

FCC ID: 2ARRB-02736
Report No.: T210722W03-RP3

IC: 20353-02736

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART E

INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.407+ RSS-247 issue 2 and RSS-GEN issue 5
Product name	Wireless Car Adapter for Android Auto
Brand Name	Motorola
Model No.	MA1
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Kevin Tsai
Deputy Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 14, 2021	Initial Issue	ALL	Doris Chu

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Meizhou Guo Wei Electronics Co., Ltd. AD1 Section, Economic Development Area, Dongsheng Industrial District, Meizhou, Guangdong, China.
Manufacturer	GOLDTEK TECHNOLOGY CO., Ltd. 16F., No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Equipment	Wireless Car Adapter for Android Auto
Model No.	MA1
Model Discrepancy	N/A
Trade Name	Motorola
Received Date	July 22, 2021
Date of Test	August 4 ~ September 16, 2021
Power Supply	Power from host device via USB.
HW Version	PVT(V2.0)
SW Version	build175-0.8.2.211953522
EUT Serial #	706655E754F6

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

1.2 EUT CHANNEL INFORMATION

Frequency Range	UNII-3	
	IEEE 802.11a	5745 MHz
	IEEE 802.11n HT 20 MHz	5745 MHz
	IEEE 802.11n HT 40 MHz	5755 MHz
	IEEE 802.11ac VHT 80 MHz	5775 MHz
Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 MHz mode: OFDM 3. IEEE 802.11n HT 40 MHz mode: OFDM 4. IEEE 802.11ac VHT 80 MHz mode: OFDM	

Remark:

1. Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels.

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☒ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☐ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☒ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Brand / Model	WIESON / ARY196-1757-099-00
Antenna Gain	Gain :2.28 dBi
Antenna Connector	N/A

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Jack Chen	-
Radiation	Jerry Chang	-
RF Conducted	Lance Chen	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Woken	WC12	CC003	06/28/2021	06/27/2022
Coaxial Cable	Woken	WC12	CC001	06/28/2021	06/27/2022
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022
Power Sensor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022
Bluetooth Test set	Anritsu	MT8852B	750013	05/10/2021	05/09/2022
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2021	09/06/2022
Software	Radio Test Software Ver.21				

Conducted Emission Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
CABLE	EMCI	CFD300-NL	CERF	06/28/2021	06/27/2022
EMI Test Receiver	R&S	ESCI	100064	07/05/2021	07/04/2022
LISN	SCHAFFNER	NNB 41	03/10013	02/02/2021	02/01/2022
Software	EZ-EMC(CCS-3A1-CE-wugu)				

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3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/19/2020	09/18/2021
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021
High Pass Filters	MICRO TRONICS	HPM13195	003	02/08/2021	02/07/2022
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/09/2020	12/08/2021
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/09/2020	12/08/2021
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022
Pre-Amplifier	HP	8449B	3008A00965	02/25/2021	02/24/2022
Pre-Amplifier	MITEQ	1625-3000	1490938	04/28/2021	04/27/2022
Signal Analyzer	R&S	FSV 40	101073	09/17/2020	09/16/2021
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

Remark: Each piece of equipment is scheduled for calibration once a year.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H	1000M-7260H

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 789033 D02, RSS-247 Issue 2 and RSS-GEN Issue 5.

2. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-Gen (6.8)	1.3	Antenna Requirement	Pass
15.207	RSS-Gen (8.8)	4.1	AC Conducted Emission	Pass
15.407(e)	RSS-247(6.2.4)	4.2	6dB Bandwidth	Pass
-	RSS-Gen (6.7)	4.2	Occupied Bandwidth (99%)	Pass
15.407(a)	RSS-247(6.2.4.1)	4.3	Output Power Measurement	Pass
15.407(a)	RSS-247(6.2.4.1)	4.4	Power Spectral Density	Pass
15.407(b)	RSS-247(6.2.4.2)	4.5	Radiation Band Edge	Pass
15.407(b)	RSS-247(6.2.4.2)	4.5	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE EUT CHANNEL NUMBER OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT 20 MHz mode: MCS0 3. IEEE 802.11n HT 40 MHz mode: MCS0 4. IEEE 802.11ac VHT 80 MHz mode: MCS0			
Operating Frequency		Mode	Frequency Range (MHz)	
	U-NII-3	IEEE 802.11a	5745	
		IEEE 802.11n HT 20 MHz	5745	
		IEEE 802.11n HT 40 MHz	5755	
		IEEE 802.11ac VHT 80 MHz	5775	

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT power by USB
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by USB
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☒ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by USB
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in two axis ,X,Y and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

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3.3 EUT DUTY CYCLE

Temperature: 22.9°C

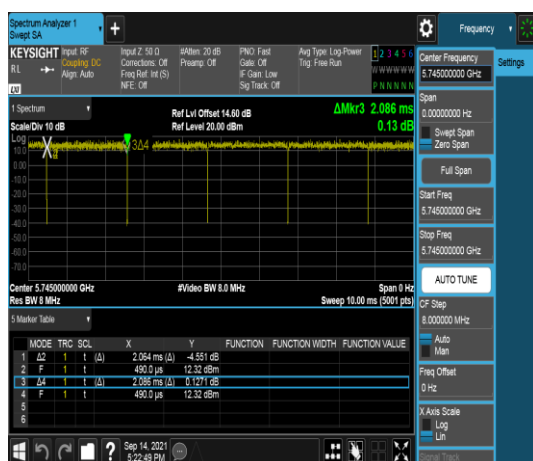
Humidity: 58% RH

Tested by: Lance Chen

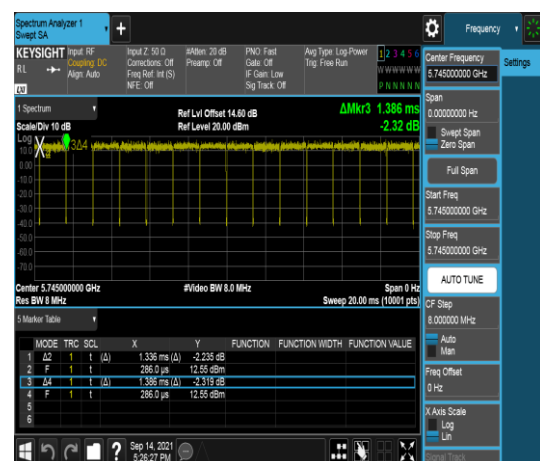
Test date: September 14, 2021

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.95	0.05	0.48	0.01
802.11n HT20	96.39	0.16	0.75	1.00
802.11n HT40	90.44	0.44	1.06	2.00
802.11ac VHT80	82.14	0.85	2.17	3.00

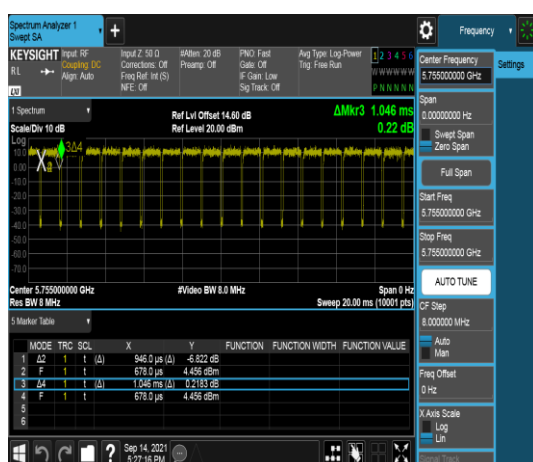
802.11a



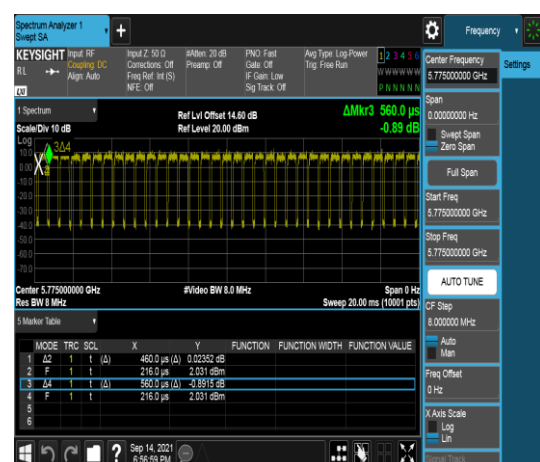
802.11n HT20



802.11n HT40



802.11ac VHT80



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

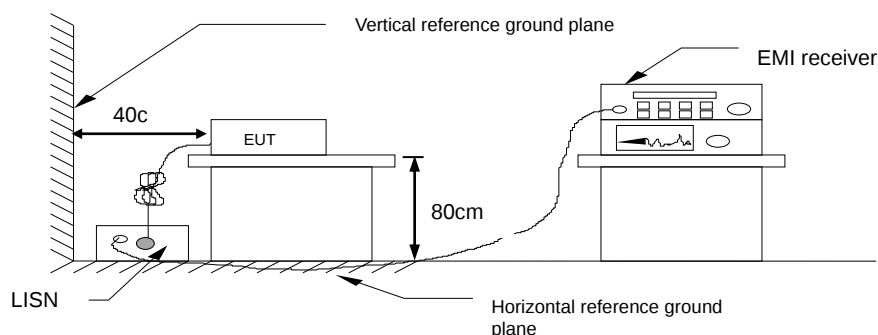
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-Peak and Average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

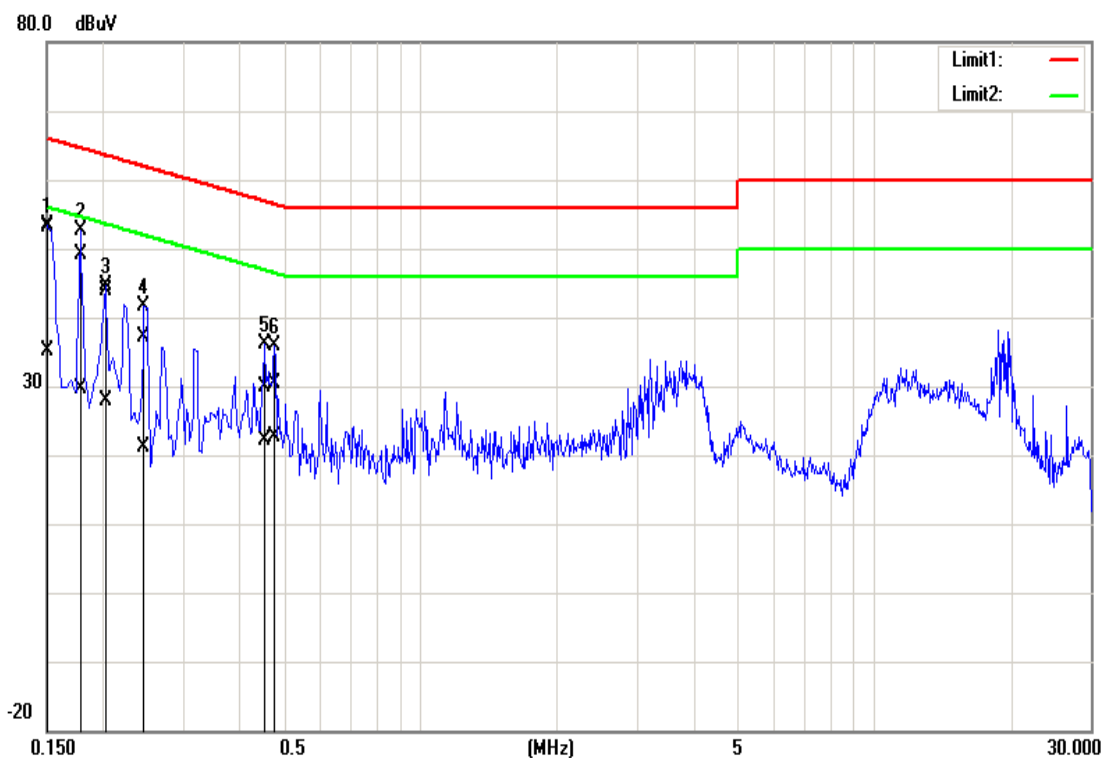


4.1.4 Test Result

PASS

Test Data

Test Mode:	Mode 1	Temp/Hum	25(°C)/ 46%RH
Phase:	Line	Test Date	August 4, 2021
		Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1500	42.78	24.90	10.26	53.04	35.16	66.00	56.00	-12.96	-20.84	Pass
0.1780	38.82	19.26	10.26	49.08	29.52	64.58	54.58	-15.50	-25.06	Pass
0.2020	33.57	17.60	10.26	43.83	27.86	63.53	53.53	-19.70	-25.67	Pass
0.2460	26.76	10.77	10.26	37.02	21.03	61.89	51.89	-24.87	-30.86	Pass
0.4540	19.56	11.80	10.26	29.82	22.06	56.80	46.80	-26.98	-24.74	Pass
0.4780	20.17	12.35	10.26	30.43	22.61	56.37	46.37	-25.94	-23.76	Pass

