



FCC Test Report

Report No: FCS202507062W03

Issued for

Applicant:	Wavetec FZCO
Address:	Light Industrial Unit # 9, Dubai Silicon Oasis P.O. Box 341133, Dubai, United Arab Emirates
Product Name:	SIM vend
Brand Name:	Azimut/Wavetec
Model Name:	Edge Kiosk
Series Model:	Edge Kiosk-v1, Edge Kiosk-v2, Edge Kiosk-v3, Edge Kiosk- v4, Edge Kiosk-v5
FCC ID:	2AGQF-EDGE-KIOSK
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.fcs-lab.com	

**TEST RESULT CERTIFICATION**

Applicant's Name: Wavetec FZCO
Address.....: Light Industrial Unit # 9, Dubai Silicon Oasis P.O. Box 341133,
Dubai, United Arab Emirates
Manufacture's Name: Wavetec FZCO
Address.....: Light Industrial Unit # 9, Dubai Silicon Oasis P.O. Box 341133,
Dubai, United Arab Emirates

Product Description

Product Name: SIM vend
Brand Name: Azimut/Wavetec
Model Name.....: Edge Kiosk
Series Model: Edge Kiosk-v1, Edge Kiosk-v2, Edge Kiosk-v3, Edge Kiosk-v4,
Edge Kiosk-v5
Test Standards: CFR 47 FCC Part15E section 15.407
ANSI C63.10-2013
Test Procedure.....: KDB 789033 D02 General UNII Test procedures New Rules 02

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

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Date of Test :

Date (s) of performance of tests : July. 10, 2025 ~ Aug. 05, 2025

Date of Issue..... : Aug 22, 2025

Test Result : Pass

Tested by

:

Mike Tan

(Mike Tan)

Reviewed by

:

Nels wang

(Nels Wang)

Approved by

:

Jack Wang

(Jack Wang)



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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	Aug 22, 2025	FCS202507062W03	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(9)	N/A
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407(a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407(a)	PASS
99%Occupied bandwidth	\	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407(e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407(a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407(g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407(b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407(b)	PASS
Remark:		

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01	

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.988 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	Conducted Emission (150KHz-30MHz)	± 4.74 dB
5	All emissions, radiated (<1G) 9KHz-30MHz	± 5.2 dB
6	All emissions, radiated (<1G) 30MHz-1000MHz	± 5.2 dB
7	All emissions, radiated 1GHz -18GHz	± 4.66 dB
8	All emissions, radiated 18GHz -40GHz	± 4.31 dB
9	PSD	± 1.24 dB
10	Occupied bandwidth	± 0.3 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	SIM vend
Trade Name	Azimut/Wavetec
Model Name	Edge Kiosk
Series Model	Edge Kiosk-v1, Edge Kiosk-v2, Edge Kiosk-v3, Edge Kiosk-v4, Edge Kiosk-v5
Model Difference	PCB board, structure and internal of these model(s) are the same, only differing in Model name and color. So no additional models were tested
Channel List	Please refer to the Note 2.
Operation frequency	IEEE 802.11a/n/ac(HT20)n/ac(HT40)ac(HT80) U-NII-1 5150MHz ~5250MHZ
Number of channel	5150MHz ~5250MHZ (7CH)
Modulation:	OFDM
Power supply	100~240VAC 50/60 Hz
Battery	N/A
Hardware version number	V1.0
Software version number	V1.0
Sample type	mobile device

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		

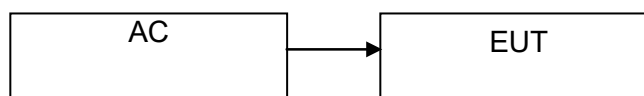
Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	WGT	PIFA Antenna	N/A	3	Antenna

2.2 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

Block diagram of EUT configuration for test



Test software: sscom5.13.1

The test software was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table

For 802.11a/n/ac(HT20)

U-NII-1

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180		
48	5240		

For 802.11n/ac(HT40)

U-NII-1

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190		
46	5230		

For 802.11ac(VHT80)

U-NII-1

channel	Frequency(MHz)	channel	Frequency(MHz)
42	5210		

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories



Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Notebook	Lenovo	ThinkPad E495	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST Radiation Test equipment

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2024.08.28	2025.08.27
Signal Analyzer	R&S	FSV40-N	FCS-E012	2024.08.28	2025.08.27
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2024.08.28	2025.08.27
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2024.08.28	2025.08.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2024.08.28	2025.08.27
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2024.08.28	2025.08.27
Pre-Amplifier(0.1M-3GHz)	EMCI	EM330N	FCS-E004	2024.08.28	2025.08.27
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2024.08.28	2025.08.27
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2024.08.28	2025.08.27
Temperature & Humidity	HTC-1	victor	FCS-E005	2024.08.28	2025.08.27
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2024.08.28	2025.08.27
LISN	R&S	ENV216	FCS-E007	2024.08.28	2025.08.27
LISN	ETS	3810/2NM	FCS-E009	2024.08.28	2025.08.27
Temperature & Humidity	HTC-1	victor	FCS-E008	2024.08.28	2025.08.27
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2024.08.28	2025.08.27
MXA SIGNAL Analyzer	Agilent	N9020A	FCS-E025	2024.08.28	2025.08.27
Spectrum Analyzer	Agilent	E4447A	MY50180039	2024.08.28	2025.08.27
Spectrum Analyzer	R&S	FSV-40	101499	2024.08.28	2025.08.27
Power Sensor	Agilent	UX2021XA	FCS-E021	2024.08.28	2025.08.27
Attenuator	Valley wave technology	SMA-CA110E 10 dB	FCS-E022	2024. 08.28	2025. 08.27
Power Meter	Keysight	N1912A	FCS-E023	2024. 08.28	2025. 08.27
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

3. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

3.1 Limit

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725 For IC:5470-5600 5650-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

3.2 Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6dB Bandwidth: VBW=300kHz For 26dB Bandwidth: >3RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, 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 26dB and 6dB relative to the maximum level measured in the fundamental emission.



3.3 Test setup

3.4 Test results

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	27.82	25.18	29.58	16.769	16.682	16.712
	802.11n(HT20)	28.57	27.59	31.44	17.891	17.825	17.829
	802.11n(HT40)	49.72	/	49.41	36.410	/	36.381
	802.11ac(VHT20)	30.84	27.12	30.99	17.822	17.864	17.894
	802.11ac(VHT40)	47.09	/	47.26	36.394	/	36.474
	802.11ac(VHT80)	81.77	/	/	75.854	/	/

3.4 Original Test Data

U-NII-1 11a Low CH 5180MHz



U-NII-1 11a Middle CH 5200MHz



U-NII-1 11a High CH 5240MHZ



U-NII-1 11n(HT20) Low CH 5180MHZ



U-NII-1 11n(HT20) Middle CH 5200MHZ



U-NII-1 11n(HT20)High CH 5240MHZ



U-NII-1 11n(HT40) Low CH 5190MHz



U-NII-1 11n(HT40) High CH 5230MHz



U-NII-1 ac(VHT20) Low CH 5180MHZ



U-NII-1 ac(VHT20) Middle CH 5200MHZ



U-NII-1 ac(VHT20)High CH 5240MHZ



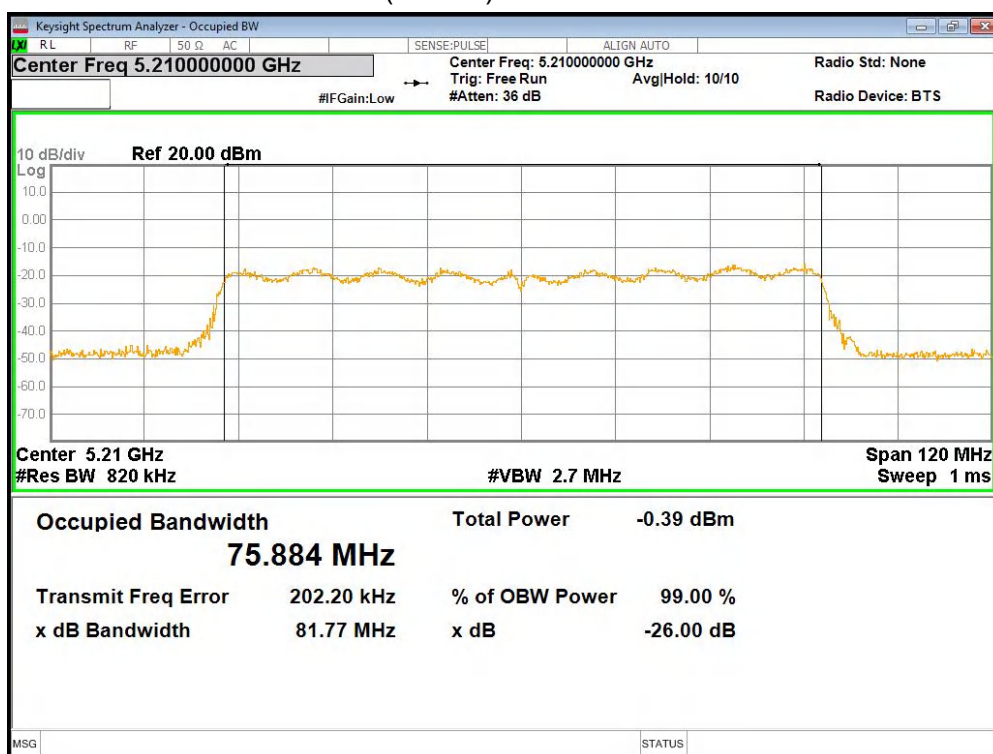
U-NII-1 ac(VHT40) Low CH 5190MHZ



U-NII-1 ac(VHT40) High CH 5230MHZ



U-NII-1 ac(VHT80) Low CH 5210MHZ



4 CONDUCTED OUTPUT POWER

4.1 limit

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices: 250mW (24dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW(23dBm) or $10 + 10 \log_{10} B$	
	250mW (24dBm) or $11 + 10 \log_{10} B$	5250-5350
	250mW (24dBm) or $11 + 10 \log_{10} B$	For FCC:5470-5725 For IC:5470-5600 5650-5725
	1 Watt (30dBm)	5725-5850
Note: For ISSED: B=99% bandwidth.		

4.2 test procedure

- Connect each EUT's antenna output to power meter by RF cable and attenuator
- Get each antenna port's output power of EUT.

4.3 TEST SETUP



4.4 test results

Band	Operation mode	Coneucted Output Power(dBm)		
		Low	Middle	High
U-NII-1	802.11a	5.63	5.22	4.59
	802.11 n(HT20)	5.96	5.52	6.92
	802.11 n(HT40)	6.54	/	6.00
	802.11ac(VHT20)	5.80	5.49	6.16
	802.11ac(VHT40)	6.49	/	5.77
	802.11ac(VHT80)	6.12	/	/

5. POWER SPECTRAL DENSITY

5.1 LIMIT

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250
	For RSS eirp:10dBm/MHz	
	11dBm/MHz	5250-5350
	11dBm/MHz	For FCC:5470-5725 For IC:5470-5600 5650-5725
	30dBm/500kHz	5725-5850

5.2 TEST PROCEDURE

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5725MHz-5850MHz

Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
2. The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is - 3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

5.3 TEST SETUP



5.4 TEST RESULTS

Band	Operation mode	Power Spectral Density(dBm/MHz)		
		Low	Middle	High
U-NII-1	802.11a	-13.12	-8.84	-9.71
	802.11 n(HT20)	-9.05	-8.75	-9.94
	802.11 n(HT40)	-12.85	/	-12.63
	802.11ac(VHT20)	-8.84	-9.55	-8.78
	802.11ac(VHT40)	-12.00	/	-13.51
	802.11ac(VHT80)	-10.61	/	/

5.5 original test data

U-NII-1 802.11a Low CH



U-NII-1 802.11a Middle CH



U-NII-1 802.11a High CH



U-NII-1 802.11n(HT20) Low CH



U-NII-1 802.11n(HT20) Middle CH



U-NII-1 802.11n(HT20) High CH



U-NII-1 802.11n(HT40) Low CH



U-NII-1 802.11n(HT40) High CH



U-NII-1 802.11ac(VHT20) Low CH



U-NII-1 802.11ac(VHT20) Middle CH



U-NII-1 802.11ac(VHT20) High CH



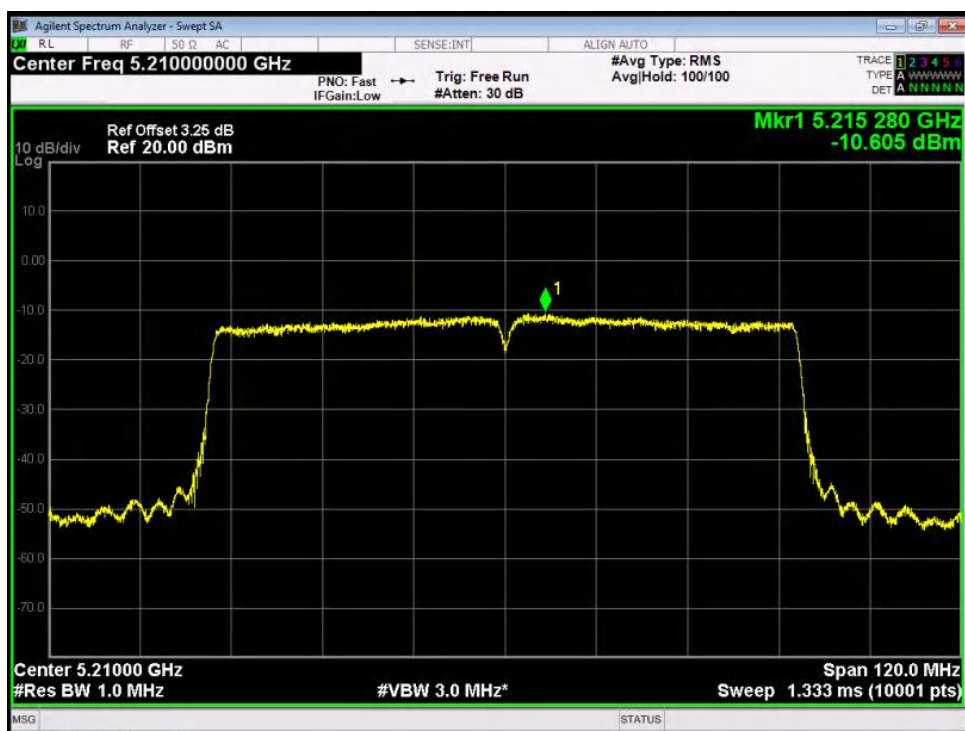
U-NII-1 802.11ac(VHT40) Low CH



U-NII-1 802.11ac(VHT40) High CH



U-NII-1 802.11ac(VHT80) Low CH



6. FREQUENCY STABILITY MEASUREMENT

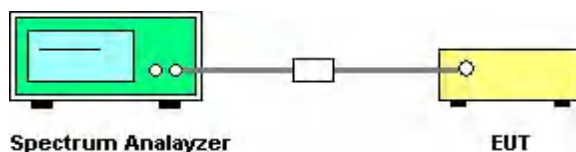
6.1 LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual

6.2 TEST PROCEDURE

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

6.3 TEST SETUP



6.4 TEST RESULTS

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (DC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	120V	/		within the band of operation
45		1807	2.1599	
30		1800	2.1516	
20		1806	2.1587	
10		1800	2.1516	
0		1803	2.1552	
-10		1800	2.1516	
-15		1809	2.1623	
-30		/	/	
20	102V	1810	2.1635	
20	138V	1798	2.1492	

7. Conducted spurious emission and Band edge

7.1 LIMIT

Undesirable emission limits. 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 Band (MHz)	Limit
5150-5250	Outside of the 5.15-5.35 GHz band:EIRP-27 dBm/MHz
5250-5350	Outside of the 5.15-5.35 GHz band:EIRP-27 dBm/MHz
5350-5460	emissions shall be limited to 74 dBuV/m@3m, which is -21.2 dBm
5470-5725	Outside of the 5.47-5.725 GHz band:EIRP-27 dBm/MHz
5725-5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge,and from 25 MHz above or below the band edge increasing lineany to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge,and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.2 TEST PROCEDURE

