



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.407

Report Reference No.....: GTS20200303006-1-40

FCC ID.....: 2AQAA-EZBOOKS5

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Date of issue: May.20, 2020

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

Address.....: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name.....: SHENZHEN JUMPER TECHNOLOGY CO.,LTD

Address: 101,102,201,301 No.13-2 Pingxi South Rd.,Pingxi Community, Pingdi Street,Longgang District,Shenzhen,GuangDong,China

Test specification

Standard.....: **FCC Part 15.407: UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF: Dated 2014-12

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Test item description **Portable computer**

Trade Mark.....: N/A

Manufacturer.....: SHENZHEN JUMPER TECHNOLOGY CO.,LTD

Model/Type reference.....: EZbook S5

Listed Models.....: EZbook S6, EZbook S7, EZbook S8, EZbook S9, EZbook X5, EZbook X6, EZbook X7, EZbook X8, EZbook X9

Operation Frequency.....: From 5180MHz to 5240MHz/ 5745MHz to 5825MHz

Hardware Version.....: REV,9.0

Software Version.....: 1930

Rating.....: DC 7.6V by battery

Recharged by DC 12.0V/3.0A

Result.....: **PASS**

TEST REPORT

Test Report No. : GTS20200303006-1-40	May.20, 2020 <hr style="border: 0; border-top: 1px solid black;"/> Date of issue
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Equipment under Test : Portable computer

Model /Type : EZbook S5

Listed Models : EZbook S6, EZbook S7, EZbook S8, EZbook S9, EZbook X5,
 EZbook X6, EZbook X7, EZbook X8, EZbook X9

Applicant : **SHENZHEN JUMPER TECHNOLOGY CO.,LTD**

Address : 101,102,201,301 No.13-2 Pingxi South Rd.,Pingxi Community,
 Pingdi Street,Longgang District,Shenzhen,GuangDong,China

Manufacturer : **SHENZHEN JUMPER TECHNOLOGY CO.,LTD**

Address : 101,102,201,301 No.13-2 Pingxi South Rd.,Pingxi Community,
 Pingdi Street,Longgang District,Shenzhen,GuangDong,China

Test Result:	PASS
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The test report merely corresponds to the test sample.
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.407](#): UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 789033 D02](#): GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	May.10, 2020
Testing commenced on	:	May.10, 2020
Testing concluded on	:	May.20, 2020

2.2. Product Description

Product Name	Portable computer
Trade Mark	N/A
Model/Type reference	EZbook S5
List Models	EZbook S6, EZbook S7, EZbook S8, EZbook S9, EZbook X5, EZbook X6, EZbook X7, EZbook X8, EZbook X9
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power supply:	DC 7.6V by battery Recharged by DC 12.0V/3.0A
Sample ID	GTS20200303006-1-1#>S20200303006-1-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 channels for 40MHz bandwidth(2422~2452MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM
WIFI(5.2G Band)	
Frequency Range	5180MHz ~ 5240MHz
Channel Number	4 channels for 20MHz bandwidth(5180-5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	802.11a/n/ac: OFDM
WIFI (5.8G Band)	
Frequency Range	5745MHz ~ 5825MHz
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	802.11a/n/ac: OFDM
Antenna Description	Two same FPC Antenna, but not support MIMO technology ANT0(MAIN) used for BT/WIFI TX/RX, 1.23dBi(Max.) for 2.4G Band and 0.88dBi(Max.) for 5G Band ANT1(AUX) used for WIFI TX/RX, 1.23dBi(Max.) for 2.4G Band and 0.88dBi(Max.) for 5G Band

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 7.6V

2.4. Short description of the Equipment under Test (EUT)

This is a Portable computer .
For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The application provider specific test software to control sample in continuous TX and RX.

Antenna	Chain0 (ANT0)			Chain1 (ANT1)			Simultaneously
Bandwidth Mode	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz	/
IEEE 802.11a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IEEE 802.11n	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IEEE 802.11ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

IEEE 802.11a/ac20/ac40/ac80/n20/n40:

UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.
AC main conducted emission pre-test voltage at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;
AC main conducted emission pre-test at charge from PC modes, recorded worst case;
Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be IEEE 802.11ac VHT20 mode (HCH).

2.6. Block Diagram of Test Setup



2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AQAA-EZBOOKS5** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

2.8. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (DRTU_0.0.0.0) provided by application.

2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Jihongda Power Co.,Ltd.	Adapter	JHD-AP036U-120300AA-A	--	SDOC
PHILIPS	Displayer	203V5L	--	SDOC

Note: The Displayer is only used for auxiliary testing.

2.10. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.0M, Unscreened Cable
USB Port	2	N/A
HDMI Port	1	N/A
SD Card	1	N/A
Headphone Port	1	N/A

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Test Description

Applied Standard: FCC Part 15 Subpart E				
ISED Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	GTS20200303006-1-1#	Compliant	Note 1
§15.407(a)	Maximum Conducted Output Power	GTS20200303006-1-1#	Compliant	Note 1
§15.407(a)	Power Spectral Density	GTS20200303006-1-1#	Compliant	Note 1
§15.407(a)	26dB&6dB Bandwidth and 99% Bandwidth	GTS20200303006-1-1#	Compliant	Note 1
§15.209, §15.407(b)	Radiated Emissions	GTS20200303006-1-2#	Compliant	Note 1
§15.209, §15.407(b)	Emissions at Restricted Band	GTS20200303006-1-1#	Compliant	Note 1
§15.407(g)	Frequency Stability	GTS20200303006-1-1#	Compliant	Note 1
§15.207(a)	AC Mians Line Conducted Emissions	GTS20200303006-1-2#	Compliant	Note 1
§15.203	Antenna Requirements	GTS20200303006-1-1#	Compliant	Note 1
§15.407 §2.1093	RF Exposure	/	Compliant	Note 2

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (SAR Report).
5. We tested all test mode and recorded worst case in report

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Peak Conducted Output Power	802.11a	6 Mbps
Power Spectral Density 6dB Bandwidth 26dB Bandwidth Radiated Emission30M~1GHz& Radiated Emission 1GHz~10 th Harmonic	802.11ac20/ac40/ac80 802.11n HT20/40	MCS0
Band Edge	802.11a	6 Mbps
	802.11ac20/ac40/ac80 802.11n HT20/40	MCS0

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

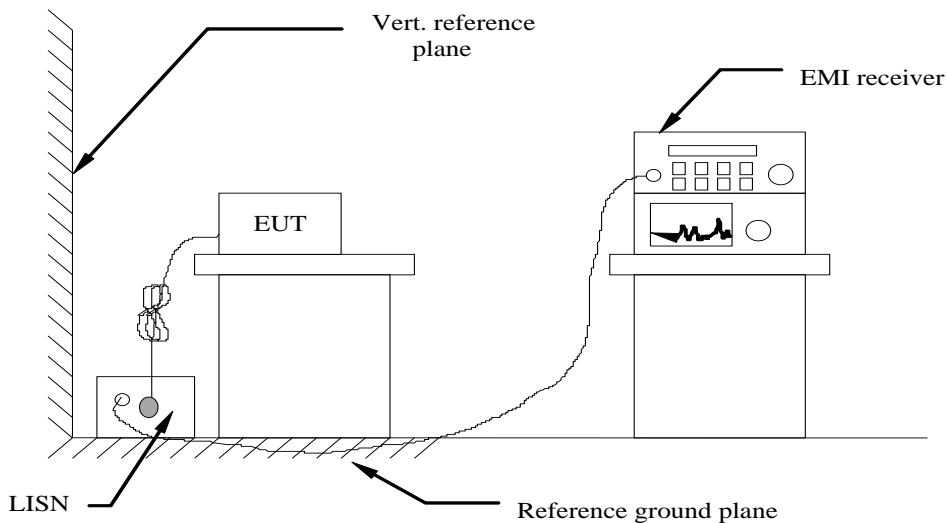
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	3560.6550.08	2019/09/20	2020/09/19
LISN	R&S	ESH2-Z5	893606/008	2019/09/20	2020/09/19
EMI Test Receiver	R&S	ESPI3	101841-cd	2019/09/20	2020/09/19
EMI Test Receiver	R&S	ESCI7	101102	2019/09/20	2020/09/19
Spectrum Analyzer	Agilent	N9020A	MY48010425	2019/09/20	2020/09/19
Spectrum Analyzer	R&S	FSV40	100019	2019/09/20	2020/09/19
Vector Signal generator	Agilent	N5181A	MY49060502	2019/09/20	2020/09/19
Signal generator	Agilent	E4421B	3610AO1069	2019/09/20	2020/09/19
Climate Chamber	ESPEC	EL-10KA	A20120523	2019/09/20	2020/09/19
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2019/09/23	2020/09/22
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2019/10/12	2020/10/11
Bilog Antenna	Schwarzbeck	VULB9163	000976	2019/05/26	2020/05/25
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2019/09/20	2020/09/19
Amplifier	Schwarzbeck	BBV 9743	#202	2019/09/20	2020/09/19
Amplifier	Schwarzbeck	BBV9179	9719-025	2019/09/20	2020/09/19
Amplifier	EMCI	EMC051845B	980355	2019/09/20	2020/09/19
Temperature/Humidity Meter	Gangxing	CTH-608	02	2019/09/20	2020/09/19
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2019/09/20	2020/09/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2019/09/20	2020/09/19
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2019/09/20	2020/09/19
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2019/09/20	2020/09/19
Data acquisition card	Agilent	U2531A	TW53323507	2019/09/20	2020/09/19
Power Sensor	Agilent	U2021XA	MY5365004	2019/09/20	2020/09/19
Test Control Unit	Tonscend	JS0806-1	178060067	2019/06/20	2020/06/19
Automated filter bank	Tonscend	JS0806-F	19F8060177	2019/06/20	2020/06/19
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



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 EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/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.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

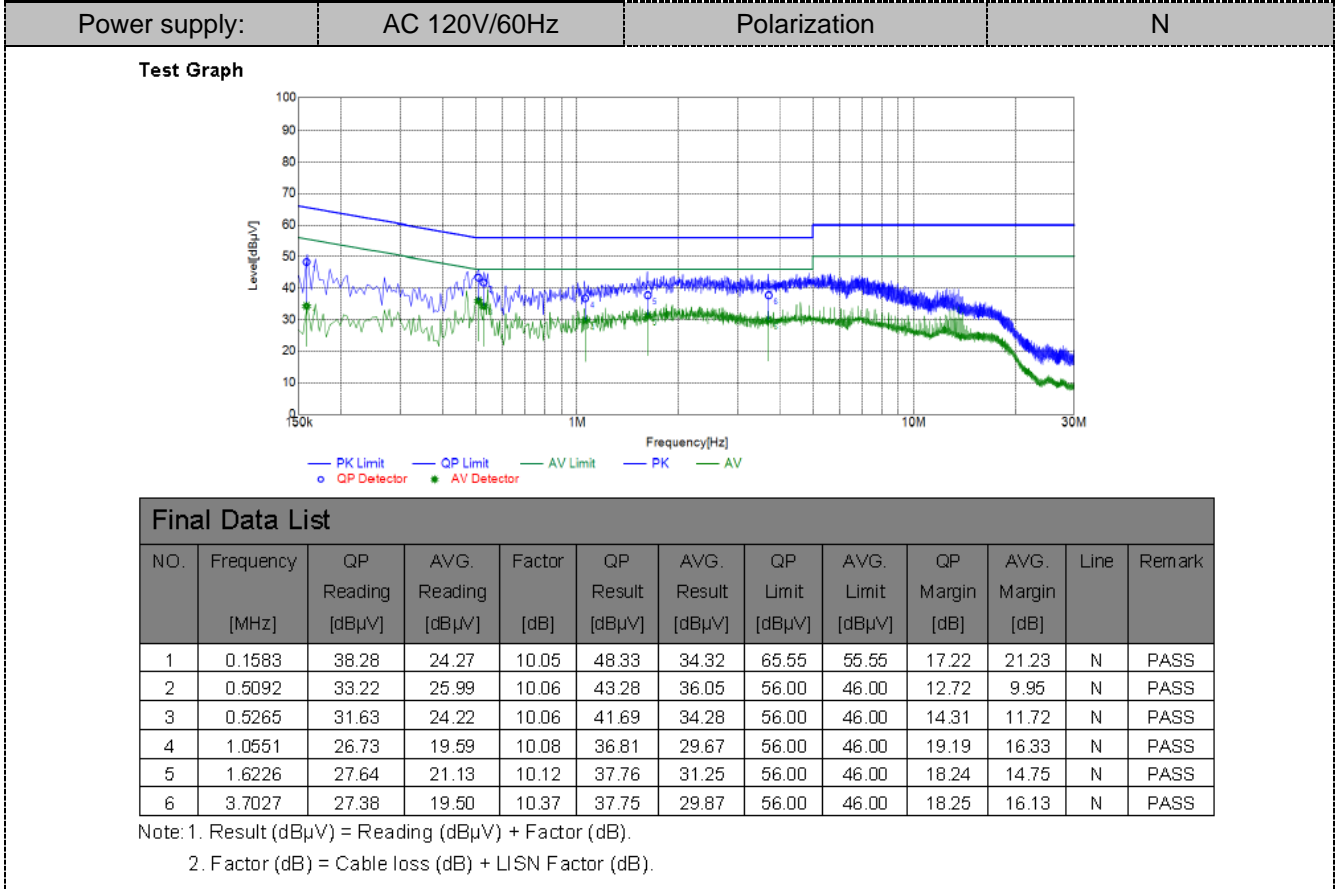
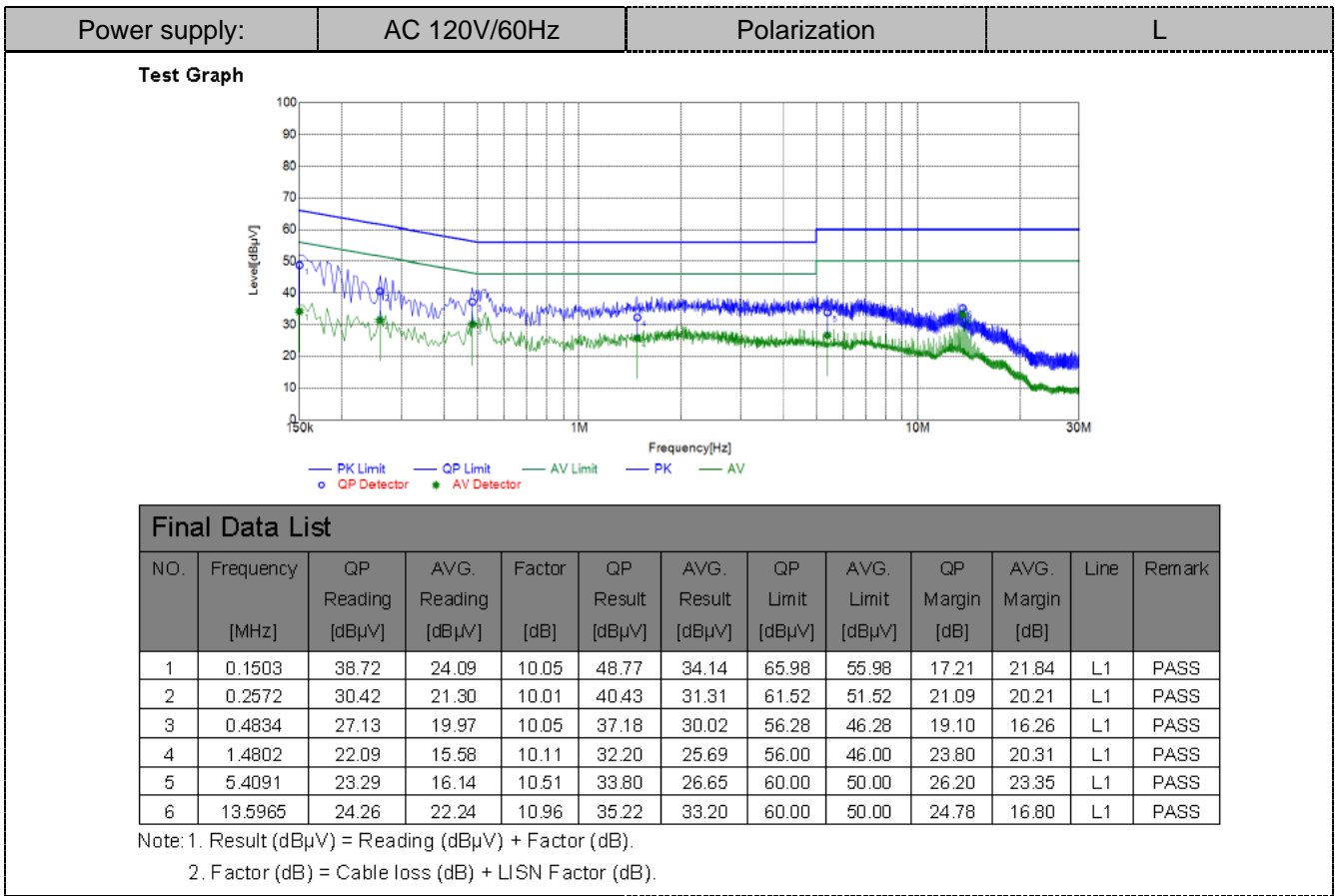
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark: We measured Conducted Emission at all mode in AC 120V/60Hz, the worst case was recorded .