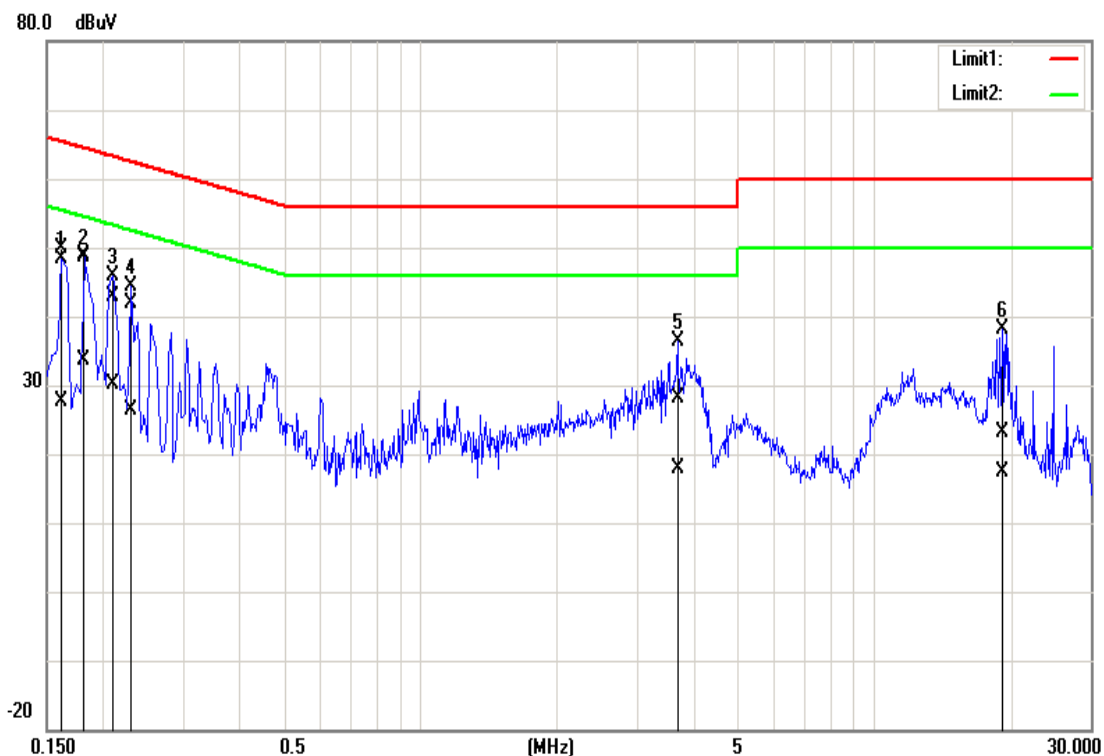
Note: Correction factor = LISN loss + Cable loss.

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Test Mode:	Mode 1	Temp/Hum	25(°C)/ 46%RH
Phase:	Neutral	Test Date	August 4, 2021
		Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	39.55	17.30	10.26	49.81	27.56	65.36	55.36	-15.55	-27.80	Pass
0.1820	38.67	23.33	10.26	48.93	33.59	64.39	54.39	-15.46	-20.80	Pass
0.2100	32.70	19.88	10.26	42.96	30.14	63.21	53.21	-20.25	-23.07	Pass
0.2300	31.70	16.02	10.26	41.96	26.28	62.45	52.45	-20.49	-26.17	Pass
3.6940	17.83	7.60	10.35	28.18	17.95	56.00	46.00	-27.82	-28.05	Pass
19.2220	12.55	6.99	10.50	23.05	17.49	60.00	50.00	-36.95	-32.51	Pass

Note: Correction factor = LISN loss + Cable loss.

4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

6 dB Bandwidth : Least 500kHz.

Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

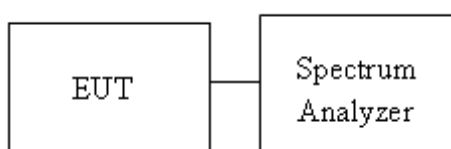
6dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

99%

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set center frequency to the nominal EUT channel center frequency.
3. Set span = 1.5 times to 5.0 times the OBW.
4. Set RBW = 1 % to 5% of the OBW.
5. Set VBW $\geq 3 \times$ RBW

4.2.3 Test Setup



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4.2.4 Test Result

Temperature: 22.9°C

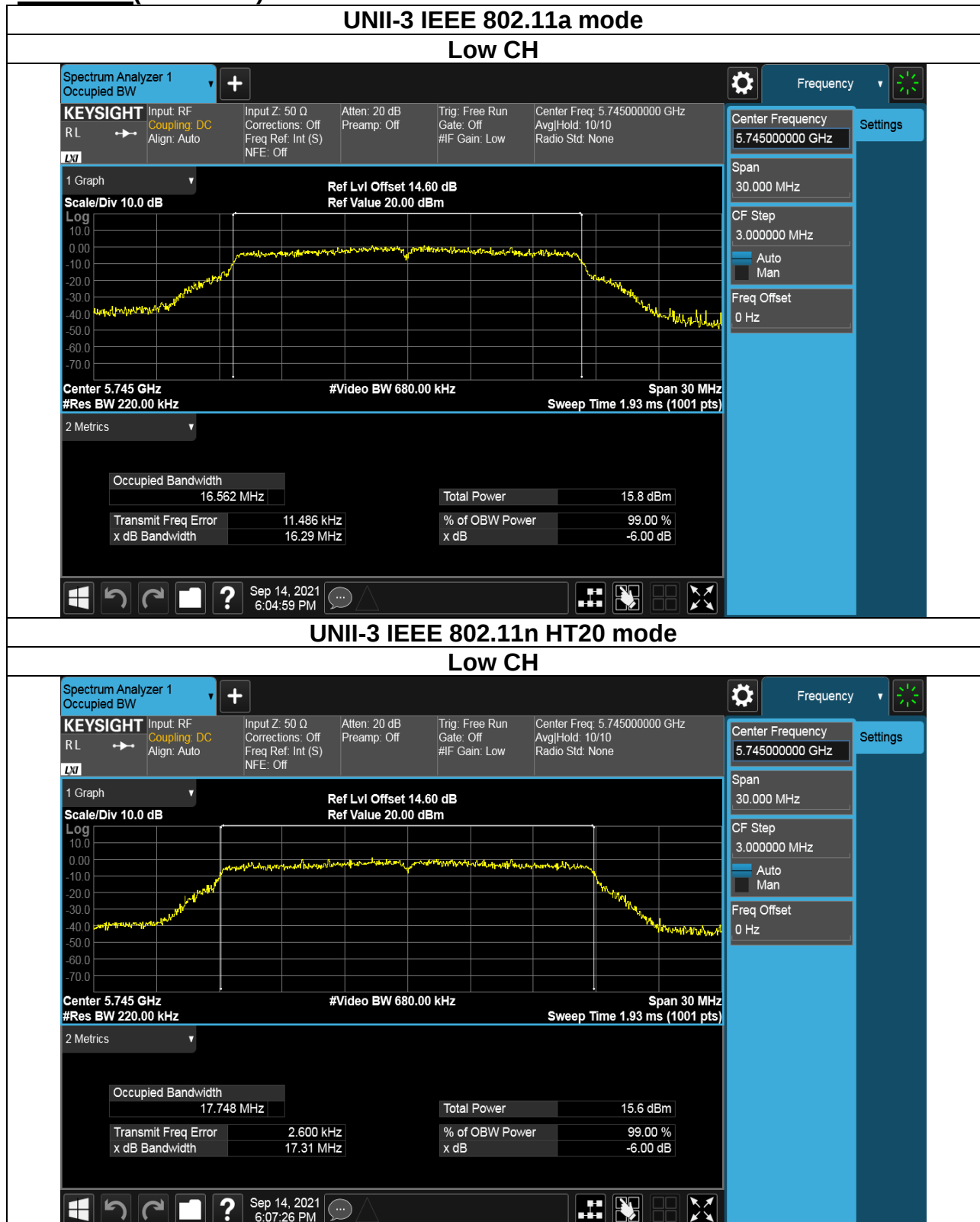
Humidity: 58% RH

Tested by: Lance Chen

Test date: September 14, 2021

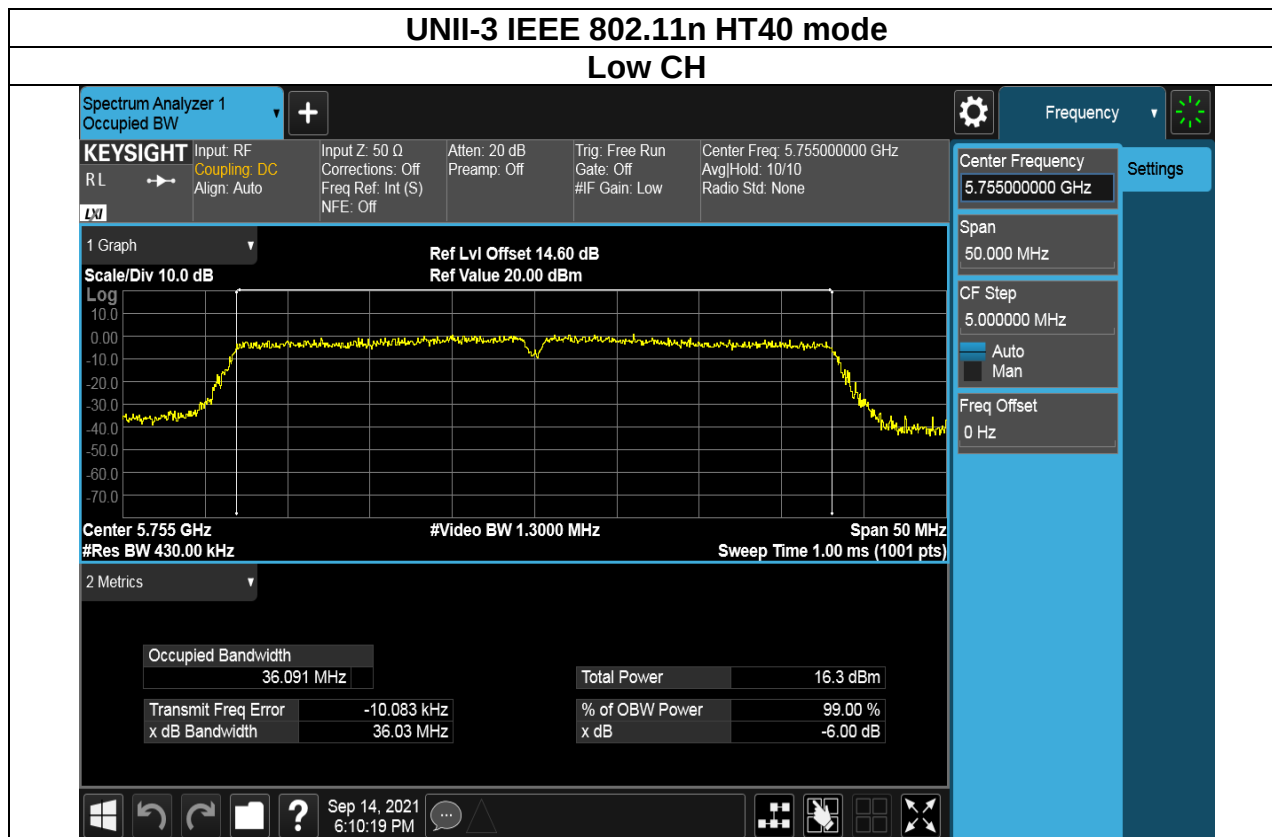
UNII-3 5725-5825MHz				
Test mode: IEEE 802.11a mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Low	5745	16.562	16.34	>500kHz
Test mode: IEEE 802.11n HT20 mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Low	5745	17.748	16.96	>500kHz
Test mode: IEEE 802.11n HT40 mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Low	5755	36.091	35.17	>500kHz
Test mode: IEEE 802.11ac VHT80 mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Mid	5775	75.393	75.26	>500kHz

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Test Data (99% OBW)**UNII-3 IEEE 802.11n HT20 mode****Low CH**

