

FCC TEST REPORT

FCC ID:2A4AOLCX-ZJ1200

Report Number..... : ZKT-220110L0221-02

Date of Test..... Jan. 04, 2022 – Jan. 18, 2022

Date of issue : Jan. 18, 2022

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 Lingchuangxun Technology Co., Ltd

Address : 3th floor, building C, ideemonto Industrial Park, 7002 Songbai Road, Guangming District, ShenZhen

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

Address : 3th floor, building C, ideemonto Industrial Park, 7002 Songbai Road, Guangming District, ShenZhen

Test specification:

Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407
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.

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Product name..... : WiFi Repeater

Trademark : /

Model/Type reference : LCX-ZJ1200-003

Ratings..... : AC 120V 50/60Hz

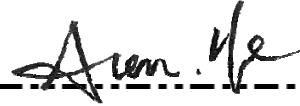
Testing procedure and testing location:**Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.****Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**
-----**Tested by (name + signature): Alen He**
-----**Reviewer (name + signature).....: Joe Liu**
-----**Approved (name + signature): Lake Xie**
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1. VERSION

Report No.	Version	Description	Approved
ZKT-220110L0221-02	Rev.01	Initial issue of report	Jan. 18, 2022

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 expanded 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:	WiFi Repeater		
Model No.:	LCX-ZJ1200-003		
Serial No.:	/		
Hardware Version:	LCX-ZJ1200-003		
Software Version:	V1.0.6.0		
Sample(s) Status:	Engineer sample		
	IEEE802.11 WLAN mode supported	802.11a/n/ac(20MHz channel bandwidth)	
		802.11n/ ac (40MHz channel bandwidth)	
		802.11n/ ac (80MHz channel bandwidth)	
	Date rate	802.11ac:MCS0-MCS9	
		802.11n: MCS0-MCS7	
	Modulation	OFDM	
	Band 1	Frequency Range	802.11 a : 5180-5240MHz 802.11 n HT20 : 5180-5240MHz 802.11 n HT40 : 5190-5230MHz 802.11 ac HT20: 5180-5240MHz 802.11 ac HT40: 5190-5230MHz 802.11 ac HT80 : 5210MHz
		Channels	802.11 a/ac /n (HT20): 4 802.11 ac /n (HT40): 2 802.11 ac(HT80): 1
	BAND 4	Frequency Range	802.11 a : 5745-5825 MHz 802.11 n HT20: 5745-5825 MHz 802.11 n HT40: 5755-5795 MHz 802.11 ac HT20: 5745-5825 MHz 802.11 ac HT40: 5755-5795 MHz 802.11 ac HT80: 5775 MHz
		Channels	IEEE802.11 a/ac /n (HT20): 5 IEEE802.11 ac /n (HT40): 2 IEEE802.11 ac(HT80): 1
Antenna Type:	Glue stick antenna		
Antenna gain:	WIFI ANT1: 2dBi; WIFI ANT2: 2dBi ; MIMO:5.01dBi		
Power supply:	AC 120V 50/60Hz		

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

802.11ac (80MHz BW) Frequency / Channel Operations

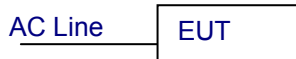
3.2 DESCRIPTION OF TEST MODES

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

Description	5 GHz Emission
Antenna	MIMO
Channel	38
Operating Frequency (MHz)	802.11N
Data Rate (Mbps)	OFDM/13.5Mbps
Mode	Band I –N-5180MHz

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	PC	HP	HP40		Provide by lab

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. 20, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2021	Sep. 20, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Sep. 21, 2021	Sep. 20, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2021	Sep. 20, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2021	Sep. 20, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2021	Sep. 20, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2021	Sep. 20, 2022
8	Amplifier (1GHz-40GHz)	QUANJUDA	DLE-161	097	Sep. 21, 2021	Sep. 20, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2021	Sep. 20, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2021	Sep. 20, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2021	Sep. 20, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2021	Sep. 20, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2021	Sep. 20, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2021	Sep. 20, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2021	Sep. 20, 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. 20, 2022
2	LISN	CYBERTEK	EM5040A	E1850400149	Sep. 21, 2021	Sep. 20, 2022
3	Test Cable	N/A	C01	N/A	Sep. 21, 2021	Sep. 20, 2022
4	Test Cable	N/A	C02	N/A	Sep. 21, 2021	Sep. 20, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 21, 2021	Sep. 20, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2021	Sep. 20, 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.

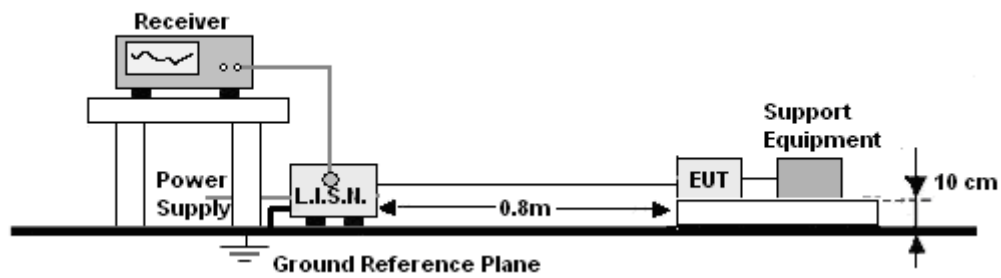
4.1.2 TEST PROCEDURE

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



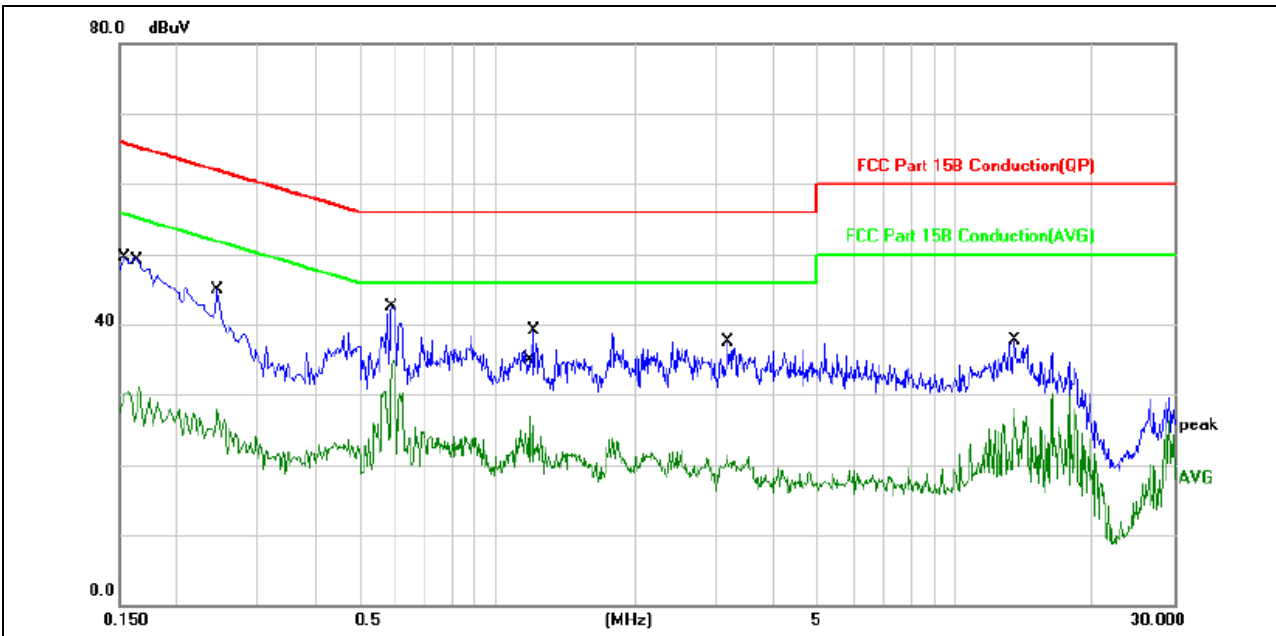
4.1.5 EUT OPERATING CONDITIONS

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		

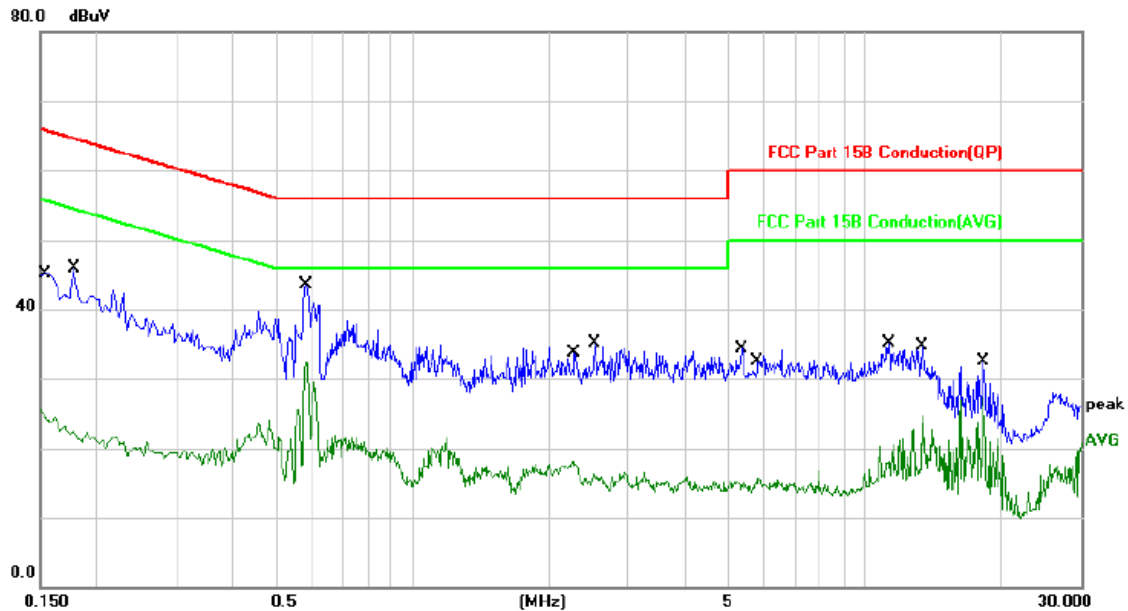


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	39.79	9.75	49.54	65.78	-16.24	QP	
2		0.1660	21.41	9.75	31.16	55.15	-23.99	AVG	
3		0.2460	35.10	9.77	44.87	61.89	-17.02	QP	
4		0.2460	18.12	9.77	27.89	51.89	-24.00	AVG	
5		0.5899	32.56	9.84	42.40	56.00	-13.60	QP	
6	*	0.5940	25.14	9.84	34.98	46.00	-11.02	AVG	
7		1.1780	17.09	9.73	26.82	46.00	-19.18	AVG	
8		1.2020	29.34	9.73	39.07	56.00	-16.93	QP	
9		3.1860	11.54	9.70	21.24	46.00	-24.76	AVG	
10		3.1940	27.88	9.70	37.58	56.00	-18.42	QP	
11		13.3580	18.27	9.74	28.01	50.00	-21.99	AVG	
12		13.4820	27.91	9.74	37.65	60.00	-22.35	QP	

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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1499	15.67	9.75	25.42	56.00	-30.58	AVG	
2	0.1780	36.21	9.75	45.96	64.57	-18.61	QP	
3 *	0.5820	33.72	9.84	43.56	56.00	-12.44	QP	
4	0.5820	22.68	9.84	32.52	46.00	-13.48	AVG	
5	2.2780	8.50	9.63	18.13	46.00	-27.87	AVG	
6	2.5260	25.32	9.72	35.04	56.00	-20.96	QP	
7	5.3419	24.71	9.65	34.36	60.00	-25.64	QP	
8	5.7859	6.06	9.65	15.71	50.00	-34.29	AVG	
9	11.2819	25.24	9.77	35.01	60.00	-24.99	QP	
10	13.3579	14.88	9.74	24.62	50.00	-25.38	AVG	
11	18.2419	22.87	9.58	32.45	60.00	-27.55	QP	
12	18.2419	17.70	9.58	27.28	50.00	-22.72	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 1GHz and 1.5 meter for frequency above 1GHz. The interface cable and equipment positions 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 out side 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:

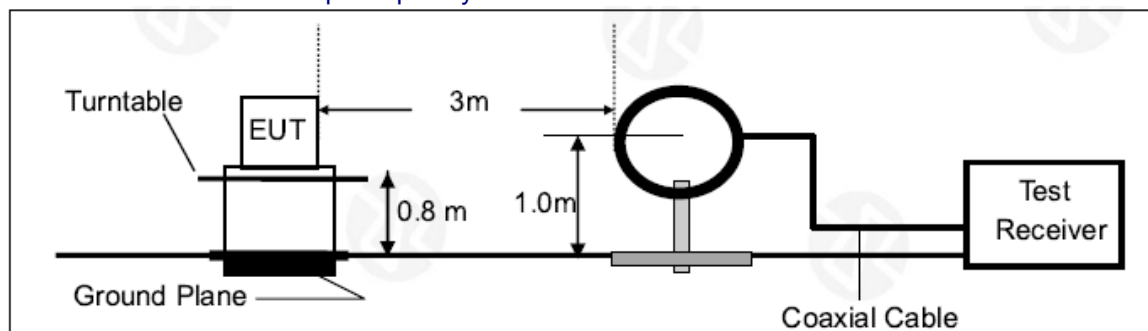
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

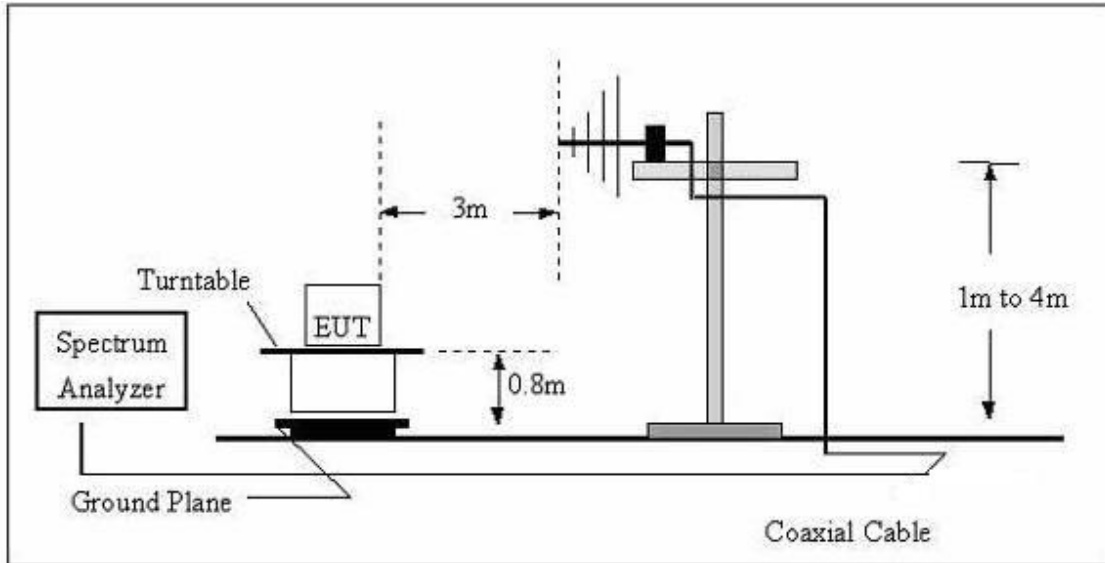
No deviation

4.2.4 TEST SETUP

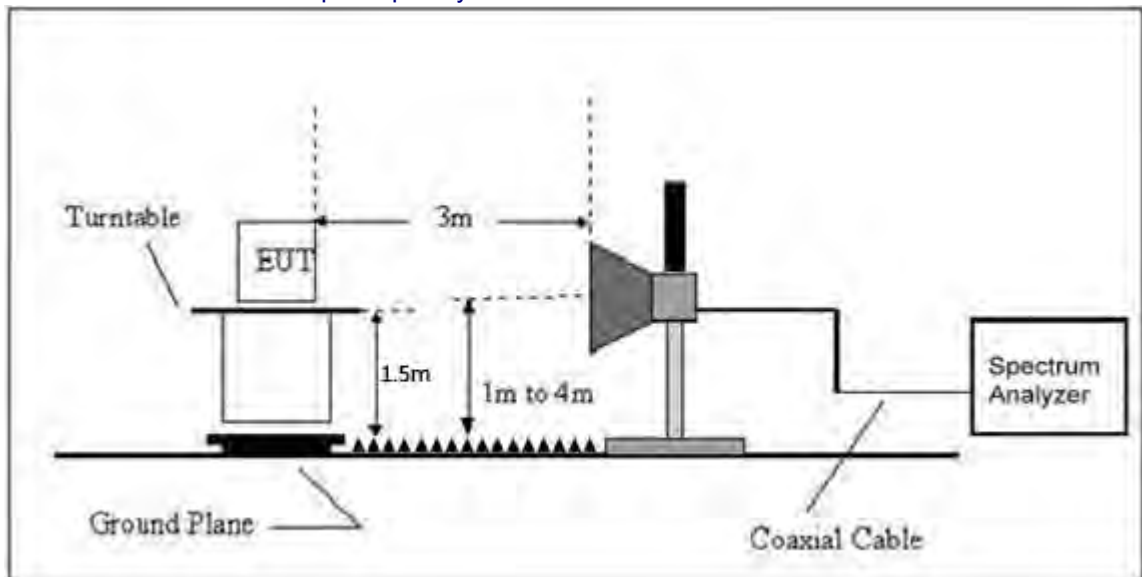
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

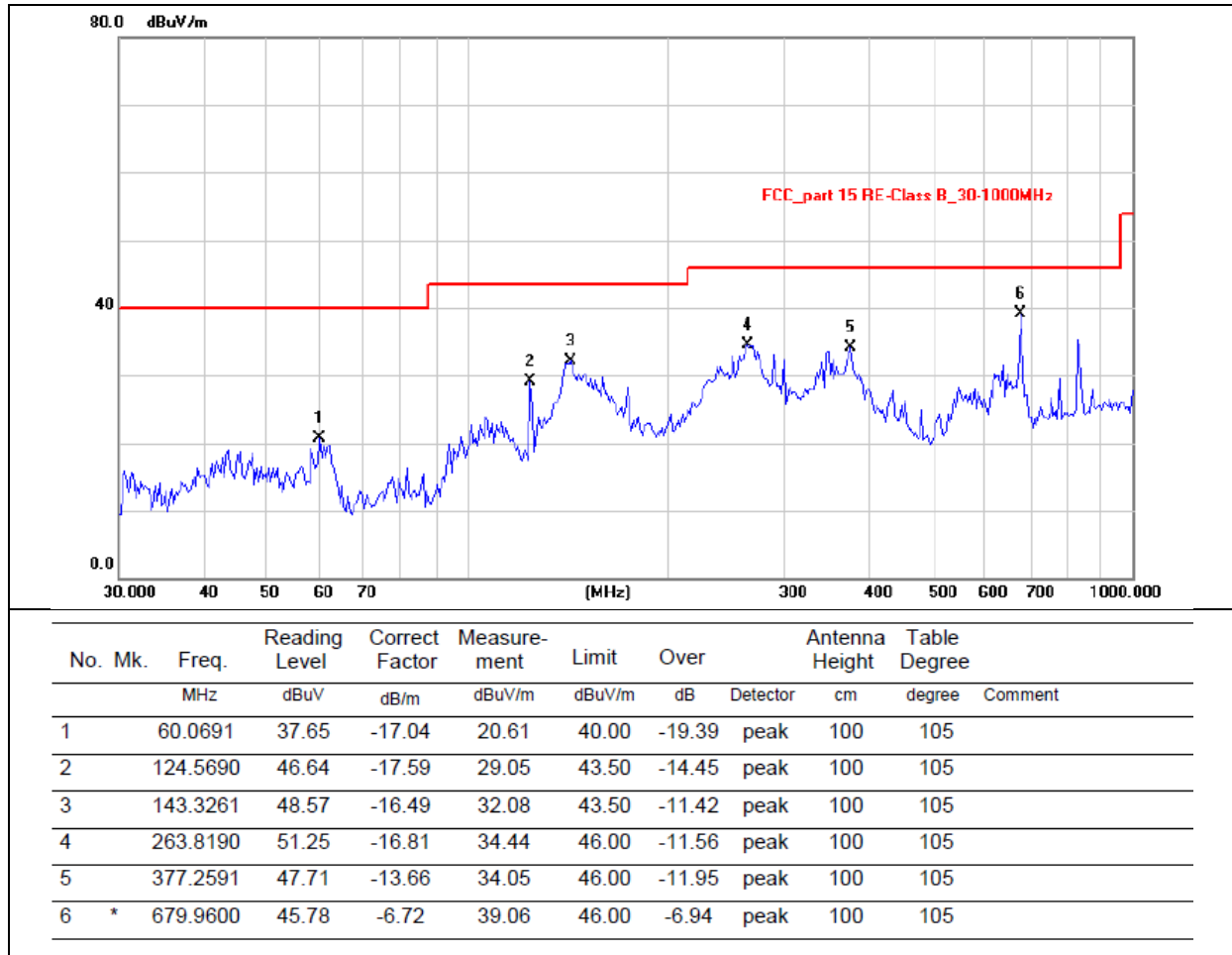
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

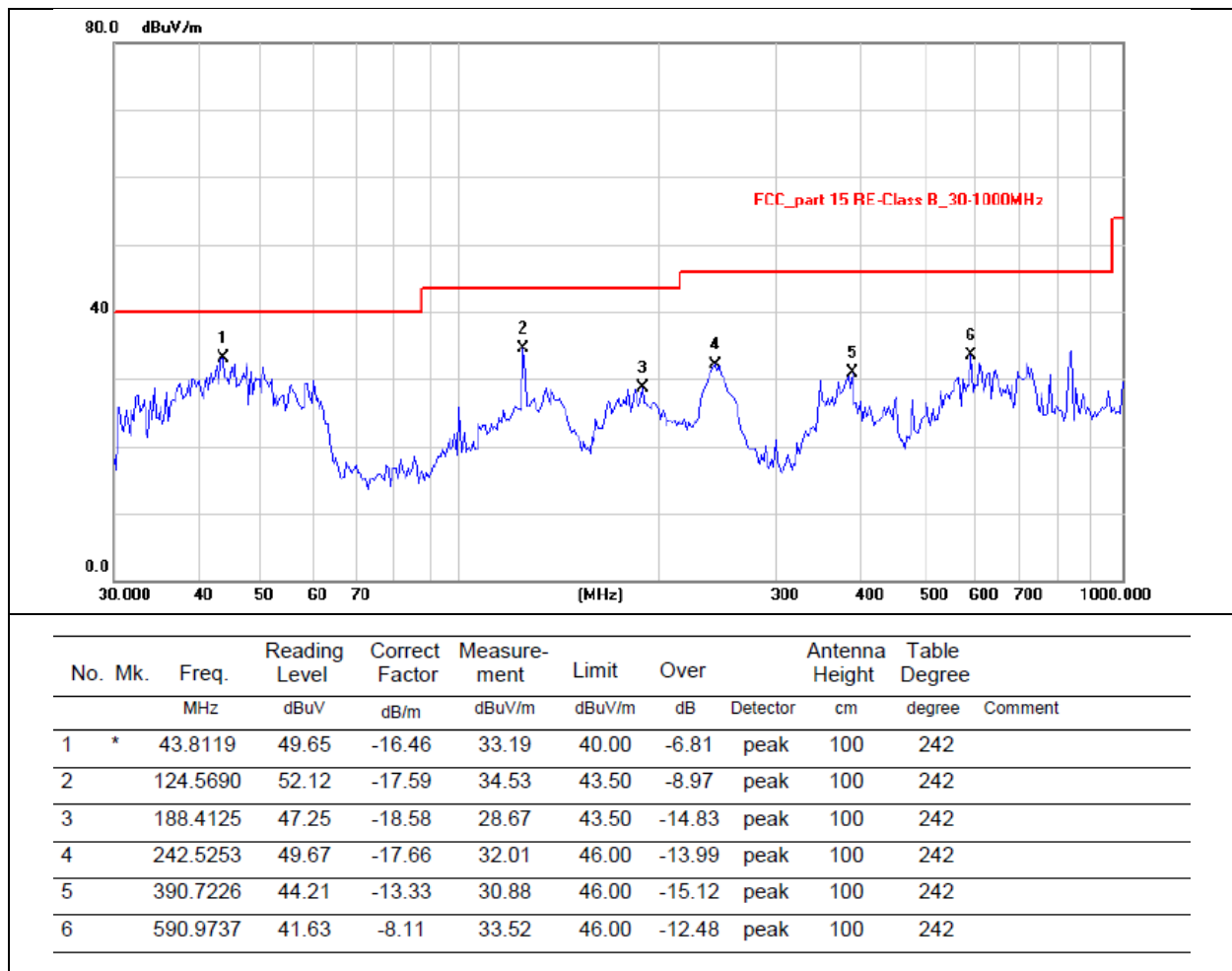
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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		



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	50.43	30.85	7.45	24.69	51.72	74	-22.28	PK
V	10360	36.06	30.85	7.45	24.69	37.35	54	-16.65	AV
V	15540	51.69	31.38	7.45	24.75	52.51	74	-21.49	PK
V	15540	39.64	31.38	7.45	24.75	40.46	54	-13.54	AV
V	20720	51.34	31.76	7.45	24.86	51.89	74	-22.11	PK
V	20720	38.01	31.76	7.45	24.86	38.56	54	-15.44	AV
H	10360	49.33	30.85	7.45	24.69	50.62	74	-23.38	PK
H	10360	39.99	30.85	7.45	24.69	41.28	54	-12.72	AV
H	15540	52.17	31.38	7.45	24.75	52.99	74	-21.01	PK
H	15540	37.84	31.38	7.45	24.75	38.66	54	-15.34	AV
H	20720	50.82	31.76	7.45	24.86	51.37	74	-22.63	PK
H	20720	39.29	31.76	7.45	24.86	39.84	54	-14.16	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	49.26	30.85	7.45	24.69	50.55	74	-23.45	PK
V	10400	36.51	30.85	7.45	24.69	37.80	54	-16.20	AV
V	15600	50.01	31.38	7.45	24.75	50.83	74	-23.17	PK
V	15600	39.24	31.38	7.45	24.75	40.06	54	-13.94	AV
V	20800	49.11	31.76	7.45	24.86	49.66	74	-24.34	PK
V	20800	39.65	31.76	7.45	24.86	40.20	54	-13.80	AV
H	10400	50.31	30.85	7.45	24.69	51.60	74	-22.40	PK
H	10400	41.71	30.85	7.45	24.69	43.00	54	-11.00	AV
H	15600	53.35	31.38	7.45	24.75	54.17	74	-19.83	PK
H	15600	38.34	31.38	7.45	24.75	39.16	54	-14.84	AV
H	20800	51.65	31.76	7.45	24.86	52.20	74	-21.80	PK
H	20800	38.61	31.76	7.45	24.86	39.16	54	-14.84	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	51.16	30.85	7.45	24.69	52.45	74	-21.55	PK
V	10480	37.50	30.85	7.45	24.69	38.79	54	-15.21	AV
V	15720	51.65	31.38	7.45	24.75	52.47	74	-21.53	PK
V	15720	38.58	31.38	7.45	24.75	39.40	54	-14.60	AV
V	20960	49.98	31.76	7.45	24.86	50.53	74	-23.47	PK
V	20960	38.71	31.76	7.45	24.86	39.26	54	-14.74	AV
H	10480	49.86	30.85	7.45	24.69	51.15	74	-22.85	PK
H	10480	41.71	30.85	7.45	24.69	43.00	54	-11.00	AV
H	15720	52.99	31.38	7.45	24.75	53.81	74	-20.19	PK
H	15720	40.52	31.38	7.45	24.75	41.34	54	-12.66	AV
H	20960	50.89	31.76	7.45	24.86	51.44	74	-22.56	PK
H	20960	38.50	31.76	7.45	24.86	39.05	54	-14.95	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	49.54	30.85	7.45	24.69	50.83	74	-23.17	PK
V	11490	37.05	30.85	7.45	24.69	38.34	54	-15.66	AV
V	17235	49.96	31.38	7.45	24.75	50.78	74	-23.22	PK
V	17235	38.27	31.38	7.45	24.75	39.09	54	-14.91	AV
V	22980	49.44	31.76	7.45	24.86	49.99	74	-24.01	PK
V	22980	39.09	31.76	7.45	24.86	39.64	54	-14.36	AV
H	11490	51.39	30.85	7.45	24.69	52.68	74	-21.32	PK
H	11490	39.49	30.85	7.45	24.69	40.78	54	-13.22	AV
H	17235	53.49	31.38	7.45	24.75	54.31	74	-19.69	PK
H	17235	37.86	31.38	7.45	24.75	38.68	54	-15.32	AV
H	22980	50.16	31.76	7.45	24.86	50.71	74	-23.29	PK
H	22980	38.08	31.76	7.45	24.86	38.63	54	-15.37	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	50.79	30.85	7.45	24.69	52.08	74	-21.92	PK
V	11570	37.57	30.85	7.45	24.69	38.86	54	-15.14	AV
V	17355	51.74	31.38	7.45	24.75	52.56	74	-21.44	PK
V	17355	40.69	31.38	7.45	24.75	41.51	54	-12.49	AV
V	23140	49.96	31.76	7.45	24.86	50.51	74	-23.49	PK
V	23140	40.61	31.76	7.45	24.86	41.16	54	-12.84	AV
H	11570	51.09	30.85	7.45	24.69	52.38	74	-21.62	PK
H	11570	39.03	30.85	7.45	24.69	40.32	54	-13.68	AV
H	17355	52.89	31.38	7.45	24.75	53.71	74	-20.29	PK
H	17355	39.17	31.38	7.45	24.75	39.99	54	-14.01	AV
H	23140	50.43	31.76	7.45	24.86	50.98	74	-23.02	PK
H	23140	38.72	31.76	7.45	24.86	39.27	54	-14.73	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	48.93	30.85	7.45	24.69	50.22	74	-23.78	PK
V	11650	38.53	30.85	7.45	24.69	39.82	54	-14.18	AV
V	17475	51.28	31.38	7.45	24.75	52.10	74	-21.90	PK
V	17475	39.51	31.38	7.45	24.75	40.33	54	-13.67	AV
V	23300	49.03	31.76	7.45	24.86	49.58	74	-24.42	PK
V	23300	40.10	31.76	7.45	24.86	40.65	54	-13.35	AV
H	11650	50.41	30.85	7.45	24.69	51.70	74	-22.30	PK
H	11650	41.05	30.85	7.45	24.69	42.34	54	-11.66	AV
H	17475	53.05	31.38	7.45	24.75	53.87	74	-20.13	PK
H	17475	39.64	31.38	7.45	24.75	40.46	54	-13.54	AV
H	23300	49.92	31.76	7.45	24.86	50.47	74	-23.53	PK
H	23300	39.00	31.76	7.45	24.86	39.55	54	-14.45	AV