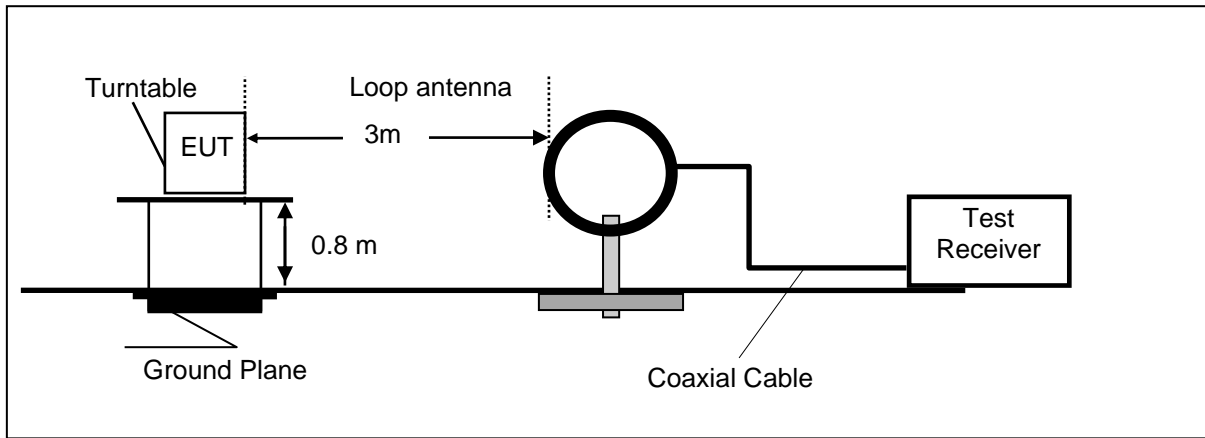
Temperature	24.2°C	Humidity	54.2%
Test Engineer	Moon Tan	Configurations	IEEE 802.11ac20 HCH



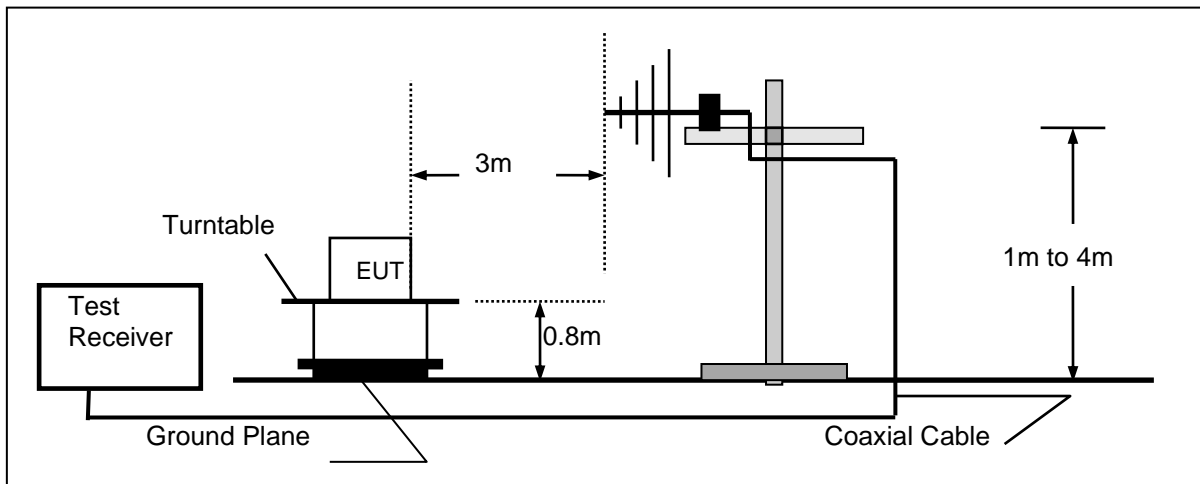
4.2. Radiated Emission

TEST CONFIGURATION

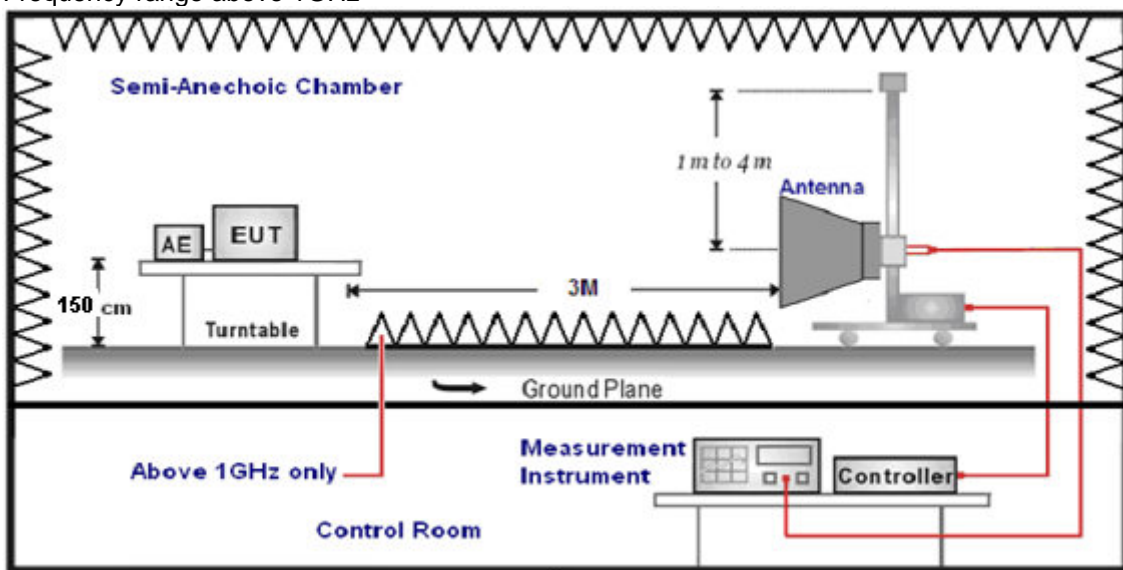
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing above 1GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 24MHz and maximum operation frequency was 5825MHz.so radiated emission test frequency band from 9KHz to 40GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

According to §15.407 (b): Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 (beyond 10MHz of the bandedge)	68.2
	-17 (within 10 MHz of band edge)	78.2

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

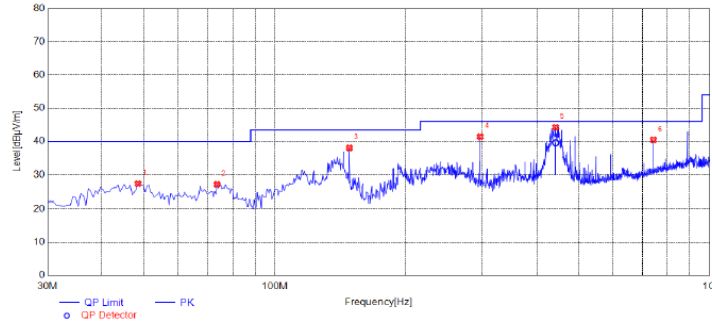
Remark: We measured Radiated Emission at all mode from 30MHz to 25GHz in AC 120V/60Hz and the worst case was recorded.

Temperature	24.1 °C	Humidity	53.8%
Test Engineer	Moon Tan	Configurations	IEEE 802.11ac20 HCH

For 30MHz-1GHz

Horizontal

Test Graph



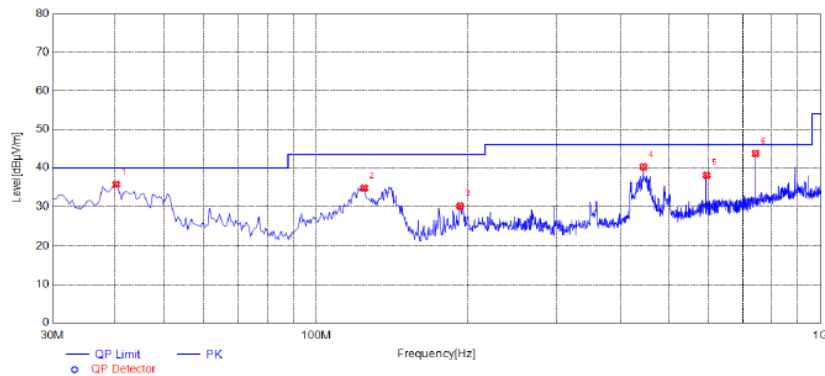
Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.4300	33.73	-6.47	27.26	40.00	12.74	100	282	PK	Horizontal	PASS
2	73.6500	39.49	-12.43	27.06	40.00	12.94	100	144	PK	Horizontal	PASS
3	148.3400	51.02	-12.96	38.06	43.50	5.44	100	6	PK	Horizontal	PASS
4	296.7500	49.10	-7.68	41.42	46.00	4.58	100	262	PK	Horizontal	PASS
5	442.2500	48.88	-4.59	44.29	46.00	1.71	100	148	PK	Horizontal	PASS
6	741.9800	40.30	0.15	40.45	46.00	5.55	100	161	PK	Horizontal	PASS

Quasi-peak Final Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark	
1	442.2500	44.2	-4.59	39.61	46.00	6.39	100	148	Horizontal	PASS	

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .
 2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	40.1850	43.16	-7.48	35.68	40.00	4.32	100	350	PK	Vertical	PASS
2	124.5750	46.22	-11.45	34.77	43.50	8.73	100	104	PK	Vertical	PASS
3	192.9600	40.05	-9.98	30.07	43.50	13.43	100	359	PK	Vertical	PASS
4	445.1600	44.68	-4.48	40.20	46.00	5.80	100	313	PK	Vertical	PASS
5	593.5700	39.94	-1.87	38.07	46.00	7.93	100	98	PK	Vertical	PASS
6	741.9800	43.55	0.15	43.70	46.00	2.30	100	289	PK	Vertical	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .
 2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

For 1GHz to 40GHz
5150-5250MHz:

802.11a Mode Channel 36 5180 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10360	39.18	38.55	33.13	11.26	55.86	68.20	-12.34	Peak	Horizontal
1	10360	31.47	38.55	33.13	11.26	48.15	54.00	-5.85	AV	Horizontal
1	10360	41.86	38.55	33.13	11.26	58.54	68.20	-9.66	Peak	Vertical
1	10360	28.82	38.55	33.13	11.26	45.50	54.00	-8.50	AV	Vertical

802.11a Mode Channel 40 5200 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10400	40.04	38.55	33.13	11.26	56.72	68.20	-11.48	Peak	Horizontal
1	10400	30.55	38.55	33.13	11.26	47.23	54.00	-6.77	AV	Horizontal
1	10400	41.71	38.55	33.13	11.26	58.39	68.20	-9.81	Peak	Vertical
1	10400	29.60	38.55	33.13	11.26	46.28	54.00	-7.72	AV	Vertical

802.11a Mode Channel 48 5240 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10480	40.19	38.55	33.13	11.26	56.87	68.20	-11.33	Peak	Horizontal
1	10480	30.25	38.55	33.13	11.26	46.93	54.00	-7.07	AV	Horizontal
1	10480	40.74	38.55	33.13	11.26	57.42	68.20	-10.78	Peak	Vertical
1	10480	29.80	38.55	33.13	11.26	46.48	54.00	-7.52	AV	Vertical

802.11n20 Mode Channel 36 5180 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10360	39.18	38.55	33.13	11.26	55.86	68.20	-12.34	Peak	Horizontal
1	10360	31.09	38.55	33.13	11.26	47.77	54.00	-6.23	AV	Horizontal
1	10360	40.64	38.55	33.13	11.26	57.32	68.20	-10.88	Peak	Vertical
1	10360	29.74	38.55	33.13	11.26	46.42	54.00	-7.58	AV	Vertical

802.11n20 Mode Channel 40 5200 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10400	40.77	38.55	33.13	11.26	57.45	68.20	-10.75	Peak	Horizontal
1	10400	31.63	38.55	33.13	11.26	48.31	54.00	-5.69	AV	Horizontal
1	10400	41.68	38.55	33.13	11.26	58.36	68.20	-9.84	Peak	Vertical
1	10400	29.10	38.55	33.13	11.26	45.78	54.00	-8.22	AV	Vertical

802.11n20 Mode Channel 48 5240 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10480	40.15	38.55	33.13	11.26	56.83	68.20	-11.37	Peak	Horizontal
1	10480	30.46	38.55	33.13	11.26	47.14	54.00	-6.86	AV	Horizontal
1	10480	40.34	38.55	33.13	11.26	57.02	68.20	-11.18	Peak	Vertical
1	10480	29.54	38.55	33.13	11.26	46.22	54.00	-7.78	AV	Vertical