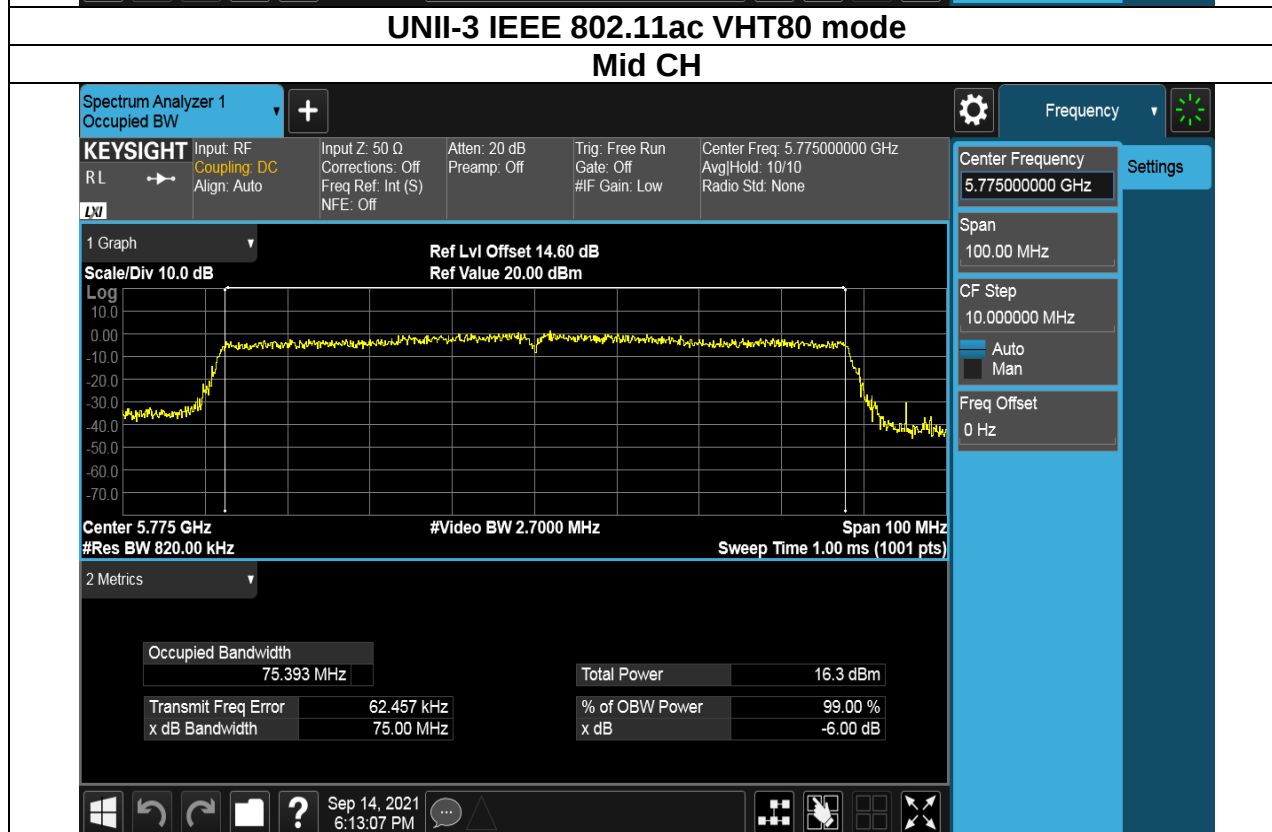
UNII-3 IEEE 802.11n HT40 mode

Low CH



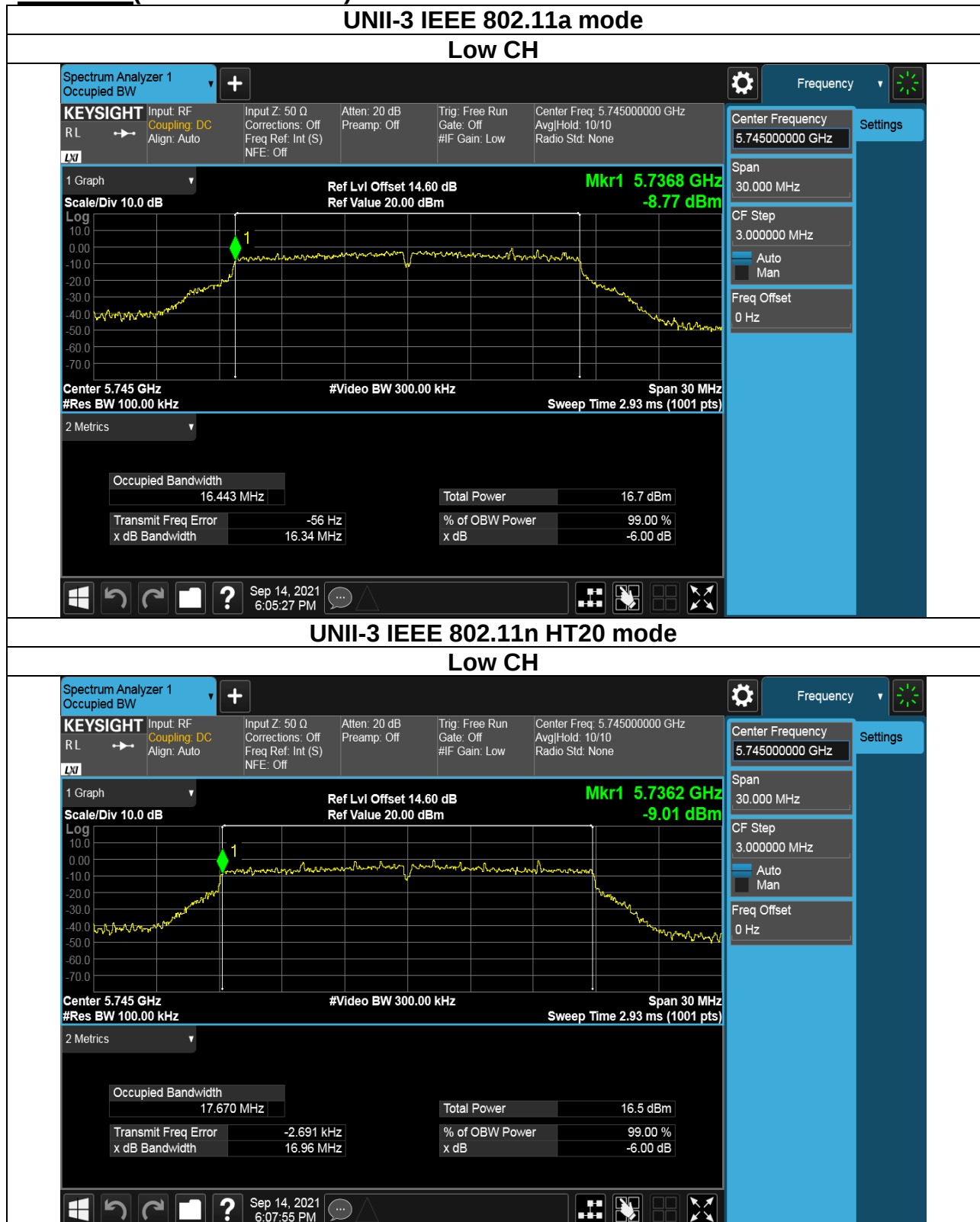
UNII-3 IEEE 802.11ac VHT80 mode

Mid CH



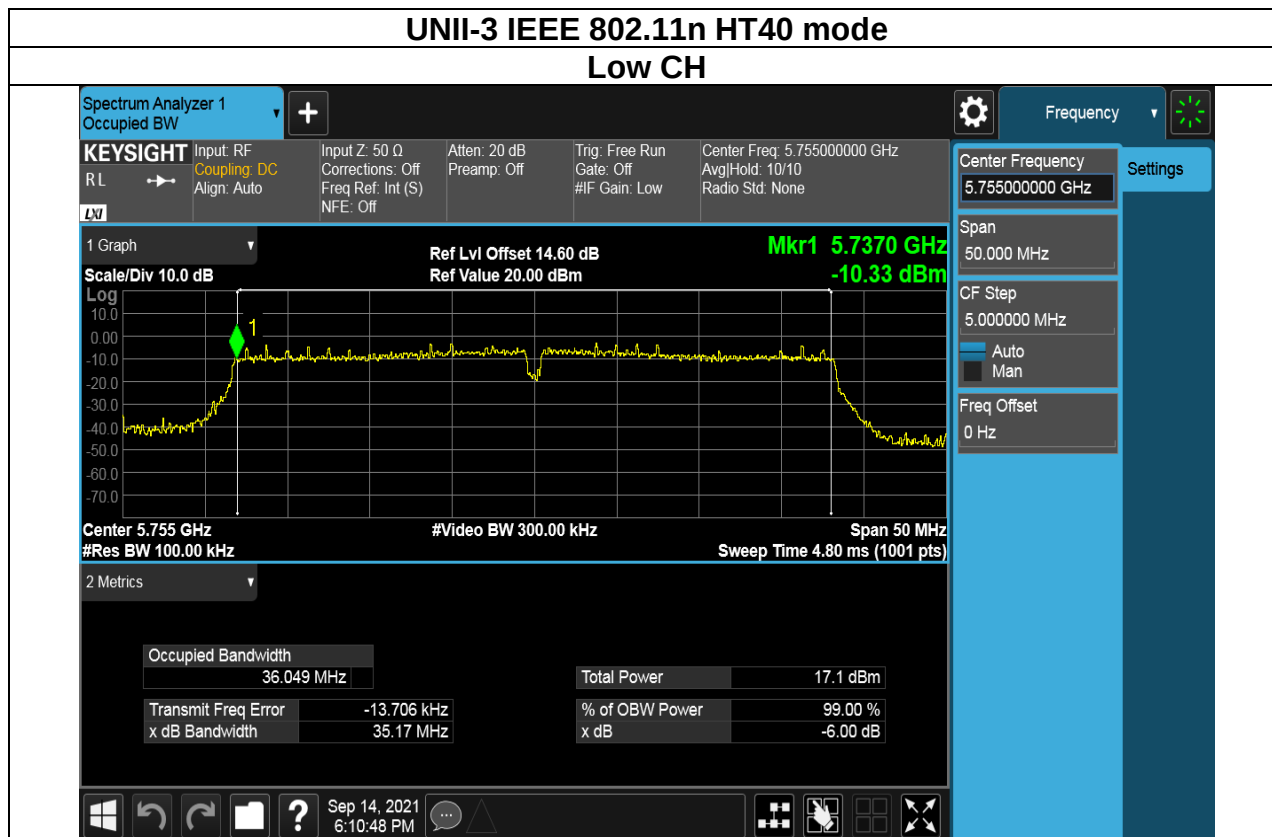
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Test Data (6dB BANDWIDTH)



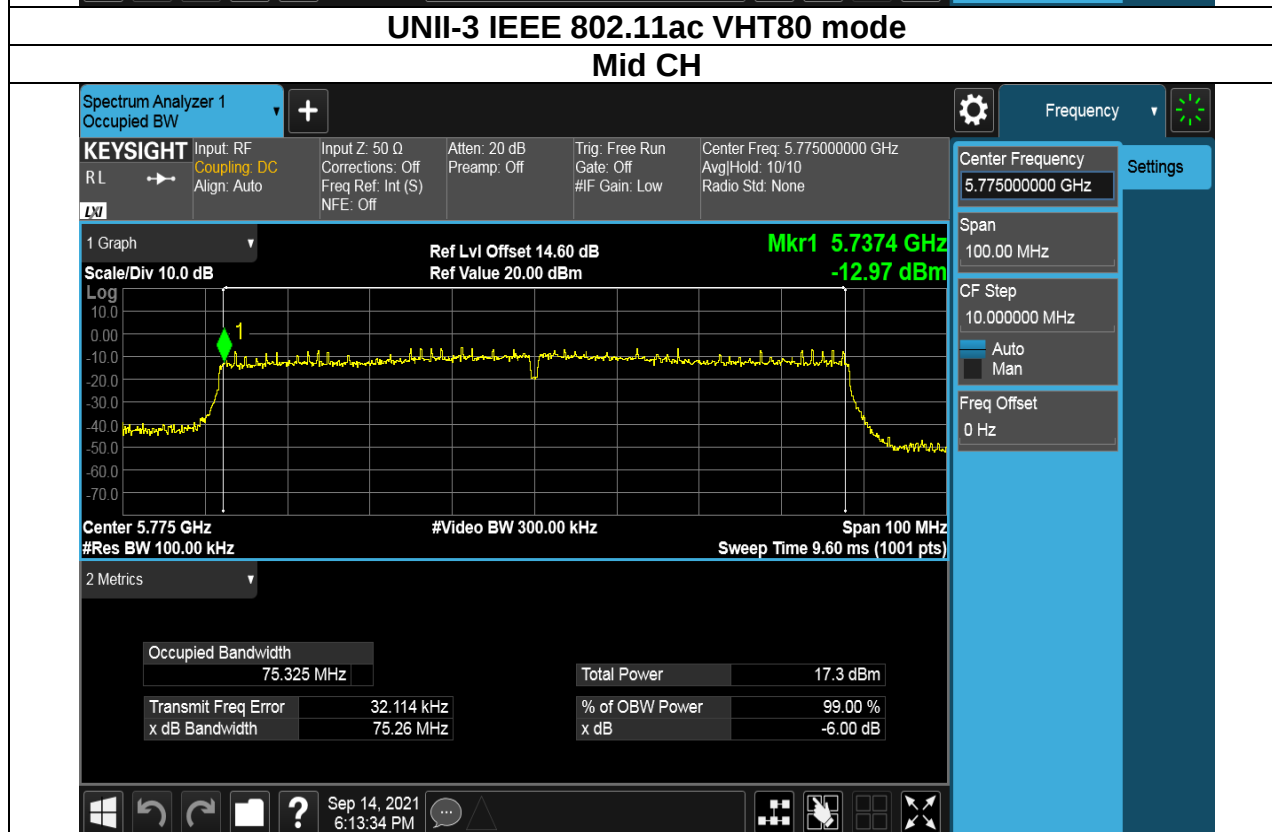
UNII-3 IEEE 802.11n HT40 mode

Low CH



UNII-3 IEEE 802.11ac VHT80 mode

Mid CH



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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to 15.407(a)(3), and RSS-247 section 6.2.4.1

FCC:

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC:

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3 Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]
--------------	--

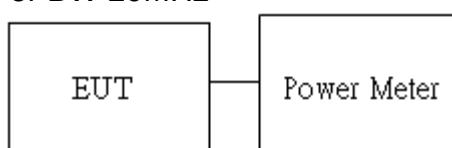
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz.

