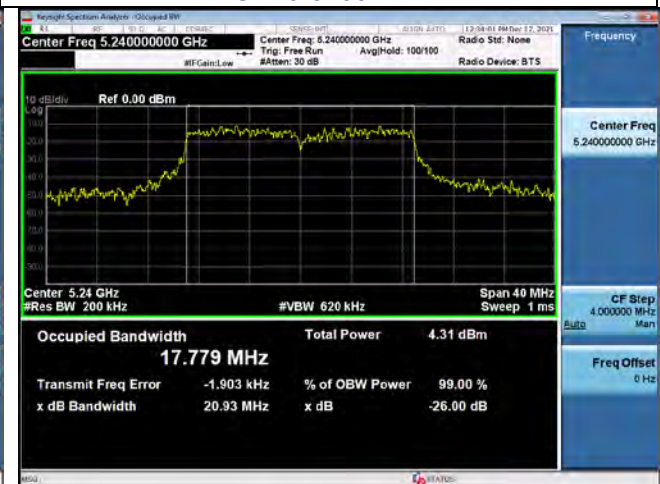
CH36-5180MHz



CH40-5200MHz



CH40-5200MHz



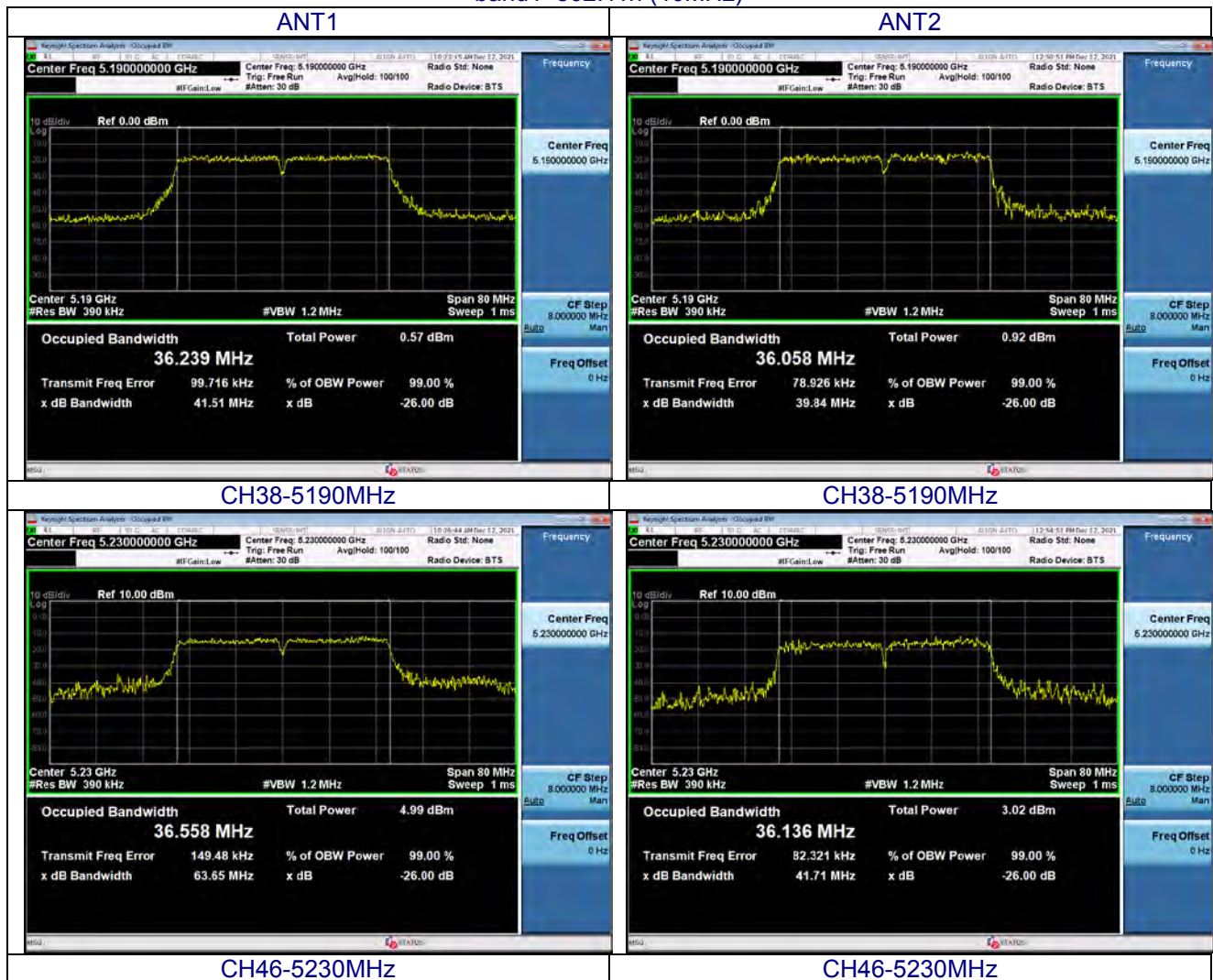
CH48-5240MHz



CH48-5240MHz

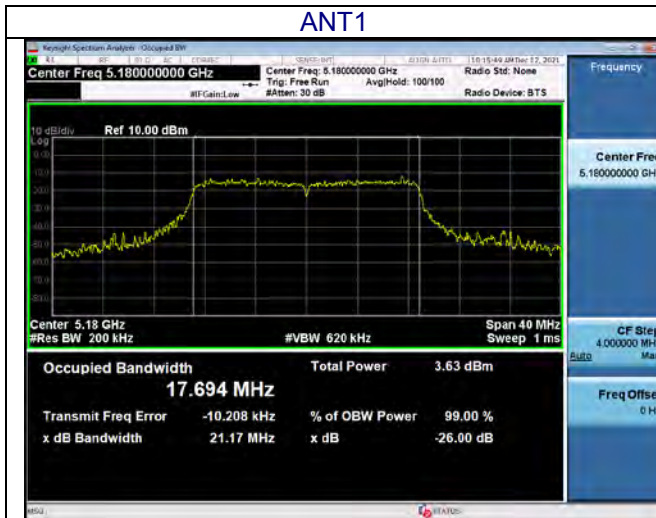


band1-802.11n (40MHz)

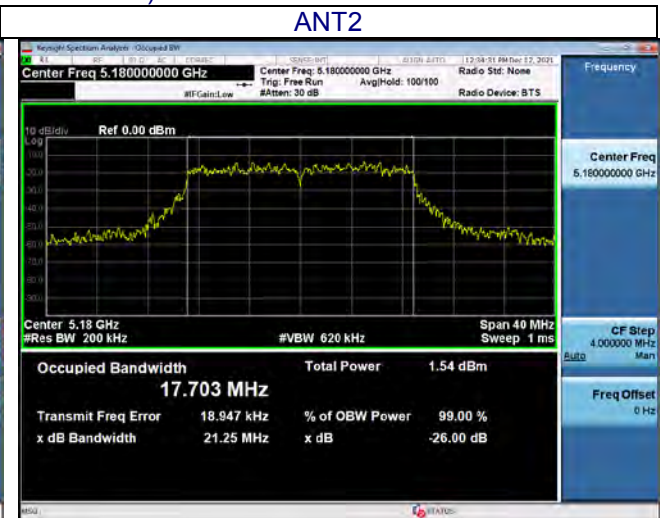


band1 – 802.11ac 20MHz)