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz

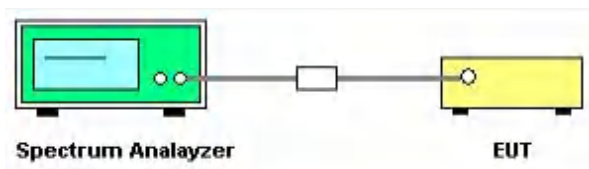
VBW = 3 MHz

Sweep = auto

Detector function = peak Trace = max hold

Allow the trace to stabilize

7.3 TEST SETUP

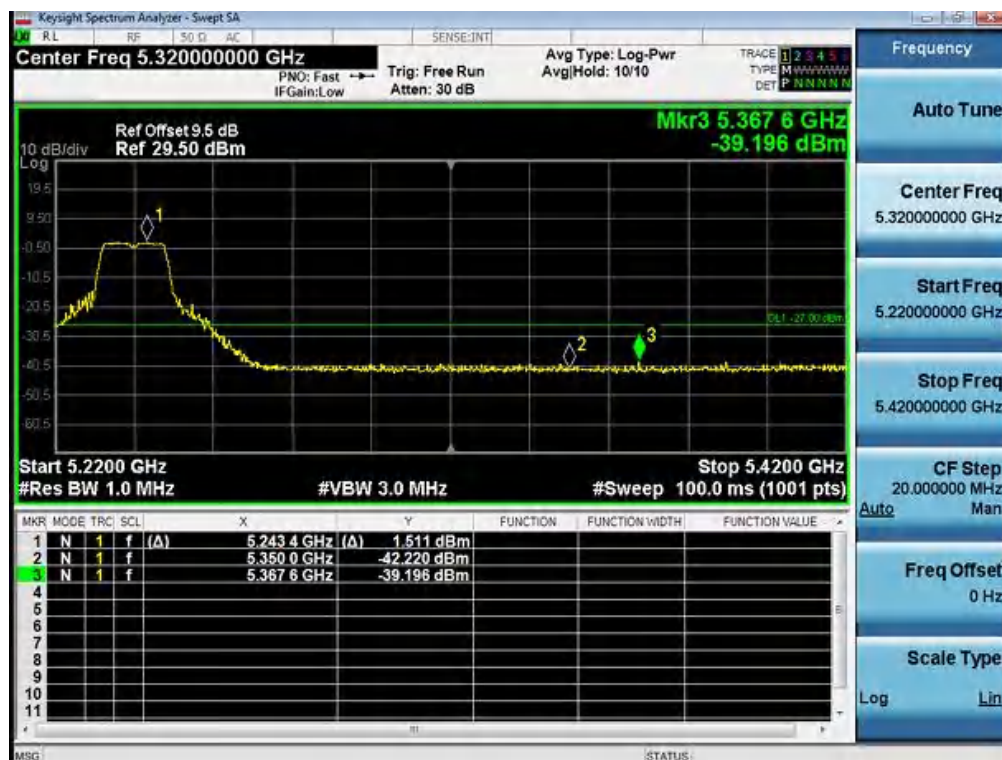


7.4 TEST RESULTS

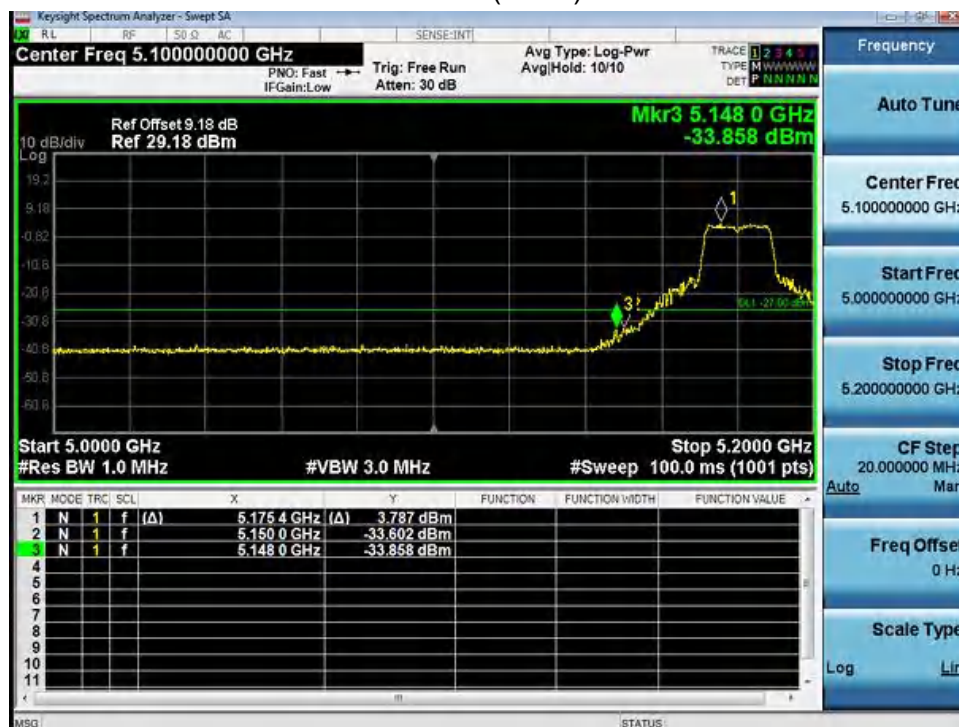
U-NII-1 802.11a left side



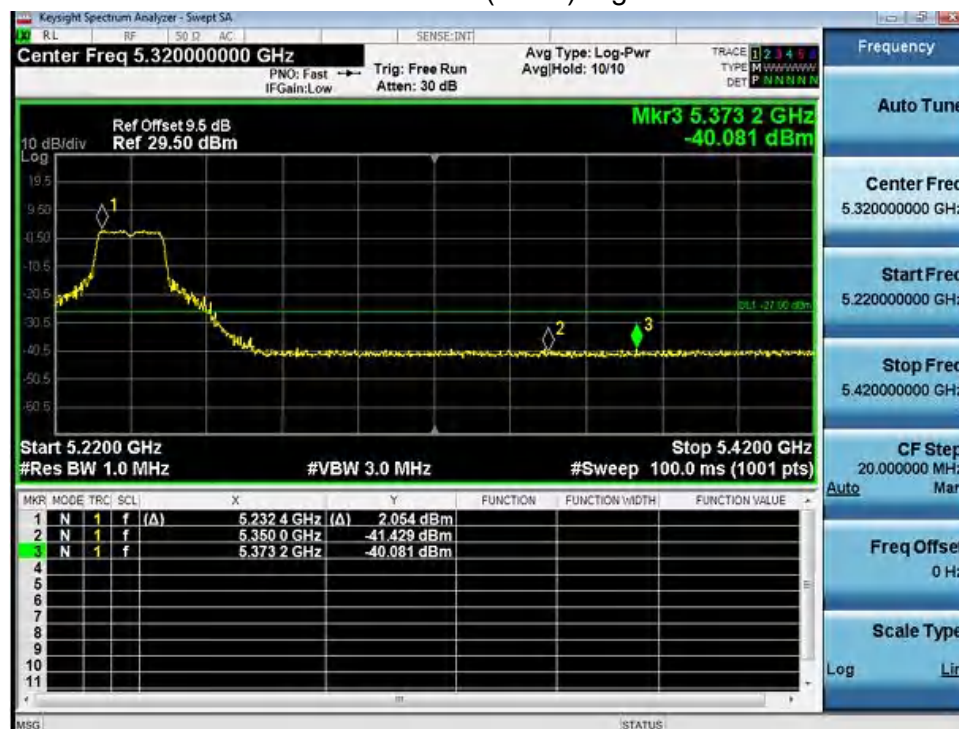
U-NII-1 802.11a Right side



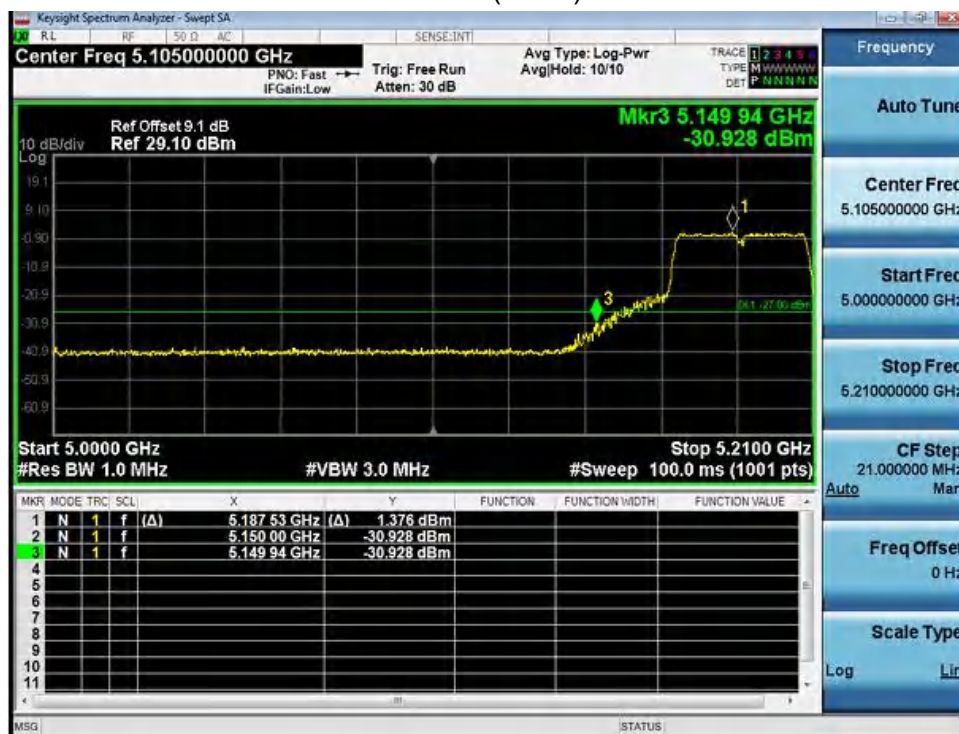
U-NII-1 802.11n(HT20) left side



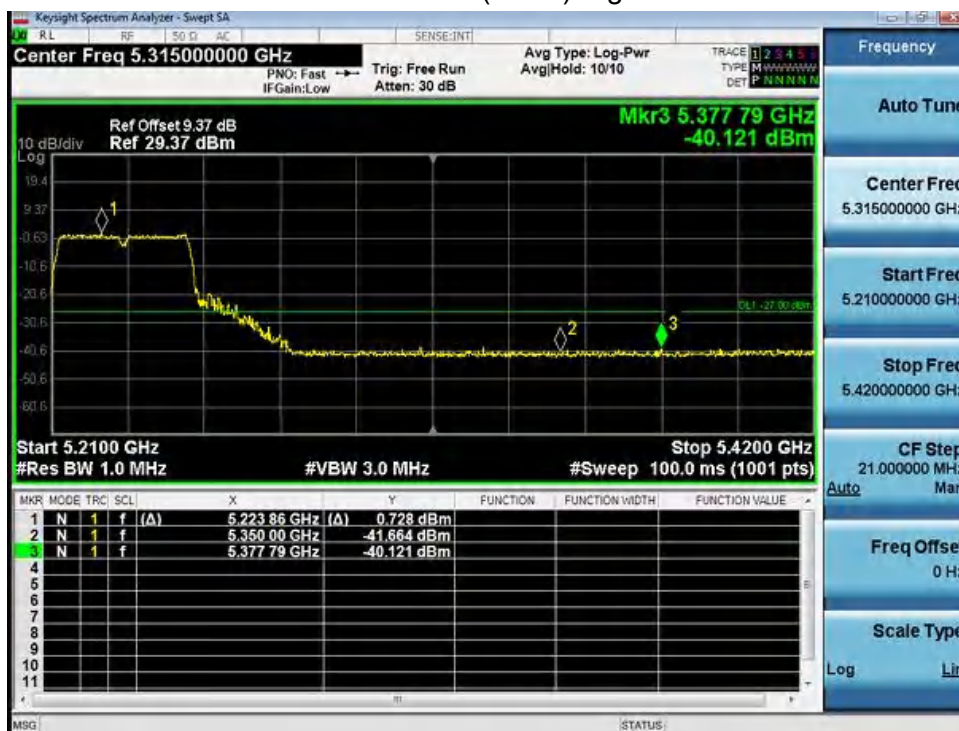
U-NII-1 802.11n(HT20) Right side



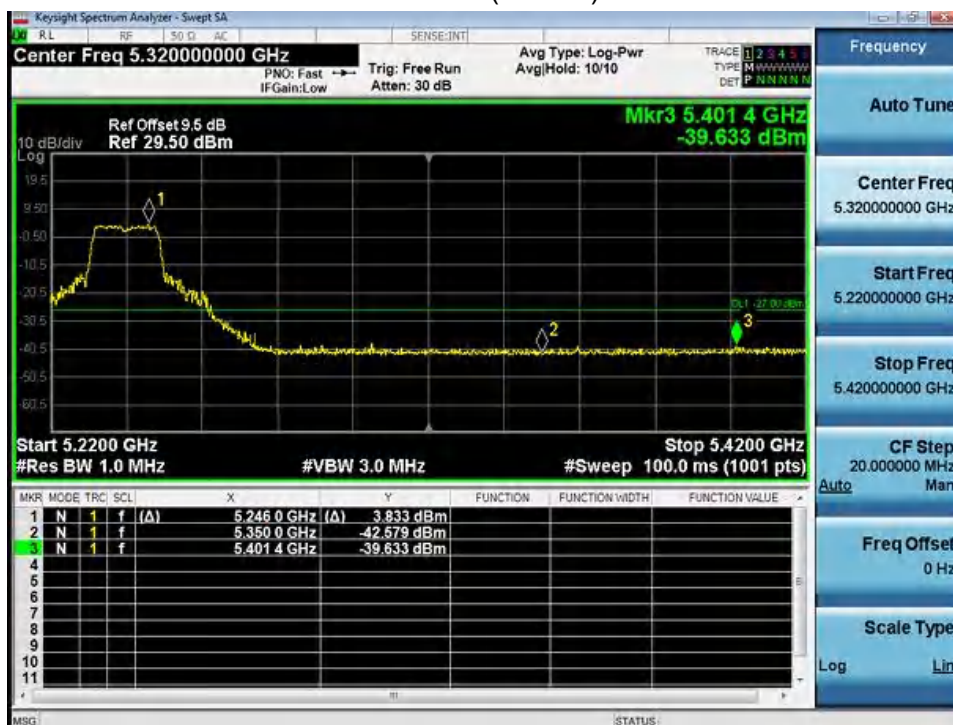
U-NII-1 802.11n(HT40) left side



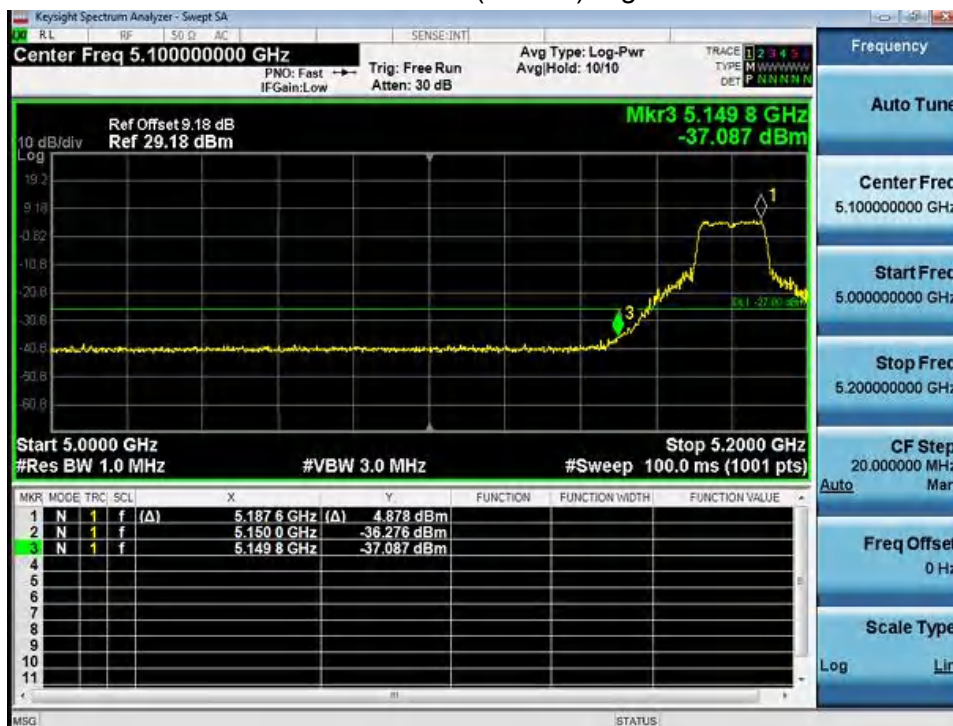
U-NII-1 802.11n(HT40) Right side



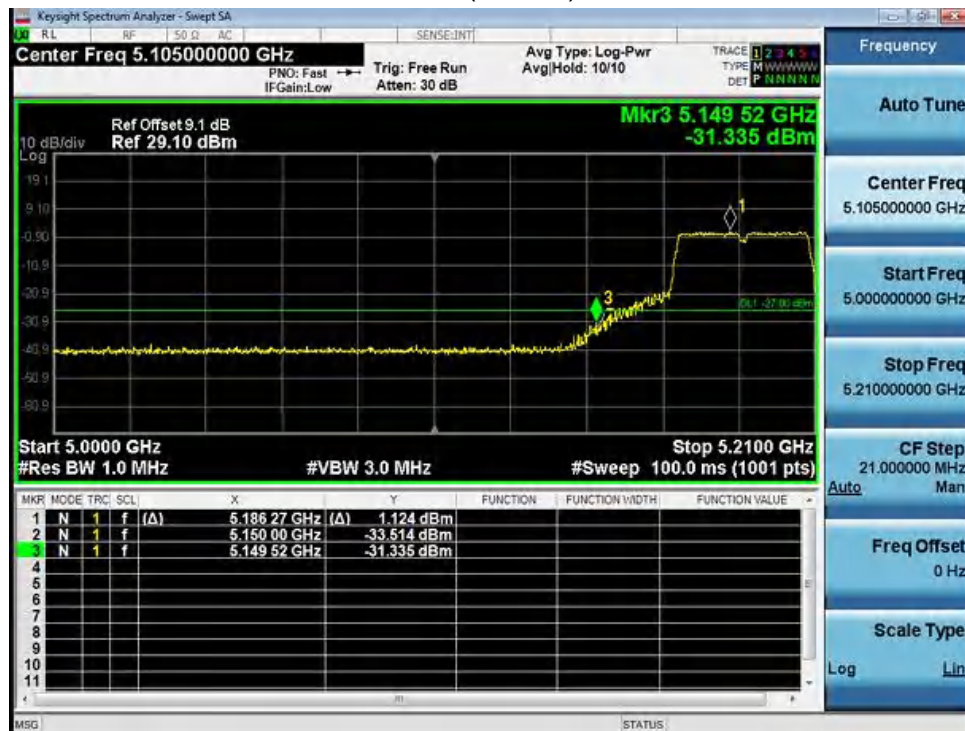
U-NII-1 802.11ac(VHT20) left side



U-NII-1 802.11ac(VHT20) Right side



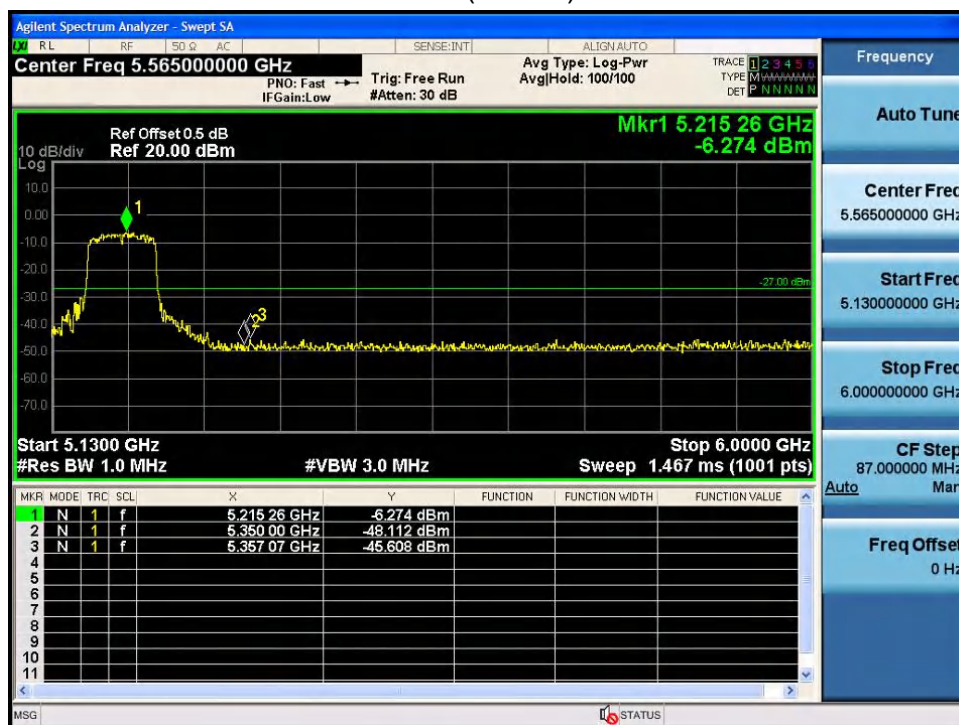
U-NII-1 802.11ac(VHT40) left side



U-NII-1 802.11ac(VHT40) Right side



U-NII-1 802.11ac(VHT80) left side

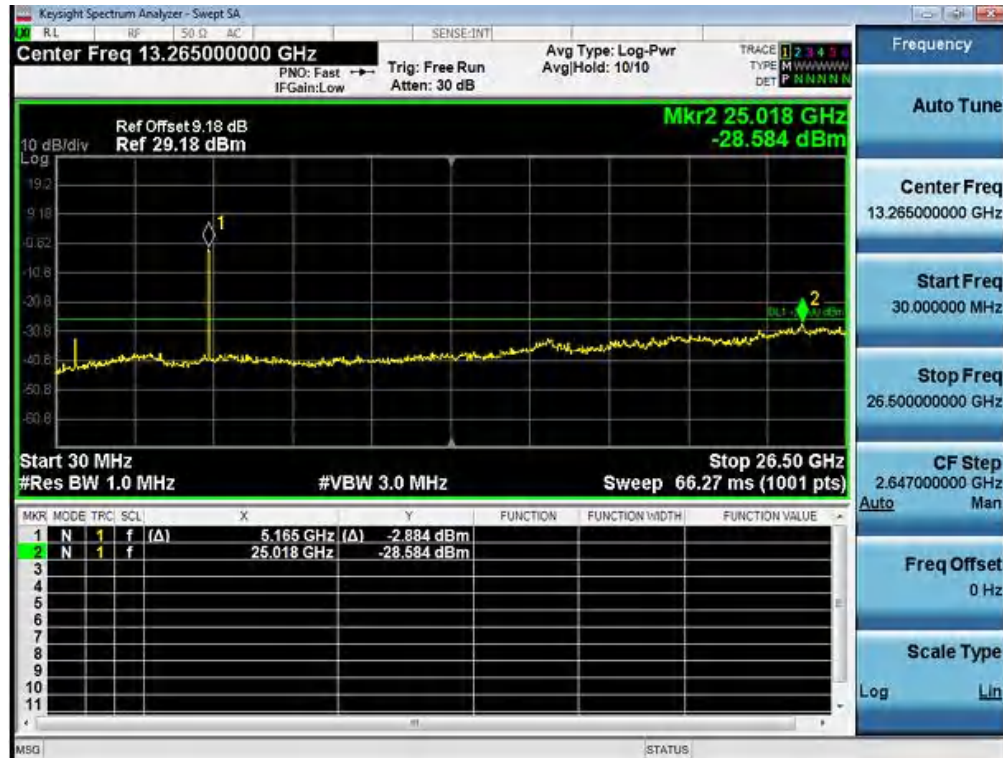


U-NII-1 802.11ac(VHT80) Right side

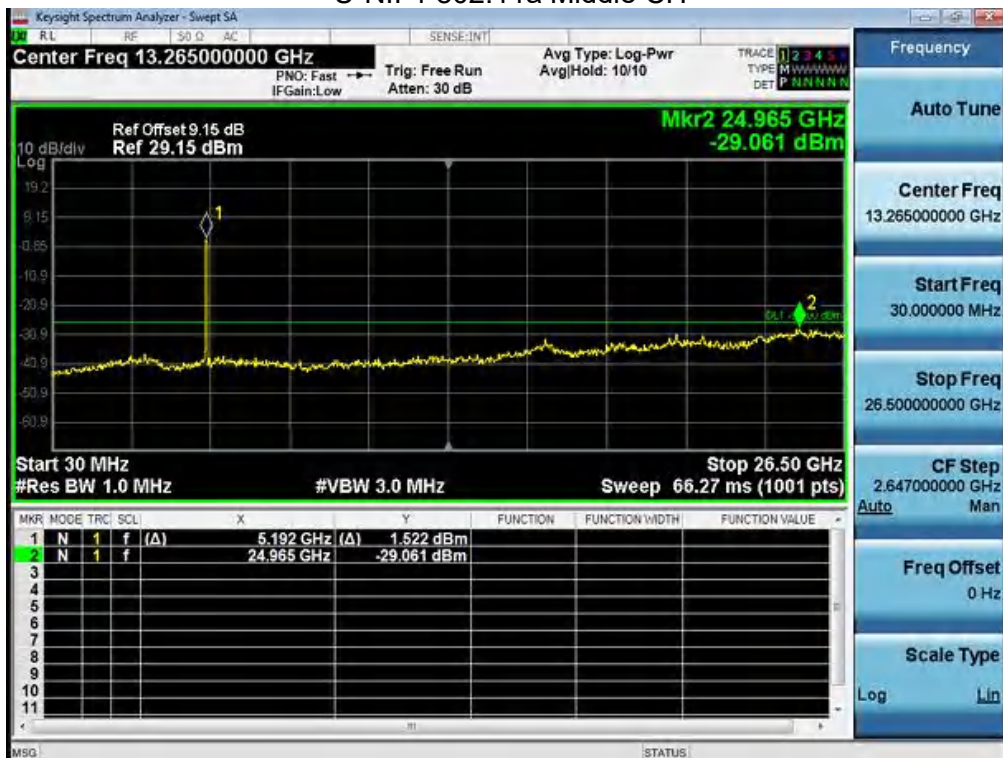


conducted spurious