1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz



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4.3.4 Test Result

Temperature: 22.9°C

Humidity: 58% RH

Tested by: Lance Chen

Test date: September 14, 2021

FCC & IC AVG Power :**802.11a_Ch0**

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
149	5745	6	default	10.94	12.405	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	default	10.62	11.534	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	default	10.75	11.875	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	default	10.68	11.707	30	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to 15.407(a)(3)

According to RSS-247 section 6.2.4.1

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

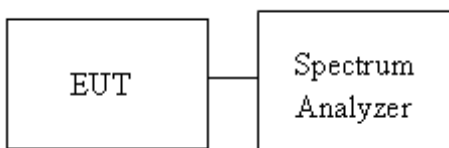
UNII-3 Limit	☒ Antenna not exceed 6 dBi : 30 dBm/500kHz ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]
--------------	--

4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-3, SA set RBW = 300kHz, VBW = 1MHz and Detector = RMS, to measurement Power Density
4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 22.9°C

Humidity: 58% RH

Tested by: Lance Chen

Test date: September 14, 2021

UNII-3 5725-5825 MHz						
POWER DENSITY 802.11a MODE						
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-3.795	0.00	2.22	-1.58	30.00 dBm/500kHz	-31.58

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5745	-4.063	0.16	2.22	-1.68	30.00 dBm/500kHz	-31.68

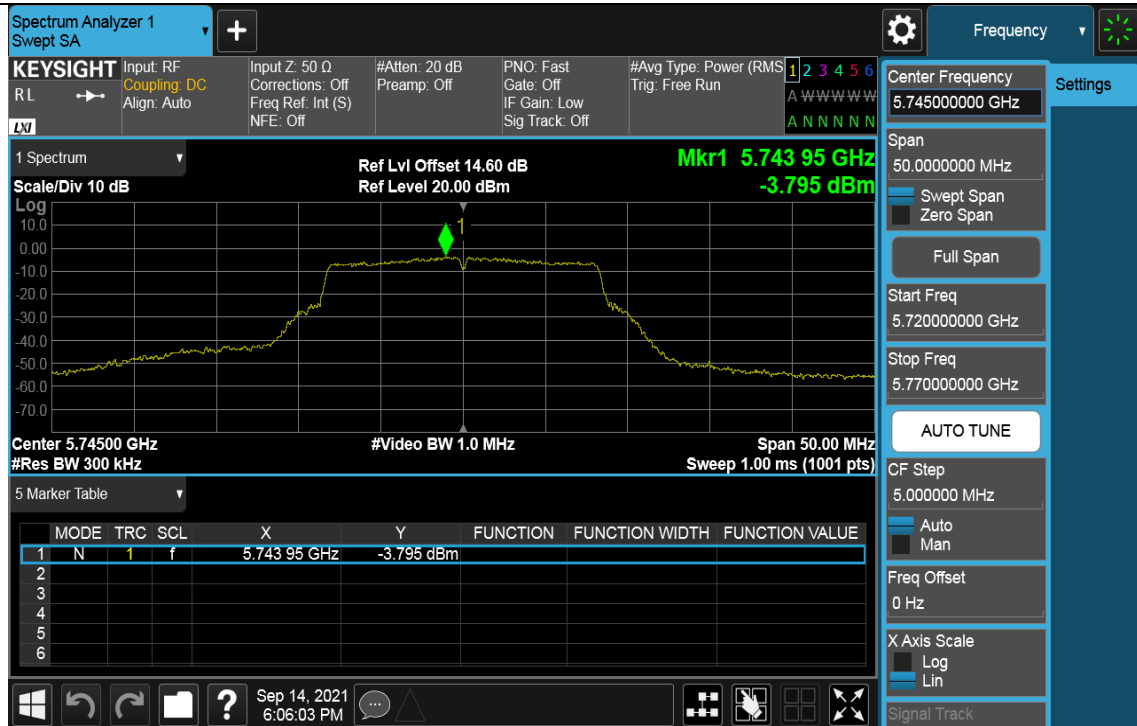
POWER DENSITY 802.11n HT40 mode						
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5755	-7.621	0.44	2.22	-4.96	30.00 dBm/500kHz	-34.96

POWER DENSITY 802.11ac VHT80 mode						
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5775	-10.710	0.85	2.22	-7.64	30.00 dBm/500kHz	-37.64

Test Data

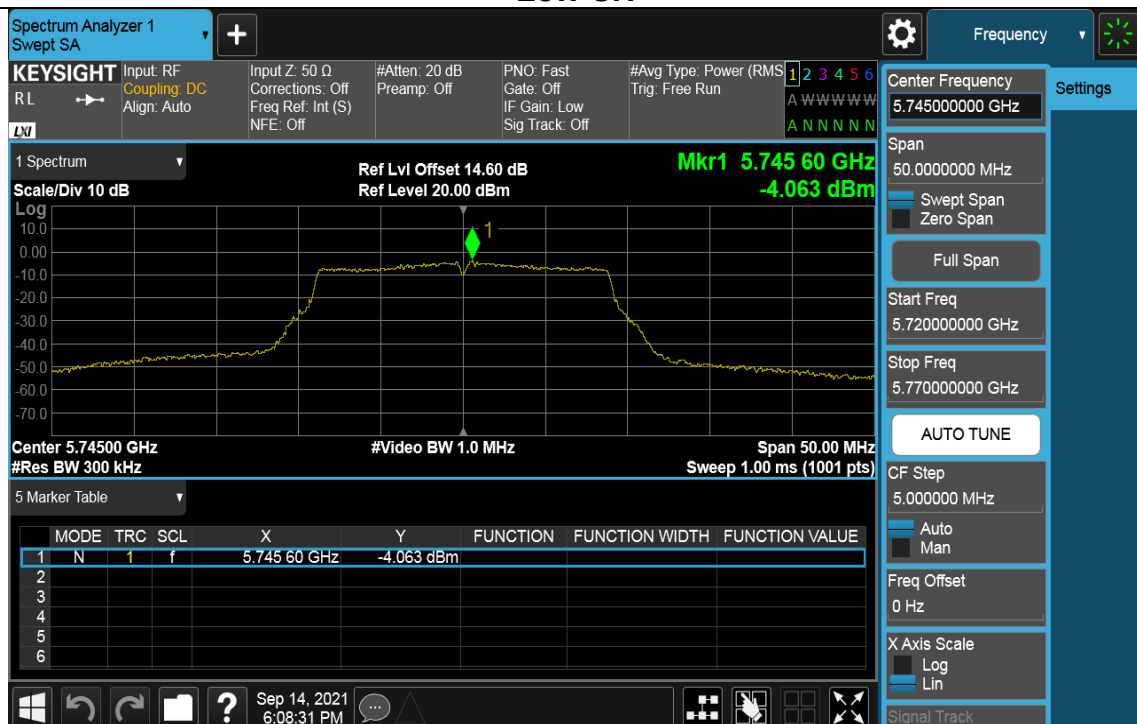
UNII-3 IEEE 802.11a mode

Low CH



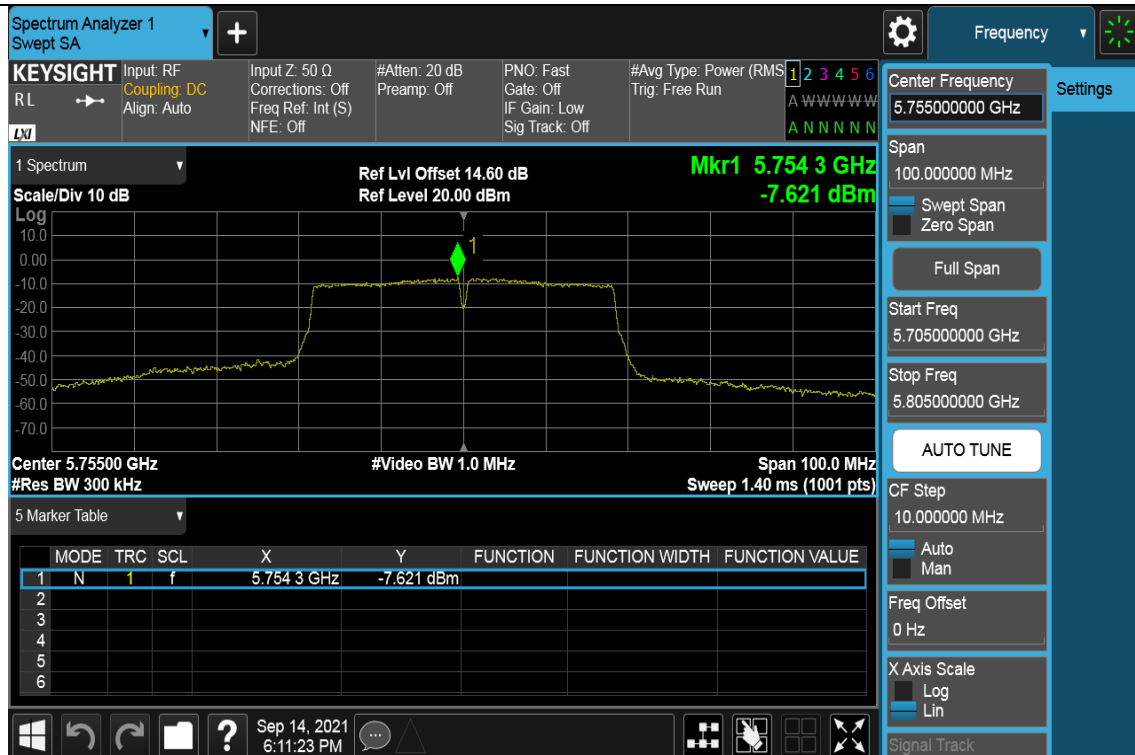
UNII-3 IEEE 802.11n HT20 mode

Low CH



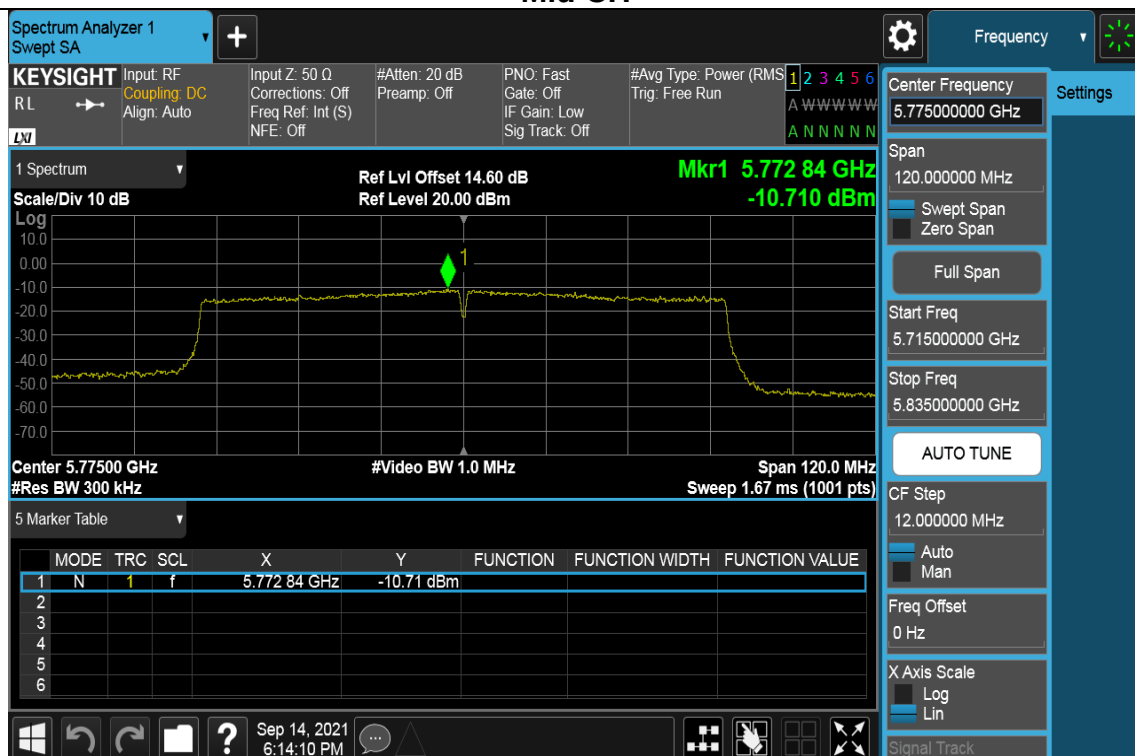
UNII-3 IEEE 802.11n HT40 mode

Low CH



UNII-3 IEEE 802.11ac VHT80 mode

Mid CH



4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.407, §15.209 and §15.205,
According to RSS-247 section 6.2.4.2,

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector..

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)
5. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G :
 - (2.1) For Peak measurement : RBW = 1MHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
If Duty Cycle $\geq 98\%$, VBW=10Hz.
If Duty Cycle $< 98\%$, VBW=1/T.