802.11n40 Mode Channel 38 5190 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10380	39.34	38.55	33.13	11.26	56.02	68.20	-12.18	Peak	Horizontal
1	10380	30.68	38.55	33.13	11.26	47.36	54.00	-6.64	AV	Horizontal
1	10380	41.61	38.55	33.13	11.26	58.29	68.20	-9.91	Peak	Vertical
1	10380	29.13	38.55	33.13	11.26	45.81	54.00	-8.19	AV	Vertical

802.11n40 Mode Channel 46 5230 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10460	40.50	38.55	33.13	11.26	57.18	68.20	-11.02	Peak	Horizontal
1	10460	30.80	38.55	33.13	11.26	47.48	54.00	-6.52	AV	Horizontal
1	10460	41.51	38.55	33.13	11.26	58.19	68.20	-10.01	Peak	Vertical
1	10460	28.71	38.55	33.13	11.26	45.39	54.00	-8.61	AV	Vertical

802.11ac20 Mode Channel 36 5180 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10360	39.59	38.55	33.13	11.26	56.27	68.20	-11.93	Peak	Horizontal
1	10360	31.43	38.55	33.13	11.26	48.11	54.00	-5.89	AV	Horizontal
1	10360	41.33	38.55	33.13	11.26	58.01	68.20	-10.19	Peak	Vertical
1	10360	28.28	38.55	33.13	11.26	44.96	54.00	-9.04	AV	Vertical

802.11ac20 Mode Channel 40 5200 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10400	39.24	38.55	33.13	11.26	55.92	68.20	-12.28	Peak	Horizontal
1	10400	30.50	38.55	33.13	11.26	47.18	54.00	-6.82	AV	Horizontal
1	10400	40.39	38.55	33.13	11.26	57.07	68.20	-11.13	Peak	Vertical
1	10400	28.70	38.55	33.13	11.26	45.38	54.00	-8.62	AV	Vertical

802.11ac20 Mode Channel 48 5240 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10480	39.69	38.55	33.13	11.26	56.37	68.20	-11.83	Peak	Horizontal
1	10480	30.92	38.55	33.13	11.26	47.60	54.00	-6.40	AV	Horizontal
1	10480	40.75	38.55	33.13	11.26	57.43	68.20	-10.77	Peak	Vertical
1	10480	29.43	38.55	33.13	11.26	46.11	54.00	-7.89	AV	Vertical

802.11ac40 Mode Channel 38 5190 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	10380	39.90	38.55	33.13	11.26	56.58	68.20	-11.62	Peak	Horizontal
1	10380	30.56	38.55	33.13	11.26	47.24	54.00	-6.76	AV	Horizontal
1	10380	41.28	38.55	33.13	11.26	57.96	68.20	-10.24	Peak	Vertical
1	10380	28.97	38.55	33.13	11.26	45.65	54.00	-8.35	AV	Vertical

802.11ac40 Mode Channel 46 5230 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10460	39.62	38.55	33.13	11.26	56.30	68.20	-11.90	Peak	Horizontal
1	10460	31.96	38.55	33.13	11.26	48.64	54.00	-5.36	AV	Horizontal
1	10460	41.81	38.55	33.13	11.26	58.49	68.20	-9.71	Peak	Vertical
1	10460	29.37	38.55	33.13	11.26	46.05	54.00	-7.95	AV	Vertical

802.11ac80 Mode Channel 42 5210 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10420	40.38	38.55	33.13	11.26	57.06	68.20	-11.14	Peak	Horizontal
1	10420	31.19	38.55	33.13	11.26	47.87	54.00	-6.13	AV	Horizontal
1	10420	40.37	38.55	33.13	11.26	57.05	68.20	-11.15	Peak	Vertical
1	10420	29.67	38.55	33.13	11.26	46.35	54.00	-7.65	AV	Vertical

5725-5850MHz:

802.11a Mode Channel 149 5745 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	11490	40.41	38.55	33.13	11.26	57.09	68.20	-11.11	Peak	Horizontal
1	11490	30.10	38.55	33.13	11.26	46.78	54.00	-7.22	AV	Horizontal
1	11490	40.33	38.55	33.13	11.26	57.01	68.20	-11.19	Peak	Vertical
1	11490	28.89	38.55	33.13	11.26	45.57	54.00	-8.43	AV	Vertical

802.11a Mode Channel 157 5785 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	11570	39.62	38.55	33.13	11.26	56.30	68.20	-11.90	Peak	Horizontal
1	11570	30.93	38.55	33.13	11.26	47.61	54.00	-6.39	AV	Horizontal
1	11570	40.51	38.55	33.13	11.26	57.19	68.20	-11.01	Peak	Vertical
1	11570	28.21	38.55	33.13	11.26	44.89	54.00	-9.11	AV	Vertical

802.11a Mode Channel 165 5825 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	11650	40.97	38.55	33.13	11.26	57.65	68.20	-10.55	Peak	Horizontal
1	11650	30.18	38.55	33.13	11.26	46.86	54.00	-7.14	AV	Horizontal
1	11650	41.19	38.55	33.13	11.26	57.87	68.20	-10.33	Peak	Vertical
1	11650	28.92	38.55	33.13	11.26	45.60	54.00	-8.40	AV	Vertical

802.11n20 Mode_Channel 149_ 5745 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11490	39.62	38.55	33.13	11.26	56.30	68.20	-11.90	Peak	Horizontal
1	11490	31.43	38.55	33.13	11.26	48.11	54.00	-5.89	AV	Horizontal
1	11490	41.40	38.55	33.13	11.26	58.08	68.20	-10.12	Peak	Vertical
1	11490	29.03	38.55	33.13	11.26	45.71	54.00	-8.29	AV	Vertical

802.11n20 Mode_Channel 157_ 5785 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11570	39.65	38.55	33.13	11.26	56.33	68.20	-11.87	Peak	Horizontal
1	11570	30.48	38.55	33.13	11.26	47.16	54.00	-6.84	AV	Horizontal
1	11570	41.93	38.55	33.13	11.26	58.61	68.20	-9.59	Peak	Vertical
1	11570	28.07	38.55	33.13	11.26	44.75	54.00	-9.25	AV	Vertical

802.11n20 Mode_Channel 165_ 5825 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11650	39.74	38.55	33.13	11.26	56.42	68.20	-11.78	Peak	Horizontal
1	11650	30.76	38.55	33.13	11.26	47.44	54.00	-6.56	AV	Horizontal
1	11650	40.96	38.55	33.13	11.26	57.64	68.20	-10.56	Peak	Vertical
1	11650	28.72	38.55	33.13	11.26	45.40	54.00	-8.60	AV	Vertical

802.11n40 Mode_Channel 151_ 5755 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11510	40.21	38.55	33.13	11.26	56.89	68.20	-11.31	Peak	Horizontal
1	11510	31.47	38.55	33.13	11.26	48.15	54.00	-5.85	AV	Horizontal
1	11510	40.48	38.55	33.13	11.26	57.16	68.20	-11.04	Peak	Vertical
1	11510	28.06	38.55	33.13	11.26	44.74	54.00	-9.26	AV	Vertical

802.11n40 Mode_Channel 159_ 5795MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11590	39.88	38.55	33.13	11.26	56.56	68.20	-11.64	Peak	Horizontal
1	11590	31.07	38.55	33.13	11.26	47.75	54.00	-6.25	AV	Horizontal
1	11590	41.59	38.55	33.13	11.26	58.27	68.20	-9.93	Peak	Vertical
1	11590	29.33	38.55	33.13	11.26	46.01	54.00	-7.99	AV	Vertical

802.11ac20 Mode_Channel 149_ 5745 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11490	39.25	38.55	33.13	11.26	55.93	68.20	-12.27	Peak	Horizontal
1	11490	31.29	38.55	33.13	11.26	47.97	54.00	-6.03	AV	Horizontal
1	11490	41.29	38.55	33.13	11.26	57.97	68.20	-10.23	Peak	Vertical
1	11490	28.24	38.55	33.13	11.26	44.92	54.00	-9.08	AV	Vertical

802.11ac20 Mode Channel 157 _ 5785 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11570	39.73	38.55	33.13	11.26	56.41	68.20	-11.79	Peak	Horizontal
1	11570	31.04	38.55	33.13	11.26	47.72	54.00	-6.28	AV	Horizontal
1	11570	40.22	38.55	33.13	11.26	56.90	68.20	-11.30	Peak	Vertical
1	11570	29.19	38.55	33.13	11.26	45.87	54.00	-8.13	AV	Vertical

802.11ac20 Mode Channel 165 _ 5825 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11650	40.77	38.55	33.13	11.26	57.45	68.20	-10.75	Peak	Horizontal
1	11650	30.38	38.55	33.13	11.26	47.06	54.00	-6.94	AV	Horizontal
1	11650	40.43	38.55	33.13	11.26	57.11	68.20	-11.09	Peak	Vertical
1	11650	29.33	38.55	33.13	11.26	46.01	54.00	-7.99	AV	Vertical

802.11ac40 Mode Channel 151 _ 5755 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11510	39.83	38.55	33.13	11.26	56.51	68.20	-11.69	Peak	Horizontal
1	11510	30.05	38.55	33.13	11.26	46.73	54.00	-7.27	AV	Horizontal
1	11510	40.03	38.55	33.13	11.26	56.71	68.20	-11.49	Peak	Vertical
1	11510	28.48	38.55	33.13	11.26	45.16	54.00	-8.84	AV	Vertical

802.11ac40 Mode Channel 159 _ 5795MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11590	39.83	38.55	33.13	11.26	56.51	68.20	-11.69	Peak	Horizontal
1	11590	32.00	38.55	33.13	11.26	48.68	54.00	-5.32	AV	Horizontal
1	11590	40.00	38.55	33.13	11.26	56.68	68.20	-11.52	Peak	Vertical
1	11590	29.40	38.55	33.13	11.26	46.08	54.00	-7.92	AV	Vertical

802.11ac80 Mode Channel 155 _ 5775 MHz

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector	Polarization
1	11550	40.71	38.55	33.13	11.26	57.39	68.20	-10.81	Peak	Horizontal
1	11550	30.71	38.55	33.13	11.26	47.39	54.00	-6.61	AV	Horizontal
1	11550	40.03	38.55	33.13	11.26	56.71	68.20	-11.49	Peak	Vertical
1	11550	29.00	38.55	33.13	11.26	45.68	54.00	-8.32	AV	Vertical

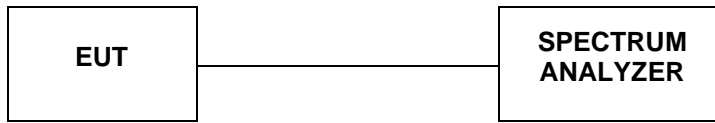
REMARKS:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin= Result Level- Limit.
3. The other emission levels were very low against the limit.
4. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak;

NOTE: We measured Radiated Emission at Antenna 0& Antenna 1 mode from 1GHz to 25GHz and the worst case was recorded(Antenna 0).

4.3. Duty Cycle

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 B Duty Cycle (x), Transmission Duration (T):

- A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal
- The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zerospan measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST RESULTS

Temperature	24.2°C	Humidity	54.9%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

Antenna 0:
5150-5250MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.99	0.04

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.98	0.09

802.11ac20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.99	0.04

802.11n HT40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
38	5190	0.97	0.13

802.11ac40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
38	5190	0.97	0.13

802.11ac80 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
42	5210	0.94	0.27

5725-5850MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.99	0.04

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.98	0.09

802.11ac20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.99	0.04

802.11n HT40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
151	5755	0.97	0.13

802.11ac40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
151	5755	0.97	0.13

802.11ac80 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
155	5775	0.93	0.32

Antenna 1:
5150-5250MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.99	0.04

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.98	0.09

802.11ac20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
40	5200	0.98	0.09

802.11n HT40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
38	5190	0.97	0.13

802.11ac40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
38	5190	0.97	0.13

802.11ac80 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
42	5210	0.94	0.27

5725-5850MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.99	0.04

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.98	0.09

802.11ac20 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
157	5785	0.99	0.04

802.11n HT40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
151	5755	0.97	0.13