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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:5180MHz									
V	10360	50.59	30.85	7.45	24.69	51.88	74	-22.12	PK
V	10360	38.48	30.85	7.45	24.69	39.77	54	-14.23	AV
V	15540	51.49	31.38	7.45	24.75	52.31	74	-21.69	PK
V	15540	37.76	31.38	7.45	24.75	38.58	54	-15.42	AV
V	20720	49.22	31.76	7.45	24.86	49.77	74	-24.23	PK
V	20720	39.27	31.76	7.45	24.86	39.82	54	-14.18	AV
H	10360	49.00	30.85	7.45	24.69	50.29	74	-23.71	PK
H	10360	40.74	30.85	7.45	24.69	42.03	54	-11.97	AV
H	15540	53.26	31.38	7.45	24.75	54.08	74	-19.92	PK
H	15540	38.30	31.38	7.45	24.75	39.12	54	-14.88	AV
H	20720	51.34	31.76	7.45	24.86	51.89	74	-22.11	PK
H	20720	38.16	31.76	7.45	24.86	38.71	54	-15.29	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	50.05	30.85	7.45	24.69	51.34	74	-22.66	PK
V	10400	35.87	30.85	7.45	24.69	37.16	54	-16.84	AV
V	15600	50.15	31.38	7.45	24.75	50.97	74	-23.03	PK
V	15600	38.28	31.38	7.45	24.75	39.10	54	-14.90	AV
V	20800	49.88	31.76	7.45	24.86	50.43	74	-23.57	PK
V	20800	39.99	31.76	7.45	24.86	40.54	54	-13.46	AV
H	10400	49.90	30.85	7.45	24.69	51.19	74	-22.81	PK
H	10400	40.53	30.85	7.45	24.69	41.82	54	-12.18	AV
H	15600	52.57	31.38	7.45	24.75	53.39	74	-20.61	PK
H	15600	37.84	31.38	7.45	24.75	38.66	54	-15.34	AV
H	20800	49.53	31.76	7.45	24.86	50.08	74	-23.92	PK
H	20800	38.42	31.76	7.45	24.86	38.97	54	-15.03	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	50.31	30.85	7.45	24.69	51.60	74	-22.40	PK
V	10480	37.19	30.85	7.45	24.69	38.48	54	-15.52	AV
V	15720	50.34	31.38	7.45	24.75	51.16	74	-22.84	PK
V	15720	38.86	31.38	7.45	24.75	39.68	54	-14.32	AV
V	20960	50.12	31.76	7.45	24.86	50.67	74	-23.33	PK
V	20960	37.80	31.76	7.45	24.86	38.35	54	-15.65	AV
H	10480	49.53	30.85	7.45	24.69	50.82	74	-23.18	PK
H	10480	40.68	30.85	7.45	24.69	41.97	54	-12.03	AV
H	15720	52.57	31.38	7.45	24.75	53.39	74	-20.61	PK
H	15720	39.48	31.38	7.45	24.75	40.30	54	-13.70	AV
H	20960	48.86	31.76	7.45	24.86	49.41	74	-24.59	PK
H	20960	39.02	31.76	7.45	24.86	39.57	54	-14.43	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:5745MHz									
V	11490	51.24	30.85	7.45	24.69	52.53	74	-21.47	PK
V	11490	36.83	30.85	7.45	24.69	38.12	54	-15.88	AV
V	17235	50.07	31.38	7.45	24.75	50.89	74	-23.11	PK
V	17235	38.39	31.38	7.45	24.75	39.21	54	-14.79	AV
V	22980	49.35	31.76	7.45	24.86	49.90	74	-24.10	PK
V	22980	40.68	31.76	7.45	24.86	41.23	54	-12.77	AV
H	11490	50.62	30.85	7.45	24.69	51.91	74	-22.09	PK
H	11490	40.58	30.85	7.45	24.69	41.87	54	-12.13	AV
H	17235	53.33	31.38	7.45	24.75	54.15	74	-19.85	PK
H	17235	39.00	31.38	7.45	24.75	39.82	54	-14.18	AV
H	22980	49.71	31.76	7.45	24.86	50.26	74	-23.74	PK
H	22980	37.97	31.76	7.45	24.86	38.52	54	-15.48	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	49.45	30.85	7.45	24.69	50.74	74	-23.26	PK
V	11570	38.24	30.85	7.45	24.69	39.53	54	-14.47	AV
V	17355	49.87	31.38	7.45	24.75	50.69	74	-23.31	PK
V	17355	40.73	31.38	7.45	24.75	41.55	54	-12.45	AV
V	23140	51.60	31.76	7.45	24.86	52.15	74	-21.85	PK
V	23140	37.77	31.76	7.45	24.86	38.32	54	-15.68	AV
H	11570	50.49	30.85	7.45	24.69	51.78	74	-22.22	PK
H	11570	39.56	30.85	7.45	24.69	40.85	54	-13.15	AV
H	17355	53.23	31.38	7.45	24.75	54.05	74	-19.95	PK
H	17355	39.43	31.38	7.45	24.75	40.25	54	-13.75	AV
H	23140	48.84	31.76	7.45	24.86	49.39	74	-24.61	PK
H	23140	39.91	31.76	7.45	24.86	40.46	54	-13.54	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	48.88	30.85	7.45	24.69	50.17	74	-23.83	PK
V	11650	37.27	30.85	7.45	24.69	38.56	54	-15.44	AV
V	17475	51.49	31.38	7.45	24.75	52.31	74	-21.69	PK
V	17475	39.37	31.38	7.45	24.75	40.19	54	-13.81	AV
V	23300	50.43	31.76	7.45	24.86	50.98	74	-23.02	PK
V	23300	39.49	31.76	7.45	24.86	40.04	54	-13.96	AV
H	11650	48.90	30.85	7.45	24.69	50.19	74	-23.81	PK
H	11650	39.26	30.85	7.45	24.69	40.55	54	-13.45	AV
H	17475	53.33	31.38	7.45	24.75	54.15	74	-19.85	PK
H	17475	38.61	31.38	7.45	24.75	39.43	54	-14.57	AV
H	23300	49.45	31.76	7.45	24.86	50.00	74	-24.00	PK
H	23300	39.97	31.76	7.45	24.86	40.52	54	-13.48	AV

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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	50.70	30.85	7.45	24.69	51.99	74	-22.01	PK
V	10380	37.83	30.85	7.45	24.69	39.12	54	-14.88	AV
V	15570	51.75	31.38	7.45	24.75	52.57	74	-21.43	PK
V	15570	38.49	31.38	7.45	24.75	39.31	54	-14.69	AV
V	20760	50.74	31.76	7.45	24.86	51.29	74	-22.71	PK
V	20760	39.29	31.76	7.45	24.86	39.84	54	-14.16	AV
H	10380	51.75	30.85	7.45	24.69	53.04	74	-20.96	PK
H	10380	39.74	30.85	7.45	24.69	41.03	54	-12.97	AV
H	15570	53.35	31.38	7.45	24.75	54.17	74	-19.83	PK
H	15570	40.62	31.38	7.45	24.75	41.44	54	-12.56	AV
H	20760	49.03	31.76	7.45	24.86	49.58	74	-24.42	PK
H	20760	38.49	31.76	7.45	24.86	39.04	54	-14.96	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	51.66	30.85	7.45	24.69	52.95	74	-21.05	PK
V	10460	36.54	30.85	7.45	24.69	37.83	54	-16.17	AV
V	15690	50.38	31.38	7.45	24.75	51.20	74	-22.80	PK
V	15690	40.15	31.38	7.45	24.75	40.97	54	-13.03	AV
V	20920	50.20	31.76	7.45	24.86	50.75	74	-23.25	PK
V	20920	38.73	31.76	7.45	24.86	39.28	54	-14.72	AV
H	10460	49.91	30.85	7.45	24.69	51.20	74	-22.80	PK
H	10460	39.88	30.85	7.45	24.69	41.17	54	-12.83	AV
H	15690	51.90	31.38	7.45	24.75	52.72	74	-21.28	PK
H	15690	39.86	31.38	7.45	24.75	40.68	54	-13.32	AV
H	20920	50.99	31.76	7.45	24.86	51.54	74	-22.46	PK
H	20920	38.61	31.76	7.45	24.86	39.16	54	-14.84	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	50.23	30.85	7.45	24.69	51.52	74	-22.48	PK
V	11510	36.93	30.85	7.45	24.69	38.22	54	-15.78	AV
V	17265	51.02	31.38	7.45	24.75	51.84	74	-22.16	PK
V	17265	38.73	31.38	7.45	24.75	39.55	54	-14.45	AV
V	23020	51.59	31.76	7.45	24.86	52.14	74	-21.86	PK
V	23020	40.58	31.76	7.45	24.86	41.13	54	-12.87	AV
H	11510	51.23	30.85	7.45	24.69	52.52	74	-21.48	PK
H	11510	41.47	30.85	7.45	24.69	42.76	54	-11.24	AV
H	17265	52.87	31.38	7.45	24.75	53.69	74	-20.31	PK
H	17265	39.08	31.38	7.45	24.75	39.90	54	-14.10	AV
H	23020	51.29	31.76	7.45	24.86	51.84	74	-22.16	PK
H	23020	38.58	31.76	7.45	24.86	39.13	54	-14.87	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	50.31	30.85	7.45	24.69	51.60	74	-22.40	PK
V	11590	36.58	30.85	7.45	24.69	37.87	54	-16.13	AV
V	17385	49.92	31.38	7.45	24.75	50.74	74	-23.26	PK
V	17385	40.36	31.38	7.45	24.75	41.18	54	-12.82	AV
V	23180	49.08	31.76	7.45	24.86	49.63	74	-24.37	PK
V	23180	39.11	31.76	7.45	24.86	39.66	54	-14.34	AV
H	11590	49.01	30.85	7.45	24.69	50.30	74	-23.70	PK
H	11590	39.18	30.85	7.45	24.69	40.47	54	-13.53	AV
H	17385	53.09	31.38	7.45	24.75	53.91	74	-20.09	PK
H	17385	38.48	31.38	7.45	24.75	39.30	54	-14.70	AV
H	23180	50.55	31.76	7.45	24.86	51.10	74	-22.90	PK
H	23180	38.30	31.76	7.45	24.86	38.85	54	-15.15	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	50.31	30.85	7.45	24.69	51.60	74	-22.40	PK
V	10360	38.35	30.85	7.45	24.69	39.64	54	-14.36	AV
V	15540	51.15	31.38	7.45	24.75	51.97	74	-22.03	PK
V	15540	40.18	31.38	7.45	24.75	41.00	54	-13.00	AV
V	20720	51.52	31.76	7.45	24.86	52.07	74	-21.93	PK
V	20720	38.30	31.76	7.45	24.86	38.85	54	-15.15	AV
H	10360	48.89	30.85	7.45	24.69	50.18	74	-23.82	PK
H	10360	41.40	30.85	7.45	24.69	42.69	54	-11.31	AV
H	15540	52.00	31.38	7.45	24.75	52.82	74	-21.18	PK
H	15540	38.67	31.38	7.45	24.75	39.49	54	-14.51	AV
H	20720	49.72	31.76	7.45	24.86	50.27	74	-23.73	PK
H	20720	40.72	31.76	7.45	24.86	41.27	54	-12.73	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	49.21	30.85	7.45	24.69	50.50	74	-23.50	PK
V	10400	37.56	30.85	7.45	24.69	38.85	54	-15.15	AV
V	15600	51.44	31.38	7.45	24.75	52.26	74	-21.74	PK
V	15600	39.66	31.38	7.45	24.75	40.48	54	-13.52	AV
V	20800	51.74	31.76	7.45	24.86	52.29	74	-21.71	PK
V	20800	38.75	31.76	7.45	24.86	39.30	54	-14.70	AV
H	10400	50.70	30.85	7.45	24.69	51.99	74	-22.01	PK
H	10400	41.22	30.85	7.45	24.69	42.51	54	-11.49	AV
H	15600	52.70	31.38	7.45	24.75	53.52	74	-20.48	PK
H	15600	39.65	31.38	7.45	24.75	40.47	54	-13.53	AV
H	20800	49.66	31.76	7.45	24.86	50.21	74	-23.79	PK
H	20800	39.07	31.76	7.45	24.86	39.62	54	-14.38	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	50.81	30.85	7.45	24.69	52.10	74	-21.90	PK
V	10480	36.59	30.85	7.45	24.69	37.88	54	-16.12	AV
V	15720	50.54	31.38	7.45	24.75	51.36	74	-22.64	PK
V	15720	38.97	31.38	7.45	24.75	39.79	54	-14.21	AV
V	20960	51.63	31.76	7.45	24.86	52.18	74	-21.82	PK
V	20960	39.69	31.76	7.45	24.86	40.24	54	-13.76	AV
H	10480	50.45	30.85	7.45	24.69	51.74	74	-22.26	PK
H	10480	40.10	30.85	7.45	24.69	41.39	54	-12.61	AV
H	15720	51.94	31.38	7.45	24.75	52.76	74	-21.24	PK
H	15720	40.24	31.38	7.45	24.75	41.06	54	-12.94	AV
H	20960	51.48	31.76	7.45	24.86	52.03	74	-21.97	PK
H	20960	39.54	31.76	7.45	24.86	40.09	54	-13.91	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	50.15	30.85	7.45	24.69	51.44	74	-22.56	PK
V	11490	36.15	30.85	7.45	24.69	37.44	54	-16.56	AV
V	17235	51.08	31.38	7.45	24.75	51.90	74	-22.10	PK
V	17235	39.07	31.38	7.45	24.75	39.89	54	-14.11	AV
V	22980	49.24	31.76	7.45	24.86	49.79	74	-24.21	PK
V	22980	40.05	31.76	7.45	24.86	40.60	54	-13.40	AV
H	11490	51.22	30.85	7.45	24.69	52.51	74	-21.49	PK
H	11490	40.82	30.85	7.45	24.69	42.11	54	-11.89	AV
H	17235	53.76	31.38	7.45	24.75	54.58	74	-19.42	PK
H	17235	39.98	31.38	7.45	24.75	40.80	54	-13.20	AV
H	22980	49.41	31.76	7.45	24.86	49.96	74	-24.04	PK
H	22980	40.74	31.76	7.45	24.86	41.29	54	-12.71	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	50.61	30.85	7.45	24.69	51.90	74	-22.10	PK
V	11570	37.29	30.85	7.45	24.69	38.58	54	-15.42	AV
V	17355	51.67	31.38	7.45	24.75	52.49	74	-21.51	PK
V	17355	39.86	31.38	7.45	24.75	40.68	54	-13.32	AV
V	23140	50.49	31.76	7.45	24.86	51.04	74	-22.96	PK
V	23140	38.14	31.76	7.45	24.86	38.69	54	-15.31	AV
H	11570	51.18	30.85	7.45	24.69	52.47	74	-21.53	PK
H	11570	40.48	30.85	7.45	24.69	41.77	54	-12.23	AV
H	17355	52.90	31.38	7.45	24.75	53.72	74	-20.28	PK
H	17355	39.10	31.38	7.45	24.75	39.92	54	-14.08	AV
H	23140	49.65	31.76	7.45	24.86	50.20	74	-23.80	PK
H	23140	39.91	31.76	7.45	24.86	40.46	54	-13.54	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	49.31	30.85	7.45	24.69	50.60	74	-23.40	PK
V	11590	36.99	30.85	7.45	24.69	38.28	54	-15.72	AV
V	17385	50.27	31.38	7.45	24.75	51.09	74	-22.91	PK
V	17385	38.12	31.38	7.45	24.75	38.94	54	-15.06	AV
V	23180	50.64	31.76	7.45	24.86	51.19	74	-22.81	PK
V	23180	39.98	31.76	7.45	24.86	40.53	54	-13.47	AV
H	11590	51.16	30.85	7.45	24.69	52.45	74	-21.55	PK
H	11590	40.01	30.85	7.45	24.69	41.30	54	-12.70	AV
H	17385	52.10	31.38	7.45	24.75	52.92	74	-21.08	PK
H	17385	37.96	31.38	7.45	24.75	38.78	54	-15.22	AV
H	23180	51.24	31.76	7.45	24.86	51.79	74	-22.21	PK
H	23180	37.92	31.76	7.45	24.86	38.47	54	-15.53	AV

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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	51.50	30.85	7.45	24.69	52.79	74	-21.21	PK
V	10380	38.35	30.85	7.45	24.69	39.64	54	-14.36	AV
V	15570	51.34	31.38	7.45	24.75	52.16	74	-21.84	PK
V	15570	39.40	31.38	7.45	24.75	40.22	54	-13.78	AV
V	20760	51.16	31.76	7.45	24.86	51.71	74	-22.29	PK
V	20760	39.27	31.76	7.45	24.86	39.82	54	-14.18	AV
H	10380	48.91	30.85	7.45	24.69	50.20	74	-23.80	PK
H	10380	39.76	30.85	7.45	24.69	41.05	54	-12.95	AV
H	15570	52.86	31.38	7.45	24.75	53.68	74	-20.32	PK
H	15570	38.96	31.38	7.45	24.75	39.78	54	-14.22	AV
H	20760	49.36	31.76	7.45	24.86	49.91	74	-24.09	PK
H	20760	40.10	31.76	7.45	24.86	40.65	54	-13.35	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	49.33	30.85	7.45	24.69	50.62	74	-23.38	PK
V	10460	35.94	30.85	7.45	24.69	37.23	54	-16.77	AV
V	15690	50.81	31.38	7.45	24.75	51.63	74	-22.37	PK
V	15690	38.89	31.38	7.45	24.75	39.71	54	-14.29	AV
V	20920	49.73	31.76	7.45	24.86	50.28	74	-23.72	PK
V	20920	40.10	31.76	7.45	24.86	40.65	54	-13.35	AV
H	10460	51.16	30.85	7.45	24.69	52.45	74	-21.55	PK
H	10460	41.37	30.85	7.45	24.69	42.66	54	-11.34	AV
H	15690	53.04	31.38	7.45	24.75	53.86	74	-20.14	PK
H	15690	40.10	31.38	7.45	24.75	40.92	54	-13.08	AV
H	20920	49.35	31.76	7.45	24.86	49.90	74	-24.10	PK
H	20920	39.54	31.76	7.45	24.86	40.09	54	-13.91	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	50.30	30.85	7.45	24.69	51.59	74	-22.41	PK
V	11510	38.06	30.85	7.45	24.69	39.35	54	-14.65	AV
V	17265	51.10	31.38	7.45	24.75	51.92	74	-22.08	PK
V	17265	40.08	31.38	7.45	24.75	40.90	54	-13.10	AV
V	23020	49.96	31.76	7.45	24.86	50.51	74	-23.49	PK
V	23020	38.03	31.76	7.45	24.86	38.58	54	-15.42	AV
H	11510	48.96	30.85	7.45	24.69	50.25	74	-23.75	PK
H	11510	40.16	30.85	7.45	24.69	41.45	54	-12.55	AV
H	17265	53.16	31.38	7.45	24.75	53.98	74	-20.02	PK
H	17265	40.30	31.38	7.45	24.75	41.12	54	-12.88	AV
H	23020	50.35	31.76	7.45	24.86	50.90	74	-23.10	PK
H	23020	40.08	31.76	7.45	24.86	40.63	54	-13.37	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	50.86	30.85	7.45	24.69	52.15	74	-21.85	PK
V	11590	37.09	30.85	7.45	24.69	38.38	54	-15.62	AV
V	17385	51.15	31.38	7.45	24.75	51.97	74	-22.03	PK
V	17385	37.83	31.38	7.45	24.75	38.65	54	-15.35	AV
V	23180	49.72	31.76	7.45	24.86	50.27	74	-23.73	PK
V	23180	39.97	31.76	7.45	24.86	40.52	54	-13.48	AV
H	11590	50.93	30.85	7.45	24.69	52.22	74	-21.78	PK
H	11590	40.89	30.85	7.45	24.69	42.18	54	-11.82	AV
H	17385	52.21	31.38	7.45	24.75	53.03	74	-20.97	PK
H	17385	38.16	31.38	7.45	24.75	38.98	54	-15.02	AV
H	23180	51.66	31.76	7.45	24.86	52.21	74	-21.79	PK
H	23180	38.35	31.76	7.45	24.86	38.90	54	-15.10	AV

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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)	
5210MHz									
V	10420	49.01	30.85	7.45	24.69	50.30	74	-23.70	PK
V	10420	36.63	30.85	7.45	24.69	37.92	54	-16.08	AV
V	15630	51.46	31.38	7.45	24.75	52.28	74	-21.72	PK
V	15630	39.91	31.38	7.45	24.75	40.73	54	-13.27	AV
V	20840	49.50	31.76	7.45	24.86	50.05	74	-23.95	PK
V	20840	40.51	31.76	7.45	24.86	41.06	54	-12.94	AV
H	10420	49.24	30.85	7.45	24.69	50.53	74	-23.47	PK
H	10420	40.47	30.85	7.45	24.69	41.76	54	-12.24	AV
H	15630	53.14	31.38	7.45	24.75	53.96	74	-20.04	PK
H	15630	38.82	31.38	7.45	24.75	39.64	54	-14.36	AV
H	20840	49.70	31.76	7.45	24.86	50.25	74	-23.75	PK
H	20840	38.91	31.76	7.45	24.86	39.46	54	-14.54	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	51.09	30.85	7.45	24.69	52.38	74	-21.62	PK
V	11550	36.28	30.85	7.45	24.69	37.57	54	-16.43	AV
V	17325	50.44	31.38	7.45	24.75	51.26	74	-22.74	PK
V	17325	38.78	31.38	7.45	24.75	39.60	54	-14.40	AV
V	23100	51.32	31.76	7.45	24.86	51.87	74	-22.13	PK
V	23100	40.75	31.76	7.45	24.86	41.30	54	-12.70	AV
H	11550	50.93	30.85	7.45	24.69	52.22	74	-21.78	PK
H	11550	41.68	30.85	7.45	24.69	42.97	54	-11.03	AV
H	17325	52.63	31.38	7.45	24.75	53.45	74	-20.55	PK
H	17325	39.57	31.38	7.45	24.75	40.39	54	-13.61	AV
H	23100	49.08	31.76	7.45	24.86	49.63	74	-24.37	PK
H	23100	37.89	31.76	7.45	24.86	38.44	54	-15.56	AV

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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	50.85	30.85	7.45	24.69	52.14	74	-21.86	PK
V	10360	36.55	30.85	7.45	24.69	37.84	54	-16.16	AV
V	15540	49.90	31.38	7.45	24.75	50.72	74	-23.28	PK
V	15540	38.39	31.38	7.45	24.75	39.21	54	-14.79	AV
V	20720	51.41	31.76	7.45	24.86	51.96	74	-22.04	PK
V	20720	40.04	31.76	7.45	24.86	40.59	54	-13.41	AV
H	10360	48.78	30.85	7.45	24.69	50.07	74	-23.93	PK
H	10360	40.61	30.85	7.45	24.69	41.90	54	-12.10	AV
H	15540	52.78	31.38	7.45	24.75	53.60	74	-20.40	PK
H	15540	40.70	31.38	7.45	24.75	41.52	54	-12.48	AV
H	20720	50.17	31.76	7.45	24.86	50.72	74	-23.28	PK
H	20720	39.12	31.76	7.45	24.86	39.67	54	-14.33	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	50.05	30.85	7.45	24.69	51.34	74	-22.66	PK
V	10400	36.98	30.85	7.45	24.69	38.27	54	-15.73	AV
V	15600	50.99	31.38	7.45	24.75	51.81	74	-22.19	PK
V	15600	39.34	31.38	7.45	24.75	40.16	54	-13.84	AV
V	20800	49.09	31.76	7.45	24.86	49.64	74	-24.36	PK
V	20800	37.99	31.76	7.45	24.86	38.54	54	-15.46	AV
H	10400	51.29	30.85	7.45	24.69	52.58	74	-21.42	PK
H	10400	41.09	30.85	7.45	24.69	42.38	54	-11.62	AV
H	15600	53.74	31.38	7.45	24.75	54.56	74	-19.44	PK
H	15600	39.40	31.38	7.45	24.75	40.22	54	-13.78	AV
H	20800	49.29	31.76	7.45	24.86	49.84	74	-24.16	PK
H	20800	38.92	31.76	7.45	24.86	39.47	54	-14.53	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	49.64	30.85	7.45	24.69	50.93	74	-23.07	PK
V	10480	35.84	30.85	7.45	24.69	37.13	54	-16.87	AV
V	15720	51.64	31.38	7.45	24.75	52.46	74	-21.54	PK
V	15720	38.57	31.38	7.45	24.75	39.39	54	-14.61	AV
V	20960	51.74	31.76	7.45	24.86	52.29	74	-21.71	PK
V	20960	40.20	31.76	7.45	24.86	40.75	54	-13.25	AV
H	10480	50.84	30.85	7.45	24.69	52.13	74	-21.87	PK
H	10480	41.59	30.85	7.45	24.69	42.88	54	-11.12	AV
H	15720	52.87	31.38	7.45	24.75	53.69	74	-20.31	PK
H	15720	39.73	31.38	7.45	24.75	40.55	54	-13.45	AV
H	20960	50.10	31.76	7.45	24.86	50.65	74	-23.35	PK
H	20960	38.84	31.76	7.45	24.86	39.39	54	-14.61	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	51.22	30.85	7.45	24.69	52.51	74	-21.49	PK
V	11490	38.11	30.85	7.45	24.69	39.40	54	-14.60	AV
V	17235	51.22	31.38	7.45	24.75	52.04	74	-21.96	PK
V	17235	39.09	31.38	7.45	24.75	39.91	54	-14.09	AV
V	22980	50.32	31.76	7.45	24.86	50.87	74	-23.13	PK
V	22980	40.70	31.76	7.45	24.86	41.25	54	-12.75	AV
H	11490	51.67	30.85	7.45	24.69	52.96	74	-21.04	PK
H	11490	38.92	30.85	7.45	24.69	40.21	54	-13.79	AV
H	17235	52.38	31.38	7.45	24.75	53.20	74	-20.80	PK
H	17235	39.55	31.38	7.45	24.75	40.37	54	-13.63	AV
H	22980	50.79	31.76	7.45	24.86	51.34	74	-22.66	PK
H	22980	40.36	31.76	7.45	24.86	40.91	54	-13.09	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	51.61	30.85	7.45	24.69	52.90	74	-21.10	PK
V	11570	35.79	30.85	7.45	24.69	37.08	54	-16.92	AV
V	17355	50.59	31.38	7.45	24.75	51.41	74	-22.59	PK
V	17355	40.25	31.38	7.45	24.75	41.07	54	-12.93	AV
V	23140	50.48	31.76	7.45	24.86	51.03	74	-22.97	PK
V	23140	38.35	31.76	7.45	24.86	38.90	54	-15.10	AV
H	11570	50.68	30.85	7.45	24.69	51.97	74	-22.03	PK
H	11570	40.26	30.85	7.45	24.69	41.55	54	-12.45	AV
H	17355	52.88	31.38	7.45	24.75	53.70	74	-20.30	PK
H	17355	40.03	31.38	7.45	24.75	40.85	54	-13.15	AV
H	23140	49.51	31.76	7.45	24.86	50.06	74	-23.94	PK
H	23140	39.15	31.76	7.45	24.86	39.70	54	-14.30	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	49.22	30.85	7.45	24.69	50.51	74	-23.49	PK
V	11650	36.49	30.85	7.45	24.69	37.78	54	-16.22	AV
V	17475	51.66	31.38	7.45	24.75	52.48	74	-21.52	PK
V	17475	40.16	31.38	7.45	24.75	40.98	54	-13.02	AV
V	23300	49.30	31.76	7.45	24.86	49.85	74	-24.15	PK
V	23300	38.44	31.76	7.45	24.86	38.99	54	-15.01	AV
H	11650	51.68	30.85	7.45	24.69	52.97	74	-21.03	PK
H	11650	39.97	30.85	7.45	24.69	41.26	54	-12.74	AV
H	17475	52.82	31.38	7.45	24.75	53.64	74	-20.36	PK
H	17475	40.11	31.38	7.45	24.75	40.93	54	-13.07	AV
H	23300	50.78	31.76	7.45	24.86	51.33	74	-22.67	PK
H	23300	38.46	31.76	7.45	24.86	39.01	54	-14.99	AV

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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	49.05	30.85	7.45	24.69	50.34	74	-23.66	PK
V	10360	38.11	30.85	7.45	24.69	39.40	54	-14.60	AV
V	15540	50.03	31.38	7.45	24.75	50.85	74	-23.15	PK
V	15540	39.81	31.38	7.45	24.75	40.63	54	-13.37	AV
V	20720	50.58	31.76	7.45	24.86	51.13	74	-22.87	PK
V	20720	39.98	31.76	7.45	24.86	40.53	54	-13.47	AV
H	10360	51.16	30.85	7.45	24.69	52.45	74	-21.55	PK
H	10360	41.67	30.85	7.45	24.69	42.96	54	-11.04	AV
H	15540	53.63	31.38	7.45	24.75	54.45	74	-19.55	PK
H	15540	39.59	31.38	7.45	24.75	40.41	54	-13.59	AV
H	20720	50.85	31.76	7.45	24.86	51.40	74	-22.60	PK
H	20720	40.13	31.76	7.45	24.86	40.68	54	-13.32	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	50.99	30.85	7.45	24.69	52.28	74	-21.72	PK
V	10400	38.71	30.85	7.45	24.69	40.00	54	-14.00	AV
V	15600	50.06	31.38	7.45	24.75	50.88	74	-23.12	PK
V	15600	37.78	31.38	7.45	24.75	38.60	54	-15.40	AV
V	20800	50.94	31.76	7.45	24.86	51.49	74	-22.51	PK
V	20800	40.33	31.76	7.45	24.86	40.88	54	-13.12	AV
H	10400	50.52	30.85	7.45	24.69	51.81	74	-22.19	PK
H	10400	39.90	30.85	7.45	24.69	41.19	54	-12.81	AV
H	15600	52.09	31.38	7.45	24.75	52.91	74	-21.09	PK
H	15600	40.32	31.38	7.45	24.75	41.14	54	-12.86	AV
H	20800	51.66	31.76	7.45	24.86	52.21	74	-21.79	PK
H	20800	38.60	31.76	7.45	24.86	39.15	54	-14.85	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	50.01	30.85	7.45	24.69	51.30	74	-22.70	PK
V	10480	35.78	30.85	7.45	24.69	37.07	54	-16.93	AV
V	15720	50.55	31.38	7.45	24.75	51.37	74	-22.63	PK
V	15720	38.39	31.38	7.45	24.75	39.21	54	-14.79	AV
V	20960	49.44	31.76	7.45	24.86	49.99	74	-24.01	PK
V	20960	38.49	31.76	7.45	24.86	39.04	54	-14.96	AV
H	10480	51.02	30.85	7.45	24.69	52.31	74	-21.69	PK
H	10480	39.16	30.85	7.45	24.69	40.45	54	-13.55	AV
H	15720	53.37	31.38	7.45	24.75	54.19	74	-19.81	PK
H	15720	38.47	31.38	7.45	24.75	39.29	54	-14.71	AV
H	20960	49.65	31.76	7.45	24.86	50.20	74	-23.80	PK
H	20960	40.40	31.76	7.45	24.86	40.95	54	-13.05	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	49.33	30.85	7.45	24.69	50.62	74	-23.38	PK
V	11490	36.13	30.85	7.45	24.69	37.42	54	-16.58	AV
V	17235	51.53	31.38	7.45	24.75	52.35	74	-21.65	PK
V	17235	40.42	31.38	7.45	24.75	41.24	54	-12.76	AV
V	22980	50.57	31.76	7.45	24.86	51.12	74	-22.88	PK
V	22980	40.10	31.76	7.45	24.86	40.65	54	-13.35	AV
H	11490	50.89	30.85	7.45	24.69	52.18	74	-21.82	PK
H	11490	39.48	30.85	7.45	24.69	40.77	54	-13.23	AV
H	17235	53.43	31.38	7.45	24.75	54.25	74	-19.75	PK
H	17235	40.38	31.38	7.45	24.75	41.20	54	-12.80	AV
H	22980	50.65	31.76	7.45	24.86	51.20	74	-22.80	PK
H	22980	38.06	31.76	7.45	24.86	38.61	54	-15.39	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	48.77	30.85	7.45	24.69	50.06	74	-23.94	PK
V	11570	37.27	30.85	7.45	24.69	38.56	54	-15.44	AV
V	17355	50.73	31.38	7.45	24.75	51.55	74	-22.45	PK
V	17355	38.92	31.38	7.45	24.75	39.74	54	-14.26	AV
V	23140	50.05	31.76	7.45	24.86	50.60	74	-23.40	PK
V	23140	38.36	31.76	7.45	24.86	38.91	54	-15.09	AV
H	11570	50.19	30.85	7.45	24.69	51.48	74	-22.52	PK
H	11570	39.51	30.85	7.45	24.69	40.80	54	-13.20	AV
H	17355	52.17	31.38	7.45	24.75	52.99	74	-21.01	PK
H	17355	39.40	31.38	7.45	24.75	40.22	54	-13.78	AV
H	23140	49.00	31.76	7.45	24.86	49.55	74	-24.45	PK
H	23140	38.82	31.76	7.45	24.86	39.37	54	-14.63	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	50.17	30.85	7.45	24.69	51.46	74	-22.54	PK
V	11650	36.35	30.85	7.45	24.69	37.64	54	-16.36	AV
V	17475	51.21	31.38	7.45	24.75	52.03	74	-21.97	PK
V	17475	39.43	31.38	7.45	24.75	40.25	54	-13.75	AV
V	23300	50.04	31.76	7.45	24.86	50.59	74	-23.41	PK
V	23300	37.81	31.76	7.45	24.86	38.36	54	-15.64	AV
H	11650	49.66	30.85	7.45	24.69	50.95	74	-23.05	PK
H	11650	41.44	30.85	7.45	24.69	42.73	54	-11.27	AV
H	17475	51.81	31.38	7.45	24.75	52.63	74	-21.37	PK
H	17475	38.18	31.38	7.45	24.75	39.00	54	-15.00	AV
H	23300	49.08	31.76	7.45	24.86	49.63	74	-24.37	PK
H	23300	40.25	31.76	7.45	24.86	40.80	54	-13.20	AV

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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	51.63	30.85	7.45	24.69	52.92	74	-21.08	PK
V	10380	36.67	30.85	7.45	24.69	37.96	54	-16.04	AV
V	15570	51.59	31.38	7.45	24.75	52.41	74	-21.59	PK
V	15570	40.51	31.38	7.45	24.75	41.33	54	-12.67	AV
V	20760	49.72	31.76	7.45	24.86	50.27	74	-23.73	PK
V	20760	38.34	31.76	7.45	24.86	38.89	54	-15.11	AV
H	10380	51.36	30.85	7.45	24.69	52.65	74	-21.35	PK
H	10380	39.39	30.85	7.45	24.69	40.68	54	-13.32	AV
H	15570	51.97	31.38	7.45	24.75	52.79	74	-21.21	PK
H	15570	39.10	31.38	7.45	24.75	39.92	54	-14.08	AV
H	20760	49.36	31.76	7.45	24.86	49.91	74	-24.09	PK
H	20760	38.23	31.76	7.45	24.86	38.78	54	-15.22	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	50.94	30.85	7.45	24.69	52.23	74	-21.77	PK
V	10460	36.06	30.85	7.45	24.69	37.35	54	-16.65	AV
V	15690	51.49	31.38	7.45	24.75	52.31	74	-21.69	PK
V	15690	39.52	31.38	7.45	24.75	40.34	54	-13.66	AV
V	20920	51.22	31.76	7.45	24.86	51.77	74	-22.23	PK
V	20920	39.37	31.76	7.45	24.86	39.92	54	-14.08	AV
H	10460	50.00	30.85	7.45	24.69	51.29	74	-22.71	PK
H	10460	39.77	30.85	7.45	24.69	41.06	54	-12.94	AV
H	15690	52.86	31.38	7.45	24.75	53.68	74	-20.32	PK
H	15690	39.44	31.38	7.45	24.75	40.26	54	-13.74	AV
H	20920	50.97	31.76	7.45	24.86	51.52	74	-22.48	PK
H	20920	38.99	31.76	7.45	24.86	39.54	54	-14.46	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:5755MHz									
V	11510	50.83	30.85	7.45	24.69	52.12	74	-21.88	PK
V	11510	37.45	30.85	7.45	24.69	38.74	54	-15.26	AV
V	17265	50.32	31.38	7.45	24.75	51.14	74	-22.86	PK
V	17265	40.24	31.38	7.45	24.75	41.06	54	-12.94	AV
V	23020	50.72	31.76	7.45	24.86	51.27	74	-22.73	PK
V	23020	38.71	31.76	7.45	24.86	39.26	54	-14.74	AV
H	11510	50.93	30.85	7.45	24.69	52.22	74	-21.78	PK
H	11510	38.94	30.85	7.45	24.69	40.23	54	-13.77	AV
H	17265	53.65	31.38	7.45	24.75	54.47	74	-19.53	PK
H	17265	38.83	31.38	7.45	24.75	39.65	54	-14.35	AV
H	23020	49.33	31.76	7.45	24.86	49.88	74	-24.12	PK
H	23020	40.18	31.76	7.45	24.86	40.73	54	-13.27	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	48.96	30.85	7.45	24.69	50.25	74	-23.75	PK
V	11590	37.16	30.85	7.45	24.69	38.45	54	-15.55	AV
V	17385	51.45	31.38	7.45	24.75	52.27	74	-21.73	PK
V	17385	39.73	31.38	7.45	24.75	40.55	54	-13.45	AV
V	23180	51.61	31.76	7.45	24.86	52.16	74	-21.84	PK
V	23180	38.10	31.76	7.45	24.86	38.65	54	-15.35	AV
H	11590	49.82	30.85	7.45	24.69	51.11	74	-22.89	PK
H	11590	40.83	30.85	7.45	24.69	42.12	54	-11.88	AV
H	17385	53.73	31.38	7.45	24.75	54.55	74	-19.45	PK
H	17385	38.05	31.38	7.45	24.75	38.87	54	-15.13	AV
H	23180	51.53	31.76	7.45	24.86	52.08	74	-21.92	PK
H	23180	39.36	31.76	7.45	24.86	39.91	54	-14.09	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.