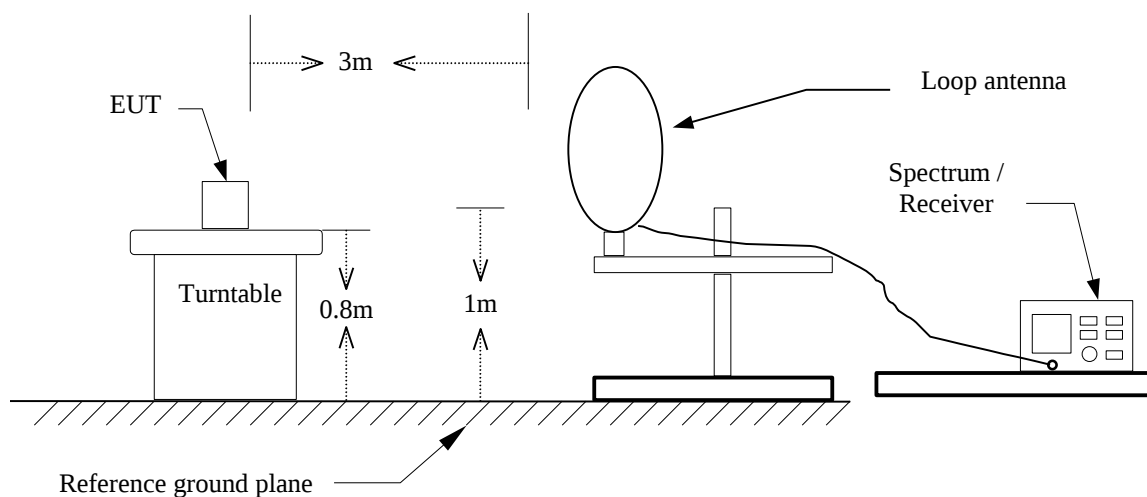
6. Data result

Actual FS=Spectrum Reading Level+Factor

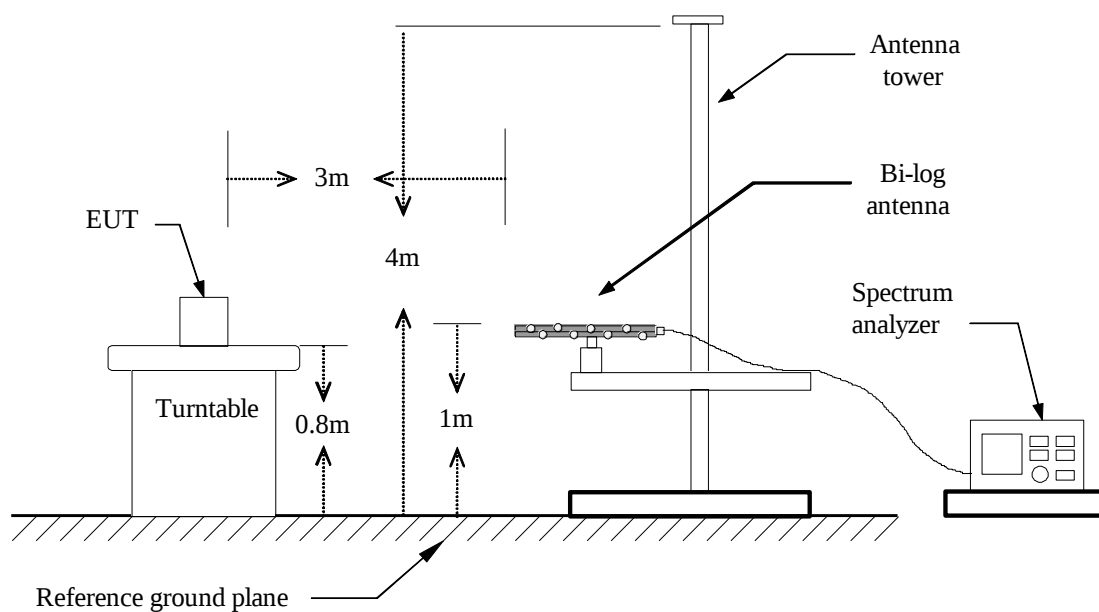
Margin=Actual FS- Limit

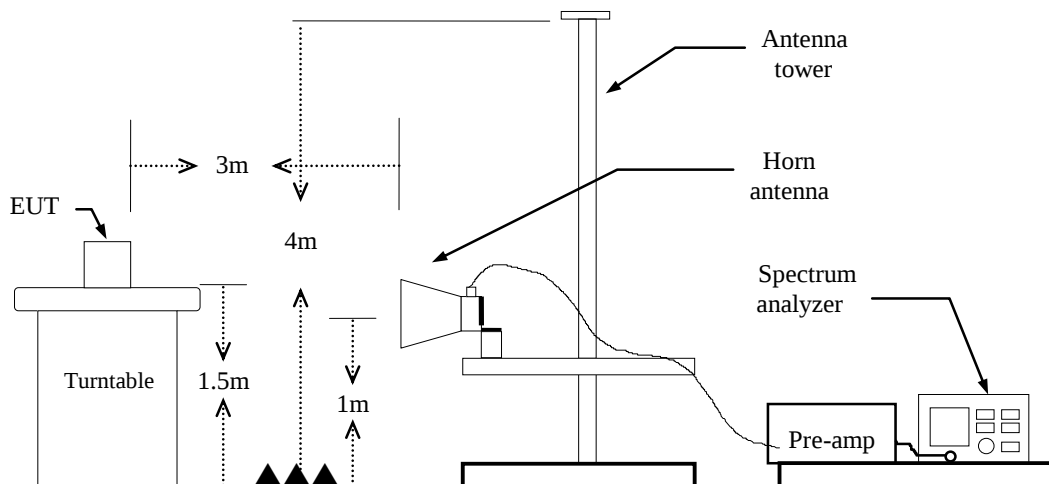
4.5.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz

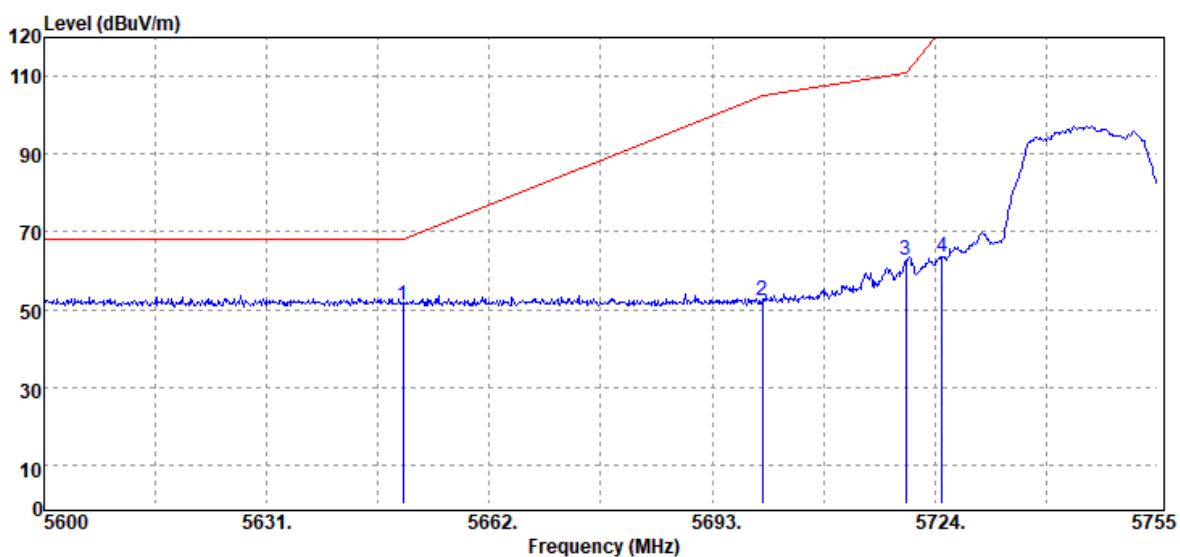


Above 1 GHz

4.5.4 Test Result

Band Edge Test Data**Test Data for UNII-3**

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	23.1(°C) / 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



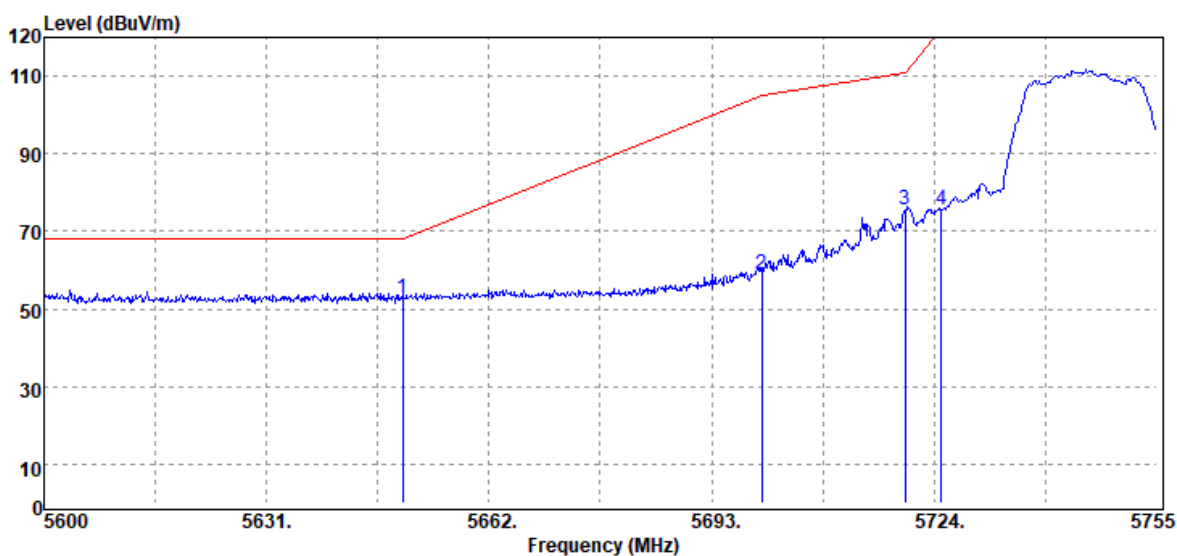
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	40.06	11.05	51.11	68.20	-17.09
5700.00	Peak	41.07	11.26	52.33	105.20	-52.87
5720.00	Peak	51.44	11.27	62.71	110.80	-48.09
5725.00	Peak	52.23	11.26	63.49	122.20	-58.71

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Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	23.1(°C) / 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



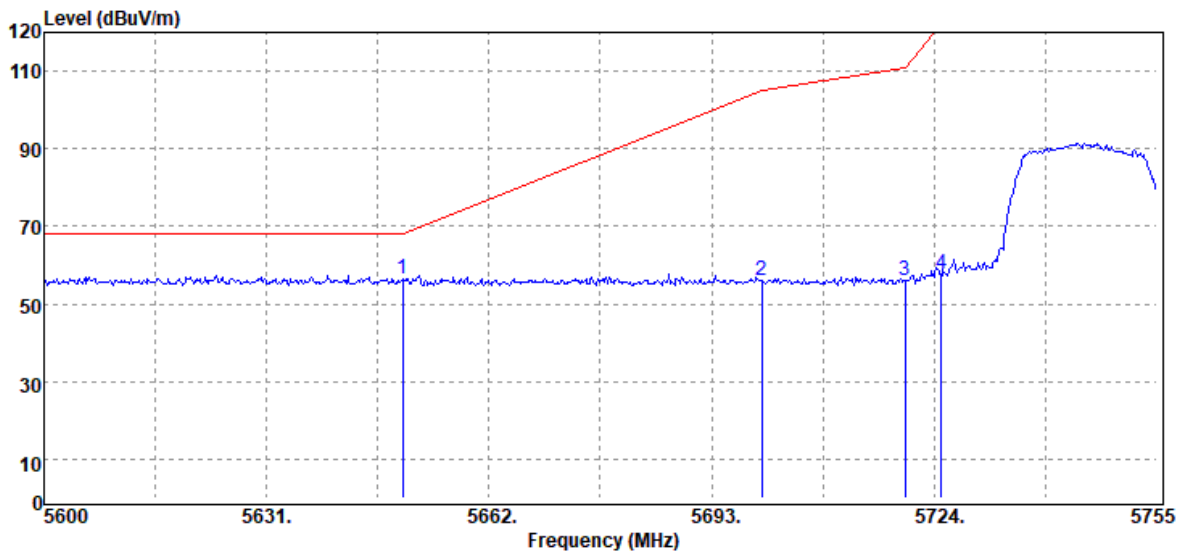
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	41.57	11.05	52.62	68.20	-15.58
5700.00	Peak	47.56	11.26	58.82	105.20	-46.38
5720.00	Peak	64.39	11.27	75.66	110.80	-35.14
5725.00	Peak	64.29	11.26	75.55	122.20	-46.65

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Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



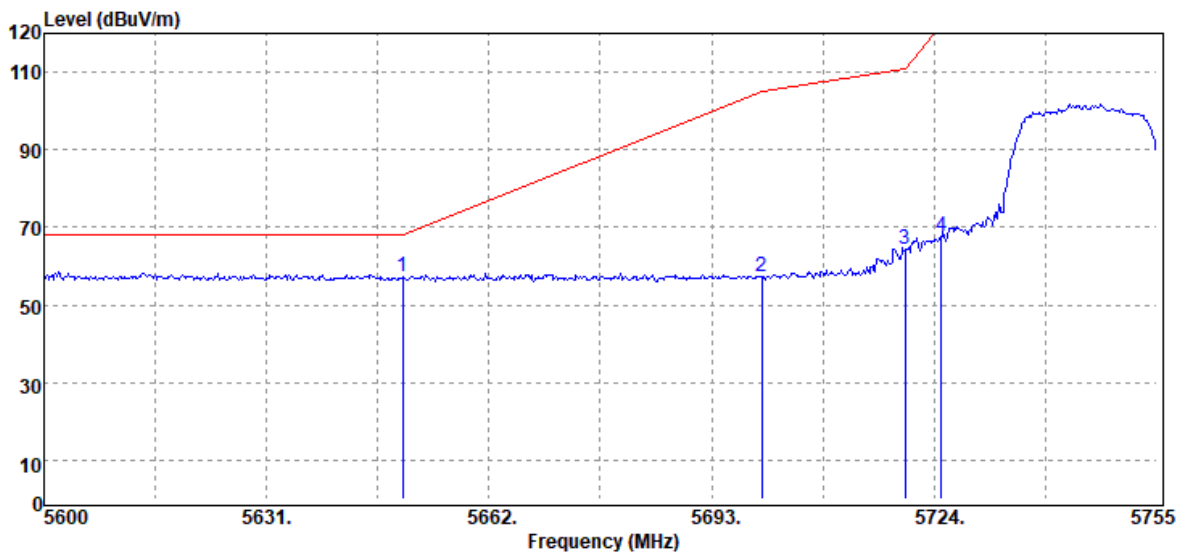
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	45.23	11.05	56.28	68.20	-11.92
5700.00	Peak	44.65	11.26	55.91	105.20	-49.29
5720.00	Peak	44.77	11.27	56.04	110.80	-54.76
5725.00	Peak	46.42	11.26	57.68	122.20	-64.52

