FCC Test Report

FCC ID	:	**2AX7S-ACEP13M**
Equipment	:	**Digital Signage Display**
Model No.	:	**ACeP13M**
Brand Name	:	**AIMobile**
Applicant	:	**AIMobile Co., Ltd.**
Address	:	**6F, No. 166, Section 4, Chengde Road, Shilin District, Taipei City, 111**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Feb. 25, 2022**
Tested Date	:	**Mar. 08 ~ May 13, 2022**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR222501-01AN	Rev. 01	Initial issue	Jun. 21, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.466MHz 35.24 (Margin -11.34dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 38.56MHz 35.37 (Margin -4.63dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 13.49 5250~5350MHz: 13.47 5470~5725MHz: 13.47 5725~5850MHz: 13.49	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [8] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [8] 149-165 [5]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [3] 151-159 [2]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [8] 149-165 [5]	1	MCS 0-8
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [3] 151-159 [2]	1	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530 5775	42 [1] 58 [1] 106 [1] 155 [1]	1	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Pulse Electronics	ANTA0ZV1420124551	PIFA	UFL	2.81	3.25	3.49	3.73	3.97

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5V/3A from adapter 9V/2A from adapter

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	Type C cable	USB3.0 AMTO TYPE CM CABLE ASSEMBLY L=1500MM
2	Battery	Brand: Getac Technology Corporation. Model: AIM-BAT-8 Power Rating: 3.8Vdc, 4900mAh

1.1.5 Channel List

802.11a / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
Channel	**Frequency(MHz)**	**Channel**	**Frequency(MHz)**
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	134	5670
64	5320	151	5755
100	5500	159	5795
104	5520	**802.11ac VHT80**	
108	5540	42	5210
112	5560	58	5290
116	5580	106	5530
132	5660	155	5775
136	5680	---	---
140	5700	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Qualcomm Radio Control Tool, V4.00195.0		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	96.66%	0.15
	ac VHT20	95.90%	0.18
	ac VHT40	93.39%	0.30
	ac VHT80	86.64%	0.62

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	12.5
11a	5200	12.5
11a	5240	12
11a	5260	12
11a	5300	12.5
11a	5320	12.5
11a	5500	11.5
11a	5580	12
11a	5700	12
11a	5745	13
11a	5785	13
11a	5825	12.5
ac VHT20	5180	12.5
ac VHT20	5200	12.5
ac VHT20	5240	12
ac VHT20	5260	12.5
ac VHT20	5300	12.5
ac VHT20	5320	12.5
ac VHT20	5500	11.5
ac VHT20	5580	12
ac VHT20	5700	12
ac VHT20	5745	13
ac VHT20	5785	13
ac VHT20	5825	12.5

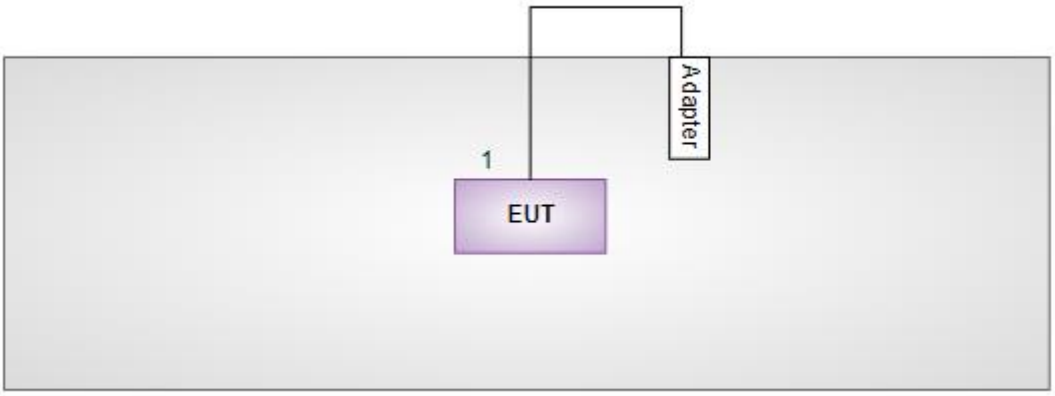
Modulation Mode	Test Frequency (MHz)	Power Index
ac VHT40	5190	12.5
ac VHT40	5230	12
ac VHT40	5270	12
ac VHT40	5310	12
ac VHT40	5510	11.5
ac VHT40	5550	11.5
ac VHT40	5670	11.5
ac VHT40	5755	12
ac VHT40	5795	12.5
ac VHT80	5210	10
ac VHT80	5290	10
ac VHT80	5530	9.5
ac VHT80	5775	10.5