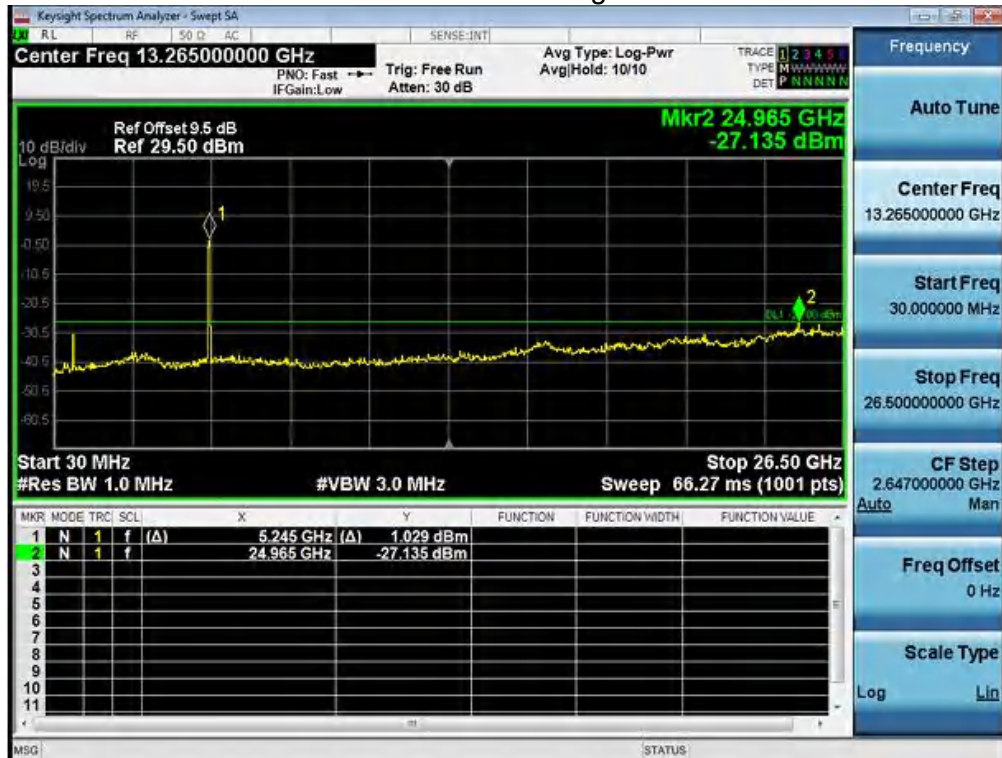
U-NII-1 802.11a Low CH



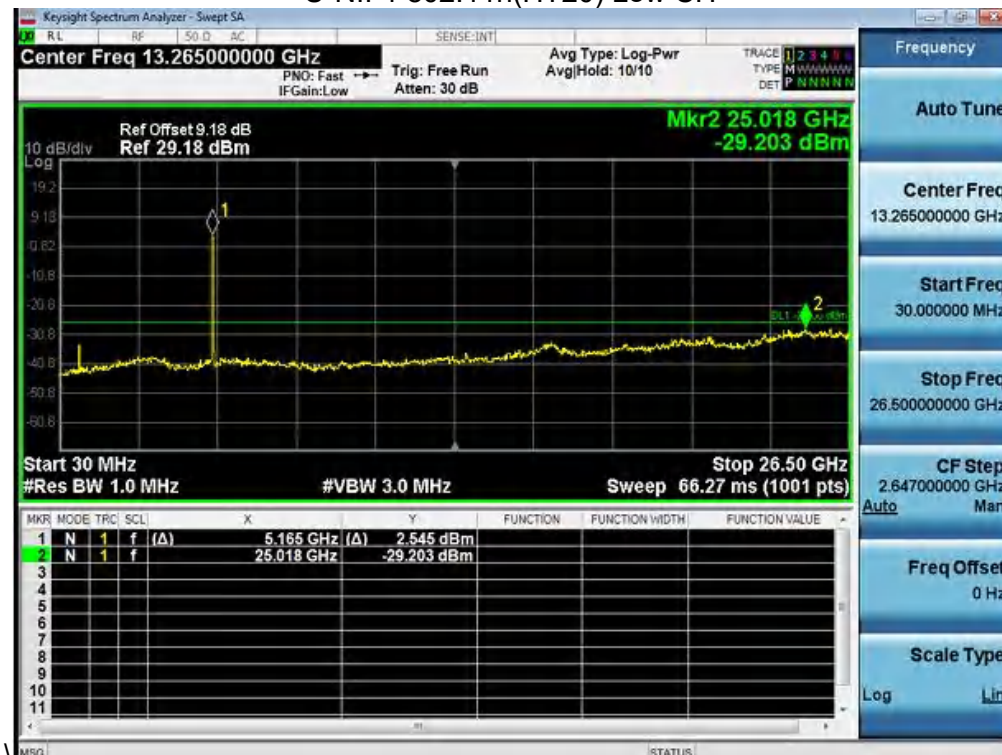
U-NII-1 802.11a Middle CH



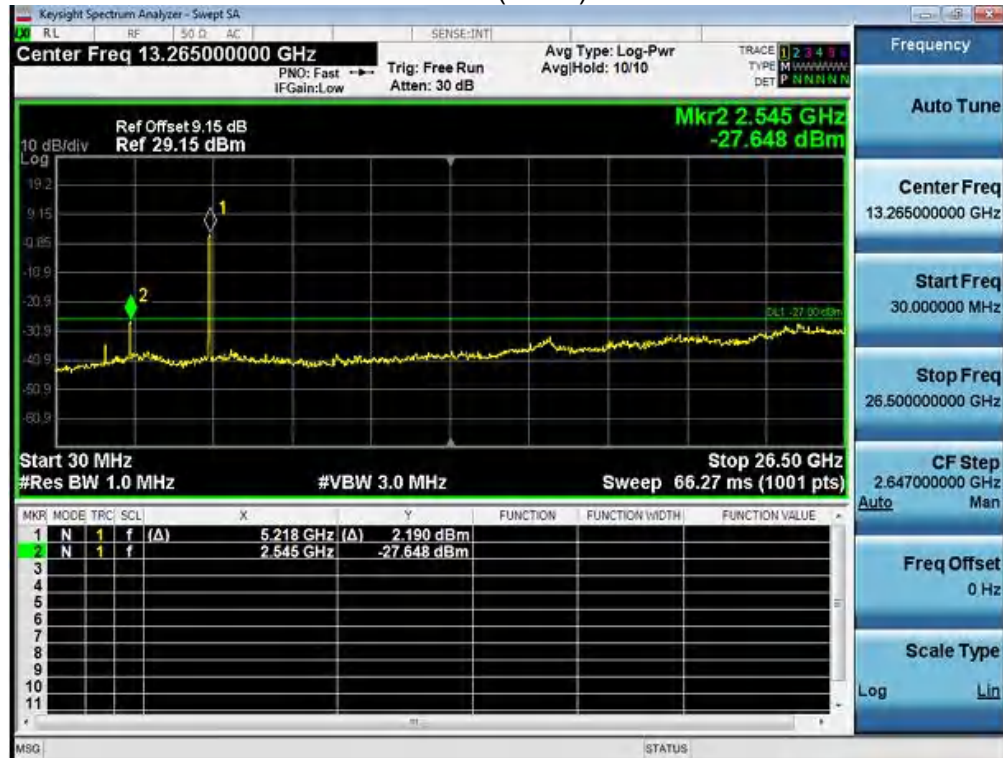
U-NII-1 802.11a High CH



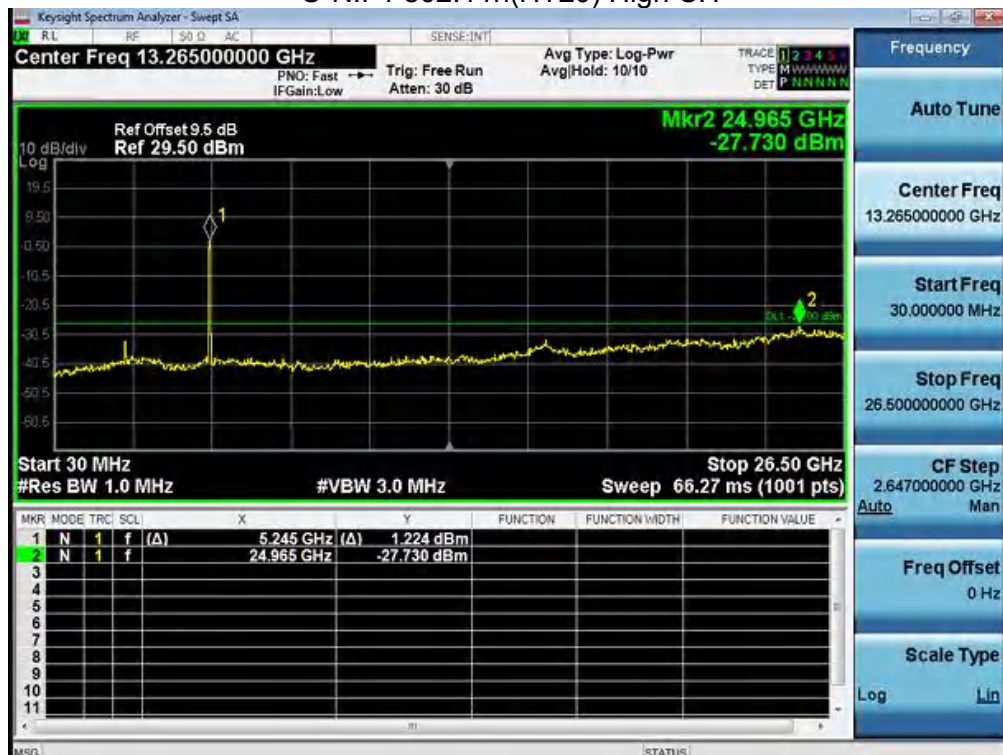
U-NII-1 802.11n(HT20) Low CH



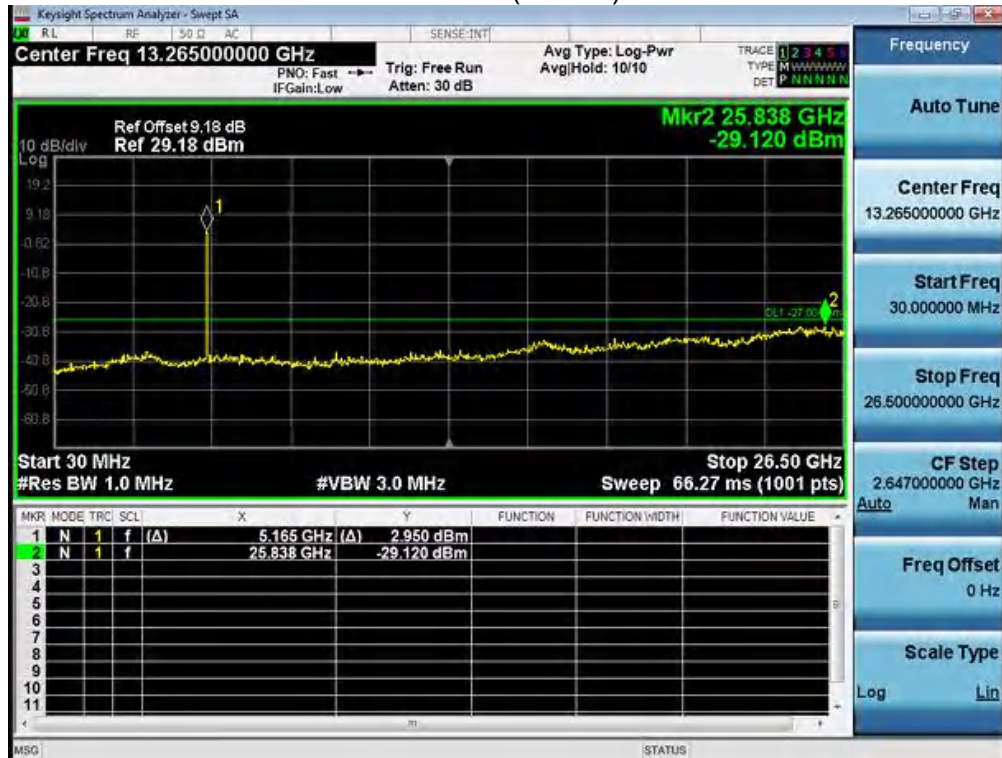
U-NII-1 802.11n(HT20) Middle CH



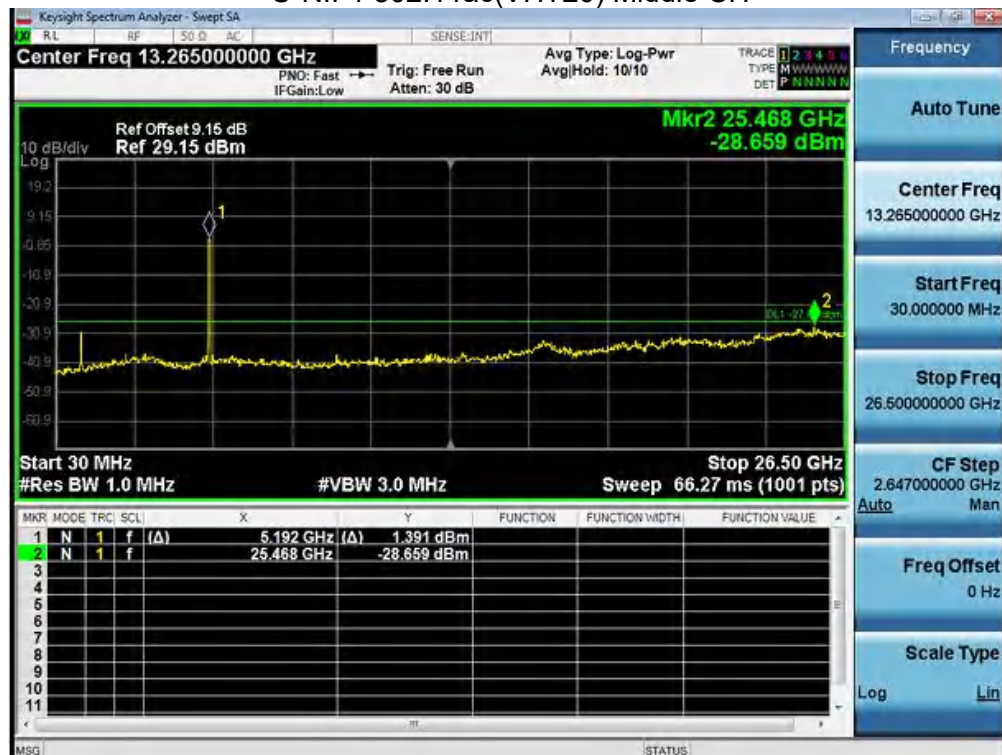
U-NII-1 802.11n(HT20) High CH



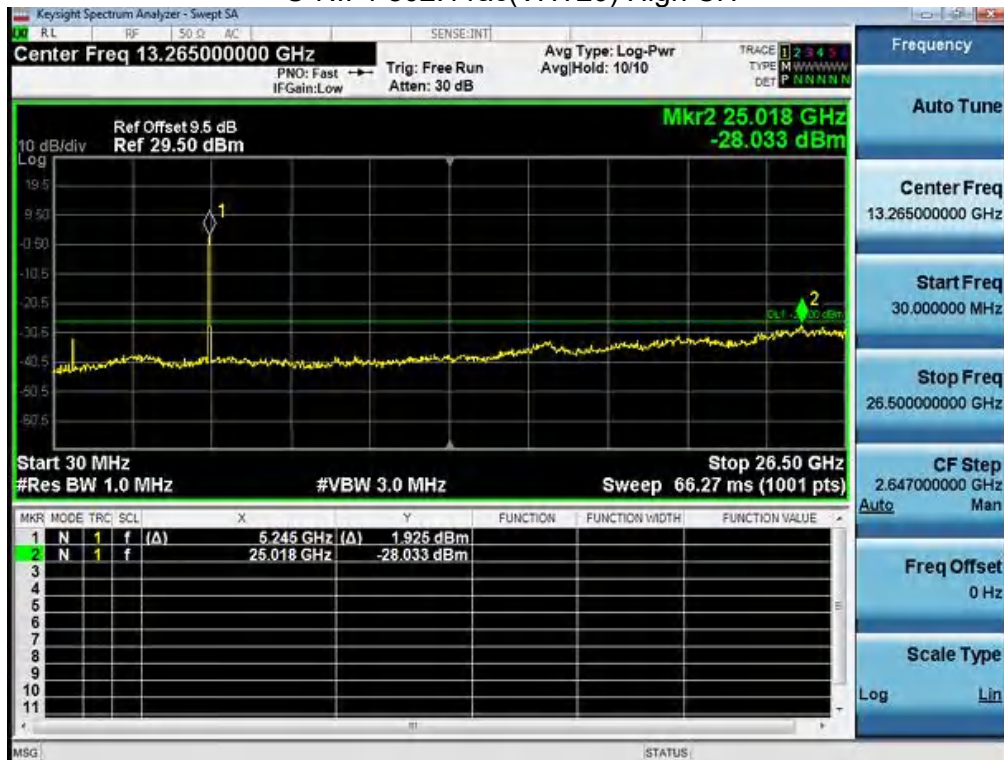
U-NII-1 802.11ac(VHT20) Low CH



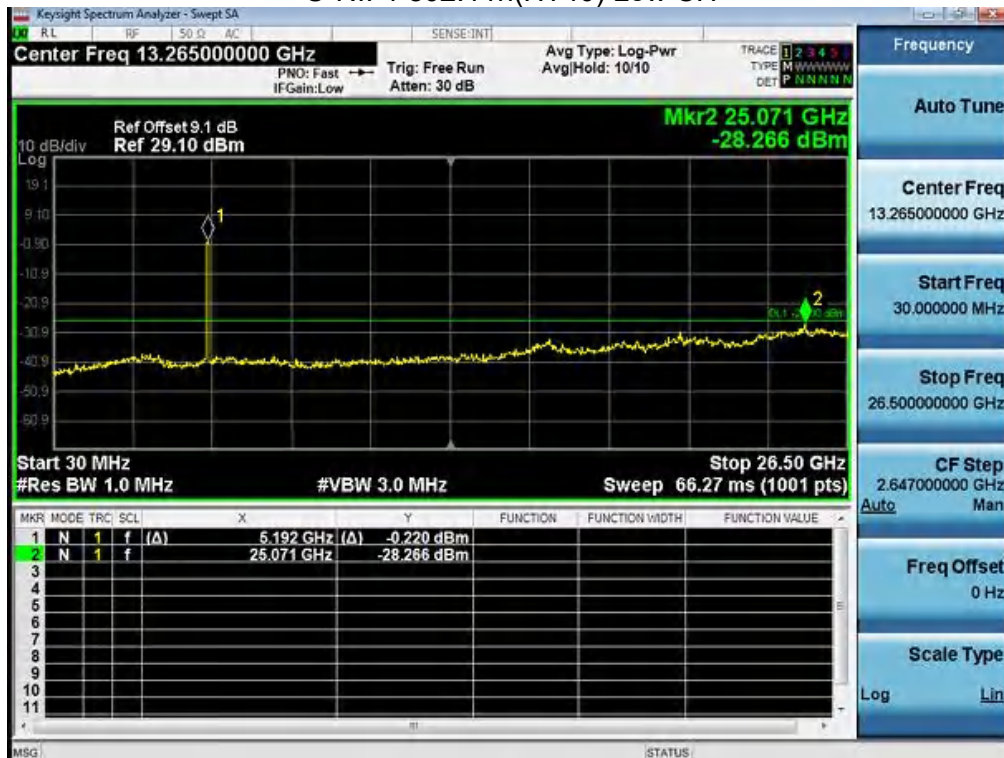
U-NII-1 802.11ac(VHT20) Middle CH



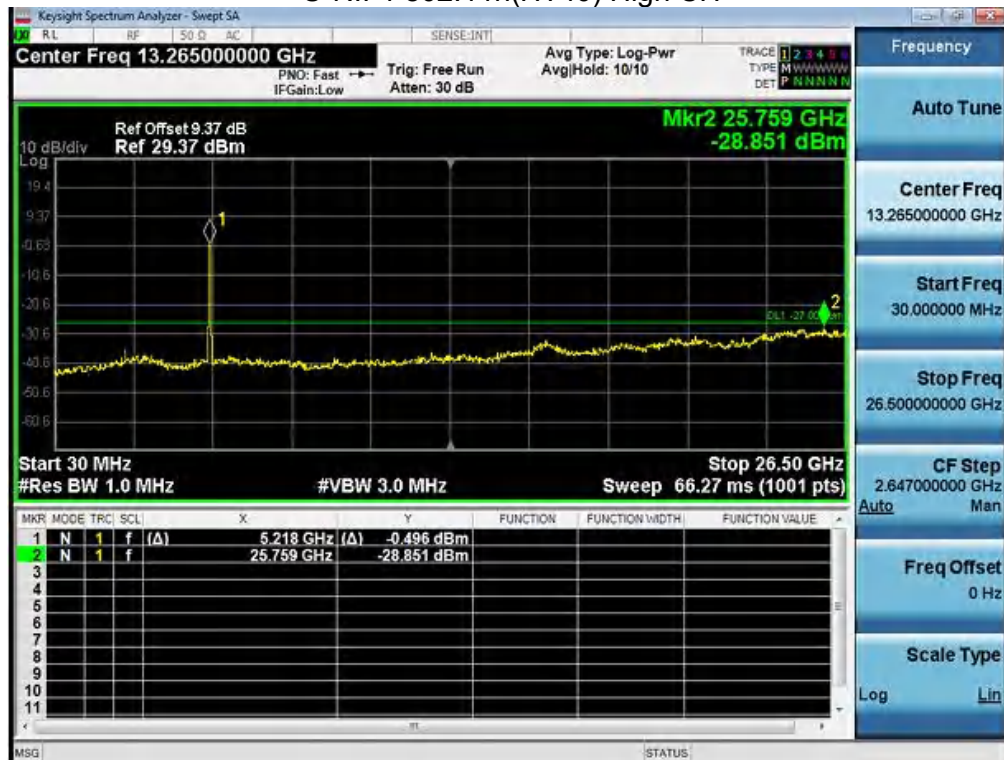
U-NII-1 802.11ac(VHT20) High CH



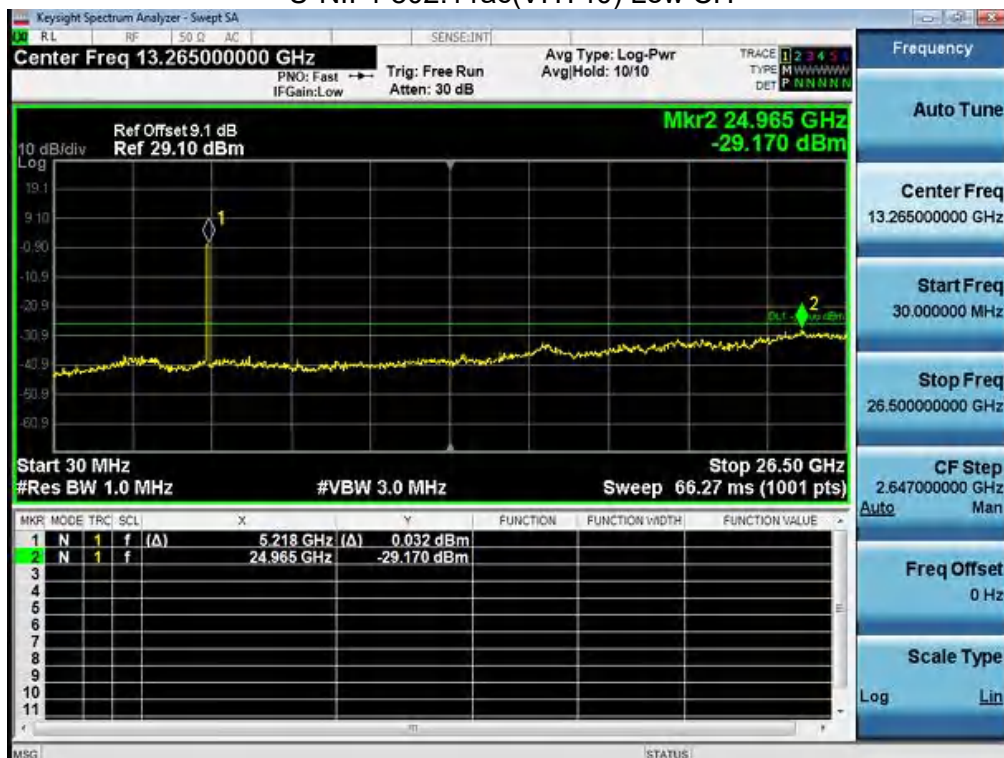
U-NII-1 802.11n(HT40) Low CH



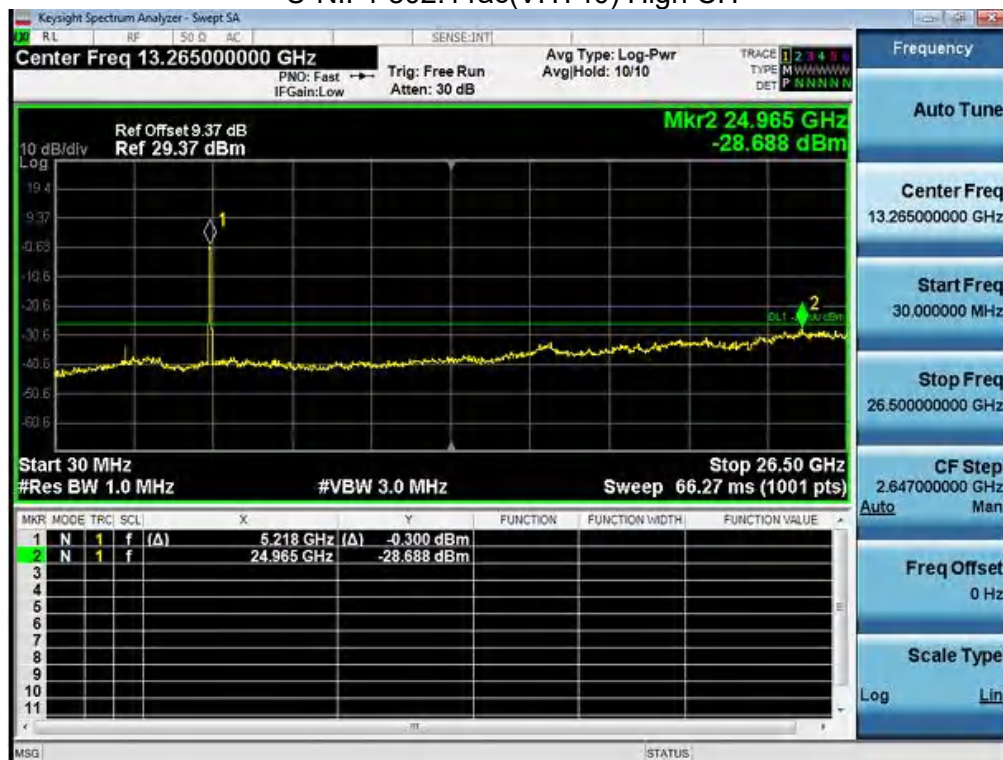
U-NII-1 802.11n(HT40) High CH



U-NII-1 802.11ac(VHT40) Low CH



U-NII-1 802.11ac(VHT40) High CH



U-NII-1 802.11ac(VHT80) Middle CH



Note:

- 1.The emission levels of other frequencies were less than 20dB margin against the limit.
- 2.The result contains the antenna gain.

8. Duty Cycle

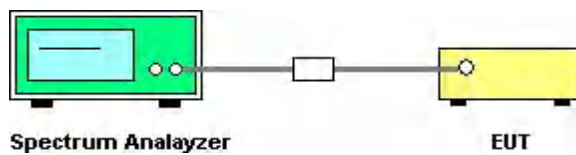
8.1 TEST REQUIREMENT

47 CFR Part 15C 15.407 and 789033 D02 General UNII Test