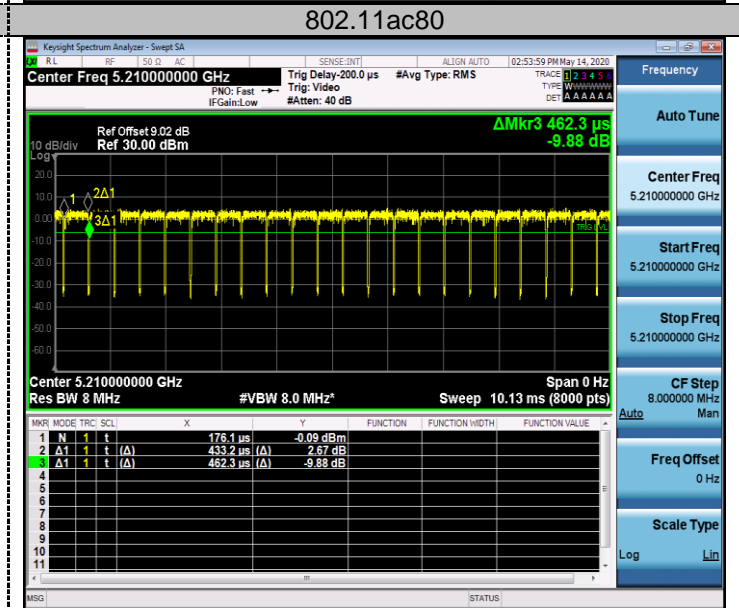
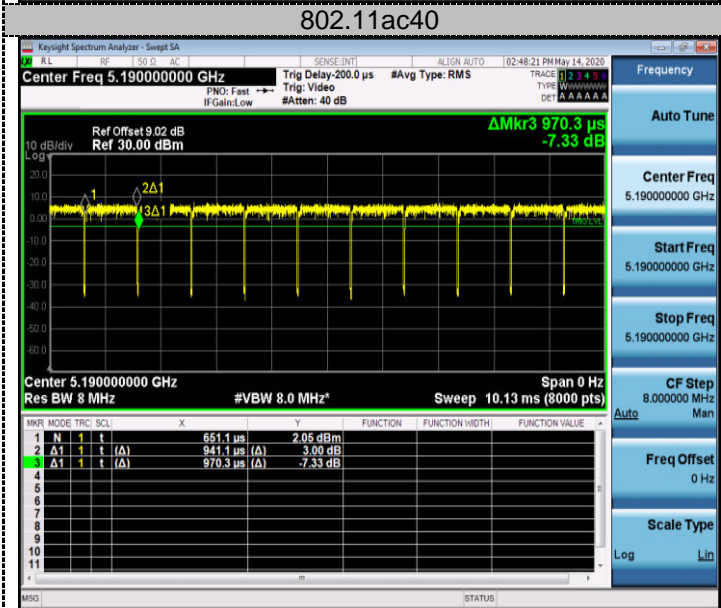
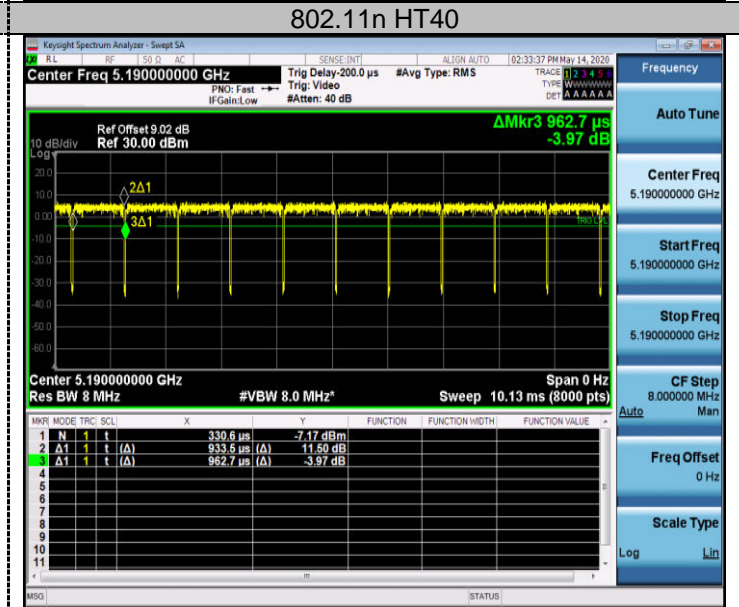
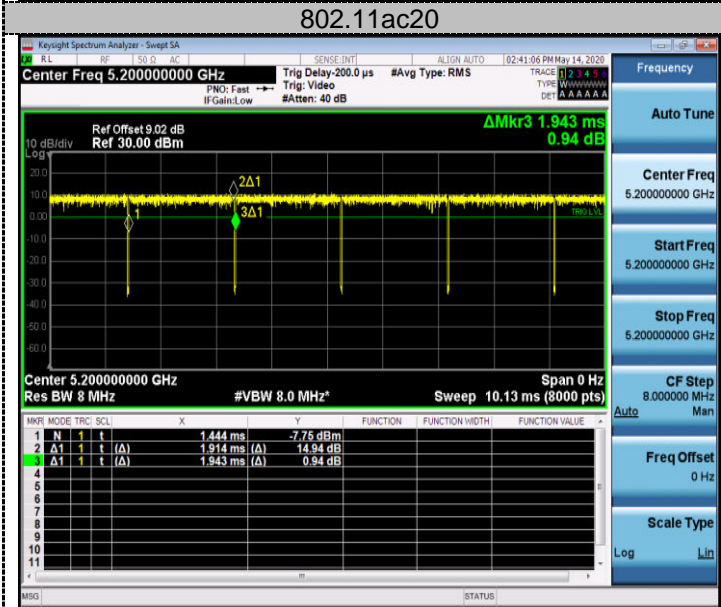
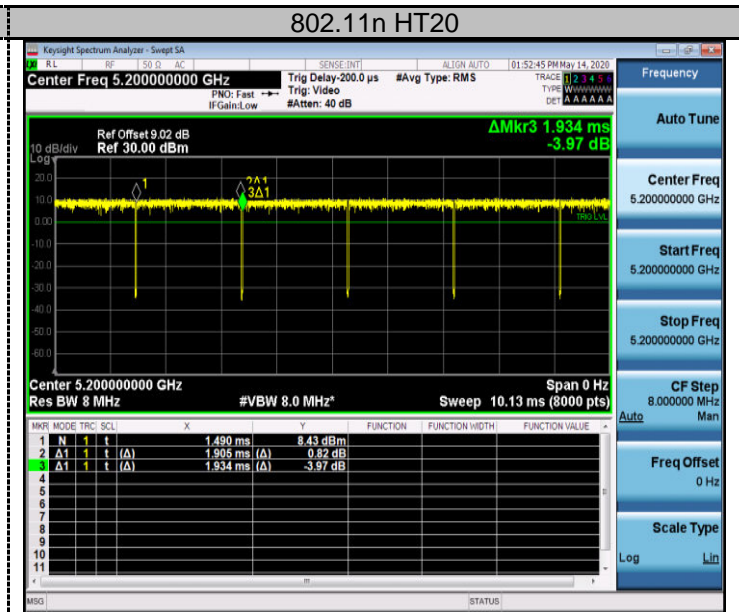
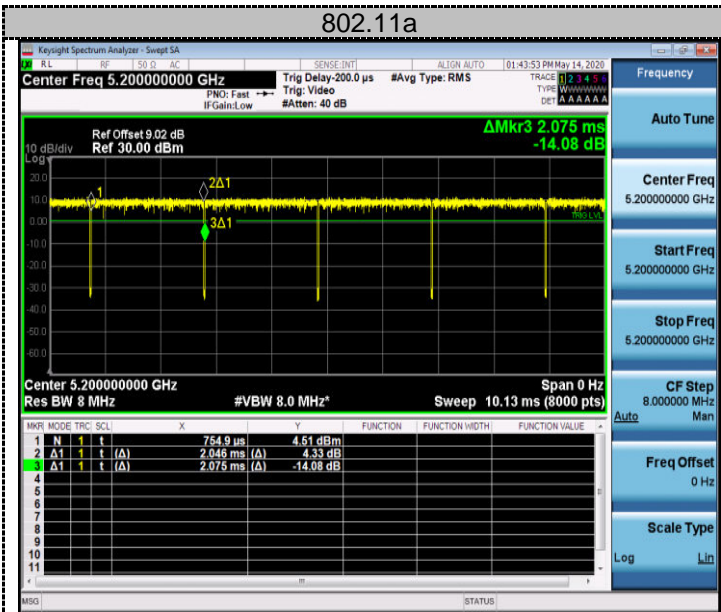
802.11ac40 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
151	5755	0.97	0.13

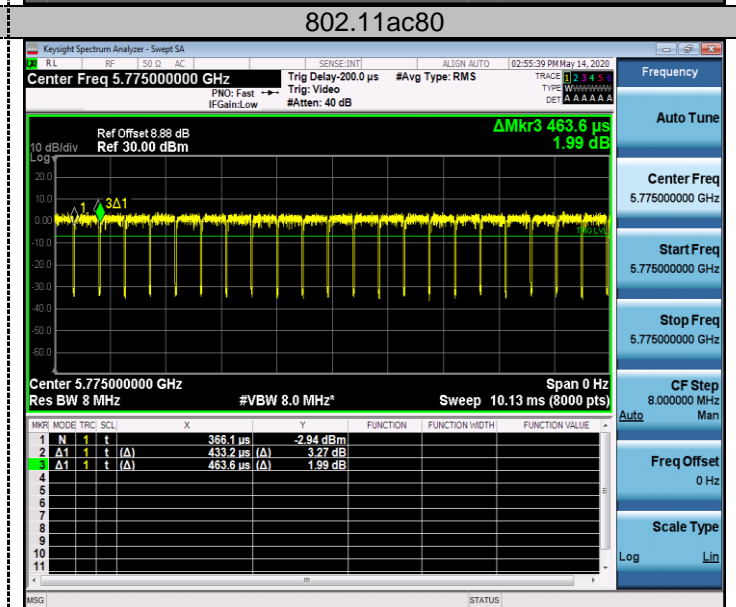
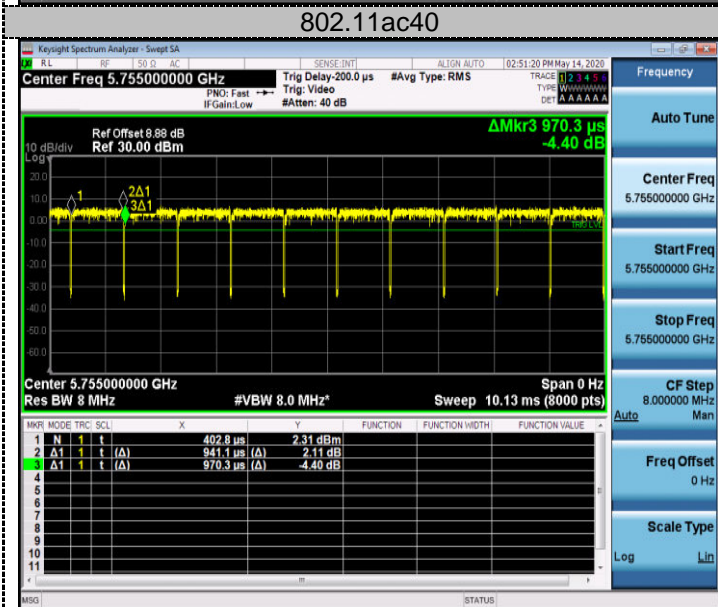
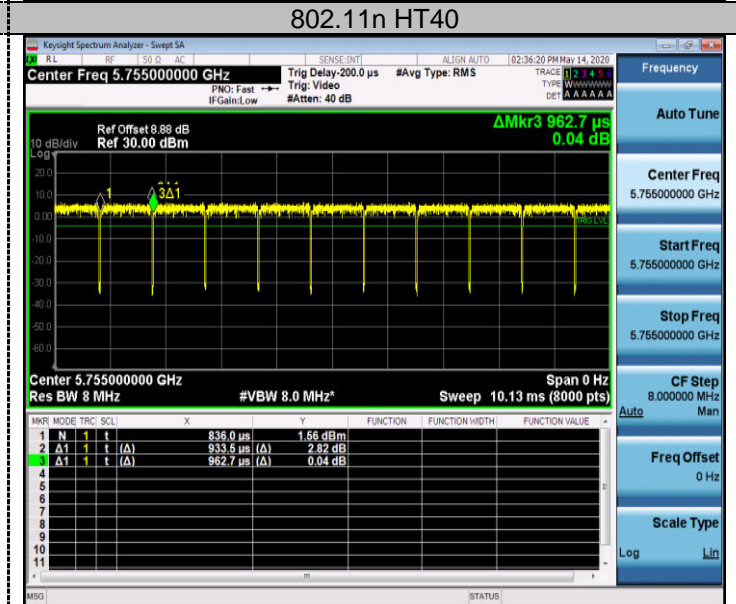
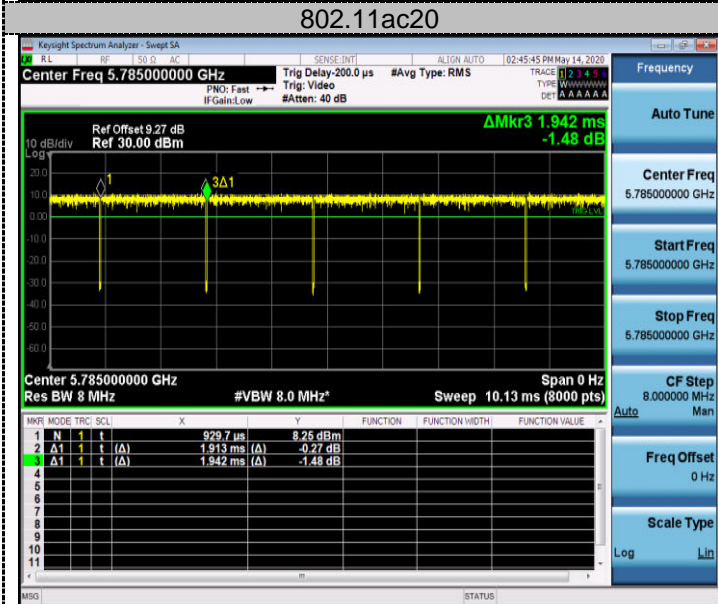
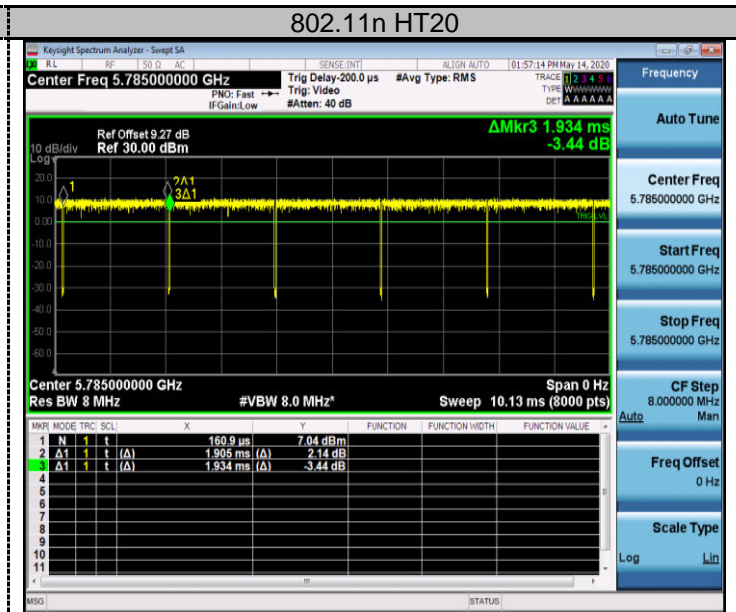
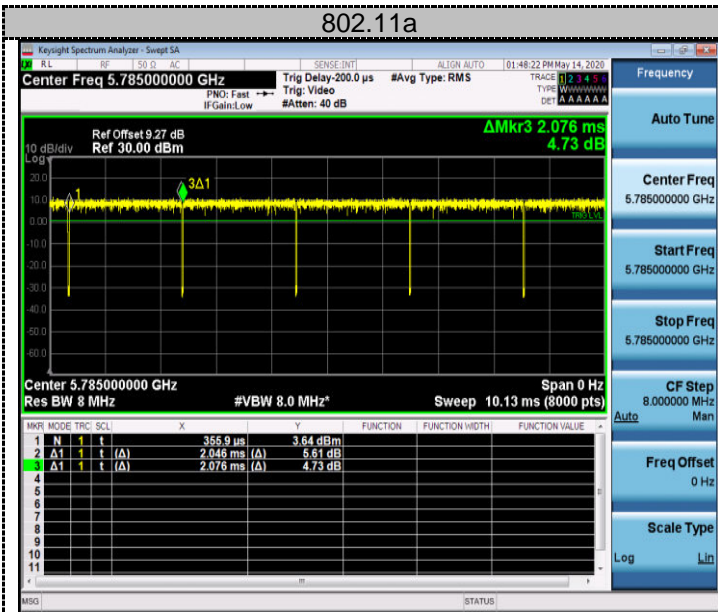
802.11ac80 Test Mode