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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	50.51	30.85	7.45	24.69	51.80	74	-22.20	PK
V	10360	36.31	30.85	7.45	24.69	37.60	54	-16.40	AV
V	15540	50.39	31.38	7.45	24.75	51.21	74	-22.79	PK
V	15540	38.11	31.38	7.45	24.75	38.93	54	-15.07	AV
V	20720	50.72	31.76	7.45	24.86	51.27	74	-22.73	PK
V	20720	38.98	31.76	7.45	24.86	39.53	54	-14.47	AV
H	10360	49.80	30.85	7.45	24.69	51.09	74	-22.91	PK
H	10360	40.96	30.85	7.45	24.69	42.25	54	-11.75	AV
H	15540	52.96	31.38	7.45	24.75	53.78	74	-20.22	PK
H	15540	39.72	31.38	7.45	24.75	40.54	54	-13.46	AV
H	20720	50.45	31.76	7.45	24.86	51.00	74	-23.00	PK
H	20720	38.45	31.76	7.45	24.86	39.00	54	-15.00	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	50.95	30.85	7.45	24.69	52.24	74	-21.76	PK
V	10400	37.97	30.85	7.45	24.69	39.26	54	-14.74	AV
V	15600	50.88	31.38	7.45	24.75	51.70	74	-22.30	PK
V	15600	39.78	31.38	7.45	24.75	40.60	54	-13.40	AV
V	20800	50.48	31.76	7.45	24.86	51.03	74	-22.97	PK
V	20800	37.84	31.76	7.45	24.86	38.39	54	-15.61	AV
H	10400	50.31	30.85	7.45	24.69	51.60	74	-22.40	PK
H	10400	40.60	30.85	7.45	24.69	41.89	54	-12.11	AV
H	15600	52.59	31.38	7.45	24.75	53.41	74	-20.59	PK
H	15600	40.44	31.38	7.45	24.75	41.26	54	-12.74	AV
H	20800	48.76	31.76	7.45	24.86	49.31	74	-24.69	PK
H	20800	39.39	31.76	7.45	24.86	39.94	54	-14.06	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	50.07	30.85	7.45	24.69	51.36	74	-22.64	PK
V	10480	38.32	30.85	7.45	24.69	39.61	54	-14.39	AV
V	15720	51.21	31.38	7.45	24.75	52.03	74	-21.97	PK
V	15720	39.04	31.38	7.45	24.75	39.86	54	-14.14	AV
V	20960	51.66	31.76	7.45	24.86	52.21	74	-21.79	PK
V	20960	39.91	31.76	7.45	24.86	40.46	54	-13.54	AV
H	10480	51.14	30.85	7.45	24.69	52.43	74	-21.57	PK
H	10480	39.35	30.85	7.45	24.69	40.64	54	-13.36	AV
H	15720	51.99	31.38	7.45	24.75	52.81	74	-21.19	PK
H	15720	39.29	31.38	7.45	24.75	40.11	54	-13.89	AV
H	20960	49.73	31.76	7.45	24.86	50.28	74	-23.72	PK
H	20960	38.98	31.76	7.45	24.86	39.53	54	-14.47	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	50.18	30.85	7.45	24.69	51.47	74	-22.53	PK
V	11490	37.03	30.85	7.45	24.69	38.32	54	-15.68	AV
V	17235	51.34	31.38	7.45	24.75	52.16	74	-21.84	PK
V	17235	40.28	31.38	7.45	24.75	41.10	54	-12.90	AV
V	22980	49.70	31.76	7.45	24.86	50.25	74	-23.75	PK
V	22980	38.69	31.76	7.45	24.86	39.24	54	-14.76	AV
H	11490	51.52	30.85	7.45	24.69	52.81	74	-21.19	PK
H	11490	39.04	30.85	7.45	24.69	40.33	54	-13.67	AV
H	17235	52.96	31.38	7.45	24.75	53.78	74	-20.22	PK
H	17235	39.95	31.38	7.45	24.75	40.77	54	-13.23	AV
H	22980	49.78	31.76	7.45	24.86	50.33	74	-23.67	PK
H	22980	39.69	31.76	7.45	24.86	40.24	54	-13.76	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:5785MHz									
V	11570	51.21	30.85	7.45	24.69	52.50	74	-21.50	PK
V	11570	36.35	30.85	7.45	24.69	37.64	54	-16.36	AV
V	17355	50.72	31.38	7.45	24.75	51.54	74	-22.46	PK
V	17355	38.36	31.38	7.45	24.75	39.18	54	-14.82	AV
V	23140	51.68	31.76	7.45	24.86	52.23	74	-21.77	PK
V	23140	39.39	31.76	7.45	24.86	39.94	54	-14.06	AV
H	11570	50.04	30.85	7.45	24.69	51.33	74	-22.67	PK
H	11570	41.17	30.85	7.45	24.69	42.46	54	-11.54	AV
H	17355	51.89	31.38	7.45	24.75	52.71	74	-21.29	PK
H	17355	40.32	31.38	7.45	24.75	41.14	54	-12.86	AV
H	23140	51.22	31.76	7.45	24.86	51.77	74	-22.23	PK
H	23140	39.83	31.76	7.45	24.86	40.38	54	-13.62	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	48.91	30.85	7.45	24.69	50.20	74	-23.80	PK
V	11590	38.68	30.85	7.45	24.69	39.97	54	-14.03	AV
V	17385	51.23	31.38	7.45	24.75	52.05	74	-21.95	PK
V	17385	38.63	31.38	7.45	24.75	39.45	54	-14.55	AV
V	23180	49.50	31.76	7.45	24.86	50.05	74	-23.95	PK
V	23180	37.92	31.76	7.45	24.86	38.47	54	-15.53	AV
H	11590	50.02	30.85	7.45	24.69	51.31	74	-22.69	PK
H	11590	39.54	30.85	7.45	24.69	40.83	54	-13.17	AV
H	17385	52.78	31.38	7.45	24.75	53.60	74	-20.40	PK
H	17385	38.76	31.38	7.45	24.75	39.58	54	-14.42	AV
H	23180	50.61	31.76	7.45	24.86	51.16	74	-22.84	PK
H	23180	39.05	31.76	7.45	24.86	39.60	54	-14.40	AV

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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	49.96	30.85	7.45	24.69	51.25	74	-22.75	PK
V	10380	35.81	30.85	7.45	24.69	37.10	54	-16.90	AV
V	15570	49.85	31.38	7.45	24.75	50.67	74	-23.33	PK
V	15570	37.96	31.38	7.45	24.75	38.78	54	-15.22	AV
V	20760	49.65	31.76	7.45	24.86	50.20	74	-23.80	PK
V	20760	38.55	31.76	7.45	24.86	39.10	54	-14.90	AV
H	10380	49.59	30.85	7.45	24.69	50.88	74	-23.12	PK
H	10380	39.83	30.85	7.45	24.69	41.12	54	-12.88	AV
H	15570	53.39	31.38	7.45	24.75	54.21	74	-19.79	PK
H	15570	38.61	31.38	7.45	24.75	39.43	54	-14.57	AV
H	20760	51.64	31.76	7.45	24.86	52.19	74	-21.81	PK
H	20760	39.79	31.76	7.45	24.86	40.34	54	-13.66	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	50.13	30.85	7.45	24.69	51.42	74	-22.58	PK
V	10460	35.91	30.85	7.45	24.69	37.20	54	-16.80	AV
V	15690	51.32	31.38	7.45	24.75	52.14	74	-21.86	PK
V	15690	38.62	31.38	7.45	24.75	39.44	54	-14.56	AV
V	20920	48.80	31.76	7.45	24.86	49.35	74	-24.65	PK
V	20920	39.99	31.76	7.45	24.86	40.54	54	-13.46	AV
H	10460	48.80	30.85	7.45	24.69	50.09	74	-23.91	PK
H	10460	40.10	30.85	7.45	24.69	41.39	54	-12.61	AV
H	15690	53.26	31.38	7.45	24.75	54.08	74	-19.92	PK
H	15690	40.70	31.38	7.45	24.75	41.52	54	-12.48	AV
H	20920	51.46	31.76	7.45	24.86	52.01	74	-21.99	PK
H	20920	39.01	31.76	7.45	24.86	39.56	54	-14.44	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:5755MHz									
V	11510	50.93	30.85	7.45	24.69	52.22	74	-21.78	PK
V	11510	36.29	30.85	7.45	24.69	37.58	54	-16.42	AV
V	17265	50.38	31.38	7.45	24.75	51.20	74	-22.80	PK
V	17265	40.19	31.38	7.45	24.75	41.01	54	-12.99	AV
V	23020	48.84	31.76	7.45	24.86	49.39	74	-24.61	PK
V	23020	39.59	31.76	7.45	24.86	40.14	54	-13.86	AV
H	11510	50.86	30.85	7.45	24.69	52.15	74	-21.85	PK
H	11510	40.05	30.85	7.45	24.69	41.34	54	-12.66	AV
H	17265	52.40	31.38	7.45	24.75	53.22	74	-20.78	PK
H	17265	38.23	31.38	7.45	24.75	39.05	54	-14.95	AV
H	23020	50.22	31.76	7.45	24.86	50.77	74	-23.23	PK
H	23020	37.89	31.76	7.45	24.86	38.44	54	-15.56	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	50.56	30.85	7.45	24.69	51.85	74	-22.15	PK
V	11590	35.87	30.85	7.45	24.69	37.16	54	-16.84	AV
V	17385	50.25	31.38	7.45	24.75	51.07	74	-22.93	PK
V	17385	38.03	31.38	7.45	24.75	38.85	54	-15.15	AV
V	23180	49.66	31.76	7.45	24.86	50.21	74	-23.79	PK
V	23180	38.42	31.76	7.45	24.86	38.97	54	-15.03	AV
H	11590	49.34	30.85	7.45	24.69	50.63	74	-23.37	PK
H	11590	40.63	30.85	7.45	24.69	41.92	54	-12.08	AV
H	17385	52.08	31.38	7.45	24.75	52.90	74	-21.10	PK
H	17385	39.20	31.38	7.45	24.75	40.02	54	-13.98	AV
H	23180	51.35	31.76	7.45	24.86	51.90	74	-22.10	PK
H	23180	39.22	31.76	7.45	24.86	39.77	54	-14.23	AV

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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)	
5210MHz									
V	10420	50.71	30.85	7.45	24.69	52.00	74	-22.00	PK
V	10420	37.72	30.85	7.45	24.69	39.01	54	-14.99	AV
V	15630	51.14	31.38	7.45	24.75	51.96	74	-22.04	PK
V	15630	39.41	31.38	7.45	24.75	40.23	54	-13.77	AV
V	20840	51.66	31.76	7.45	24.86	52.21	74	-21.79	PK
V	20840	38.35	31.76	7.45	24.86	38.90	54	-15.10	AV
H	10420	51.50	30.85	7.45	24.69	52.79	74	-21.21	PK
H	10420	39.94	30.85	7.45	24.69	41.23	54	-12.77	AV
H	15630	52.76	31.38	7.45	24.75	53.58	74	-20.42	PK
H	15630	40.06	31.38	7.45	24.75	40.88	54	-13.12	AV
H	20840	50.88	31.76	7.45	24.86	51.43	74	-22.57	PK
H	20840	38.28	31.76	7.45	24.86	38.83	54	-15.17	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:5775MHz									
V	11550	48.88	30.85	7.45	24.69	50.17	74	-23.83	PK
V	11550	38.22	30.85	7.45	24.69	39.51	54	-14.49	AV
V	17325	49.91	31.38	7.45	24.75	50.73	74	-23.27	PK
V	17325	39.88	31.38	7.45	24.75	40.70	54	-13.30	AV
V	23100	51.50	31.76	7.45	24.86	52.05	74	-21.95	PK
V	23100	40.28	31.76	7.45	24.86	40.83	54	-13.17	AV
H	11550	51.60	30.85	7.45	24.69	52.89	74	-21.11	PK
H	11550	41.69	30.85	7.45	24.69	42.98	54	-11.02	AV
H	17325	52.90	31.38	7.45	24.75	53.72	74	-20.28	PK
H	17325	38.41	31.38	7.45	24.75	39.23	54	-14.77	AV
H	23100	50.09	31.76	7.45	24.86	50.64	74	-23.36	PK
H	23100	40.15	31.76	7.45	24.86	40.70	54	-13.30	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.

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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	51.09	30.85	7.45	24.69	52.38	74	-21.62	PK
V	10360	36.08	30.85	7.45	24.69	37.37	54	-16.63	AV
V	15540	51.17	31.38	7.45	24.75	51.99	74	-22.01	PK
V	15540	38.24	31.38	7.45	24.75	39.06	54	-14.94	AV
V	20720	50.20	31.76	7.45	24.86	50.75	74	-23.25	PK
V	20720	39.46	31.76	7.45	24.86	40.01	54	-13.99	AV
H	10360	50.68	30.85	7.45	24.69	51.97	74	-22.03	PK
H	10360	39.55	30.85	7.45	24.69	40.84	54	-13.16	AV
H	15540	53.63	31.38	7.45	24.75	54.45	74	-19.55	PK
H	15540	39.72	31.38	7.45	24.75	40.54	54	-13.46	AV
H	20720	49.35	31.76	7.45	24.86	49.90	74	-24.10	PK
H	20720	40.22	31.76	7.45	24.86	40.77	54	-13.23	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	51.30	30.85	7.45	24.69	52.59	74	-21.41	PK
V	10400	38.33	30.85	7.45	24.69	39.62	54	-14.38	AV
V	15600	50.48	31.38	7.45	24.75	51.30	74	-22.70	PK
V	15600	40.67	31.38	7.45	24.75	41.49	54	-12.51	AV
V	20800	51.64	31.76	7.45	24.86	52.19	74	-21.81	PK
V	20800	40.65	31.76	7.45	24.86	41.20	54	-12.80	AV
H	10400	48.96	30.85	7.45	24.69	50.25	74	-23.75	PK
H	10400	41.68	30.85	7.45	24.69	42.97	54	-11.03	AV
H	15600	52.49	31.38	7.45	24.75	53.31	74	-20.69	PK
H	15600	38.38	31.38	7.45	24.75	39.20	54	-14.80	AV
H	20800	51.76	31.76	7.45	24.86	52.31	74	-21.69	PK
H	20800	39.90	31.76	7.45	24.86	40.45	54	-13.55	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	48.91	30.85	7.45	24.69	50.20	74	-23.80	PK
V	10480	37.49	30.85	7.45	24.69	38.78	54	-15.22	AV
V	15720	50.16	31.38	7.45	24.75	50.98	74	-23.02	PK
V	15720	40.14	31.38	7.45	24.75	40.96	54	-13.04	AV

V	20960	50.47	31.76	7.45	24.86	51.02	74	-22.98	PK
V	20960	39.32	31.76	7.45	24.86	39.87	54	-14.13	AV
H	10480	49.46	30.85	7.45	24.69	50.75	74	-23.25	PK
H	10480	40.97	30.85	7.45	24.69	42.26	54	-11.74	AV
H	15720	53.56	31.38	7.45	24.75	54.38	74	-19.62	PK
H	15720	38.77	31.38	7.45	24.75	39.59	54	-14.41	AV
H	20960	50.44	31.76	7.45	24.86	50.99	74	-23.01	PK
H	20960	38.89	31.76	7.45	24.86	39.44	54	-14.56	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:5745MHz									
V	11490	49.90	30.85	7.45	24.69	51.19	74	-22.81	PK
V	11490	36.10	30.85	7.45	24.69	37.39	54	-16.61	AV
V	17235	51.01	31.38	7.45	24.75	51.83	74	-22.17	PK
V	17235	40.01	31.38	7.45	24.75	40.83	54	-13.17	AV
V	22980	50.24	31.76	7.45	24.86	50.79	74	-23.21	PK
V	22980	39.50	31.76	7.45	24.86	40.05	54	-13.95	AV
H	11490	49.09	30.85	7.45	24.69	50.38	74	-23.62	PK
H	11490	40.61	30.85	7.45	24.69	41.90	54	-12.10	AV
H	17235	52.32	31.38	7.45	24.75	53.14	74	-20.86	PK
H	17235	39.44	31.38	7.45	24.75	40.26	54	-13.74	AV
H	22980	49.27	31.76	7.45	24.86	49.82	74	-24.18	PK
H	22980	38.91	31.76	7.45	24.86	39.46	54	-14.54	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:5785MHz									
V	11570	49.68	30.85	7.45	24.69	50.97	74	-23.03	PK
V	11570	36.61	30.85	7.45	24.69	37.90	54	-16.10	AV
V	17355	51.03	31.38	7.45	24.75	51.85	74	-22.15	PK
V	17355	40.54	31.38	7.45	24.75	41.36	54	-12.64	AV
V	23140	51.13	31.76	7.45	24.86	51.68	74	-22.32	PK
V	23140	40.32	31.76	7.45	24.86	40.87	54	-13.13	AV
H	11570	51.16	30.85	7.45	24.69	52.45	74	-21.55	PK
H	11570	40.08	30.85	7.45	24.69	41.37	54	-12.63	AV
H	17355	52.77	31.38	7.45	24.75	53.59	74	-20.41	PK
H	17355	40.44	31.38	7.45	24.75	41.26	54	-12.74	AV
H	23140	49.62	31.76	7.45	24.86	50.17	74	-23.83	PK
H	23140	39.76	31.76	7.45	24.86	40.31	54	-13.69	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:5825MHz									
V	11650	51.14	30.85	7.45	24.69	52.43	74	-21.57	PK
V	11650	37.21	30.85	7.45	24.69	38.50	54	-15.50	AV
V	17475	50.20	31.38	7.45	24.75	51.02	74	-22.98	PK
V	17475	38.24	31.38	7.45	24.75	39.06	54	-14.94	AV
V	23300	49.25	31.76	7.45	24.86	49.80	74	-24.20	PK

V	23300	39.70	31.76	7.45	24.86	40.25	54	-13.75	AV
H	11650	50.76	30.85	7.45	24.69	52.05	74	-21.95	PK
H	11650	39.10	30.85	7.45	24.69	40.39	54	-13.61	AV
H	17475	53.14	31.38	7.45	24.75	53.96	74	-20.04	PK
H	17475	40.36	31.38	7.45	24.75	41.18	54	-12.82	AV
H	23300	50.14	31.76	7.45	24.86	50.69	74	-23.31	PK
H	23300	37.92	31.76	7.45	24.86	38.47	54	-15.53	AV

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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	49.91	30.85	7.45	24.69	51.20	74	-22.80	PK
V	10380	37.36	30.85	7.45	24.69	38.65	54	-15.35	AV
V	15570	50.52	31.38	7.45	24.75	51.34	74	-22.66	PK
V	15570	39.22	31.38	7.45	24.75	40.04	54	-13.96	AV
V	20760	50.68	31.76	7.45	24.86	51.23	74	-22.77	PK
V	20760	40.49	31.76	7.45	24.86	41.04	54	-12.96	AV
H	10380	51.71	30.85	7.45	24.69	53.00	74	-21.00	PK
H	10380	41.74	30.85	7.45	24.69	43.03	54	-10.97	AV
H	15570	51.86	31.38	7.45	24.75	52.68	74	-21.32	PK
H	15570	39.73	31.38	7.45	24.75	40.55	54	-13.45	AV
H	20760	50.16	31.76	7.45	24.86	50.71	74	-23.29	PK
H	20760	39.97	31.76	7.45	24.86	40.52	54	-13.48	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	50.69	30.85	7.45	24.69	51.98	74	-22.02	PK
V	10460	35.89	30.85	7.45	24.69	37.18	54	-16.82	AV
V	15690	50.41	31.38	7.45	24.75	51.23	74	-22.77	PK
V	15690	37.92	31.38	7.45	24.75	38.74	54	-15.26	AV
V	20920	50.16	31.76	7.45	24.86	50.71	74	-23.29	PK
V	20920	40.39	31.76	7.45	24.86	40.94	54	-13.06	AV
H	10460	51.12	30.85	7.45	24.69	52.41	74	-21.59	PK
H	10460	39.55	30.85	7.45	24.69	40.84	54	-13.16	AV
H	15690	53.44	31.38	7.45	24.75	54.26	74	-19.74	PK
H	15690	40.64	31.38	7.45	24.75	41.46	54	-12.54	AV
H	20920	51.45	31.76	7.45	24.86	52.00	74	-22.00	PK
H	20920	38.08	31.76	7.45	24.86	38.63	54	-15.37	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	51.61	30.85	7.45	24.69	52.90	74	-21.10	PK
V	11510	36.78	30.85	7.45	24.69	38.07	54	-15.93	AV
V	17265	51.29	31.38	7.45	24.75	52.11	74	-21.89	PK
V	17265	39.66	31.38	7.45	24.75	40.48	54	-13.52	AV
V	23020	51.72	31.76	7.45	24.86	52.27	74	-21.73	PK

V	23020	38.80	31.76	7.45	24.86	39.35	54	-14.65	AV
H	11510	49.89	30.85	7.45	24.69	51.18	74	-22.82	PK
H	11510	39.82	30.85	7.45	24.69	41.11	54	-12.89	AV
H	17265	52.10	31.38	7.45	24.75	52.92	74	-21.08	PK
H	17265	37.86	31.38	7.45	24.75	38.68	54	-15.32	AV
H	23020	50.02	31.76	7.45	24.86	50.57	74	-23.43	PK
H	23020	40.62	31.76	7.45	24.86	41.17	54	-12.83	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
High Channel:5795MHz									
V	11590	50.58	30.85	7.45	24.69	51.87	74	-22.13	PK
V	11590	37.00	30.85	7.45	24.69	38.29	54	-15.71	AV
V	17385	50.68	31.38	7.45	24.75	51.50	74	-22.50	PK
V	17385	37.95	31.38	7.45	24.75	38.77	54	-15.23	AV
V	23180	51.16	31.76	7.45	24.86	51.71	74	-22.29	PK
V	23180	39.70	31.76	7.45	24.86	40.25	54	-13.75	AV
H	11590	49.30	30.85	7.45	24.69	50.59	74	-23.41	PK
H	11590	41.66	30.85	7.45	24.69	42.95	54	-11.05	AV
H	17385	51.81	31.38	7.45	24.75	52.63	74	-21.37	PK
H	17385	40.23	31.38	7.45	24.75	41.05	54	-12.95	AV
H	23180	51.10	31.76	7.45	24.86	51.65	74	-22.35	PK
H	23180	39.45	31.76	7.45	24.86	40.00	54	-14.00	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.

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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	49.29	30.85	7.45	24.69	50.58	74	-23.42	PK
V	10360	38.19	30.85	7.45	24.69	39.48	54	-14.52	AV
V	15540	50.76	31.38	7.45	24.75	51.58	74	-22.42	PK
V	15540	39.67	31.38	7.45	24.75	40.49	54	-13.51	AV
V	20720	50.60	31.76	7.45	24.86	51.15	74	-22.85	PK
V	20720	38.17	31.76	7.45	24.86	38.72	54	-15.28	AV
H	10360	50.91	30.85	7.45	24.69	52.20	74	-21.80	PK
H	10360	40.02	30.85	7.45	24.69	41.31	54	-12.69	AV
H	15540	52.98	31.38	7.45	24.75	53.80	74	-20.20	PK
H	15540	39.56	31.38	7.45	24.75	40.38	54	-13.62	AV
H	20720	50.08	31.76	7.45	24.86	50.63	74	-23.37	PK
H	20720	38.38	31.76	7.45	24.86	38.93	54	-15.07	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	51.30	30.85	7.45	24.69	52.59	74	-21.41	PK
V	10400	38.72	30.85	7.45	24.69	40.01	54	-13.99	AV
V	15600	51.06	31.38	7.45	24.75	51.88	74	-22.12	PK
V	15600	39.55	31.38	7.45	24.75	40.37	54	-13.63	AV
V	20800	49.68	31.76	7.45	24.86	50.23	74	-23.77	PK
V	20800	39.49	31.76	7.45	24.86	40.04	54	-13.96	AV
H	10400	49.53	30.85	7.45	24.69	50.82	74	-23.18	PK
H	10400	40.84	30.85	7.45	24.69	42.13	54	-11.87	AV
H	15600	52.72	31.38	7.45	24.75	53.54	74	-20.46	PK
H	15600	37.78	31.38	7.45	24.75	38.60	54	-15.40	AV
H	20800	50.31	31.76	7.45	24.86	50.86	74	-23.14	PK
H	20800	39.46	31.76	7.45	24.86	40.01	54	-13.99	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	50.20	30.85	7.45	24.69	51.49	74	-22.51	PK
V	10480	38.28	30.85	7.45	24.69	39.57	54	-14.43	AV
V	15720	50.95	31.38	7.45	24.75	51.77	74	-22.23	PK
V	15720	40.14	31.38	7.45	24.75	40.96	54	-13.04	AV
V	20960	51.74	31.76	7.45	24.86	52.29	74	-21.71	PK
V	20960	39.90	31.76	7.45	24.86	40.45	54	-13.55	AV
H	10480	51.53	30.85	7.45	24.69	52.82	74	-21.18	PK
H	10480	41.49	30.85	7.45	24.69	42.78	54	-11.22	AV
H	15720	53.48	31.38	7.45	24.75	54.30	74	-19.70	PK
H	15720	40.60	31.38	7.45	24.75	41.42	54	-12.58	AV
H	20960	50.81	31.76	7.45	24.86	51.36	74	-22.64	PK
H	20960	39.76	31.76	7.45	24.86	40.31	54	-13.69	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	51.29	30.85	7.45	24.69	52.58	74	-21.42	PK
V	11490	37.46	30.85	7.45	24.69	38.75	54	-15.25	AV
V	17235	51.44	31.38	7.45	24.75	52.26	74	-21.74	PK
V	17235	40.58	31.38	7.45	24.75	41.40	54	-12.60	AV
V	22980	49.43	31.76	7.45	24.86	49.98	74	-24.02	PK
V	22980	38.23	31.76	7.45	24.86	38.78	54	-15.22	AV
H	11490	49.75	30.85	7.45	24.69	51.04	74	-22.96	PK
H	11490	38.87	30.85	7.45	24.69	40.16	54	-13.84	AV
H	17235	51.81	31.38	7.45	24.75	52.63	74	-21.37	PK
H	17235	40.34	31.38	7.45	24.75	41.16	54	-12.84	AV
H	22980	48.89	31.76	7.45	24.86	49.44	74	-24.56	PK
H	22980	37.90	31.76	7.45	24.86	38.45	54	-15.55	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	49.62	30.85	7.45	24.69	50.91	74	-23.09	PK
V	11570	38.45	30.85	7.45	24.69	39.74	54	-14.26	AV
V	17355	50.81	31.38	7.45	24.75	51.63	74	-22.37	PK
V	17355	39.96	31.38	7.45	24.75	40.78	54	-13.22	AV
V	23140	50.84	31.76	7.45	24.86	51.39	74	-22.61	PK
V	23140	40.00	31.76	7.45	24.86	40.55	54	-13.45	AV
H	11570	50.26	30.85	7.45	24.69	51.55	74	-22.45	PK
H	11570	40.97	30.85	7.45	24.69	42.26	54	-11.74	AV
H	17355	53.04	31.38	7.45	24.75	53.86	74	-20.14	PK
H	17355	39.26	31.38	7.45	24.75	40.08	54	-13.92	AV
H	23140	51.71	31.76	7.45	24.86	52.26	74	-21.74	PK
H	23140	39.10	31.76	7.45	24.86	39.65	54	-14.35	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:5795MHz									
V	11590	50.52	30.85	7.45	24.69	51.81	74	-22.19	PK
V	11590	35.83	30.85	7.45	24.69	37.12	54	-16.88	AV
V	17385	50.42	31.38	7.45	24.75	51.24	74	-22.76	PK
V	17385	38.19	31.38	7.45	24.75	39.01	54	-14.99	AV
V	23180	49.72	31.76	7.45	24.86	50.27	74	-23.73	PK
V	23180	39.18	31.76	7.45	24.86	39.73	54	-14.27	AV
H	11590	50.63	30.85	7.45	24.69	51.92	74	-22.08	PK
H	11590	39.57	30.85	7.45	24.69	40.86	54	-13.14	AV
H	17385	51.98	31.38	7.45	24.75	52.80	74	-21.20	PK
H	17385	39.52	31.38	7.45	24.75	40.34	54	-13.66	AV
H	23180	50.32	31.76	7.45	24.86	50.87	74	-23.13	PK
H	23180	38.54	31.76	7.45	24.86	39.09	54	-14.91	AV

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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)	
Low Channel:5190MHz									
V	10380	49.63	30.85	7.45	24.69	50.92	74	-23.08	PK
V	10380	36.47	30.85	7.45	24.69	37.76	54	-16.24	AV
V	15570	50.76	31.38	7.45	24.75	51.58	74	-22.42	PK
V	15570	37.97	31.38	7.45	24.75	38.79	54	-15.21	AV
V	20760	50.46	31.76	7.45	24.86	51.01	74	-22.99	PK
V	20760	40.01	31.76	7.45	24.86	40.56	54	-13.44	AV
H	10380	49.75	30.85	7.45	24.69	51.04	74	-22.96	PK
H	10380	40.04	30.85	7.45	24.69	41.33	54	-12.67	AV
H	15570	52.21	31.38	7.45	24.75	53.03	74	-20.97	PK
H	15570	39.10	31.38	7.45	24.75	39.92	54	-14.08	AV
H	20760	49.42	31.76	7.45	24.86	49.97	74	-24.03	PK
H	20760	39.47	31.76	7.45	24.86	40.02	54	-13.98	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	51.33	30.85	7.45	24.69	52.62	74	-21.38	PK
V	10460	38.23	30.85	7.45	24.69	39.52	54	-14.48	AV
V	15690	50.68	31.38	7.45	24.75	51.50	74	-22.50	PK
V	15690	39.97	31.38	7.45	24.75	40.79	54	-13.21	AV
V	20920	49.82	31.76	7.45	24.86	50.37	74	-23.63	PK
V	20920	40.48	31.76	7.45	24.86	41.03	54	-12.97	AV
H	10460	49.95	30.85	7.45	24.69	51.24	74	-22.76	PK
H	10460	41.75	30.85	7.45	24.69	43.04	54	-10.96	AV
H	15690	52.07	31.38	7.45	24.75	52.89	74	-21.11	PK
H	15690	38.39	31.38	7.45	24.75	39.21	54	-14.79	AV
H	20920	50.83	31.76	7.45	24.86	51.38	74	-22.62	PK
H	20920	40.44	31.76	7.45	24.86	40.99	54	-13.01	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	50.87	30.85	7.45	24.69	52.16	74	-21.84	PK
V	11510	35.85	30.85	7.45	24.69	37.14	54	-16.86	AV
V	17265	50.25	31.38	7.45	24.75	51.07	74	-22.93	PK
V	17265	40.49	31.38	7.45	24.75	41.31	54	-12.69	AV
V	23020	49.65	31.76	7.45	24.86	50.20	74	-23.80	PK
V	23020	39.56	31.76	7.45	24.86	40.11	54	-13.89	AV
H	11510	50.94	30.85	7.45	24.69	52.23	74	-21.77	PK
H	11510	40.63	30.85	7.45	24.69	41.92	54	-12.08	AV
H	17265	52.46	31.38	7.45	24.75	53.28	74	-20.72	PK
H	17265	39.69	31.38	7.45	24.75	40.51	54	-13.49	AV
H	23020	49.34	31.76	7.45	24.86	49.89	74	-24.11	PK
H	23020	39.14	31.76	7.45	24.86	39.69	54	-14.31	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:5795MHz									
V	11590	51.62	30.85	7.45	24.69	52.91	74	-21.09	PK
V	11590	38.62	30.85	7.45	24.69	39.91	54	-14.09	AV
V	17385	51.30	31.38	7.45	24.75	52.12	74	-21.88	PK
V	17385	39.44	31.38	7.45	24.75	40.26	54	-13.74	AV
V	23180	51.53	31.76	7.45	24.86	52.08	74	-21.92	PK
V	23180	40.60	31.76	7.45	24.86	41.15	54	-12.85	AV
H	11590	51.17	30.85	7.45	24.69	52.46	74	-21.54	PK
H	11590	41.28	30.85	7.45	24.69	42.57	54	-11.43	AV
H	17385	53.47	31.38	7.45	24.75	54.29	74	-19.71	PK
H	17385	38.61	31.38	7.45	24.75	39.43	54	-14.57	AV
H	23180	50.18	31.76	7.45	24.86	50.73	74	-23.27	PK
H	23180	40.26	31.76	7.45	24.86	40.81	54	-13.19	AV