Procedures New Rules v02r01(December 14, 2017), Section (B)
ANSI C63.10: 2013

8.2 TEST PROCEDURE

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

8.3 TEST SETUP



8.4 TEST RESULTS

802.11a mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
36	100	100	100
48	100	100	100
802.11n(20) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
36	100	100	100
48	100	100	100
802.11n(40) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
38	100	100	100
46	100	100	100
802.11ac(20) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
36	100	100	100
48	100	100	100
802.11ac(40) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
38	100	100	100
46	100	100	100
802.11ac(80) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
42	100	100	100

9 RADIATED EMISSION MEASUREMENT

9.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating solely in the 5.725-5.850 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

9.2 TEST PROCEDURE

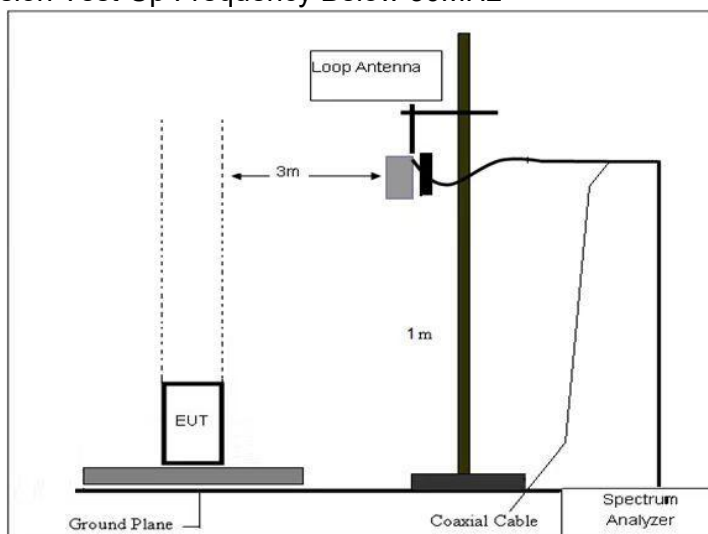
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

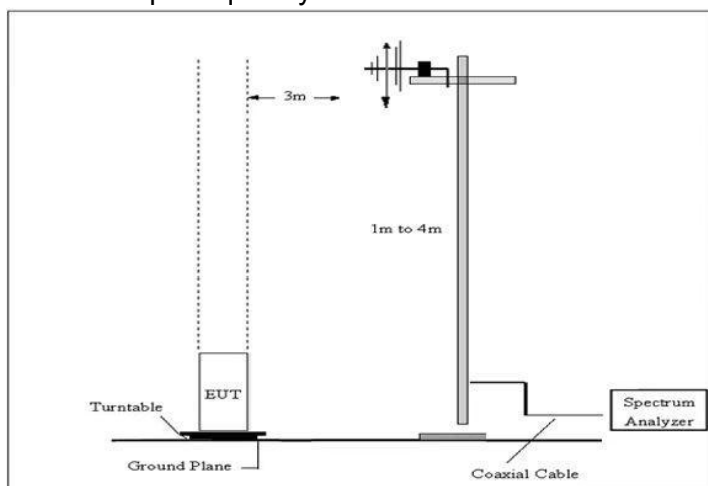
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