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude 5400	---	---
2	Adapter	FILUX	RF-601U	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1	USB3.0 AMTO TYPE CM CABLE ASSEMBLY L=1500MM

Note: The support notebook was disconnected from EUT and removed from test table when EUT is set to transmit/receive continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 13, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	May 13, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 08 ~ Mar. 09, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	May 12, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10.7.18	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB
Time	±0.1%
Temperature	±0.6 ^{o}C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
AC Power Line Conducted Emissions	ac VHT40	5190	MCS 0	---
Unwanted Emissions ≤1GHz	ac VHT40	5190	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	6 Mbps	---
	ac VHT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	MCS 0	
	ac VHT40	5190 / 5230 / 5270 / 5310 / 5510 / 5550 / 5670	MCS 0	
	ac VHT80	5210 / 5290 / 5530	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
AC Power Line Conducted Emissions	11a	5825	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5825	6 Mbps	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a ac VHT20 ac VHT40 ac VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	---
Frequency Stability	Un-modulation	5785	---	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

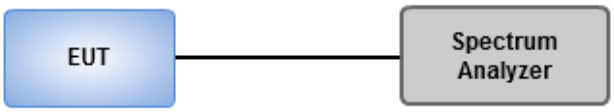
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak,Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Result of Emission Bandwidth

Ambient Condition	23-24°C / 66-67%	**Tested By**	Aska Huang

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz	
Operating Mode	**Limit**
Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
5250 ~ 5350	250mW or 11dBm+10 log B
5470 ~ 5725	250mW or 11dBm+10 log B
5725 ~ 5850	1 W
Note: “B” is the 26dB emission bandwidth in MHz.	

3.2.2 Test Procedures

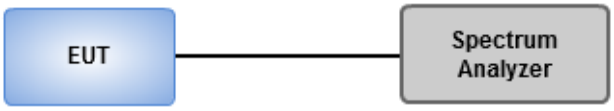
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%).

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-24°C / 66-67%	**Tested By**	Aska Huang

Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz	
Operating Mode	**Limit**
Client devices	11 dBm / MHz

Frequency Band (MHz)	Limit
5250 ~ 5350	11 dBm / MHz
5470 ~ 5725	11 dBm / MHz
5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle ≥ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

For 5725 ~ 5850 MHz

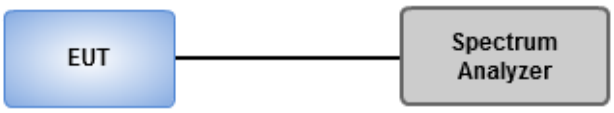
Duty cycle ≥ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23-24°C / 66-67%	**Tested By**	Aska Huang

Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	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.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.4.2 Test Procedures

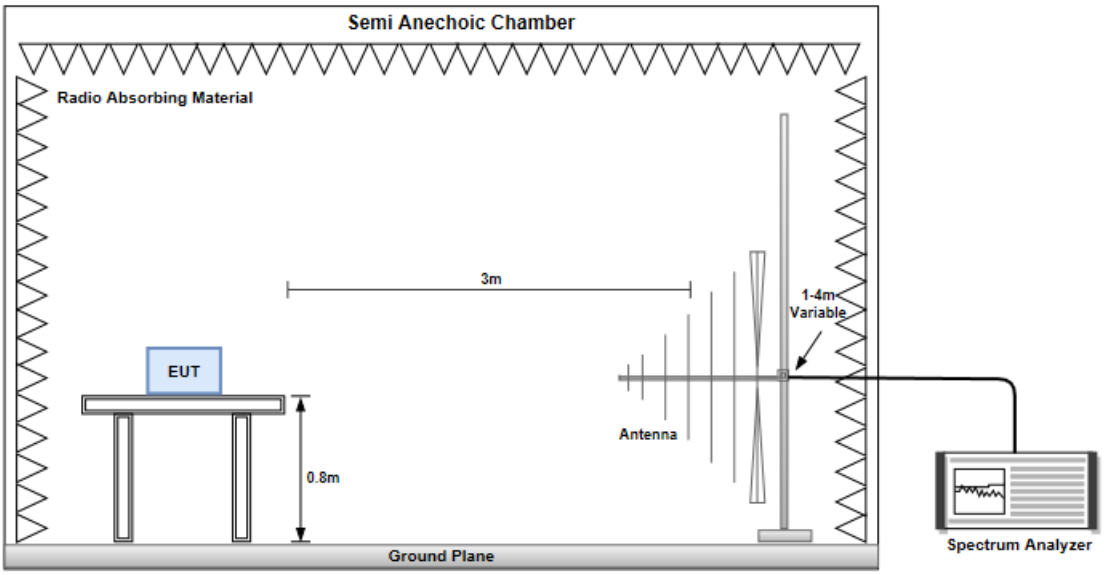
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

