



FCC Test Report

Report No: FCS202605074W02

Issued for

Applicant:	Shenzhen Lele Orange Technology Co., Ltd
Address:	Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China
Product Name:	Tablet PC
Brand Name:	YPorangecheng
Model Name:	SLV10
Series Model:	T16,B8,P96,T88,T66,B6,P99,P66,B9
FCC ID:	2BW9G-SLV10
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: Shenzhen Lele Orange Technology Co., Ltd
Address.....: Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China
Manufacture's Name: Shenzhen Lele Orange Technology Co., Ltd
Address.....: Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China

Product Description

Product Name: Tablet PC
Brand Name: YPorangecheng
Model Name.....: SLV10
Series Model: See the first page of the report
Test Standards: CFR 47 FCC Part15E section 15.407
Test Procedure.....: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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 : May. 12, 2026 ~ Aug. 13, 2026

Date of Issue.....: Aug. 13, 2026

Test Result: Pass

Tested by :

(orange OuYang)

Reviewed by :

(jayden)

Approved by :

(Jack Wang)



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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Aug. 13, 2026	FCS202605074W02	N/A	N/A

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard Section	Test Item	Judgment	Remark
FCC 15.407 (e)	6/26db Bandwidth and 99% Bandwidth	PASS	--
FCC 15.407 (a)	Maximum Conducted Output Power	PASS	--
FCC 15.407 (a)	Power Spectral Density	PASS	--
FCC 15.407 (b) FCC 15.209 FCC 15.205	Emissions in restricted frequency bands	PASS	
FCC 15.407 (b) FCC 15.209 FCC 15.205	Band Edge Compliance	PASS	
FCC 15.207	Power Line Conducted Emission	PASS	
FCC 15.203	Antenna requirement	PASS	--

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 expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.71 \text{ dB}$
2	Unwanted Emissions, conducted	$\pm 2.988 \text{ dB}$
3	Conducted Emission (9KHz-150KHz)	$\pm 4.13 \text{ dB}$
4	Conducted Emission (150KHz-30MHz)	$\pm 4.74 \text{ dB}$
5	All emissions, radiated (<1G) 9KHz-30MHz	$\pm 5.2 \text{ dB}$
6	All emissions, radiated (<1G) 30MHz-1000MHz	$\pm 5.2 \text{ dB}$
7	All emissions, radiated 1GHz -18GHz	$\pm 4.66 \text{ dB}$
8	All emissions, radiated 18GHz -40GHz	$\pm 4.31 \text{ dB}$
9	Occupied bandwidth	4(%)
10	PSD	$\pm 1.73 \text{ dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Tablet PC
Trade Name	YPorangecheng
Model Name	SLV10
Series Model	T16,B8,P96,T88,T66,B6,P99,P66,B9
Model Difference	The above product with same circuit, PCB layout, electrical parts, materials and wiring structures, Appearance shape, the materials of decorative accessories is same, the only difference is the model name and colour.
Channel List	Please refer to the Note 2.
Operation frequency	IEEE 802.11a/n/ac(HT20)/n(HT40)/ac(HT40)/ac(HT80): U-NII-1 5150MHz ~5250MHZ U-NII-3 5745MHZ-5825 MHz
Number of channel	5150MHz ~5250MHZ 5725MHZ-5825 MHz
Antenna Type	PIFA Antenna
Antenna Gain (dBi)	2.4 dBi
Modulation:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM
Adapter	Input:,AC 110-240V MAX:180 mA Output: DC 5.0V 2A
Battery	DC 3.7V ,4000mAH
Hardware version number	V1.0
Software version number	V1.0
Sample type	portable device
Connecting I/O Port(s)	Please refer to the User's Manual

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		

U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

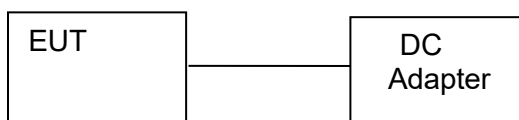
Table for Filed Antenna

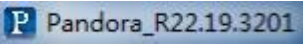
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PIFA antenna	N/A	2.4 dBi	5G Antenna

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: 

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	40	5200
48	5240		

U-NII-3

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n/ac(HT40)

V-NII-1

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

U-NII-3

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795



For 802.11ac(HT80)

U-NII-1

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

U-NII-3

channel	Frequency(MHz)	channel	Frequency(MHz)
155	5775		

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
1	USB receiver	N/A	N/A	N/A	N/A
1	Adapter	XIAOMI	MDY-11-EB	N/A	this adapter is for testing only in repor
2	Cable	A-1	0.5m	N/A	

Support units

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

Note:

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

2.4 EQUIPMENTS LIST Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.08.25	2026.08.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESCI	FCS-E020	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
LISN	ETS	3810/2NM	FCS-E009	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24
Cable	A-1	N/A	N/A	2025.08.25	2026.08.24

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2025.08.25	2026.08.24
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Power Sensor	Agilent	UX2021XA	FCS-E021	2025.08.25	2026.08.24

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

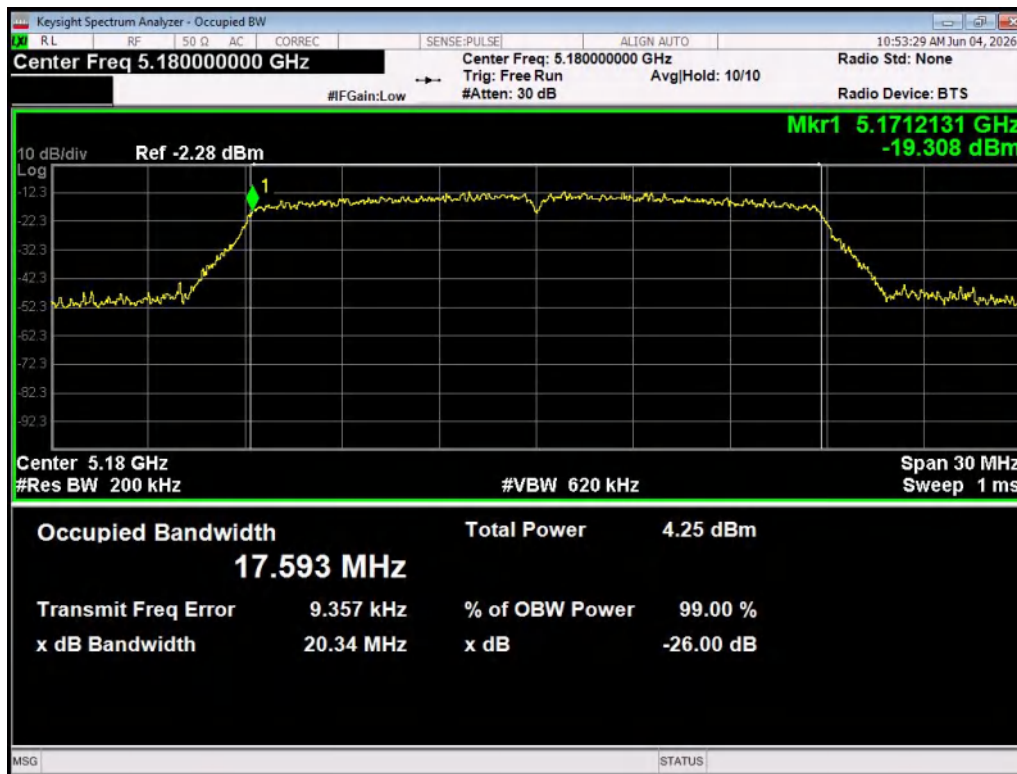
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	20.34	20.13	20.26	17.593	17.566	17.565
	802.11n(HT20)	20.3	20.08	20.23	17.601	17.552	17.561
	802.11n(HT40)	40.39	/	40.11	36.040	/	35.991
	802.11ac(HT20)	20.28	20.09	17.541	17.595	17.560	20.28
	802.11ac(HT40)	40.58	/	40.45	36.049	/	36.014
	802.11ac(HT80)	80.96	/	/	75.406	/	/

Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	17.610	17.640	17.610
	802.11n(HT20)	17.670	17.640	17.640
	802.11n(HT40)	35.460	/	36.180
	802.11ac(HT20)	17.610	17.640	17.610
	802.11ac(HT40)	36.360	/	36.360
	802.11ac(HT80)	76.200	/	/