9.3 TESTSETUP

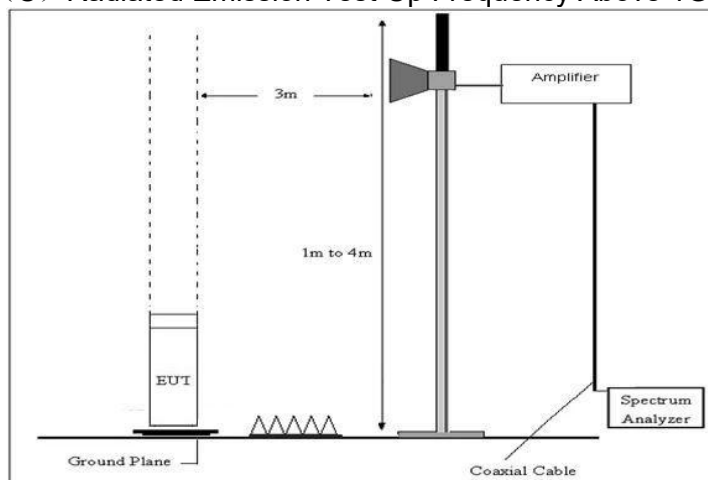
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



9.4. TEST RESULTS

(9KHz-30MHz)

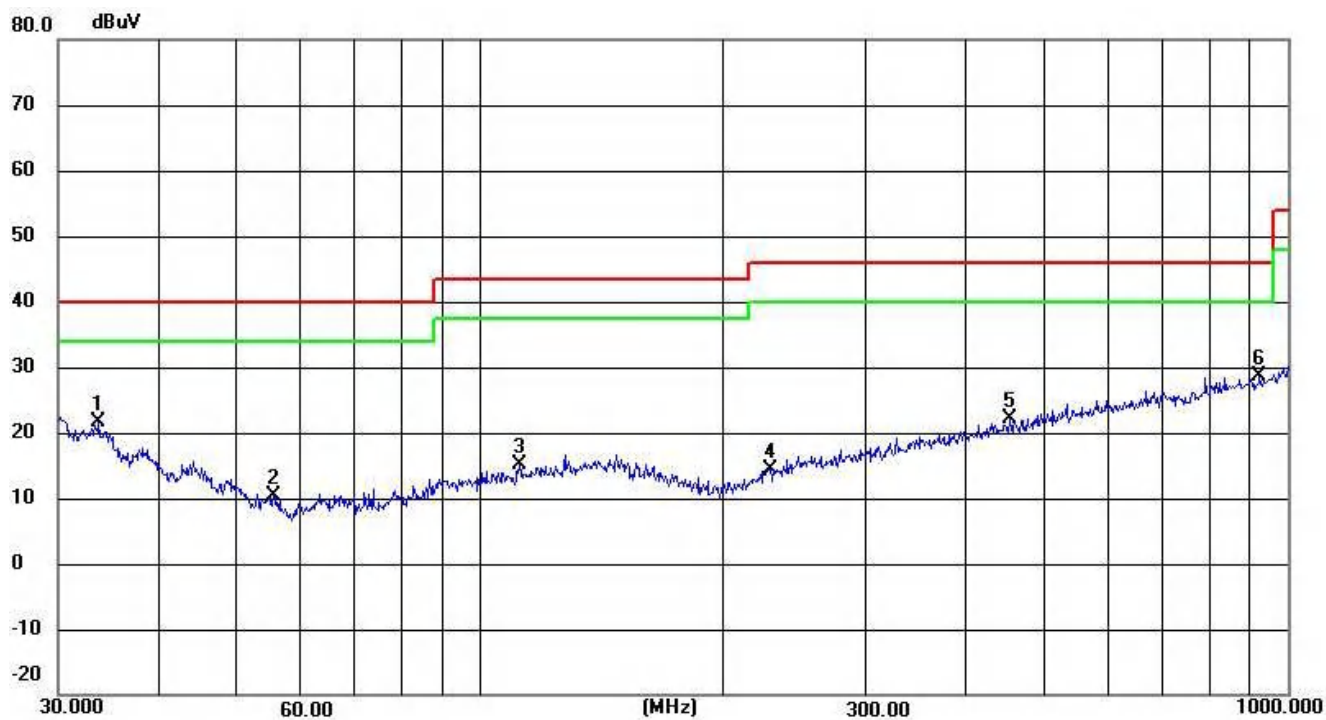
Note:

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

(30MHz-1000MHz)

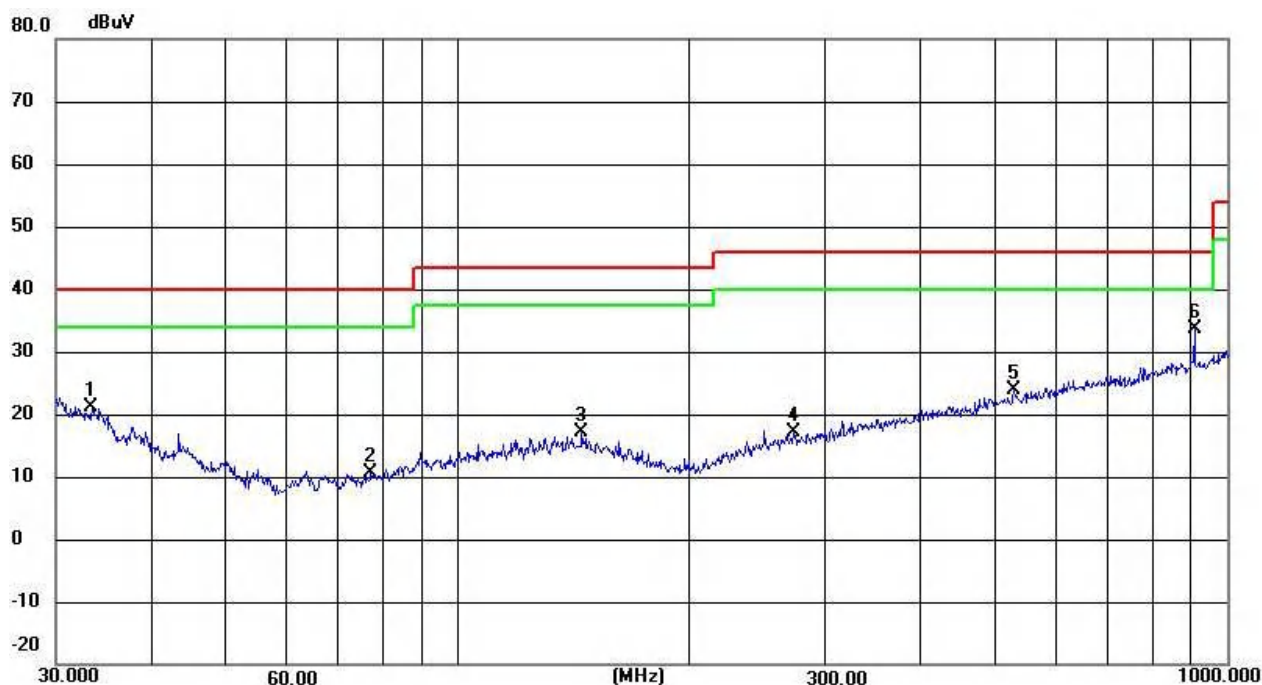
802.11a

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.6802	31.28	-9.65	21.63	40.00	-18.37	QP
2	55.4147	30.26	-19.80	10.46	40.00	-29.54	QP
3	111.7380	47.30	-32.18	15.12	43.50	-28.38	QP
4	228.4904	46.49	-32.01	14.48	46.00	-31.52	QP
5	452.7197	53.68	-31.44	22.24	46.00	-23.76	QP
6	922.5157	59.27	-30.68	28.59	46.00	-17.41	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.4449	30.51	-9.50	21.01	40.00	-18.99	QP
2	77.0505	42.78	-32.15	10.63	40.00	-29.37	QP
3	144.8418	49.18	-32.13	17.05	43.50	-26.45	QP
4	273.2341	49.04	-31.94	17.10	46.00	-28.90	QP
5	528.2458	55.01	-31.25	23.76	46.00	-22.24	QP
6	906.4824	64.20	-30.69	33.51	46.00	-12.49	QP

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

2. All modes were tested, and mode 802.11a had the worst data. Only the worst mode is reflected in the report.

(1GHz~40GHz) Restricted band and Spurious emission Requirements

Polar (H/V)		Frequency	Meter Reading	Pre- amplifier	Cable LosS	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
		(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz										
V	10360	45.76	32.7	7.72	38.59	59.37	68.2	-8.83	PK	
V	10360	24.44	32.7	7.72	38.59	38.05	54	-15.95	AV	
V	15540	43.17	31.74	9.44	39.29	60.16	74	-13.84	PK	
V	15540	18.34	31.74	9.44	39.29	35.33	54	-18.67	AV	
V	20720	42.69	26.93	6.64	37.94	60.34	74	-13.66	PK	
V	20720	19.15	26.93	6.64	37.94	36.8	54	-17.2	AV	
V	25900	36.95	27.1	7.9	39.32	57.07	68.2	-11.13	PK	
V	25900	22.75	27.1	7.9	39.32	42.87	54	-11.13	AV	
H	10360	38.59	32.7	7.72	38.59	52.2	68.2	-16	PK	
H	10360	23.14	32.7	7.72	38.59	36.75	54	-17.25	AV	
H	15540	38.81	31.74	9.44	39.29	55.8	74	-18.2	PK	
H	15540	23.16	31.74	9.44	39.29	40.15	54	-13.85	AV	
H	20720	42.22	26.93	6.64	37.94	59.87	74	-14.13	PK	
H	20720	17.51	26.93	6.64	37.94	35.16	54	-18.84	AV	
H	25900	40.13	27.1	7.9	39.32	60.25	68.2	-7.95	PK	
H	25900	20.75	27.1	7.9	39.32	40.87	54	-13.13	AV	

Polar (H/V)		Frequency	Meter Reading	Pre- amplifier	Cable LosS	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
		(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz										
V	10400	44.72	32.69	7.73	38.62	58.38	68.2	-9.82	PK	
V	10400	25.7	32.69	7.73	38.62	39.36	54	-14.64	AV	
V	15600	40.51	31.72	9.45	39.28	57.52	74	-16.48	PK	
V	15600	21.08	31.72	9.45	39.28	38.09	54	-15.91	AV	
V	20800	38.14	26.93	6.73	37.96	55.9	74	-18.1	PK	
V	20800	21.46	26.93	6.73	37.96	39.22	54	-14.78	AV	
V	26000	38.28	27.1	7.94	39.3	58.42	68.2	-9.78	PK	
V	26000	17.21	27.1	7.94	39.3	37.35	54	-16.65	AV	
H	10400	42.85	32.69	7.73	38.62	56.51	68.2	-11.69	PK	
H	10400	21.33	32.69	7.73	38.62	34.99	54	-19.01	AV	
H	15600	39.74	31.72	9.45	39.28	56.75	74	-17.25	PK	
H	15600	21.36	31.72	9.45	39.28	38.37	54	-15.63	AV	
H	20800	40.07	26.93	6.73	37.96	57.83	74	16.17	PK	
H	20800	19.46	26.93	6.73	37.96	37.22	54	-16.78	AV	
H	26000	38.51	27.1	7.94	39.3	58.65	68.2	-9.55	PK	
H	26000	17.07	27.1	7.94	39.3	37.21	54	-16.79	AV	

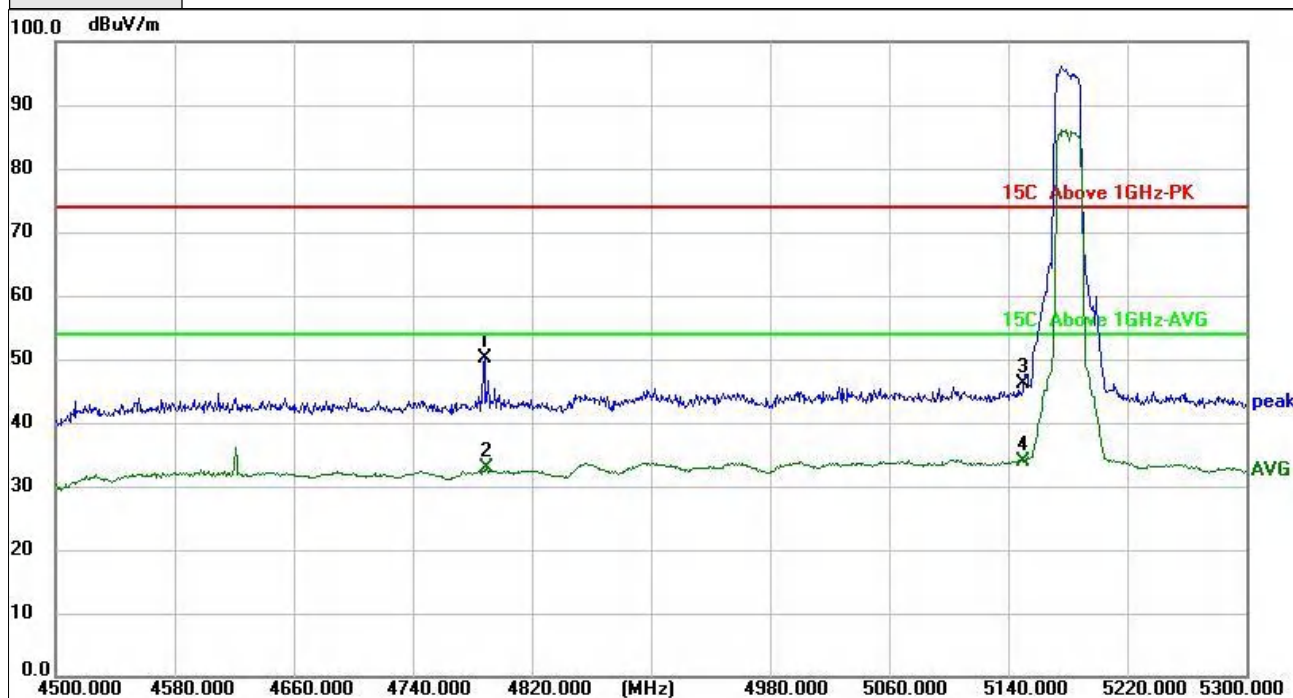
Polar (H/V)		Frequency	Meter Reading	Pre- amplifier	Cable LosS	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
		(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz										
V	10480	40.9	32.66	7.74	38.68	54.66	68.2	-13.54	PK	
V	10480	25.55	32.66	7.74	38.68	39.31	54	-14.69	AV	
V	15720	37.59	31.68	9.48	39.26	54.65	74	-19.35	PK	
V	15720	18.59	31.68	9.48	39.26	35.65	54	-18.35	AV	
V	20960	38.05	26.94	6.91	37.99	56.01	74	-17.99	PK	
V	20960	20.77	26.94	6.91	37.99	38.73	54	-15.27	AV	
V	26200	39.22	27.1	7.89	39.5	59.51	68.2	-8.69	PK	
V	26200	16.02	27.1	7.89	39.5	36.31	54	-17.69	AV	
H	10480	45.75	32.66	7.74	38.68	59.51	68.2	-8.69	PK	
H	10480	24.58	32.66	7.74	38.68	38.34	54	-15.66	AV	
H	15720	41.07	31.68	9.48	39.26	58.13	74	-15.87	PK	
H	15720	21.09	31.68	9.48	39.26	38.15	54	-15.85	AV	
H	20960	39.61	26.94	6.91	37.99	57.57	74	-16.43	PK	
H	20960	21.14	26.94	6.91	37.99	39.1	54	-14.9	AV	
H	26200	35.69	27.1	7.89	39.5	55.98	68.2	-12.22	PK	
H	26200	18.91	27.1	7.89	39.5	39.2	54	-14.8	AV	

Remark:

1. Emission Level=Meter Reading+Antenna Factor+Cable Loss-Pre-amplifier,
Margin=Emission Level-Limit
- 2.If peak below the average limit,the average emission was no test.
- 3.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4.The worst mode is 802.11a,only the worst data is recorded.

Radiated Band Edge data

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11a 36 Horizontal		



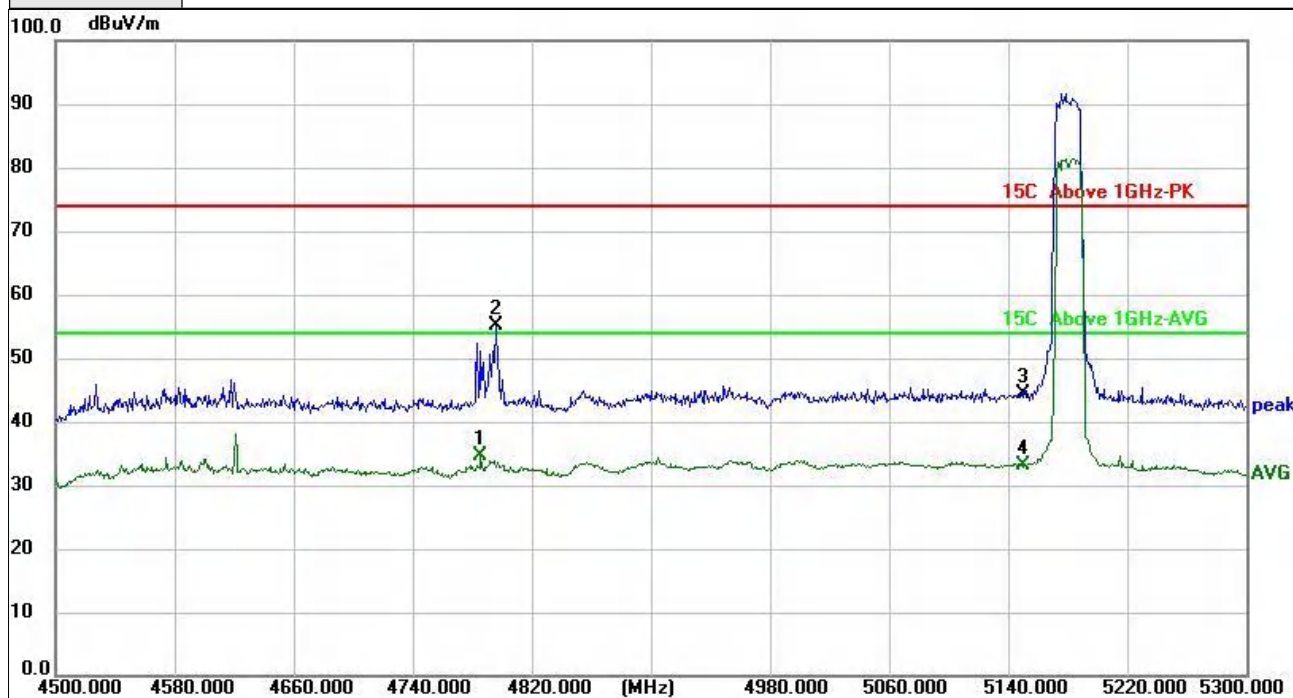
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4788.000	56.04	-5.98	50.06	74.00	-23.94	peak
2	4789.600	38.97	-5.97	33.00	54.00	-21.00	AVG
3	5150.000	50.92	-4.86	46.06	74.00	-27.94	peak
4 *	5150.000	38.71	-4.86	33.85	54.00	-20.15	AVG

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

Note:(1)Emission Level=Antenna Factor+Cable Loss+Read Level-Preamplifier Factor.