Channel	Frequency (MHz)	Duty Cycle	Duty factor (dB)
155	5775	0.94	0.27

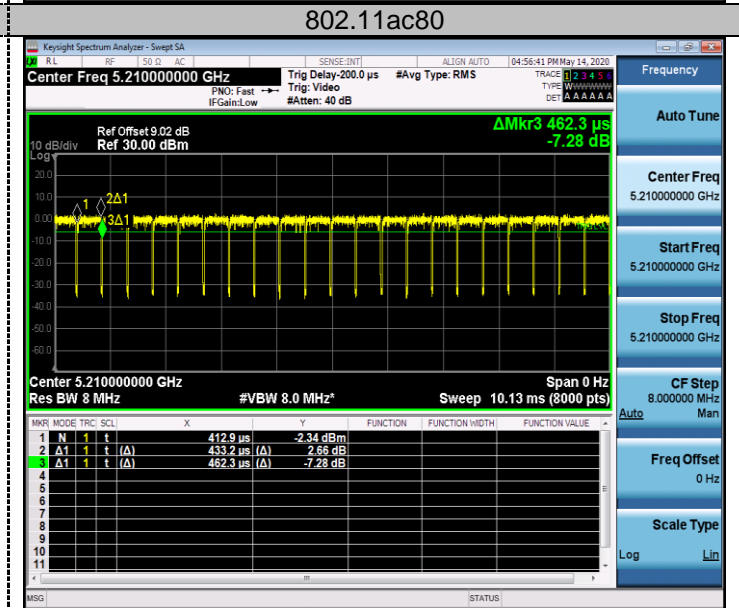
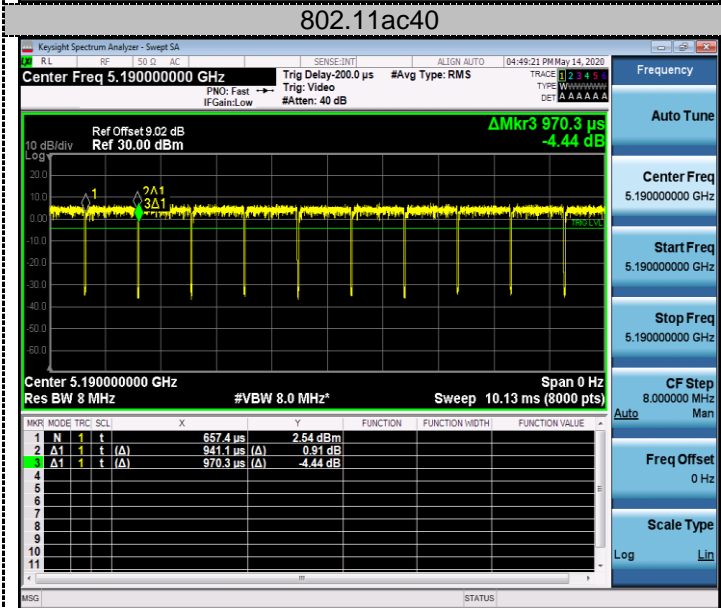
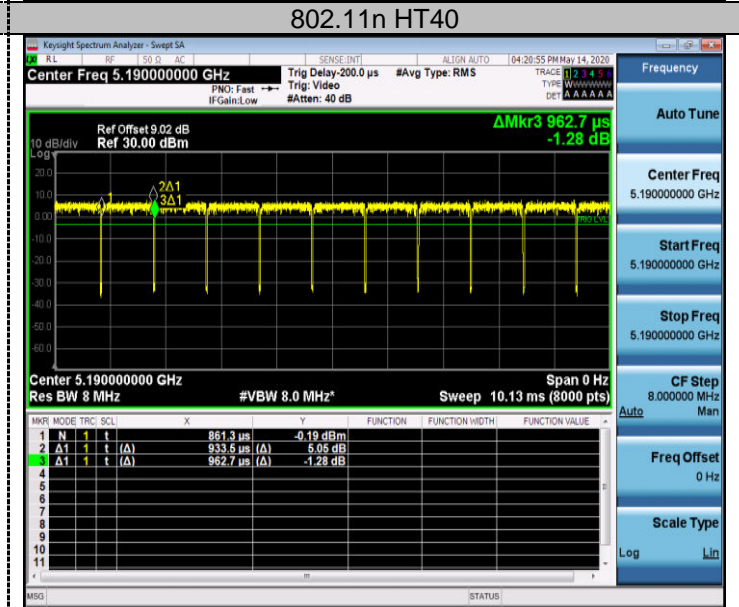
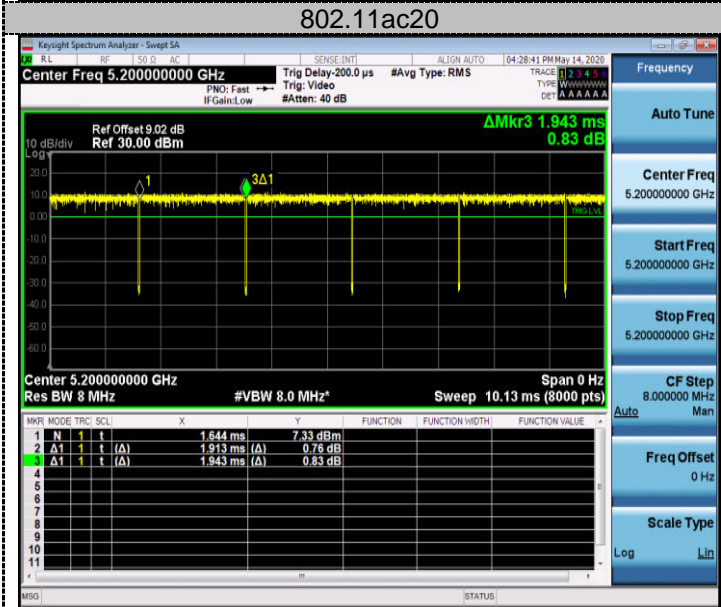
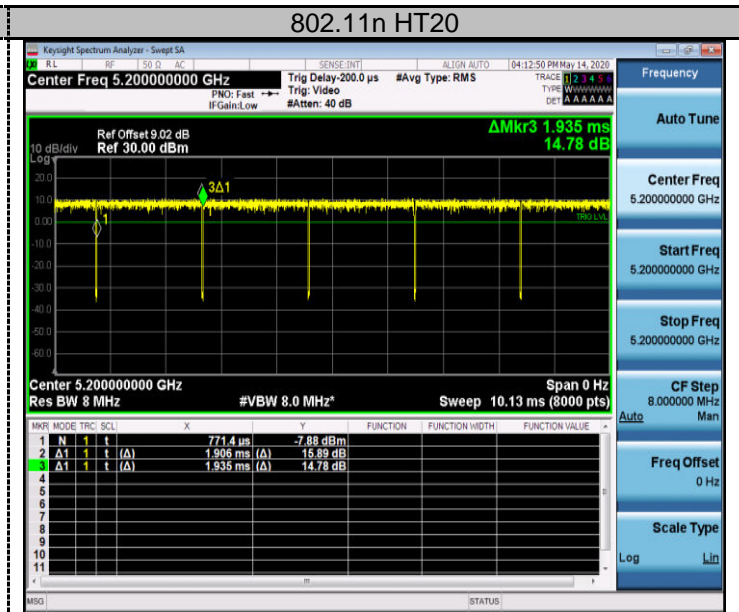
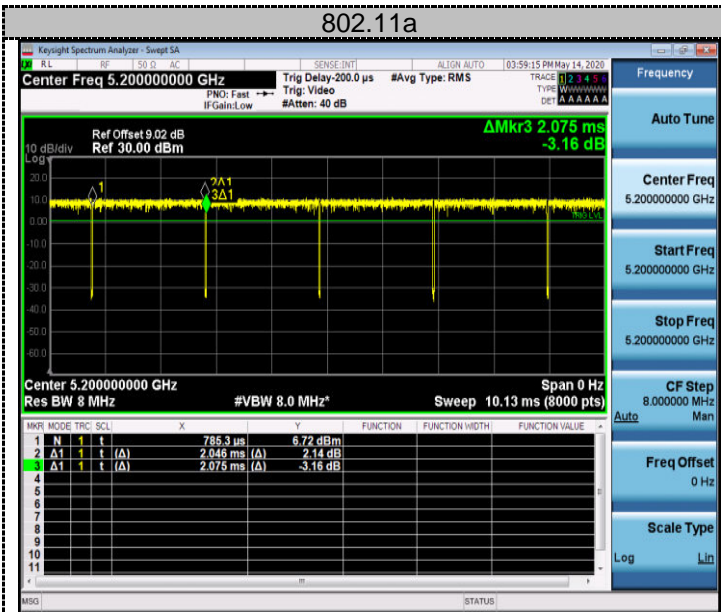
Antenna 0:
5150-5250MHz:



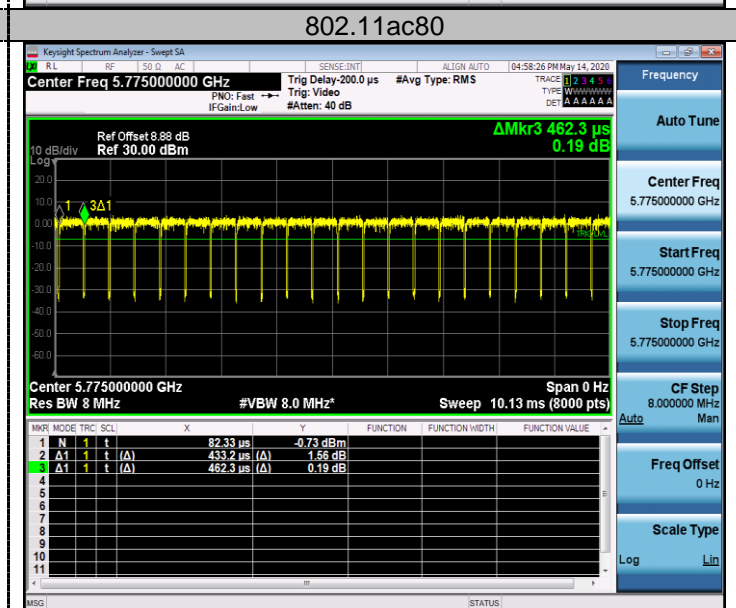
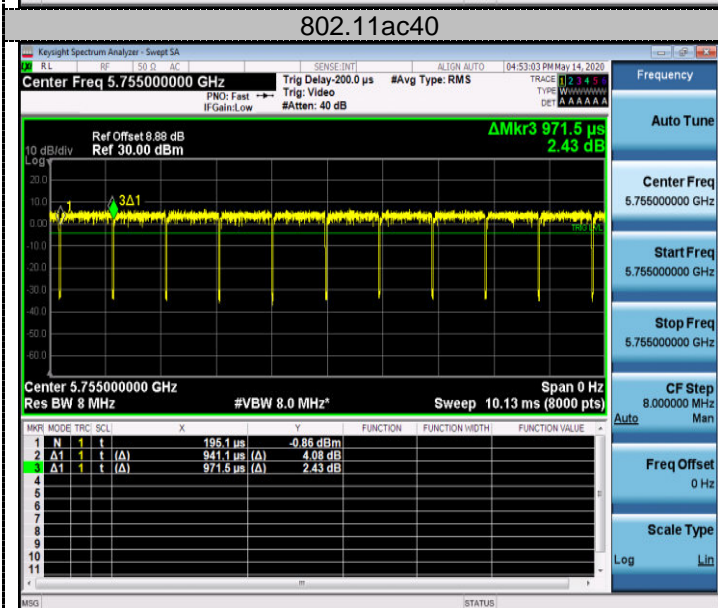
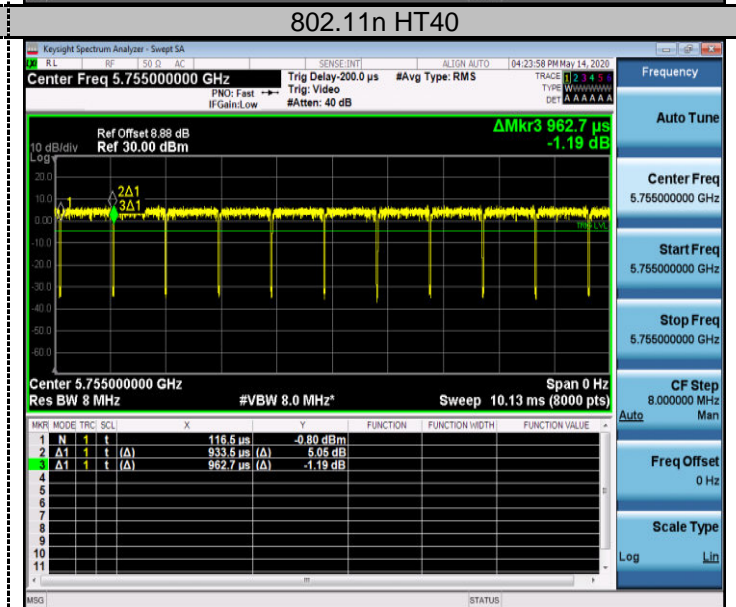
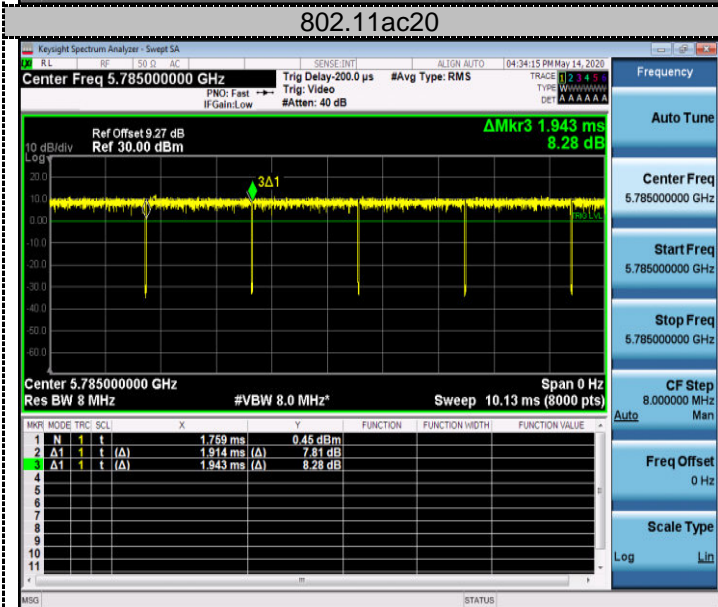
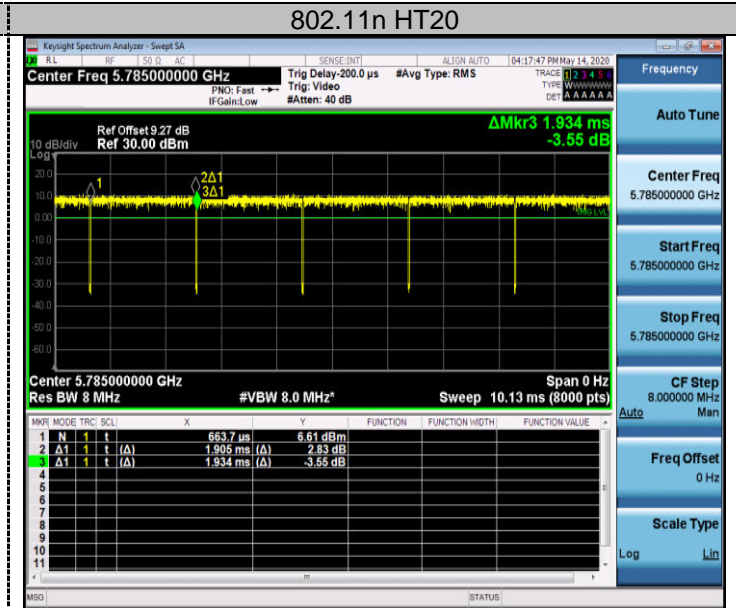
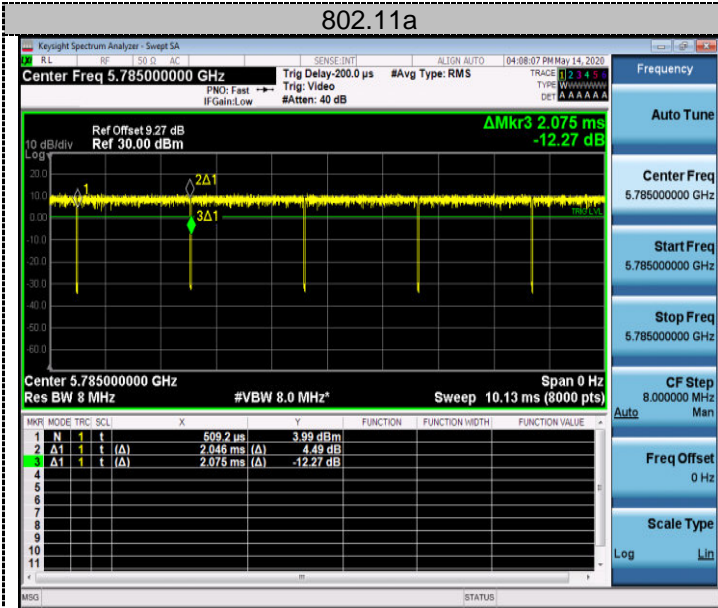
5725-5850MHz:



Antenna 1:
5150-5250MHz:

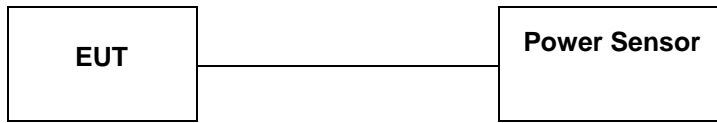


5725-5850MHz:



4.4. Maximum Average Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 Section E3 Measurement using a Power Meter (PM):

- a. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied
 - 1. The EUT is configured to transmit continuously or to transmit with a constant duty cycle
 - 2. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - 3. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B
- c. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).

LIMIT

According to §15.407(a): The maximum output power should be not exceed follow:

Frequency Range (MHz)	Limit
5150-5250	Fixed: 1 Watt (30dBm) Mobile and portable: 250mW (24dBm)
5250-5350	250mW (24dBm)
5470-5725	250mW (24dBm)
5725-5850	1 Watt (30dBm)

Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)

TEST RESULTS

Temperature	24.2°C	Humidity	54.9%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

Antenna 0:
5150-5250MHz:

Channel	Frequency (MHz)	Output Power AV (dBm)	Duty factor (dB)	Output Power AV + Duty factor (dBm)	Limits (dBm)	Verdict
802.11a						
36	5180	12.75	0.04	12.79	24.00	PASS
40	5200	12.01	0.04	12.05	24.00	PASS
48	5240	12.74	0.04	12.78	24.00	PASS
802.11n20						
36	5180	12.39	0.09	12.48	24.00	PASS
40	5200	12.32	0.09	12.41	24.00	PASS
48	5240	12.76	0.09	12.85	24.00	PASS
802.11ac20						
36	5180	12.48	0.04	12.52	24.00	PASS
40	5200	12.75	0.04	12.79	24.00	PASS
48	5240	12.23	0.04	12.23	24.00	PASS
802.11n40						
38	5190	12.57	0.13	12.70	24.00	PASS
46	5230	12.21	0.13	12.34	24.00	PASS
802.11ac40						
38	5190	12.73	0.13	12.86	24.00	PASS
46	5230	12.13	0.13	12.26	24.00	PASS
802.11ac80						
42	5210	12.32	0.27	12.59	24.00	24.00

5725-5850MHz:

Channel	Frequency (MHz)	Output Power AV (dBm)	Duty factor (dB)	Output Power AV + Duty factor (dBm)	Limits (dBm)	Verdict
802.11a						
149	5745	12.79	0.04	12.83	30.00	PASS
157	5785	12.80	0.04	12.84	30.00	PASS
165	5825	12.14	0.04	12.18	30.00	PASS
802.11n20						
129	5745	12.32	0.09	12.41	30.00	PASS
157	5785	12.10	0.09	12.19	30.00	PASS
165	5825	12.84	0.09	12.93	30.00	PASS
802.11ac20						
149	5745	12.61	0.04	12.65	30.00	PASS
157	5785	12.41	0.04	12.45	30.00	PASS
165	5825	12.33	0.04	12.37	30.00	PASS
802.11n40						
151	5755	12.59	0.13	12.72	30.00	PASS
159	5795	12.25	0.13	12.38	30.00	PASS
802.11ac40						
151	5755	12.56	0.13	12.69	30.00	PASS
159	5795	12.70	0.13	12.83	30.00	PASS
802.11ac80						
155	5775	12.35	0.32	12.67	30.00	PASS

**Antenna 1:
5150-5250MHz:**

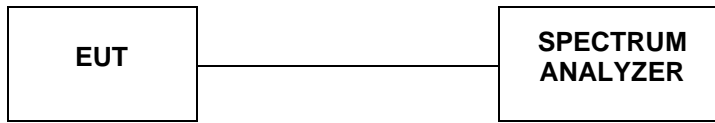
Channel	Frequency (MHz)	Output Power AV (dBm)	Duty factor (dB)	Output Power AV + Duty factor (dBm)	Limits (dBm)	Verdict
802.11a						
36	5180	12.15	0.04	12.19	24.00	PASS
40	5200	12.46	0.04	12.50	24.00	PASS
48	5240	12.43	0.04	12.47	24.00	PASS
802.11n20						
36	5180	12.26	0.09	12.35	24.00	PASS
40	5200	12.62	0.09	12.71	24.00	PASS
48	5240	12.43	0.09	12.52	24.00	PASS
802.11ac20						
36	5180	12.29	0.09	12.38	24.00	PASS
40	5200	12.53	0.09	12.62	24.00	PASS
48	5240	12.72	0.09	12.81	24.00	PASS
802.11n40						
38	5190	12.70	0.13	12.83	24.00	PASS
46	5230	12.57	0.13	12.70	24.00	PASS
802.11ac40						
38	5190	12.56	0.13	12.69	24.00	PASS
46	5230	12.02	0.13	12.15	24.00	PASS
802.11ac80						
42	5210	12.41	0.27	12.68	24.00	24.00

5725-5850MHz:

Channel	Frequency (MHz)	Output Power AV (dBm)	Duty factor (dB)	Output Power AV + Duty factor (dBm)	Limits (dBm)	Verdict
802.11a						
149	5745	12.42	0.04	12.46	30.00	PASS
157	5785	12.04	0.04	12.08	30.00	PASS
165	5825	12.30	0.04	12.34	30.00	PASS
802.11n20						
149	5745	12.62	0.09	12.71	30.00	PASS
157	5785	12.20	0.09	12.29	30.00	PASS
165	5825	12.87	0.09	12.96	30.00	PASS
802.11ac20						
149	5745	12.26	0.04	12.30	30.00	PASS
157	5785	12.84	0.04	12.88	30.00	PASS
165	5825	12.09	0.04	12.13	30.00	PASS
802.11n40						
151	5755	12.23	0.13	12.36	30.00	PASS
159	5795	12.50	0.13	12.63	30.00	PASS
802.11ac40						
151	5755	12.07	0.13	12.20	30.00	PASS
159	5795	12.36	0.13	12.49	30.00	PASS
802.11ac80						
155	5775	12.39	0.27	12.66	30.00	PASS

4.5. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 789033 D02 General UNII Test Procedures New Rules v01 F: The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission

- a. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- b. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- c. Make the following adjustments to the peak value of the spectrum, if applicable:
 1. If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 2.) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- d. The result is the Maximum PSD over 1 MHz reference bandwidth.
- e. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
 1. Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
 2. Set $VBW \geq 3 RBW$.
 3. If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500kHz/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 4. If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1MHz/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 5. Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 KHz$ is available on nearly all spectrum analyzers.
- f. Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).

LIMIT

According to §15.407(a): The maximum output power should be not exceed follow:

Frequency Range (MHz)	Limit
5150-5250	Other than Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz
5250-5350	11dBm/MHz
5470-5725	11dBm/MHz
5725-5850	30dBm/500kHz

TEST RESULTS

Temperature	24.2°C	Humidity	54.9%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

Antenna 0:
5150-5250MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	6.19	0.04	0	6.23	11	PASS
40	5200	6.11	0.04	0	6.15	11	PASS
48	5240	5.74	0.04	0	5.78	11	PASS

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	6.22	0.09	0	6.31	11	PASS
40	5200	6.19	0.09	0	6.28	11	PASS
48	5240	5.18	0.09	0	5.27	11	PASS

802.11ac20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	7.03	0.04	0	7.07	11	PASS
40	5200	6.58	0.04	0	6.62	11	PASS
48	5240	5.34	0.04	0	5.38	11	PASS

802.11n40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
38	5190	2.44	0.13	0	2.57	11	PASS
46	5230	2.12	0.13	0	2.25	11	PASS

802.11ac40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
38	5190	2.90	0.13	0	3.03	11	PASS
46	5230	2.48	0.13	0	2.61	11	PASS

802.11ac80 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
42	5210	0.19	0.27	0	0.46	11	PASS

5725-5850MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	3.52	0.04	2.20	5.76	30	PASS
157	5785	3.93	0.04	2.20	6.17	30	PASS
165	5825	5.21	0.04	2.20	7.45	30	PASS

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	3.78	0.09	2.20	6.07	30	PASS
157	5785	4.13	0.09	2.20	6.42	30	PASS
165	5825	4.95	0.09	2.20	7.24	30	PASS

802.11ac20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	4.21	0.04	2.20	6.45	30	PASS
157	5785	3.92	0.04	2.20	6.16	30	PASS
165	5825	4.15	0.04	2.20	6.39	30	PASS

802.11n40Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5755	0.05	0.13	2.20	2.38	30	PASS
157	5795	0.31	0.13	2.20	2.64	30	PASS

802.11ac40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5755	-0.32	0.13	2.20	2.01	30	PASS
157	5795	1.30	0.13	2.20	3.63	30	PASS

802.11ac80 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
155	5775	-2.78	0.32	2.20	-0.26	30	PASS

Antenna 1:
5150-5250MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	6.38	0.04	0	6.42	11	PASS
40	5200	6.37	0.04	0	6.41	11	PASS
48	5240	5.72	0.04	0	5.76	11	PASS

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	6.28	0.09	0	6.37	11	PASS
40	5200	5.67	0.09	0	5.76	11	PASS
48	5240	5.45	0.09	0	5.54	11	PASS

802.11ac20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
36	5180	6.16	0.09	0	6.25	11	PASS
40	5200	5.82	0.09	0	5.91	11	PASS
48	5240	5.64	0.09	0	5.73	11	PASS

802.11n40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
38	5190	2.82	0.13	0	2.95	11	PASS
46	5230	2.41	0.13	0	2.54	11	PASS

802.11ac40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
38	5190	2.75	0.13	0	2.88	11	PASS
46	5230	1.87	0.13	0	2.00	11	PASS

802.11ac80 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/1MHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/1MHz)	Limits (dBm/1MHz)	Verdict
42	5210	-1.93	0.27	0	-1.66	11	PASS

5725-5850MHz:

802.11a Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	4.04	0.04	2.20	6.28	30	PASS
157	5785	4.56	0.04	2.20	6.80	30	PASS
165	5825	5.15	0.04	2.20	7.39	30	PASS

802.11n HT20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	3.81	0.09	2.20	6.10	30	PASS
157	5785	4.27	0.09	2.20	6.56	30	PASS
165	5825	4.39	0.09	2.20	6.68	30	PASS

802.11ac20 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5745	3.46	0.04	2.20	5.70	30	PASS
157	5785	4.58	0.04	2.20	6.82	30	PASS
165	5825	4.89	0.04	2.20	7.13	30	PASS

802.11n40Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5755	0.31	0.13	2.20	2.64	30	PASS
157	5795	0.80	0.13	2.20	3.13	30	PASS

802.11ac40 Test Mode

Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
149	5755	-0.19	0.13	2.20	2.14	30	PASS
157	5795	1.52	0.13	2.20	3.85	30	PASS