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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	49.41	30.85	7.45	24.69	50.70	74	-23.30	PK
V	10420	37.55	30.85	7.45	24.69	38.84	54	-15.16	AV
V	15630	51.51	31.38	7.45	24.75	52.33	74	-21.67	PK
V	15630	39.10	31.38	7.45	24.75	39.92	54	-14.08	AV
V	20840	49.29	31.76	7.45	24.86	49.84	74	-24.16	PK
V	20840	38.20	31.76	7.45	24.86	38.75	54	-15.25	AV
H	10420	49.95	30.85	7.45	24.69	51.24	74	-22.76	PK
H	10420	40.46	30.85	7.45	24.69	41.75	54	-12.25	AV
H	15630	53.14	31.38	7.45	24.75	53.96	74	-20.04	PK
H	15630	39.42	31.38	7.45	24.75	40.24	54	-13.76	AV
H	20840	51.10	31.76	7.45	24.86	51.65	74	-22.35	PK
H	20840	39.36	31.76	7.45	24.86	39.91	54	-14.09	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	50.24	30.85	7.45	24.69	51.53	74	-22.47	PK
V	11550	38.73	30.85	7.45	24.69	40.02	54	-13.98	AV
V	17325	50.45	31.38	7.45	24.75	51.27	74	-22.73	PK
V	17325	40.12	31.38	7.45	24.75	40.94	54	-13.06	AV
V	23100	49.88	31.76	7.45	24.86	50.43	74	-23.57	PK
V	23100	39.34	31.76	7.45	24.86	39.89	54	-14.11	AV
H	11550	49.81	30.85	7.45	24.69	51.10	74	-22.90	PK
H	11550	40.25	30.85	7.45	24.69	41.54	54	-12.46	AV
H	17325	51.79	31.38	7.45	24.75	52.61	74	-21.39	PK
H	17325	40.38	31.38	7.45	24.75	41.20	54	-12.80	AV
H	23100	49.77	31.76	7.45	24.86	50.32	74	-23.68	PK
H	23100	40.02	31.76	7.45	24.86	40.57	54	-13.43	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	53.92	-0.12	53.80	74.00	-20.20	peak	H
	41.27	-0.12	41.15	54.00	-12.85	AV	H
5150	54.20	-0.12	54.08	74.00	-19.92	peak	V
	40.44	-0.12	40.32	54.00	-13.68	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	51.79	-0.12	51.67	74.00	-22.33	peak	H
	38.17	-0.12	38.05	54.00	-15.95	AV	H
5250	53.13	-0.12	53.01	74.00	-20.99	peak	V
	38.65	-0.12	38.53	54.00	-15.47	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	47.84	-0.12	47.72	68.20	-20.48	peak	H
5700	85.80	-0.12	85.68	105.20	-19.52	peak	H
5720	88.45	-0.12	88.33	110.80	-22.47	peak	H
5725	96.67	-0.12	96.55	122.20	-25.65	peak	H
5650	48.58	-0.12	48.46	68.20	-19.74	peak	V
5700	85.21	-0.12	85.09	105.20	-20.11	peak	V
5720	90.41	-0.12	90.29	110.80	-20.51	peak	V
5725	92.77	-0.12	92.65	122.20	-29.55	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	105.87	-0.12	105.75	122.20	-16.45	peak	H
5855	87.28	-0.12	87.16	110.80	-23.64	peak	H
5875	83.62	-0.12	83.50	105.20	-21.70	peak	H
5925	51.24	-0.12	51.12	68.20	-17.08	peak	H
5850	100.61	-0.12	100.49	122.20	-21.71	peak	V
5855	88.02	-0.12	87.90	110.80	-22.90	peak	V
5875	82.42	-0.12	82.30	105.20	-22.90	peak	V
5925	51.05	-0.12	50.93	68.20	-17.27	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	51.94	-0.12	51.82	74.00	-22.18	peak	H
	38.20	-0.12	38.08	54.00	-15.92	AV	H
5150	55.27	-0.12	55.15	74.00	-18.85	peak	V
	37.62	-0.12	37.50	54.00	-16.50	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	52.40	-0.12	52.28	74.00	-21.72	peak	H
	41.23	-0.12	41.11	54.00	-12.89	AV	H
5250	56.24	-0.12	56.12	74.00	-17.88	peak	V
	39.28	-0.12	39.16	54.00	-14.84	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	49.18	-0.12	49.06	68.20	-19.14	peak	H
5700	86.49	-0.12	86.37	105.20	-18.83	peak	H
5720	90.02	-0.12	89.90	110.80	-20.90	peak	H
5725	98.99	-0.12	98.87	122.20	-23.33	peak	H
5650	46.36	-0.12	46.24	68.20	-21.96	peak	V
5700	85.17	-0.12	85.05	105.20	-20.15	peak	V
5720	90.93	-0.12	90.81	110.80	-19.99	peak	V
5725	93.66	-0.12	93.54	122.20	-28.66	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	105.70	-0.12	105.58	122.20	-16.62	peak	H
5855	86.11	-0.12	85.99	110.80	-24.81	peak	H
5875	86.67	-0.12	86.55	105.20	-18.65	peak	H
5925	50.62	-0.12	50.50	68.20	-17.70	peak	H
5850	103.14	-0.12	103.02	122.20	-19.18	peak	V
5855	86.81	-0.12	86.69	110.80	-24.11	peak	V
5875	82.64	-0.12	82.52	105.20	-22.68	peak	V
5925	50.88	-0.12	50.76	68.20	-17.44	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	52.40	-0.12	52.28	74.00	-21.72	peak	H
	41.23	-0.12	41.11	54.00	-12.89	AV	H
5150	56.24	-0.12	56.12	74.00	-17.88	peak	V
	39.28	-0.12	39.16	54.00	-14.84	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	52.39	-0.12	52.27	74.00	-21.73	peak	H
	41.11	-0.12	40.99	54.00	-13.01	AV	H
5250	56.13	-0.12	56.01	74.00	-17.99	peak	V
	40.58	-0.12	40.46	54.00	-13.54	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	47.83	-0.12	47.71	68.20	-20.49	peak	H
5700	86.07	-0.12	85.95	105.20	-19.25	peak	H
5720	87.86	-0.12	87.74	110.80	-23.06	peak	H
5725	96.42	-0.12	96.30	122.20	-25.90	peak	H
5650	47.89	-0.12	47.77	68.20	-20.43	peak	V
5700	86.32	-0.12	86.20	105.20	-19.00	peak	V
5720	90.97	-0.12	90.85	110.80	-19.95	peak	V
5725	93.48	-0.12	93.36	122.20	-28.84	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	105.20	-0.12	105.08	122.20	-17.12	peak	H
5855	90.86	-0.12	90.74	110.80	-20.06	peak	H
5875	83.54	-0.12	83.42	105.20	-21.78	peak	H
5925	50.59	-0.12	50.47	68.20	-17.73	peak	H
5850	102.71	-0.12	102.59	122.20	-19.61	peak	V
5855	88.71	-0.12	88.59	110.80	-22.21	peak	V
5875	82.75	-0.12	82.63	105.20	-22.57	peak	V
5925	51.06	-0.12	50.94	68.20	-17.26	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	54.13	-0.12	54.01	74.00	-19.99	peak	H
	39.52	-0.12	39.40	54.00	-14.60	AV	H
5150	54.13	-0.12	54.01	74.00	-19.99	peak	V
	39.28	-0.12	39.16	54.00	-14.84	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	54.84	-0.12	54.72	74.00	-19.28	peak	H

	39.13	-0.12	39.01	54.00	-14.99	AV	H
5250	54.51	-0.12	54.39	74.00	-19.61	peak	V
	40.60	-0.12	40.48	54.00	-13.52	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	49.23	-0.12	49.11	68.20	-19.09	peak	H
5700	86.65	-0.12	86.53	105.20	-18.67	peak	H
5720	88.25	-0.12	88.13	110.80	-22.67	peak	H
5725	97.15	-0.12	97.03	122.20	-25.17	peak	H
5650	46.59	-0.12	46.47	68.20	-21.73	peak	V
5700	87.87	-0.12	87.75	105.20	-17.45	peak	V
5720	88.24	-0.12	88.12	110.80	-22.68	peak	V
5725	92.39	-0.12	92.27	122.20	-29.93	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	104.77	-0.12	104.65	122.20	-17.55	peak	H
5855	86.00	-0.12	85.88	110.80	-24.92	peak	H
5875	82.91	-0.12	82.79	105.20	-22.41	peak	H
5925	51.65	-0.12	51.53	68.20	-16.67	peak	H
5850	100.67	-0.12	100.55	122.20	-21.65	peak	V
5855	85.58	-0.12	85.46	110.80	-25.34	peak	V
5875	87.10	-0.12	86.98	105.20	-18.22	peak	V
5925	50.33	-0.12	50.21	68.20	-17.99	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	54.49	-0.12	54.37	74.00	-19.63	peak	H
	41.33	-0.12	41.21	54.00	-12.79	AV	H
5150	54.86	-0.12	54.74	74.00	-19.26	peak	V
	40.23	-0.12	40.11	54.00	-13.89	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	53.63	-0.12	53.51	74.00	-20.49	peak	H
	41.18	-0.12	41.06	54.00	-12.94	AV	H
5250	55.96	-0.12	55.84	74.00	-18.16	peak	V
	37.21	-0.12	37.09	54.00	-16.91	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	48.30	-0.12	48.18	68.20	-20.02	peak	H
5700	86.86	-0.12	86.74	105.20	-18.46	peak	H
5720	89.11	-0.12	88.99	110.80	-21.81	peak	H
5725	97.43	-0.12	97.31	122.20	-24.89	peak	H
5650	49.20	-0.12	49.08	68.20	-19.12	peak	V
5700	85.37	-0.12	85.25	105.20	-19.95	peak	V
5720	87.77	-0.12	87.65	110.80	-23.15	peak	V
5725	94.39	-0.12	94.27	122.20	-27.93	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	100.60	-0.12	100.48	122.20	-21.72	peak	H
5855	87.46	-0.12	87.34	110.80	-23.46	peak	H
5875	87.92	-0.12	87.80	105.20	-17.40	peak	H
5925	50.63	-0.12	50.51	68.20	-17.69	peak	H
5850	102.09	-0.12	101.97	122.20	-20.23	peak	V
5855	87.12	-0.12	87.00	110.80	-23.80	peak	V
5875	83.04	-0.12	82.92	105.20	-22.28	peak	V
5925	50.01	-0.12	49.89	68.20	-18.31	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	54.49	-0.12	54.37	74.00	-19.63	peak	H
	41.33	-0.12	41.21	54.00	-12.79	AV	H
5150	54.86	-0.12	54.74	74.00	-19.26	peak	V
	40.23	-0.12	40.11	54.00	-13.89	AV	V
5250	53.63	-0.12	53.51	74.00	-20.49	peak	H
	41.18	-0.12	41.06	54.00	-12.94	AV	H
5250	55.96	-0.12	55.84	74.00	-18.16	peak	V
	37.21	-0.12	37.09	54.00	-16.91	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	49.94	-0.12	49.82	68.20	-18.38	peak	H
5700	87.31	-0.12	87.19	105.20	-18.01	peak	H
5720	89.57	-0.12	89.45	110.80	-21.35	peak	H
5725	96.61	-0.12	96.49	122.20	-25.71	peak	H
5650	46.85	-0.12	46.73	68.20	-21.47	peak	V
5700	87.30	-0.12	87.18	105.20	-18.02	peak	V

5720	90.56	-0.12	90.44	110.80	-20.36	peak	V
5725	93.56	-0.12	93.44	122.20	-28.76	peak	V
5850	104.82	-0.12	104.70	122.20	-17.50	peak	H
5855	85.79	-0.12	85.67	110.80	-25.13	peak	H
5875	87.10	-0.12	86.98	105.20	-18.22	peak	H
5925	51.82	-0.12	51.70	68.20	-16.50	peak	H
5850	104.09	-0.12	103.97	122.20	-18.23	peak	V
5855	87.51	-0.12	87.39	110.80	-23.41	peak	V
5875	83.59	-0.12	83.47	105.20	-21.73	peak	V
5925	50.10	-0.12	49.98	68.20	-18.22	peak	V

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

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	55.06	-0.12	54.94	74.00	-19.06	peak	H
	41.68	-0.12	41.56	54.00	-12.44	AV	H
5150	52.89	-0.12	52.77	74.00	-21.23	peak	V
	38.52	-0.12	38.40	54.00	-15.60	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	52.62	-0.12	52.50	74.00	-21.50	peak	H
	39.21	-0.12	39.09	54.00	-14.91	AV	H
5250	54.72	-0.12	54.60	74.00	-19.40	peak	V
	38.11	-0.12	37.99	54.00	-16.01	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	48.07	-0.12	47.95	68.20	-20.25	peak	H
5700	86.23	-0.12	86.11	105.20	-19.09	peak	H
5720	90.21	-0.12	90.09	110.80	-20.71	peak	H
5725	97.82	-0.12	97.70	122.20	-24.50	peak	H
5650	49.15	-0.12	49.03	68.20	-19.17	peak	V
5700	85.50	-0.12	85.38	105.20	-19.82	peak	V
5720	87.55	-0.12	87.43	110.80	-23.37	peak	V
5725	93.31	-0.12	93.19	122.20	-29.01	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	103.49	-0.12	103.37	122.20	-18.83	peak	H
5855	86.02	-0.12	85.90	110.80	-24.90	peak	H
5875	86.36	-0.12	86.24	105.20	-18.96	peak	H
5925	53.73	-0.12	53.61	68.20	-14.59	peak	H
5850	103.14	-0.12	103.02	122.20	-19.18	peak	V
5855	86.54	-0.12	86.42	110.80	-24.38	peak	V
5875	84.88	-0.12	84.76	105.20	-20.44	peak	V
5925	51.26	-0.12	51.14	68.20	-17.06	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	52.42	-0.12	52.30	74.00	-21.70	peak	H
	38.75	-0.12	38.63	54.00	-15.37	AV	H
5150	55.87	-0.12	55.75	74.00	-18.25	peak	V
	37.45	-0.12	37.33	54.00	-16.67	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	55.11	-0.12	54.99	74.00	-19.01	peak	H
	39.09	-0.12	38.97	54.00	-15.03	AV	H
5250	53.74	-0.12	53.62	74.00	-20.38	peak	V
	37.32	-0.12	37.20	54.00	-16.80	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	51.15	-0.12	51.03	68.20	-17.17	peak	H
5700	85.81	-0.12	85.69	105.20	-19.51	peak	H
5720	87.96	-0.12	87.84	110.80	-22.96	peak	H
5725	96.53	-0.12	96.41	122.20	-25.79	peak	H
5650	49.81	-0.12	49.69	68.20	-18.51	peak	V
5700	87.41	-0.12	87.29	105.20	-17.91	peak	V
5720	90.29	-0.12	90.17	110.80	-20.63	peak	V
5725	94.05	-0.12	93.93	122.20	-28.27	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	105.38	-0.12	105.26	122.20	-16.94	peak	H
5855	86.77	-0.12	86.65	110.80	-24.15	peak	H
5875	84.95	-0.12	84.83	105.20	-20.37	peak	H
5925	53.06	-0.12	52.94	68.20	-15.26	peak	H

5850	100.10	-0.12	99.98	122.20	-22.22	peak	V
5855	90.43	-0.12	90.31	110.80	-20.49	peak	V
5875	86.62	-0.12	86.50	105.20	-18.70	peak	V
5925	52.65	-0.12	52.53	68.20	-15.67	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	52.47	-0.12	52.35	74.00	-21.65	peak	H
	38.18	-0.12	38.06	54.00	-15.94	AV	H
5150	52.97	-0.12	52.85	74.00	-21.15	peak	V
	37.83	-0.12	37.71	54.00	-16.29	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	53.83	-0.12	53.71	74.00	-20.29	peak	H
	39.81	-0.12	39.69	54.00	-14.31	AV	H
5250	54.93	-0.12	54.81	74.00	-19.19	peak	V
	40.06	-0.12	39.94	54.00	-14.06	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	49.86	-0.12	49.74	68.20	-18.46	peak	H
5700	86.47	-0.12	86.35	105.20	-18.85	peak	H
5720	90.58	-0.12	90.46	110.80	-20.34	peak	H
5725	97.21	-0.12	97.09	122.20	-25.11	peak	H
5650	48.56	-0.12	48.44	68.20	-19.76	peak	V
5700	85.56	-0.12	85.44	105.20	-19.76	peak	V
5720	89.21	-0.12	89.09	110.80	-21.71	peak	V
5725	95.58	-0.12	95.46	122.20	-26.74	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	102.08	-0.12	101.96	122.20	-20.24	peak	H
5855	85.90	-0.12	85.78	110.80	-25.02	peak	H
5875	86.24	-0.12	86.12	105.20	-19.08	peak	H
5925	50.30	-0.12	50.18	68.20	-18.02	peak	H
5850	105.94	-0.12	105.82	122.20	-16.38	peak	V
5855	89.78	-0.12	89.66	110.80	-21.14	peak	V
5875	82.11	-0.12	81.99	105.20	-23.21	peak	V
5925	52.93	-0.12	52.81	68.20	-15.39	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	53.24	-0.12	53.12	74.00	-20.88	peak	H
	41.26	-0.12	41.14	54.00	-12.86	AV	H
5150	53.27	-0.12	53.15	74.00	-20.85	peak	V
	37.05	-0.12	36.93	54.00	-17.07	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	55.25	-0.12	55.13	74.00	-18.87	peak	H
	40.01	-0.12	39.89	54.00	-14.11	AV	H
5250	54.28	-0.12	54.16	74.00	-19.84	peak	V
	39.25	-0.12	39.13	54.00	-14.87	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	51.43	-0.12	51.31	68.20	-16.89	peak	H
5700	87.75	-0.12	87.63	105.20	-17.57	peak	H
5720	90.92	-0.12	90.80	110.80	-20.00	peak	H
5725	98.44	-0.12	98.32	122.20	-23.88	peak	H
5650	48.73	-0.12	48.61	68.20	-19.59	peak	V
5700	87.38	-0.12	87.26	105.20	-17.94	peak	V
5720	89.02	-0.12	88.90	110.80	-21.90	peak	V
5725	94.65	-0.12	94.53	122.20	-27.67	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	105.65	-0.12	105.53	122.20	-16.67	peak	H
5855	85.15	-0.12	85.03	110.80	-25.77	peak	H
5875	87.73	-0.12	87.61	105.20	-17.59	peak	H
5925	51.12	-0.12	51.00	68.20	-17.20	peak	H
5850	104.64	-0.12	104.52	122.20	-17.68	peak	V
5855	86.13	-0.12	86.01	110.80	-24.79	peak	V
5875	85.27	-0.12	85.15	105.20	-20.05	peak	V
5925	51.88	-0.12	51.76	68.20	-16.44	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	54.71	-0.12	54.59	74.00	-19.41	peak	H

	41.56	-0.12	41.44	54.00	-12.56	AV	H
5150	54.04	-0.12	53.92	74.00	-20.08	peak	V
	38.25	-0.12	38.13	54.00	-15.87	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	54.53	-0.12	54.41	74.00	-19.59	peak	H
	40.87	-0.12	40.75	54.00	-13.25	AV	H
5250	53.70	-0.12	53.58	74.00	-20.42	peak	V
	38.56	-0.12	38.44	54.00	-15.56	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	51.16	-0.12	51.04	68.20	-17.16	peak	H
5700	85.95	-0.12	85.83	105.20	-19.37	peak	H
5720	88.38	-0.12	88.26	110.80	-22.54	peak	H
5725	99.76	-0.12	99.64	122.20	-22.56	peak	H
5650	48.14	-0.12	48.02	68.20	-20.18	peak	V
5700	86.92	-0.12	86.80	105.20	-18.40	peak	V
5720	88.28	-0.12	88.16	110.80	-22.64	peak	V
5725	94.38	-0.12	94.26	122.20	-27.94	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	104.66	-0.12	104.54	122.20	-17.66	peak	H
5855	89.64	-0.12	89.52	110.80	-21.28	peak	H
5875	83.82	-0.12	83.70	105.20	-21.50	peak	H
5925	52.10	-0.12	51.98	68.20	-16.22	peak	H
5850	100.54	-0.12	100.42	122.20	-21.78	peak	V
5855	87.03	-0.12	86.91	110.80	-23.89	peak	V
5875	83.93	-0.12	83.81	105.20	-21.39	peak	V
5925	50.95	-0.12	50.83	68.20	-17.37	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	53.63	-0.12	53.51	74.00	-20.49	peak	H
	41.55	-0.12	41.43	54.00	-12.57	AV	H
5150	54.13	-0.12	54.01	74.00	-19.99	peak	V
	39.58	-0.12	39.46	54.00	-14.54	AV	V
5250	52.83	-0.12	52.71	74.00	-21.29	peak	H
	39.90	-0.12	39.78	54.00	-14.22	AV	H
5250	54.24	-0.12	54.12	74.00	-19.88	peak	V

	40.42	-0.12	40.30	54.00	-13.70	AV	V
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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	48.89	-0.12	48.77	68.20	-19.43	peak	H
5700	87.98	-0.12	87.86	105.20	-17.34	peak	H
5720	88.44	-0.12	88.32	110.80	-22.48	peak	H
5725	96.73	-0.12	96.61	122.20	-25.59	peak	H
5650	49.89	-0.12	49.77	68.20	-18.43	peak	V
5700	86.88	-0.12	86.76	105.20	-18.44	peak	V
5720	87.02	-0.12	86.90	110.80	-23.90	peak	V
5725	93.01	-0.12	92.89	122.20	-29.31	peak	V
5850	105.35	-0.12	105.23	122.20	-16.97	peak	H
5855	89.06	-0.12	88.94	110.80	-21.86	peak	H
5875	84.15	-0.12	84.03	105.20	-21.17	peak	H
5925	51.14	-0.12	51.02	68.20	-17.18	peak	H
5850	104.38	-0.12	104.26	122.20	-17.94	peak	V
5855	88.33	-0.12	88.21	110.80	-22.59	peak	V
5875	87.59	-0.12	87.47	105.20	-17.73	peak	V
5925	53.66	-0.12	53.54	68.20	-14.66	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

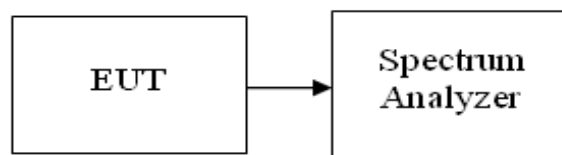
LIMIT:	U-NII-1	11DBM/MHZ
	U-NII-2A	11DBM/MHZ
	U-NII-2C	11DBM/MHZ
	U-NII-3	30DBM/500KHZ

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	5.429	4.004	11	/	/
	40	5200	5.087	3.076	11	/	/
	48	5240	4.939	3.332	11	/	/
n(20MHz)	36	5180	5.745	3.246	11	7.68	11
	40	5200	5.428	2.853	11	7.34	11
	48	5240	4.863	2.672	11	6.91	11
n (40MHz)	38	5190	2.745	2.091	11	5.44	11
	46	5230	1.895	1.866	11	4.89	11
ac (20MHz)	36	5180	3.934	1.511	11	5.90	11
	40	5200	3.736	1.114	11	5.63	11
	48	5240	2.808	1.191	11	5.08	11
ac(40MHz)	38	5190	-0.313	-2.082	11	1.90	11
	46	5230	-0.715	-2.561	11	1.47	11
ac(80MHz)	42	5210	-3.577	-5.705	11	-1.50	11

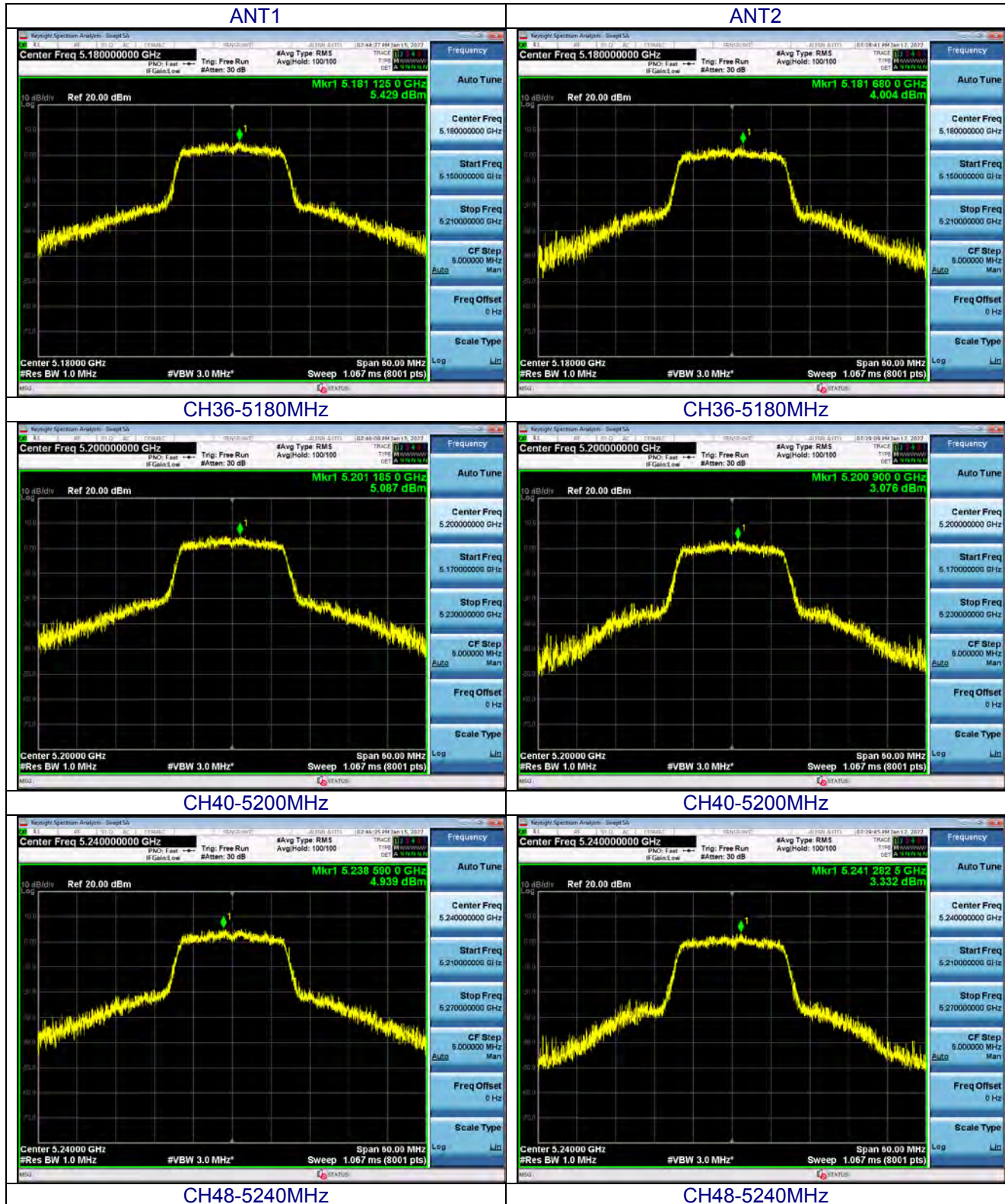
BAND 4

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	36	5745	-3.121	-3.61	-3.207	-3.696	30
	40	5785	-1.655	-3.129	-1.741	-3.215	30
	48	5825	-2.568	-3.282	-2.654	-3.368	30
n (20MHz)	36	5745	-3.573	-4.695	-3.659	-4.781	30
	40	5785	-3.039	-3.08	-3.125	-3.166	30
	48	5825	-2.73	-3.86	-2.816	-3.946	30
n (40MHz)	38	5755	-4.251	-4.999	-4.337	-5.085	30
	46	5795	-4.111	-4.385	-4.197	-4.471	30
ac (20MHz)	36	5745	-6.653	-5.897	-6.739	-5.983	30
	40	5785	-5.487	-6.718	-5.573	-6.804	30
	48	5825	-5.555	-6.528	-5.641	-6.614	30
ac(40MHz)	38	5755	-9.67	-9.388	-9.756	-9.474	30
	46	5795	-10.017	-10.242	-10.103	-10.328	30
ac(80MHz)	42	5755	-12.444	-13.109	-12.530	-13.195	30

Note: Covert PSD [dBm/510KHz]= 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	36	5745	-3.207	-3.696	/	/
	40	5785	-1.741	-3.215	/	/
	48	5825	-2.654	-3.368	/	/
n (20MHz)	36	5745	-3.659	-4.781	-1.174	30
	40	5785	-3.125	-3.166	-0.135	30
	48	5825	-2.816	-3.946	-0.334	30
n (40MHz)	38	5755	-4.337	-5.085	-1.685	30
	46	5795	-4.197	-4.471	-1.322	30
ac (20MHz)	36	5745	-6.739	-5.983	-3.334	30
	40	5785	-5.573	-6.804	-3.135	30
	48	5825	-5.641	-6.614	-3.090	30
ac(40MHz)	38	5755	-9.756	-9.474	-6.602	30
	46	5795	-10.103	-10.328	-7.204	30
ac(80MHz)	42	5755	-12.530	-13.195	-9.839	30

band 1 – 802.11a

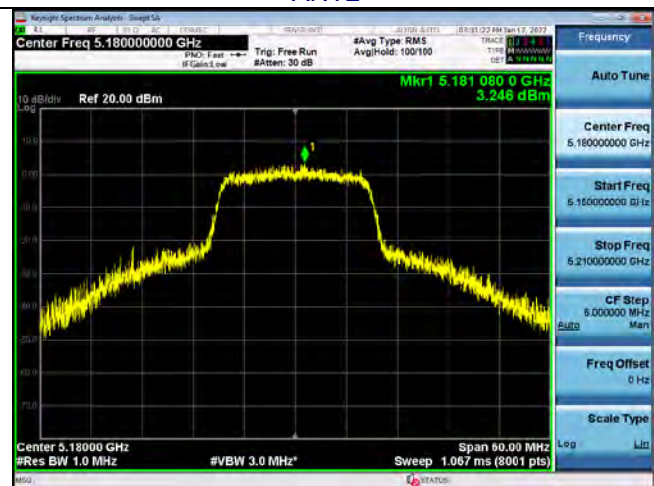


band 1 – 802.11n (20MHz)