(2)When PK value is lower than the Average value limit,average don't record.

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11a 36 Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4788.000	56.04	-5.98	50.06	74.00	-23.94	peak
2	4789.600	38.97	-5.97	33.00	54.00	-21.00	AVG
3	5150.000	50.92	-4.86	46.06	74.00	-27.94	peak
4 *	5150.000	38.71	-4.86	33.85	54.00	-20.15	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11a 48 Horizontal		



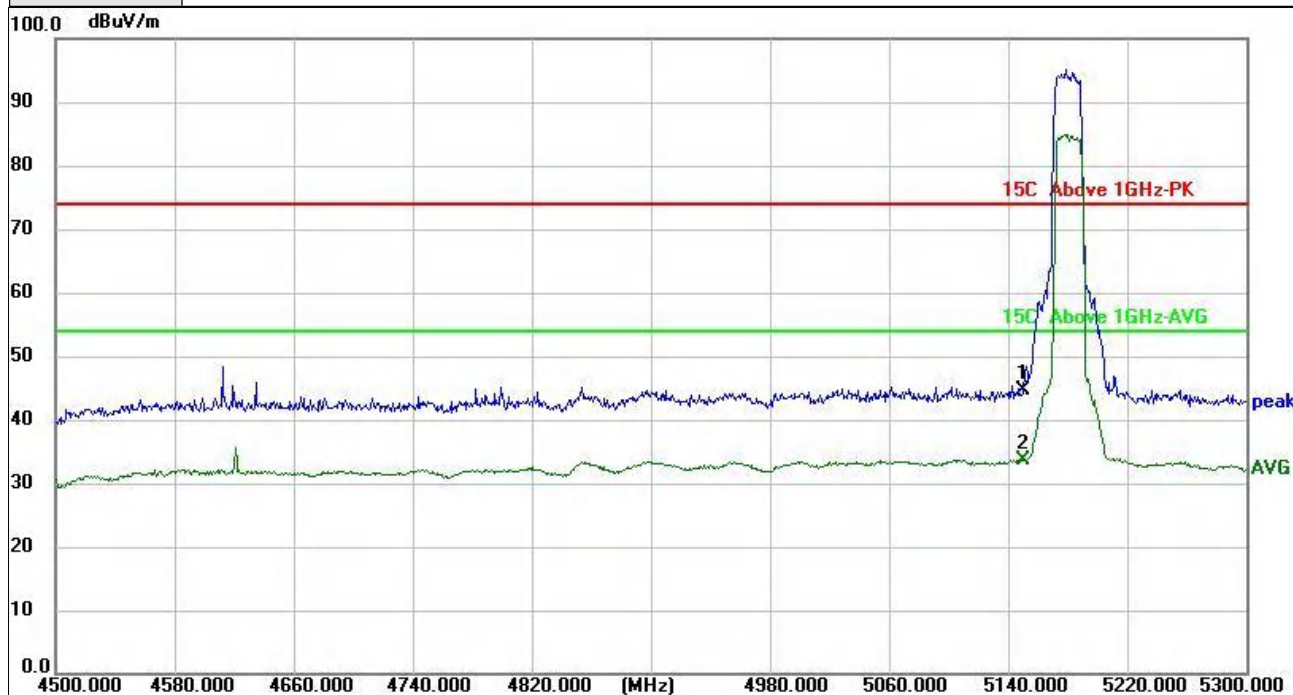
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	49.63	-4.46	45.17	74.00	-28.83	peak
2	5350.000	38.24	-4.46	33.78	54.00	-20.22	AVG
3	5388.640	54.78	-4.41	50.37	74.00	-23.63	peak
4 *	5395.040	41.76	-4.38	37.38	54.00	-16.62	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11a 48 Vertical		



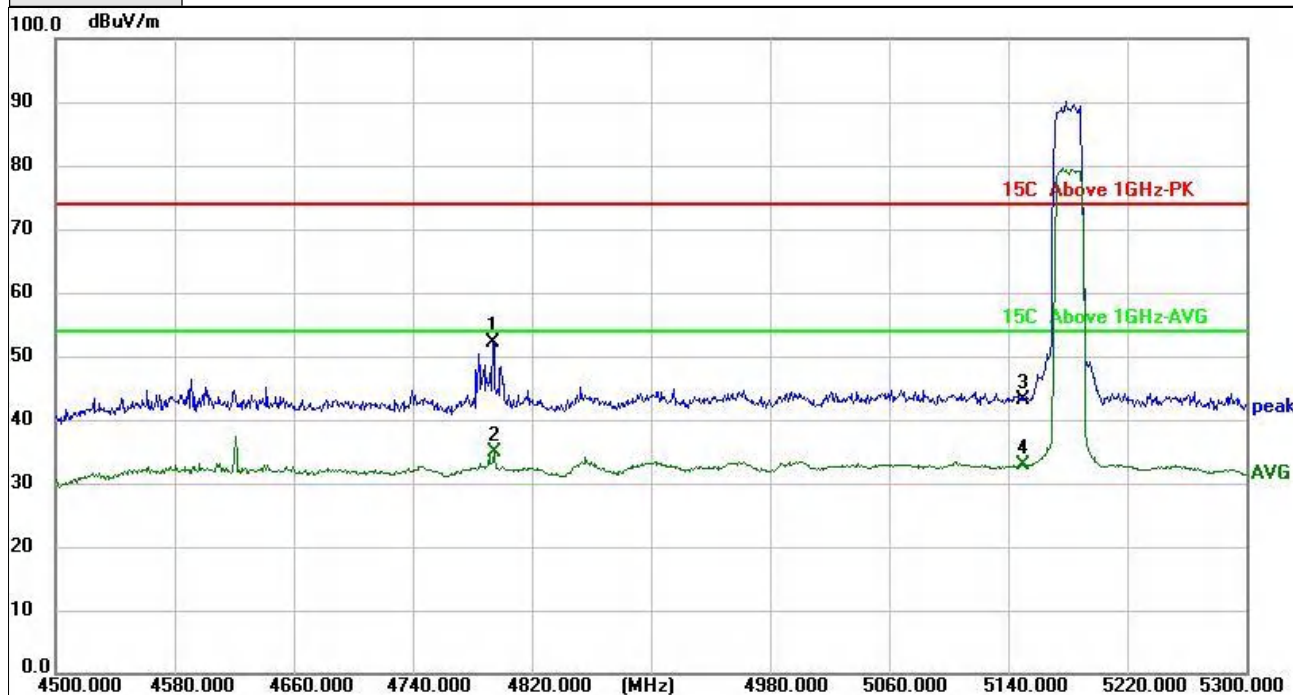
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	49.48	-4.46	45.02	74.00	-28.98	peak
2	5350.000	38.14	-4.46	33.68	54.00	-20.32	AVG
3	5393.120	54.92	-4.39	50.53	74.00	-23.47	peak
4 *	5396.960	41.99	-4.38	37.61	54.00	-16.39	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N20 36 Horizontal		



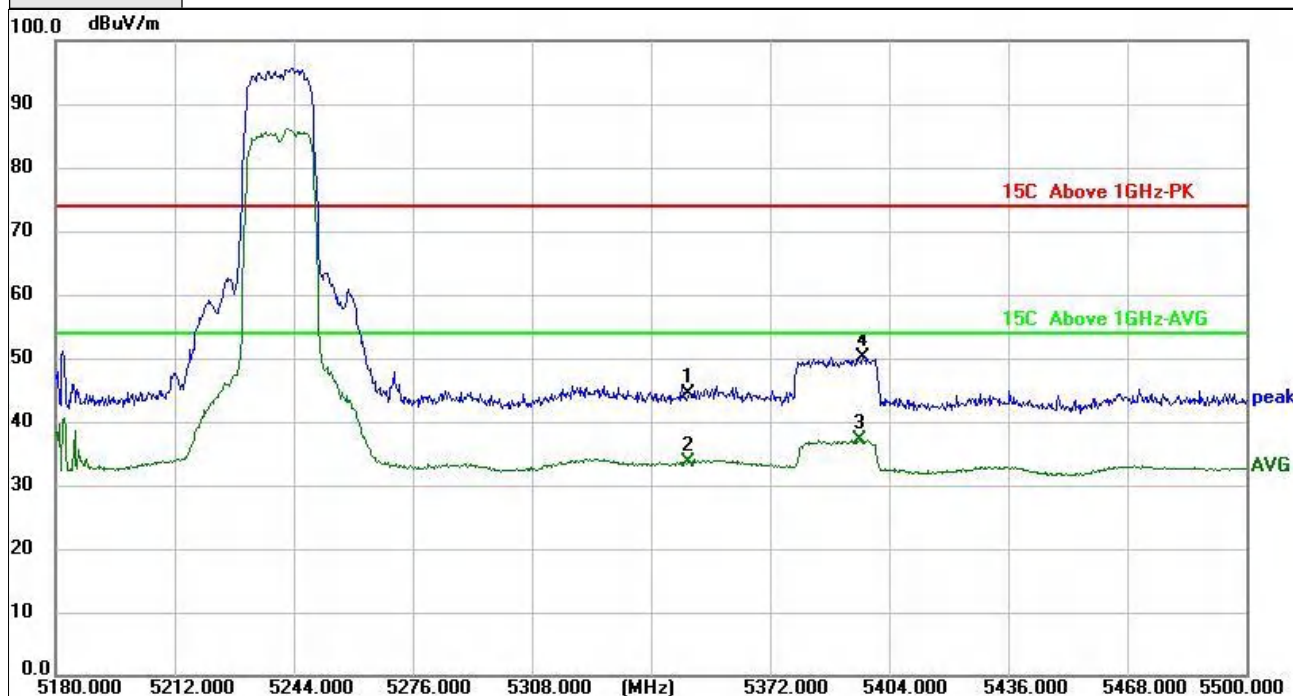
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	49.44	-4.86	44.58	74.00	-29.42	peak
2 *	5150.000	38.45	-4.86	33.59	54.00	-20.41	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N20 36 Vertical		



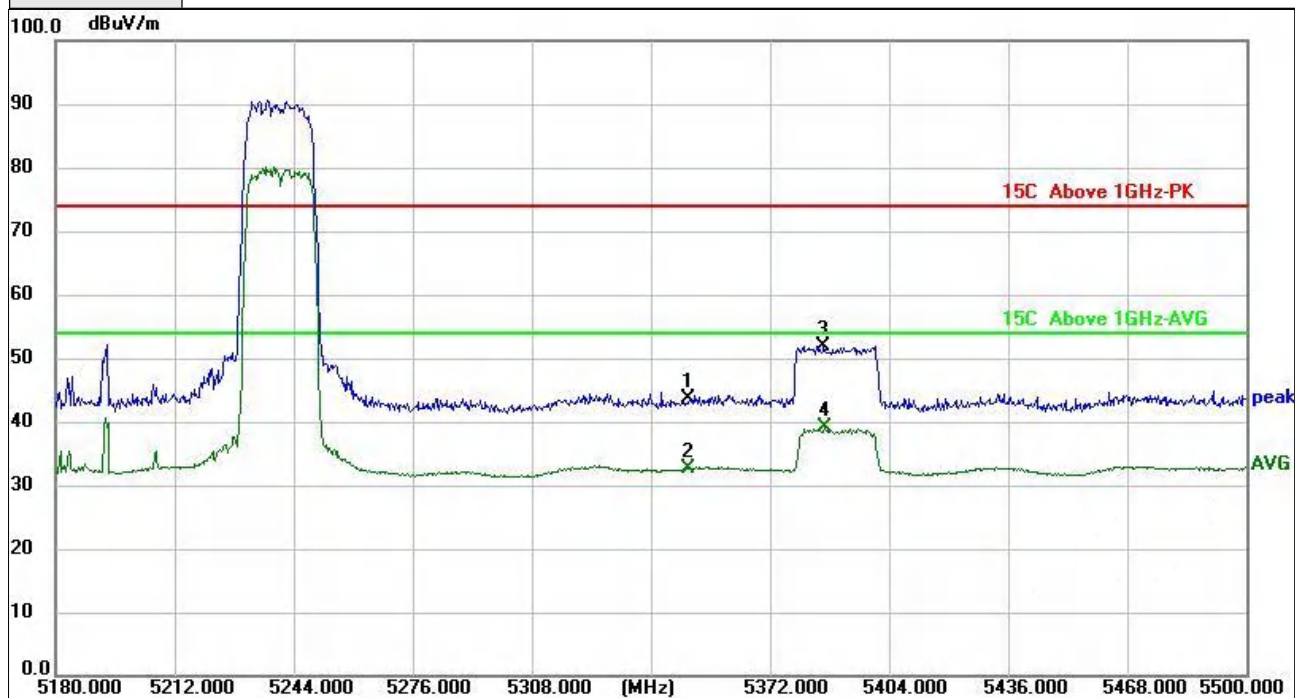
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4793.600	58.19	-5.94	52.25	74.00	-21.75	peak
2 *	4794.400	40.84	-5.94	34.90	54.00	-19.10	AVG
3	5150.000	48.11	-4.86	43.25	74.00	-30.75	peak
4	5150.000	37.63	-4.86	32.77	54.00	-21.23	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N20 48 Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	48.77	-4.46	44.31	74.00	-29.69	peak
2	5350.000	37.98	-4.46	33.52	54.00	-20.48	AVG
3 *	5396.000	41.57	-4.38	37.19	54.00	-16.81	AVG
4	5396.960	54.43	-4.38	50.05	74.00	-23.95	peak

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N20 48 Vertical		



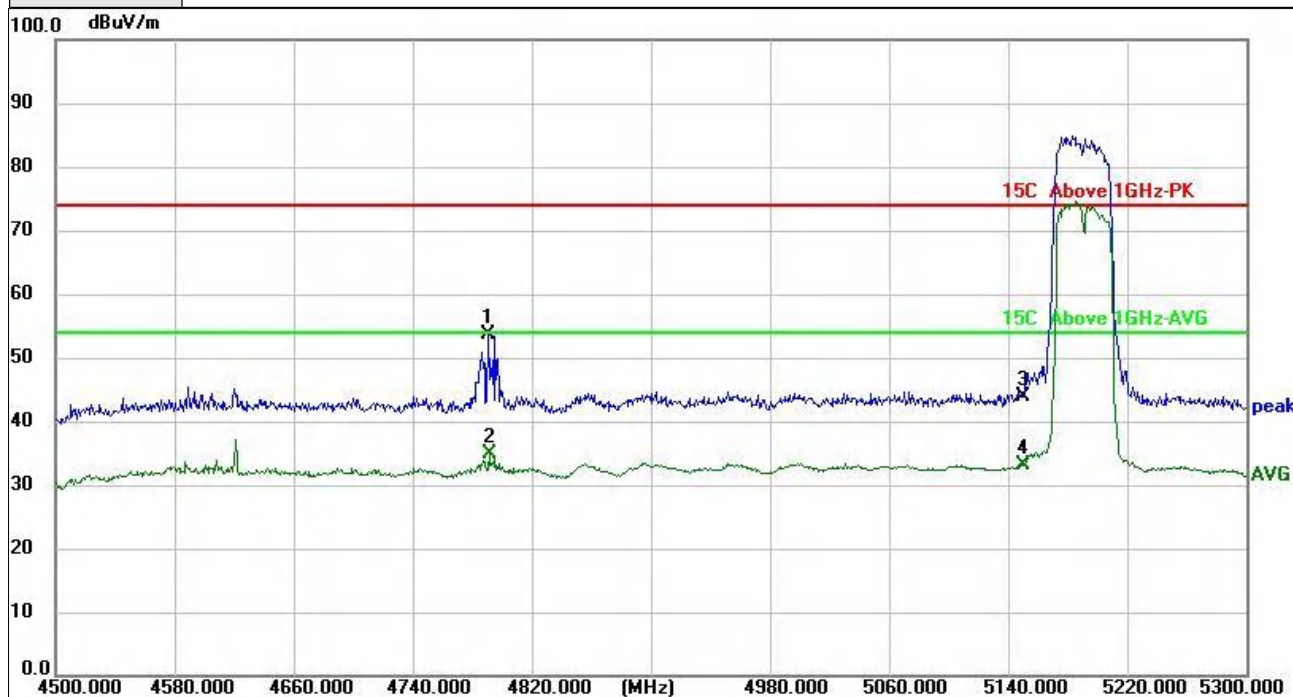
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	48.01	-4.46	43.55	74.00	-30.45	peak
2	5350.000	36.98	-4.46	32.52	54.00	-21.48	AVG
3	5386.400	56.41	-4.41	52.00	74.00	-22.00	peak
4 *	5386.720	43.42	-4.41	39.01	54.00	-14.99	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N40 38 Horizontal		