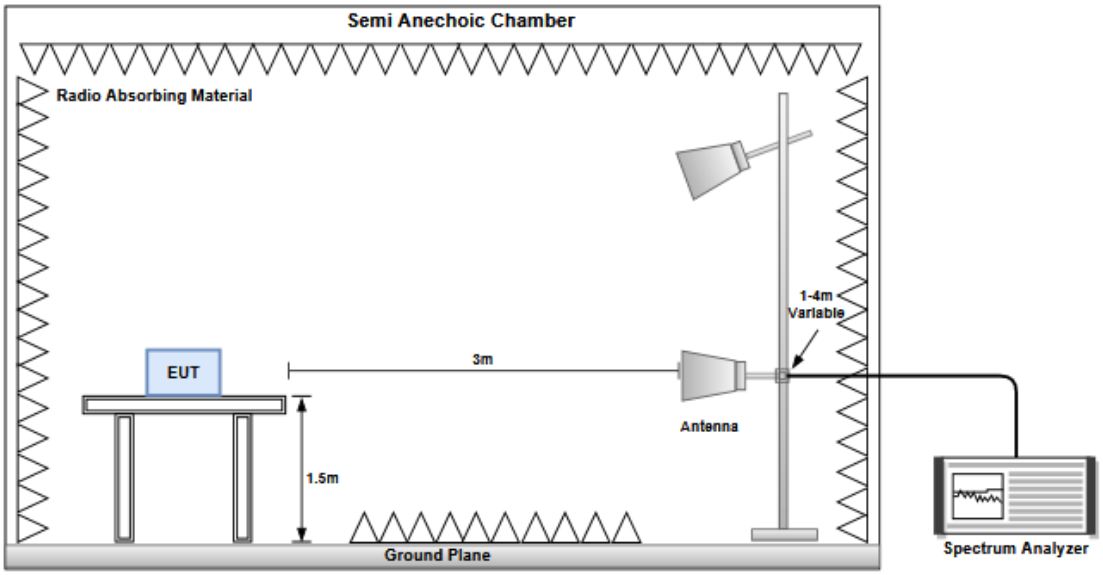
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

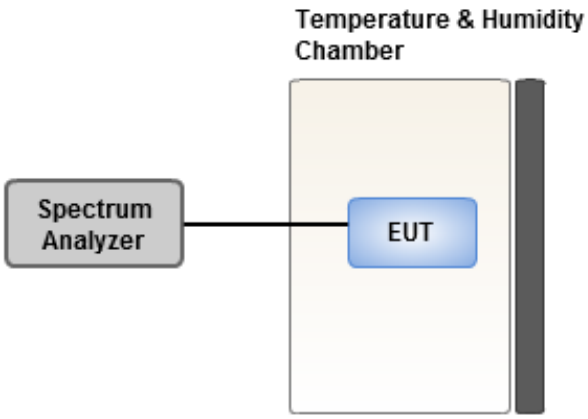
3.5.1 Limit of Frequency Stability

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.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23-24°C / 66-67%	**Tested By**	Aska Huang

Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

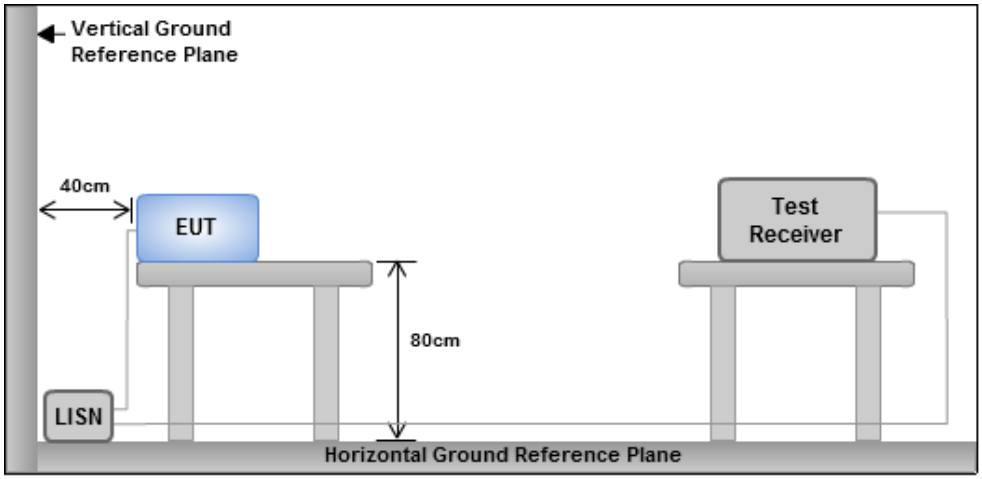
3.6.1 Limit of AC Power Line Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 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 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.85M	16.822M	16M8D1D	23.25M	16.792M
802.11ac VHT20_Nss1,(MCS0)_1TX	25.05M	17.931M	17M9D1D	24.69M	17.931M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.82M	36.582M	36M6D1D	41.34M	36.522M
802.11ac VHT80_Nss1,(MCS0)_1TX	84.6M	75.922M	75M9D1D	84.6M	75.922M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.73M	16.792M	16M8D1D	23.52M	16.792M
802.11ac VHT20_Nss1,(MCS0)_1TX	25.11M	17.961M	18M0D1D	24.69M	17.931M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.76M	36.582M	36M6D1D	41.64M	36.522M
802.11ac VHT80_Nss1,(MCS0)_1TX	84.12M	76.162M	76M2D1D	84.12M	76.162M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.76M	16.852M	16M9D1D	23.25M	16.792M
802.11ac VHT20_Nss1,(MCS0)_1TX	25.29M	17.961M	18M0D1D	24.78M	17.931M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.76M	36.582M	36M6D1D	41.58M	36.522M
802.11ac VHT80_Nss1,(MCS0)_1TX	83.76M	76.162M	76M2D1D	83.76M	76.162M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.78M	16.822M	16M8D1D	15.24M	16.822M
802.11ac VHT20_Nss1,(MCS0)_1TX	16.5M	17.961M	18M0D1D	15.09M	17.931M
802.11ac VHT40_Nss1,(MCS0)_1TX	35.94M	36.582M	36M6D1D	35.22M	36.582M
802.11ac VHT80_Nss1,(MCS0)_1TX	75M	76.162M	76M2D1D	75M	76.162M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