ANT1



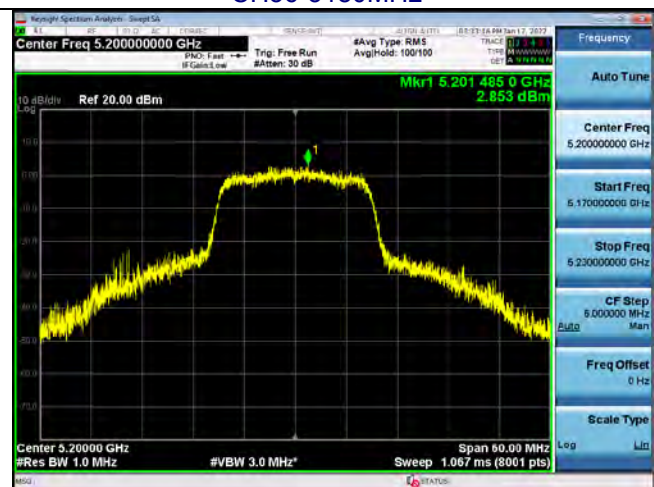
ANT2



CH36-5180MHz



CH36-5180MHz



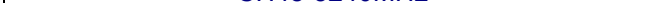
CH40-5200MHz



CH40-5200MHz



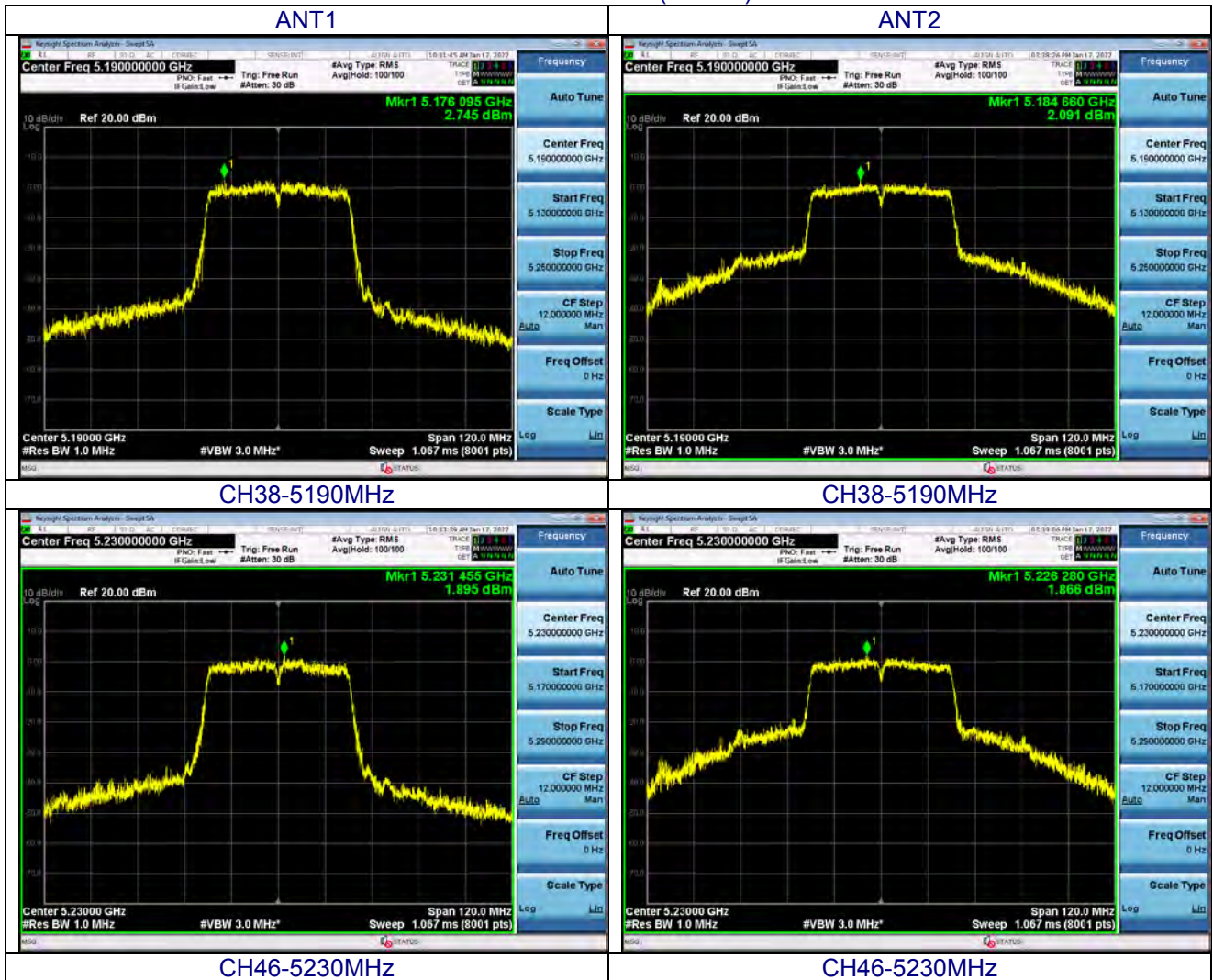
CH48-5240MHz



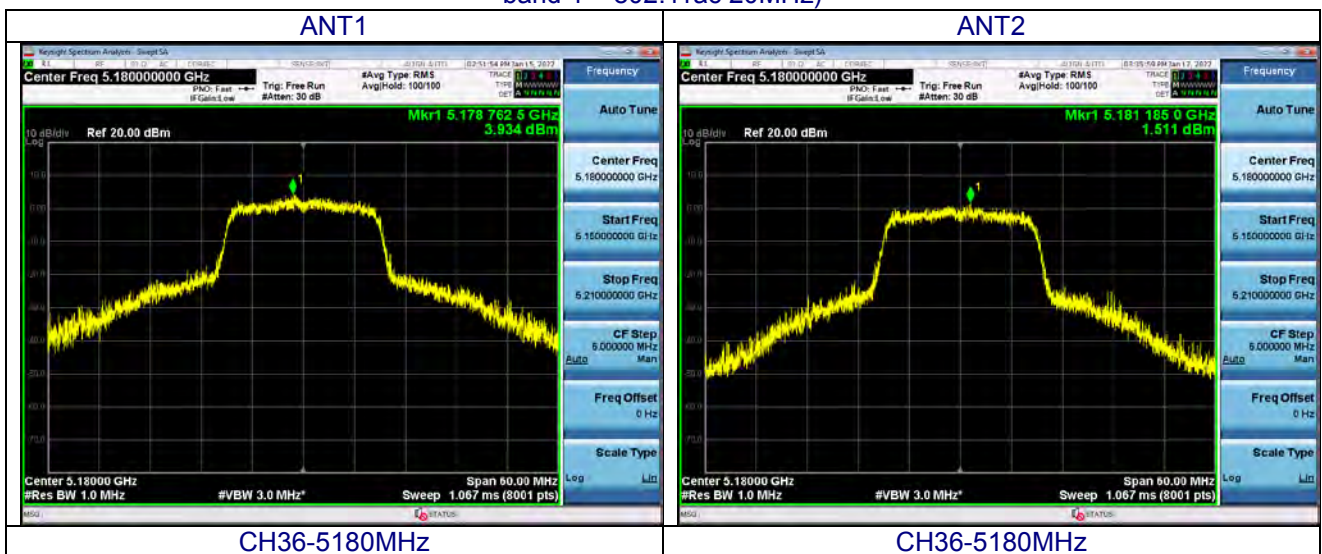
CH48-5240MHz

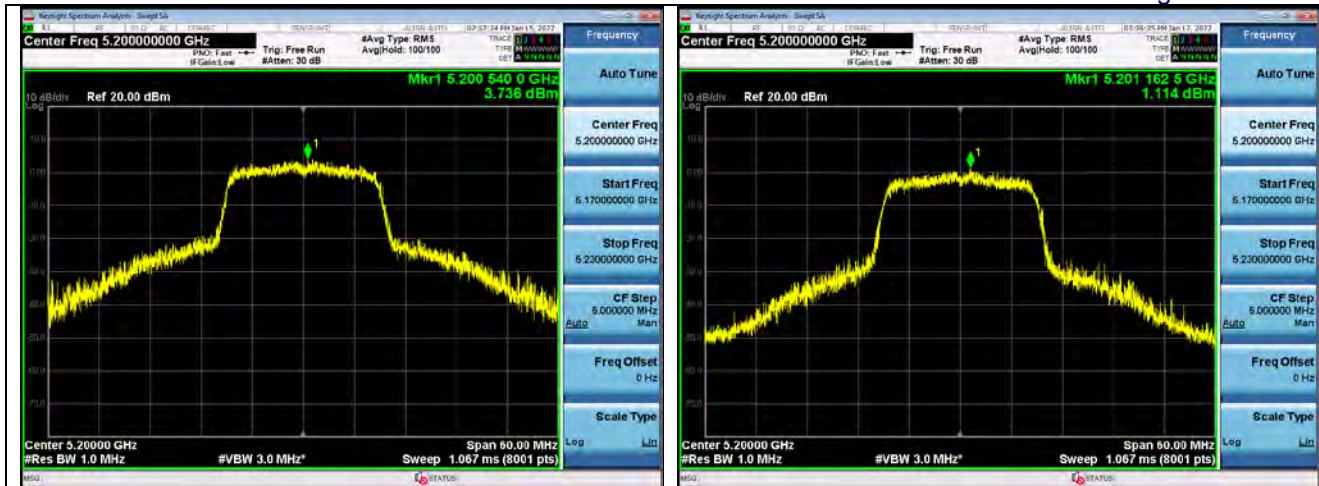


band 1 – 802.11n (40MHz)



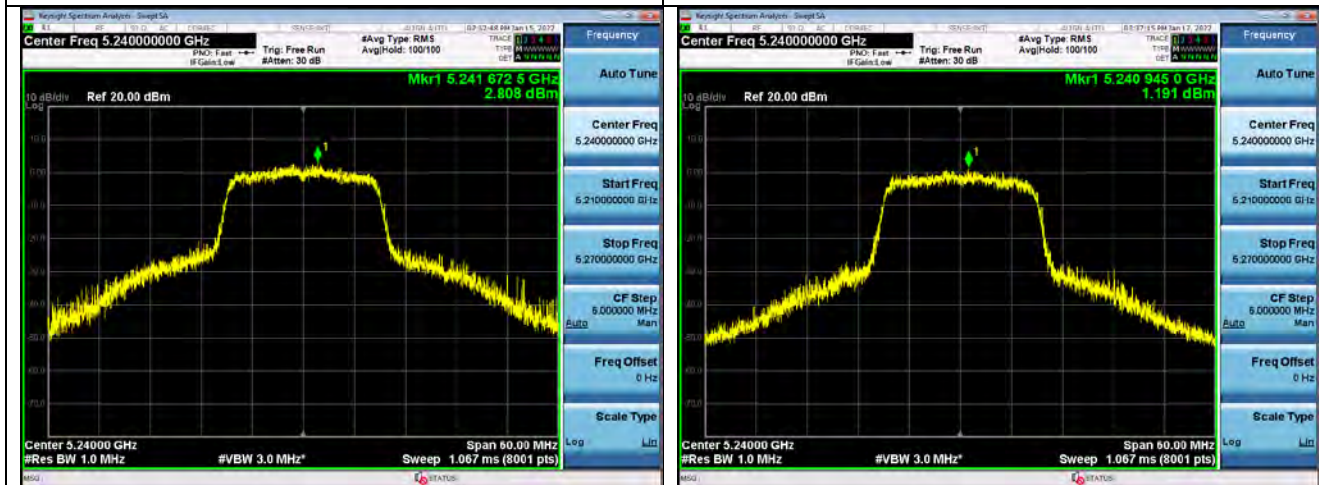
band 1 – 802.11ac 20MHz)





CH40-5200MHz

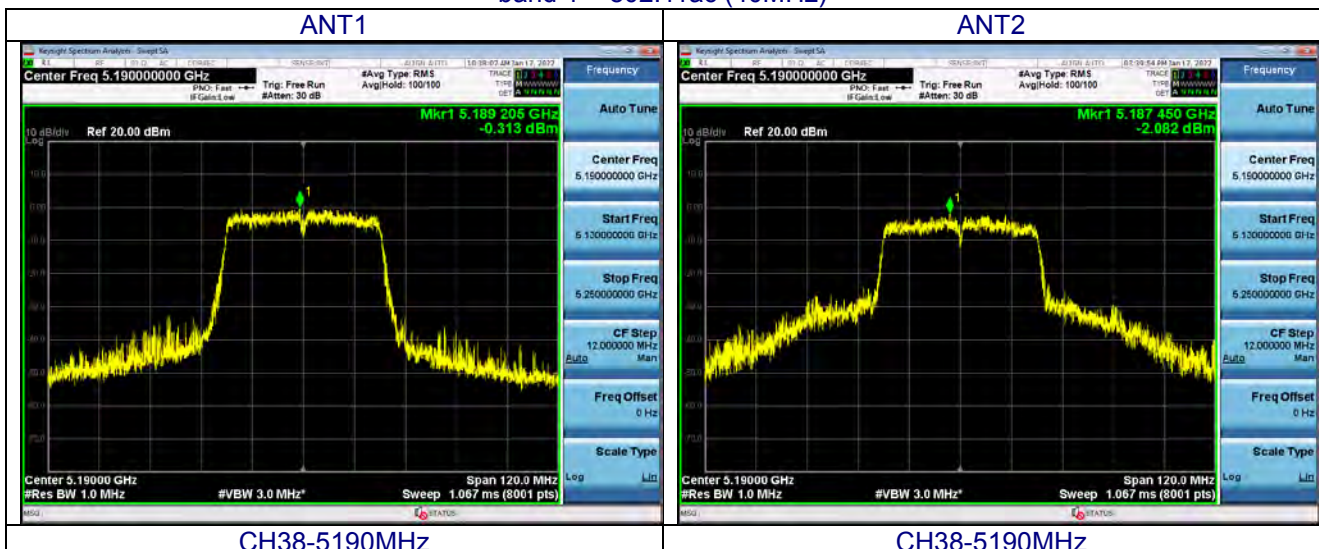
CH40-5200MHz



CH48-5240MHz

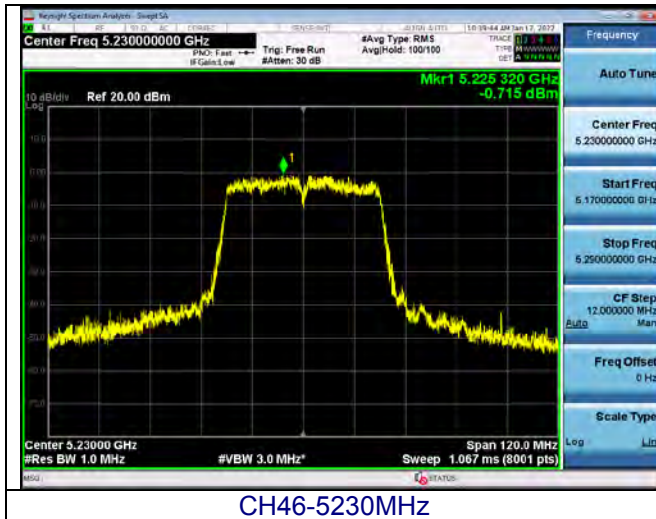
CH48-5240MHz

band 1 – 802.11ac (40MHz)

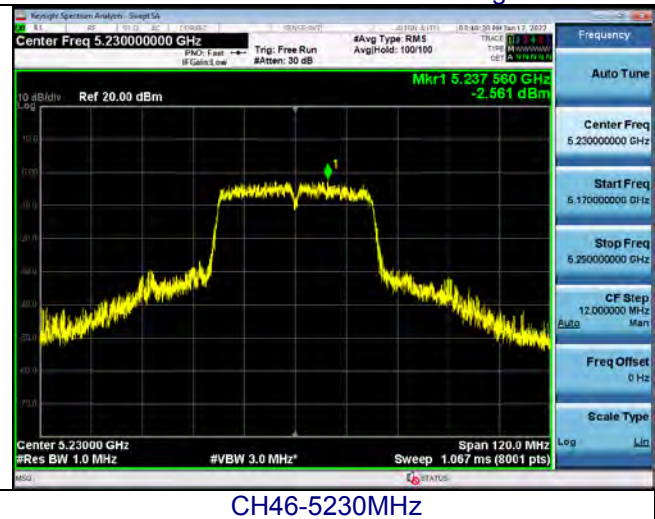


CH38-5190MHz

CH38-5190MHz

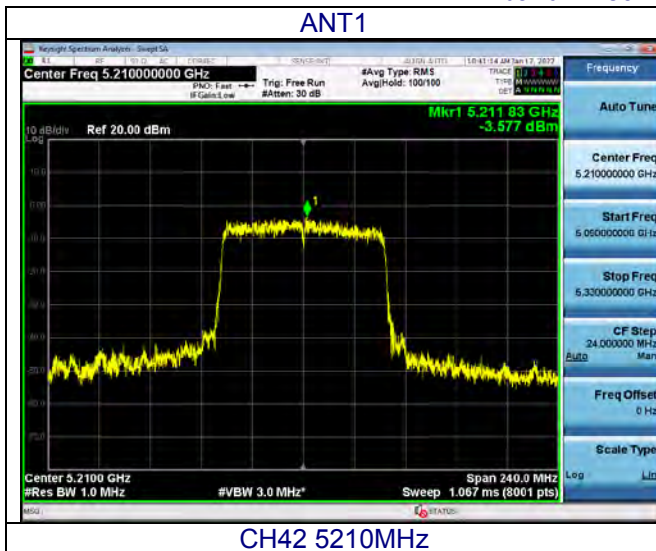


CH46-5230MHz

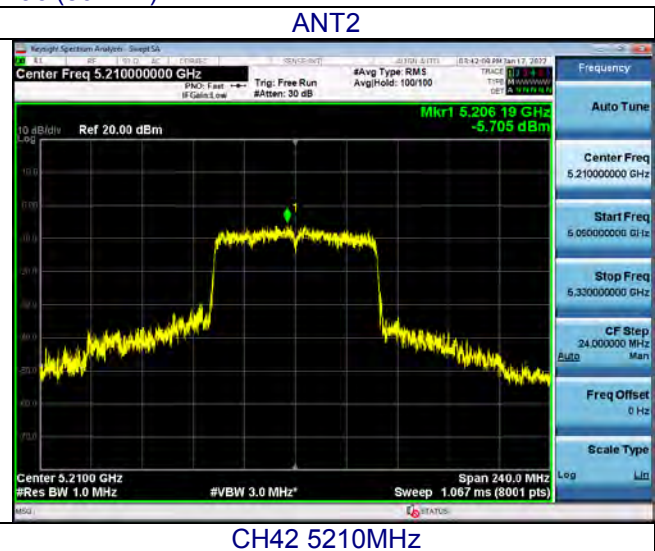


CH46-5230MHz

band 1 -802.11ac (80MHz)



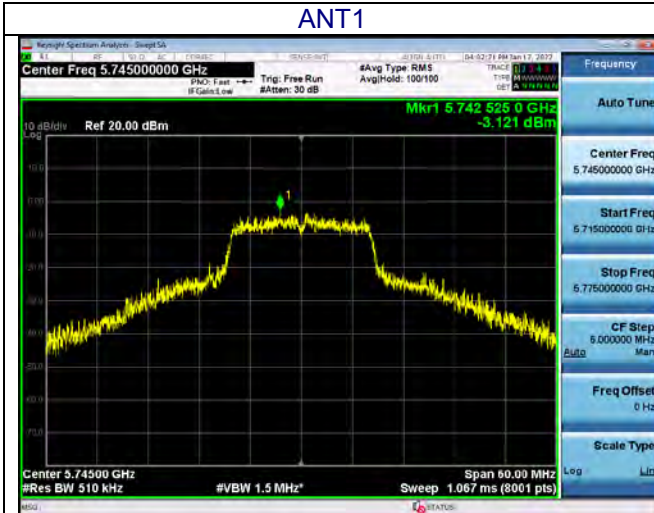
CH42 5210MHz



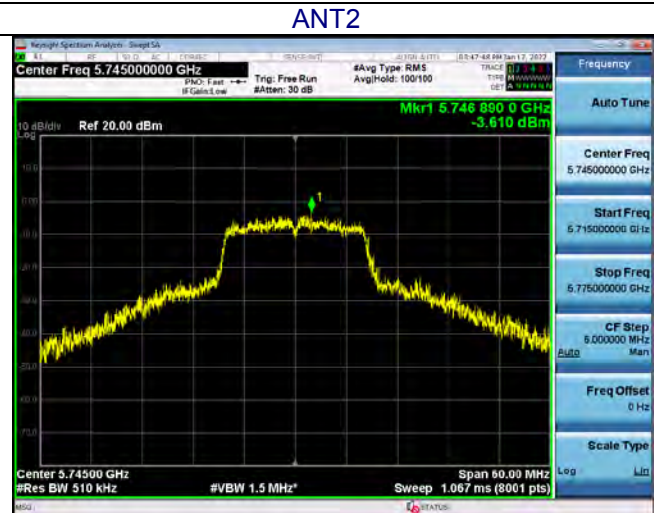
CH42 5210MHz

Band 4 -802.11a

ANT1



ANT2



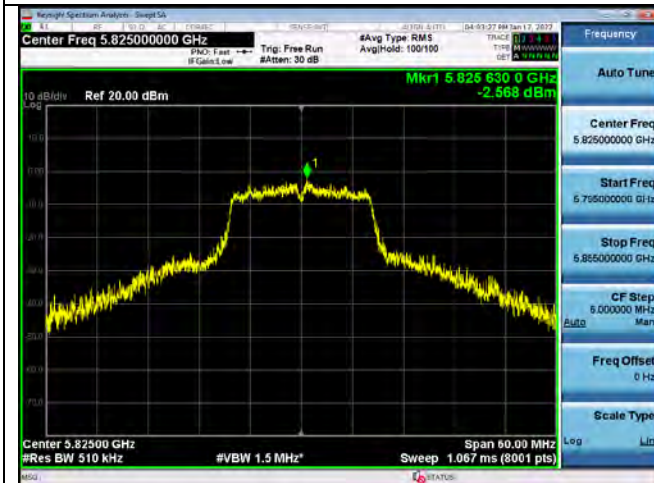
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz

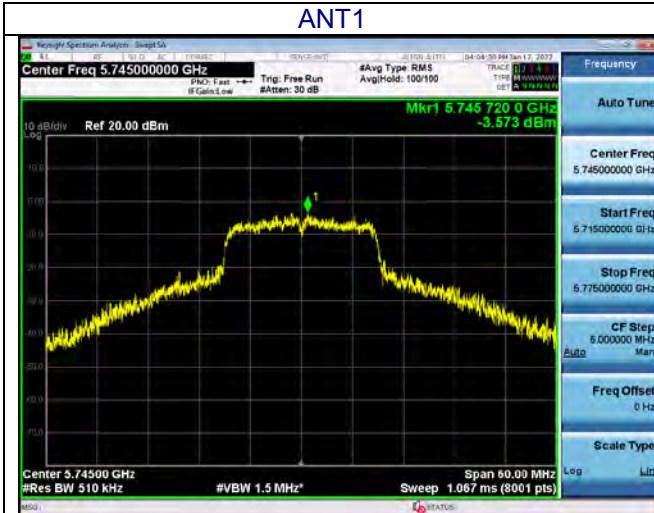


CH165 -5825MHz



Band4 -802.11n (20MHz)

ANT1



ANT2



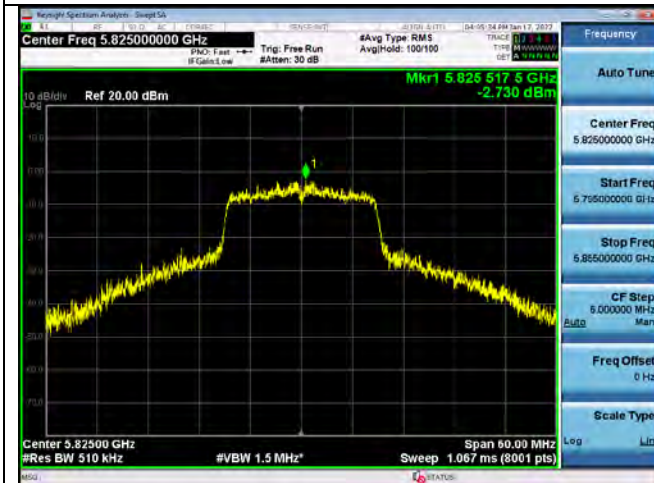
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



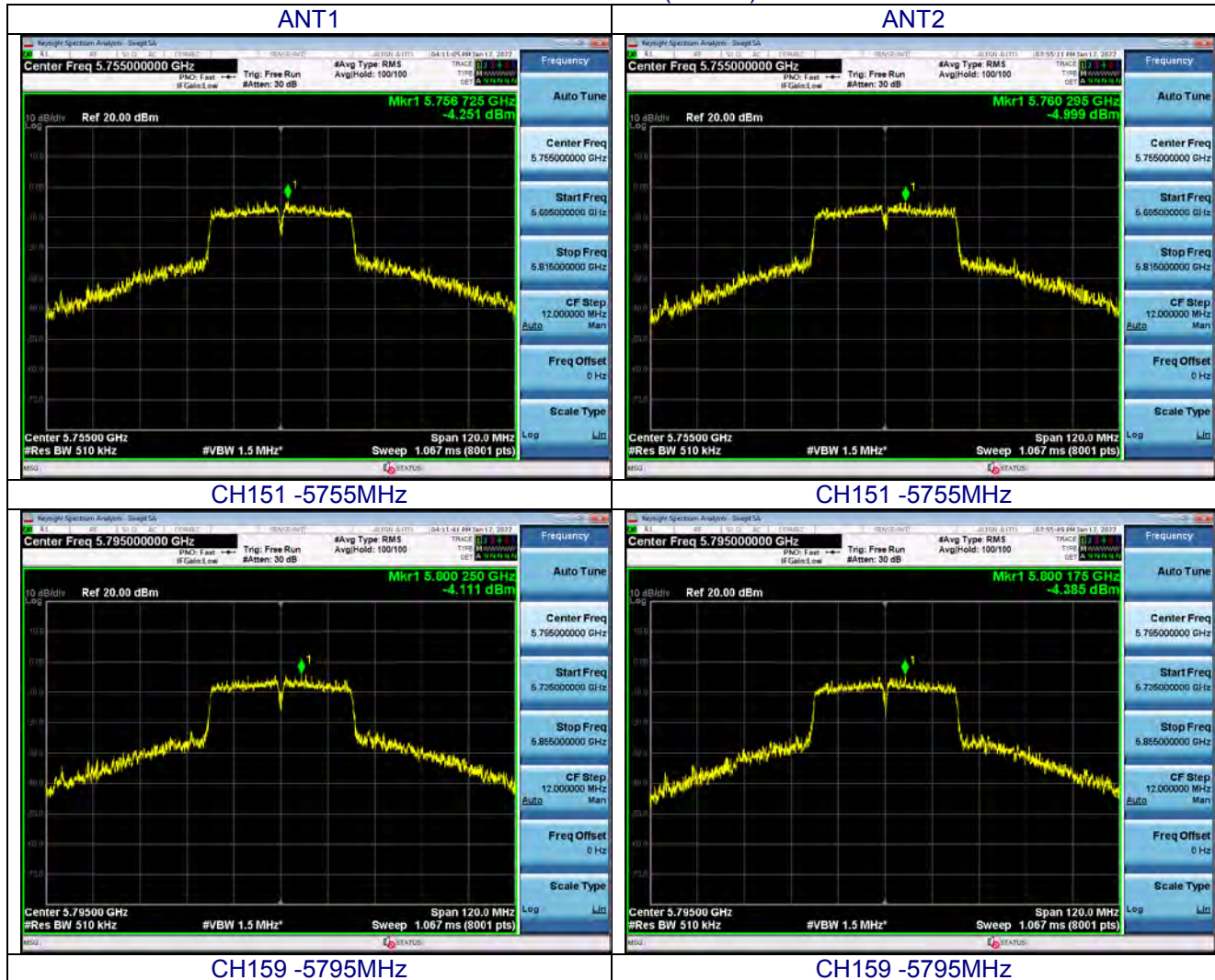
CH165 -5825MHz



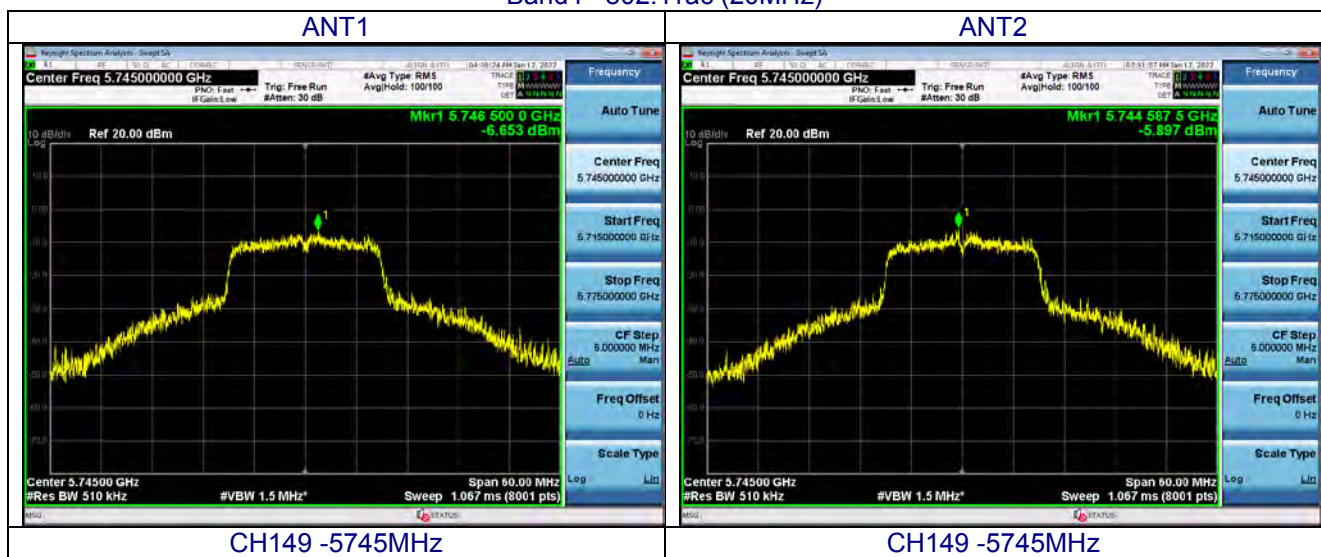
CH165 -5825MHz



Band 4 – 802.11n (40MHz)



Band4 –802.11ac (20MHz)





CH157 -5785MHz



CH157 -5785MHz

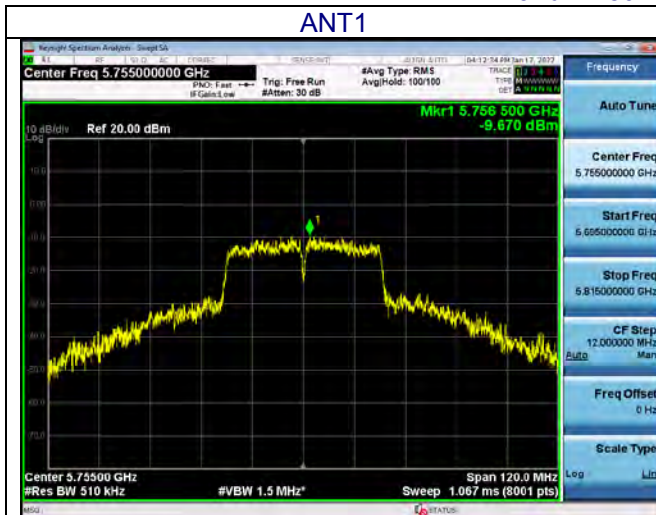


CH165 -5825MHz



CH165 -5825MHz

Band4 – 802.11ac (40MHz)



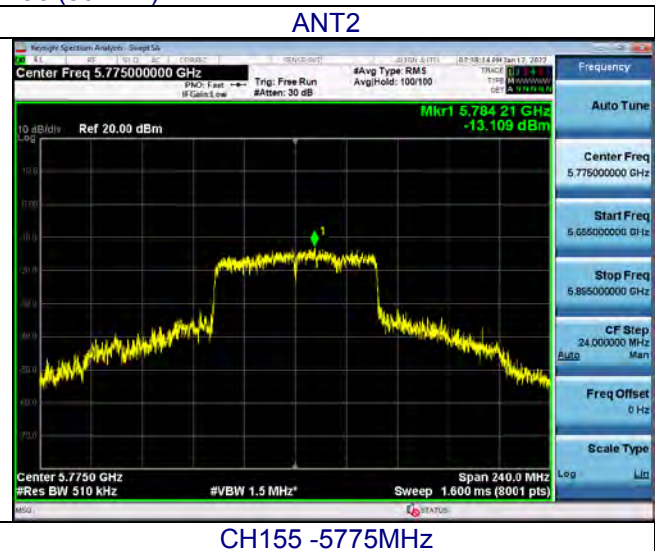
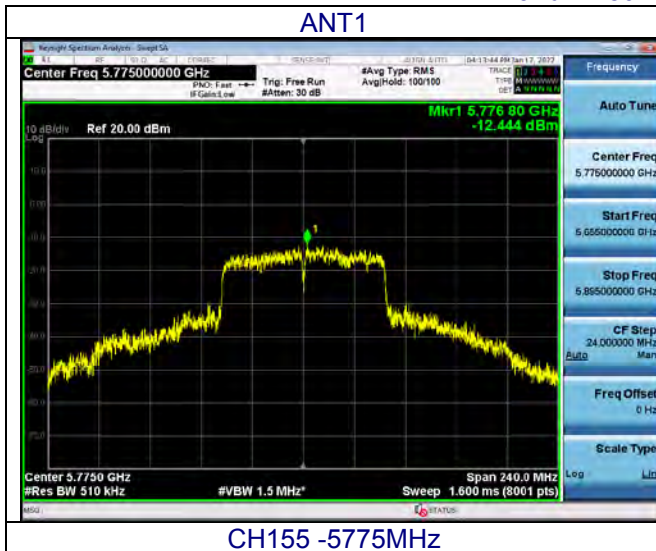
CH151 -5755MHz



CH151 -5755MHz



Band 4- 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	□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.