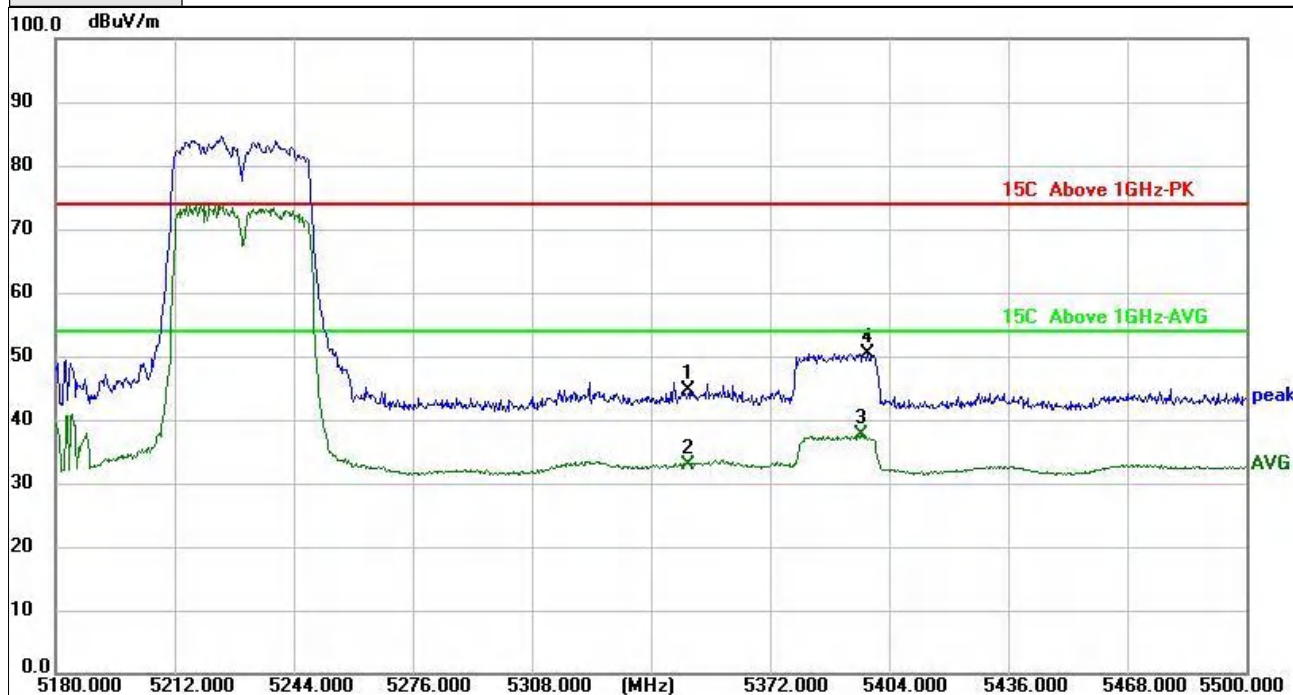
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4786.400	54.69	-5.98	48.71	74.00	-25.29	peak
2	4796.000	38.45	-5.93	32.52	54.00	-21.48	AVG
3	5150.000	50.62	-4.86	45.76	74.00	-28.24	peak
4 *	5150.000	38.09	-4.86	33.23	54.00	-20.77	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N40 38 Vertical		



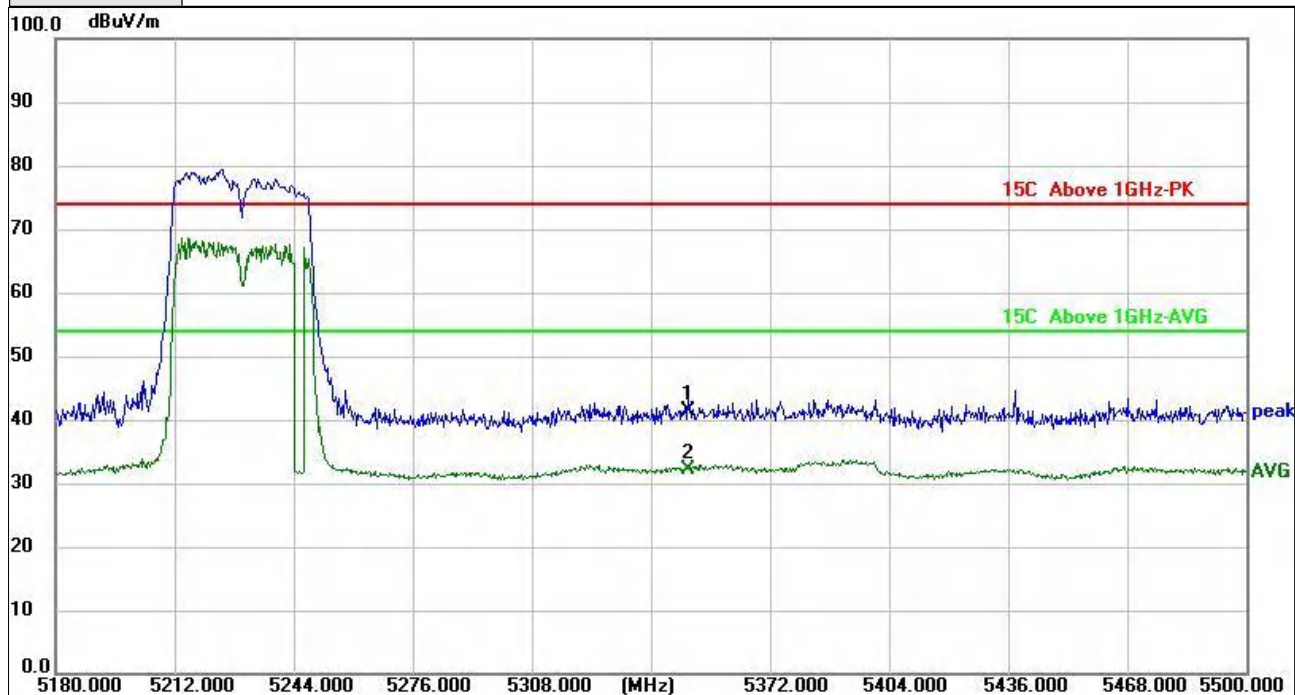
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4790.400	59.53	-5.95	53.58	74.00	-20.42	peak
2 *	4791.200	40.78	-5.95	34.83	54.00	-19.17	AVG
3	5150.000	48.83	-4.86	43.97	74.00	-30.03	peak
4	5150.000	37.96	-4.86	33.10	54.00	-20.90	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N40 46 Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	49.20	-4.46	44.74	74.00	-29.26	peak
2	5350.000	37.41	-4.46	32.95	54.00	-21.05	AVG
3 *	5396.320	42.08	-4.38	37.70	54.00	-16.30	AVG
4	5398.240	54.82	-4.38	50.44	74.00	-23.56	peak

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11N40 46 Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	45.93	-4.46	41.47	74.00	-32.53	peak
2 *	5350.000	36.66	-4.46	32.20	54.00	-21.80	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC20 36 Horizontal		



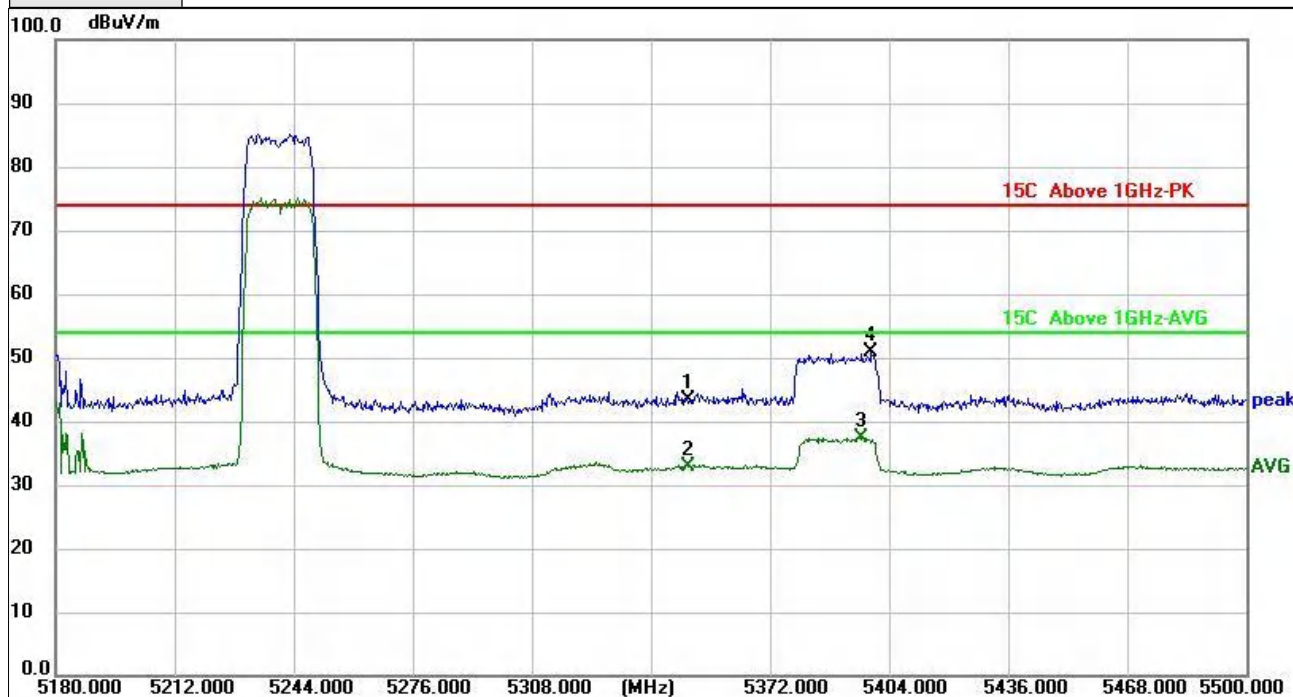
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	47.57	-4.86	42.71	74.00	-31.29	peak
2 *	5150.000	37.30	-4.86	32.44	54.00	-21.56	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC20 36 Vertical		



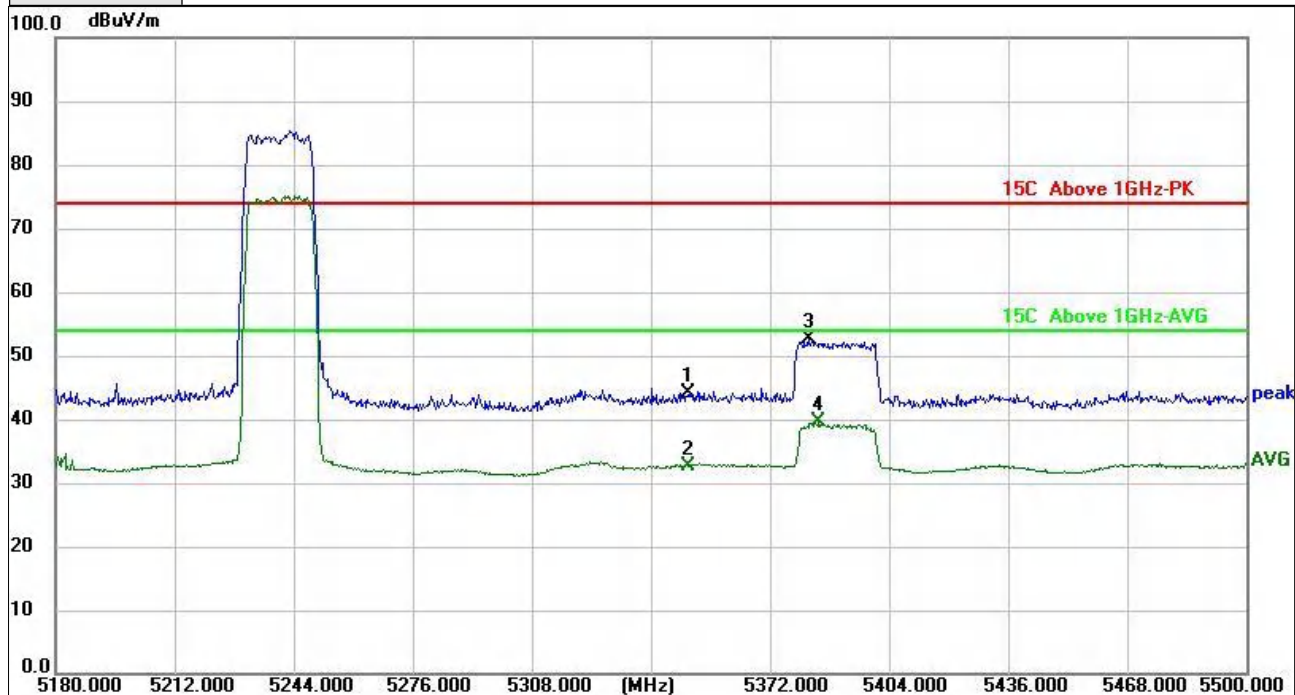
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4784.800	40.38	-5.99	34.39	54.00	-19.61	AVG
2	4788.800	57.77	-5.97	51.80	74.00	-22.20	peak
3	5150.000	47.60	-4.86	42.74	74.00	-31.26	peak
4	5150.000	37.61	-4.86	32.75	54.00	-21.25	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC20 48 Horizontal		



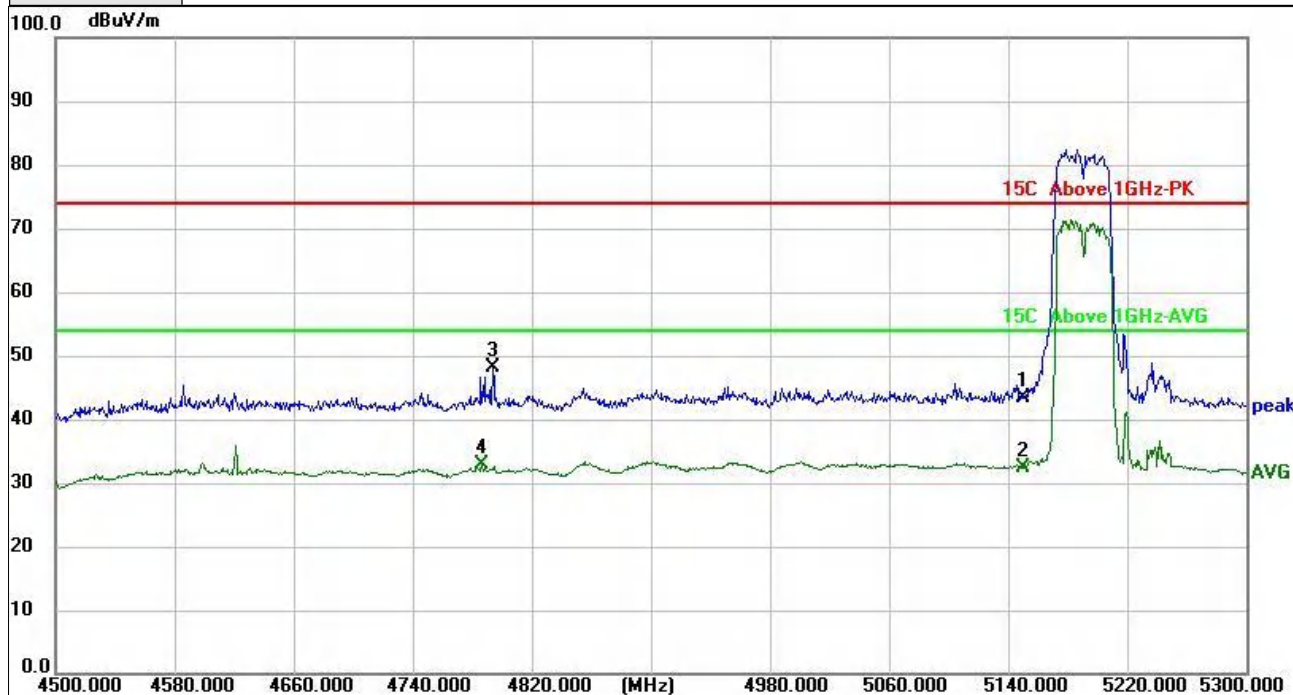
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	47.93	-4.46	43.47	74.00	-30.53	peak
2	5350.000	37.23	-4.46	32.77	54.00	-21.23	AVG
3 *	5396.320	41.81	-4.38	37.43	54.00	-16.57	AVG
4	5399.200	55.15	-4.38	50.77	74.00	-23.23	peak

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC20 48 Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	48.62	-4.46	44.16	74.00	-29.84	peak
2	5350.000	37.08	-4.46	32.62	54.00	-21.38	AVG
3	5382.240	56.99	-4.41	52.58	74.00	-21.42	peak
4 *	5385.120	43.97	-4.41	39.56	54.00	-14.44	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC40 38 Horizontal		



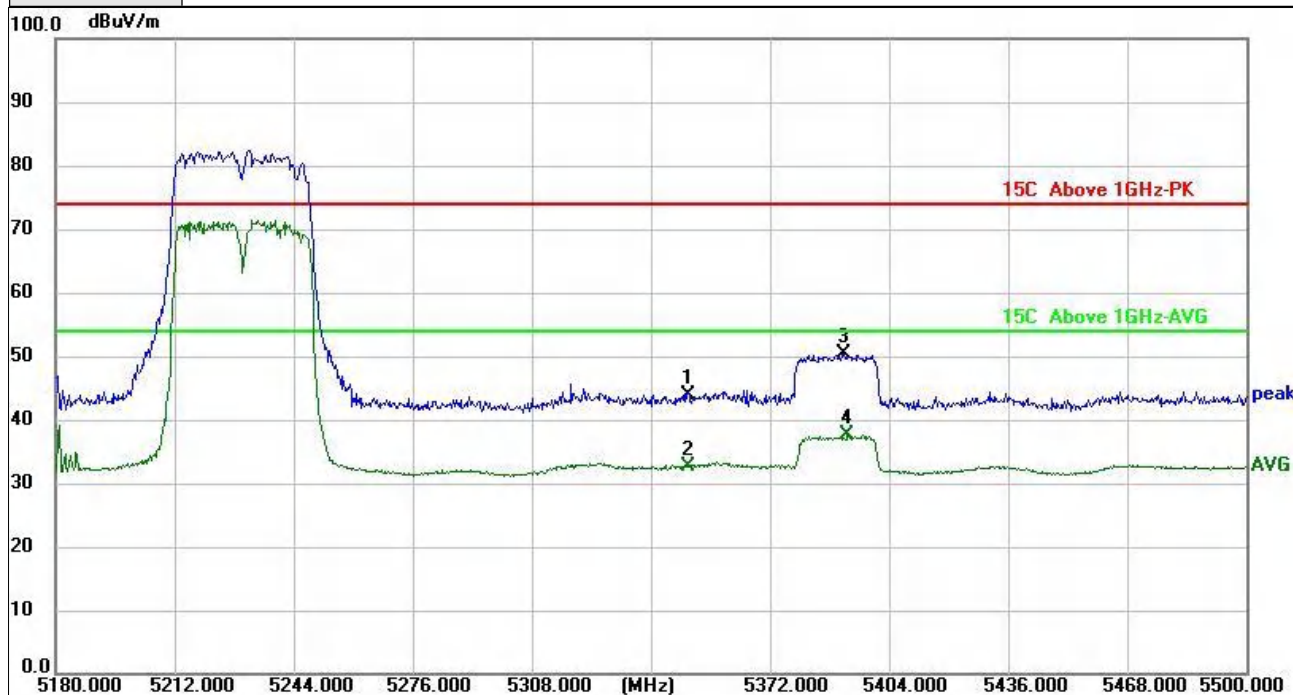
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	48.19	-4.86	43.33	74.00	-30.67	peak
2	5150.000	37.35	-4.86	32.49	54.00	-21.51	AVG
3	4793.600	54.06	-5.94	48.12	74.00	-25.88	peak
4 *	4786.400	38.74	-5.98	32.76	54.00	-21.24	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC40 38 Vertical		