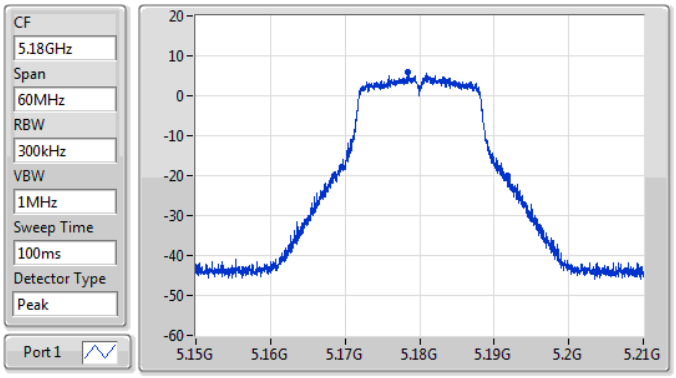
Result

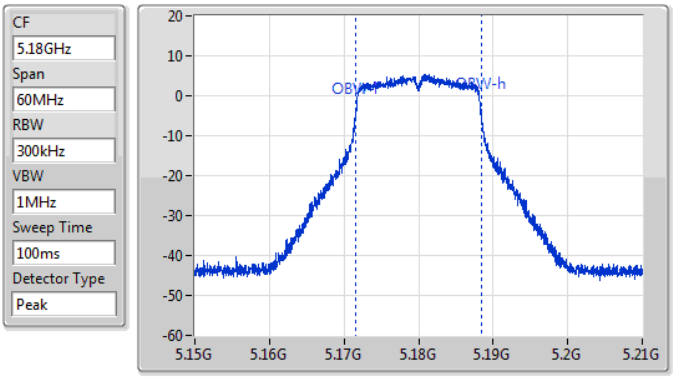
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.25M	16.792M
5200MHz	Pass	Inf	23.85M	16.822M
5240MHz	Pass	Inf	23.31M	16.792M
5260MHz	Pass	Inf	23.73M	16.792M
5300MHz	Pass	Inf	23.58M	16.792M
5320MHz	Pass	Inf	23.52M	16.792M
5500MHz	Pass	Inf	23.76M	16.852M
5580MHz	Pass	Inf	23.73M	16.822M
5700MHz	Pass	Inf	23.25M	16.792M
5745MHz	Pass	500k	15.78M	16.822M
5785MHz	Pass	500k	15.75M	16.822M
5825MHz	Pass	500k	15.24M	16.822M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	24.96M	17.931M
5200MHz	Pass	Inf	25.05M	17.931M
5240MHz	Pass	Inf	24.69M	17.931M
5260MHz	Pass	Inf	25.11M	17.961M
5300MHz	Pass	Inf	24.69M	17.961M
5320MHz	Pass	Inf	24.69M	17.931M
5500MHz	Pass	Inf	24.78M	17.931M
5580MHz	Pass	Inf	25.29M	17.961M
5700MHz	Pass	Inf	25.26M	17.931M
5745MHz	Pass	500k	15.12M	17.961M
5785MHz	Pass	500k	16.5M	17.931M
5825MHz	Pass	500k	15.09M	17.961M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	41.82M	36.582M
5230MHz	Pass	Inf	41.34M	36.522M
5270MHz	Pass	Inf	41.64M	36.582M
5310MHz	Pass	Inf	41.76M	36.522M
5510MHz	Pass	Inf	41.76M	36.522M
5550MHz	Pass	Inf	41.58M	36.582M
5670MHz	Pass	Inf	41.7M	36.522M
5755MHz	Pass	500k	35.94M	36.582M
5795MHz	Pass	500k	35.22M	36.582M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	84.6M	75.922M
5290MHz	Pass	Inf	84.12M	76.162M
5530MHz	Pass	Inf	83.76M	76.162M
5775MHz	Pass	500k	75M	76.162M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX **EBW**

5180MHz

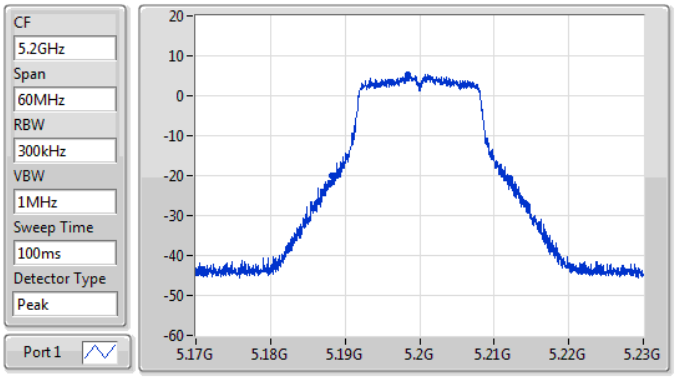


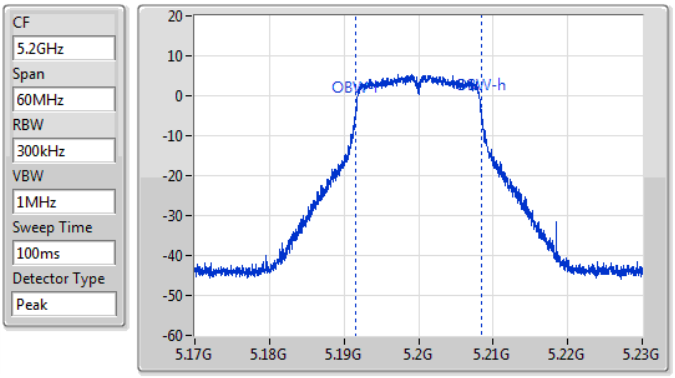


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.25M	5.16851G	5.19176G	16.792M	5.171574G	5.188366G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5200MHz