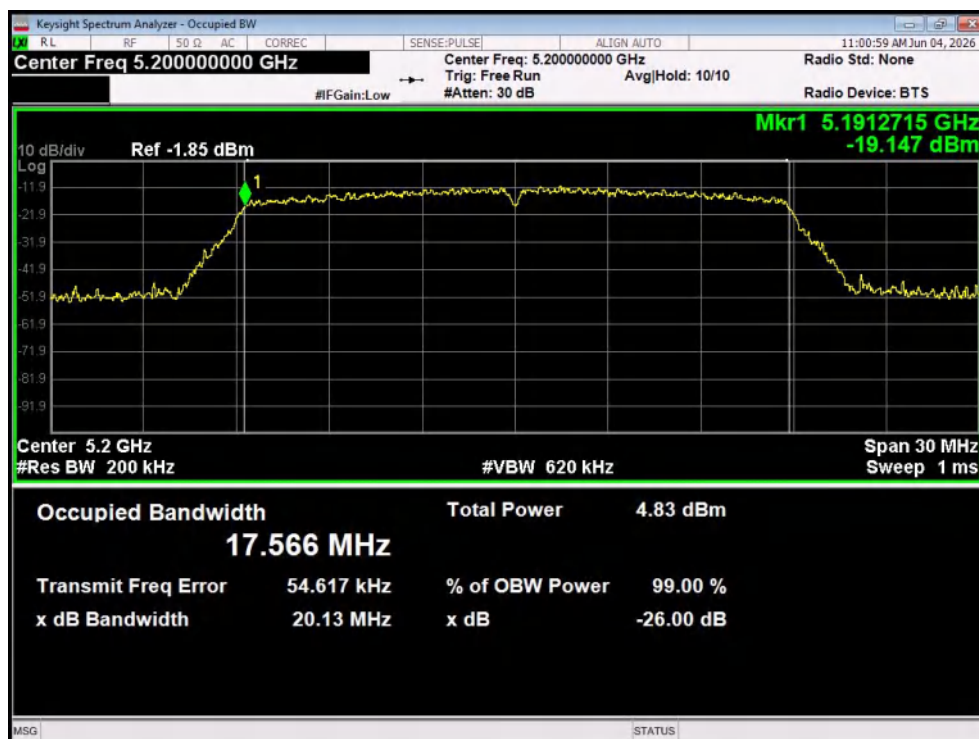
3.3 Original Test Data

-26dB/OBW Bandwidth

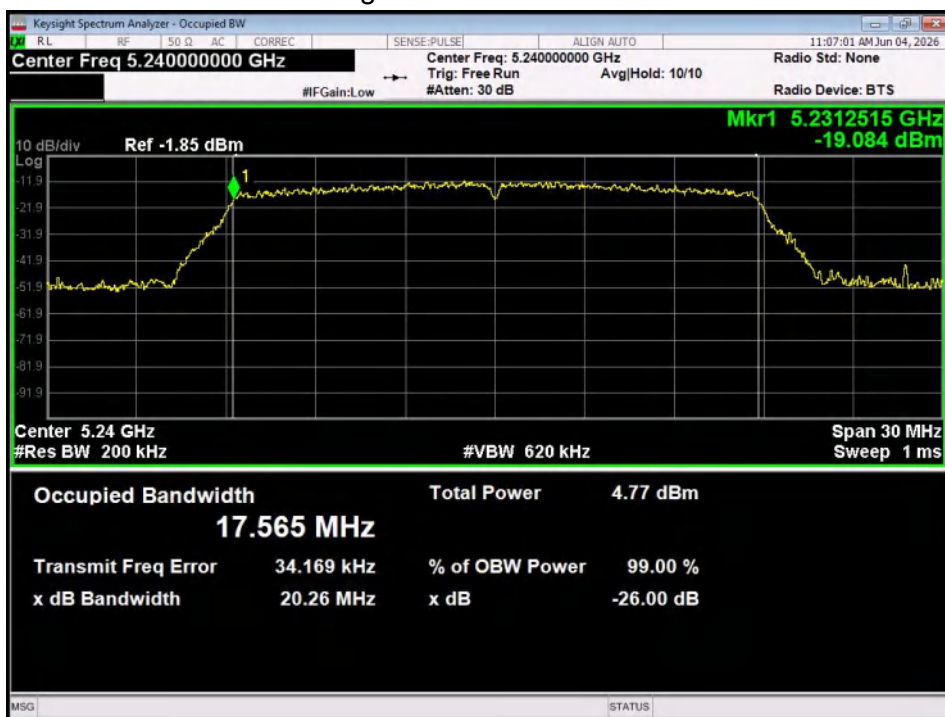
U-NII-1 11a Low CH 5180MHZ



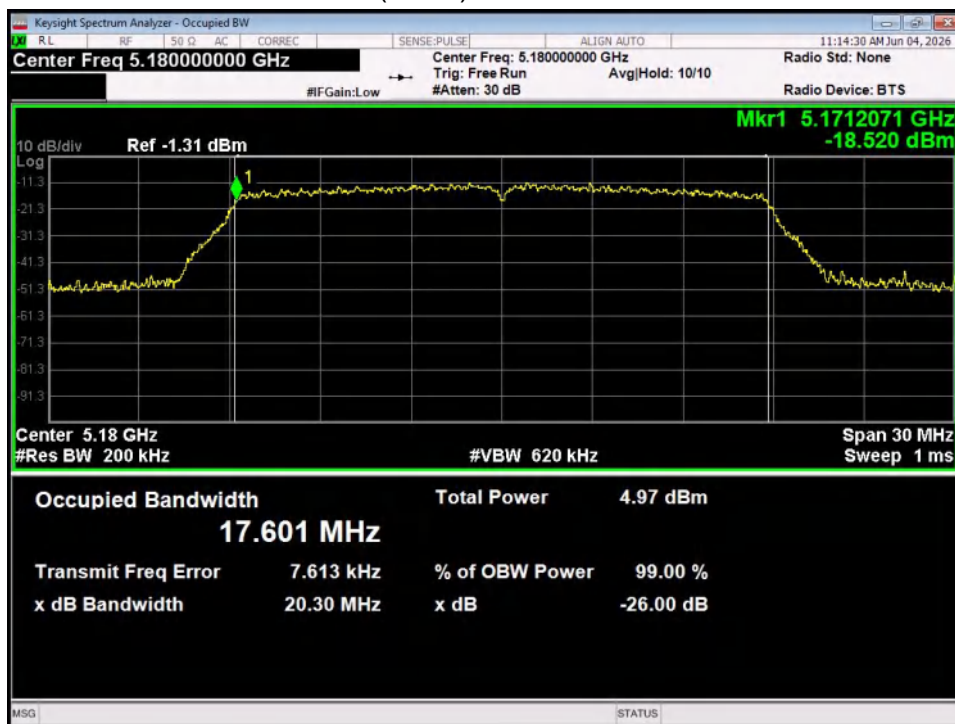
U-NII-1 11a Middle CH 5200MHZ



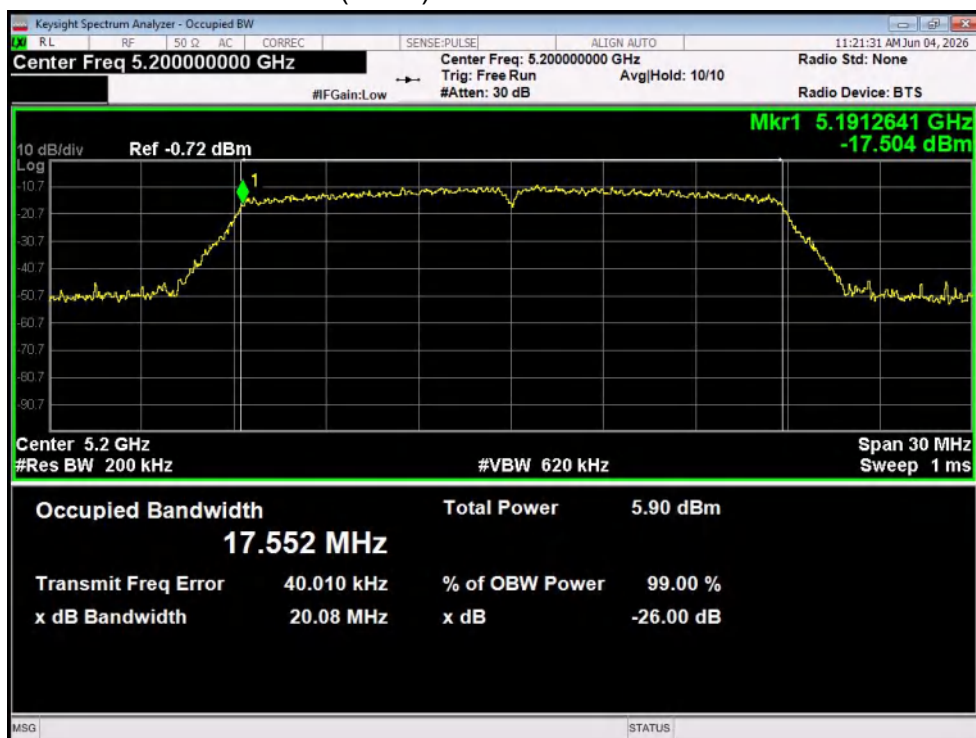
U-NII-1 11a High CH 5240MHZ



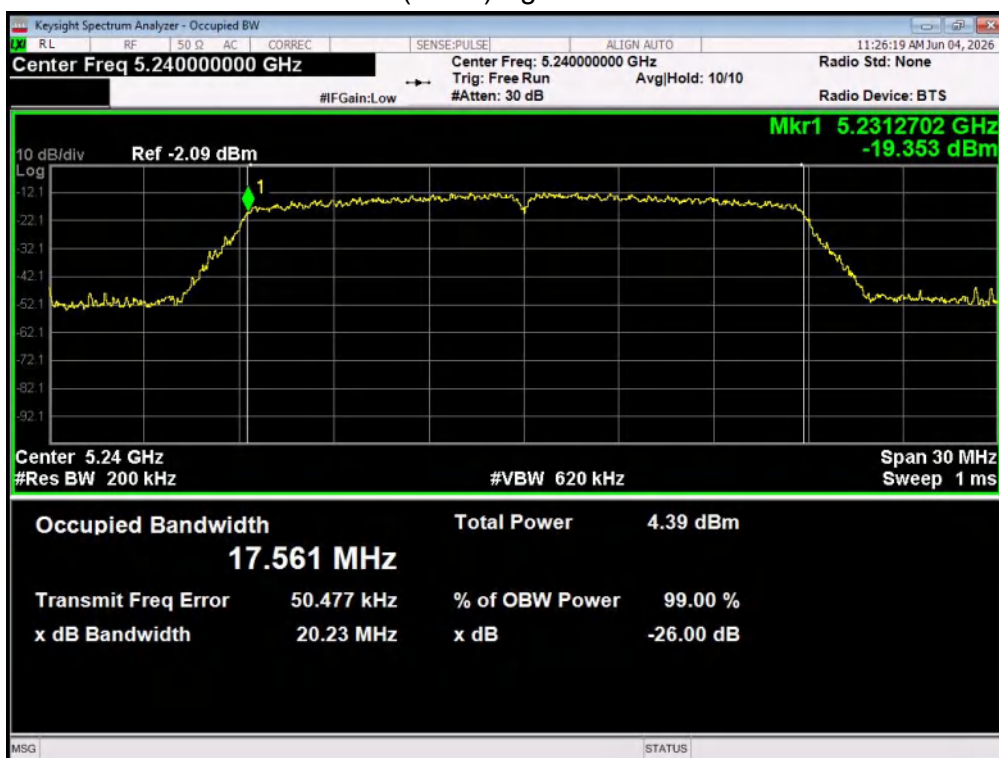
U-NII-1 11n(HT20) Low CH 5180MHZ



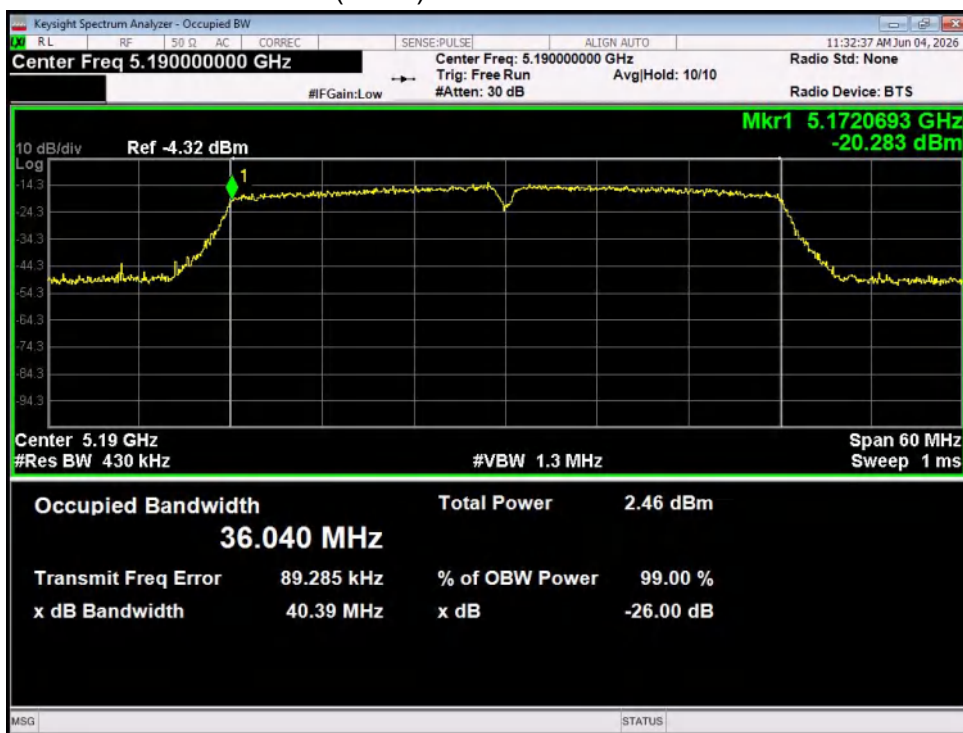
U-NII-1 11n(HT20) Middle CH 5200MHZ



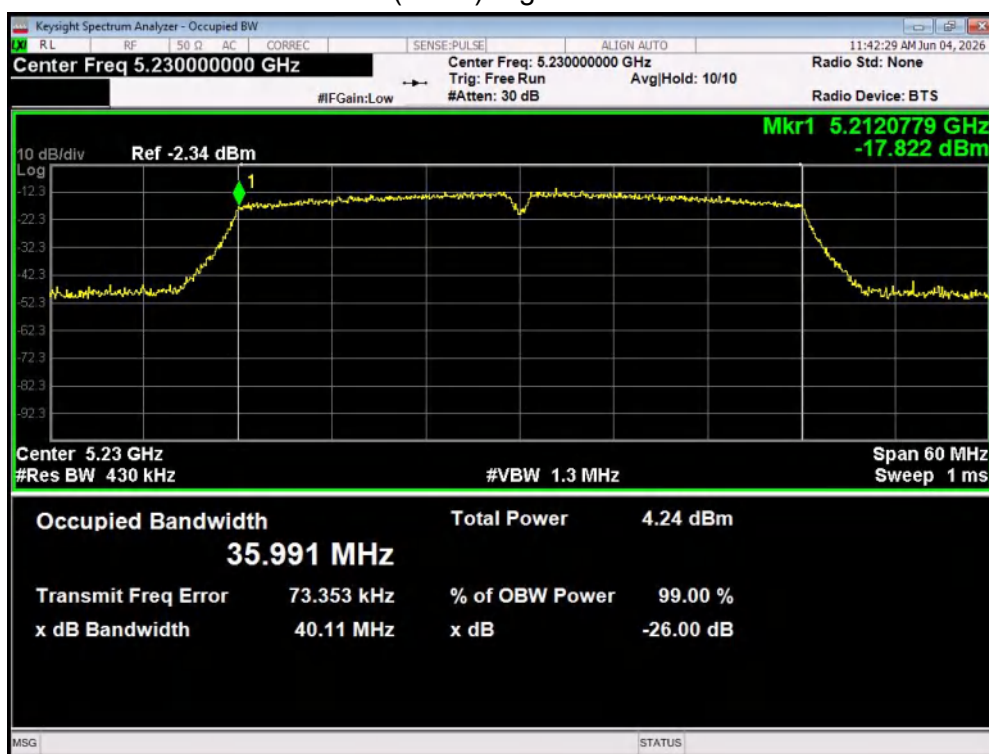
U-NII-1 11n(HT20)High CH 5240MHZ



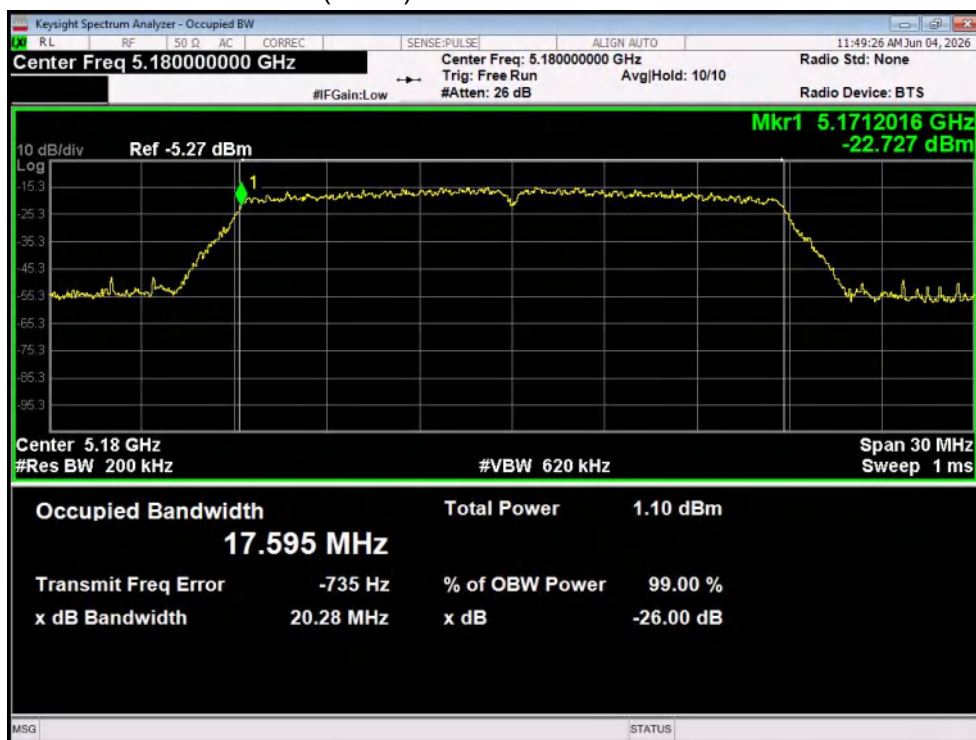
U-NII-1 11n(HT40) Low CH 5190MHz



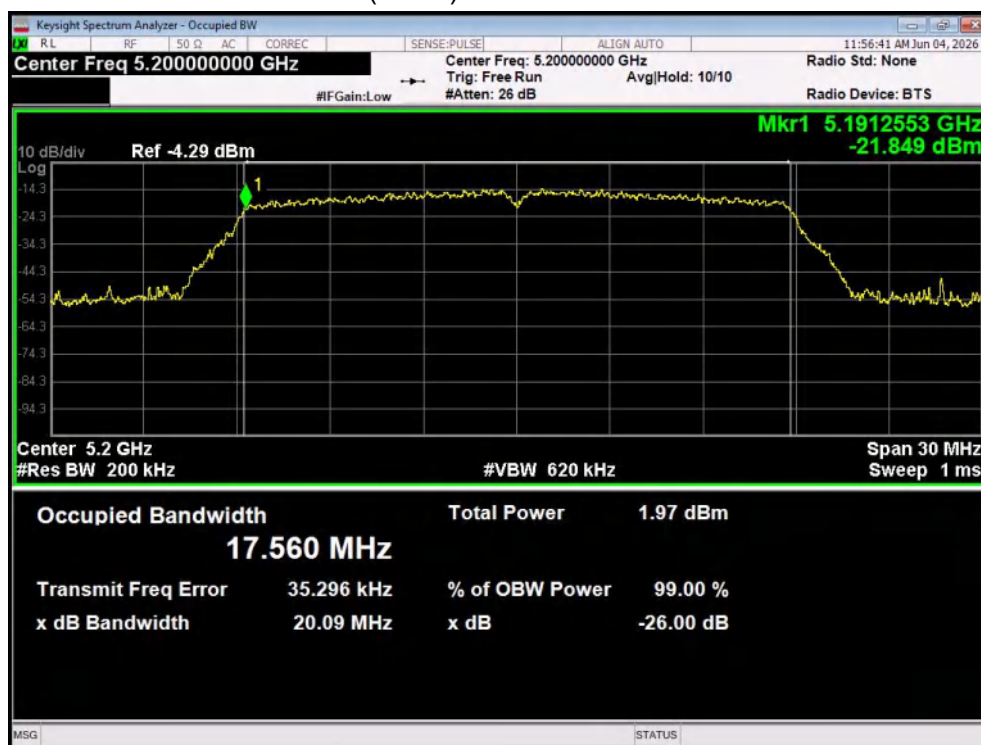
U-NII-1 11n(HT40) High CH 5230MHz



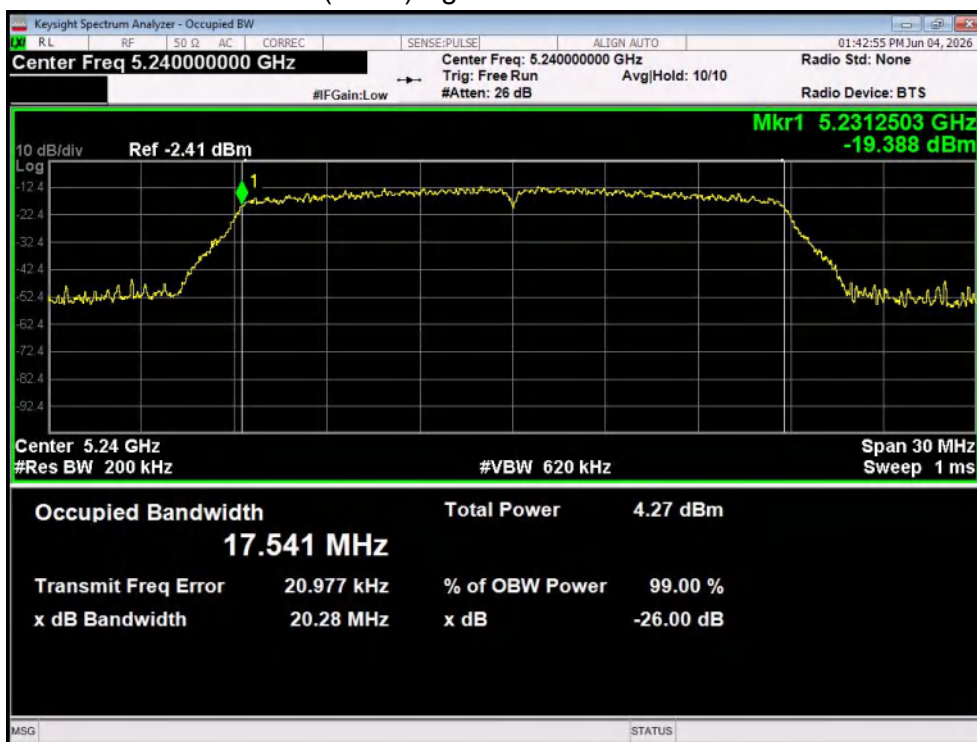
U-NII-1 ac(HT20) Low CH 5180MHZ



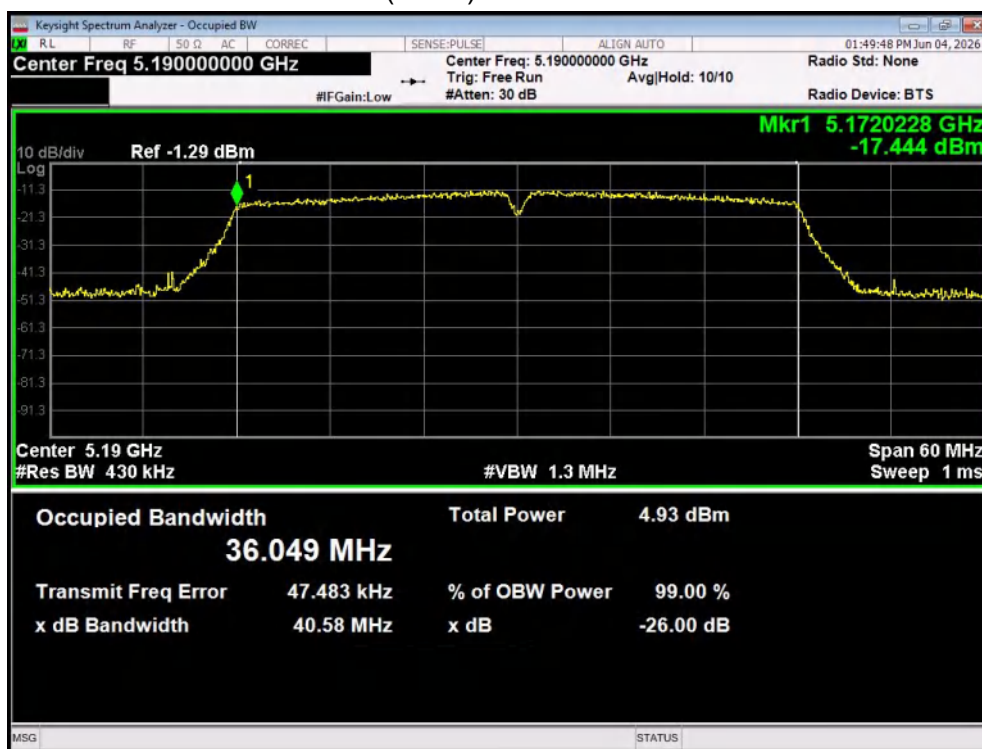
U-NII-1 ac(HT20) Middle CH 5200MHZ



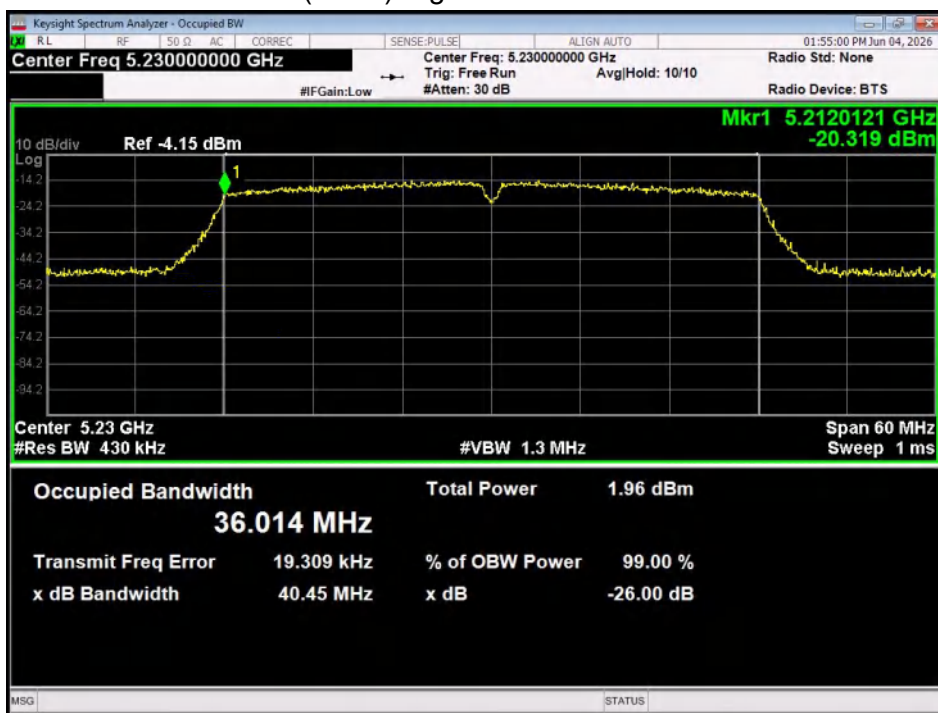
U-NII-1 ac(HT20)High CH 5240MHZ



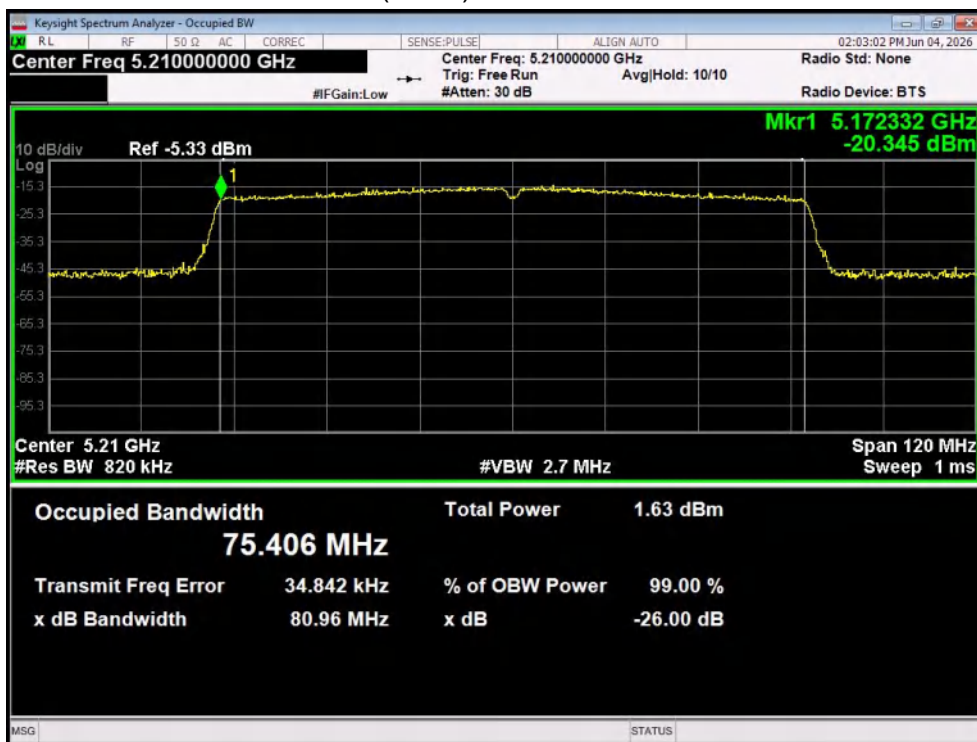
U-NII-1 ac(HT40) Low CH 5190MHZ



U-NII-1 ac(HT40) High CH 5230MHz

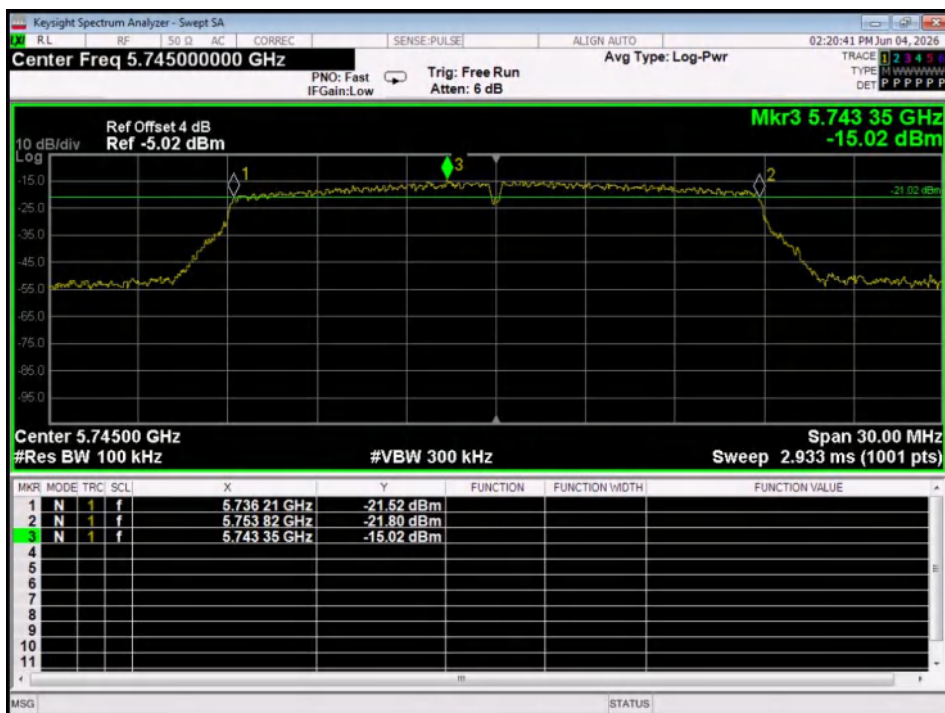


U-NII-1 ac(HT80) Low CH 5210MHz

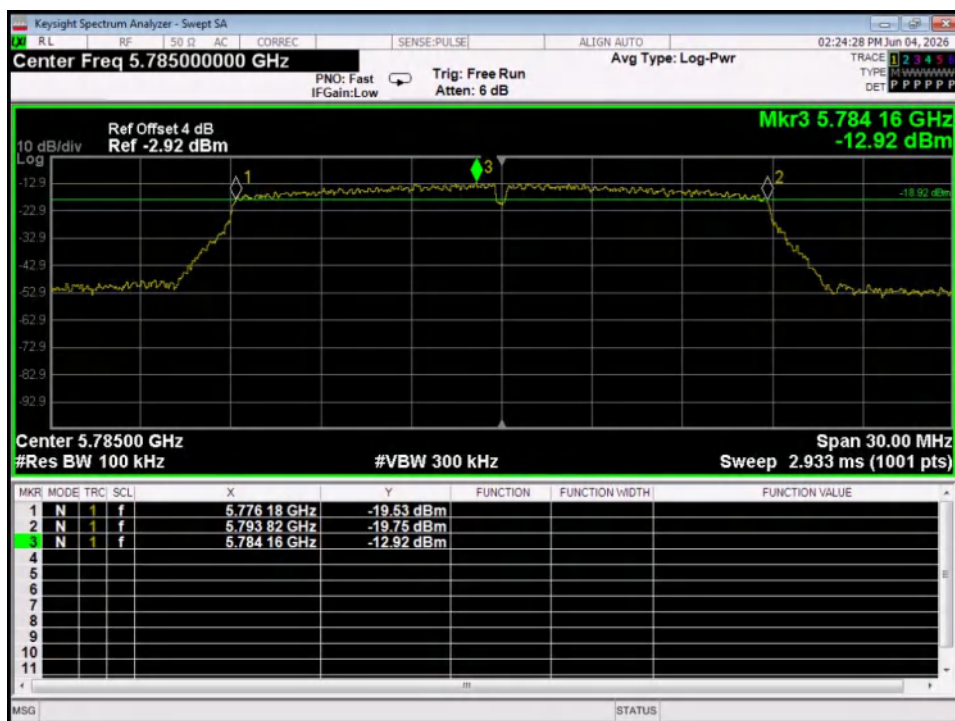


-6dB Bandwidth

U-NII-3 11a Low CH 5745MHZ



U-NII-3 11a Middle CH 5785MHZ



U-NII-3 11a High CH 5825MHZ



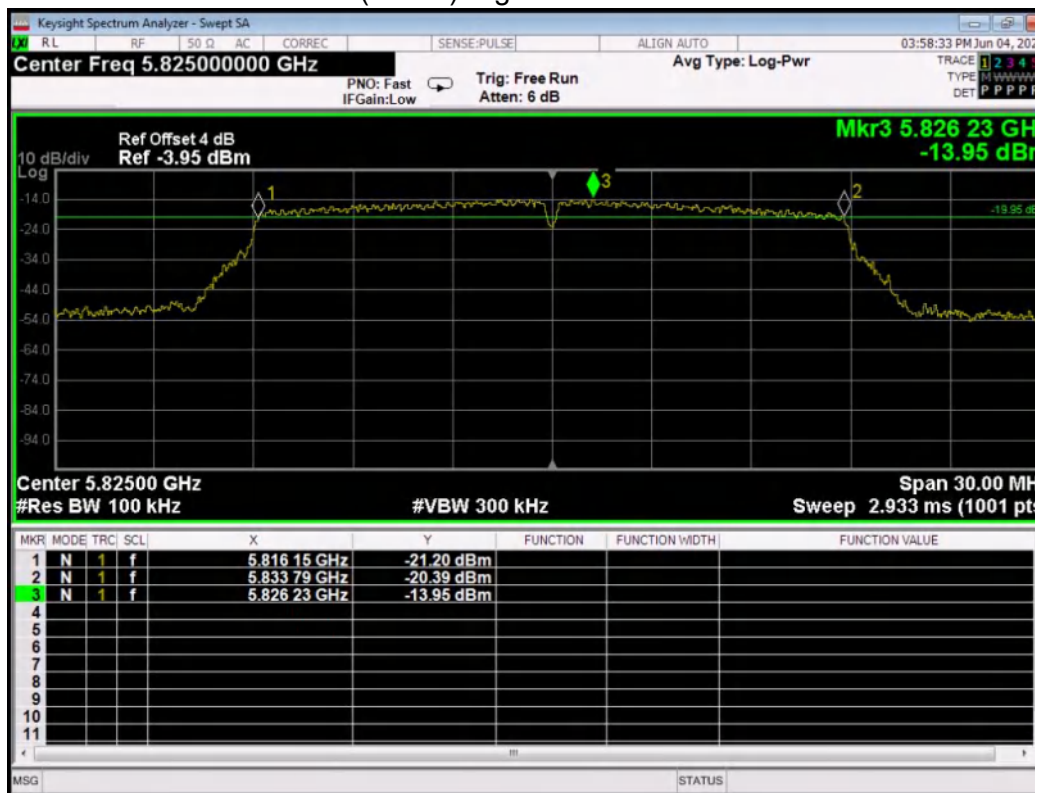
U-NII-3 11n(HT 20) Low CH 5745MHZ



U-NII-3 11n(HT 20) Middle CH 5785MHZ



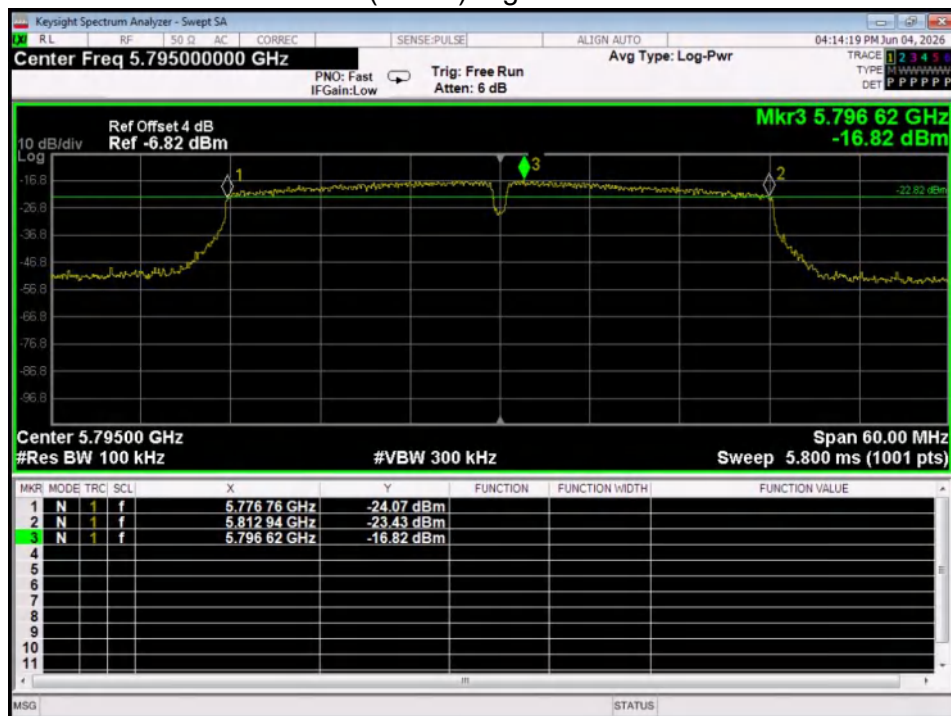
U-NII-3 11n(HT 20) High CH 5825MHZ



U-NII-3 11n(HT 40) Low CH 5755MHZ



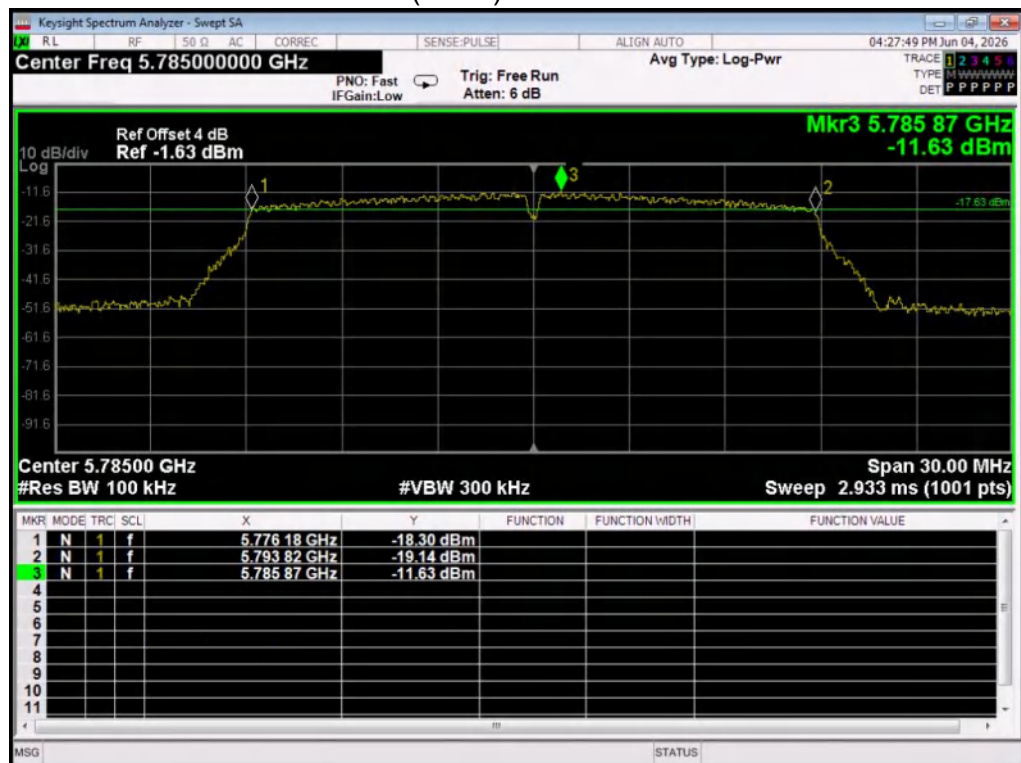
U-NII-3 11n(HT 40) High CH 5795MHZ



U-NII-3 ac(HT20) Low CH 5745MHZ



U-NII-3 ac(HT20) Middle CH 5785MHZ