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Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	23.1(°C) / 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



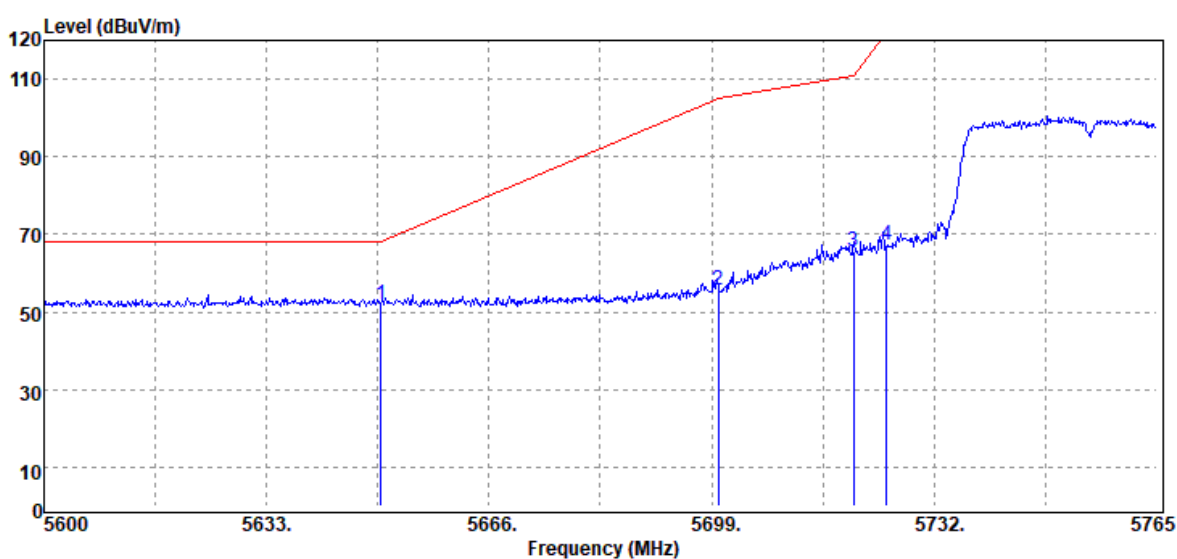
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	46.15	11.05	57.20	68.20	-11.00
5700.00	Peak	46.23	11.26	57.49	105.20	-47.71
5720.00	Peak	52.89	11.27	64.16	110.80	-46.64
5725.00	Peak	56.36	11.26	67.62	122.20	-54.58

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Test Mode	IEEE 802.11n HT40 MHz / 5755 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



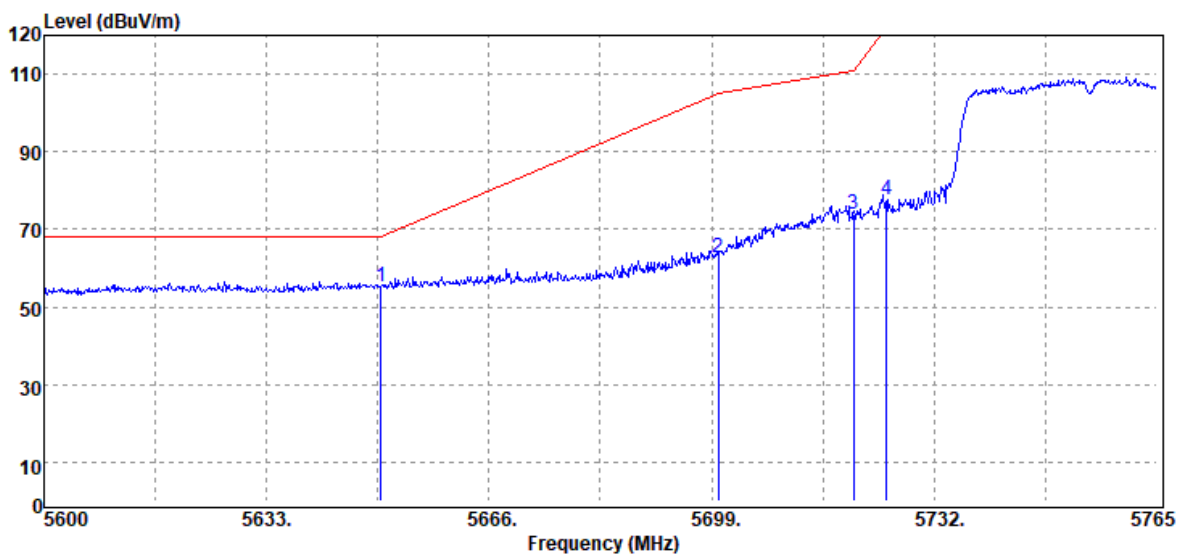
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	40.74	11.05	51.79	68.20	-16.41
5700.00	Peak	44.20	11.26	55.46	105.20	-49.74
5720.00	Peak	54.22	11.27	65.49	110.80	-45.31
5725.00	Peak	56.21	11.26	67.47	122.20	-54.73

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Test Mode	IEEE 802.11n HT40 MHz / 5755 MHz	Temperature	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



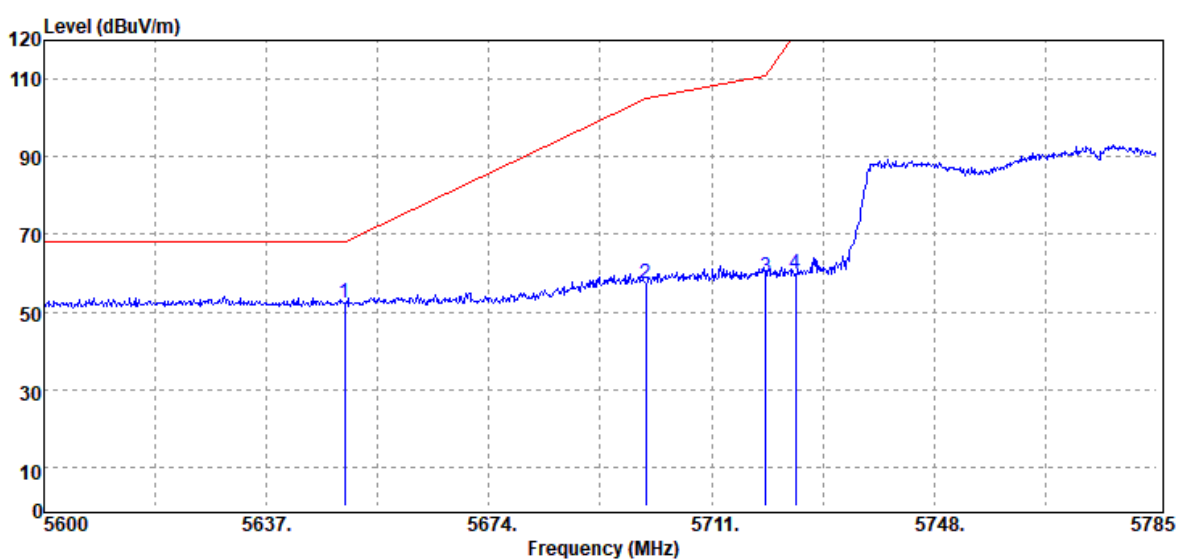
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	44.30	11.05	55.35	68.20	-12.85
5700.00	Peak	51.51	11.26	62.77	105.20	-42.43
5720.00	Peak	62.44	11.27	73.71	110.80	-37.09
5725.00	Peak	66.36	11.26	77.62	122.20	-44.58

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Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



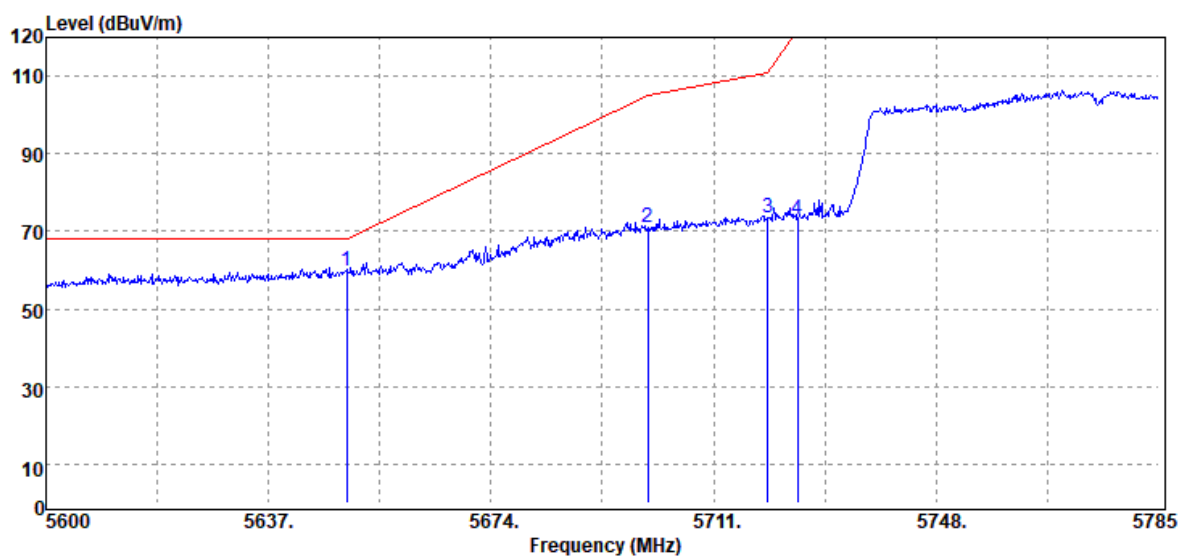
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	41.19	11.05	52.24	68.20	-15.96
5700.00	Peak	46.07	11.26	57.33	105.20	-47.87
5720.00	Peak	47.84	11.27	59.11	110.80	-51.69
5725.00	Peak	48.56	11.26	59.82	122.20	-62.38

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Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temperature	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



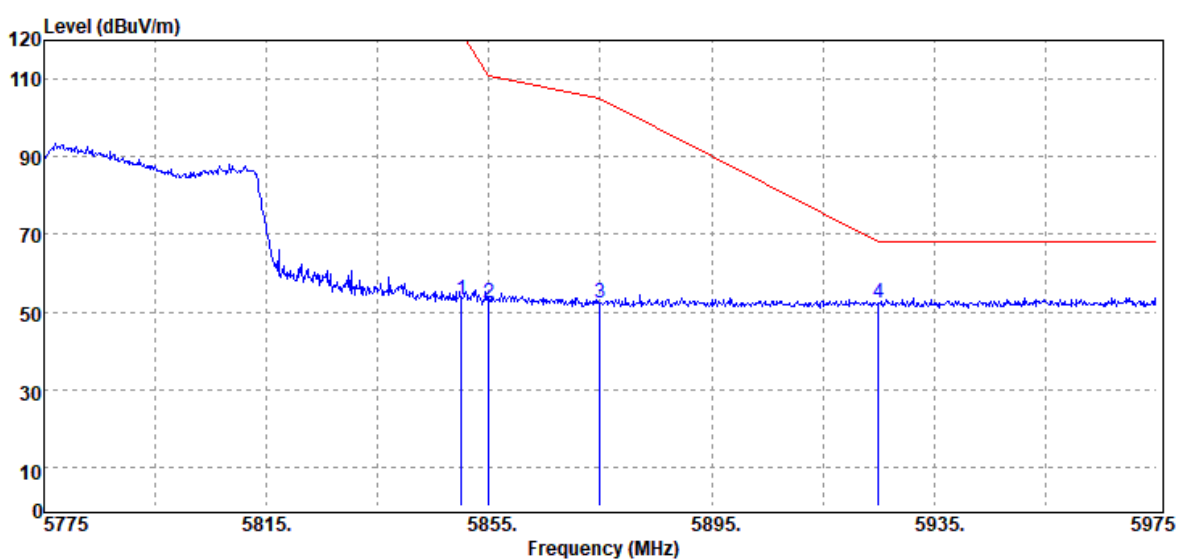
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	48.65	11.05	59.70	68.20	-8.50
5700.00	Peak	59.66	11.26	70.92	105.20	-34.28
5720.00	Peak	62.25	11.27	73.52	110.80	-37.28
5725.00	Peak	61.72	11.26	72.98	122.20	-49.22