ANT1



ANT2



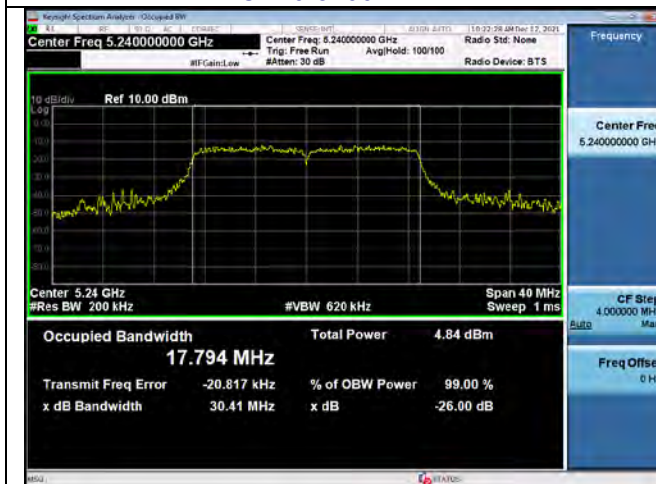
CH36-5180MHz



CH36-5180MHz



CH40-5200MHz



CH40-5200MHz



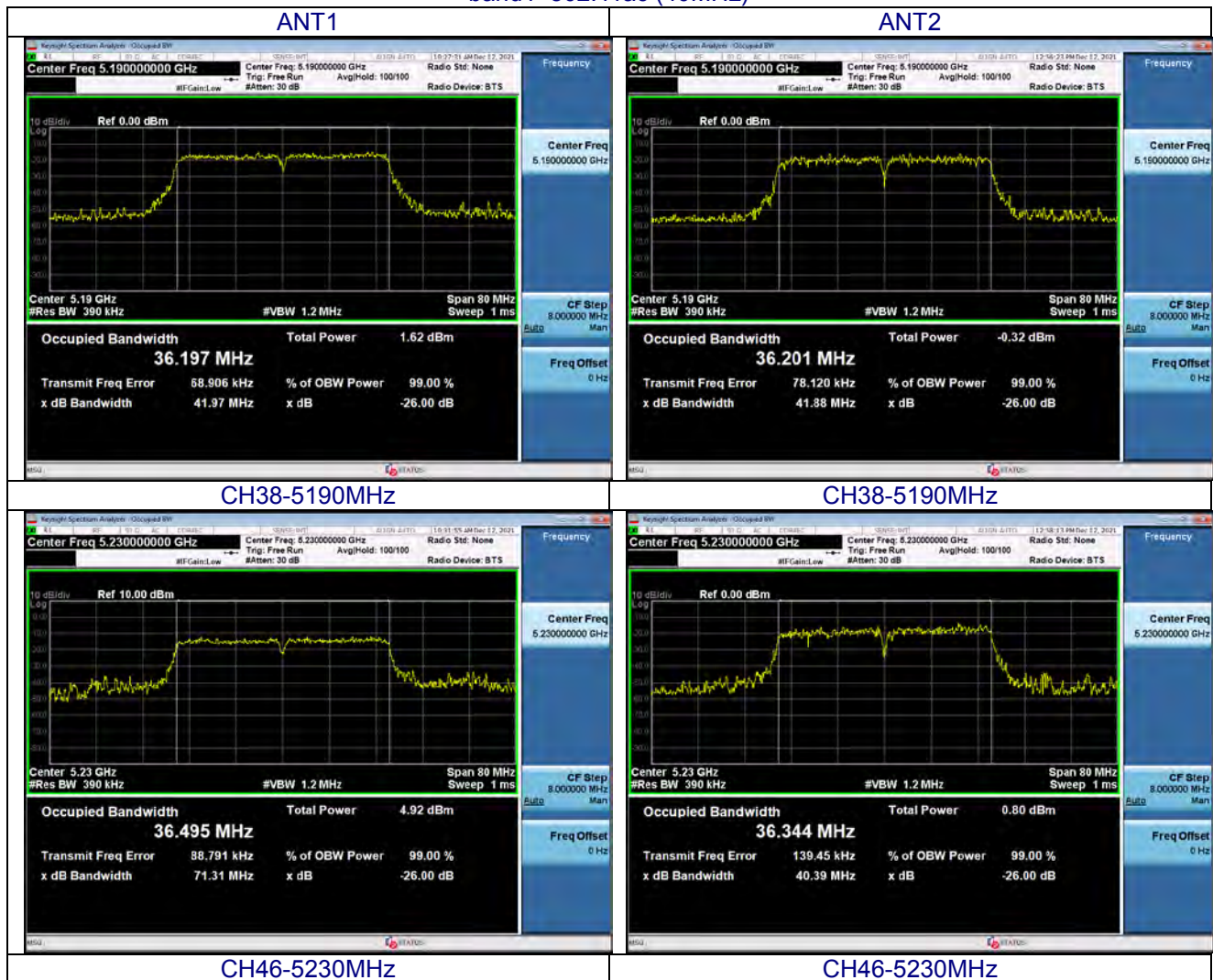
CH48-5240MHz



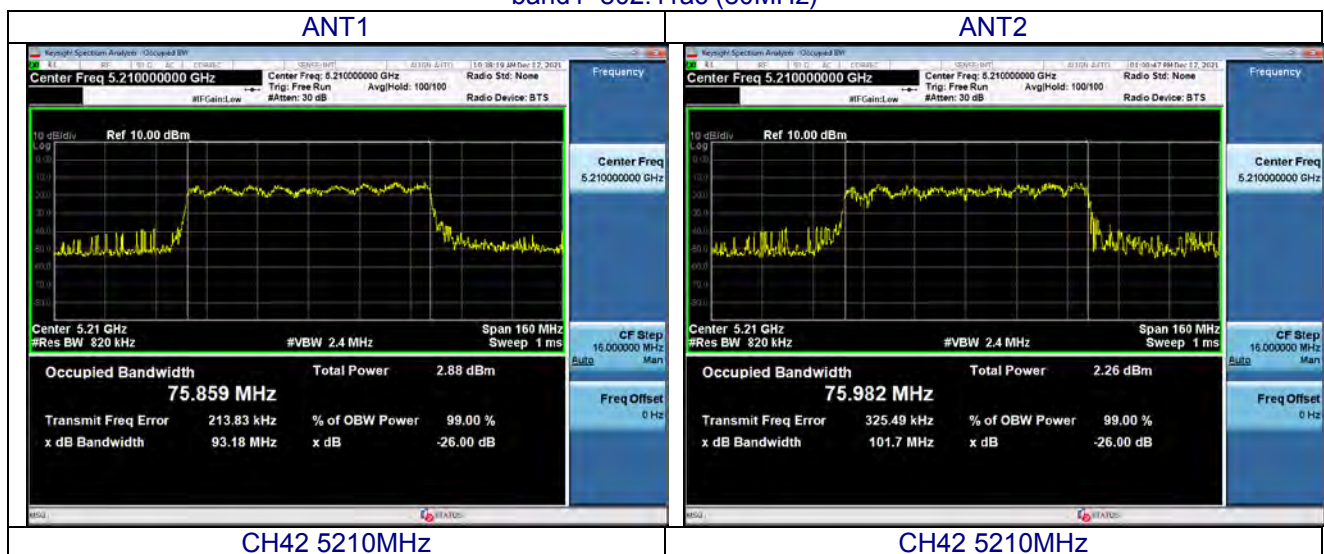
CH48-5240MHz



band1-802.11ac (40MHz)

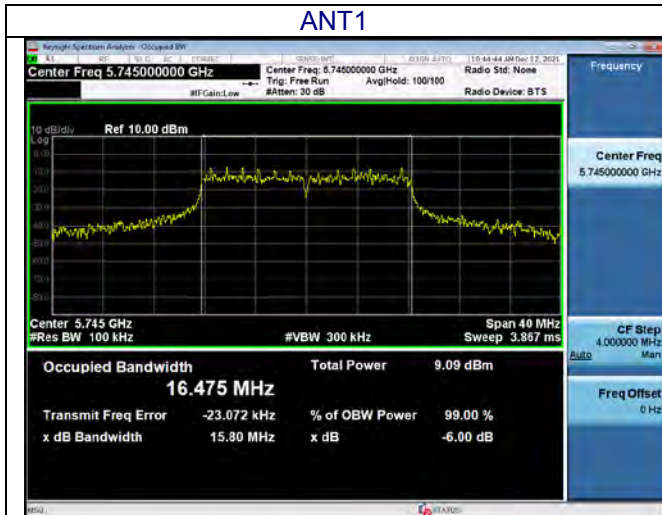


band1-802.11ac (80MHz)

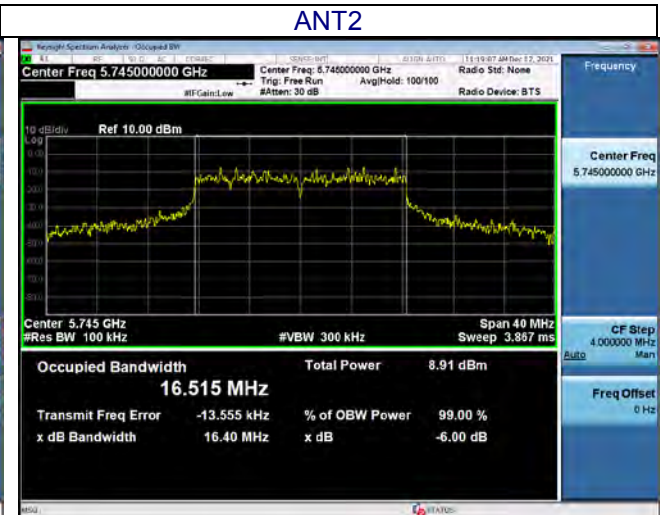


Band 4-802.11a

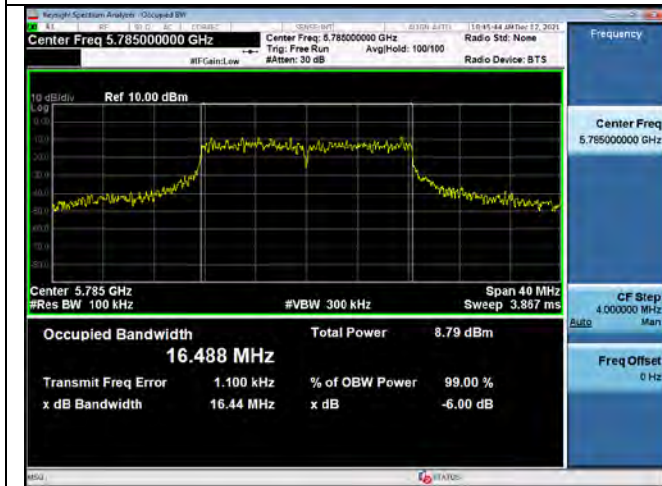
ANT1



ANT2



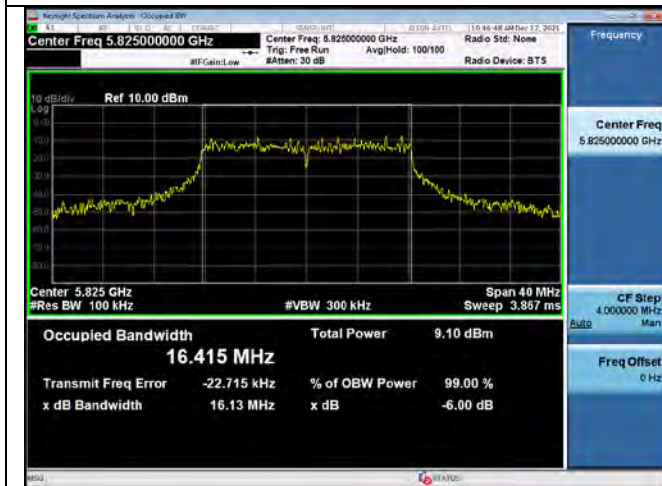
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz

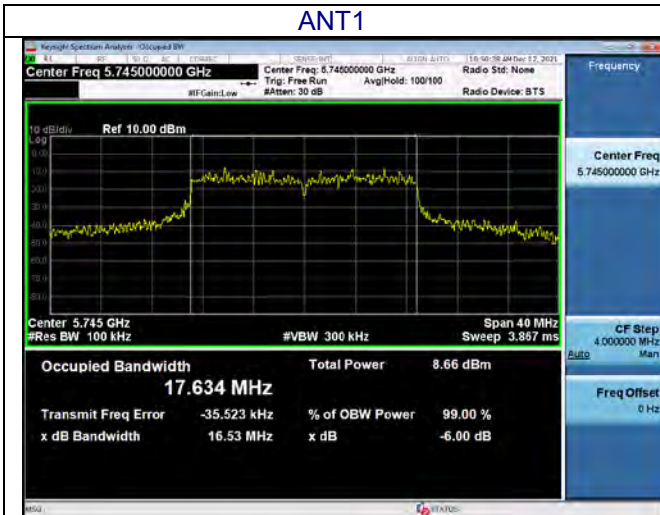


CH165 -5825MHz

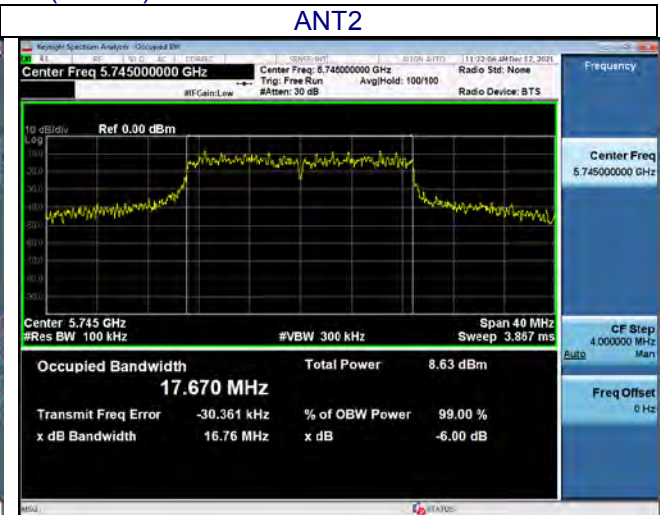


Band 4-802.11n (20MHz)

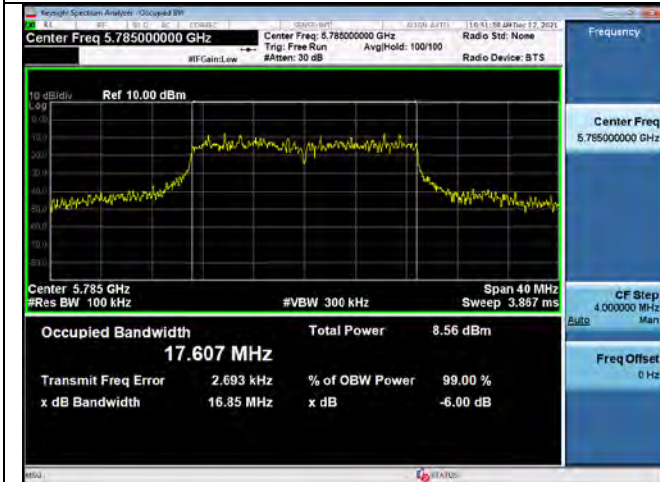
ANT1



ANT2



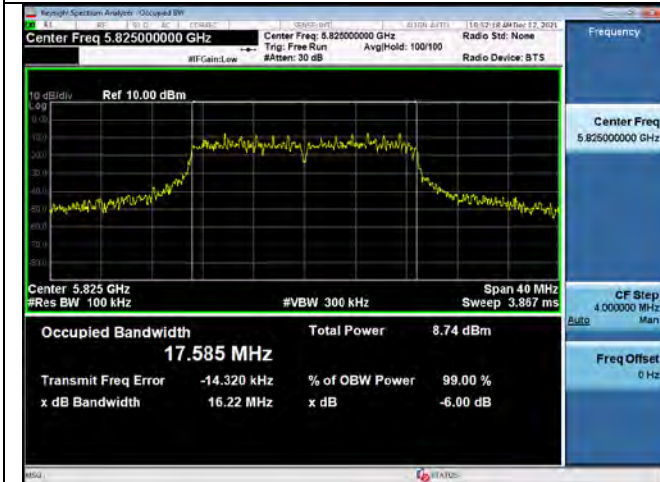
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz

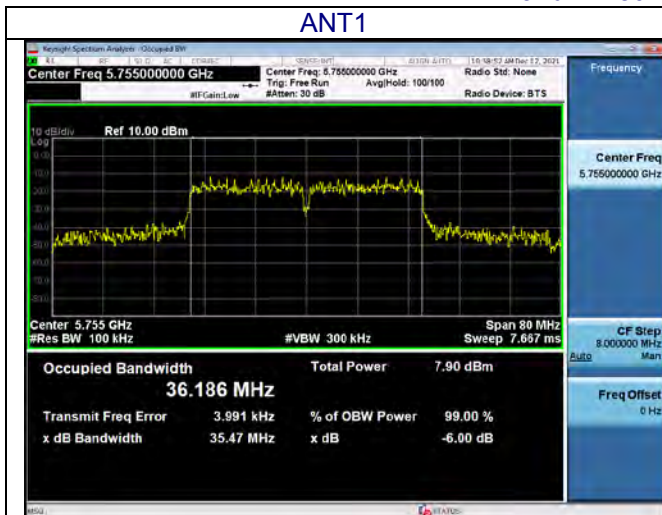


CH165 -5825MHz

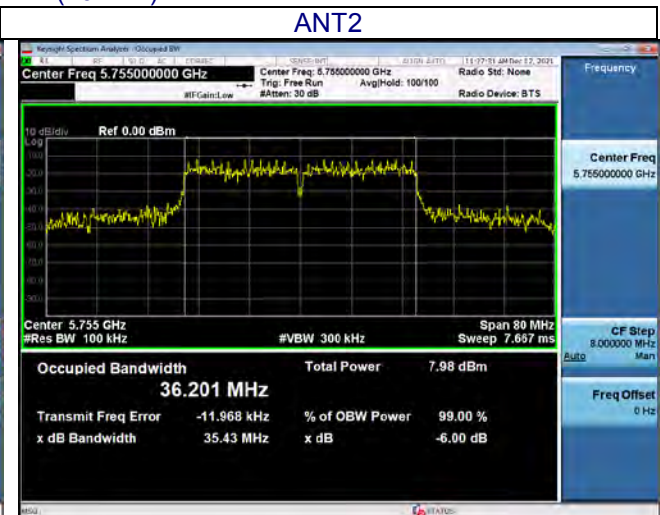


Band 4 – 802.11n (40MHz)

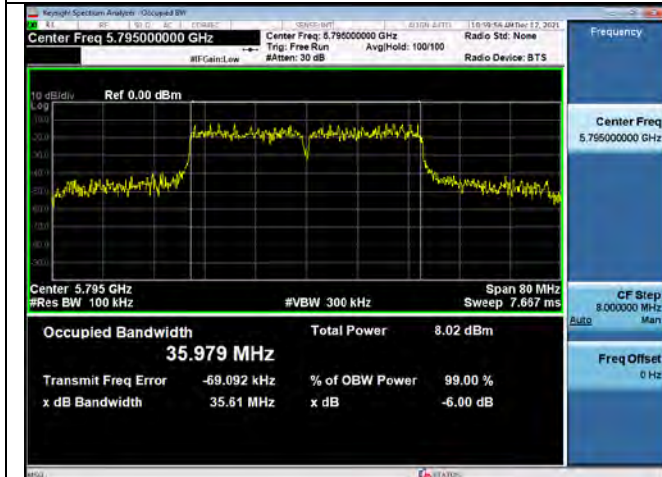
ANT1



ANT2



CH151 -5755MHz



CH151 -5755MHz



CH159 -5795MHz

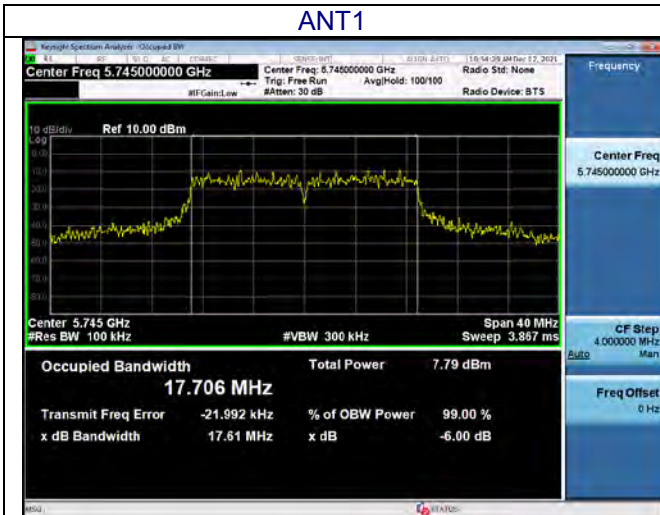


CH159 -5795MHz

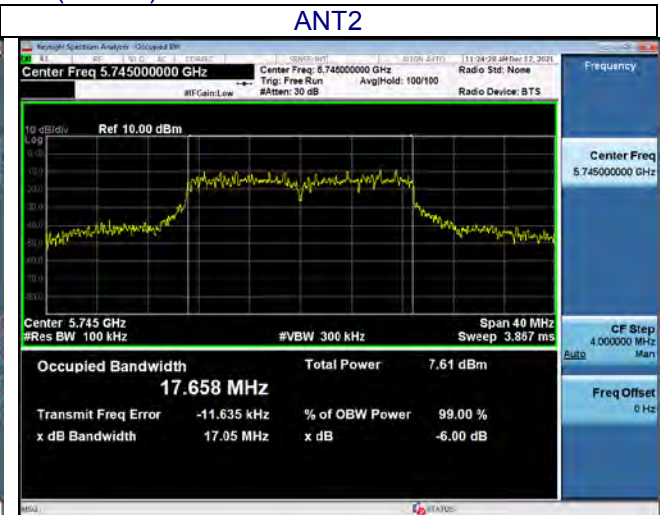


Band 4-802.11ac (20MHz)

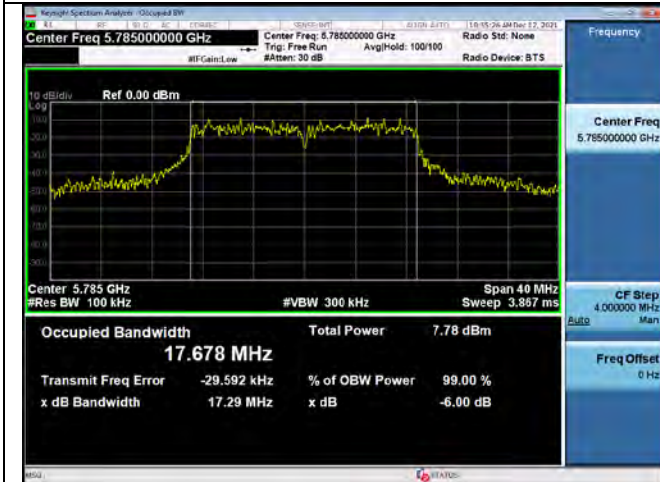
ANT1



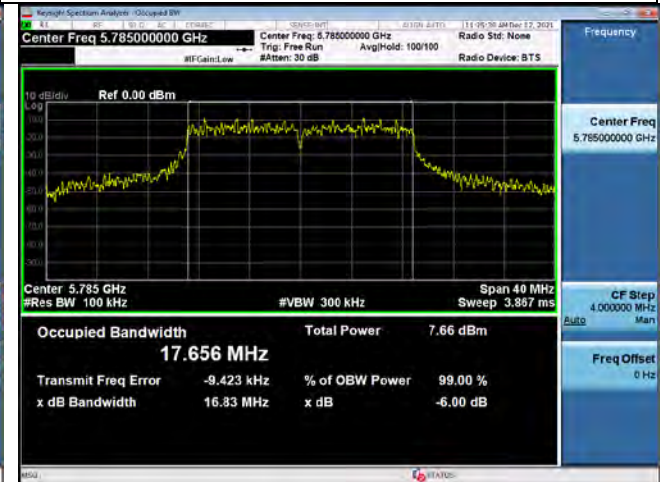
ANT2



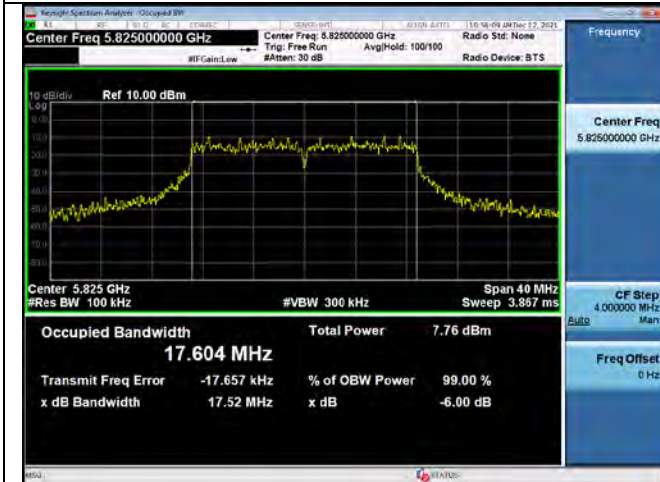
CH149 -5745MHz



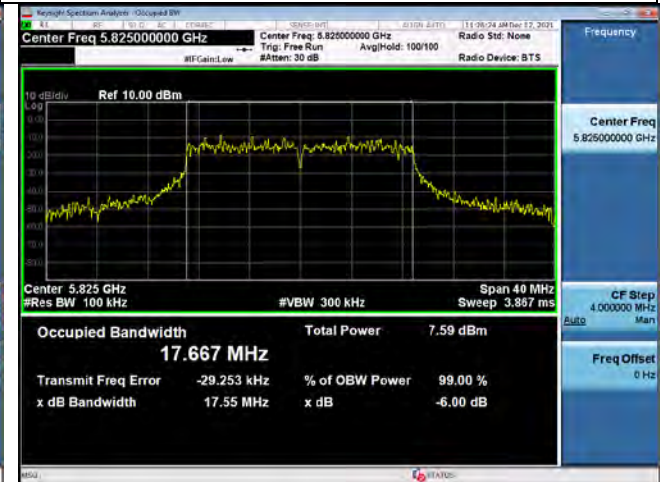
CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



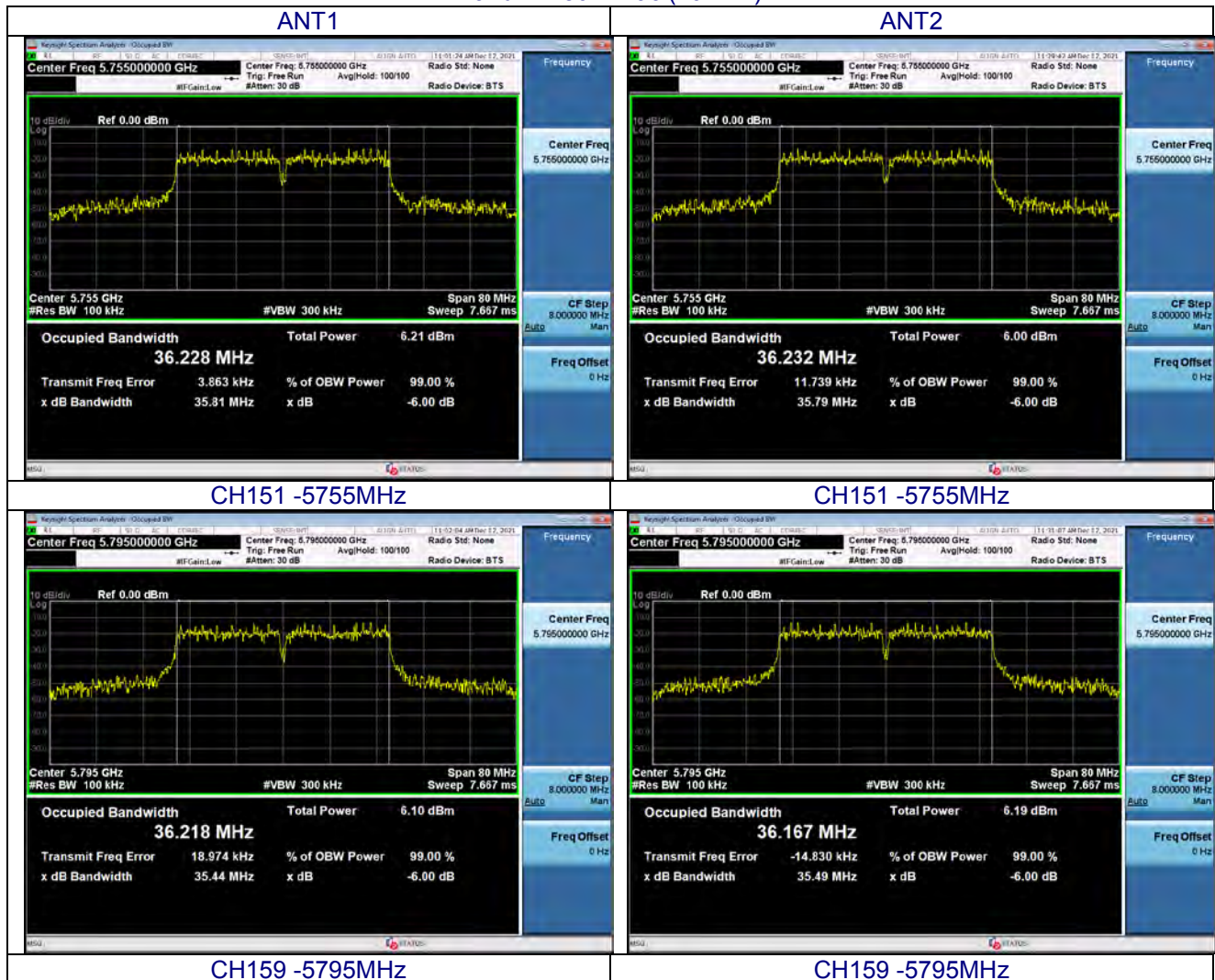
CH165 -5825MHz



CH165 -5825MHz



Band 4 – 802.11ac (40MHz)



Band 4 – 802.11ac (80MHz)



7.OUTPUT POWER TEST

Test Requirement:	15.407 (a)(1)(2)(3)
Test Method:	KDB 789033 D02 v02r01

7.1 APPLIED PROCEDURES/LIMIT

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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

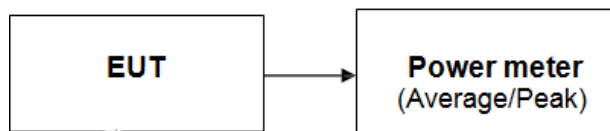
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum 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.