U-NII-3 ac(HT20) High CH 5825MHZ



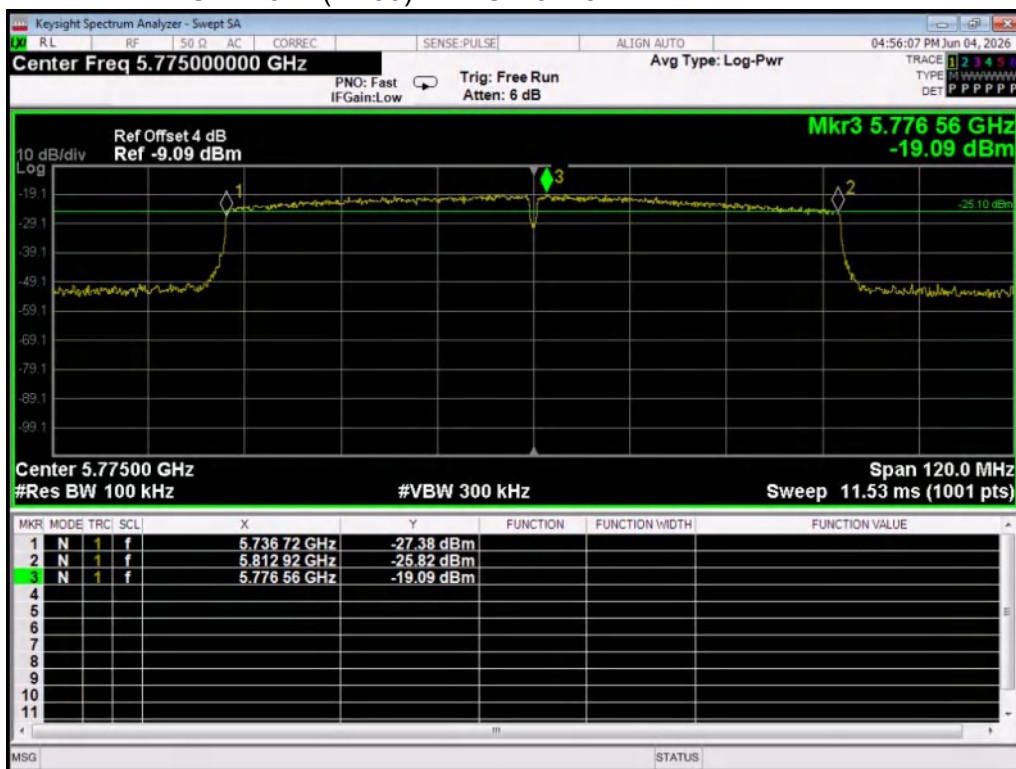
U-NII-3 ac(HT40) Low CH 5755MHZ



U-NII-3 ac(HT40) High CH 5795MHZ



U-NII-3 ac(HT80) Low CH 5775MHZ



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	conduction Output Power(dBm)			Limit(dBm)
		Low	Middle	High	
U-NII-1	802.11a	6.02	7.08	6.55	24
	802.11 n(HT20)	6.81	7.67	6.08	24
	802.11 n(HT40)	4.19	/	6.02	24
	802.11ac(HT20)	2.78	3.77	5.94	24
	802.11ac(HT40)	6.70	/	3.65	24
	802.11ac(HT80)	4.21	/	/	24
U-NII-3	802.11a	5.61	5.89	8.37	30
	802.11 n(HT20)	7.37	7.90	6.83	30
	802.11 n(HT40)	7.37	/	7.19	30
	802.11ac(HT20)	7.54	7.31	6.89	30
	802.11ac(HT40)	6.59	/	6.79	30
	802.11ac(HT80)	7.15	/	/	30

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. The test method was referred to the subclause F.5 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01, 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	Limit(dBm/MHz)
U-NII-1	802.11a	-6.847	-6.152	-5.679	11
	802.11 n(HT20)	-7.272	-6.806	-6.719	11
	802.11 n(HT40)	-11.04	/	-9.464	11
	802.11ac(HT20)	-10.635	-9.321	-7.722	11
	802.11ac(HT40)	-8.449	/	-12.008	11
	802.11ac(HT80)	-14.367	/	/	11

Band	Operation mode	Power Spectral Density(dBm/510KHz)			
		Low	Middle	High	Limit(dBm/500KHz)
U-NII-3	802.11a	-9.291	-8.680	-5.551	30
	802.11 n(HT20)	-6.942	-6.517	-7.578	30
	802.11 n(HT40)	-9.895	/	-9.762	30
	802.11ac(HT20)	-4.572	-5.519	-5.720	30
	802.11ac(HT40)	-11.016	/	-9.424	30
	802.11ac(HT80)	-12.130	/	/	30

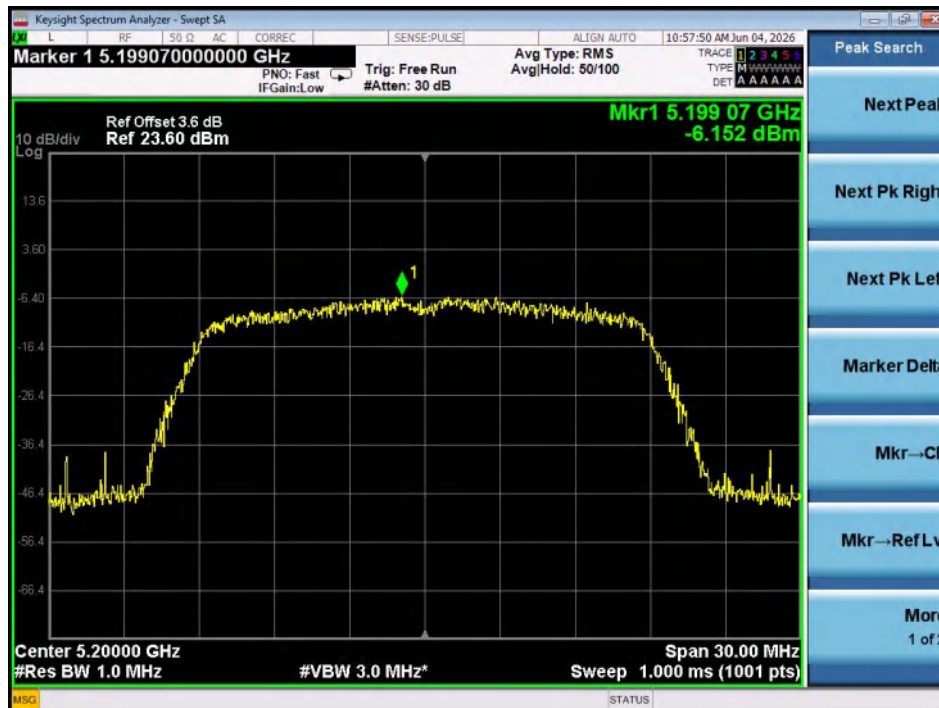
RB factor= $10 \cdot \log(510/500\text{kHz})=0.086, \text{m}, \text{mm}, \text{n}$ Results are already included with the RB factor.