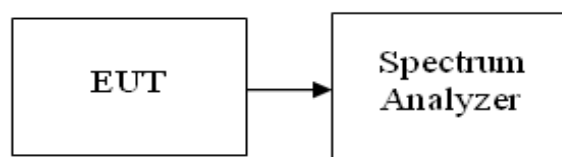
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

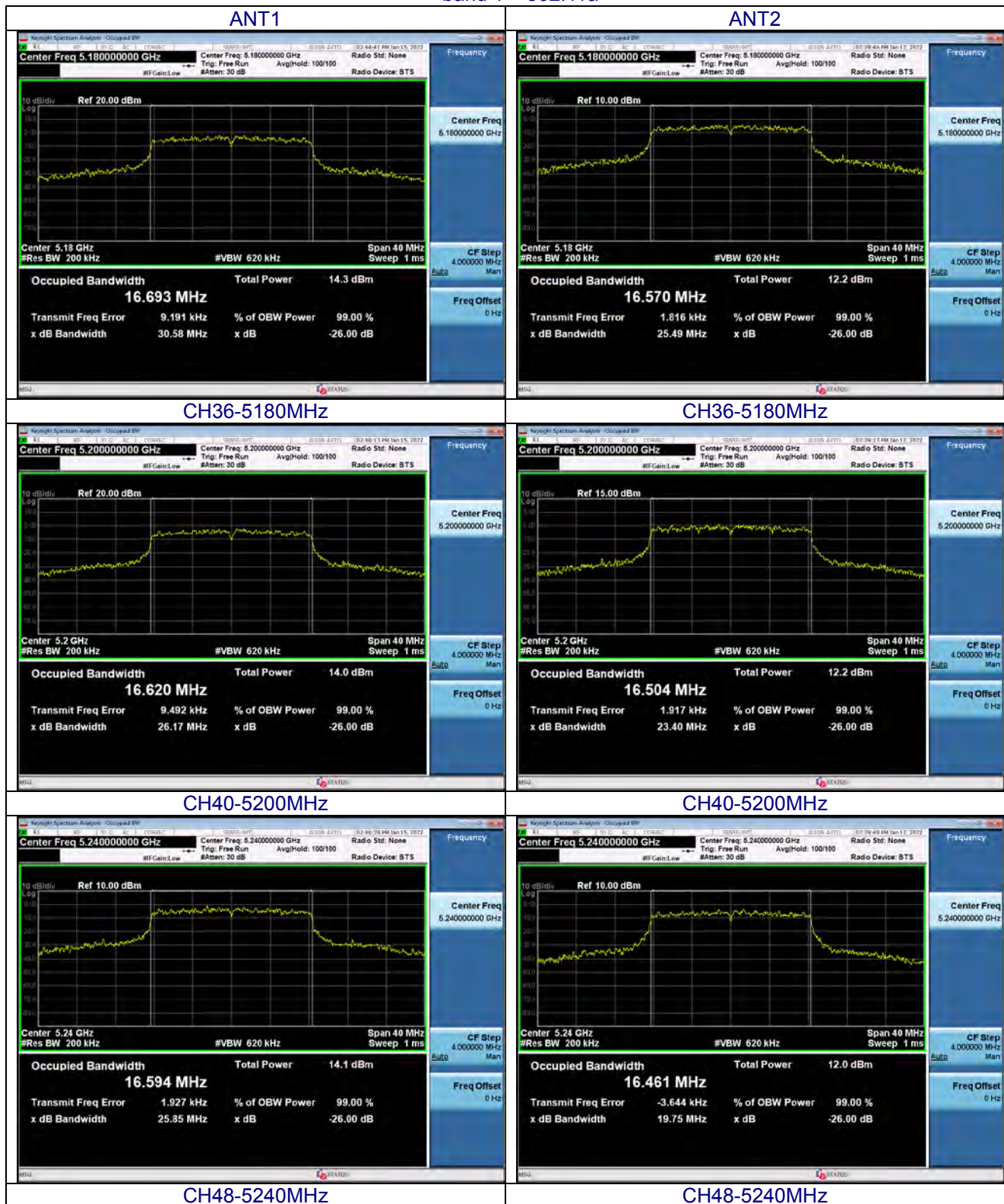
802.11 Mode	Channel No.	Frequency [MHz]	26dB Bandwidth [MHz]		99% Bandwidth [MHz]	
			ANT1	ANT2	ANT1	ANT2
a	36	5180	30.58	25.49	16.693	16.570
	40	5200	26.17	23.40	16.620	16.504
	48	5240	25.85	19.75	16.594	16.461
n (20MHz)	36	5180	30.76	25.43	17.687	17.603
	40	5200	30.17	21.04	17.638	17.581
	48	5240	25.09	20.37	17.664	17.527
n (40MHz)	38	5190	39.29	64.60	36.051	36.600
	46	5230	39.46	65.28	36.019	36.477
ac (20MHz)	36	5180	29.24	22.66	17.682	17.576
	40	5200	28.43	19.41	17.634	17.478
	48	5240	22.55	19.50	17.571	17.494
ac(40MHz)	38	5190	39.88	40.88	36.022	36.300
	46	5230	40.28	40.55	36.062	36.209
ac(80MHz)	42	5210	80.93	85.98	74.901	75.249

BAND 4

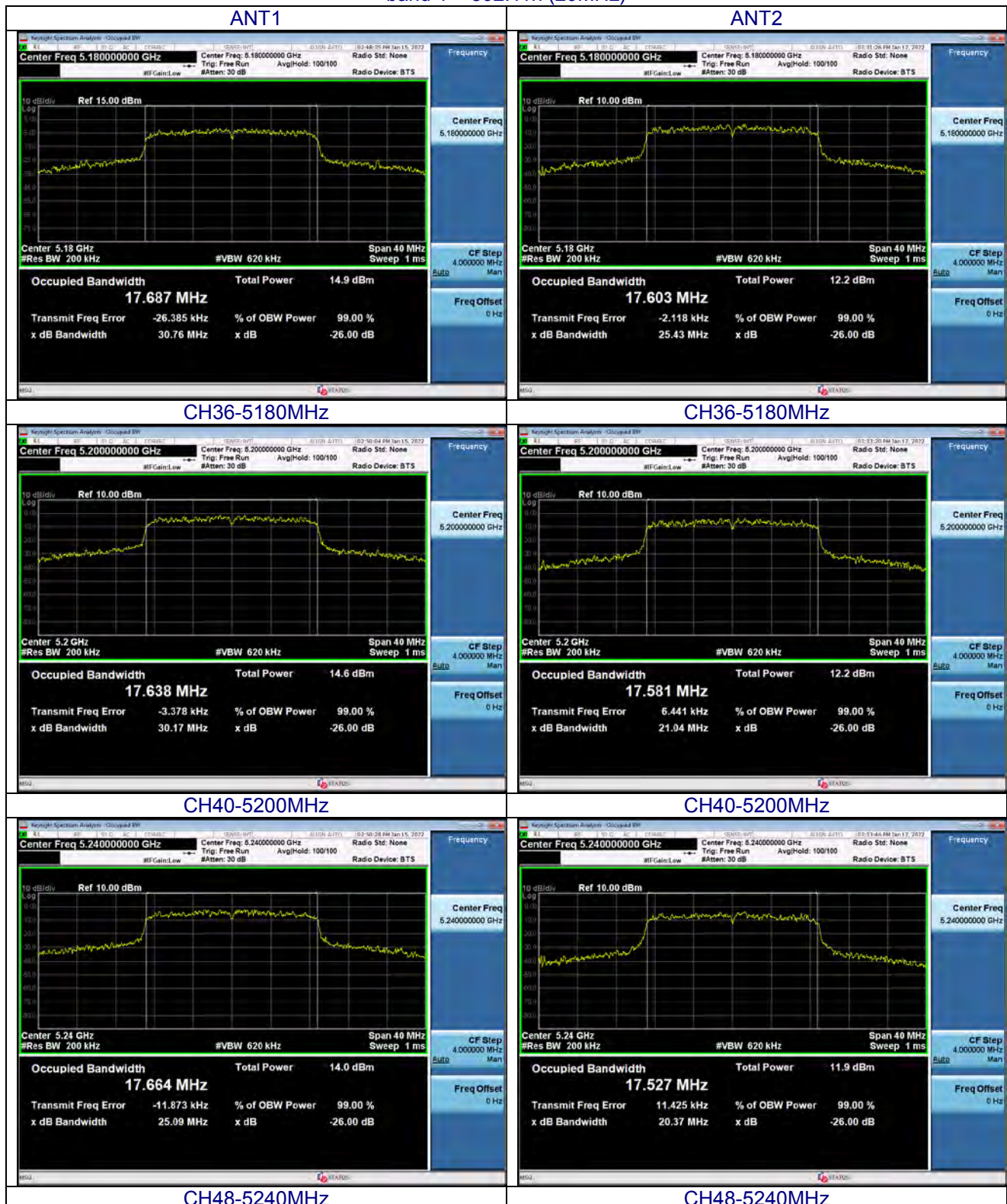
802.11 Mode	Channel No.	Frequency [MHz]	-6db Bandwidth [MHz]		Limit
			ANT1	ANT2	
a	149	5745	16.44	16.42	$\geq 500 \text{ kHz}$
	157	5785	16.44	16.38	
	165	5825	16.38	16.06	
n (20MHz)	149	5745	16.92	17.165	
	157	5785	17.00	16.902	
	165	5825	16.82	16.844	
n (40MHz)	151	5755	35.23	35.285	
	159	5795	35.29	35.282	
ac (20MHz)	149	5745	16.39	16.60	
	157	5785	16.89	16.91	
	165	5825	16.84	16.25	
ac(40MHz)	151	5755	35.67	35.49	
	159	5795	35.41	35.73	
ac(80MHz)	155	5775	74.10	75.11	

Test plot as follows:

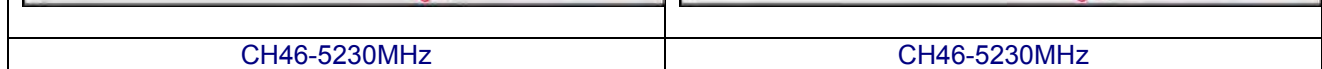
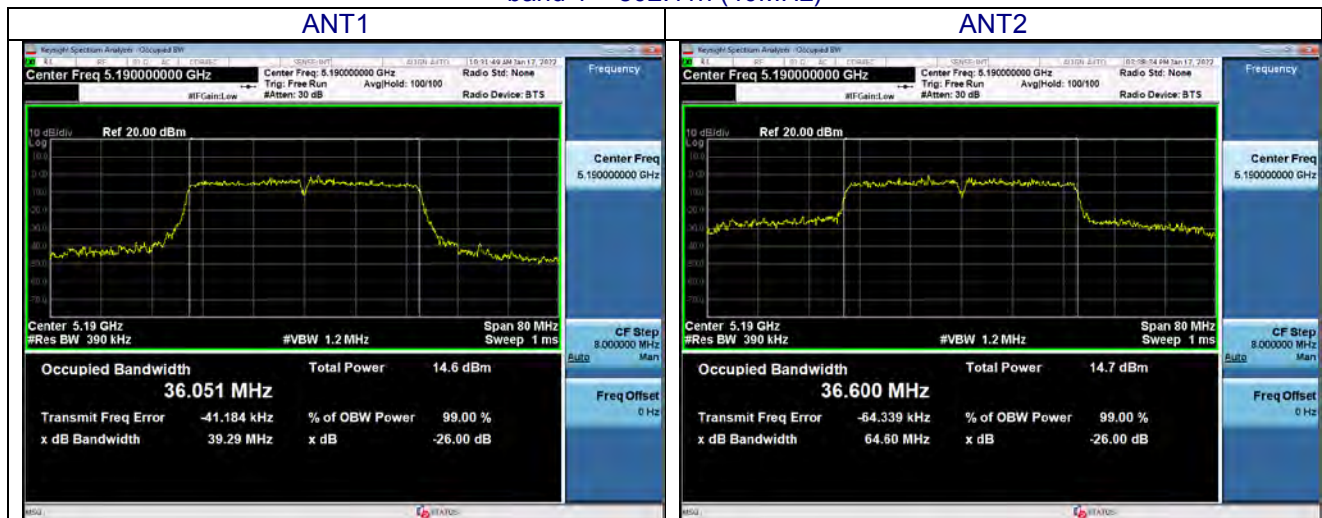
band 1 – 802.11a



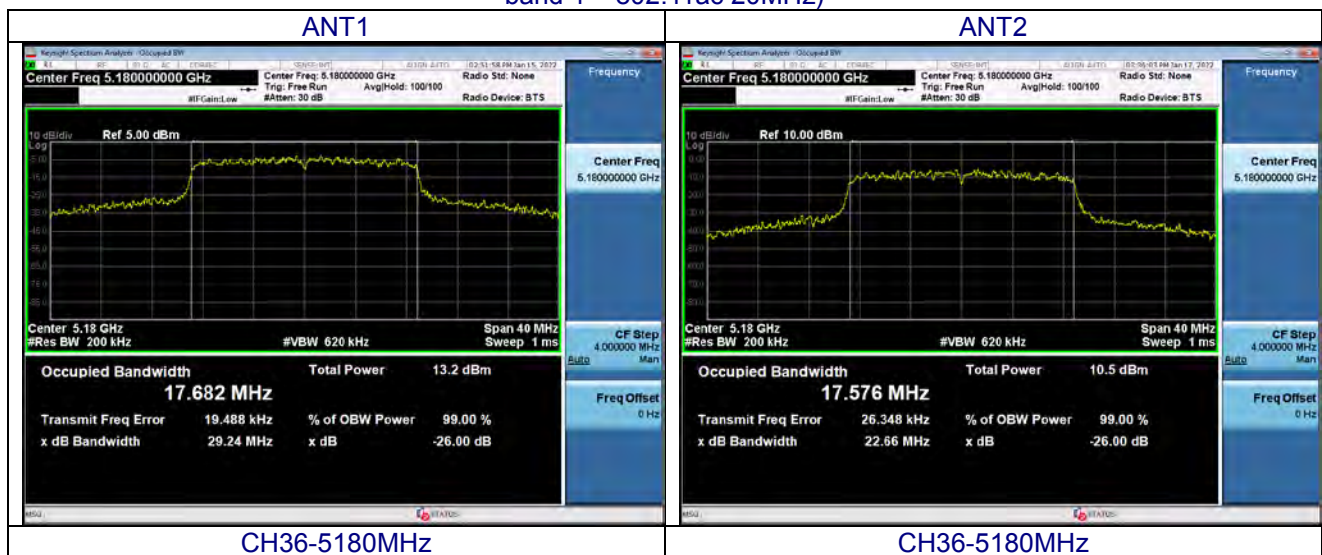
band 1 – 802.11n (20MHz)

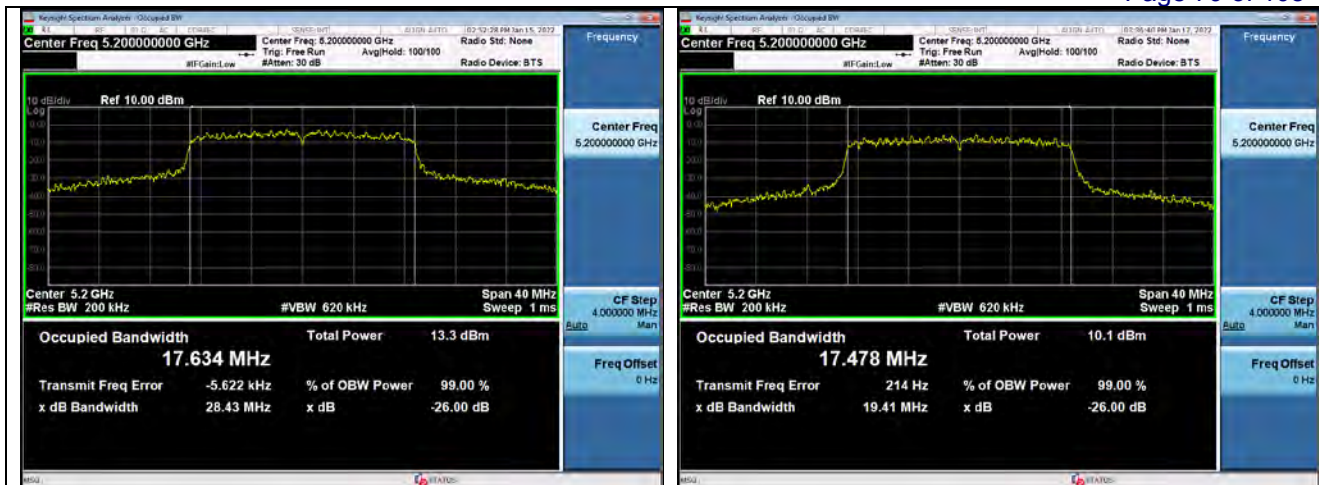


band 1 – 802.11n (40MHz)



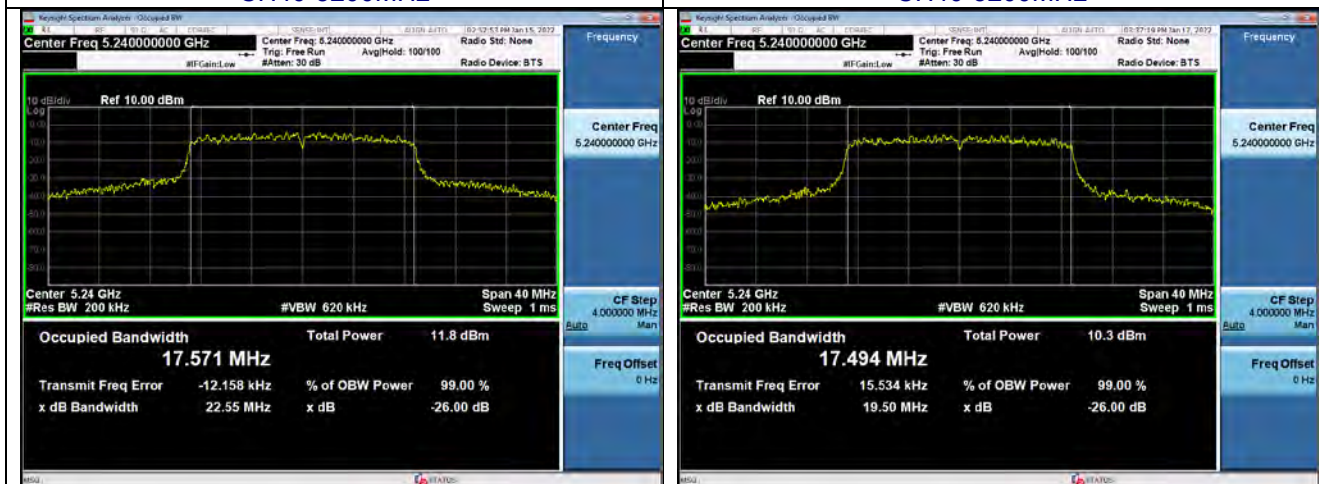
band 1 – 802.11ac 20MHz)





CH40-5200MHz

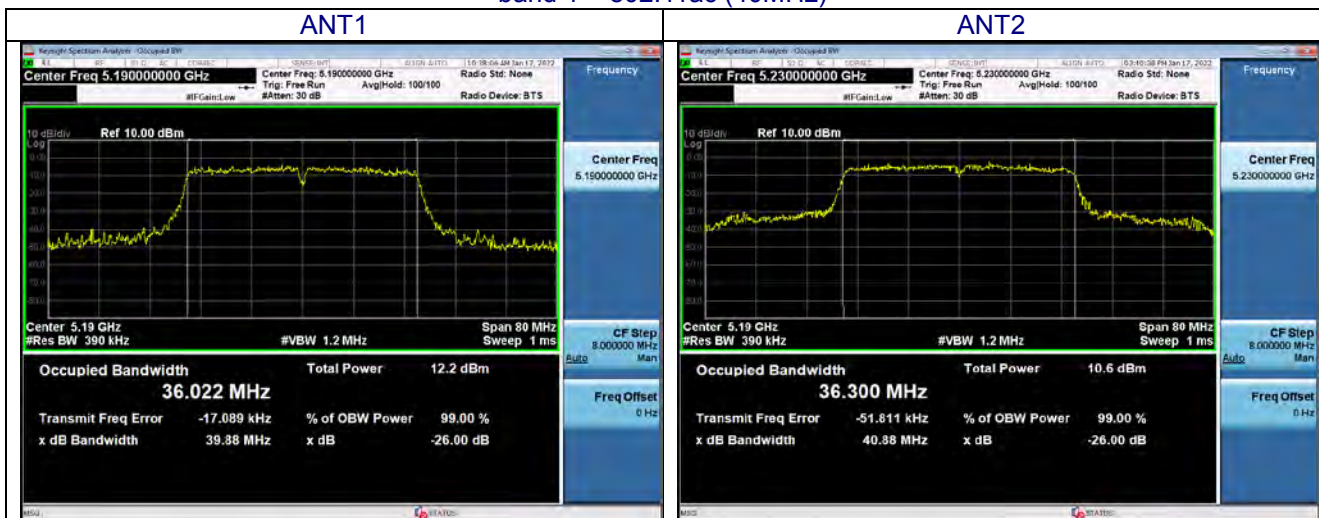
CH40-5200MHz



CH48-5240MHz

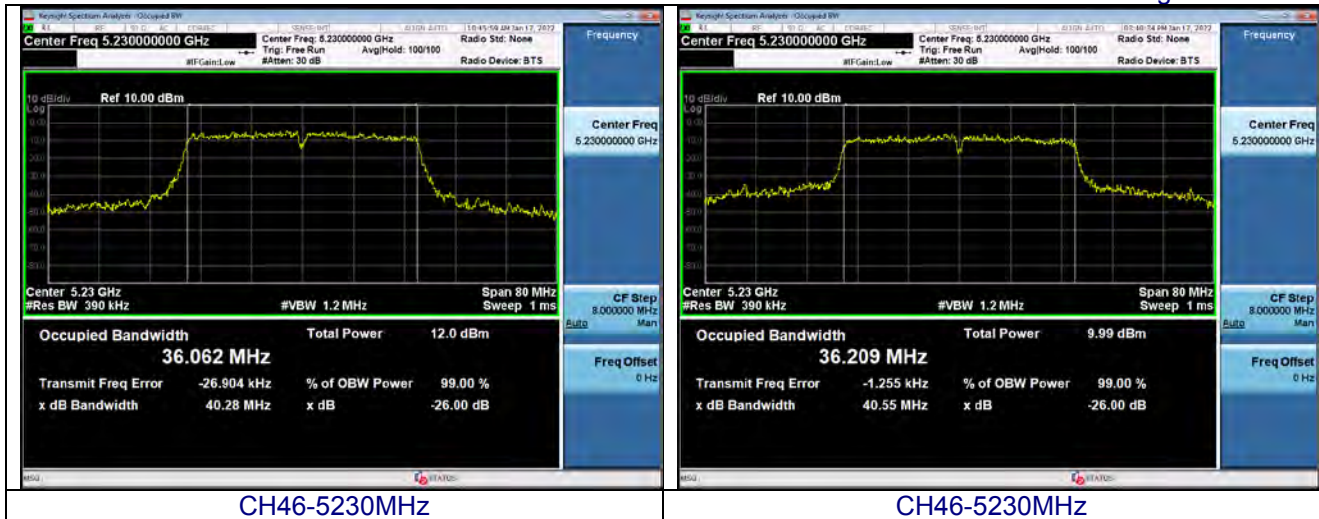
CH48-5240MHz

band 1 – 802.11ac (40MHz)

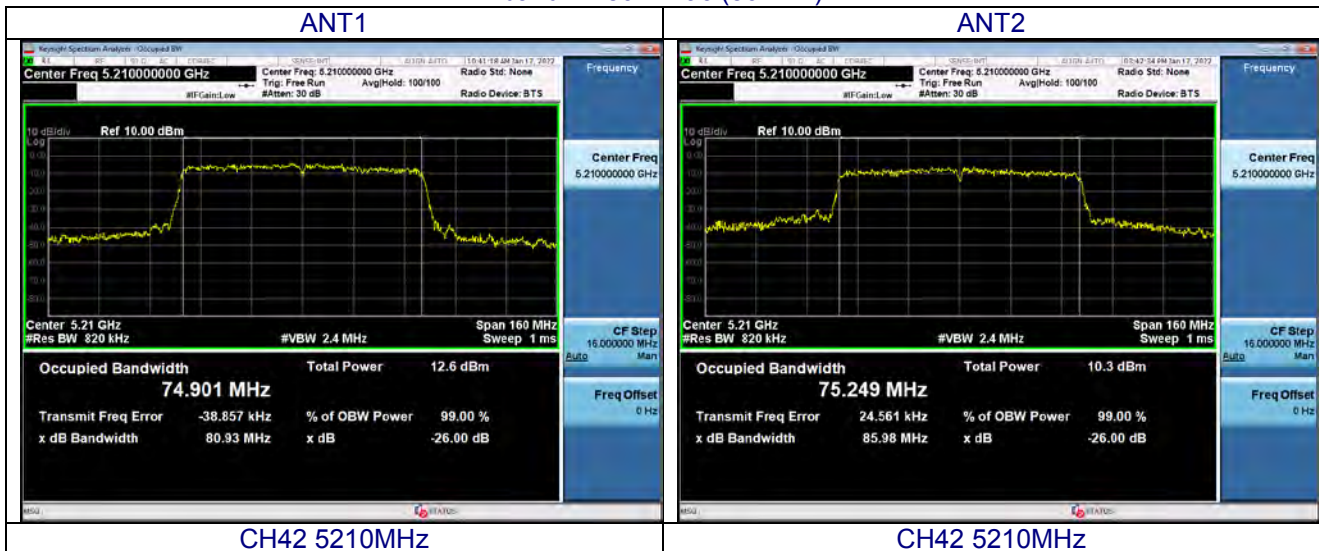


CH38-5190MHz

CH38-5190MHz



band 1 -802.11ac (80MHz)



Band 4 -802.11a

ANT1



ANT2



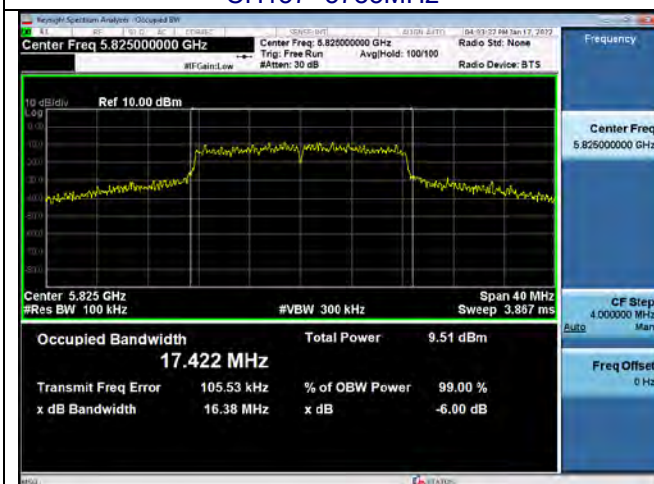
CH149 -5745MHz



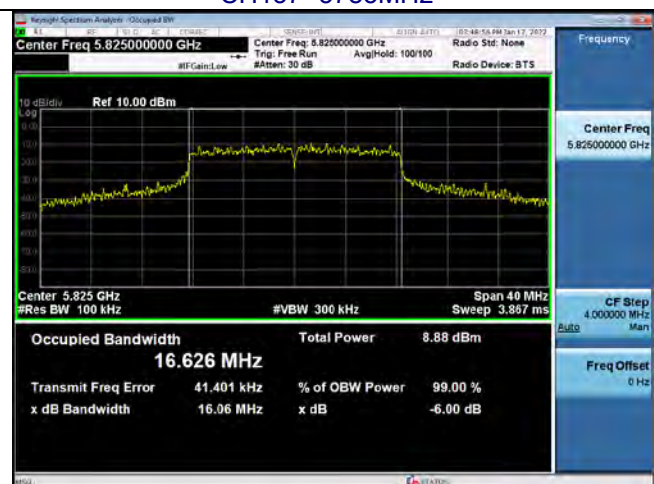
CH149 -5745MHz



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

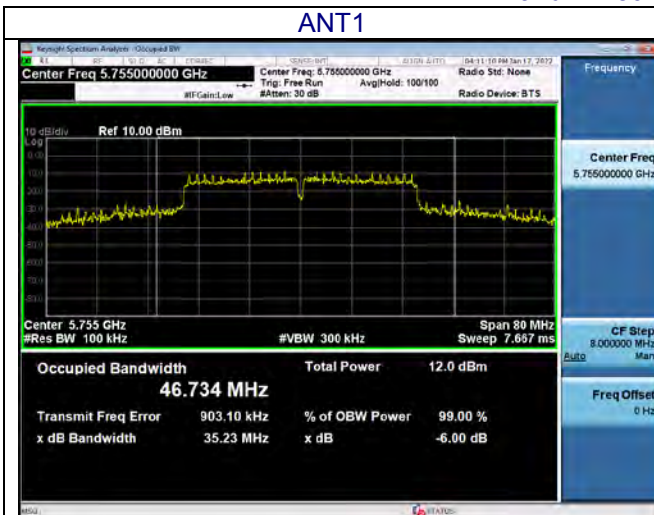


CH165 -5825MHz

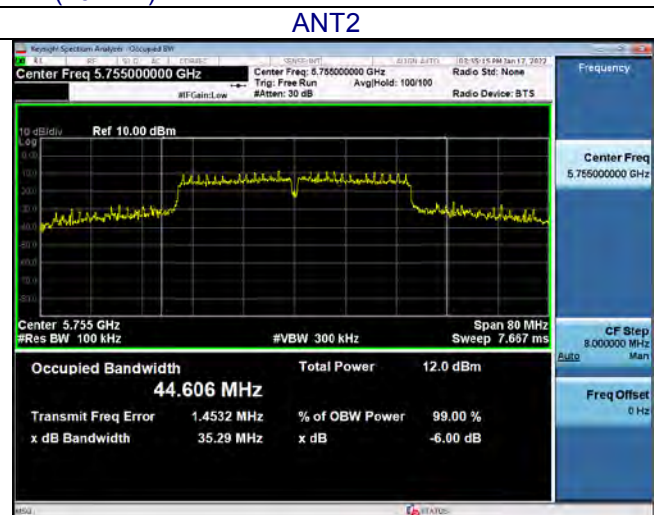


Band 4 – 802.11n (40MHz)