Test Item	Test band	Limit	Result
Max conducted output power	U-NII-1	1W / 30dbm	Pass
Max conducted output power	U-NII-2	1 W / 30dbm	Pass

7.2 DEVIATION FROM STANDARD

No deviation.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.5 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V

BAND 1

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]		Limit [dBm]
			ANT1	ANT2	
a	36	5180	6.936	7.236	30
	40	5200	6.551	6.754	30
	48	5240	7.893	7.623	30
n(20MHz)	36	5180	6.785	6.545	30
	40	5200	7.171	7.027	30
	48	5240	7.603	7.463	30
n(40MHz)	38	5190	6.961	7.121	30
	46	5230	7.001	6.841	30
ac(20MHz)	36	5180	7.626	7.426	30
	40	5200	5.231	5.641	30
	48	5240	6.163	6.033	30
ac(40MHz)	38	5190	5.344	5.632	30
	46	5230	6.253	6.547	30
ac(80MHz)	42	5210	3.385	3.552	30

MIMO/CDD Maximum Conducted Output Power Measurements

802.11 Mode	Channel No.	Freq. [MHz]	Conducted Power [dBm]		MIMO [dBm]	Limit [dBm]
			ANT1	ANT2		
a	36	5180	6.936	7.236	/	/
	40	5200	6.551	6.754	/	/
	48	5240	7.893	7.623	/	/
n(20MHz)	36	5180	6.785	6.545	9.68	29.99
	40	5200	7.171	7.027	10.11	29.99
	48	5240	7.603	7.463	10.54	29.99
n(40MHz)	38	5190	6.961	7.121	10.05	29.99
	46	5230	7.001	6.841	9.93	29.99
ac(20MHz)	36	5180	7.626	7.426	10.54	29.99
	40	5200	5.231	5.641	8.45	29.99
	48	5240	6.163	6.033	9.11	29.99
ac(40MHz)	38	5190	5.344	5.632	8.50	29.99
	46	5230	6.253	6.547	9.41	29.99
ac(80MHz)	42	5210	3.385	3.552	6.48	29.99

NOTE: power limit (MIMO)= power limit – (6.01-6)=30-0.01=29.99

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]		Limit [dBm]
			ANT1	ANT2	
a	149	5745	5.487	5.987	30.00
	157	5785	5.627	6.485	30.00
	165	5825	6.757	6.864	30.00
n(20MHz)	149	5745	6.554	6.897	30.00
	157	5785	6.247	6.357	30.00
	165	5825	6.442	6.238	30.00
n (40MHz)	151	5755	5.758	6.274	30.00
	159	5795	6.241	6.457	30.00
ac (20MHz)	149	5745	6.785	7.105	30.00
	157	5785	4.435	4.247	30.00
	165	5825	5.227	5.587	30.00
ac(40MHz)	151	5755	4.569	4.249	30.00
	159	5795	5.387	5.567	30.00
ac(80MHz)	155	5775	2.578	2.787	30.00

MIMO/CDD Maximum Conducted Output Power Measurements

802.11 Mode	Channel No.	Freq. [MHz]	Conducted Power [dBm]		MIMO [dBm]	Limit [dBm]
			ANT1	ANT2		
a	149	5745	5.487	5.987	/	/
	157	5785	5.627	6.485	/	/
	165	5825	6.757	6.864	/	/
n(20MHz)	149	5745	6.554	6.897	9.74	29.99
	157	5785	6.247	6.357	9.31	29.99
	165	5825	6.442	6.238	9.35	29.99
n(40MHz)	151	5755	5.758	6.274	9.03	29.99
	159	5795	6.241	6.457	9.36	29.99
ac(20MHz)	149	5745	6.785	7.105	9.96	29.99
	157	5785	4.435	4.247	7.35	29.99
	165	5825	5.227	5.587	8.42	29.99
ac(40MHz)	151	5755	4.569	4.249	7.42	29.99
	159	5795	5.387	5.567	8.49	29.99
ac(80MHz)	155	5775	2.578	2.787	5.69	29.99

NOTE: power limit (MIMO)= power limit – (8.01-6)=30-2.01=27.99

8.OUT OF BAND EDGEEMISSION

Test Requirement:	15.407 (b)
Test Method:	KDB 789033 D02 v02r01

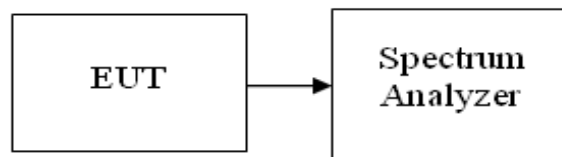
8.1TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.2DEVIATION FROM STANDARD

No deviation.

8.3TEST SETUP



8.4EUT OPERATION CONDITIONS

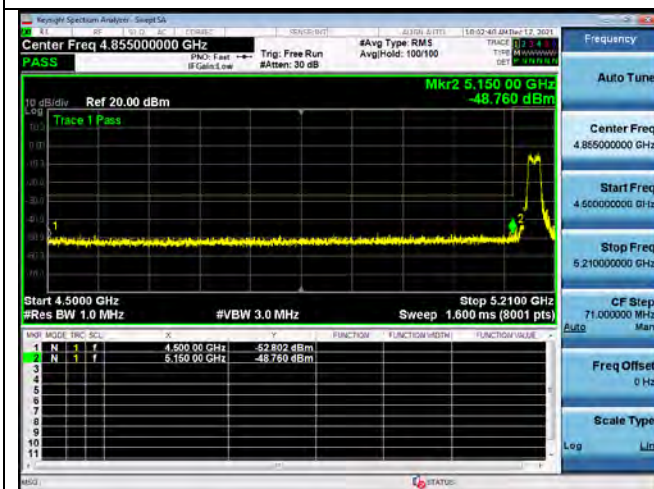
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Test plot as follows:

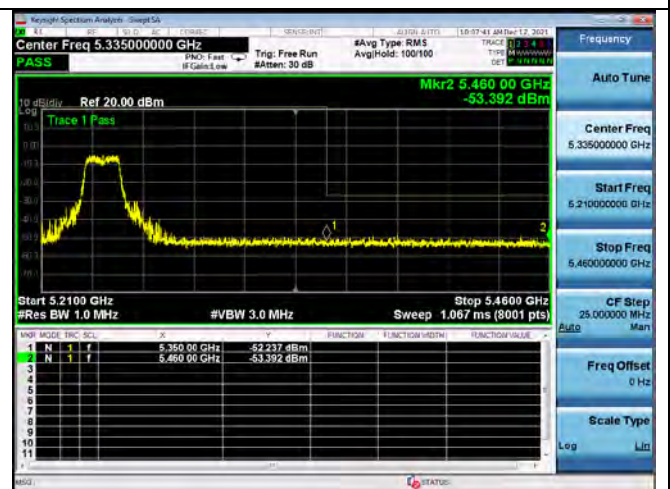
ANT1-band1

Test mode:



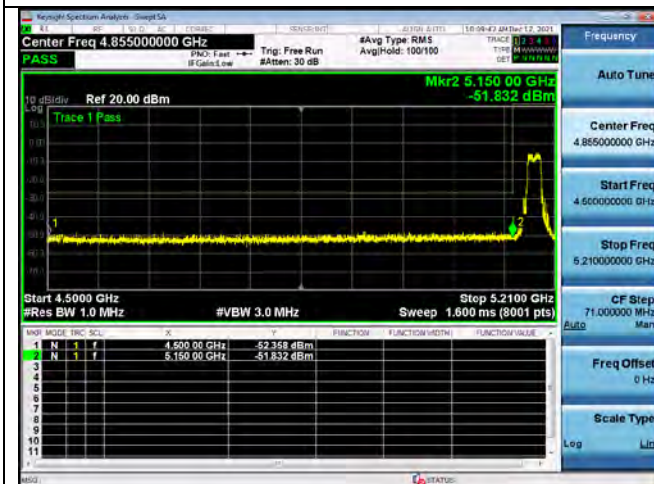
Lowest channel

802.11a



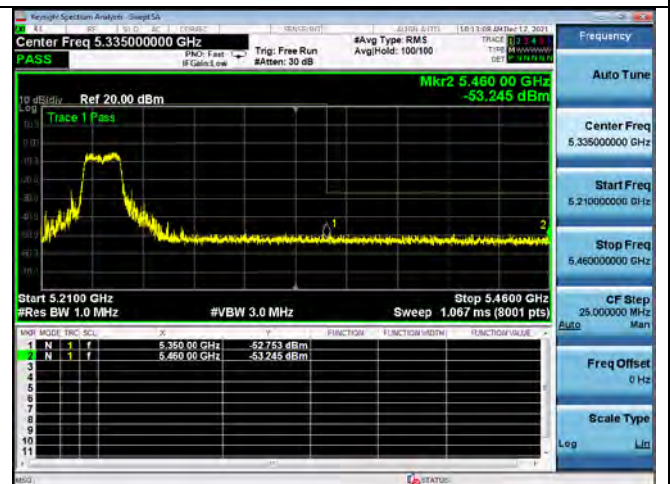
Highest channel

Test mode:



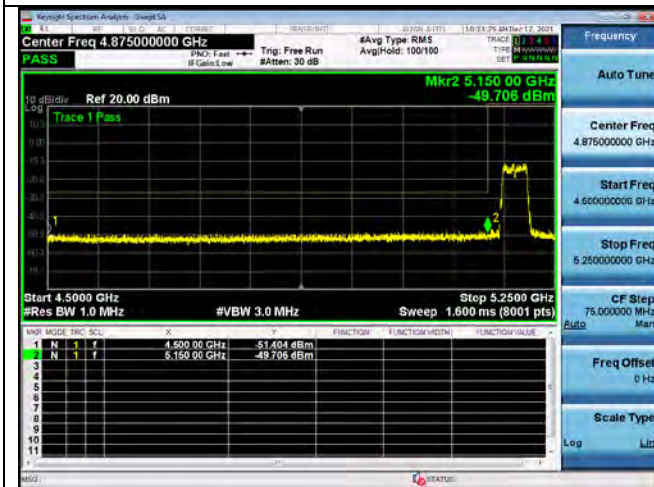
Lowest channel

802.11n20



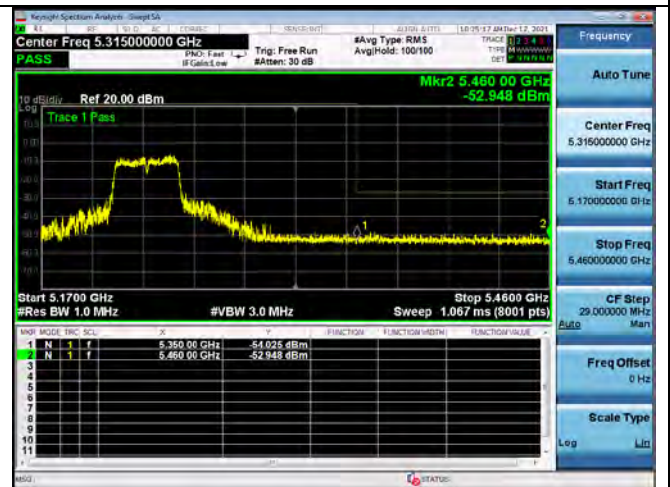
Highest channel

Test mode:



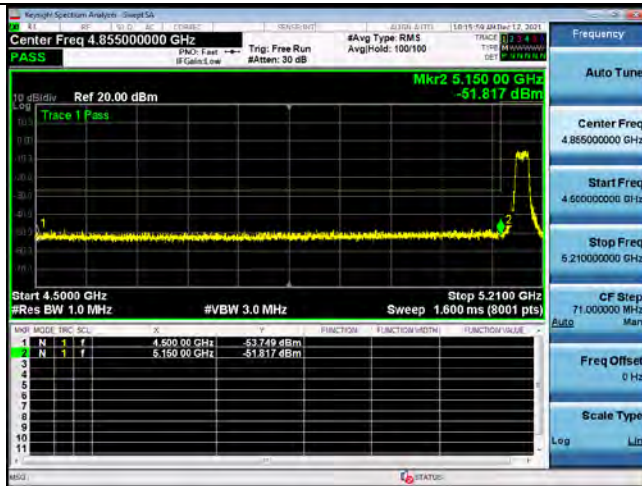
Lowest channel

802.11n40



Highest channel

Test mode:



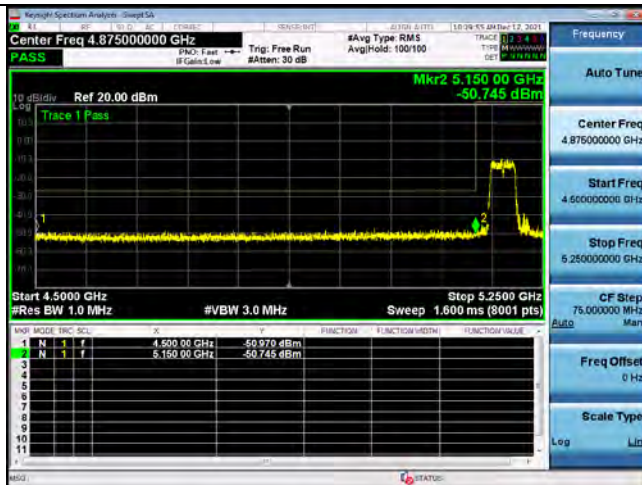
Lowest channel

802.11ac20



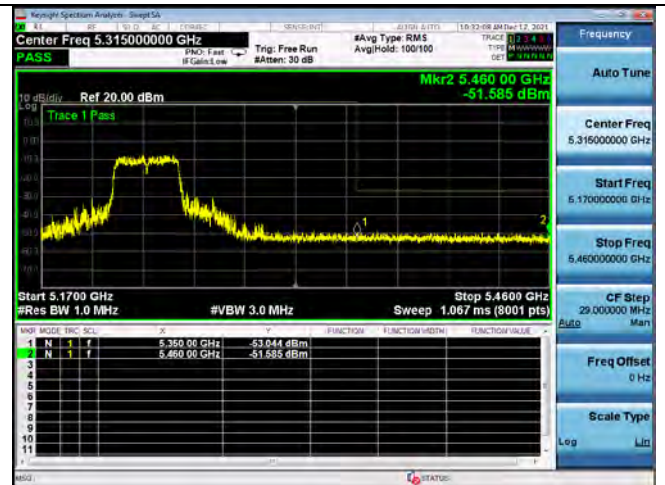
Highest channel

Test mode:



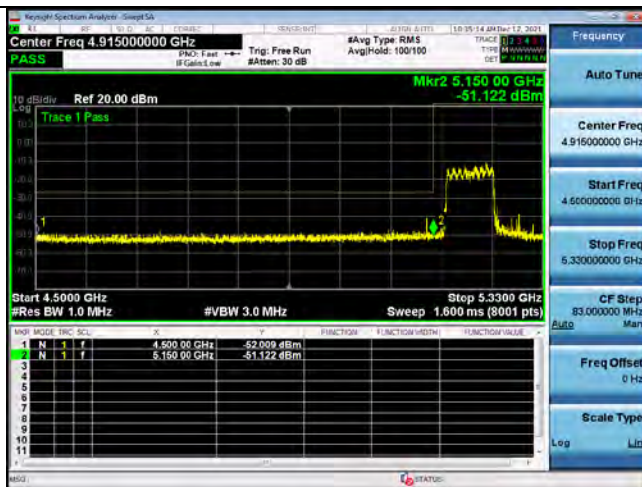
Lowest channel

802.11ac40



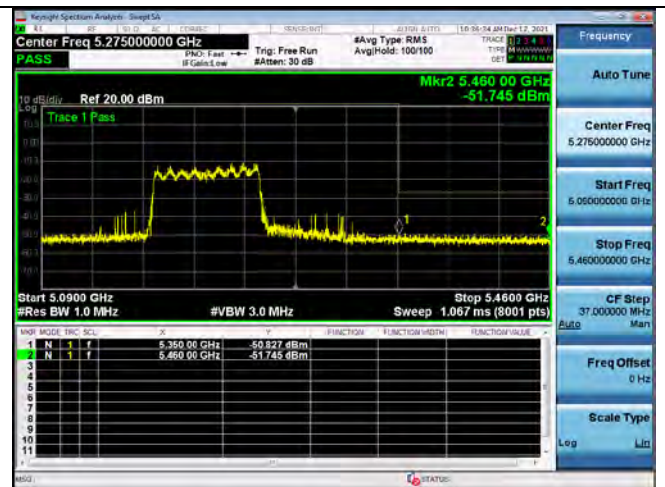
Highest channel

Test mode:



Lowest channel

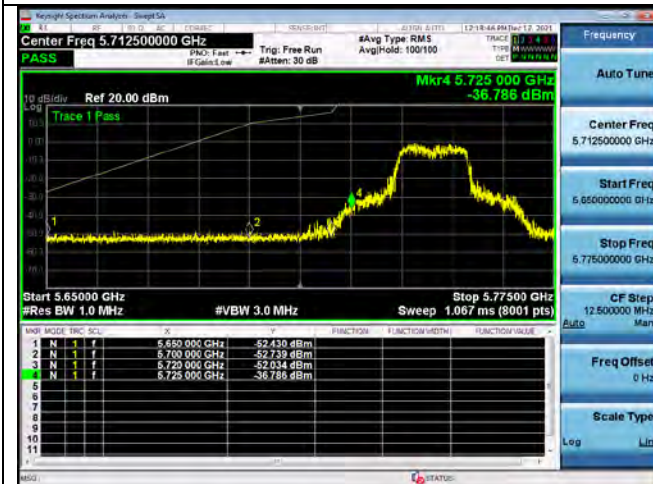
802.11ac80



Highest channel

ANT1-band 4

Test mode:



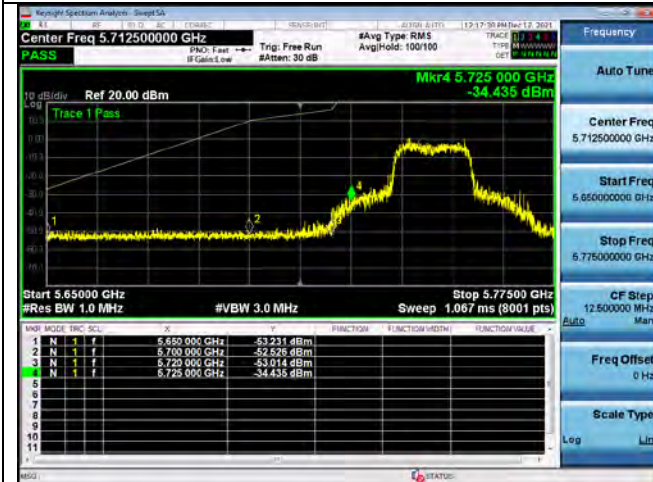
Lowest channel

802.11a



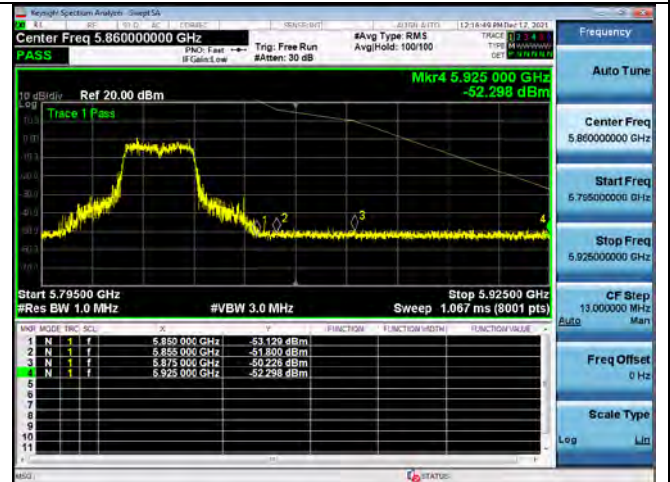
Highest channel

Test mode:



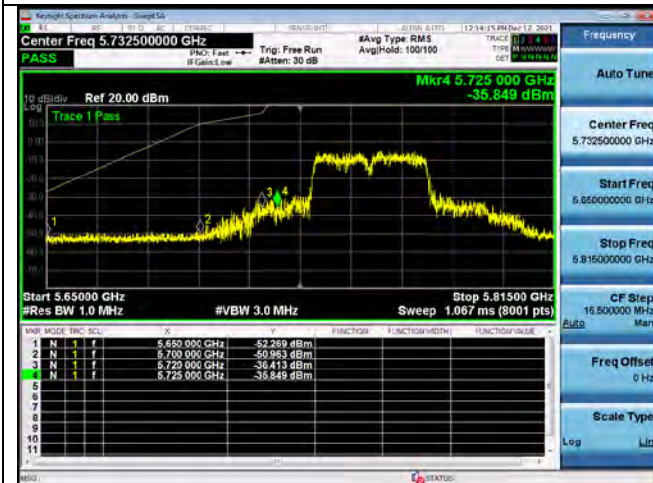
Lowest channel

802.11n20



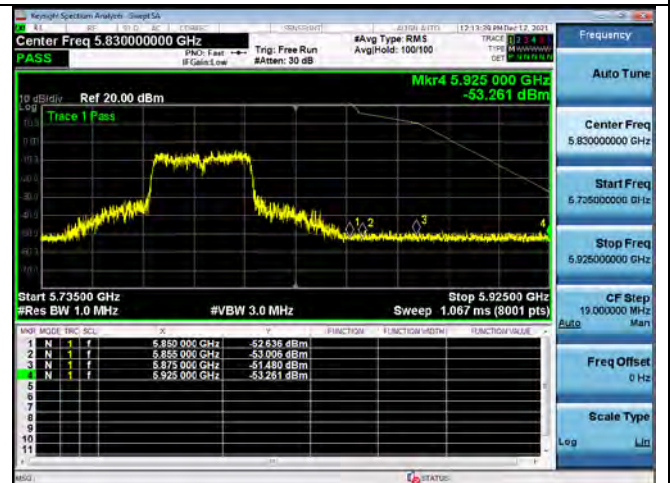
Highest channel

Test mode:



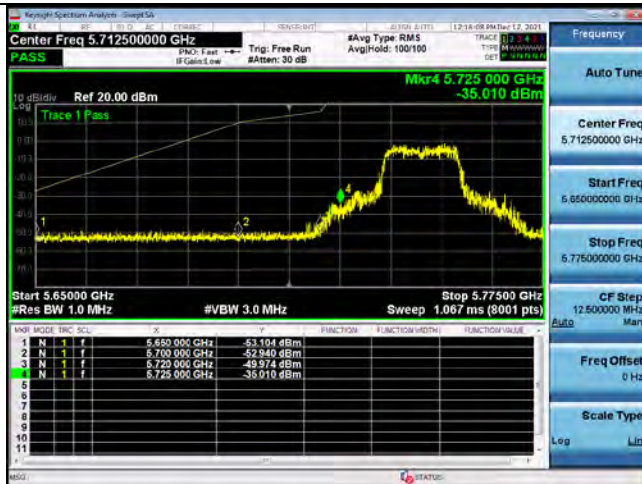
Lowest channel

802.11n40



Highest channel

Test mode:



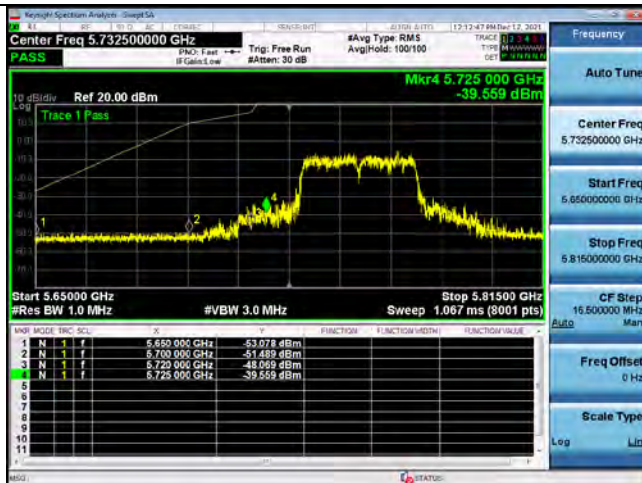
Lowest channel

802.11ac20



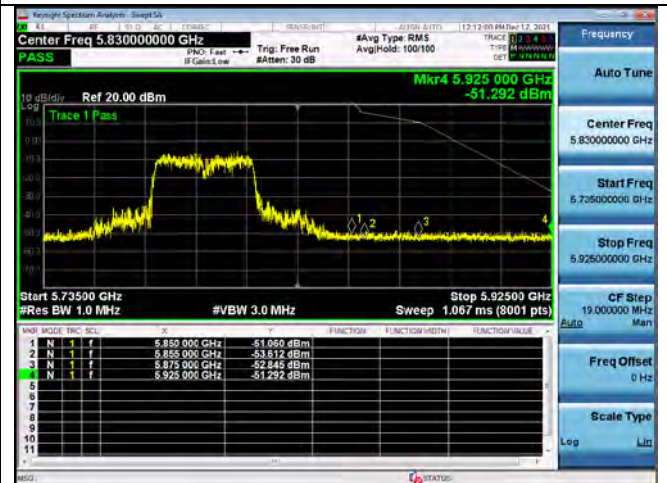
Highest channel

Test mode:



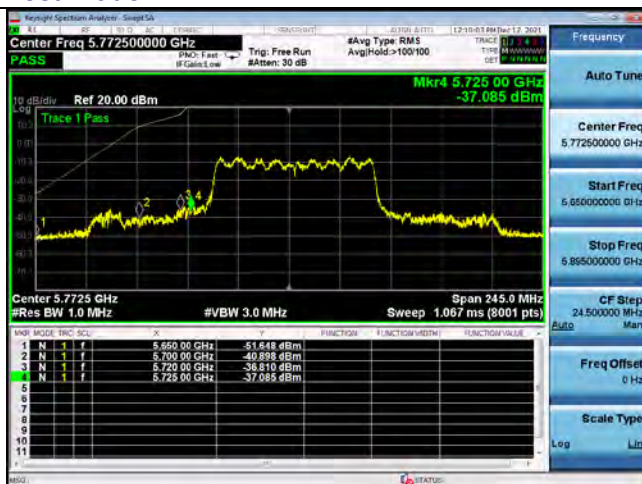
Lowest channel

802.11ac40



Highest channel

Test mode:



Lowest channel

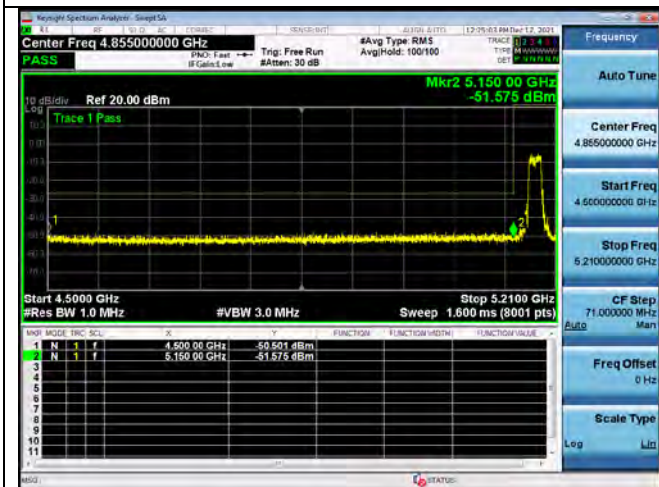
802.11ac80



Highest channel

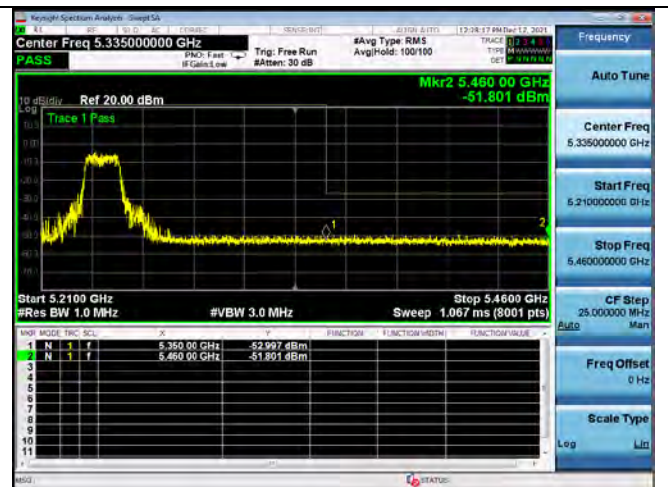
ANT2-band1

Test mode:



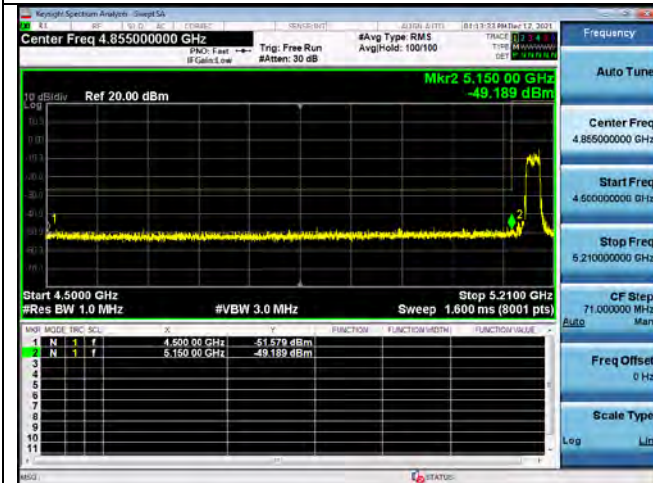
Lowest channel

802.11a



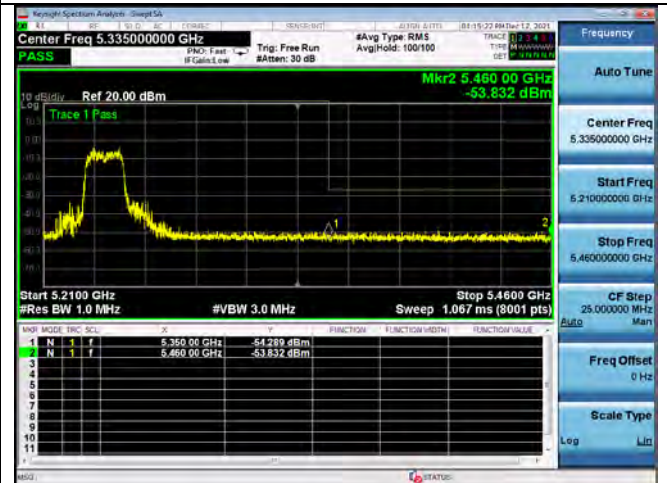
Highest channel

Test mode:



Lowest channel

802.11n20



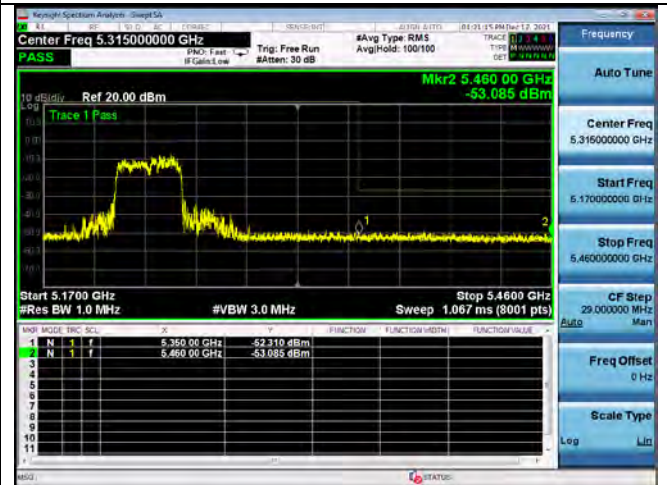
Highest channel

Test mode:

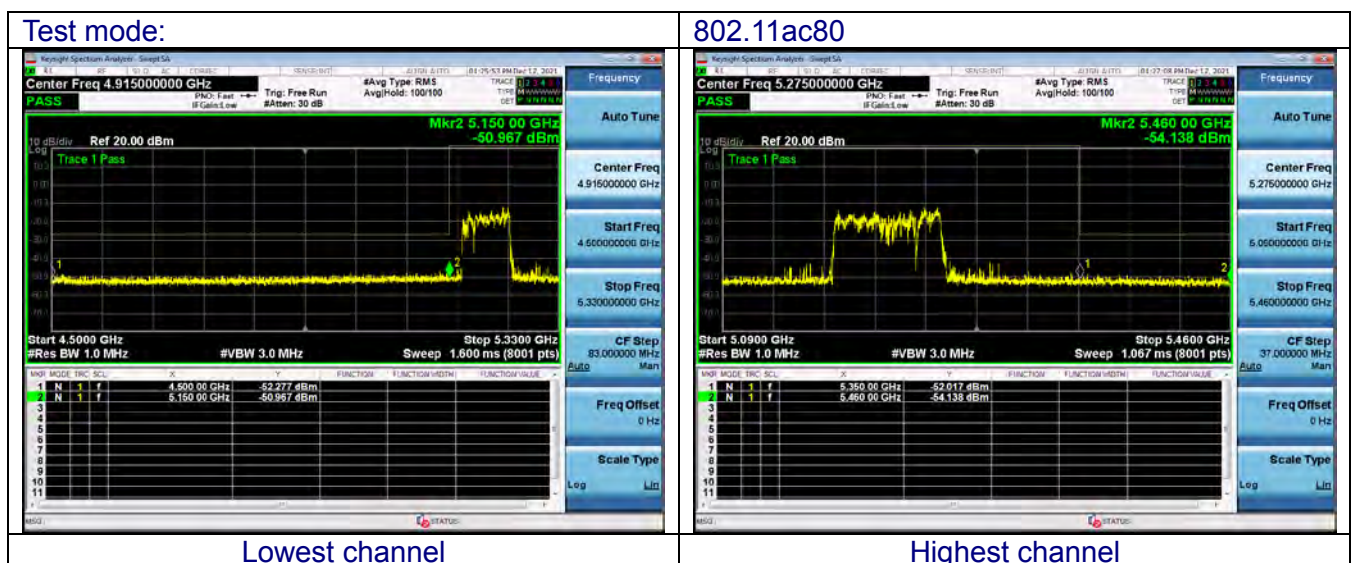
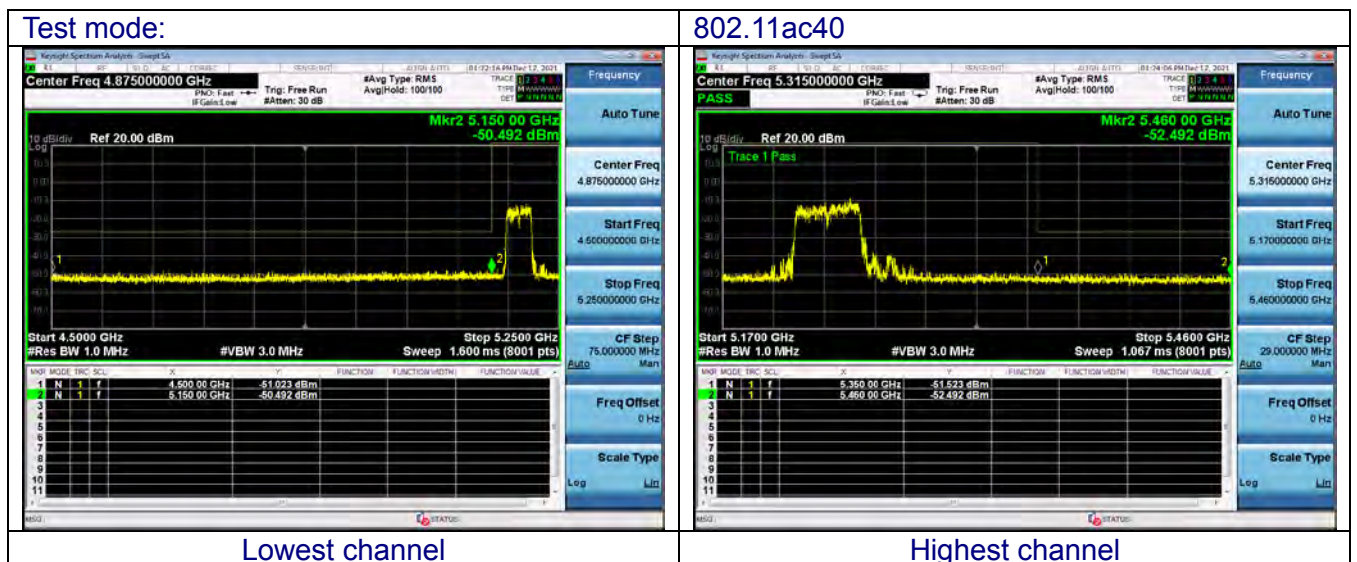
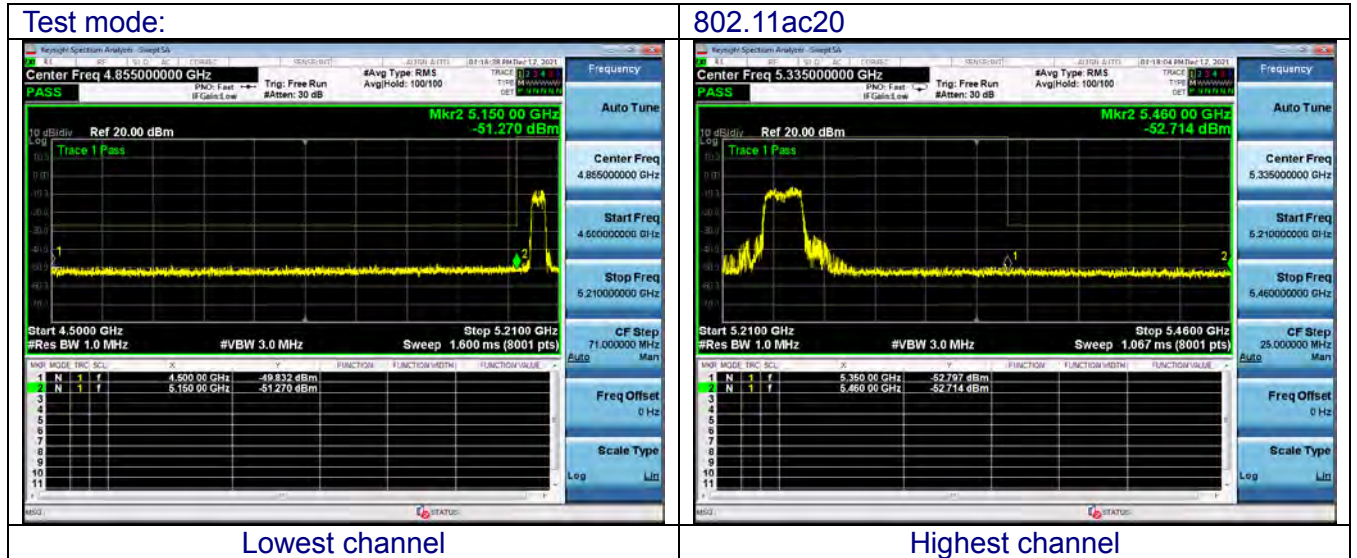


Lowest channel

802.11n40

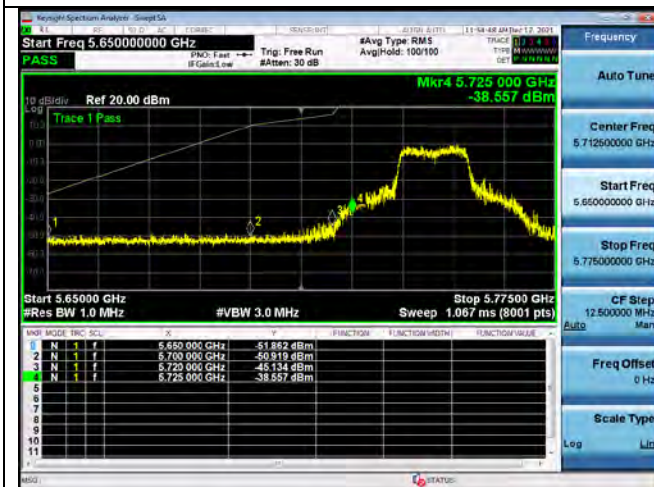


Highest channel



ANT2-band 4

Test mode:



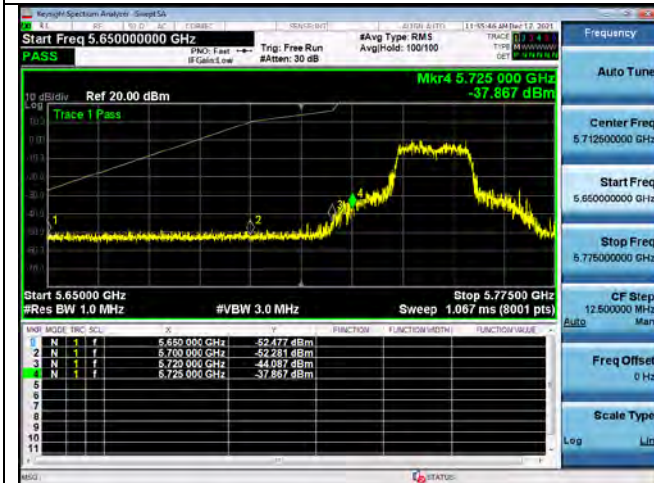
Lowest channel

802.11a



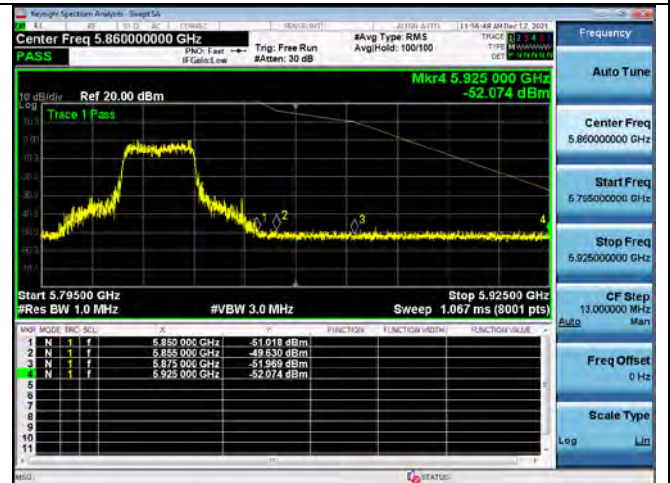
Highest channel

Test mode:



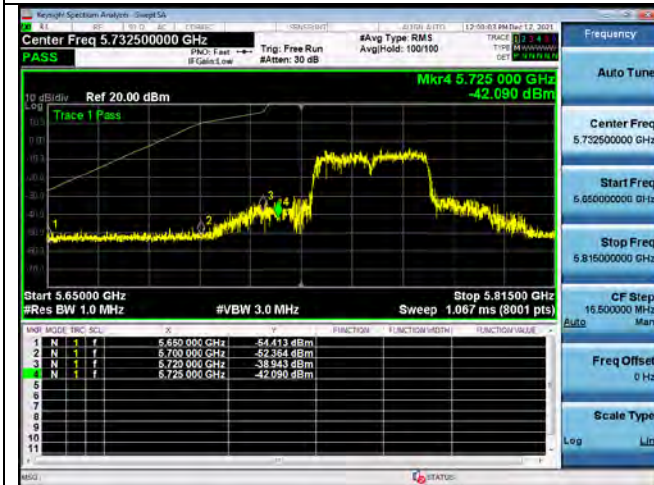
Lowest channel

802.11n20



Highest channel

Test mode:



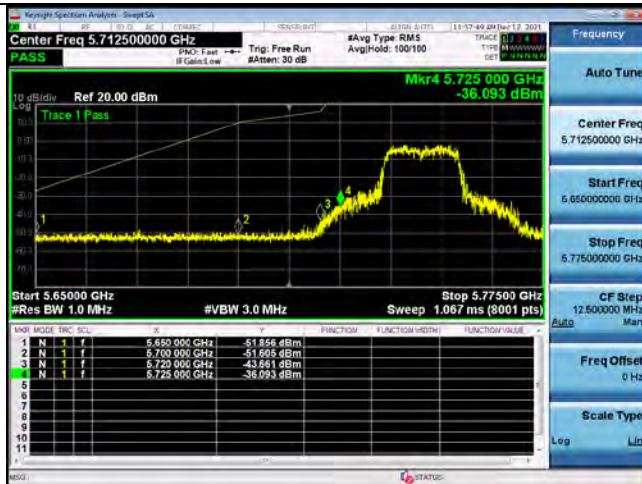
Lowest channel

802.11n40



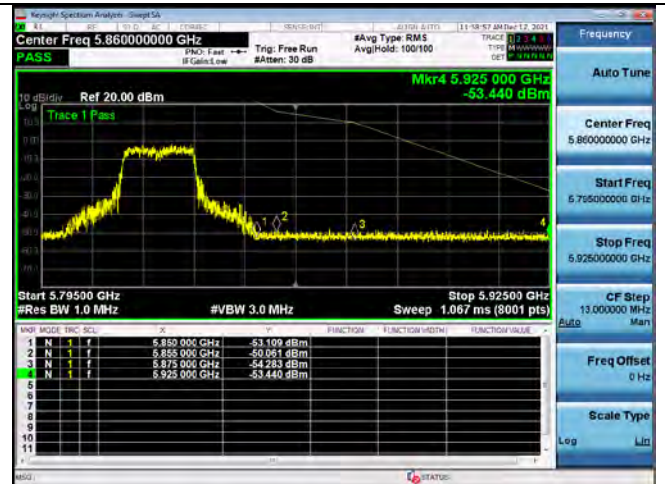
Highest channel

Test mode:



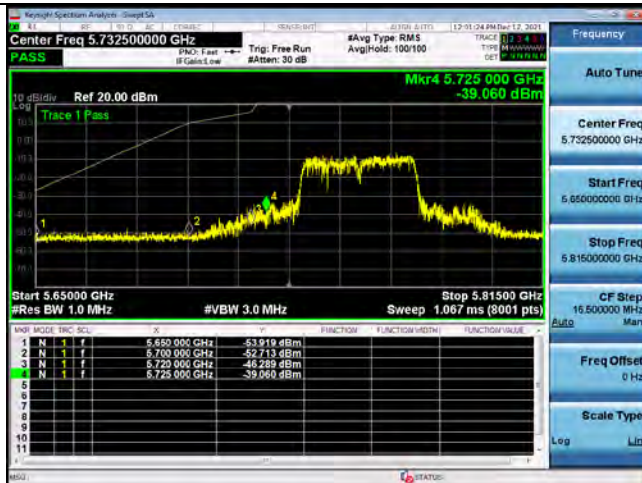
Lowest channel

802.11ac20



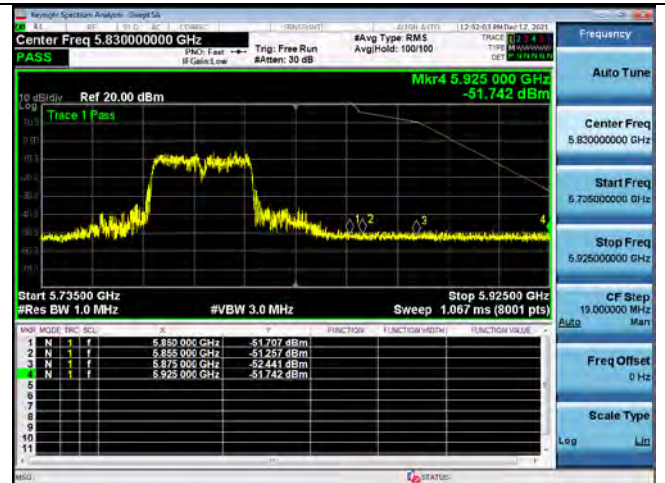
Highest channel

Test mode:



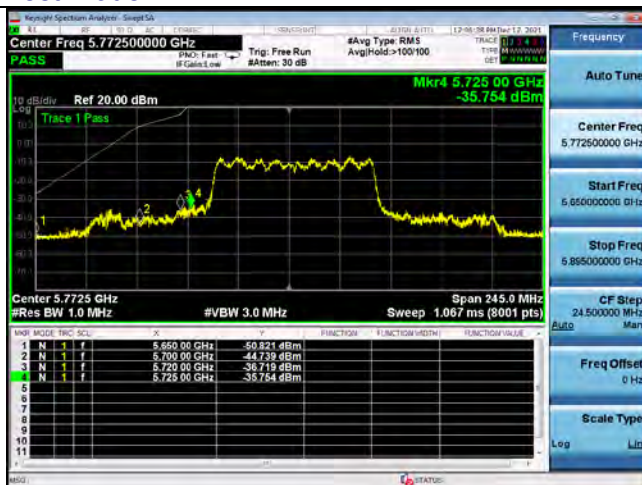
Lowest channel

802.11ac40



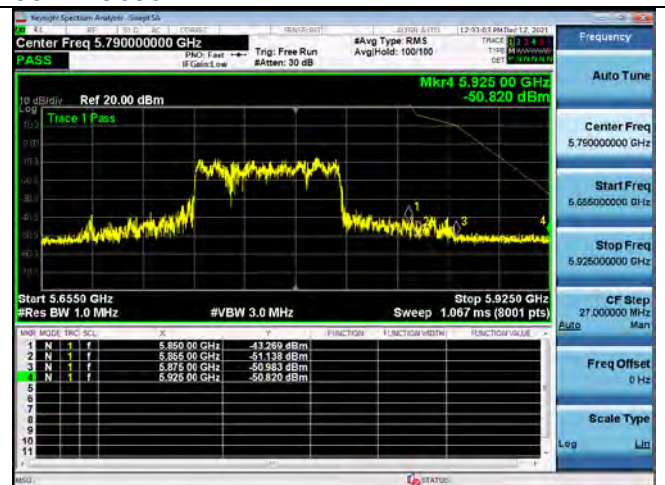
Highest channel

Test mode:



Lowest channel

802.11ac80



Highest channel

9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

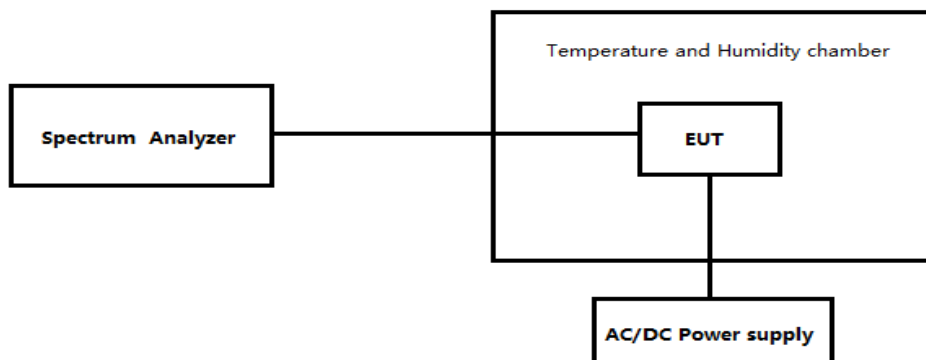
According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of

normal operation as specified in the user's manual.

9.2 TESTPROCEDURE

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

9.3 TESTCONFIGURATION



9.4 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V

Note: Only the test results of the worst channel are displayed

ANT1-802.11a-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	72	0.0140
40	120	84	0.0161
30	120	78	0.0151
20	120	75	0.0144
10	120	70	0.0136
0	120	87	0.0169
-10	120	80	0.0154
-20	120	87	0.0167
-30	120	71	0.0136

ANT1-802.11a-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	75	0.0143
40	120	85	0.0162
30	120	74	0.0141
20	120	70	0.0134
10	120	84	0.0161
0	120	88	0.0169
-10	120	67	0.0128
-20	120	88	0.0168
-30	120	63	0.0120

ANT1-802.11a-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	75	0.0131
40	120	88	0.0153
30	120	77	0.0133
20	120	78	0.0136
10	120	74	0.0129
0	120	88	0.0153
-10	120	77	0.0134
-20	120	84	0.0146
-30	120	66	0.0115

ANT1-802.11a-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	78	0.0133
40	120	86	0.0148
30	120	74	0.0127
20	120	78	0.0134
10	120	77	0.0132
0	120	90	0.0154
-10	120	70	0.0120
-20	120	87	0.0149
-30	120	65	0.0112

ANT1-802.11n20-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0142
40	120	87	0.0169
30	120	71	0.0138
20	120	77	0.0148
10	120	72	0.0139
0	120	89	0.0171
-10	120	70	0.0135
-20	120	87	0.0168
-30	120	66	0.0128

ANT1-802.11n20-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	78	0.0148
40	120	89	0.0170
30	120	83	0.0159
20	120	71	0.0135
10	120	78	0.0149
0	120	89	0.0169
-10	120	70	0.0133
-20	120	83	0.0158
-30	120	78	0.0149

ANT1-802.11n20-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	78	0.0135
40	120	84	0.0146
30	120	73	0.0127
20	120	69	0.0120
10	120	77	0.0133
0	120	89	0.0154
-10	120	76	0.0132
-20	120	83	0.0145
-30	120	65	0.0114

ANT1-802.11n20-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	78	0.0134
40	120	84	0.0143
30	120	82	0.0141
20	120	73	0.0125
10	120	79	0.0135
0	120	87	0.0150
-10	120	79	0.0136
-20	120	85	0.0146
-30	120	64	0.0110

ANT1-802.11n40-CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	73	0.0142
40	120	84	0.0162
30	120	71	0.0136
20	120	78	0.0151
10	120	69	0.0133
0	120	89	0.0171
-10	120	65	0.0126
-20	120	87	0.0167
-30	120	66	0.0126

ANT1-802.11n40-CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	77	0.0147
40	120	86	0.0165
30	120	84	0.0160
20	120	79	0.0152
10	120	67	0.0128
0	120	87	0.0167
-10	120	76	0.0146
-20	120	85	0.0162
-30	120	74	0.0142

ANT1-802.11n40-CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	72	0.0124
40	120	87	0.0151
30	120	82	0.0142
20	120	78	0.0135
10	120	68	0.0117
0	120	88	0.0153
-10	120	67	0.0116
-20	120	85	0.0147
-30	120	66	0.0114

ANT1-802.11n40-CH159

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	79	0.0136
40	120	83	0.0144
30	120	78	0.0134
20	120	76	0.0131
10	120	70	0.0122
0	120	89	0.0153
-10	120	69	0.0118
-20	120	84	0.0145
-30	120	64	0.0110

ANT1-802.11ac20-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	70	0.0136
40	120	85	0.0165
30	120	73	0.0141
20	120	78	0.0151
10	120	79	0.0153
0	120	87	0.0168
-10	120	77	0.0148
-20	120	89	0.0172
-30	120	70	0.0134

ANT1-802.11ac20-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0142
40	120	83	0.0158
30	120	84	0.0161
20	120	79	0.0150
10	120	66	0.0125
0	120	89	0.0169
-10	120	77	0.0146
-20	120	83	0.0158
-30	120	67	0.0128

ANT1-802.11ac20-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	80	0.0139
40	120	84	0.0146
30	120	77	0.0133
20	120	77	0.0135
10	120	70	0.0121
0	120	88	0.0154
-10	120	76	0.0132
-20	120	89	0.0154
-30	120	78	0.0135

ANT1-802.11ac20-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	76	0.0131
40	120	89	0.0152
30	120	76	0.0131
20	120	71	0.0122
10	120	80	0.0137
0	120	87	0.0150
-10	120	66	0.0113
-20	120	90	0.0154
-30	120	79	0.0136

ANT1-802.11ac40-CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0143
40	120	83	0.0160
30	120	72	0.0139
20	120	77	0.0148
10	120	76	0.0146
0	120	88	0.0170
-10	120	67	0.0128
-20	120	83	0.0160
-30	120	61	0.0118

ANT1-802.11ac40-CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	71	0.0136
40	120	84	0.0161
30	120	72	0.0137
20	120	71	0.0135
10	120	78	0.0148
0	120	88	0.0169
-10	120	75	0.0143
-20	120	88	0.0168
-30	120	61	0.0117

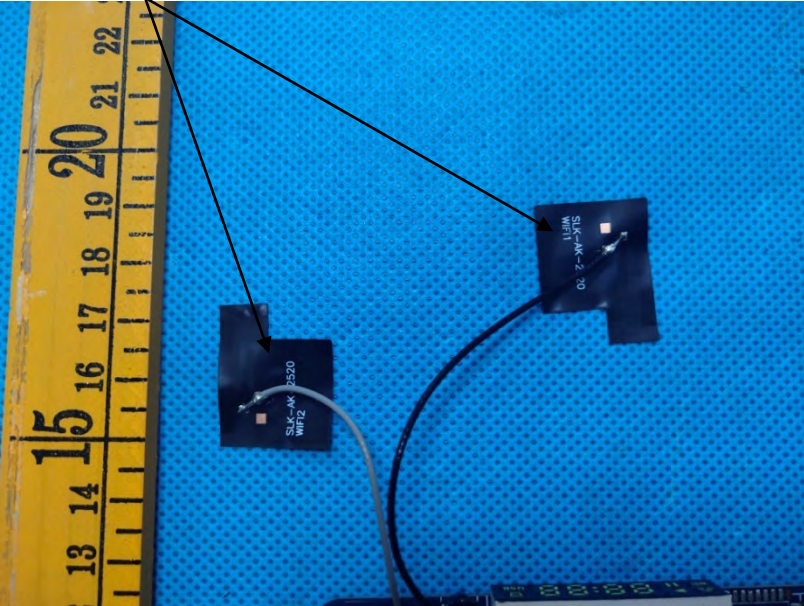
ANT1-802.11ac40-CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	77	0.0133
40	120	87	0.0151
30	120	77	0.0134
20	120	71	0.0124
10	120	74	0.0129
0	120	88	0.0153
-10	120	75	0.0130
-20	120	88	0.0153
-30	120	61	0.0106

ANT1-802.11ac40-CH159

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	73	0.0125
40	120	87	0.0149
30	120	71	0.0123
20	120	73	0.0125
10	120	67	0.0116
0	120	87	0.0151
-10	120	75	0.0130
-20	120	84	0.0144
-30	120	75	0.0129

10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. Refer to statement below for compliance. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed. Antenna Connected Construction The antenna used in this product is a Glue stick antenna, and the best case gain of the antenna is antenna port 1:3dBi and Antenna port 2:3dBi, and MIMO gain is 6.01dBi EUT Antenna: 2.4Gwifi & 5Gwifi ANT 	

10. TEST SETUP PHOTO

Please refer to the report NO.: ZKT-211213L6860-01

11. EUT CONSTRUCTIONAL DETAILS

Reference to the external photos file and internal photos file for details.

******* END OF REPORT *******