5.5 original test data

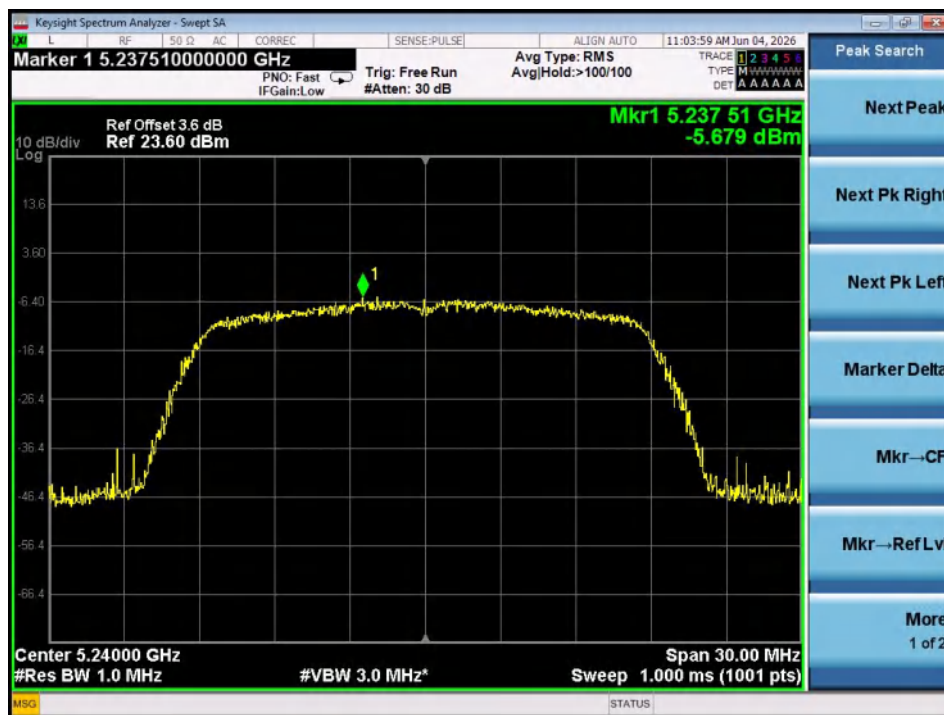
U-NII-1 802.11a Low CH



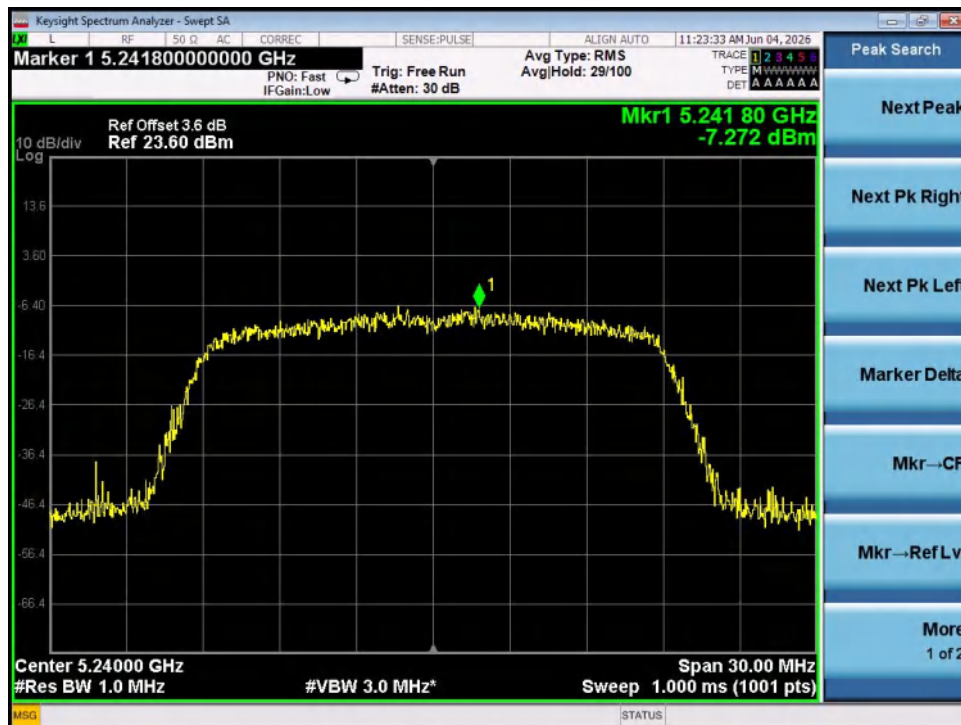
U-NII-1 802.11a Middle CH



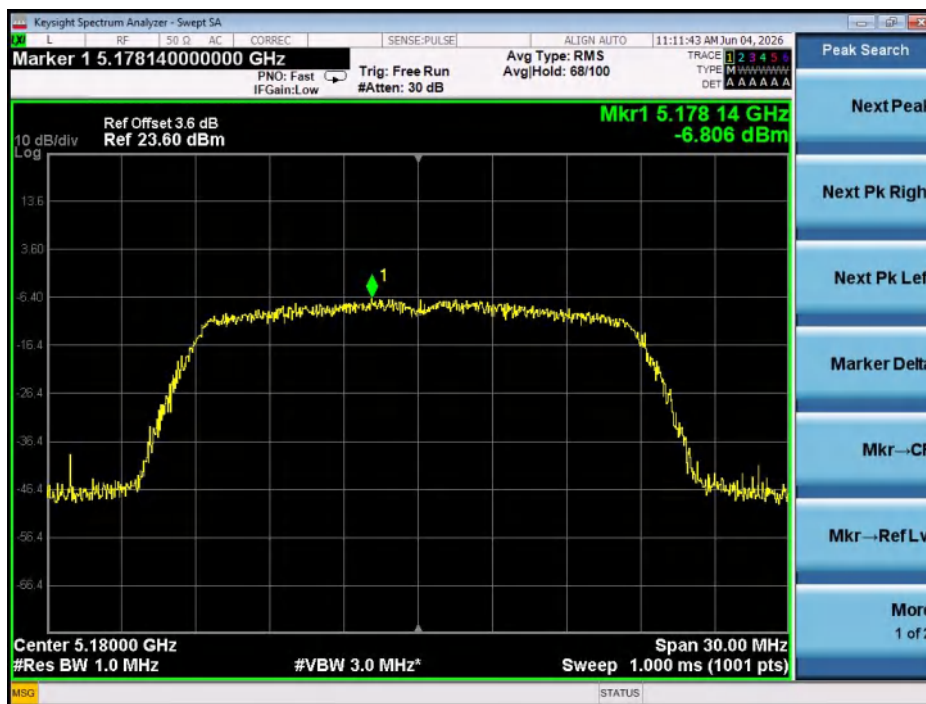
U-NII-1 802.11a High CH



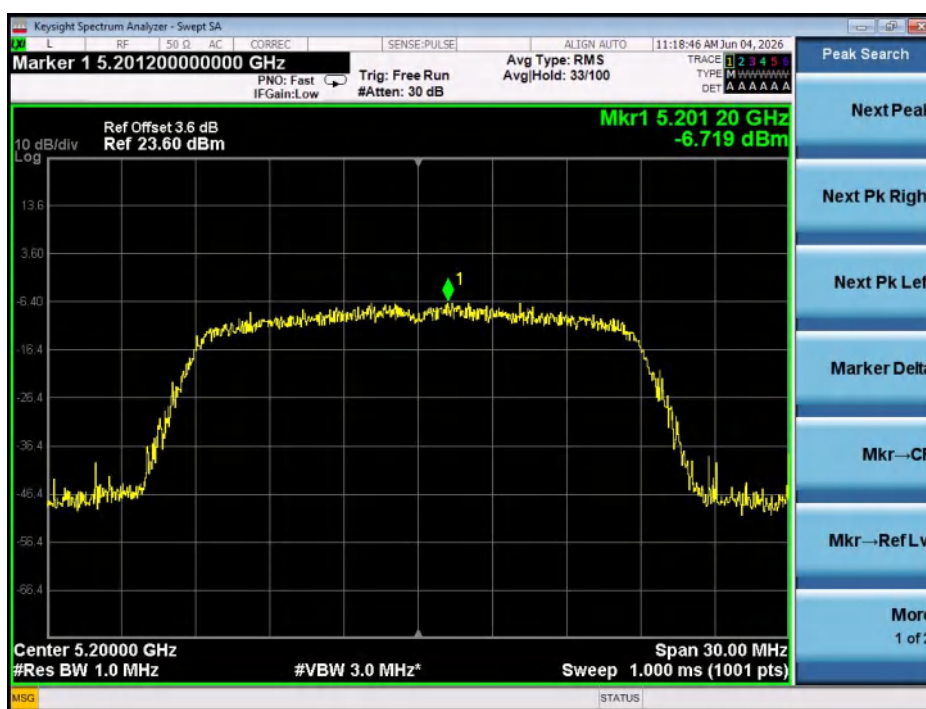
U-NII-1 802.11n(HT20) Low CH



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



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



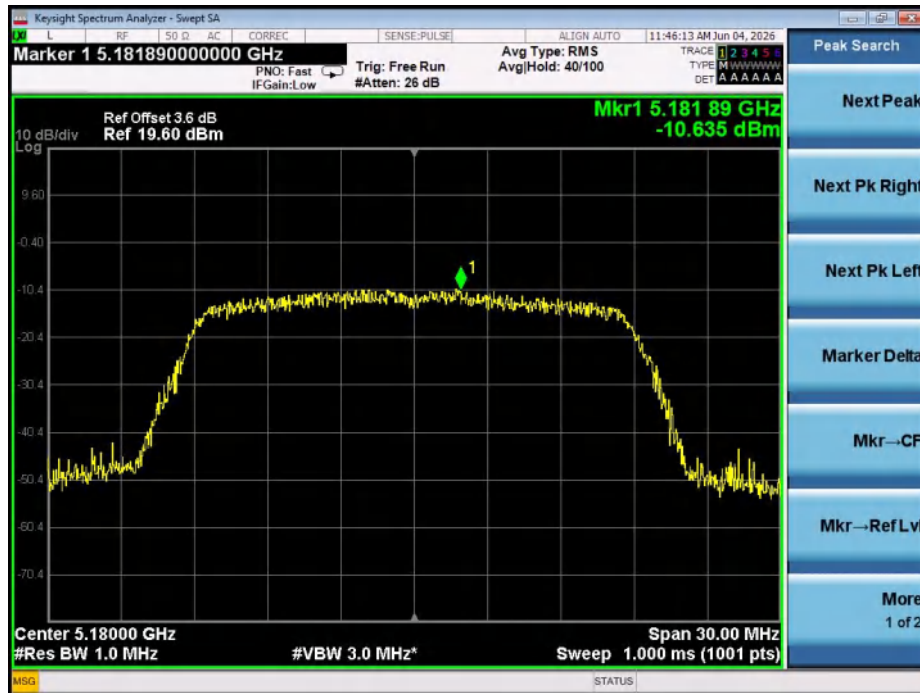
U-NII-1 802.11n(HT40) Low CH



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



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



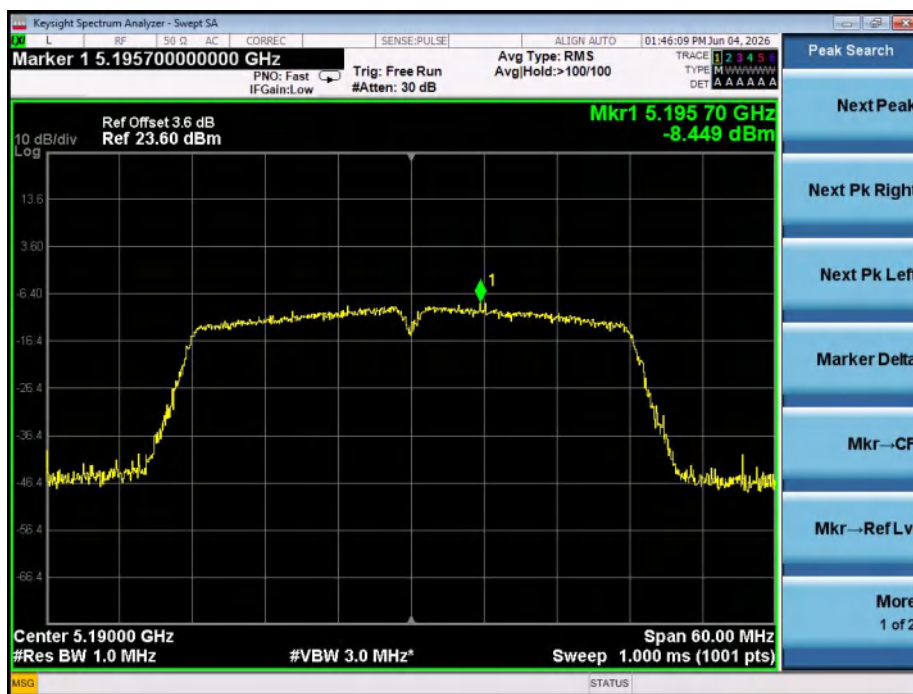
U-NII-1 802.11ac(HT20) Middle CH



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



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



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



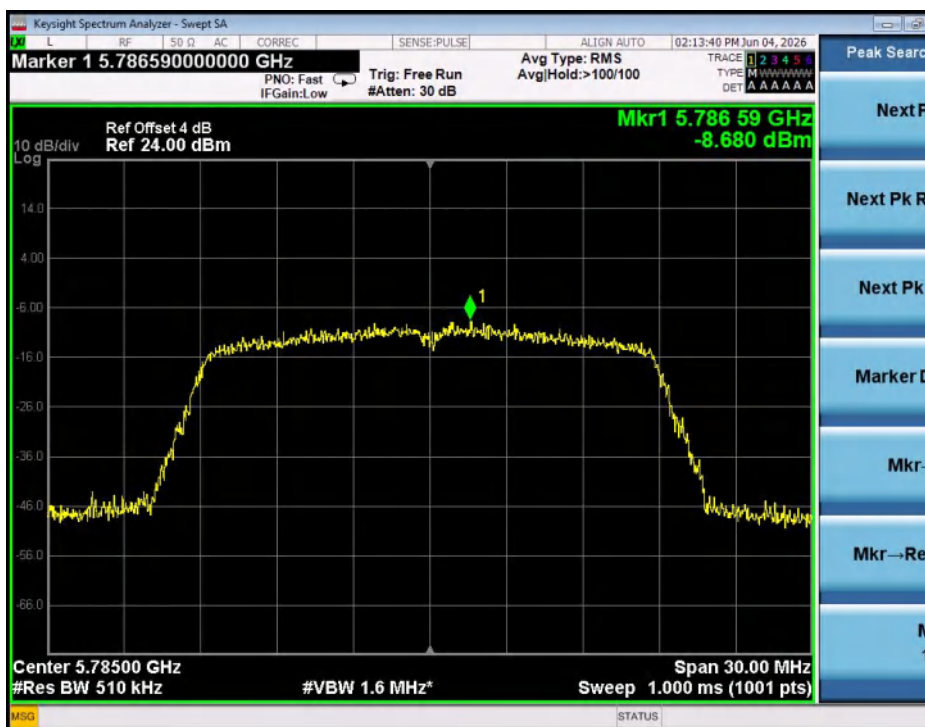
U-NII-1 802.11ac(HT80) Low CH



U-NII-3 802.11a Low CH



U-NII-3 802.11a Middle CH



U-NII-3 802.11a High CH



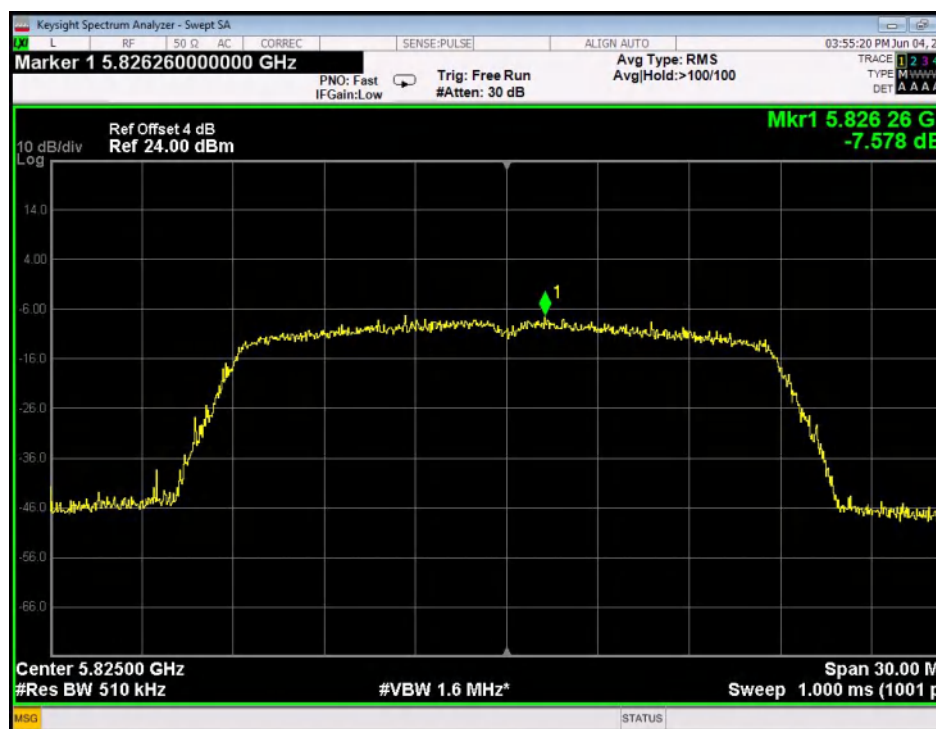
U-NII-3 802.11n(HT20) Low CH



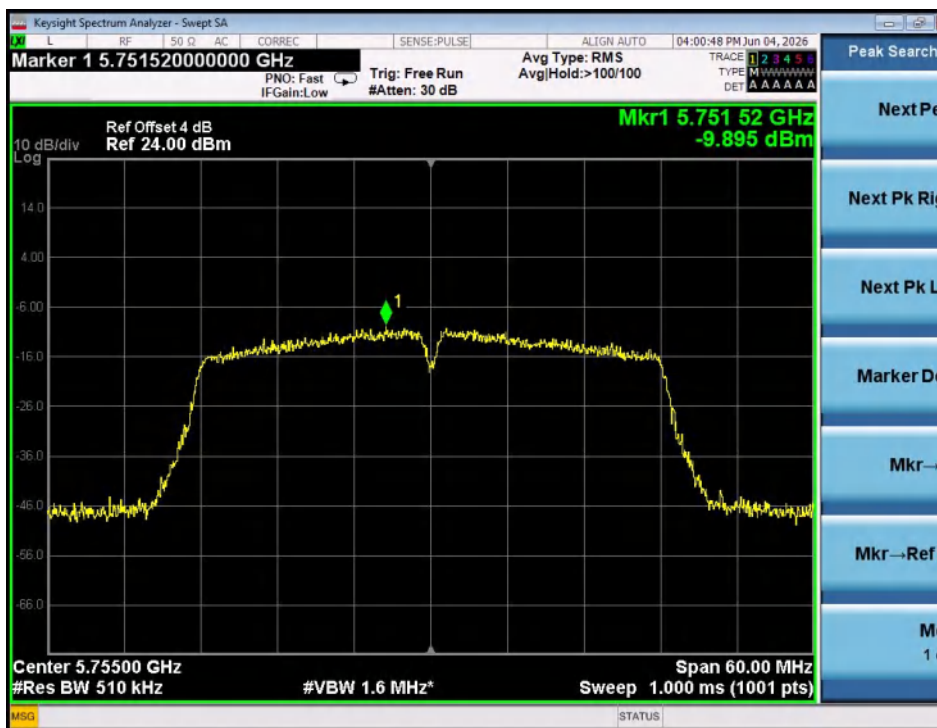
U-NII-3 802.11n(HT20) Middle CH



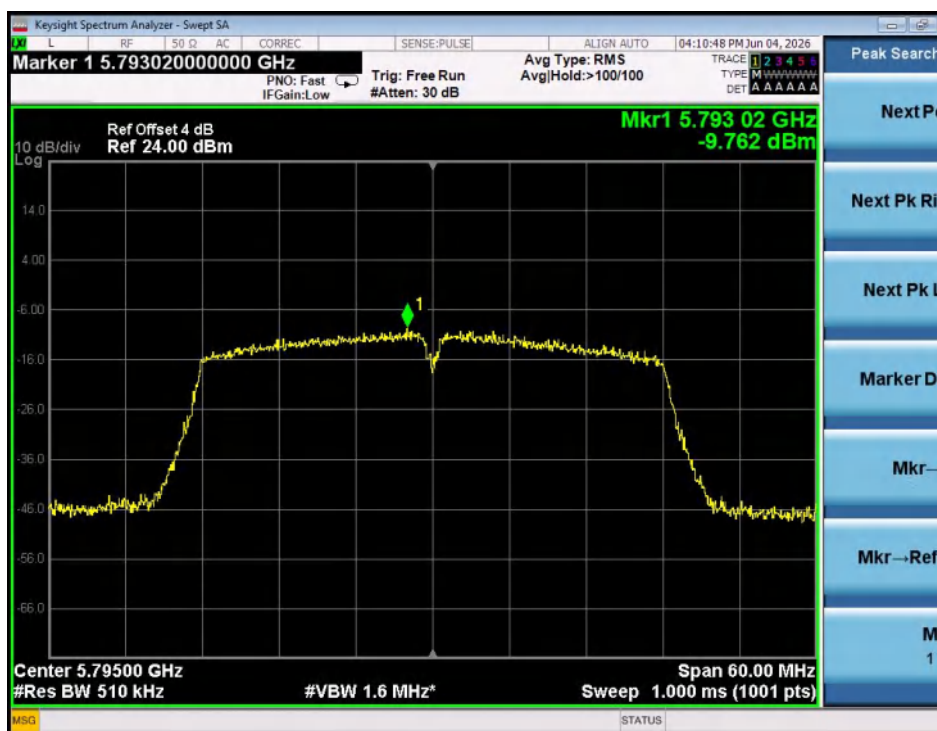
U-NII-3 802.11n(HT20) High CH



U-NII-3 802.11n(HT40) Low CH



U-NII-3 802.11n(HT40) High CH



U-NII-3 802.11ac(HT20) Low CH



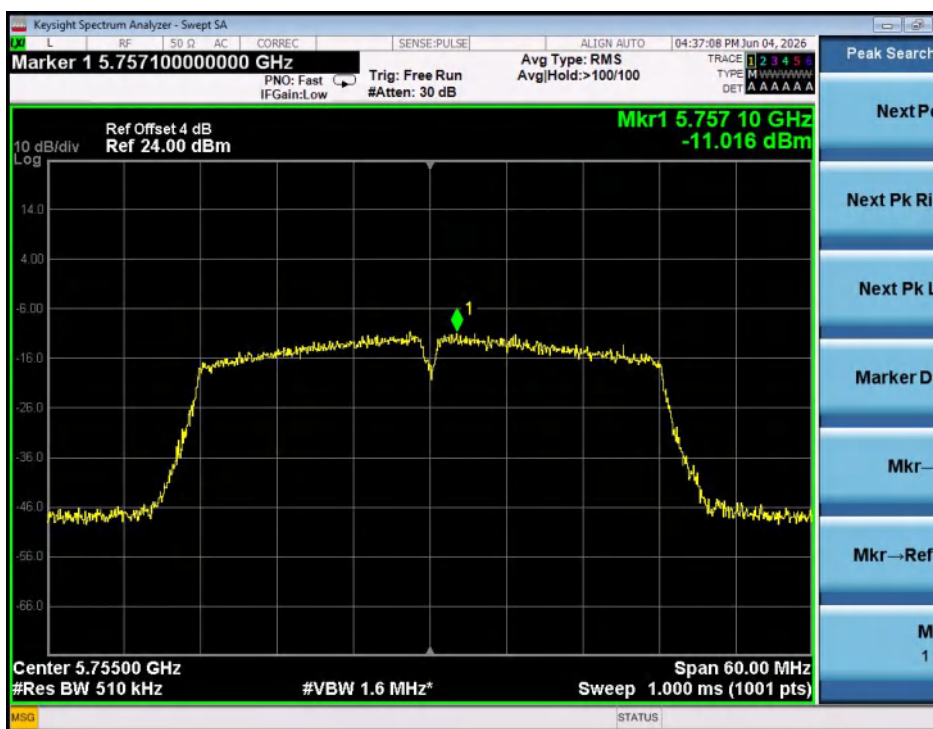
U-NII-3 802.11ac(HT20) Middle CH



U-NII-3 802.11ac(HT20) High CH



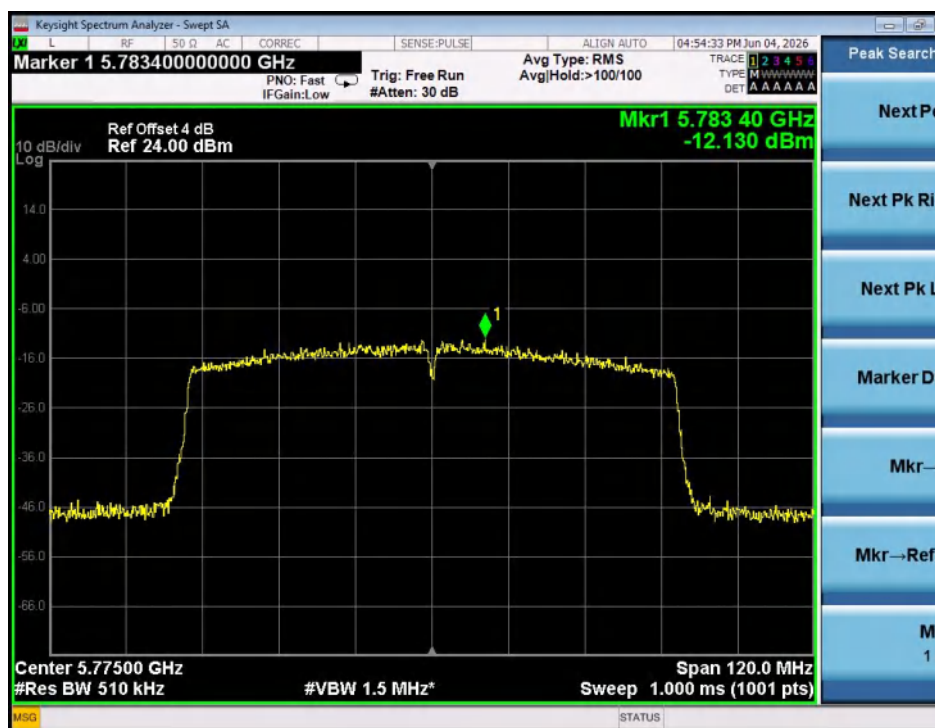
U-NII-3 802.11ac(HT40) Low CH



U-NII-3 802.11ac(HT40) High CH



U-NII-3 802.11ac(HT80) Low CH



6. FREQUENCY STABILITY MEASUREMENT

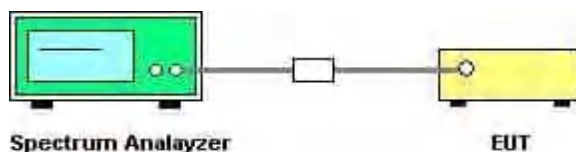
6.1 LIMIT

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		20000.00	3.86	