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Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



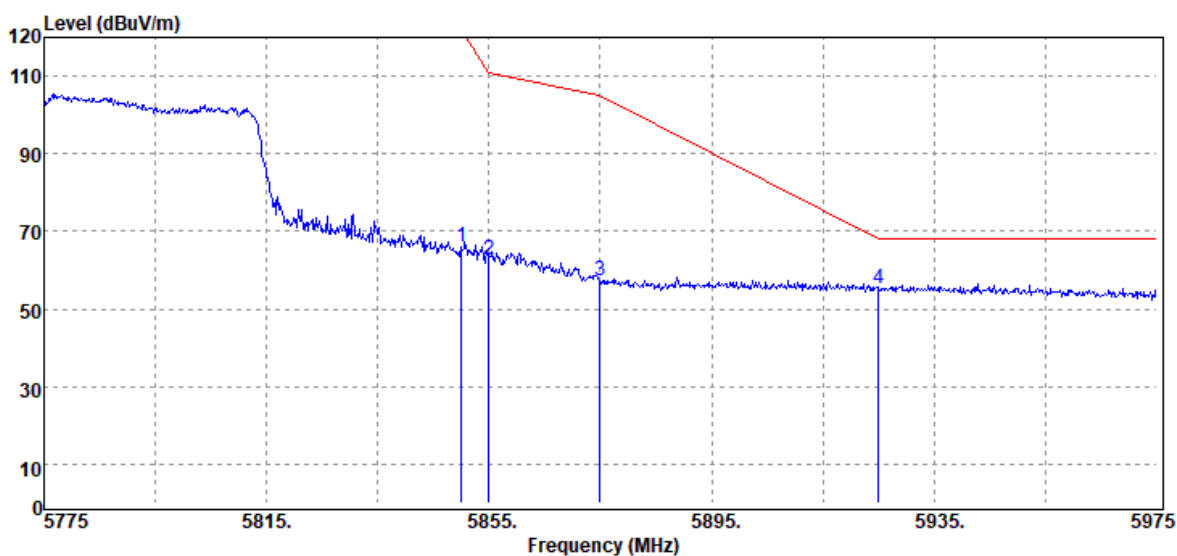
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	41.27	11.73	53.00	122.20	-69.20
5855.00	Peak	40.64	11.76	52.40	110.80	-58.40
5875.00	Peak	40.53	11.84	52.37	105.20	-52.83
5925.00	Peak	40.25	12.01	52.26	68.20	-15.94

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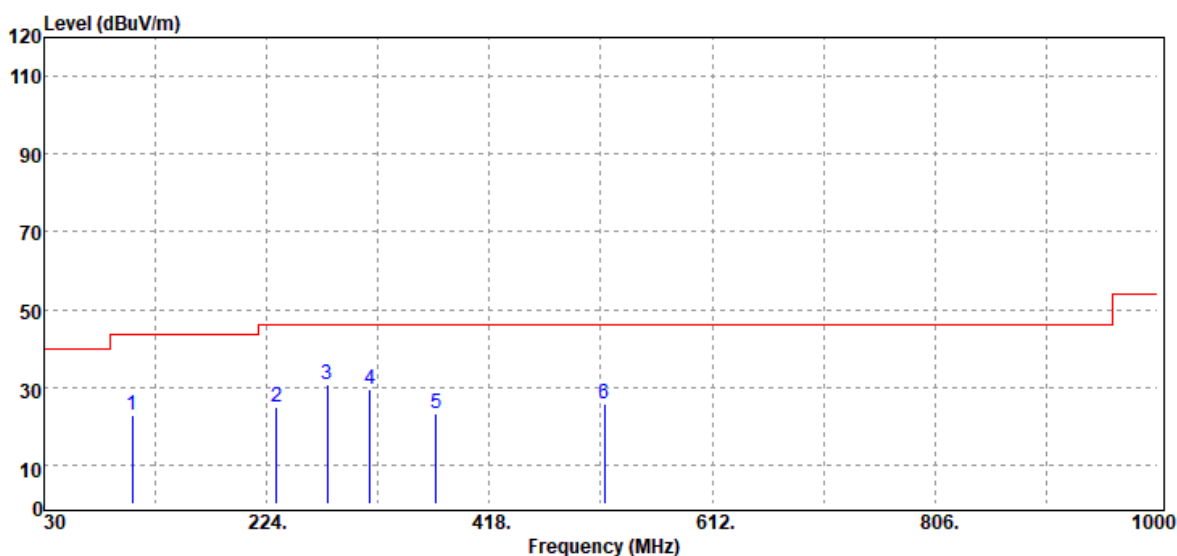
Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temperature	23.1(°C)/ 51%RH
Test Item	Band Edge	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	54.12	11.73	65.85	122.20	-56.35
5855.00	Peak	50.99	11.76	62.75	110.80	-48.05
5875.00	Peak	45.56	11.84	57.40	105.20	-47.80
5925.00	Peak	43.33	12.01	55.34	68.20	-12.86

Below 1G Test Data

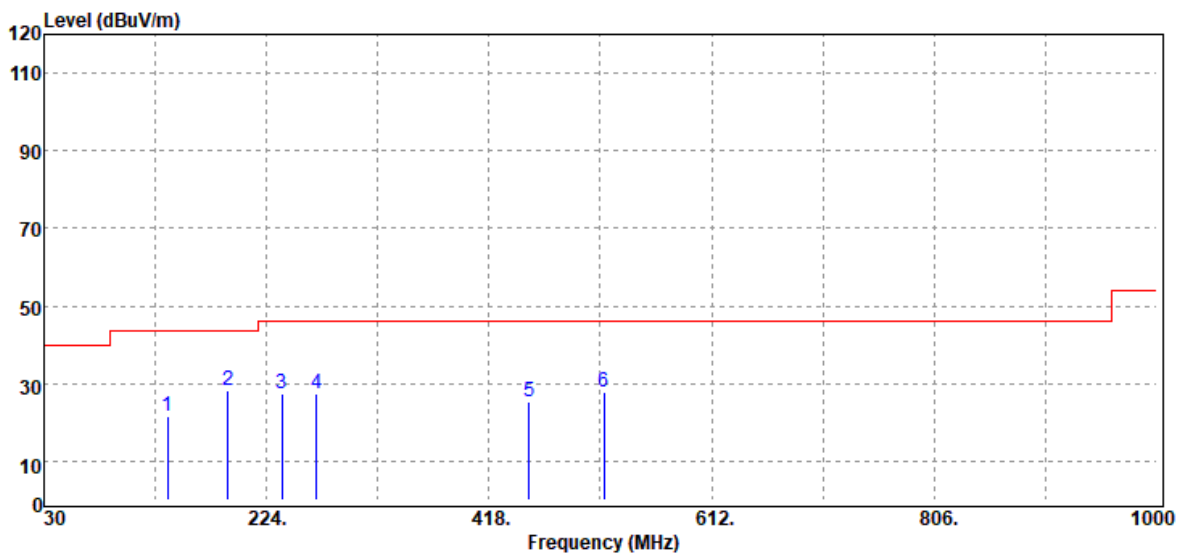
Test Mode	Mode 1	Temp/Hum	23.1(°C)/ 51%RH
Test Item	30MHz-1GHz	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
106.63	Peak	33.66	-11.01	22.65	43.50	-20.85
232.73	Peak	36.24	-11.14	25.10	46.00	-20.90
276.38	Peak	39.60	-8.86	30.74	46.00	-15.26
314.21	Peak	37.91	-8.28	29.63	46.00	-16.37
371.44	Peak	30.20	-6.90	23.30	46.00	-22.70
517.91	Peak	29.09	-3.21	25.88	46.00	-20.12

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	Mode 1	Temp/Hum	23.1(°C)/ 51%RH
Test Item	30MHz-1GHz	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

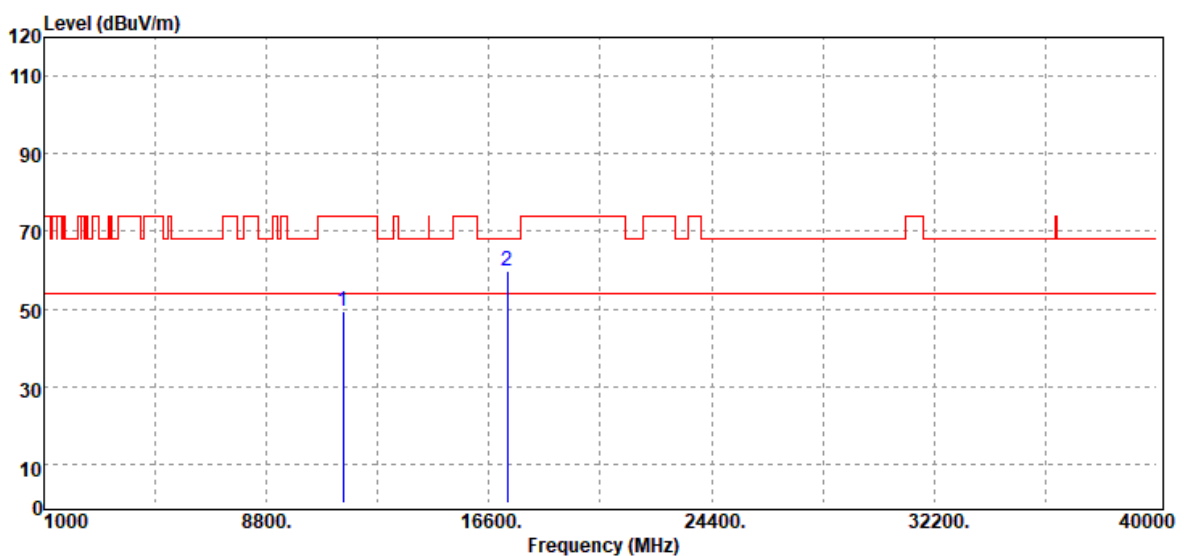


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
137.67	Peak	31.22	-9.78	21.44	43.50	-22.06
190.05	Peak	39.27	-11.20	28.07	43.50	-15.43
237.58	Peak	38.32	-10.81	27.51	46.00	-18.49
267.65	Peak	36.66	-9.11	27.55	46.00	-18.45
452.92	Peak	29.89	-4.36	25.53	46.00	-20.47
517.91	Peak	31.02	-3.21	27.81	46.00	-18.19

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Above 1G**Test Data for UNII-3**

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

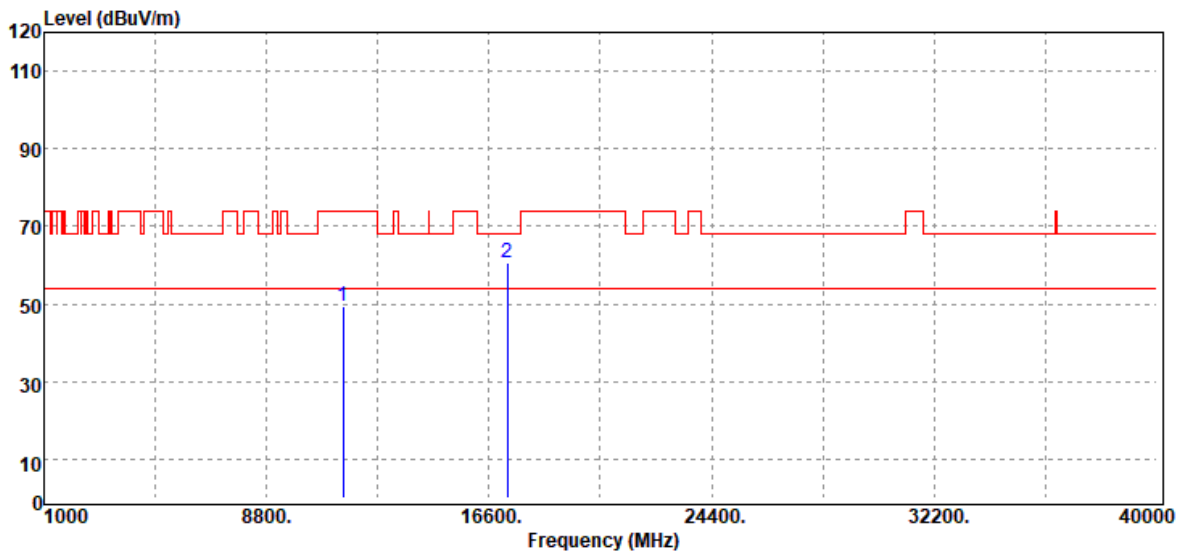


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	30.76	18.82	49.58	74.00	-24.42
17235.00	Peak	30.39	29.40	59.79	68.20	-8.41
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	23.1(°C) / 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