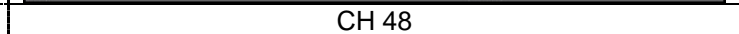
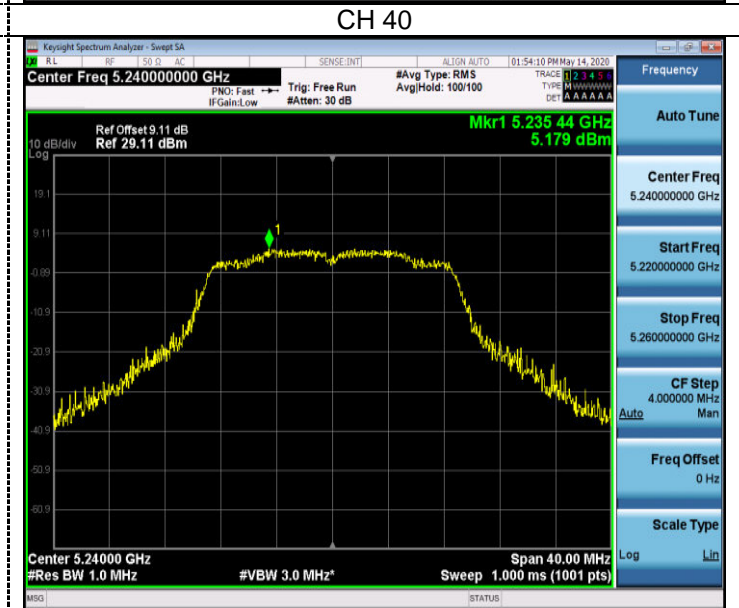
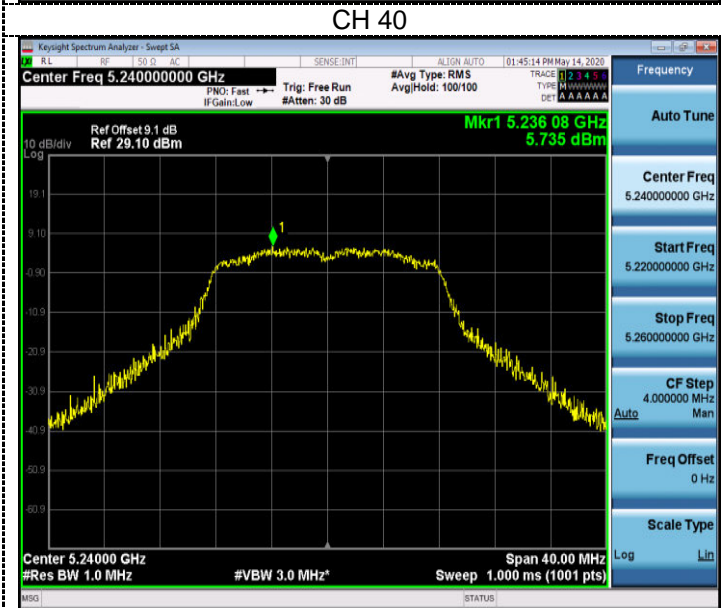
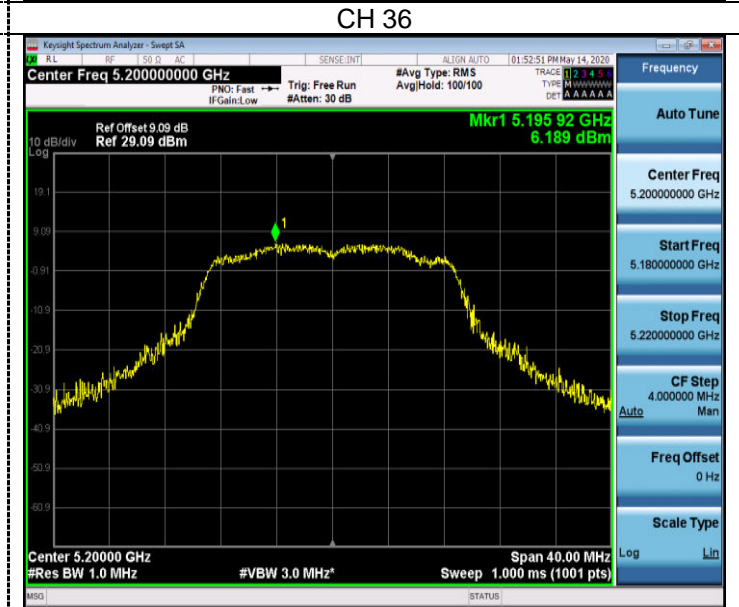
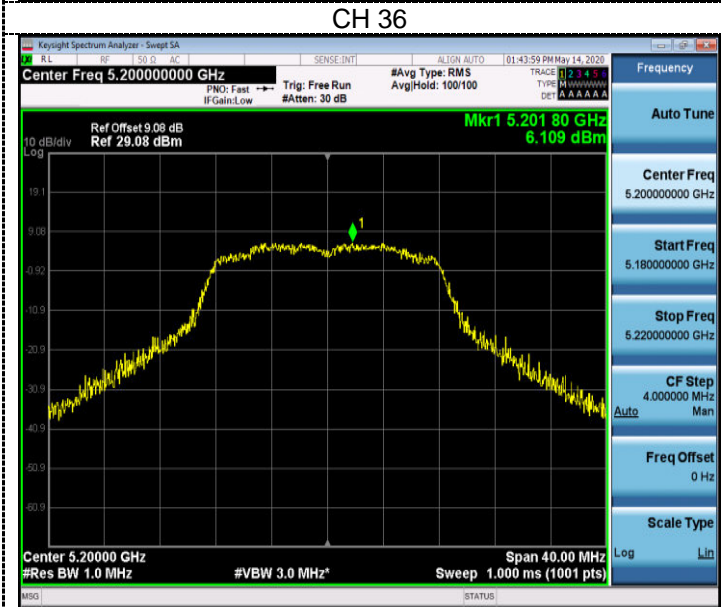
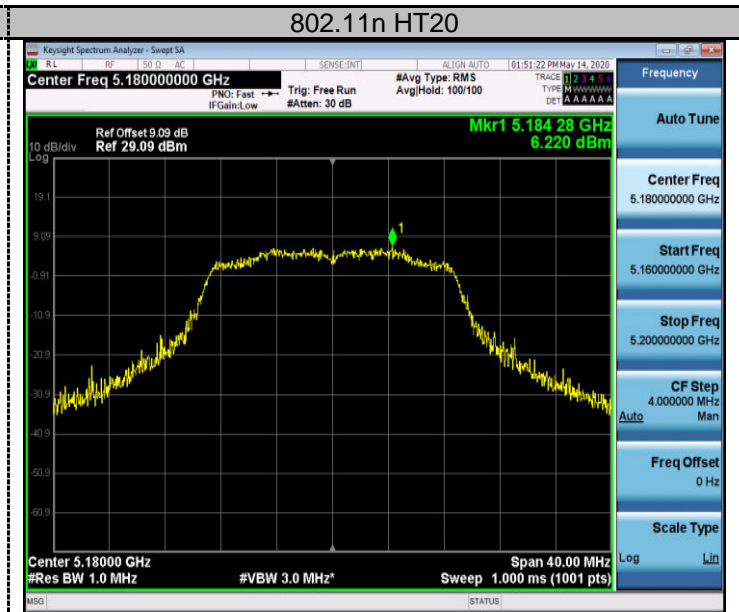
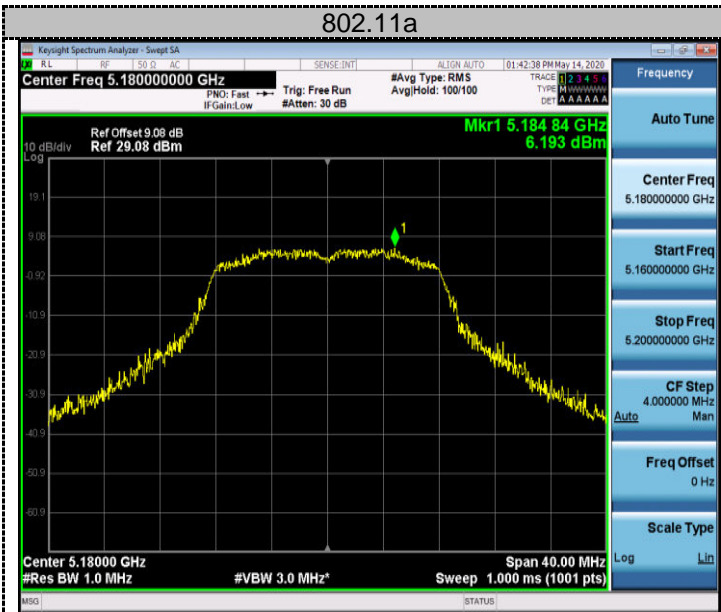
802.11ac80 Test Mode

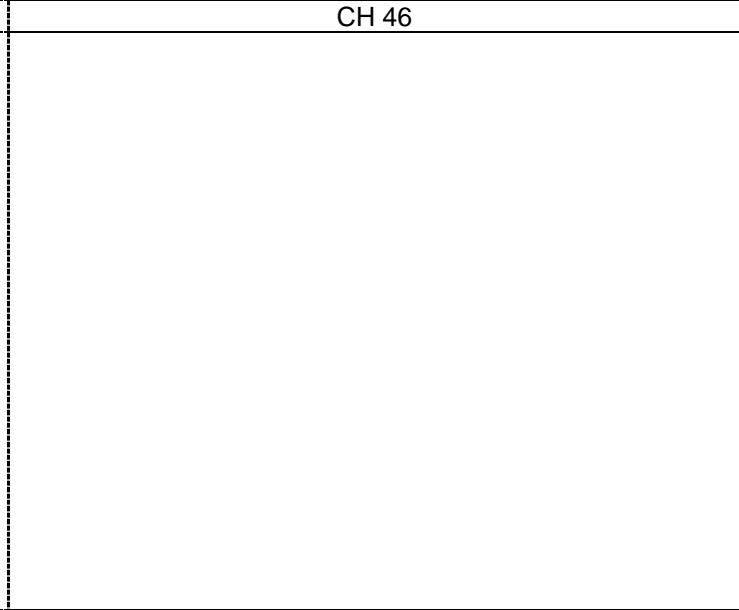
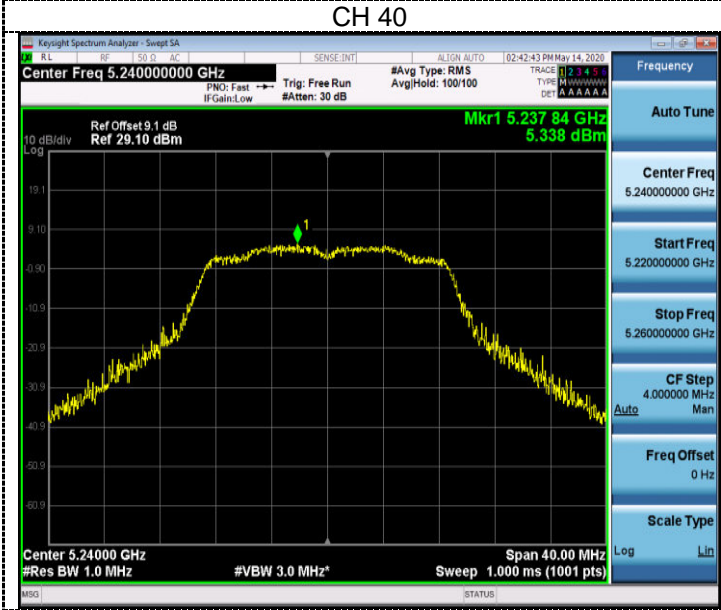
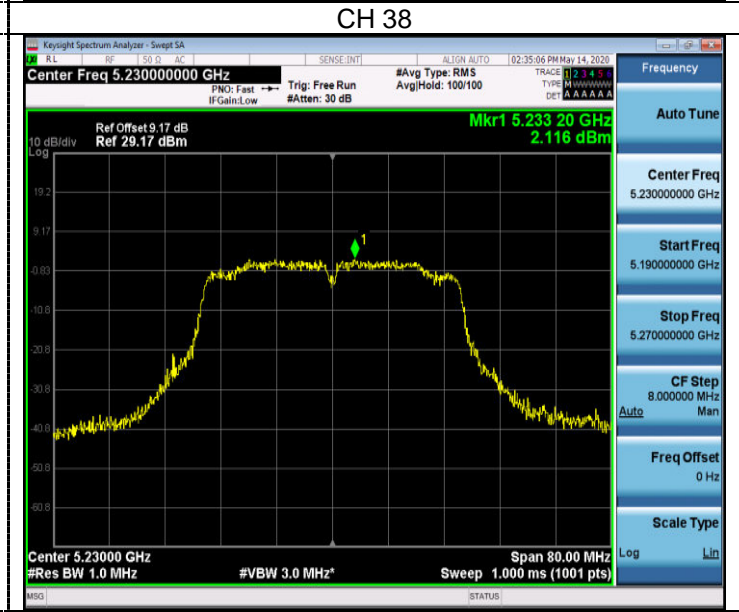
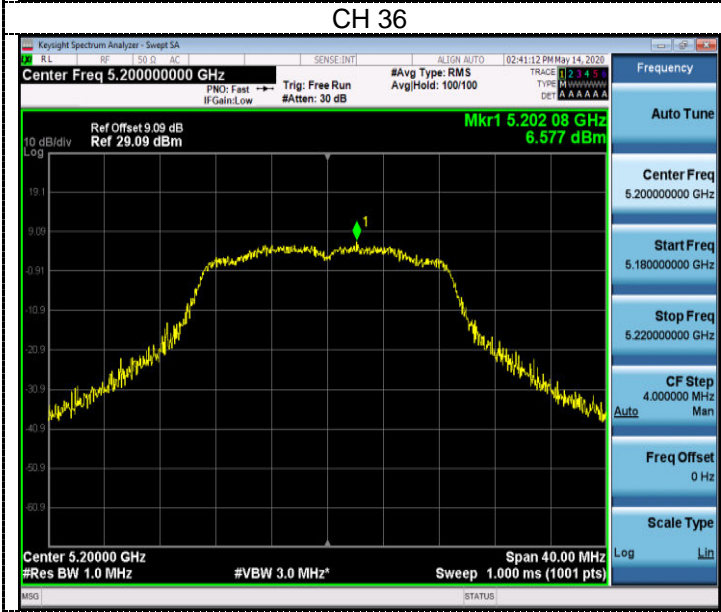
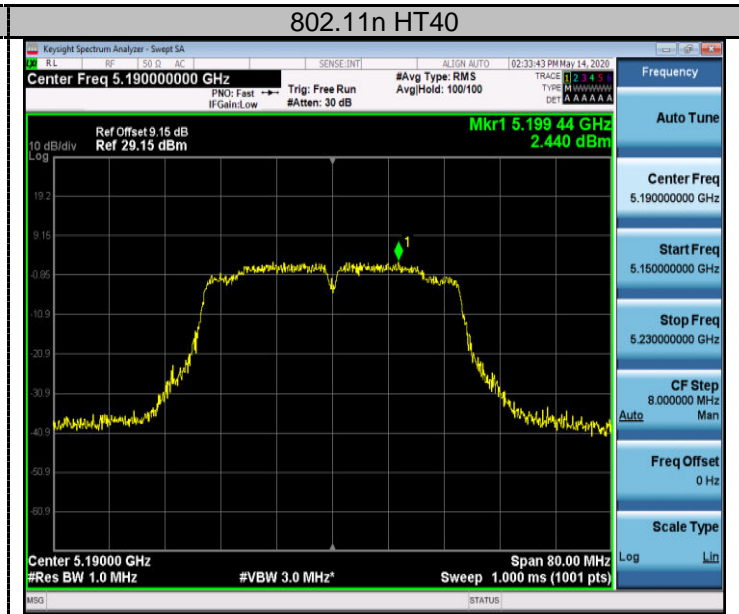
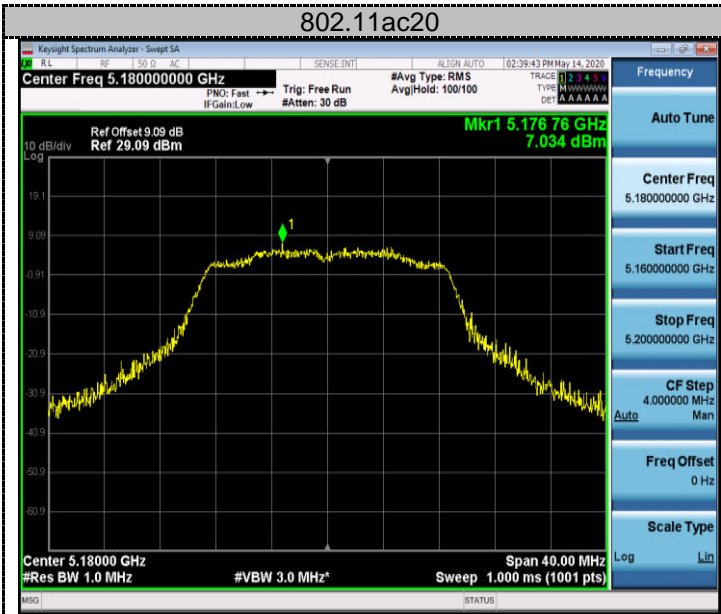
Channel	Frequency (MHz)	Report PSD (dBm/300KHz)	Duty factor (dB)	RBW factor (dB)	Report PSD+ Duty factor+ RBW factor (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
155	5775	-3.03	0.27	2.20	-0.56	30	PASS