30		13000.00	2.51	
20		15000.00	2.90	
10		17000.00	3.28	
0		17000.00	3.28	
-10		18000.00	3.47	
-15		20000.00	3.86	
-30		/	/	
20	102V	21000.00	4.05	
20	138V	20000.00	3.86	

U-NII-3 Test Frequency:5745MHz				
Temperature (°C)	Power Supply (DC)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
50	120V	/		within the band of operation
45		16700.00	2.91	
30		21000.00	3.66	
20		16400.00	2.85	
10		22000.00	3.83	
0		22000.00	3.83	
-10		16400.00	2.85	
-15		21000.00	3.66	
-30		/		
20	102V	21000.00	3.66	
20	138V	16700.00	2.91	

7. Duty Cycle

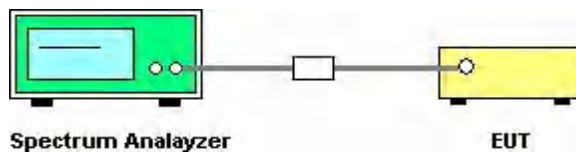
7.1 TEST REQUIREMENT

47 CFR Part 15C 15.407 and 789033 D02 General UNII Test
Procedures New Rules v02r01(December 14, 2017), Section (B)
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to
C63.10a-2024

7.2 TEST PROCEDURE

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

7.3 TEST SETUP



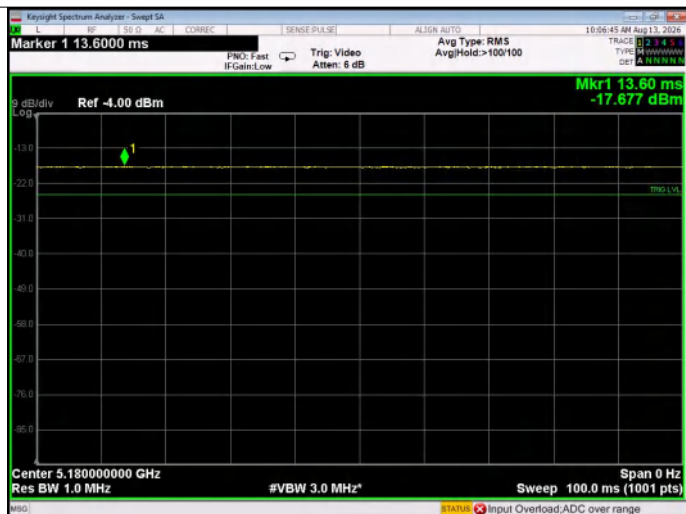
7.4 TEST RESULTS

mode	On time(ms)	Period(ms)	Duty Cycle(%)
802.11a 5180	100	100	100
802.11n20 5180	100	100	100
802.11n40 5190	100	100	100
802.11ac20 5180	100	100	100
802.11ac40 5190	100	100	100
802.11ac80 5210	100	100	100
802.11a 5745	100	100	100
802.11n20 5745	100	100	100
802.11n40 5755	100	100	100
802.11ac20 5745	100	100	100
802.11ac40 5755	100	100	100
802.11ac80 5775	100	100	100

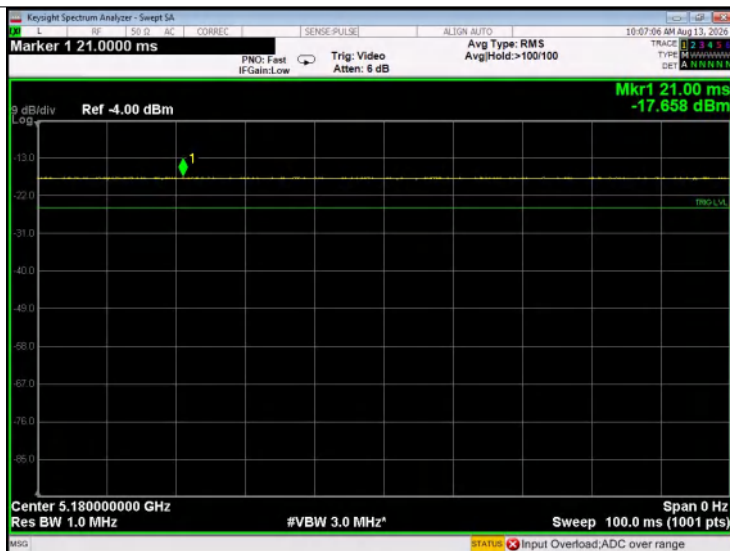
Duty Cycle NVNT a20 5180MHz



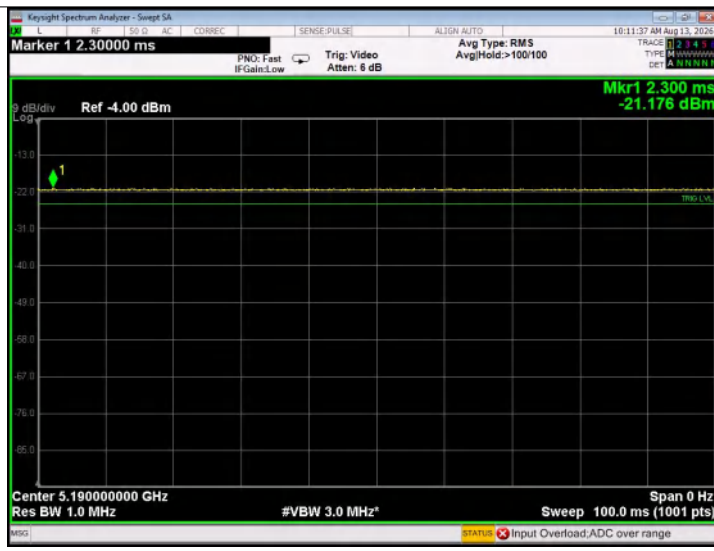
Duty Cycle NVNT n20 5180MHz



Duty Cycle NVNT ac20 5180MHz

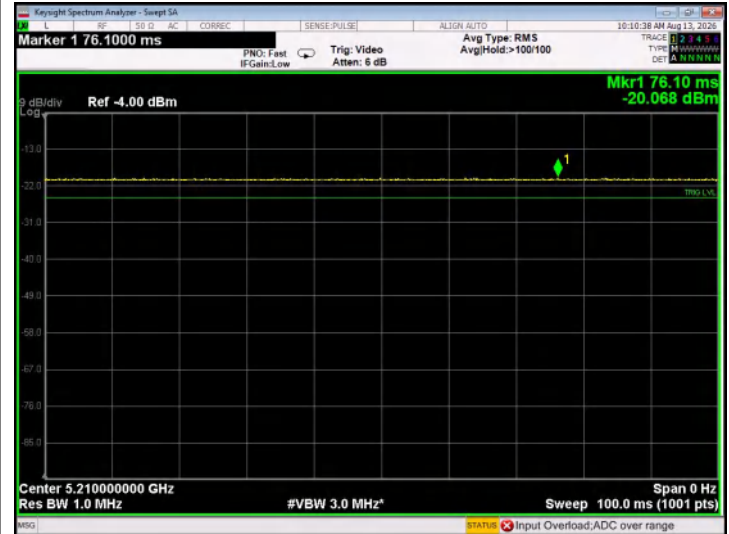
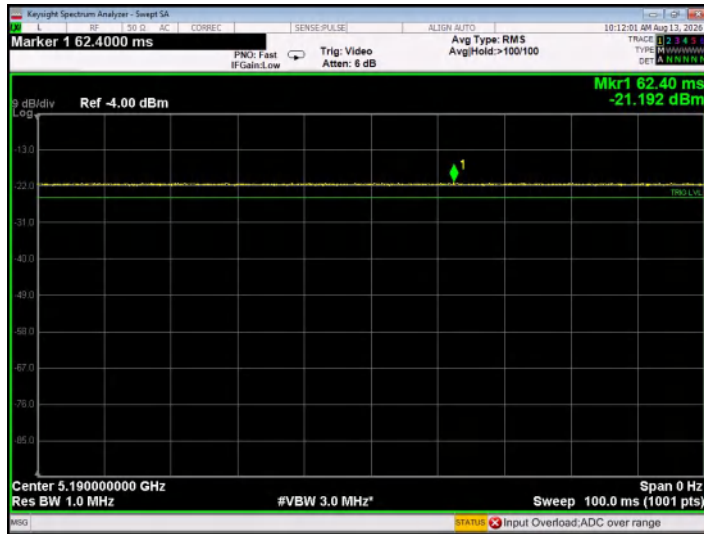


Duty Cycle NVNT ac40 5190MHz



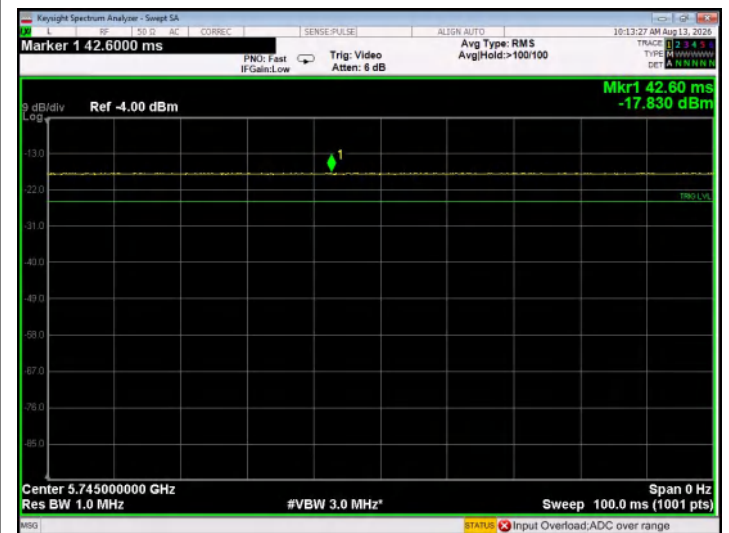
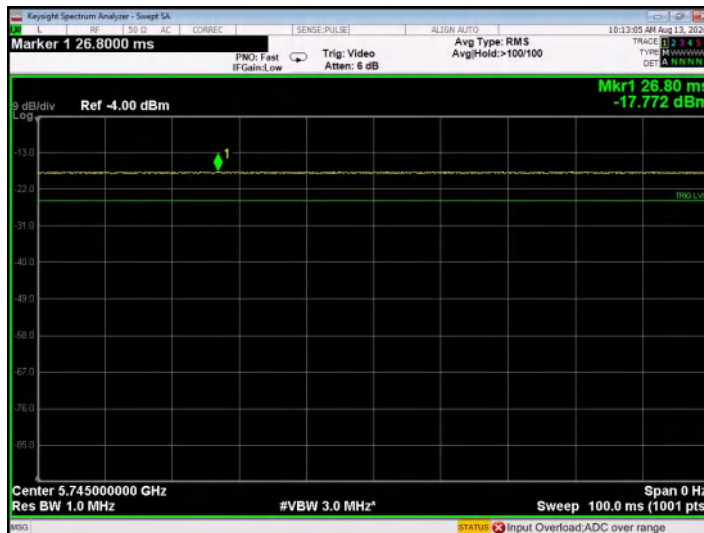
Duty Cycle NVNT n40 5190MHz