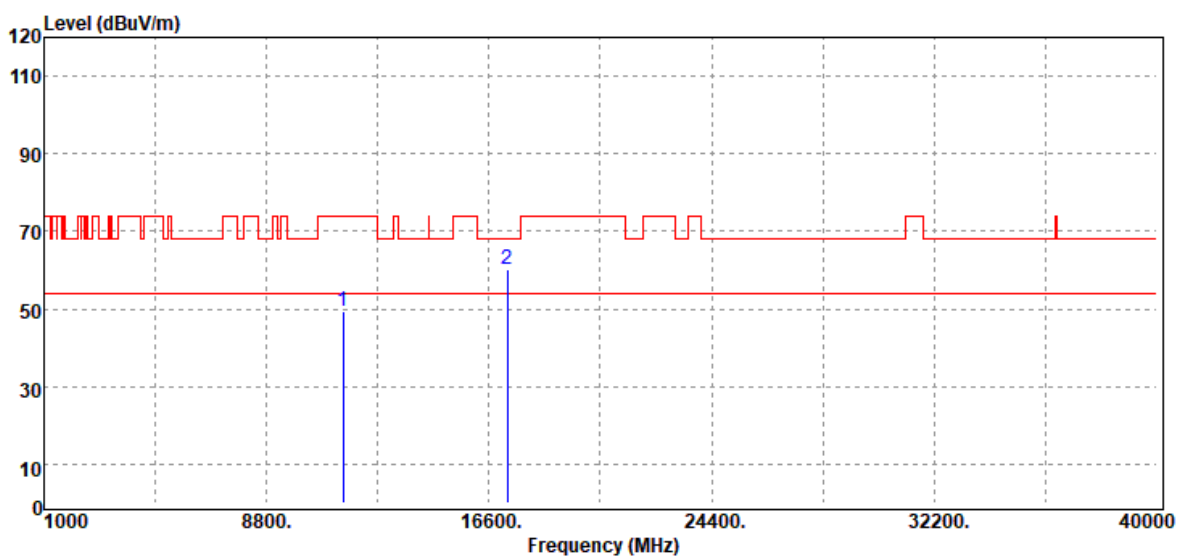


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	30.76	18.82	49.58	74.00	-24.42
17235.00	Peak	31.25	29.40	60.65	68.20	-7.55
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

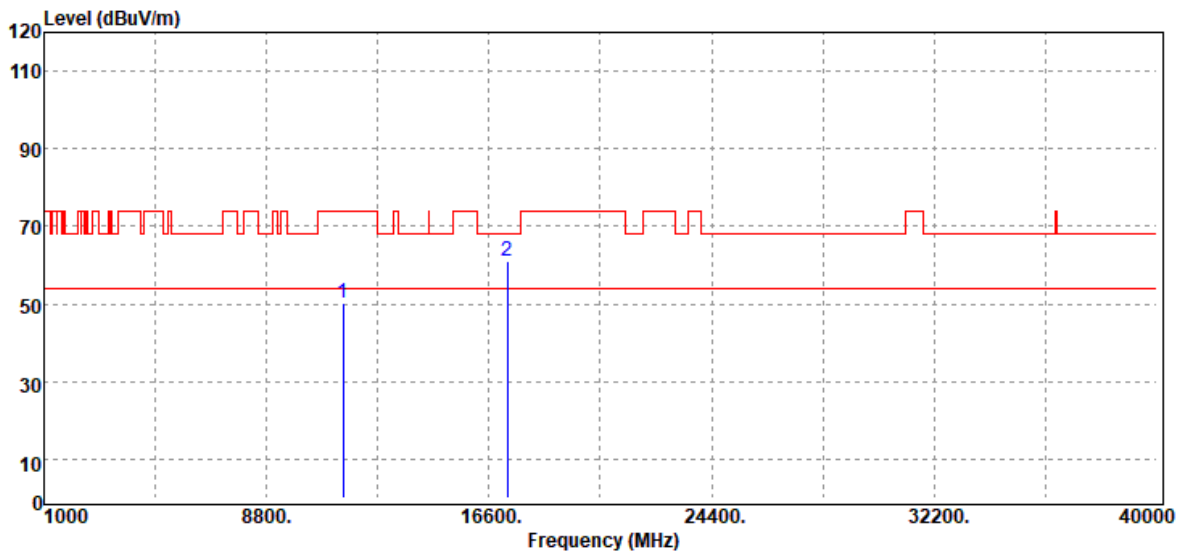


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Peak	29.79	19.69	49.48	74.00	-24.52
17235.00	Peak	30.00	30.12	60.12	68.20	-8.08
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	30.39	19.69	50.08	74.00	-23.92
17235.00	Peak	30.98	30.12	61.10	68.20	-7.10
N/A						

Remark:

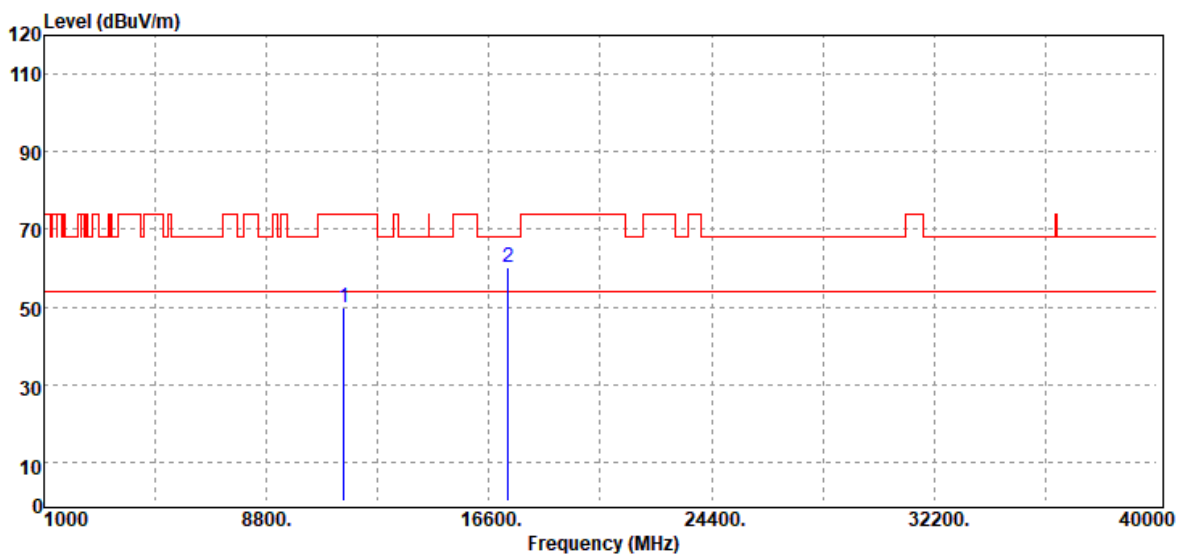
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

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Test Mode	IEEE 802.11n HT40 MHz / 5755MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

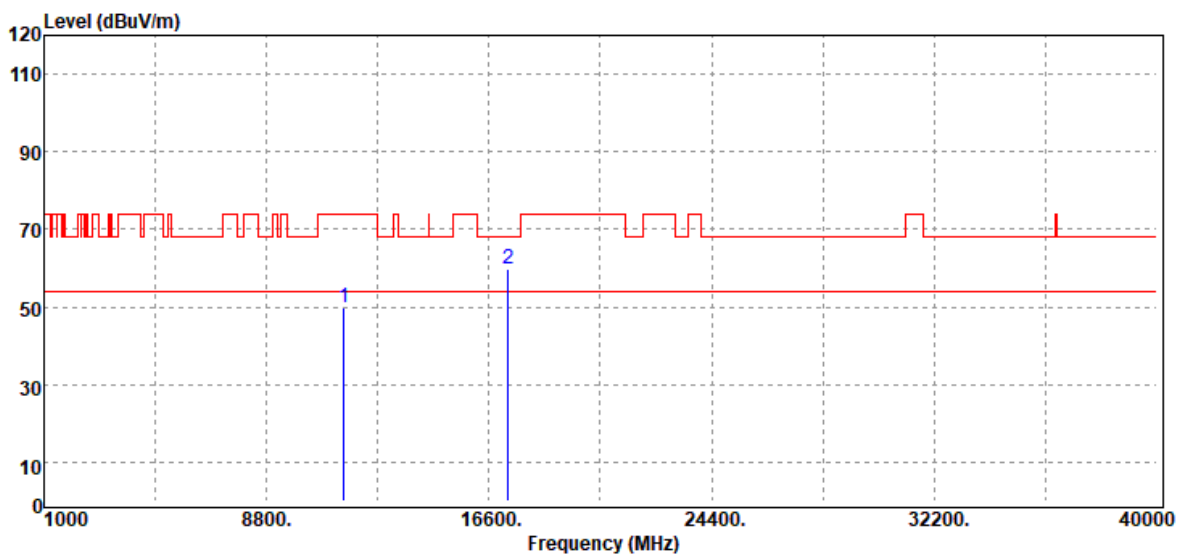


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Peak	30.78	18.85	49.63	74.00	-24.37
17265.00	Peak	31.12	29.16	60.28	68.20	-7.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 MHz / 5755 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Peak	30.85	18.85	49.70	74.00	-24.30
17265.00	Peak	30.67	29.16	59.83	68.20	-8.37
N/A						

Remark:

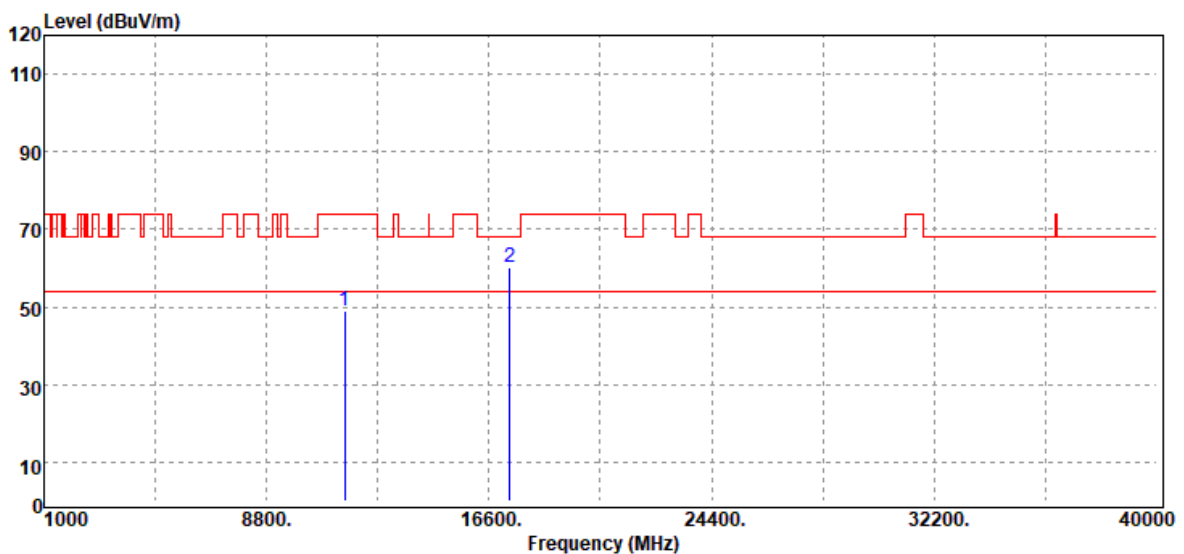
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

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Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

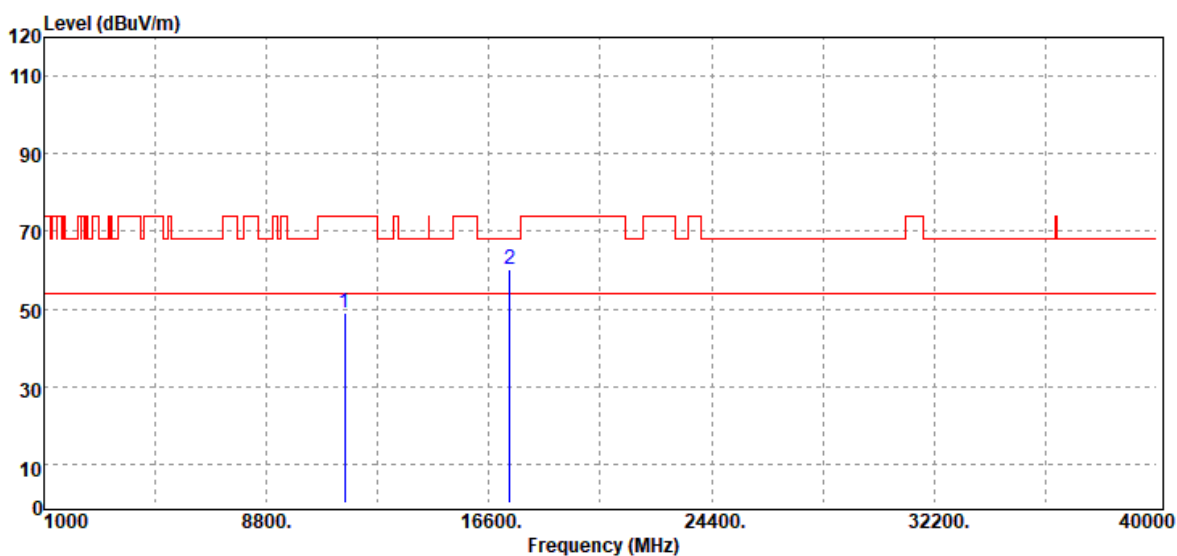


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Peak	30.23	18.89	49.12	74.00	-24.88
17325.00	Peak	31.11	28.92	60.03	68.20	-8.17
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 MHz / 5775 MHz	Temp/Hum	23.1(°C)/ 51%RH
Test Item	Harmonic	Test Date	September 16, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Peak	30.29	18.89	49.18	74.00	-24.82
17325.00	Peak	31.33	28.92	60.25	68.20	-7.95
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

- End of Test Report -