Note:

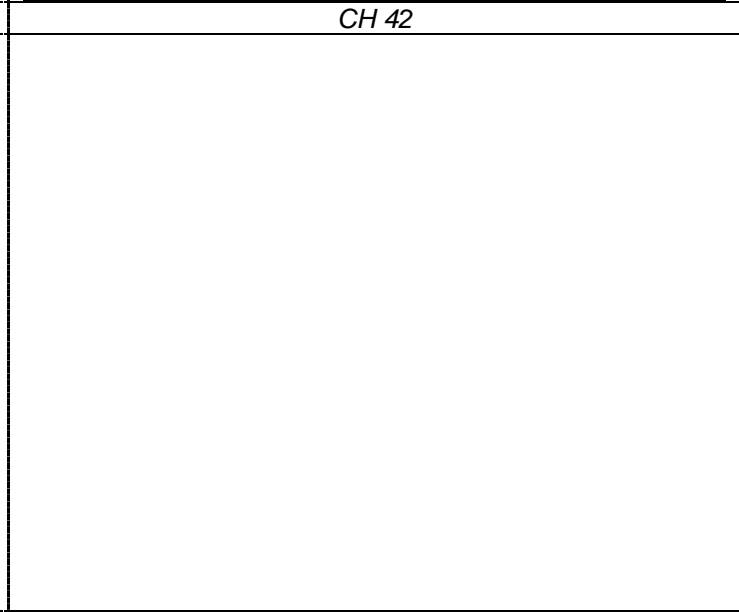
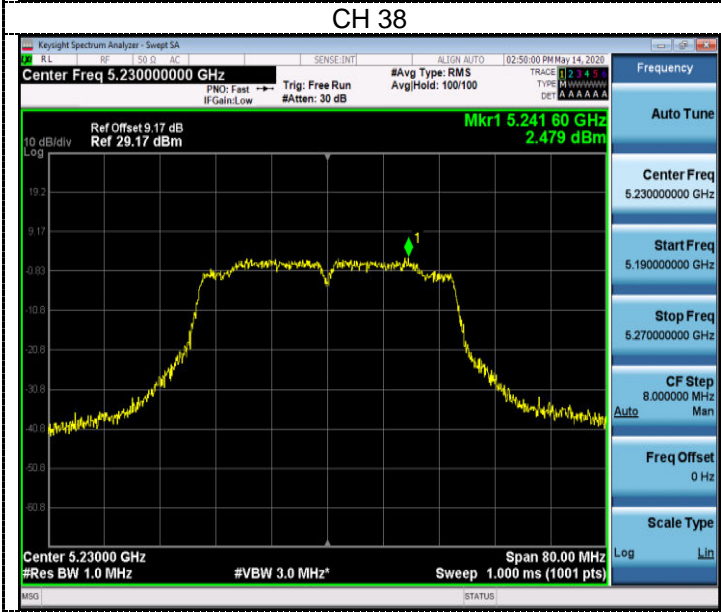
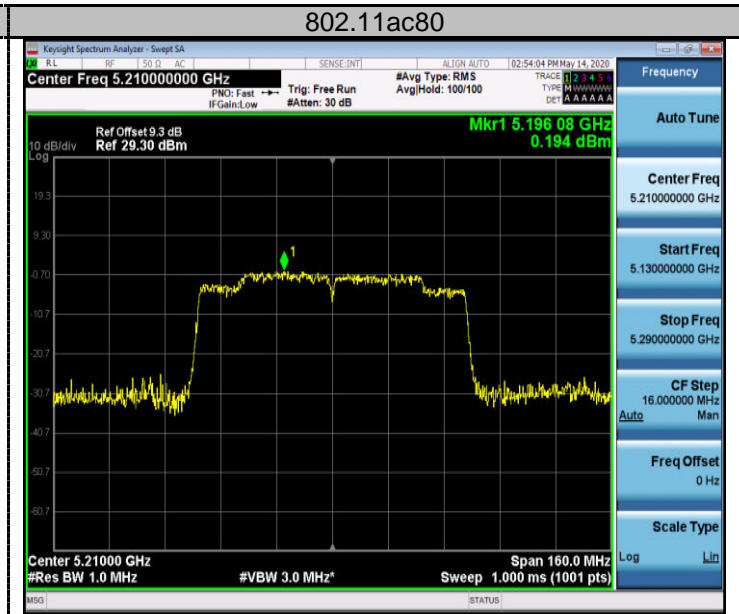
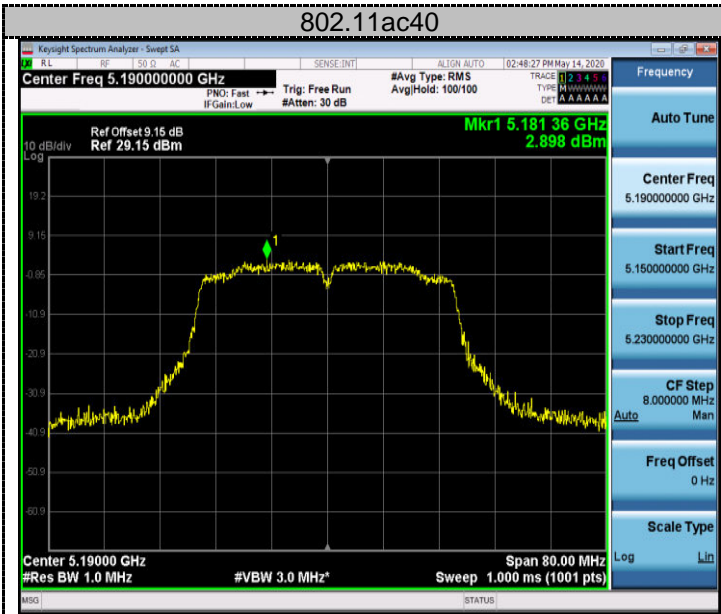
1. The test results including the cable lose.

Antenna 0:
5150-5250MHz:



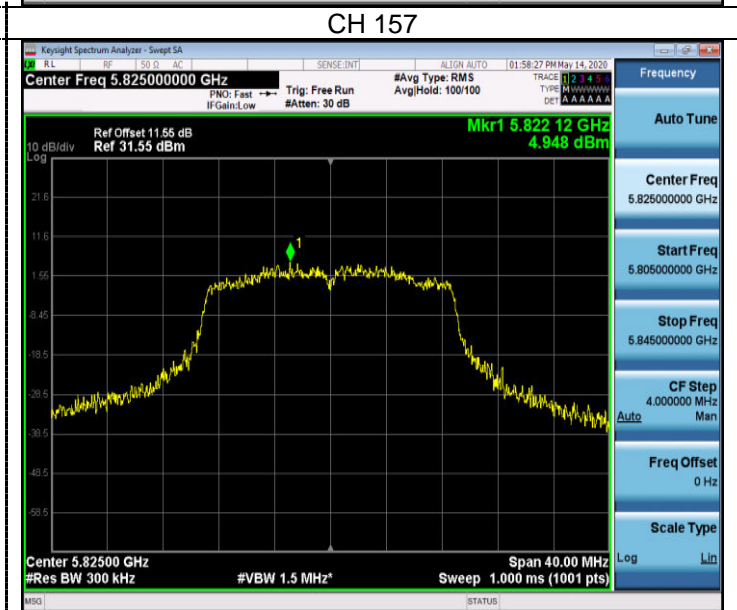
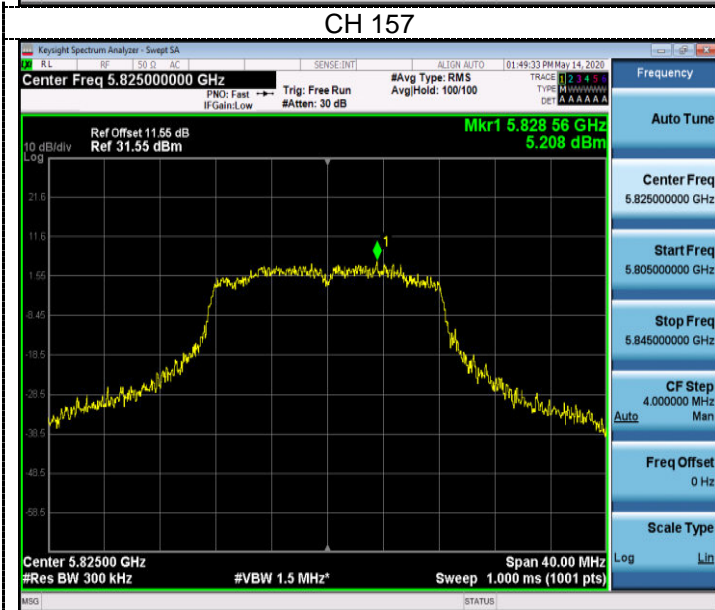
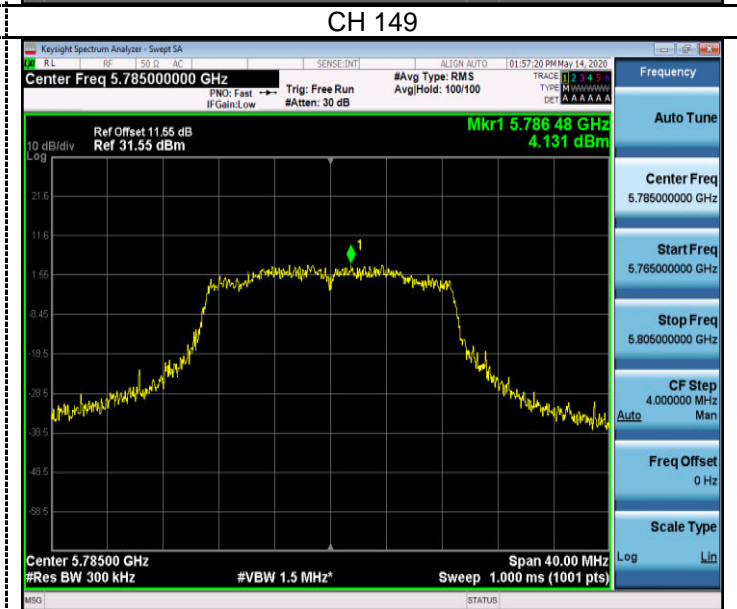
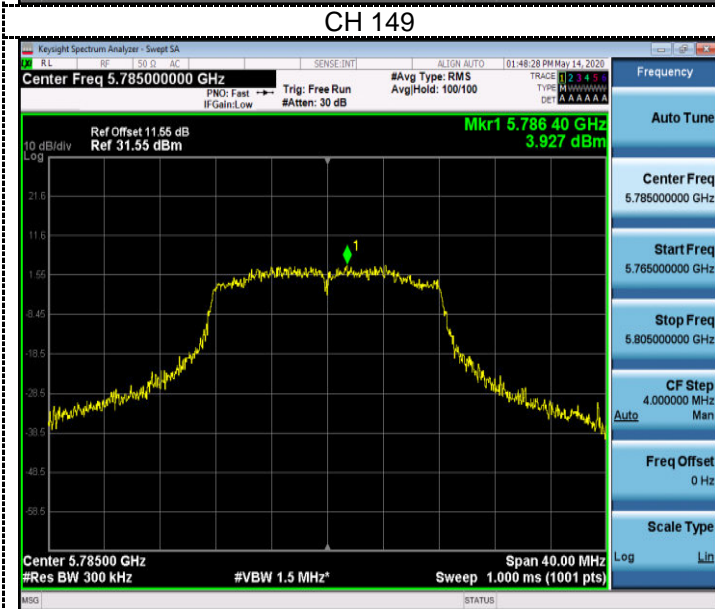
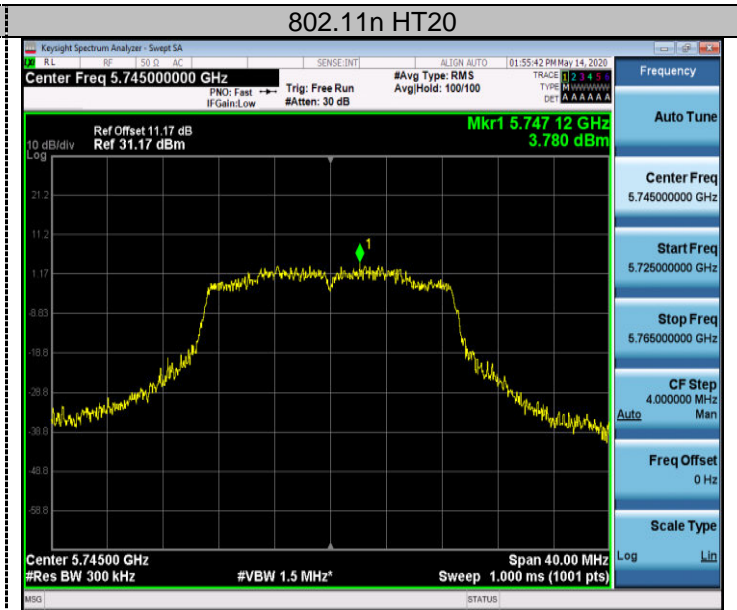
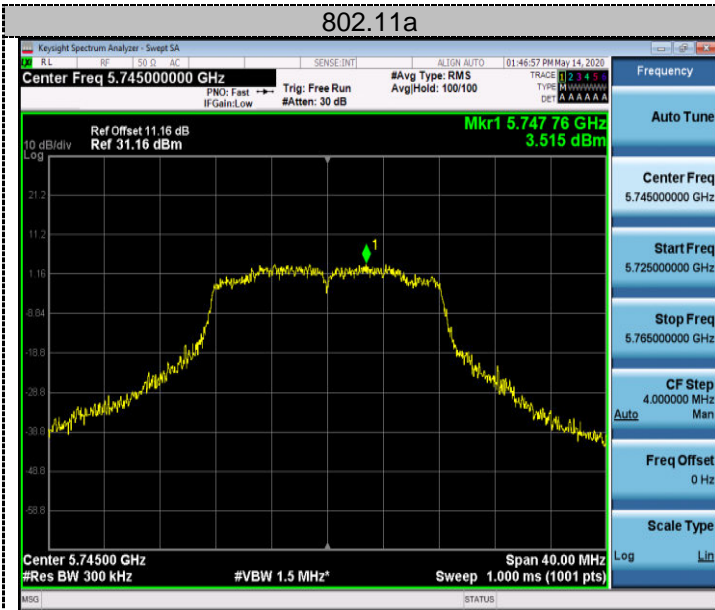


CH 48



CH 46

5725-5850MHz:



CH 165

CH 165