Duty Cycle NVNT ac80 5190MHz



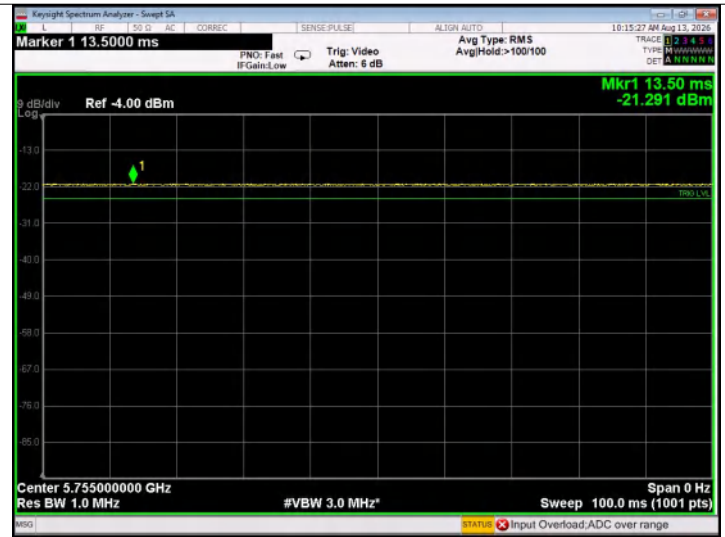
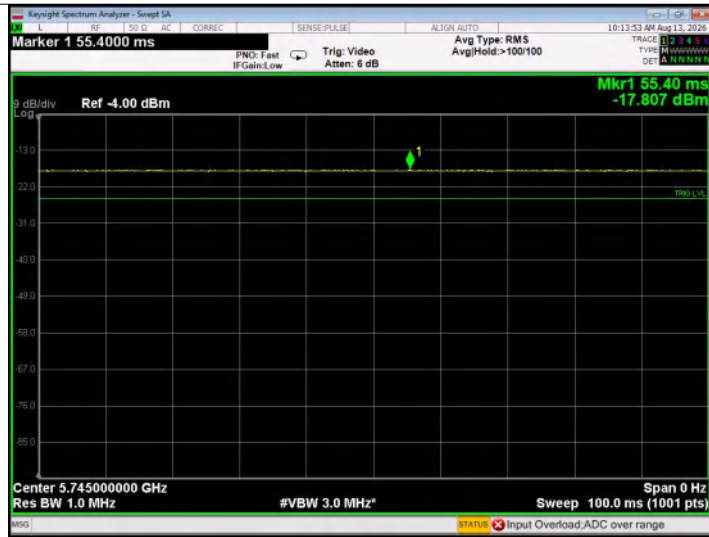
Duty Cycle NVNT a20 5745MHz

Duty Cycle NVNT ac20 5745MHz



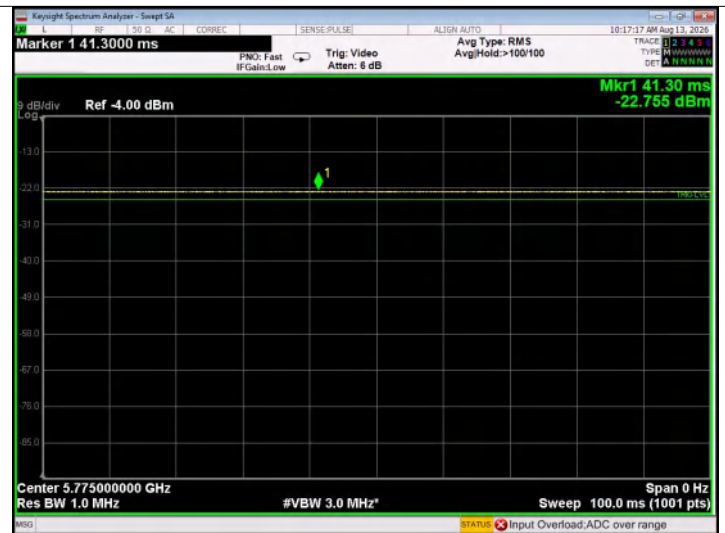
Duty Cycle NVNT n20 5745MHz

Duty Cycle NVNT ac40 5755MHz



Duty Cycle NVNT n40 5755MHz

Duty Cycle NVNT ac 80 5775MHz



8 RADIATED EMISSION MEASUREMENT

8.1 RADIATED EMISSION LIMITS

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) 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 in the 5.725-5.85 GHz band: 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.

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 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

8.2 TEST PROCEDURE

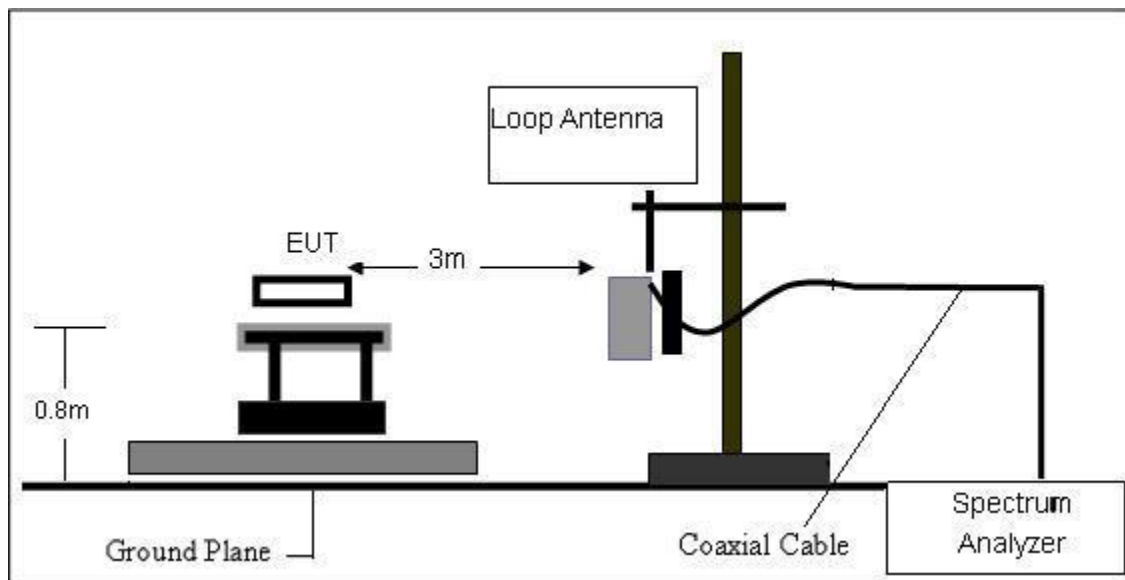
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 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:

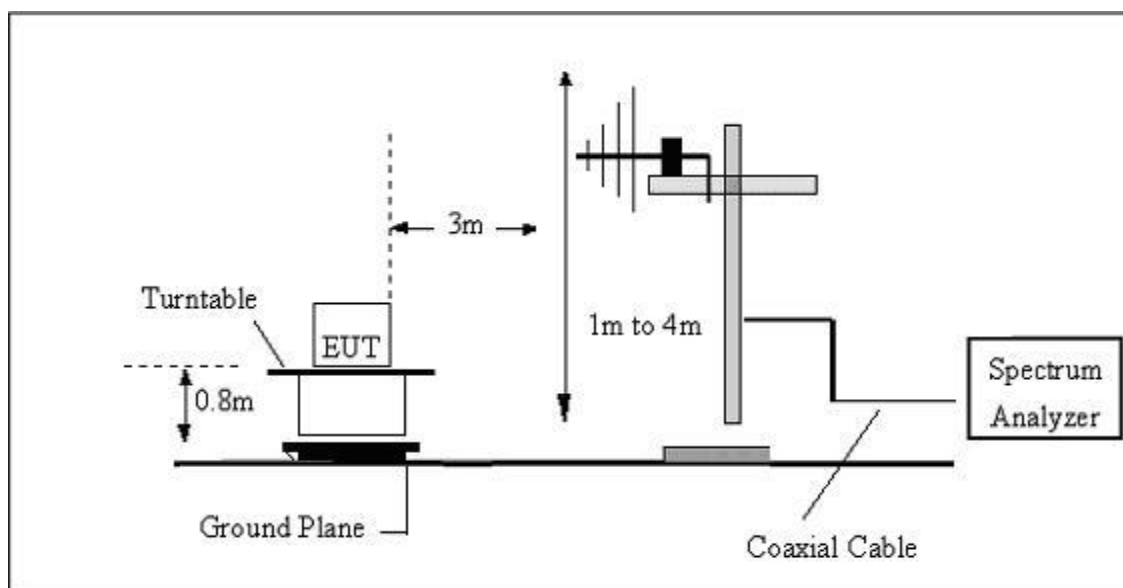
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

8.3 TESTSETUP

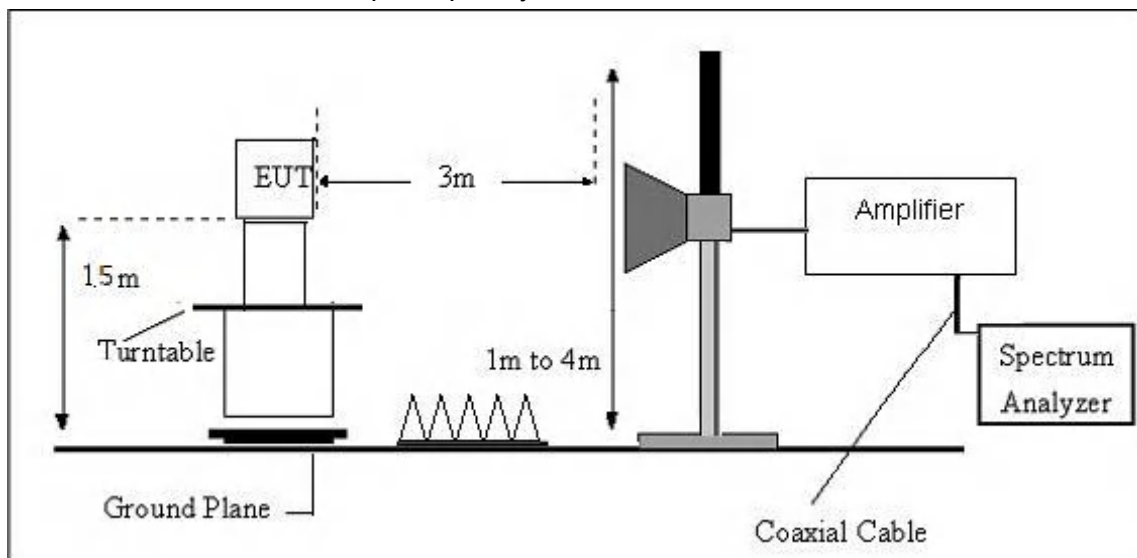
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



8.4. TEST RESULTS

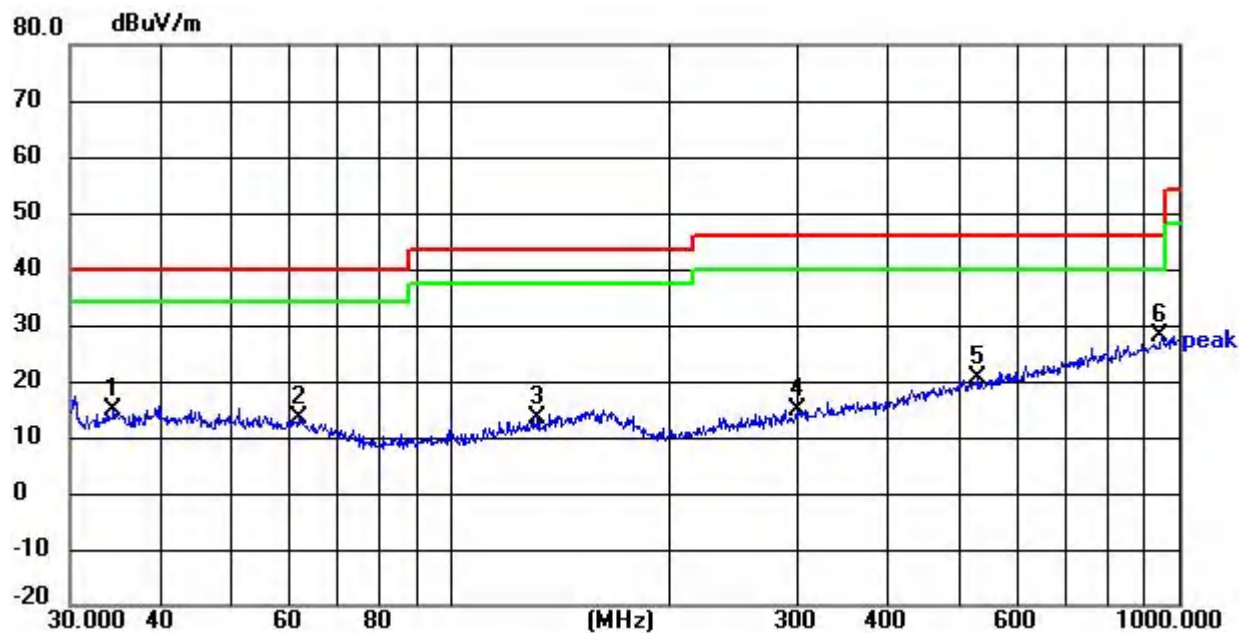
(9KHz-30MHz)

Note:

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

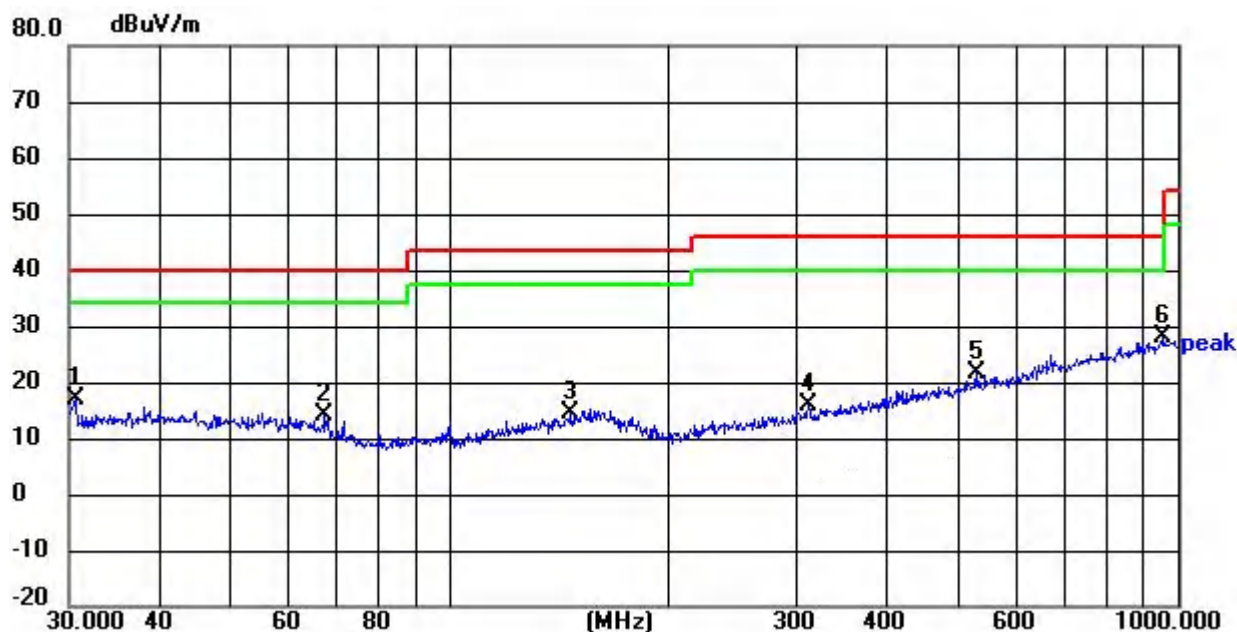
(30MHz-1000MHz)

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.3964	26.80	-12.10	14.70	40.00	-25.30	QP
2	61.9951	26.72	-13.35	13.37	40.00	-26.63	QP
3	131.7577	26.48	-12.91	13.57	43.50	-29.93	QP
4	299.3158	26.67	-11.77	14.90	46.00	-31.10	QP
5	528.2458	26.95	-6.30	20.65	46.00	-25.35	QP
6	945.4399	27.77	0.36	28.13	46.00	-17.87	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6379	29.26	-12.30	16.96	40.00	-23.04	QP
2	67.2022	28.35	-14.37	13.98	40.00	-26.02	QP
3	146.8877	26.23	-11.62	14.61	43.50	-28.89	QP
4	311.0867	27.37	-11.41	15.96	46.00	-30.04	QP
5	528.2458	27.95	-6.30	21.65	46.00	-24.35	QP
6	955.4381	27.81	0.39	28.20	46.00	-17.80	QP

Remarks:

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



(1GHz~18GHz) Restricted band and Spurious emission Requirements

802.11n20 U-NII-1 Low Channel 5180MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4754	53.68	31.91	5.743	43.89	47.44	74	-26.56	Vertical
8639	44.93	36.20	7.229	41.92	46.44	68.2	-21.76	Vertical
11473	45.92	37.50	8.490	40.69	51.22	74	-22.78	Vertical
14925	38.27	38.55	9.329	39.57	46.58	68.2	-21.62	Vertical
16822	33.23	42.60	9.526	39.42	45.94	68.2	-22.26	Vertical
17893	*	*	*	*	*	74	*	Vertical
4689	55.73	31.74	5.701	44.00	49.17	74.00	-24.83	Horizontal
9742	40.92	37.40	7.341	41.65	44.01	68.20	-24.19	Horizontal
11768	43.17	37.94	8.532	40.75	48.89	74.00	-25.11	Horizontal
14792	35.86	39.52	9.239	39.52	45.10	68.20	-23.10	Horizontal
16356	30.93	45.65	9.410	38.96	47.03	68.20	-21.17	Horizontal
17720	*	*	*	*	*	74	*	Horizontal

802.11n20 U-NII-1 Middle Channel 5200MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4354	55.72	31.82	5.507	44.53	48.52	74	-25.48	Vertical
8472	48.21	36.36	7.195	41.84	49.93	74	-24.08	Vertical
12968	36.35	39.69	8.624	40.22	44.44	68.2	-23.76	Vertical
14793	34.72	37.96	9.239	39.52	42.40	68.2	-25.80	Vertical
16682	30.26	43.27	9.476	39.28	43.73	68.2	-24.47	Vertical
17739	*	*	*	*	*	74	*	Vertical
4126	57.63	31.00	5.393	44.90	49.12	74.00	-24.88	Horizontal
7360	46.82	35.54	6.512	42.37	46.50	74.00	-27.50	Horizontal
11685	40.54	37.87	8.522	40.74	46.19	74.00	-27.81	Horizontal
14753	36.27	37.72	9.212	39.50	43.70	68.20	-24.50	Horizontal
16482	30.42	44.68	9.410	39.08	45.43	68.20	-22.77	Horizontal
17792	*	*	*	*	*	74	*	Horizontal