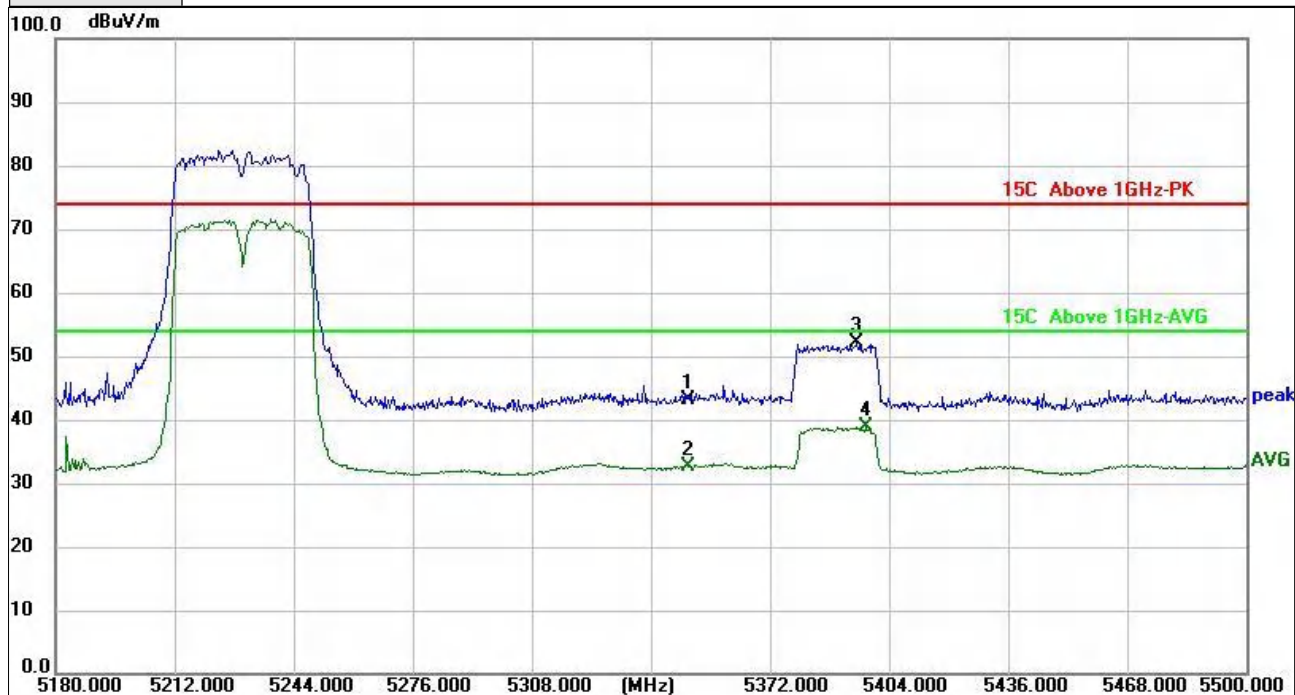
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4786.400	40.13	-5.98	34.15	54.00	-19.85	AVG
2	4793.600	58.60	-5.94	52.66	74.00	-21.34	peak
3	5150.000	48.17	-4.86	43.31	74.00	-30.69	peak
4	5150.000	37.57	-4.86	32.71	54.00	-21.29	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC40 46 Horizontal		



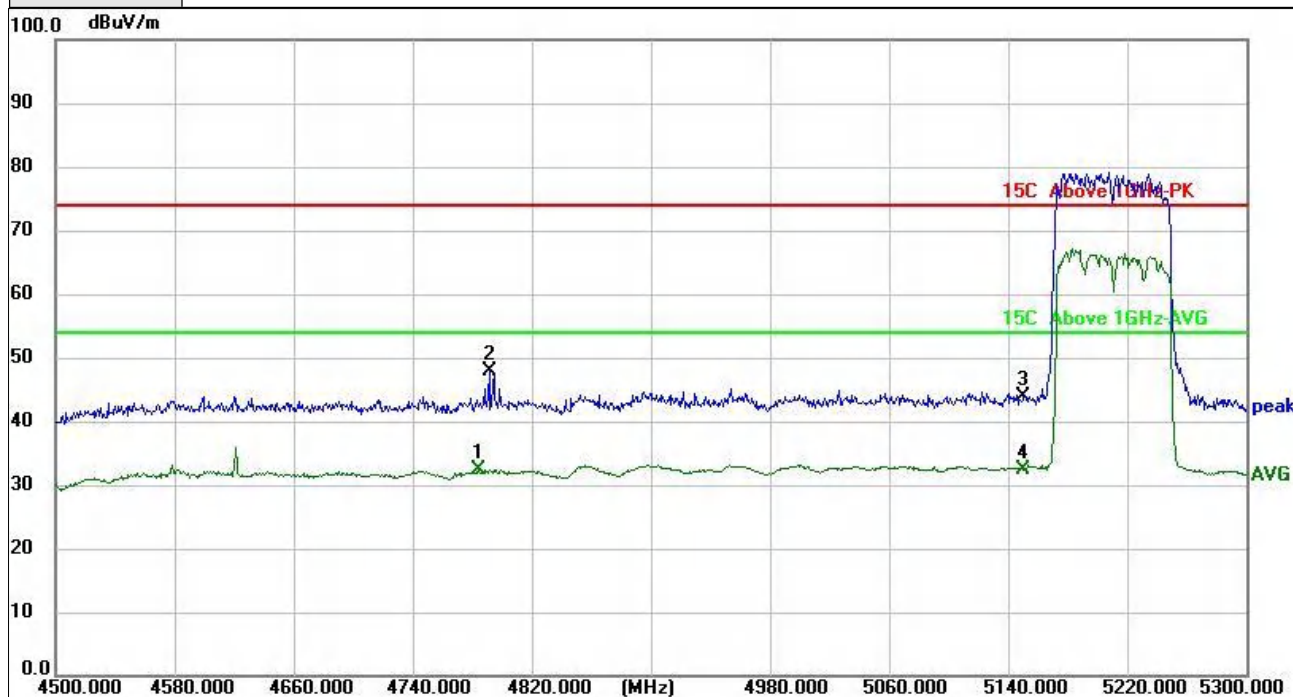
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	48.44	-4.46	43.98	74.00	-30.02	peak
2	5350.000	37.00	-4.46	32.54	54.00	-21.46	AVG
3	5391.840	54.88	-4.39	50.49	74.00	-23.51	peak
4 *	5392.800	41.95	-4.39	37.56	54.00	-16.44	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC40 46 Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	47.60	-4.46	43.14	74.00	-30.86	peak
2	5350.000	36.98	-4.46	32.52	54.00	-21.48	AVG
3	5395.360	56.46	-4.38	52.08	74.00	-21.92	peak
4 *	5397.600	43.22	-4.38	38.84	54.00	-15.16	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC80 42 Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4784.000	38.41	-5.99	32.42	54.00	-21.58	AVG
2	4791.200	53.72	-5.95	47.77	74.00	-26.23	peak
3	5150.000	48.63	-4.86	43.77	74.00	-30.23	peak
4 *	5150.000	37.34	-4.86	32.48	54.00	-21.52	AVG

EUT:	Dash Cam	Model Name.:	SIM vend
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120/60Hz
Test Mode:	WIFI-802.11AC80 42 Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4784.000	38.41	-5.99	32.42	54.00	-21.58	AVG
2	4791.200	53.72	-5.95	47.77	74.00	-26.23	peak
3	5150.000	48.63	-4.86	43.77	74.00	-30.23	peak
4 *	5150.000	37.34	-4.86	32.48	54.00	-21.52	AVG

10 CONDUCTED EMISSION TEST

10.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

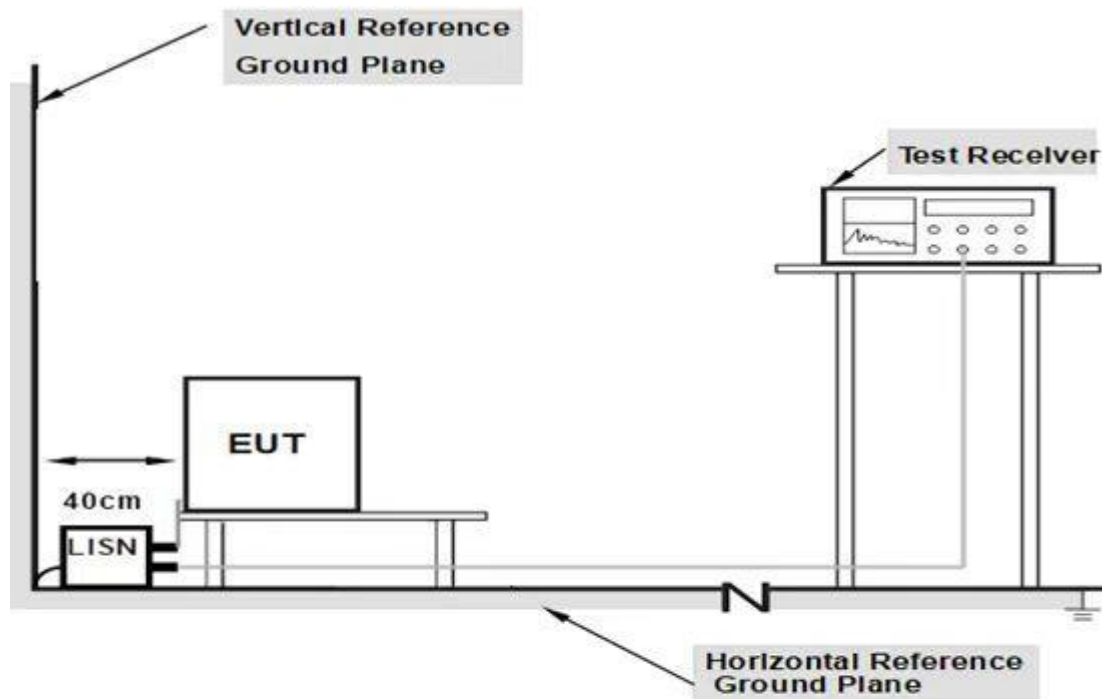
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

10.2 TEST PROCEDURE

- The EUT was 0 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

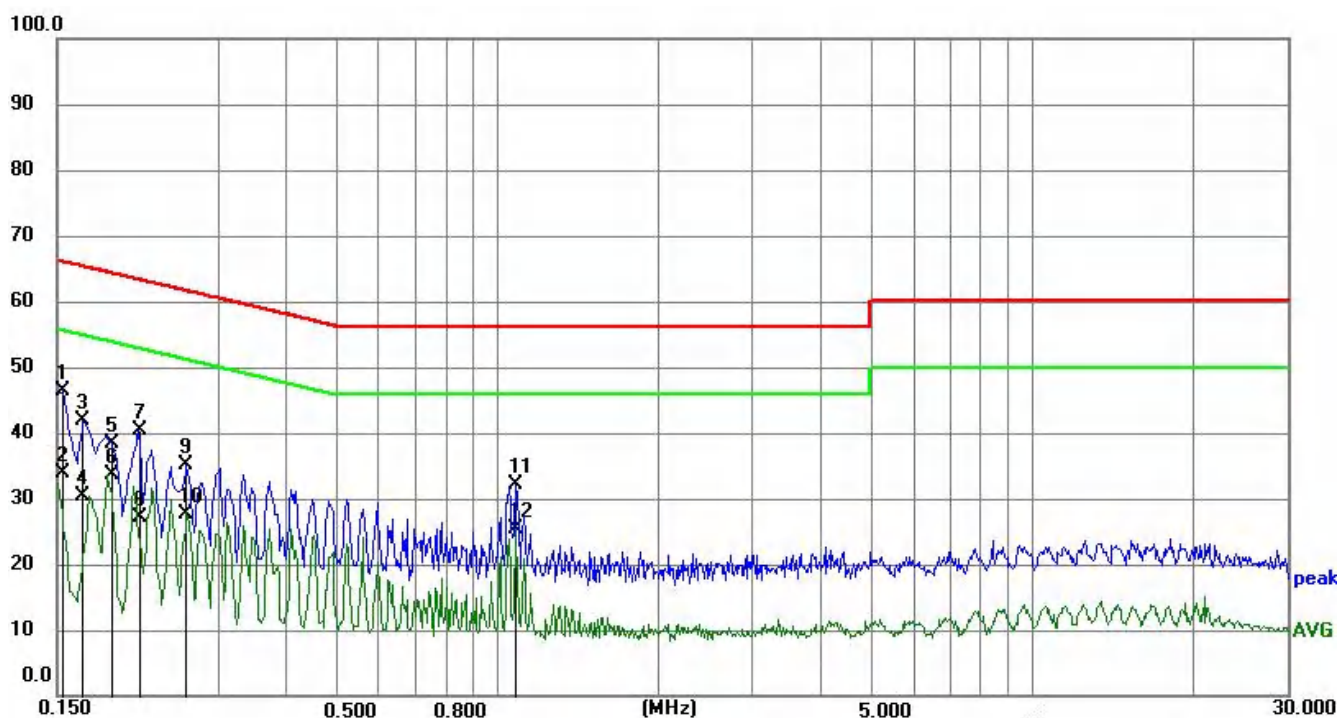
10.3 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

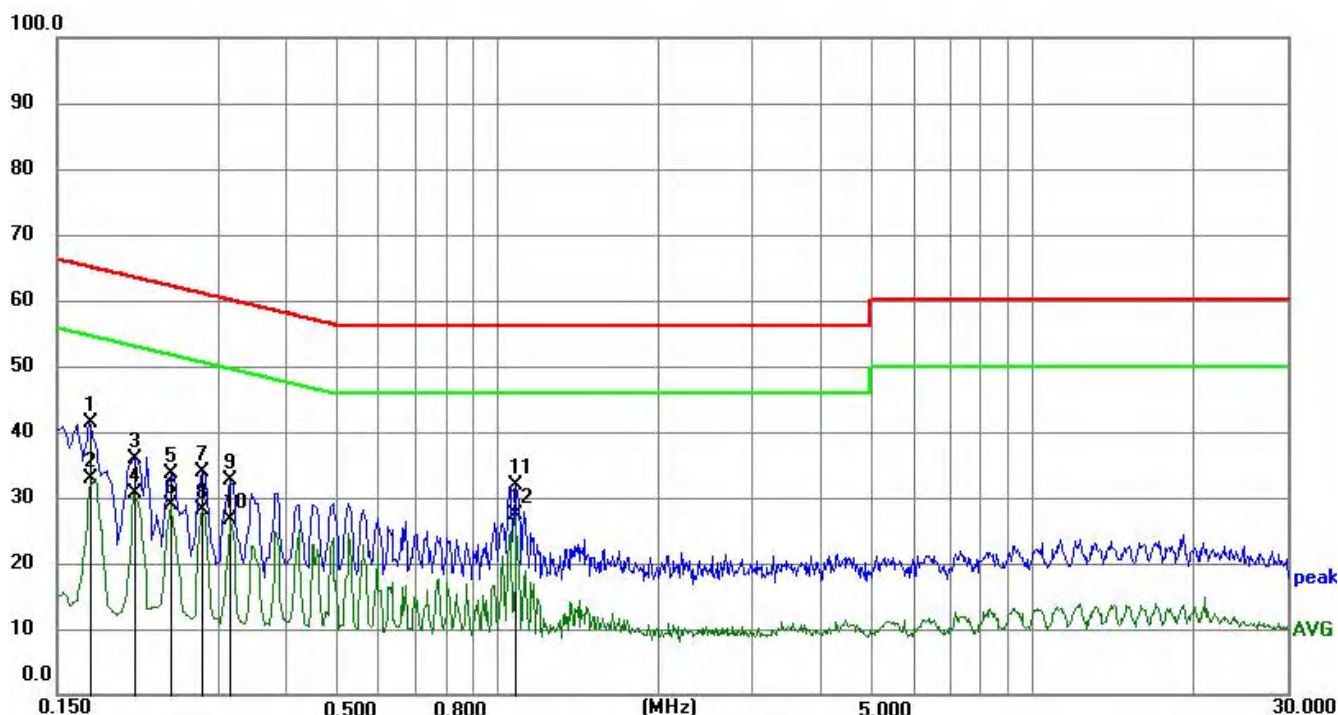
10.4 TEST RESULT

Temperature:	25℃	Relative Humidity:	50%
Test Mode:	802.11a(worst)	Test Voltage:	AC 120V/60Hz
Result:	L	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1544	36.14	10.13	46.27	65.76	19.49	QP
2	0.1544	23.77	10.13	33.90	55.76	21.86	AVG
3	0.1680	31.78	10.12	41.90	65.06	23.16	QP
4	0.1680	20.23	10.12	30.35	55.06	24.71	AVG
5	0.1893	28.19	10.09	38.28	64.07	25.79	QP
6	0.1893	23.59	10.09	33.68	54.07	20.39	AVG
7	0.2130	30.38	10.07	40.45	63.09	22.64	QP
8	0.2130	17.13	10.07	27.20	53.09	25.89	AVG
9	0.2625	25.20	10.04	35.24	61.35	26.11	QP
10	0.2625	17.71	10.04	27.75	51.35	23.60	AVG
11	1.0859	22.24	10.00	32.24	56.00	23.76	QP
12	1.0859	15.45	10.00	25.45	46.00	20.55	AVG

Temperature:	25℃	Relative Humidity:	50%
Test Mode:	802.11a(worst)	Test Voltage:	AC 120V/60Hz
Result:	N	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1725	31.29	10.07	41.36	64.84	23.48	QP
2	0.1725	22.87	10.07	32.94	54.84	21.90	AVG
3	0.2085	25.95	10.05	36.00	63.26	27.26	QP
4	0.2085	20.56	10.05	30.61	53.26	22.65	AVG
5	0.2445	23.68	10.05	33.73	61.94	28.21	QP
6	0.2445	18.81	10.05	28.86	51.94	23.08	AVG
7	0.2805	23.86	10.04	33.90	60.80	26.90	QP
8	0.2805	18.12	10.04	28.16	50.80	22.64	AVG
9	0.3165	22.56	10.03	32.59	59.80	27.21	QP
10	0.3165	16.54	10.03	26.57	49.80	23.23	AVG
11	1.0859	21.82	9.99	31.81	56.00	24.19	QP
12	1.0859	17.42	9.99	27.41	46.00	18.59	AVG

Remark:

1. All readings are Quasi-Peak and Average values

During the test, pre-scan all modes, only the worst case is recorded in the report. AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 RESULT

The antennas used for this product are PIFA antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.0 dBi.

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