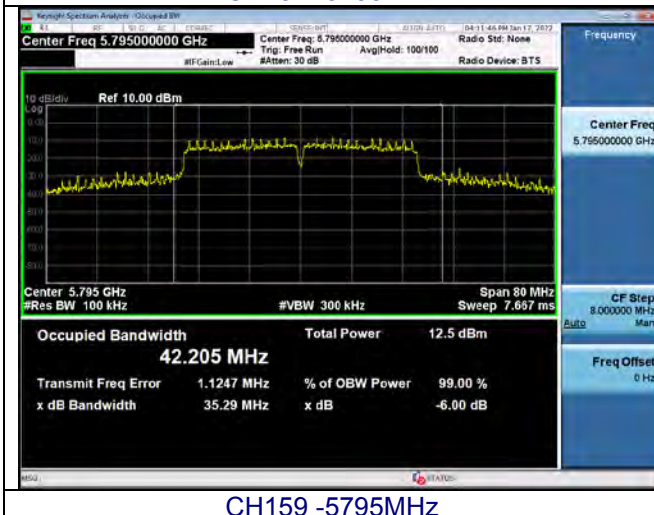
ANT1



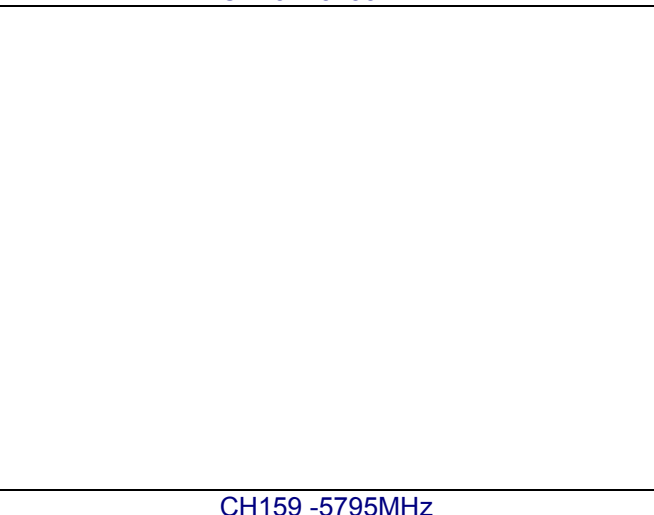
ANT2



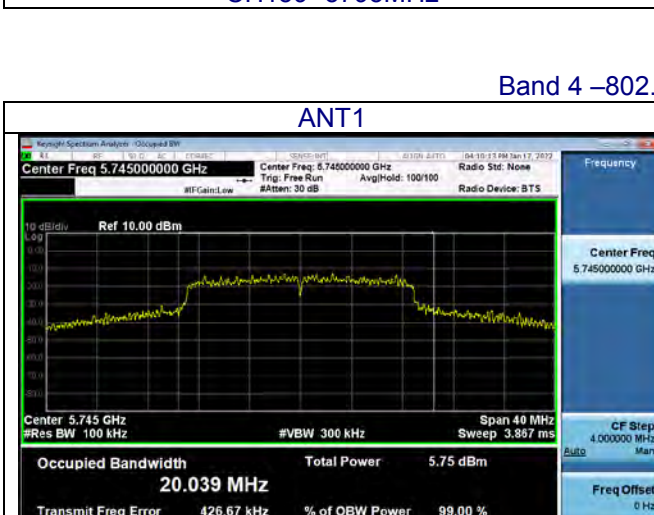
CH151 -5755MHz



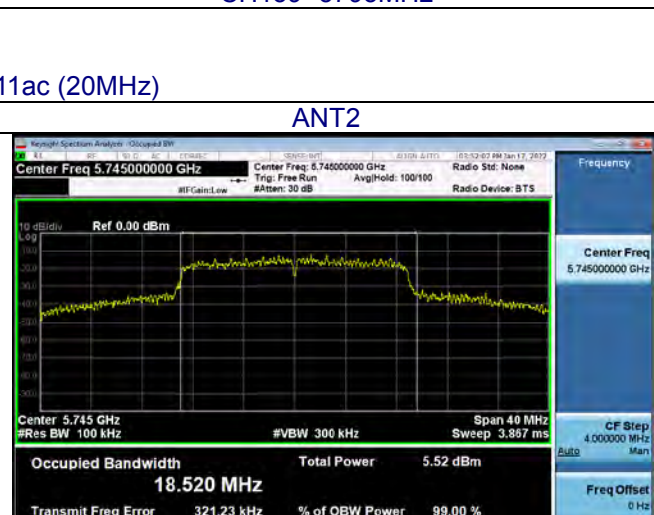
CH151 -5755MHz



CH159 -5795MHz

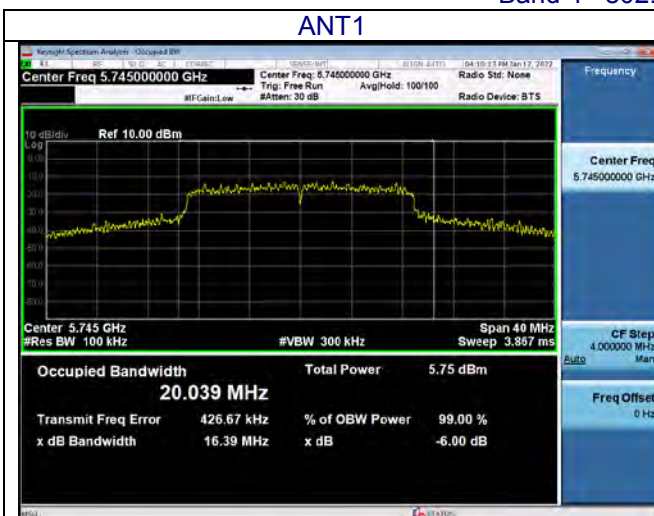


CH159 -5795MHz

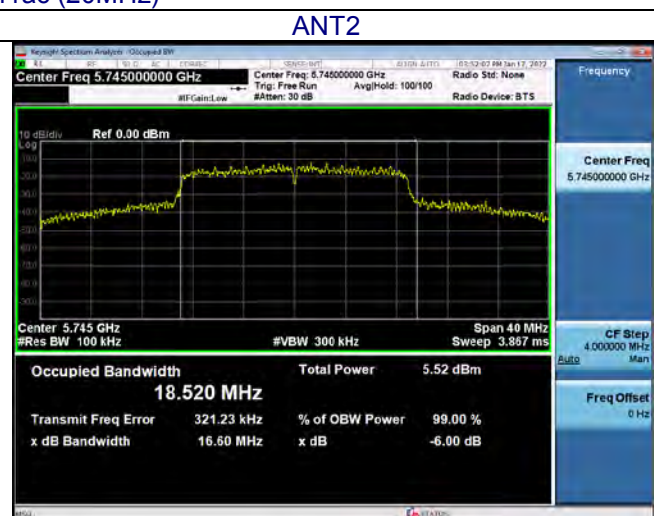


Band 4 – 802.11ac (20MHz)

ANT1



ANT2

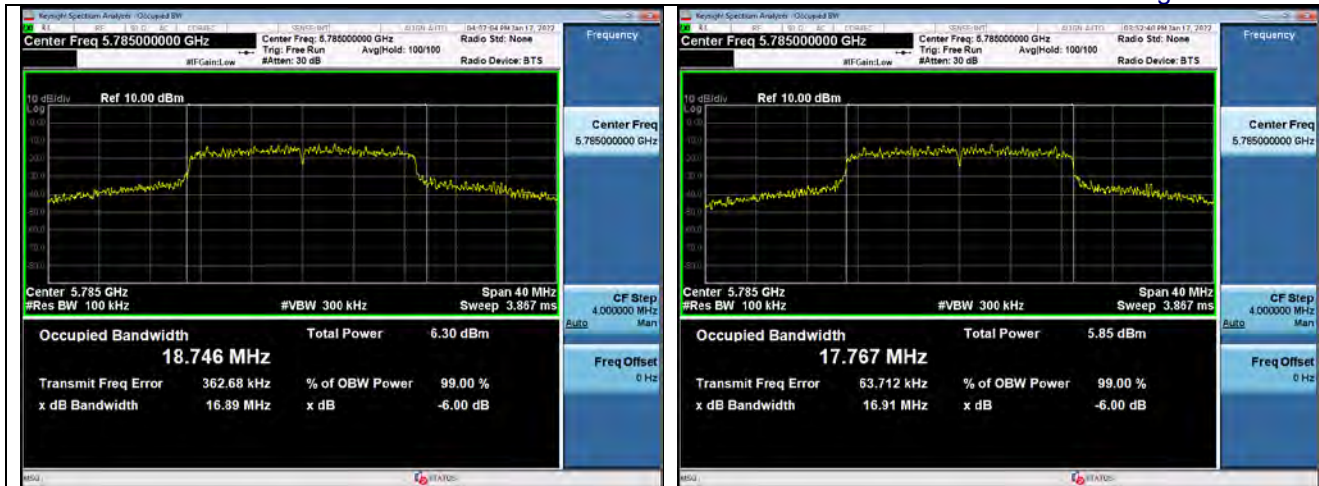


CH149 -5745MHz



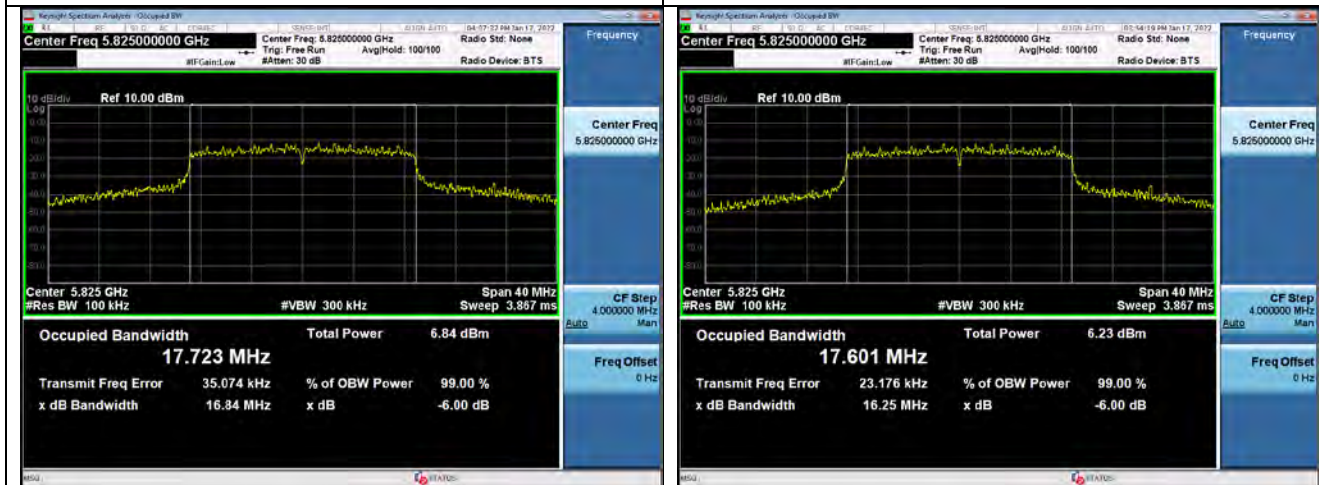
CH149 -5745MHz





CH157 -5785MHz

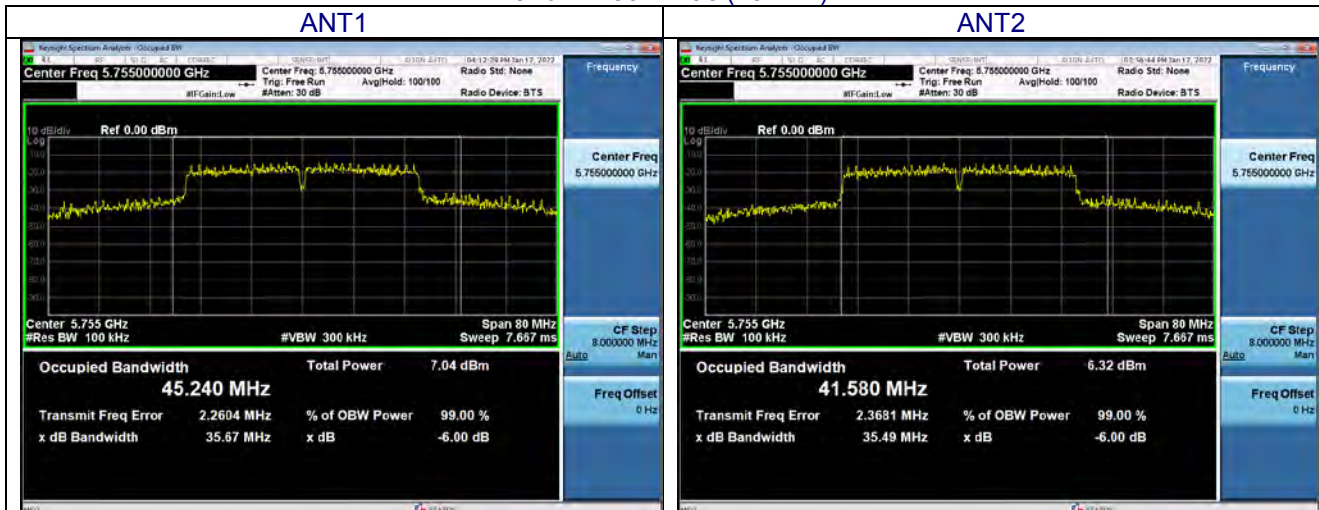
CH157 -5785MHz



CH165 -5825MHz

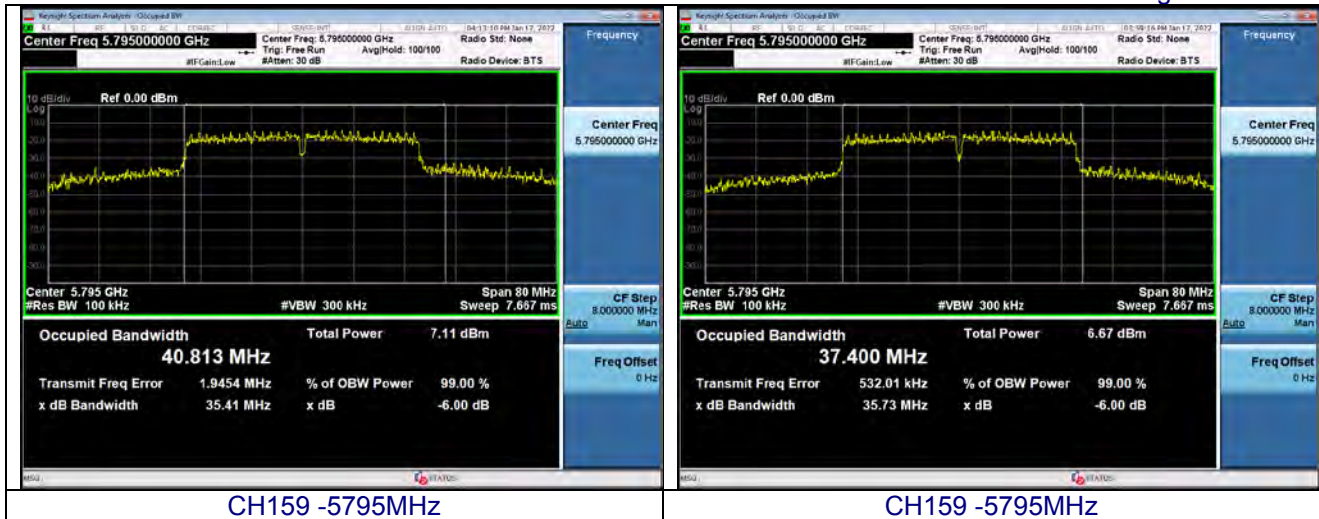
CH165 -5825MHz

Band 4 – 802.11ac (40MHz)

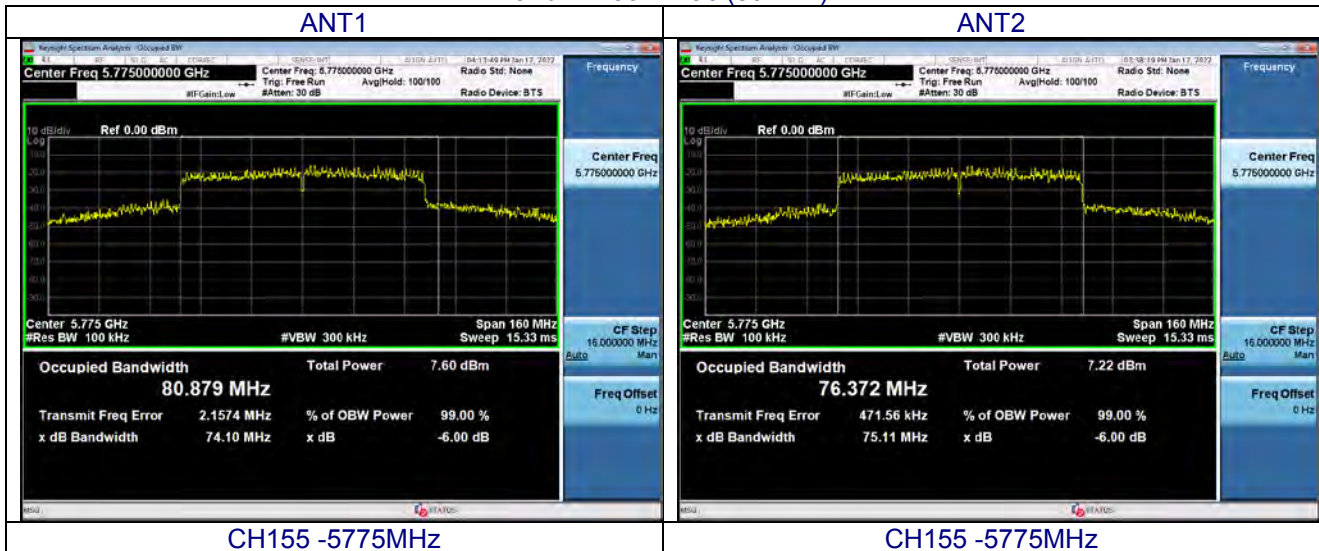


CH151 -5755MHz

CH151 -5755MHz



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 client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi

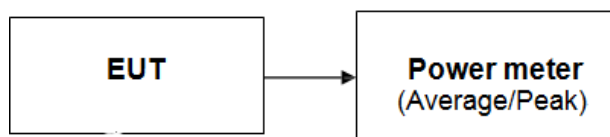
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

Test Item	Limit	Result
Max conducted output power	250 mW / 23.98dbm	Pass
Max conducted output power	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	6.99	6.041	23.98
	40	5200	6.621	6.117	23.98
	48	5240	6.695	6.451	23.98
n(20MHz)	36	5180	7.314	6.693	23.98
	40	5200	7.117	6.752	23.98
	48	5240	6.55	6.167	23.98
n(40MHz)	38	5190	5.859	6.885	23.98
	46	5230	4.674	5.074	23.98
ac(20MHz)	36	5180	5.745	4.747	23.98
	40	5200	5.669	4.506	23.98
	48	5240	4.277	4.49	23.98
ac(40MHz)	38	5190	2.925	2.093	23.98
	46	5230	2.581	2.947	23.98
ac(80MHz)	42	5210	1.893	1.193	23.98

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	6.99	6.041	/	/
	40	5200	6.621	6.117	/	/
	48	5240	6.695	6.451	/	/
n(20MHz)	36	5180	7.314	6.693	10.02	23.98
	40	5200	7.117	6.752	9.95	23.98
	48	5240	6.55	6.167	9.37	23.98
n(40MHz)	38	5190	5.859	6.885	9.41	23.98
	46	5230	4.674	5.074	7.89	23.98
ac(20MHz)	36	5180	5.745	4.747	8.28	23.98
	40	5200	5.669	4.506	8.14	23.98
	48	5240	4.277	4.49	7.40	23.98
ac(40MHz)	38	5190	2.925	2.093	5.54	23.98
	46	5230	2.581	2.947	5.78	23.98
ac(80MHz)	42	5210	1.893	1.193	4.57	23.98

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]		Limit [dBm]
			ANT1	ANT2	
a	149	5745	0.194	-0.542	30.00
	157	5785	0.537	0.101	30.00
	165	5825	0.128	0.23	30.00
n (20MHz)	149	5745	0.45	-0.682	30.00
	157	5785	0.459	-0.502	30.00
	165	5825	0.728	-0.248	30.00

n (40MHz)	151	5755	3.24	2.414	30.00
	159	5795	3.584	3.142	30.00
ac (20MHz)	149	5745	-3.045	-3.575	30.00
	157	5785	-2.67	-3.082	30.00
	165	5825	-2.708	-3.109	30.00
ac(40MHz)	151	5755	-3.42	-4.204	30.00
	159	5795	-3.56	-3.835	30.00
ac(80MHz)	155	5775	-4.161	-4.129	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	0.194	-0.542	/	/
	157	5785	0.537	0.101	/	/
	165	5825	0.128	0.23	/	/
n(20MHz)	149	5745	0.45	-0.682	2.93	30.00
	157	5785	0.459	-0.502	3.02	30.00
	165	5825	0.728	-0.248	3.28	30.00
n(40MHz)	151	5755	3.24	2.414	5.86	30.00
	159	5795	3.584	3.142	6.38	30.00
ac(20MHz)	149	5745	-3.045	-3.575	-0.29	30.00
	157	5785	-2.67	-3.082	0.14	30.00
	165	5825	-2.708	-3.109	0.11	30.00
ac(40MHz)	151	5755	-3.42	-4.204	-0.78	30.00
	159	5795	-3.56	-3.835	-0.69	30.00
ac(80MHz)	155	5775	-4.161	-4.129	-1.13	30.00

8. OUT OF BAND EDGE EMISSION

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

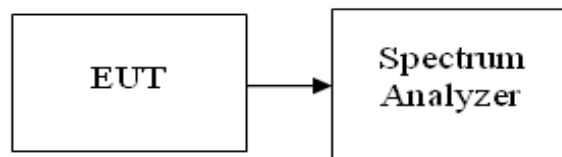
8.1 TEST PROCEDURE

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.

8.2 DEVIATION FROM STANDARD

No deviation.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

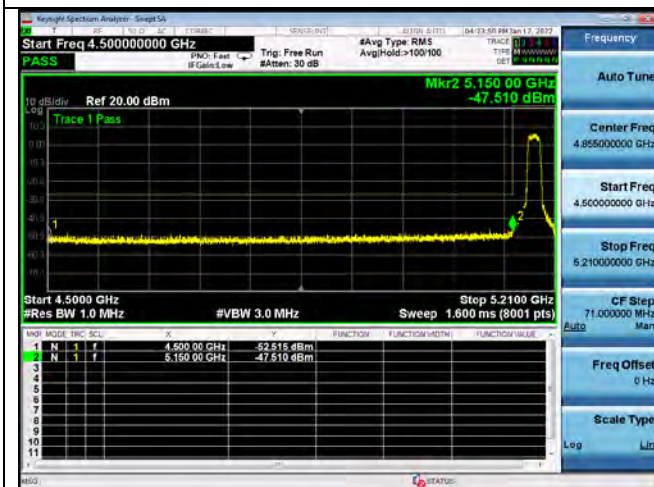
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Test plot as follows:

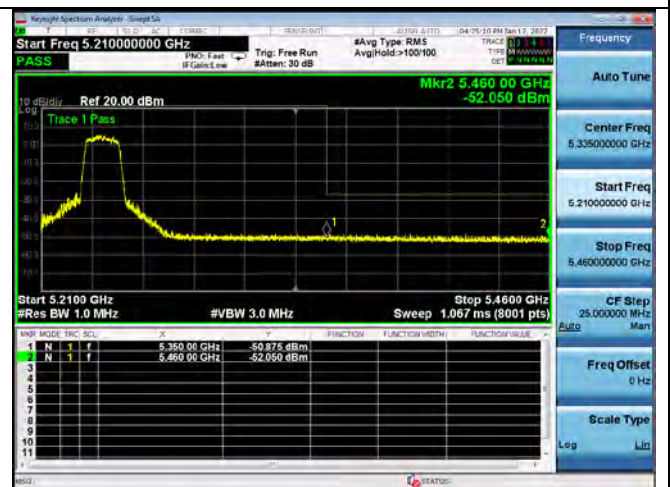
ANT1-band1

Test mode:



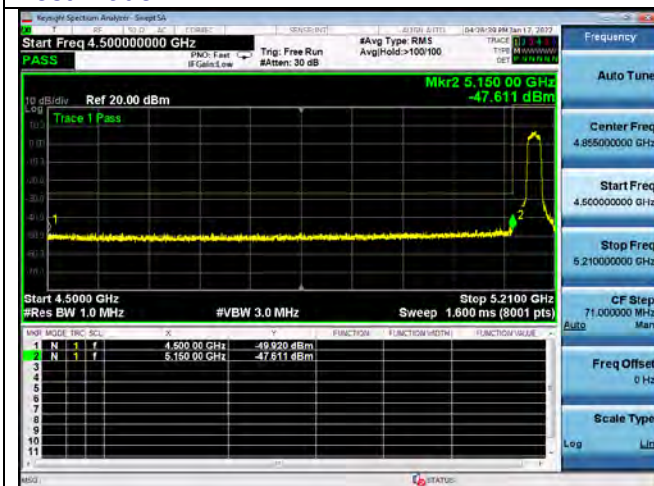
Lowest channel

802.11a



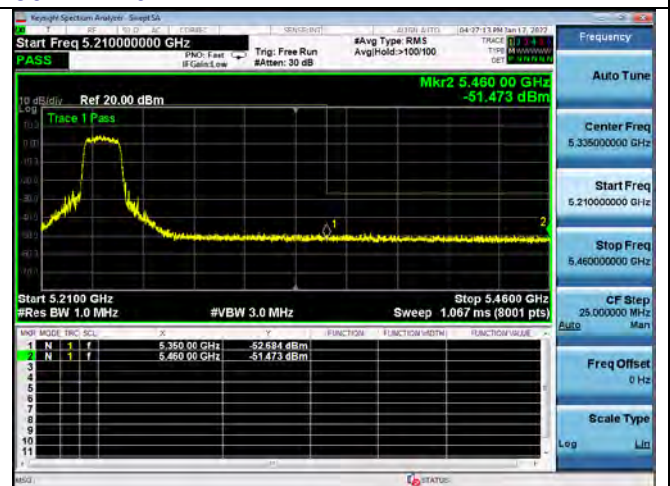
Highest channel

Test mode:



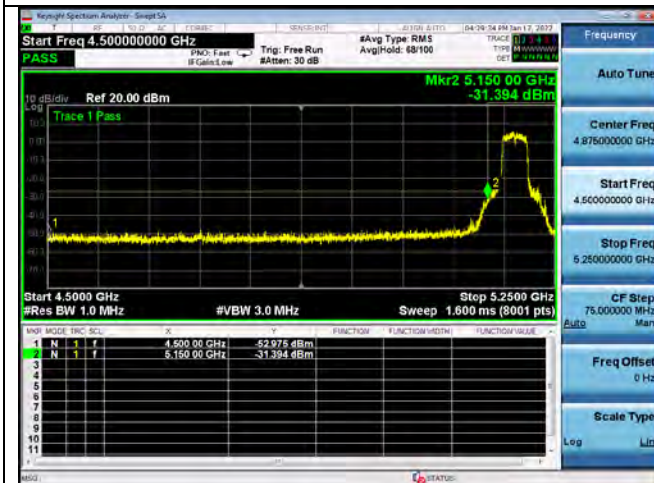
Lowest channel

802.11n20



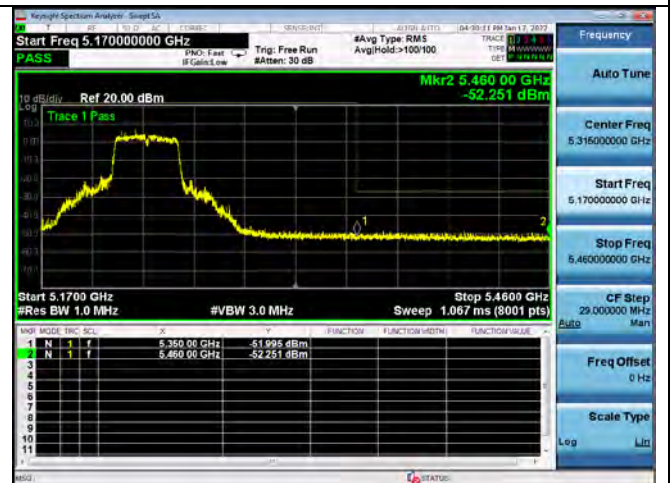
Highest channel

Test mode:



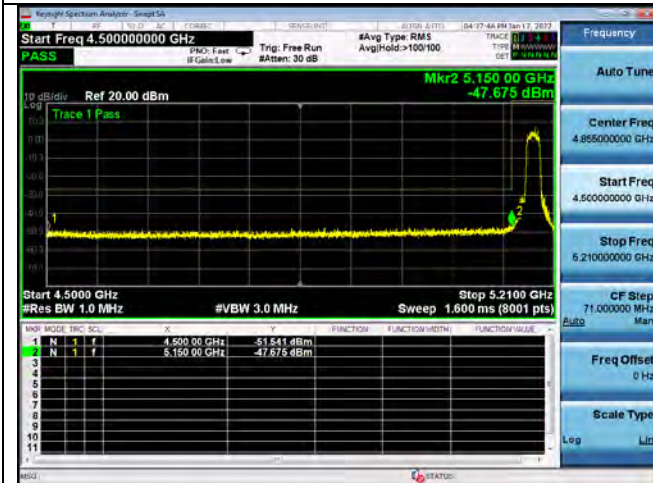
Lowest channel

802.11n40



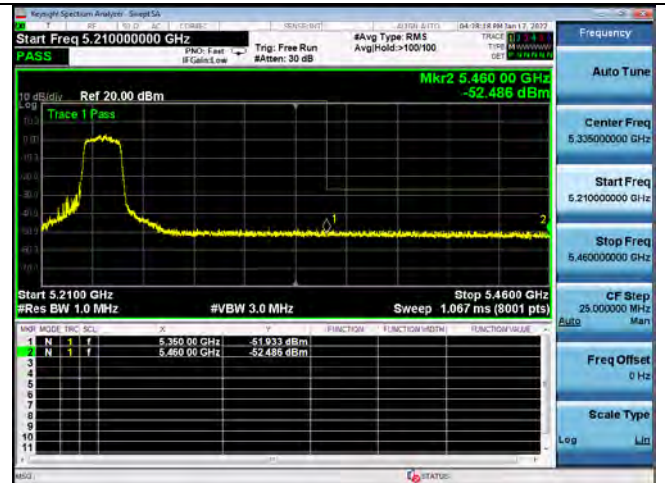
Highest channel

Test mode:



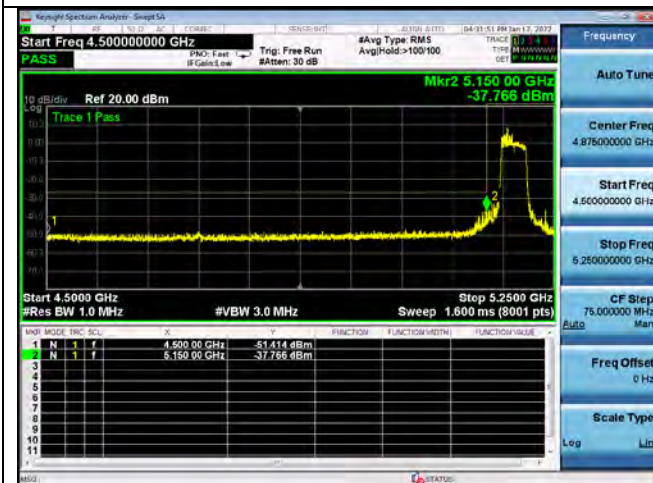
Lowest channel

802.11ac20



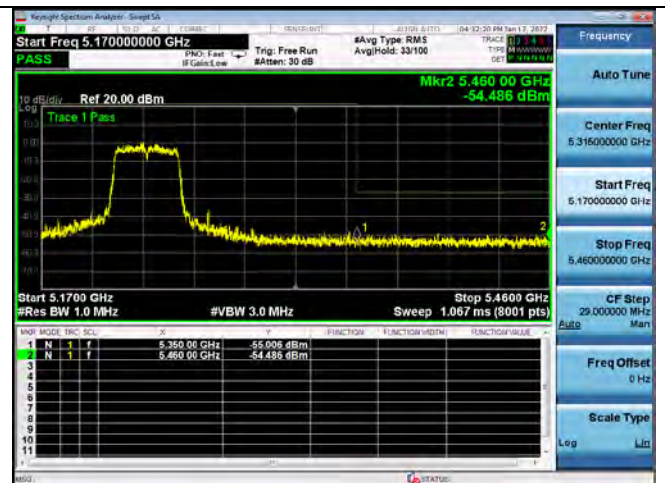
Highest channel

Test mode:



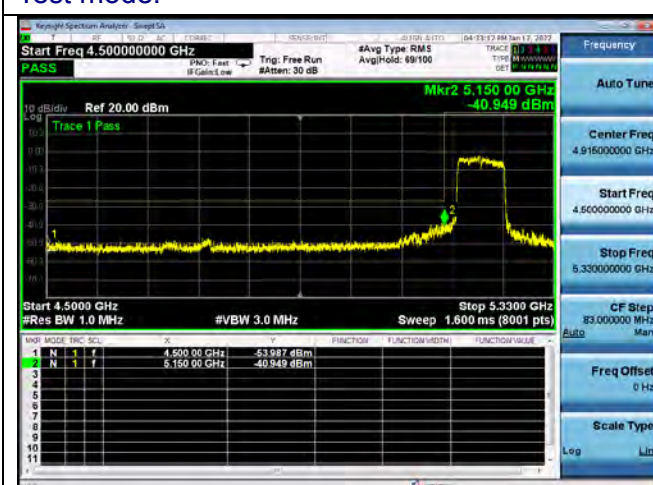
Lowest channel

802.11ac40



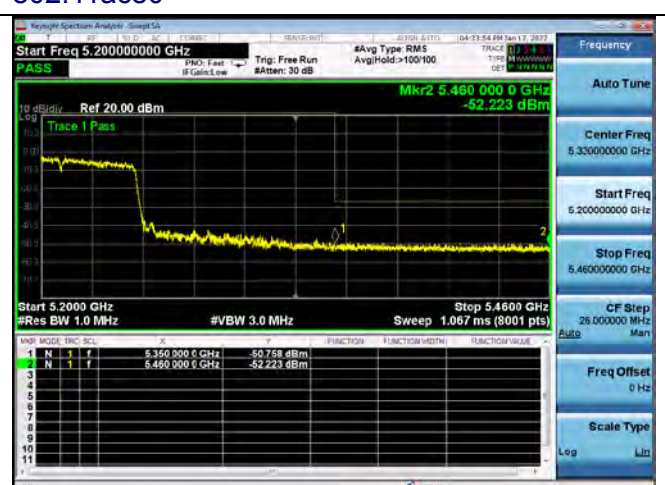
Highest channel

Test mode:



Lowest channel

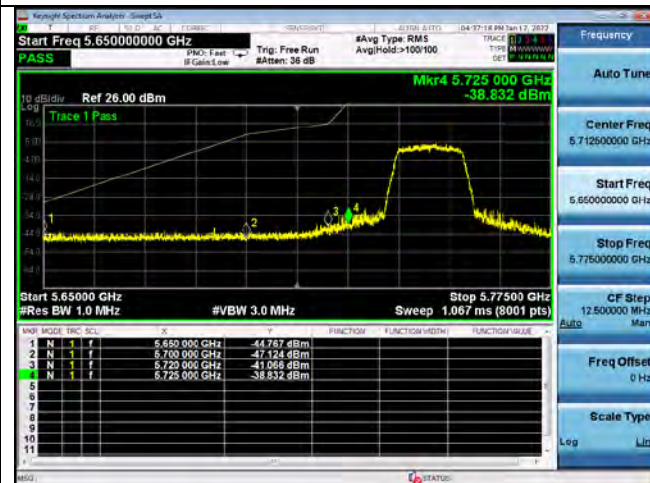
802.11ac80



Highest channel

ANT1-band 4

Test mode:



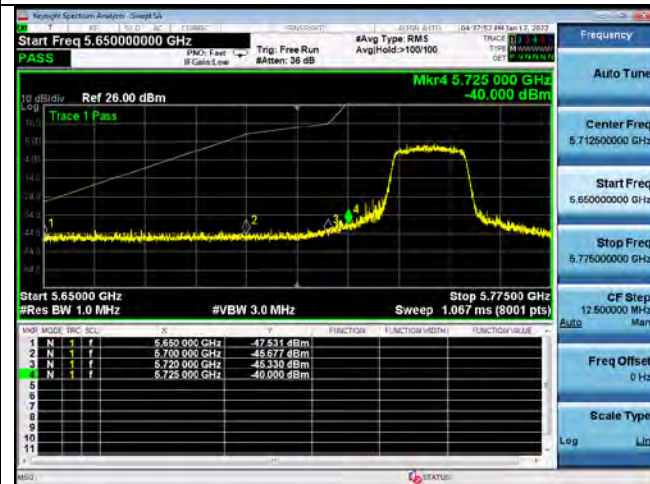
Lowest channel

802.11a



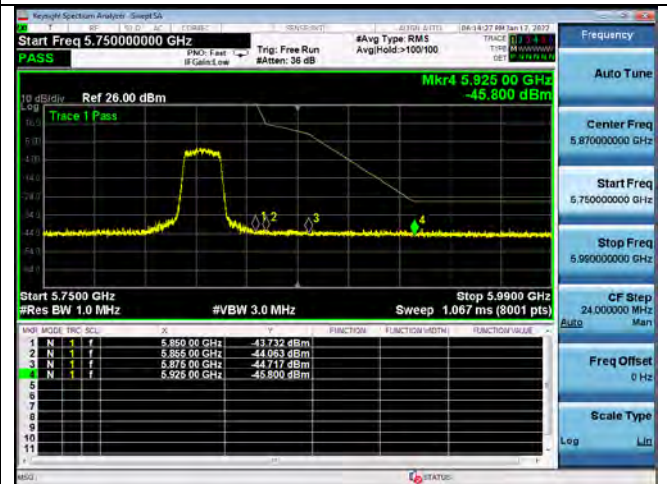
Highest channel

Test mode:



Lowest channel

802.11n20



Highest channel

Test mode:



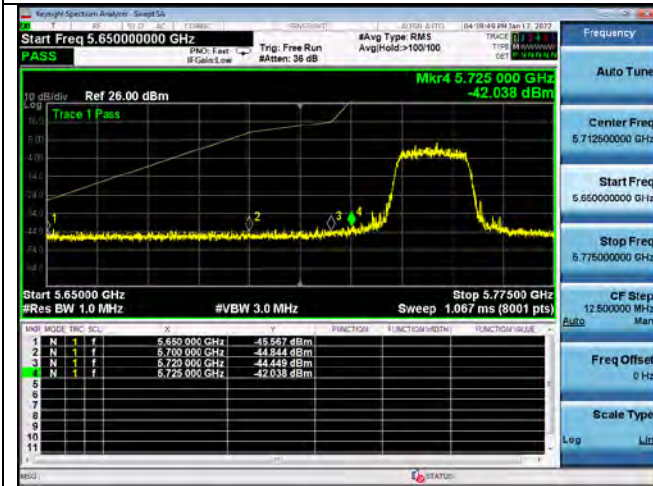
Lowest channel

802.11n40



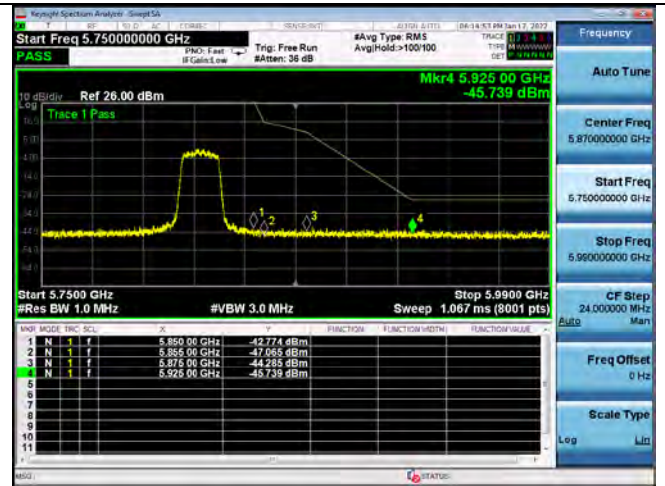
Highest channel

Test mode:



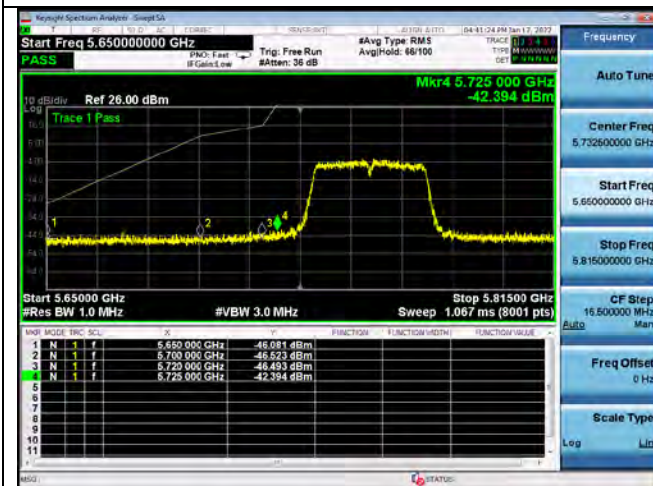
Lowest channel

802.11ac20



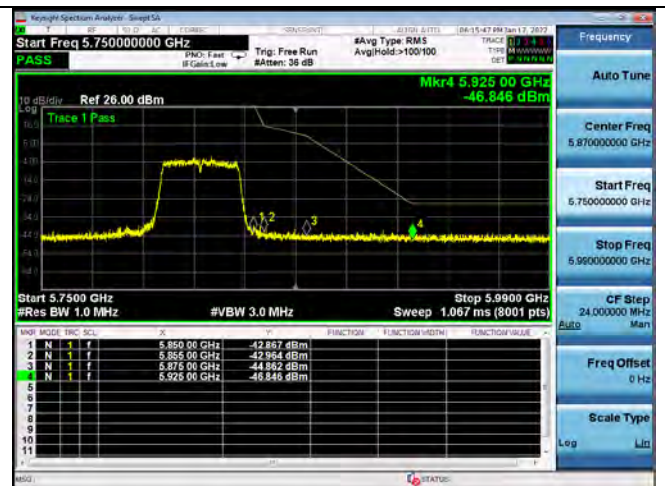
Highest channel

Test mode:



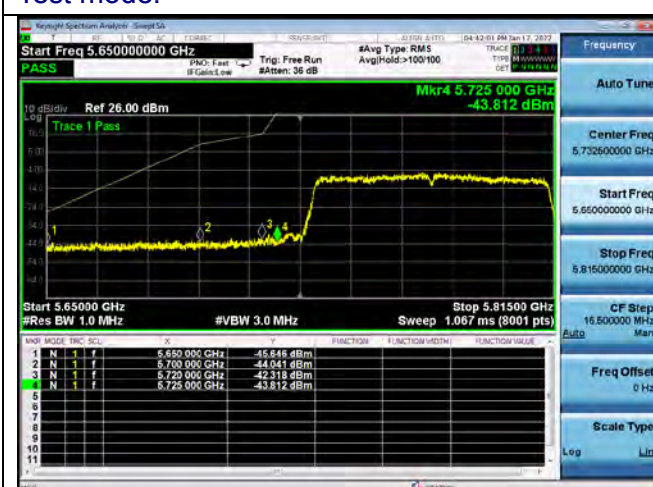
Lowest channel

802.11ac40



Highest channel

Test mode:



Lowest channel

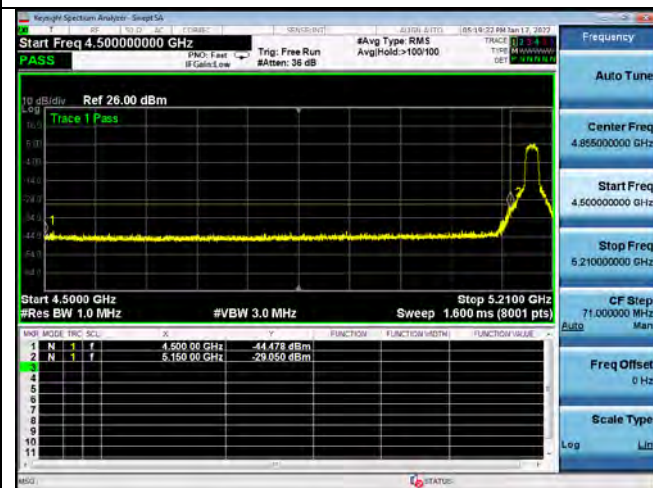
802.11ac80



Highest channel

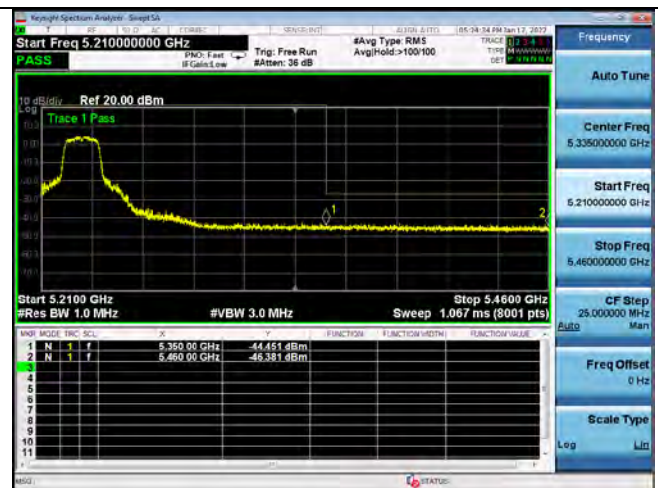
ANT2-band1

Test mode:



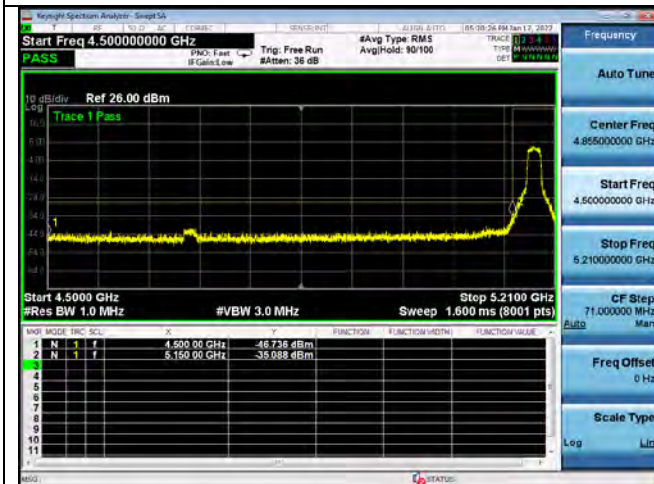
Lowest channel

802.11a



Highest channel

Test mode:



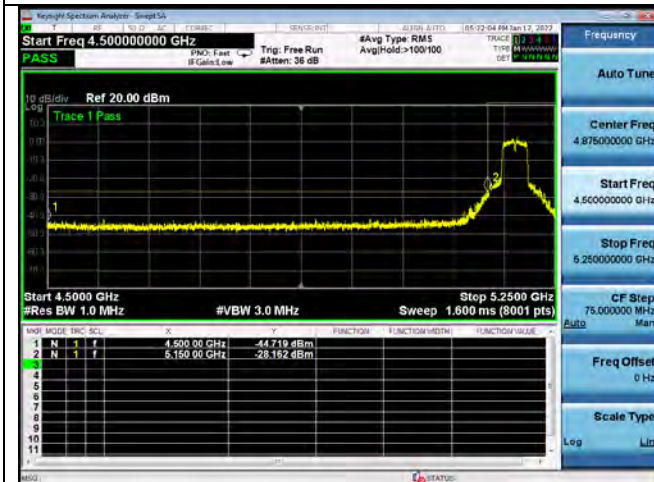
Lowest channel

802.11n20



Highest channel

Test mode:



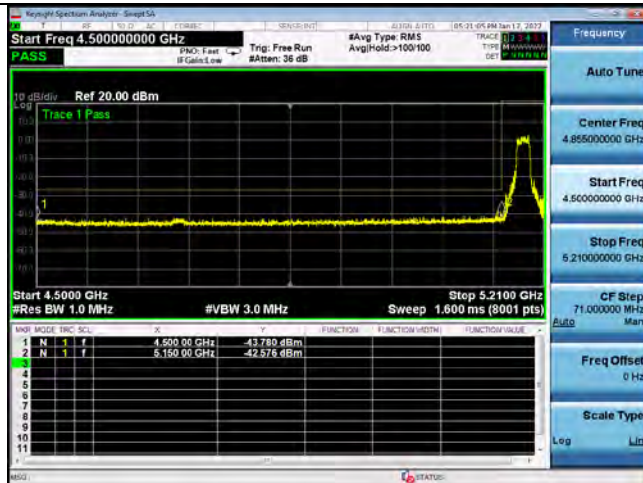
Lowest channel

802.11n40



Highest channel

Test mode:

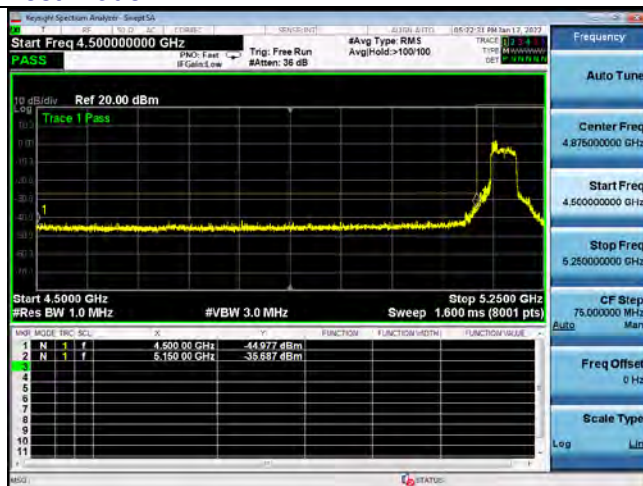


Lowest channel

802.11ac20

Highest channel

Test mode:



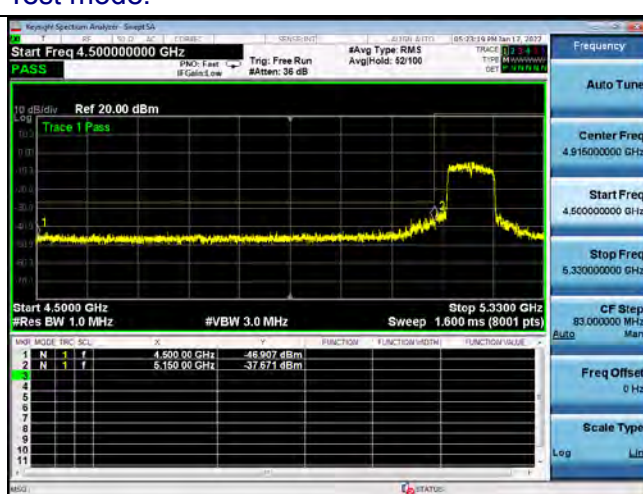
Lowest channel

802.11ac40

Highest channel



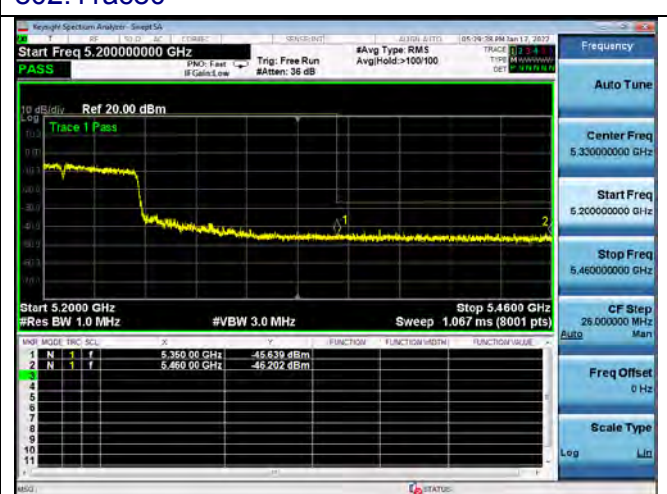
Test mode:



Lowest channel

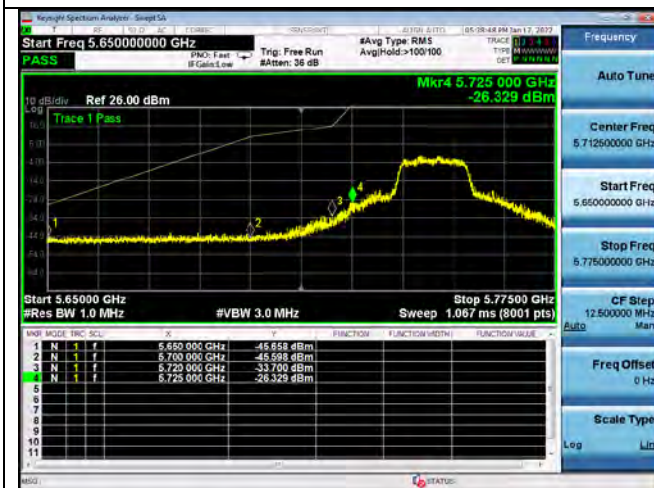
802.11ac80

Highest channel



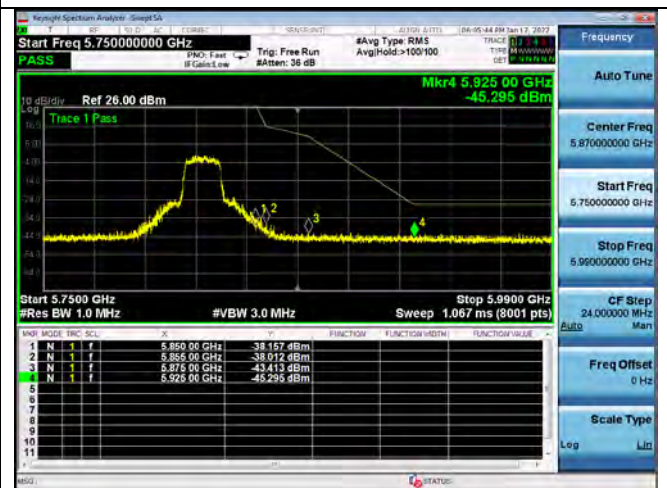
ANT2-band 4

Test mode:



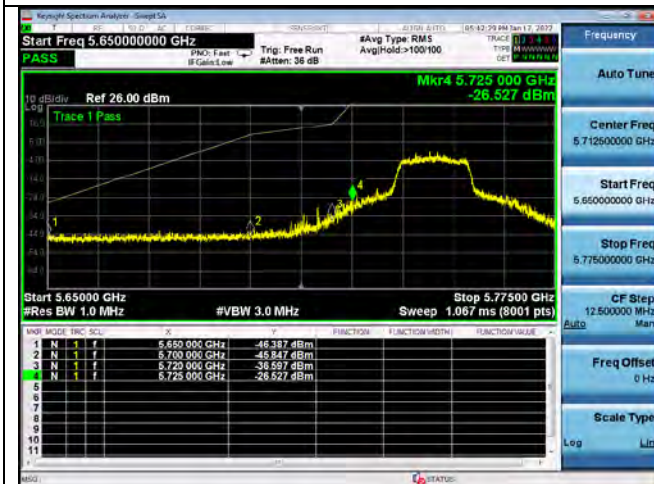
Lowest channel

802.11a



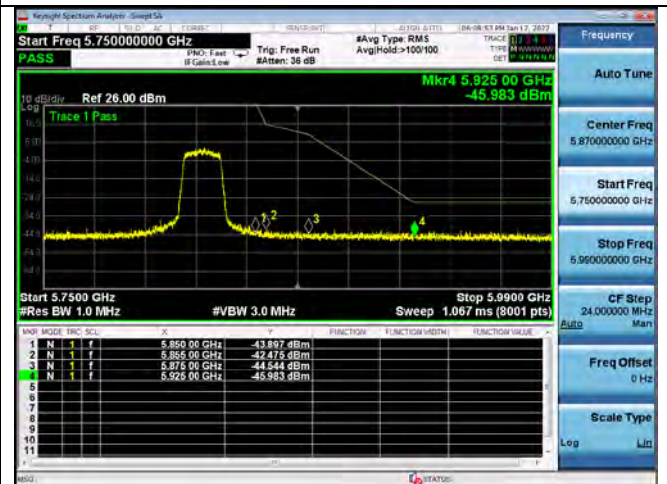
Highest channel

Test mode:



Lowest channel

802.11n20



Highest channel

Test mode:



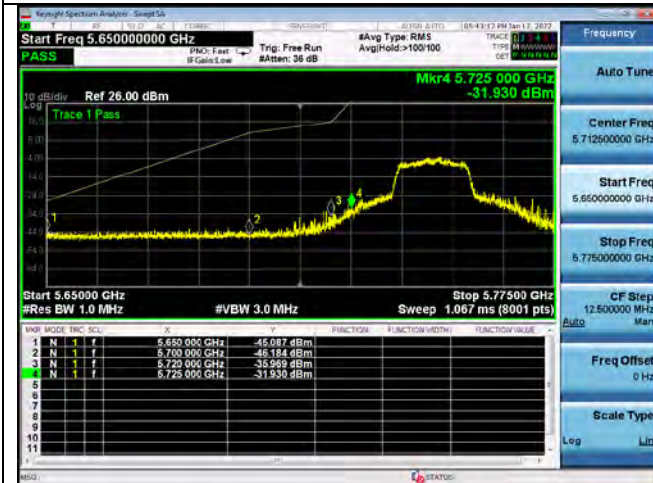
Lowest channel

802.11n40



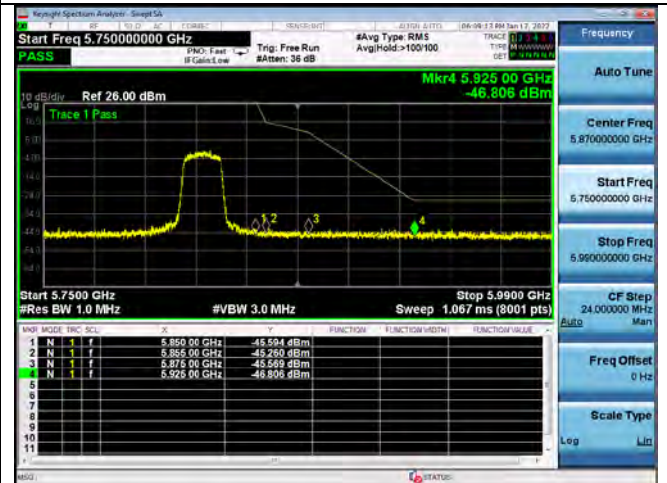
Highest channel

Test mode:



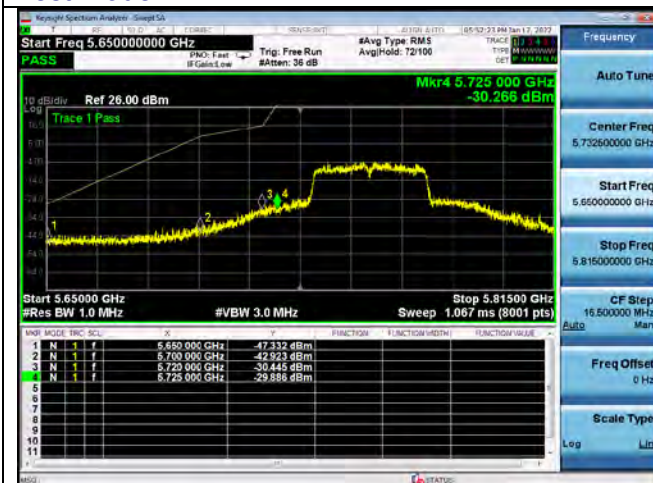
Lowest channel

802.11ac20



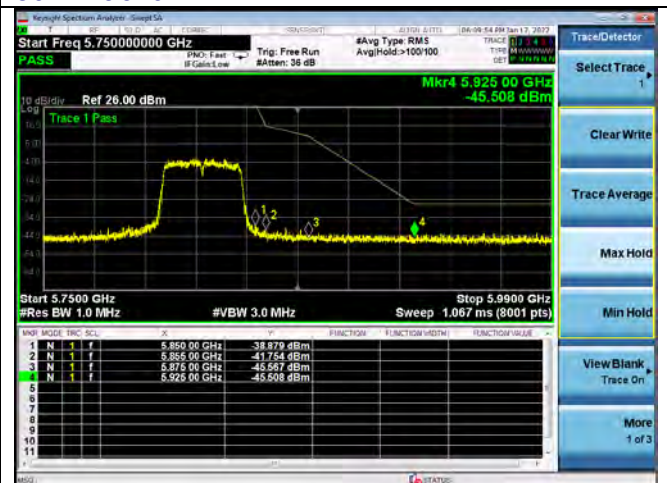
Highest channel

Test mode:



Lowest channel

802.11ac40



Highest channel

Test mode:



Lowest channel

802.11ac80



Highest channel

9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

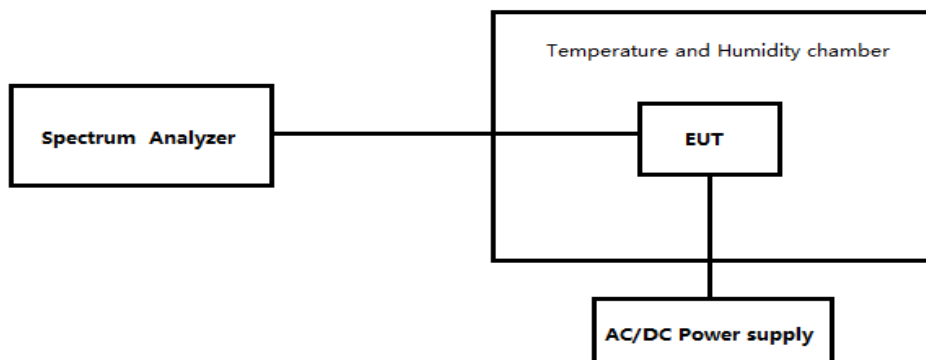
According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of

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°C	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	77	0.0148
40	120	74	0.0143

30	120	83	0.0160
20	120	92	0.0178
10	120	83	0.0161
0	120	83	0.0161
-10	120	76	0.0146
-20	120	82	0.0158
-30	120	72	0.0140

ANT1-802.11a- CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	91	0.0174
40	120	76	0.0146
30	120	90	0.0171
20	120	74	0.0141
10	120	80	0.0153
0	120	98	0.0188
-10	120	94	0.0180
-20	120	80	0.0152
-30	120	76	0.0145

ANT1-802.11a- CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	80	0.0139
40	120	89	0.0155
30	120	76	0.0132
20	120	84	0.0147
10	120	88	0.0153
0	120	76	0.0132
-10	120	72	0.0125
-20	120	92	0.0160
-30	120	83	0.0144

ANT1-802.11a- CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)

50	120	71	0.0121
40	120	96	0.0165
30	120	86	0.0147
20	120	82	0.0141
10	120	93	0.0159
0	120	82	0.0141
-10	120	80	0.0138
-20	120	89	0.0153
-30	120	93	0.0159

ANT1-802.11n20- CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	95	0.0183
40	120	71	0.0137
30	120	96	0.0186
20	120	80	0.0154
10	120	87	0.0168
0	120	94	0.0181
-10	120	80	0.0155
-20	120	86	0.0165
-30	120	82	0.0157

ANT1-802.11n20- CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	81	0.0155
40	120	98	0.0186
30	120	88	0.0168
20	120	93	0.0178
10	120	88	0.0169
0	120	80	0.0153
-10	120	78	0.0149
-20	120	76	0.0145
-30	120	79	0.0151

ANT1-802.11n20- CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	98	0.0170
40	120	70	0.0123
30	120	89	0.0155
20	120	84	0.0147
10	120	77	0.0133
0	120	93	0.0163
-10	120	84	0.0147
-20	120	93	0.0161
-30	120	95	0.0165

ANT1-802.11n20- CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	91	0.0156
40	120	74	0.0127
30	120	99	0.0171
20	120	98	0.0168
10	120	77	0.0133
0	120	71	0.0121
-10	120	71	0.0122
-20	120	98	0.0168
-30	120	95	0.0163

ANT1-802.11n40- CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	77	0.0148
40	120	79	0.0153
30	120	81	0.0156
20	120	83	0.0159
10	120	95	0.0183
0	120	81	0.0157
-10	120	91	0.0175
-20	120	90	0.0173
-30	120	86	0.0165

ANT1-802.11n40- CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	93	0.0177
40	120	84	0.0160
30	120	77	0.0148
20	120	95	0.0181
10	120	93	0.0177
0	120	71	0.0136
-10	120	95	0.0181
-20	120	96	0.0183
-30	120	77	0.0147

ANT1-802.11n40- CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	78	0.0136
40	120	77	0.0135
30	120	89	0.0155
20	120	91	0.0158
10	120	89	0.0155
0	120	93	0.0162
-10	120	75	0.0130
-20	120	97	0.0169
-30	120	80	0.0139

ANT1-802.11n40- CH159

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	84	0.0145
40	120	96	0.0166
30	120	94	0.0161
20	120	100	0.0172
10	120	78	0.0134
0	120	87	0.0150
-10	120	80	0.0138
-20	120	81	0.0139

-30	120	97	0.0168
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ANT1-802.11ac20- CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0144
40	120	78	0.0151
30	120	90	0.0173
20	120	95	0.0184
10	120	77	0.0148
0	120	98	0.0188
-10	120	74	0.0144
-20	120	84	0.0163
-30	120	93	0.0180

ANT1-802.11ac20- CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0141
40	120	84	0.0161
30	120	84	0.0160
20	120	81	0.0155
10	120	84	0.0161
0	120	98	0.0187
-10	120	90	0.0171
-20	120	93	0.0177
-30	120	91	0.0173

ANT1-802.11ac20- CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	72	0.0125
40	120	98	0.0171
30	120	95	0.0166
20	120	96	0.0168
10	120	85	0.0148
0	120	88	0.0153
-10	120	99	0.0172

-20	120	82	0.0142
-30	120	71	0.0124

ANT1-802.11ac20- CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	88	0.0151
40	120	92	0.0158
30	120	89	0.0153
20	120	90	0.0155
10	120	90	0.0155
0	120	83	0.0143
-10	120	95	0.0163
-20	120	77	0.0132
-30	120	96	0.0165

ANT1-802.11ac40- CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	92	0.0178
40	120	93	0.0180
30	120	90	0.0174
20	120	88	0.0170
10	120	95	0.0183
0	120	95	0.0183
-10	120	93	0.0179
-20	120	89	0.0172
-30	120	78	0.0151

ANT1-802.11ac40- CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	73	0.0140
40	120	84	0.0160
30	120	89	0.0169
20	120	98	0.0188
10	120	89	0.0171
0	120	92	0.0176

-10	120	93	0.0178
-20	120	78	0.0148
-30	120	94	0.0180

ANT1-802.11ac40- CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0129
40	120	83	0.0145
30	120	92	0.0160
20	120	96	0.0166
10	120	83	0.0145
0	120	75	0.0130
-10	120	84	0.0147
-20	120	86	0.0150
-30	120	93	0.0161

ANT1-802.11ac40- CH159

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	95	0.0163
40	120	78	0.0135
30	120	80	0.0138
20	120	94	0.0163
10	120	81	0.0141
0	120	70	0.0121
-10	120	89	0.0154
-20	120	95	0.0163
-30	120	95	0.0163

ANT1-802.11ac80- CH42

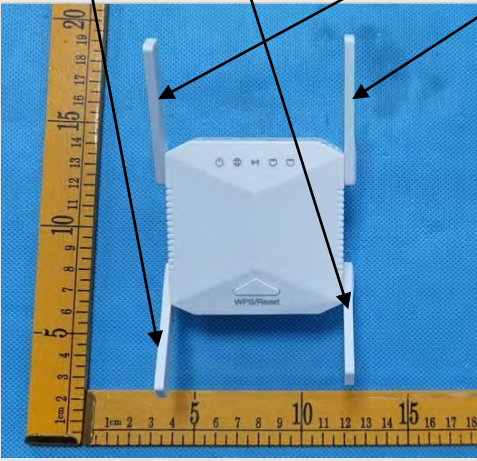
Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	81	0.0156
40	120	92	0.0176
30	120	85	0.0163
20	120	86	0.0166

10	120	97	0.0186
0	120	76	0.0147
-10	120	80	0.0153
-20	120	88	0.0169
-30	120	70	0.0135

ANT1-802.11ac80- CH155

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0129
40	120	99	0.0171
30	120	86	0.0149
20	120	91	0.0158
10	120	86	0.0150
0	120	97	0.0168
-10	120	100	0.0172
-20	120	76	0.0132
-30	120	81	0.0140

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 1:2dBi and Antenna port 2:2dBi. EUT Antenna: 2.4G-ANT1 2.4G-ANT2 5G-ANT1 5G-ANT2 	

10. TEST SETUP PHOTO

Reference to the test setup file for details.

11. EUT CONSTRUCTIONAL DETAILS

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

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