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

802.11n20 U-NII-1 Middle Channel 5240MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4574	58.48	31.80	5.627	44.18	51.73	74	-22.27	Vertical
8836	49.42	36.37	5.627	44.18	47.24	68.2	-20.96	Vertical
11537	43.65	37.50	8.504	40.71	48.94	74	-25.06	Vertical
14942	36.41	38.58	9.341	39.58	44.75	68.2	-23.45	Vertical
15873	30.26	43.75	9.423	38.73	44.70	74	-29.30	Vertical
17746	*	*	*	*	*	74	*	Vertical
4825	56.74	32.05	5.788	43.78	50.80	74	-23.20	Horizontal
7652	47.94	36.21	6.696	42.02	48.83	74	-25.17	Horizontal
12874	40.43	39.75	8.607	40.28	48.51	68.2	-19.69	Horizontal
15947	36.64	44.36	9.415	38.65	51.77	74	-22.24	Horizontal
16842	35.93	42.60	9.533	39.44	48.62	68.2	-19.58	Horizontal
	*	*	*	*	*	74	*	Horizontal

802.11n20 U-NII-3 Low Channel 5745MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3217.00	52.18	29.8	4.619	46.43	40.17	68.2	-28.03	Vertical
4672.00	48.69	31.81	5.69	44.02	42.17	74	-31.83	Vertical
10746.00	43.06	41.54	8.036	40.83	51.81	74	-22.19	Vertical
13852.00	38.25	38.58	8.894	39.35	48.45	68	-21.83	Vertical
15693.00	37.17	42.54	9.441	38.91	50.24	74	-23.76	Vertical
17739.00	*	*	*	*	*	74	*	Vertical
3528.00	51.57	30.79	4.745	45.9	41.21	68.2	-27.00	Horizontal
4781.00	47.93	31.96	5.76	43.85	41.80	74	-32.20	Horizontal
11725.00	46.29	37.9	8.527	40.75	51.97	74	-22.03	Horizontal
13962.00	37.64	38.25	8.921	39.24	51.29	68.2	-22.63	Horizontal
15738.00	35.91	42.98	9.436	38.86	49.47	74	-24.53	Horizontal
17694.00	*	*	*	*	*	68.2	*	Horizontal

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

802.11a U-NII-3 Middle channel 5785MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3716.00	54.63	30.93	4.978	45.58	44.96	74	-29.04	Vertical
7935.00	45.18	36.70	6.895	41.68	47.10	68.2	-21.11	Vertical
12937.00	37.37	39.8	8.619	40.24	45.55	68.2	-22.65	Vertical
15746.00	36.72	43.06	9.435	38.85	50.37	74	-23.64	Vertical
16832.00	34.91	42.6	9.530	39.43	47.61	68.2	-20.59	Vertical
17893.00	*	*	*	*	*	74	*	Vertical
4427.00	53.27	31.89	5.544	44.42	46.28	74	-27.72	Horizontal
8652.00	45.63	36.2	7.231	41.93	47.13	68.2	-21.07	Horizontal
13956.00	39.68	38.28	8.919	39.24	47.64	68.2	-20.56	Horizontal
15753.00	33.57	43.12	9.435	38.85	47.28	68.2	-20.93	Horizontal
16827.00	33.02	42.6	9.528	39.43	45.72	74	-28.28	Horizontal
17680.00	*	*	*	*	*	68.2	*	Horizontal

802.11a U-NII-3 High channel 5825MHz

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4758	53.68	31.92	5.745	43.89	47.46	74	-26.55	Vertical
7392	47.17	35.67	6.530	42.33	47.04	74	-26.96	Vertical
11238	36.85	38.65	8.406	40.65	43.26	74	-30.74	Vertical
14745	35.43	37.69	9.207	39.5	42.83	68.2	-25.37	Vertical
16826	34.68	42.6	9.527	39.43	47.38	68.2	-20.82	Vertical
17838	*	*	*	*	*	74	*	Vertical
4582	54.17	31.77	5.632	44.17	54.17	74	-26.60	Horizontal
8953	45.18	36.51	7.273	42.08	45.18	68.2	-21.32	Horizontal
10379	38.63	38.5	7.69	41.16	38.63	68.2	-24.54	Horizontal
14893	33.42	38.46	9.307	39.56	33.42	68.2	-26.57	Horizontal
16927	31.85	42.75	9.564	39.53	31.85	68.2	-23.57	Horizontal
17791	*	*	*	*	*	74	*	Horizontal

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.



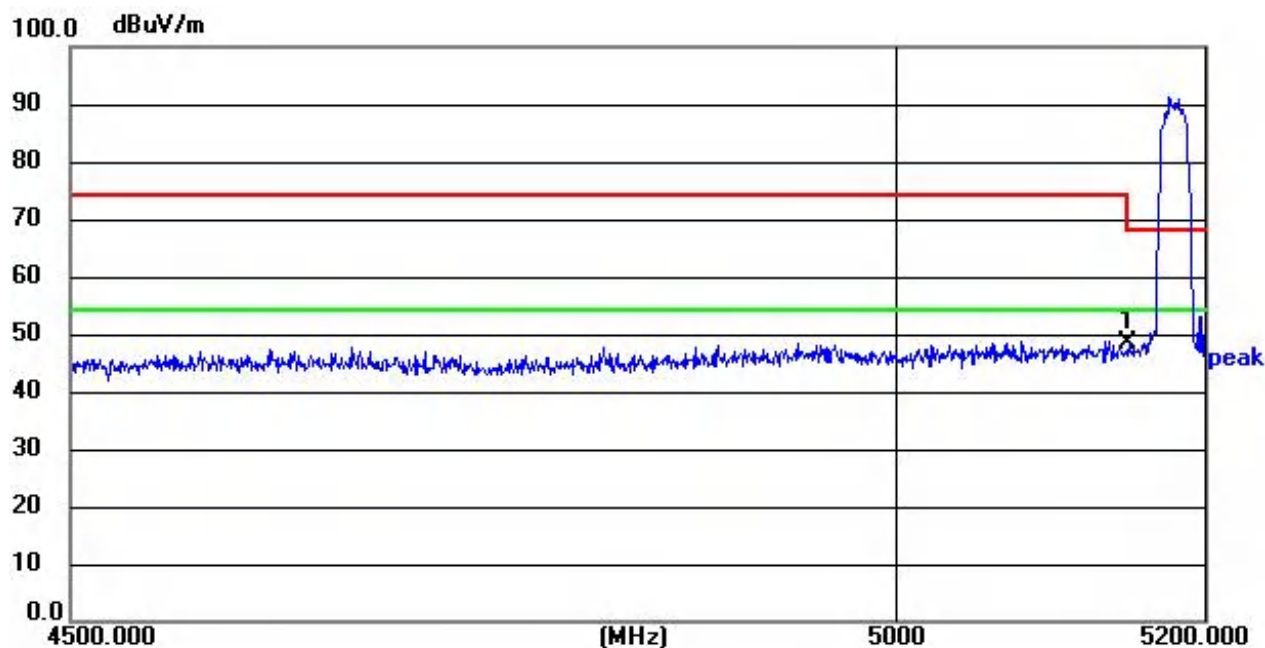
(18GHz~40GHz) Restricted band and Spurious emission Requirements

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge data

B1-11n20 -LOW : Vertical

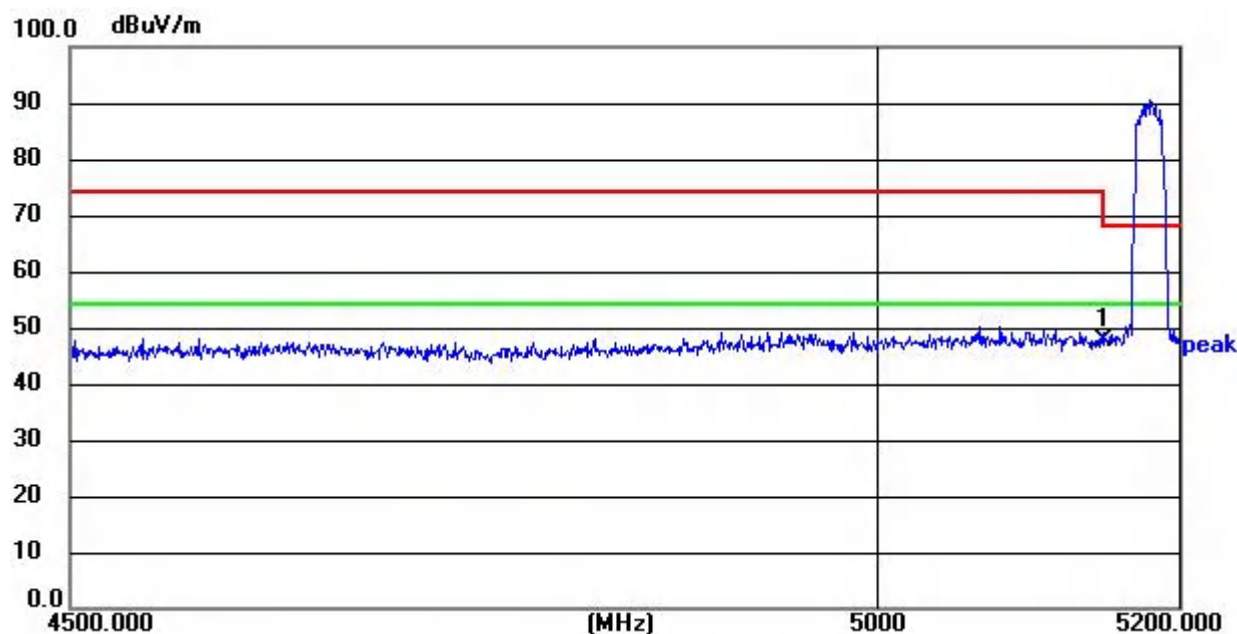


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.0000	52.75	-4.19	48.56	68.20	-19.64	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B1-11n20 -LOW : Horizontal

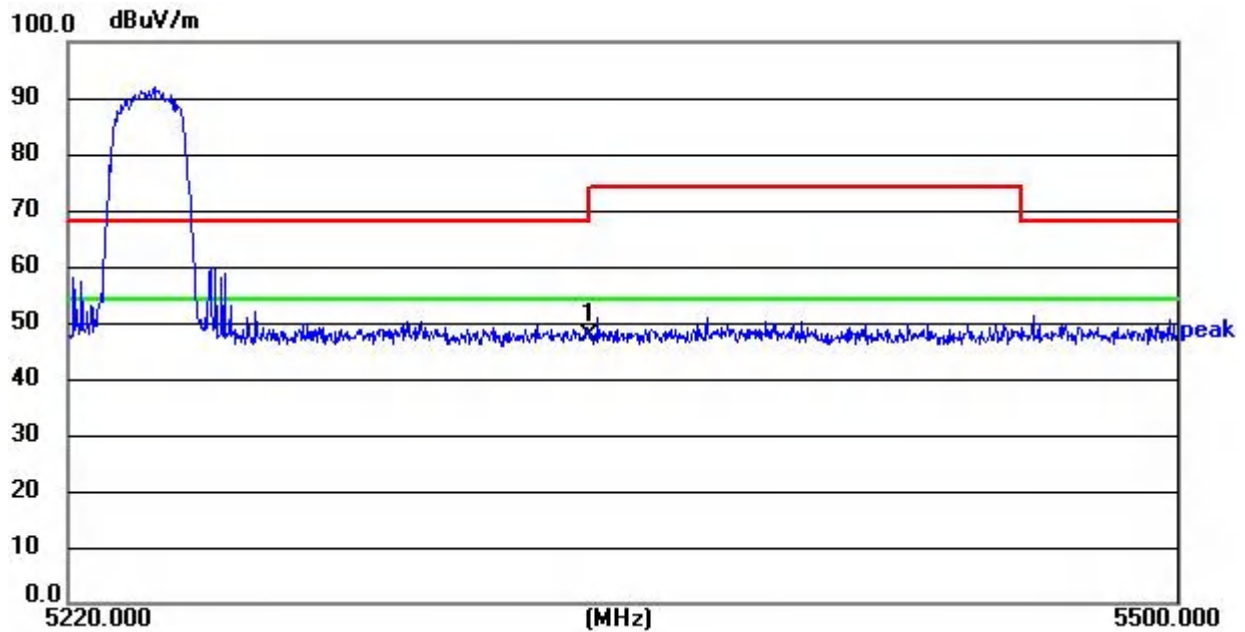


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.0000	51.76	-4.19	47.57	68.20	-20.63	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B1-11n20 -High : Vertical

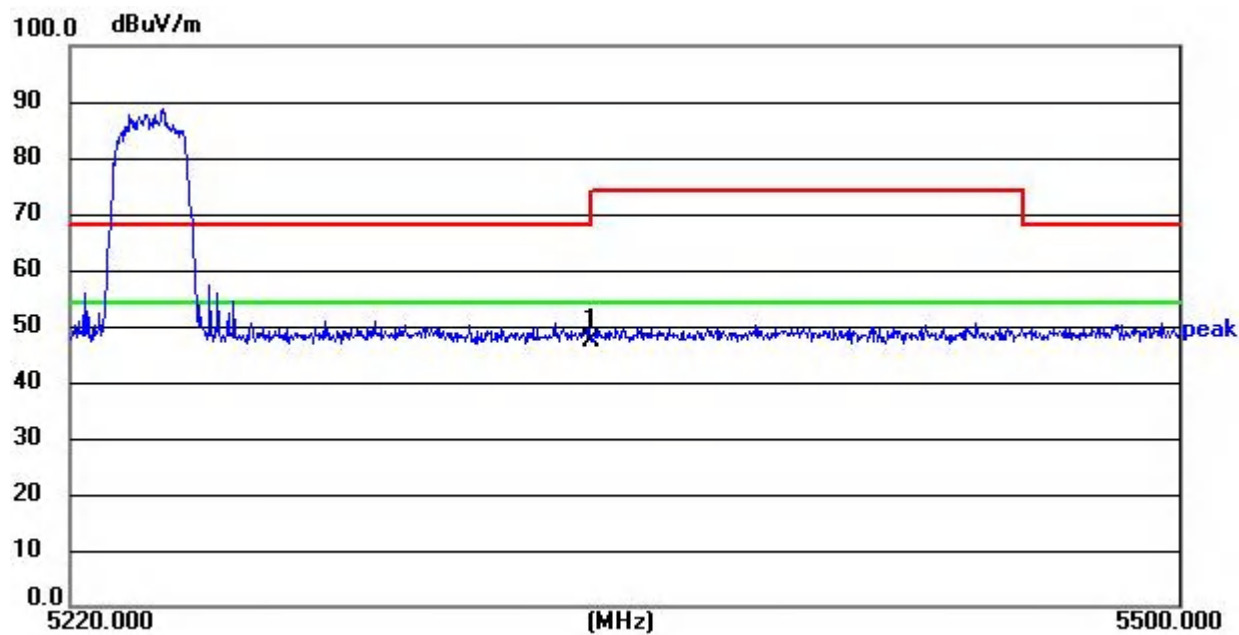


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.0000	51.70	-3.91	47.79	68.20	-20.41	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B1-11n20 -High : Horizontal



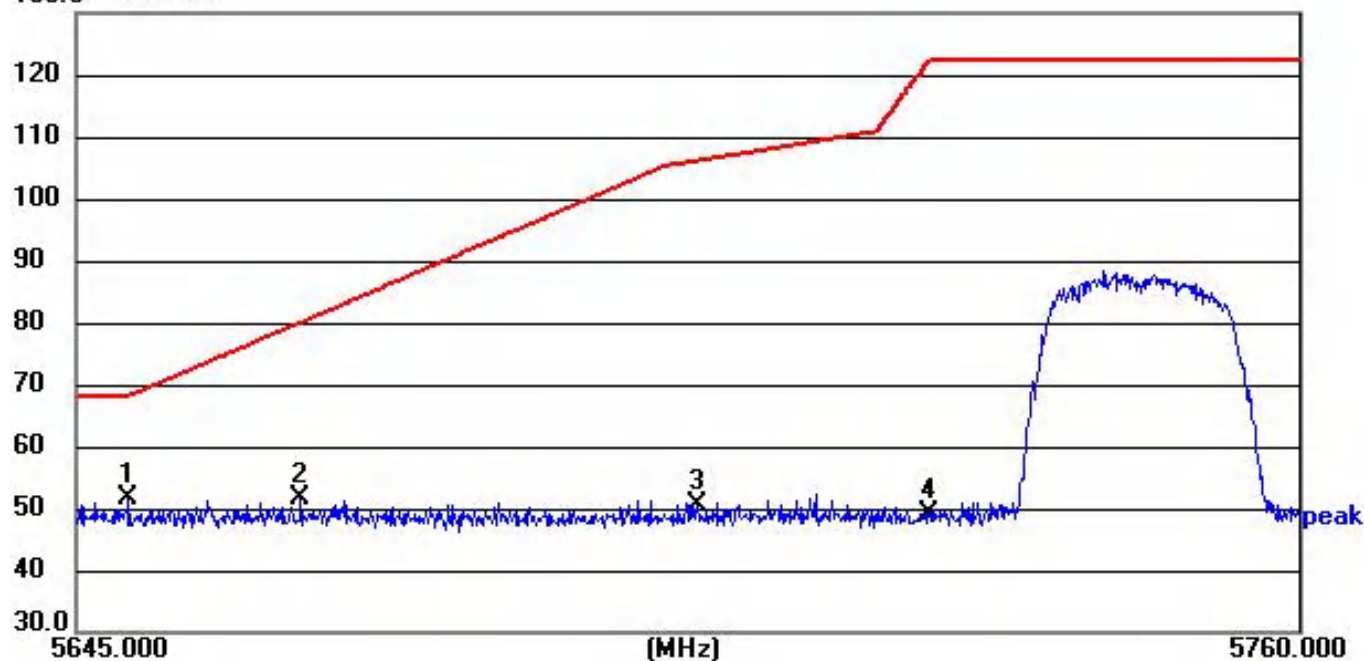
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.0000	51.17	-3.91	47.26	68.20	-20.94	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B4-11n20 -LOW : Horizontal

130.0 dBuV/m



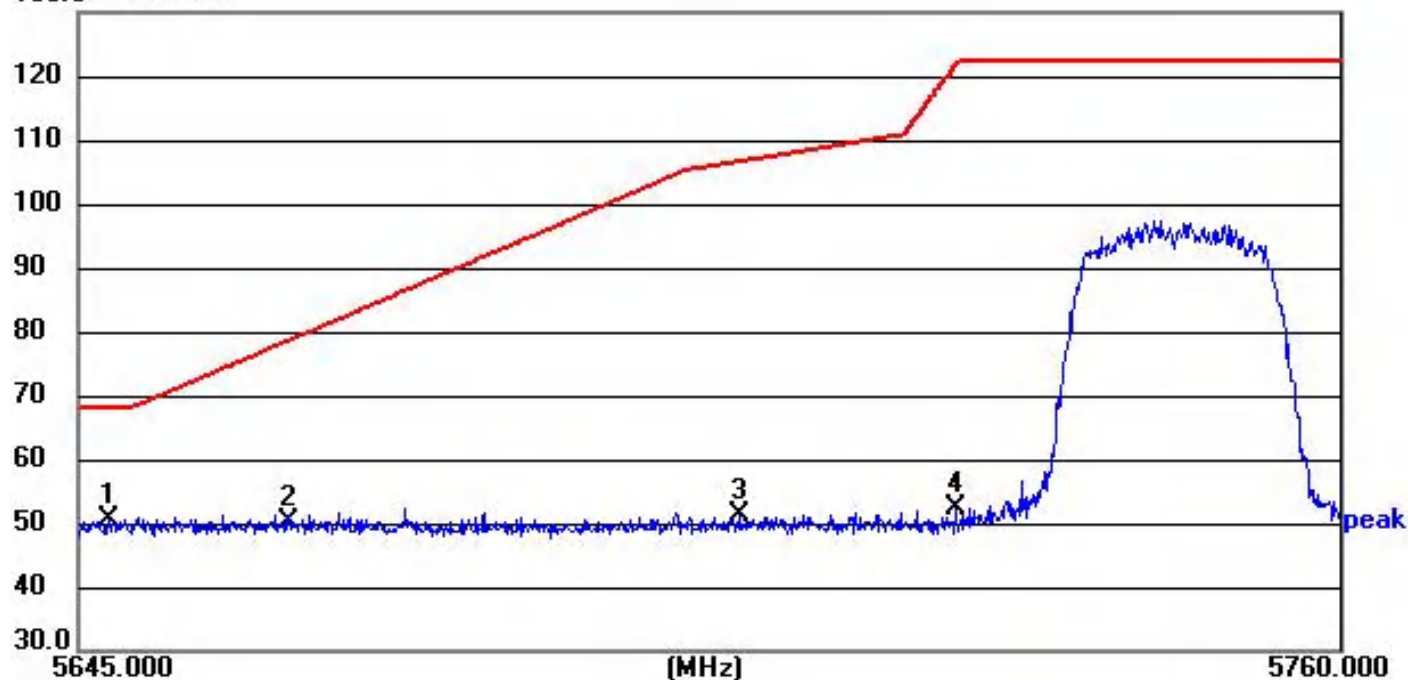
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5649.9070	53.86	-2.16	51.70	68.20	-16.50	peak
2	5665.9138	53.63	-2.17	51.46	79.98	-28.52	peak
3	5703.2471	52.70	-2.18	50.52	106.11	-55.59	peak
4	5725.0000	51.41	-2.14	49.27	122.20	-72.93	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B4-11n20 -LOW : Vertical

130.0 dBuV/m



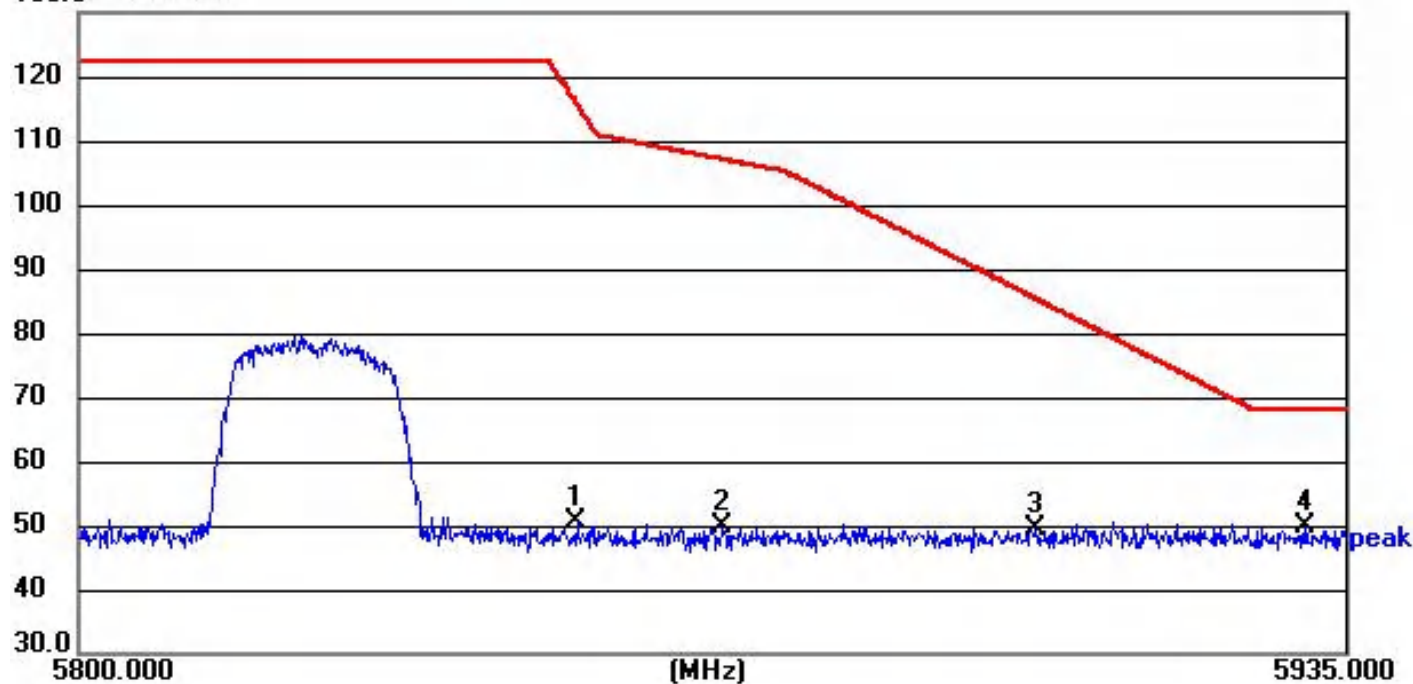
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5647.7384	52.81	-2.16	50.65	68.20	-17.55	peak
2	5664.0822	52.23	-2.17	50.06	78.62	-28.56	peak
3	5704.8610	53.37	-2.17	51.20	106.56	-55.36	peak
4	5724.7240	54.49	-2.14	52.35	121.57	-69.22	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B4-11n20 -High : Horizontal

130.0 dBuV/m

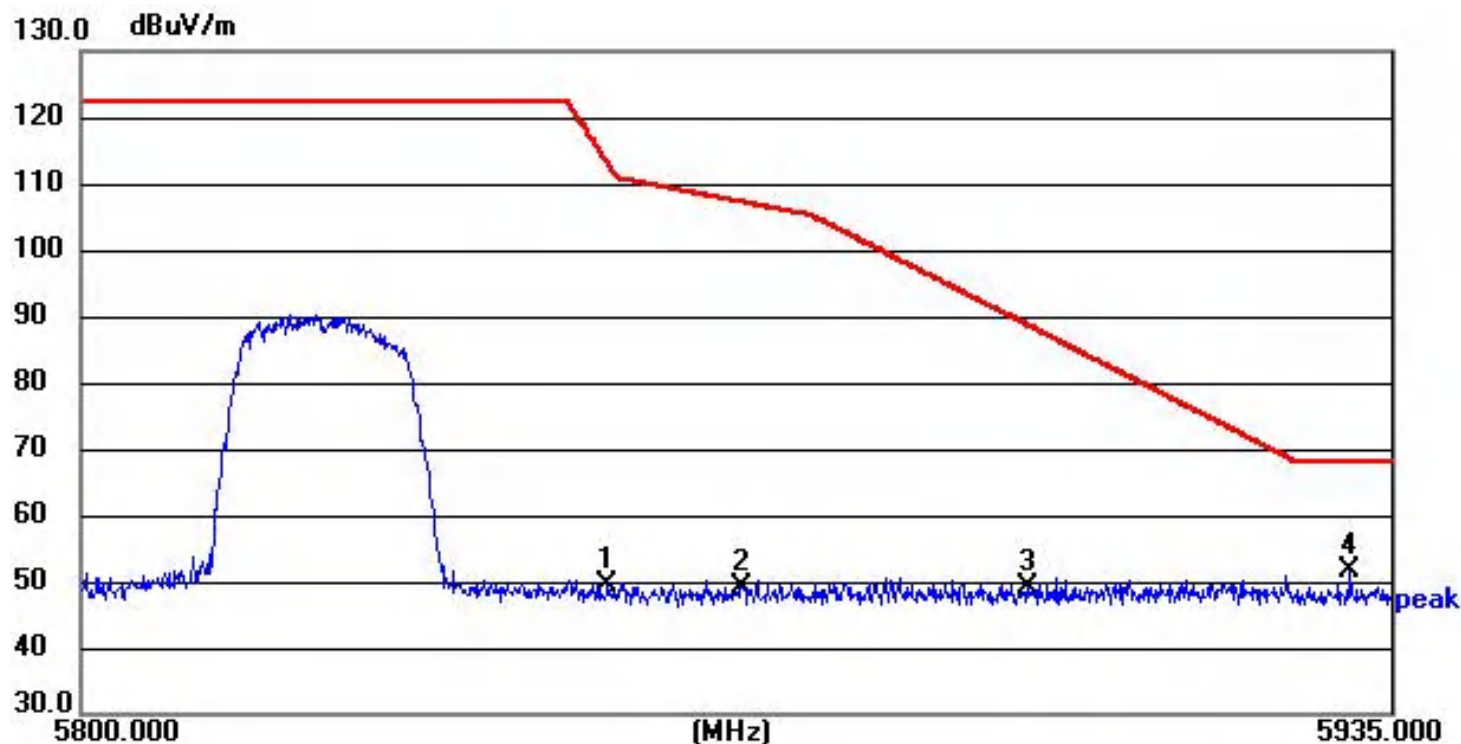


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5852.6559	52.44	-2.04	50.40	116.14	-65.74	peak
2	5868.3293	51.94	-1.95	49.99	107.07	-57.08	peak
3	5901.7065	51.23	-1.77	49.46	85.44	-35.98	peak
4 *	5930.7597	51.35	-1.66	49.69	68.20	-18.51	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

B4-11n20 -High : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5853.8705	51.40	-2.03	49.37	113.38	-64.01	peak
2	5867.7881	51.18	-1.95	49.23	107.22	-57.99	peak
3	5897.2181	50.76	-1.78	48.98	88.76	-39.78	peak
4 *	5930.7597	53.31	-1.66	51.65	68.20	-16.55	peak

Note:

- 1.All other emissions are attenuated 20dB below the limits, so it does not reported in the report.
- 2.All modes are tested, with the worst mode being 80211n20
- 3.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

9 CONDUCTED EMISSION TEST

9.1 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.

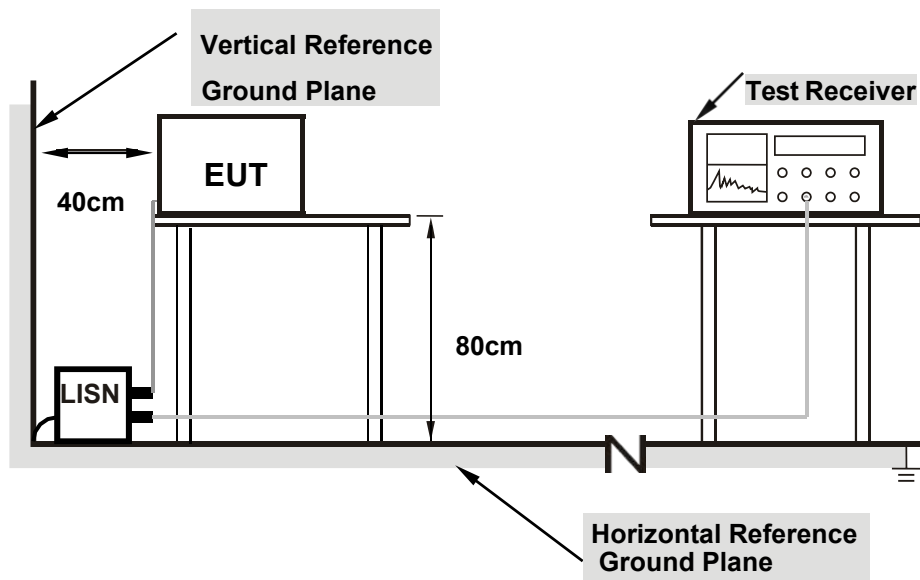
The following table is the setting of the receiver

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

9.2 TEST PROCEDURE

- The EUT was 0.8 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.

9.3 TEST SETUP

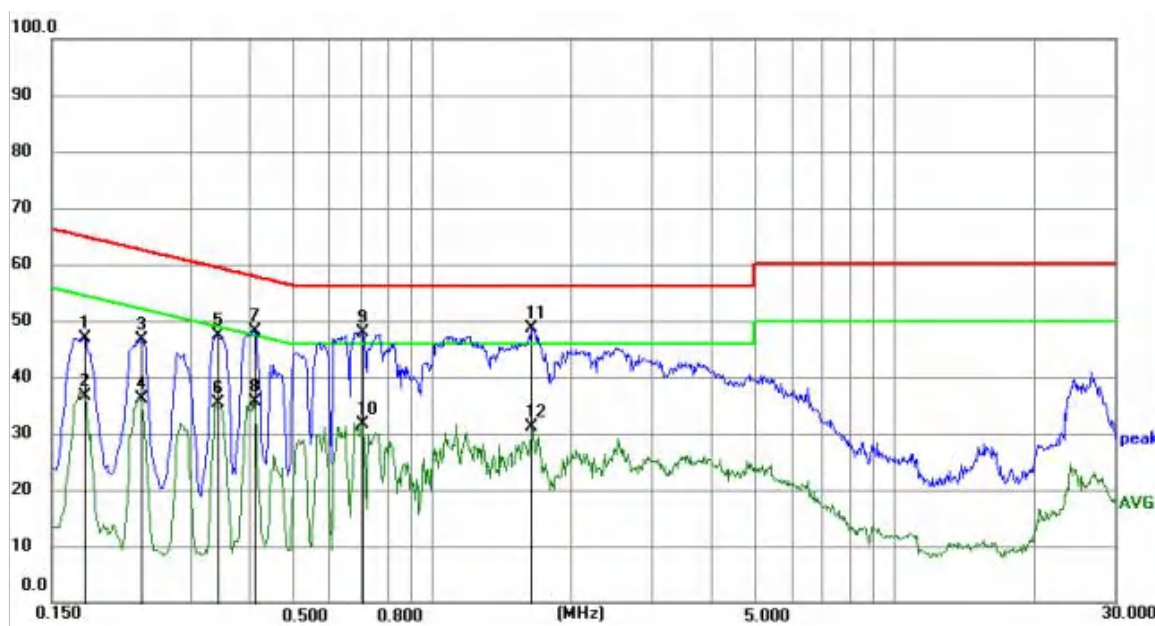


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

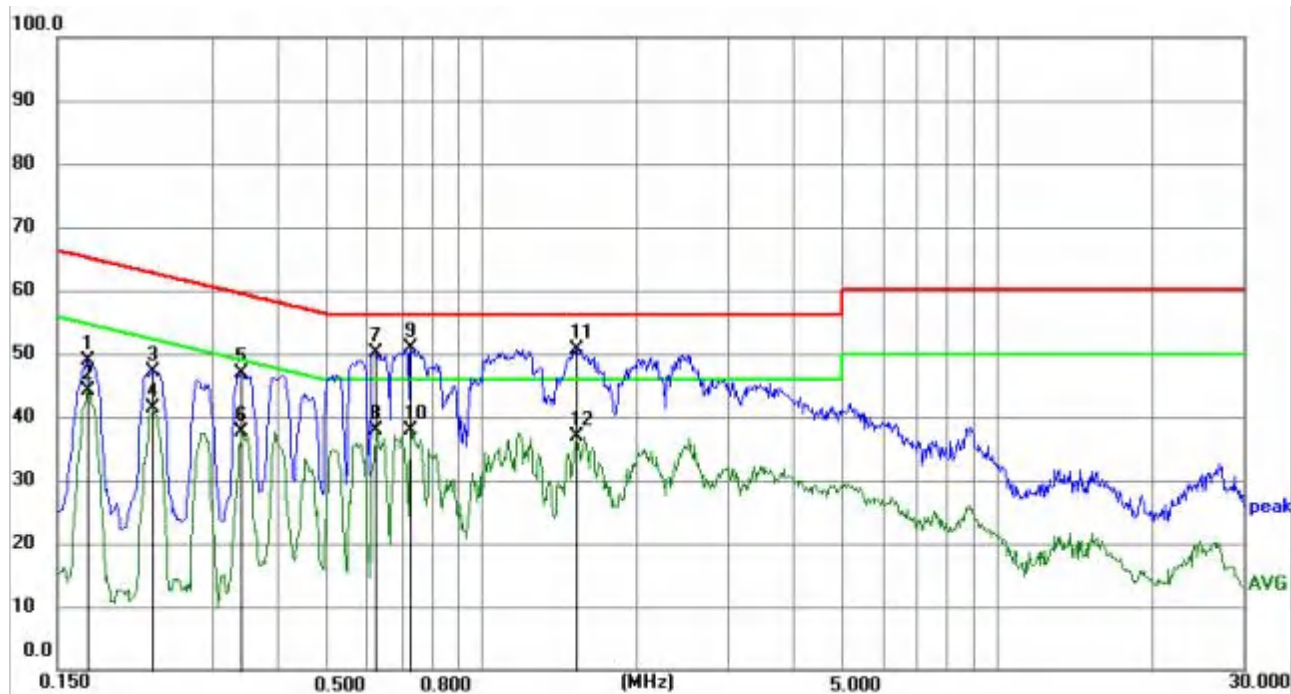
9.4 TEST RESULT

Temperature:	22.1 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 1		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1768	37.04	9.86	46.90	64.63	17.73	QP
2	0.1768	26.82	9.86	36.68	54.63	17.95	AVG
3	0.2353	36.84	9.83	46.67	62.26	15.59	QP
4	0.2353	26.39	9.83	36.22	52.26	16.04	AVG
5	0.3435	37.46	9.88	47.34	59.12	11.78	QP
6	0.3435	25.38	9.88	35.26	49.12	13.86	AVG
7	0.4126	38.32	9.90	48.22	57.60	9.38	QP
8	0.4126	25.67	9.90	35.57	47.60	12.03	AVG
9	0.7075	37.90	9.96	47.86	56.00	8.14	QP
10	0.7075	21.78	9.96	31.74	46.00	14.26	AVG
11	1.6391	38.54	10.02	48.56	56.00	7.44	QP
12	1.6391	21.03	10.02	31.05	46.00	14.95	AVG

Temperature:	22.1 °C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 1		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1723	38.93	9.94	48.87	64.85	15.98	QP
2	0.1723	34.16	9.94	44.10	54.85	10.75	AVG
3	0.2310	37.23	9.89	47.12	62.41	15.29	QP
4	0.2310	31.45	9.89	41.34	52.41	11.07	AVG
5	0.3407	36.90	9.90	46.80	59.19	12.39	QP
6	0.3407	27.62	9.90	37.52	49.19	11.67	AVG
7	0.6219	40.35	9.90	50.25	56.00	5.75	QP
8	0.6219	28.06	9.90	37.96	46.00	8.04	AVG
9	0.7304	40.93	9.88	50.81	56.00	5.19	QP
10	0.7304	28.09	9.88	37.97	46.00	8.03	AVG
11	1.5314	40.56	10.02	50.58	56.00	5.42	QP
12	1.5314	26.93	10.02	36.95	46.00	9.05	AVG

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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.

10.2 RESULT

The antennas used for this product are PCB 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 2.4 dBi.

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