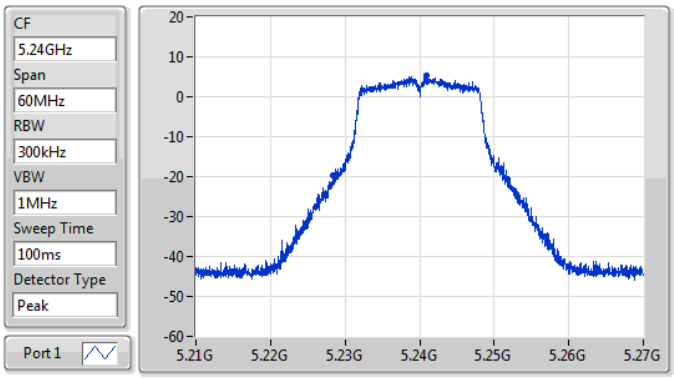


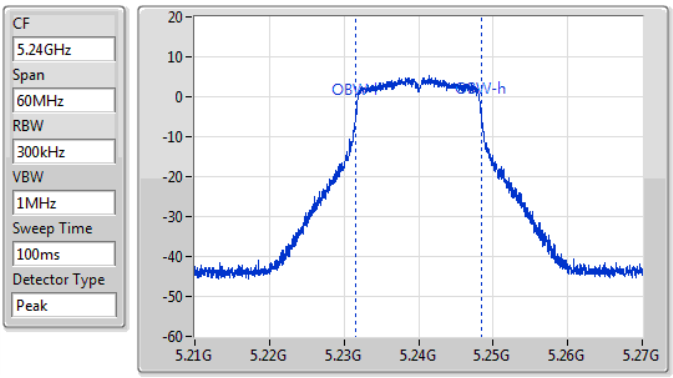


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.85M	5.1883G	5.21215G	16.822M	5.191574G	5.208396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5240MHz

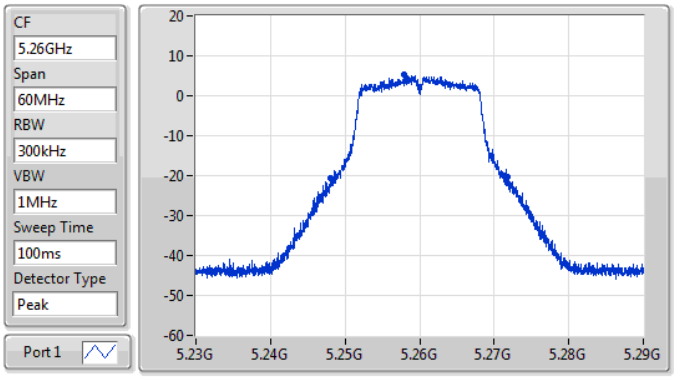


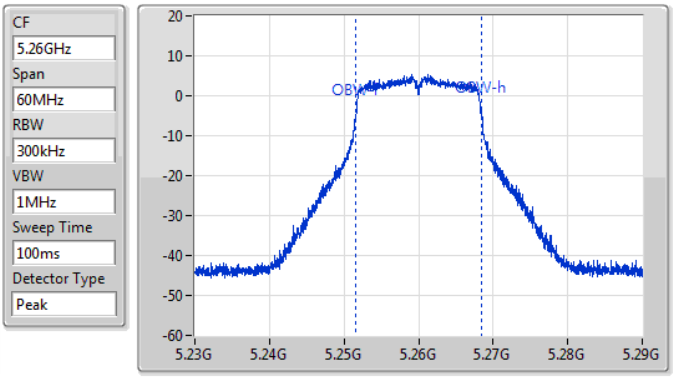


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.31M	5.22839G	5.2517G	16.792M	5.231604G	5.248396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5260MHz

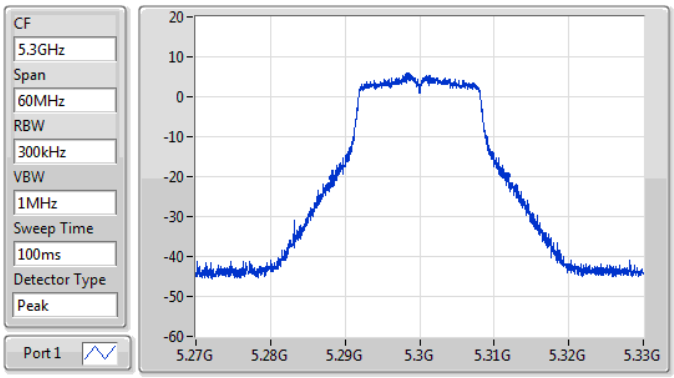


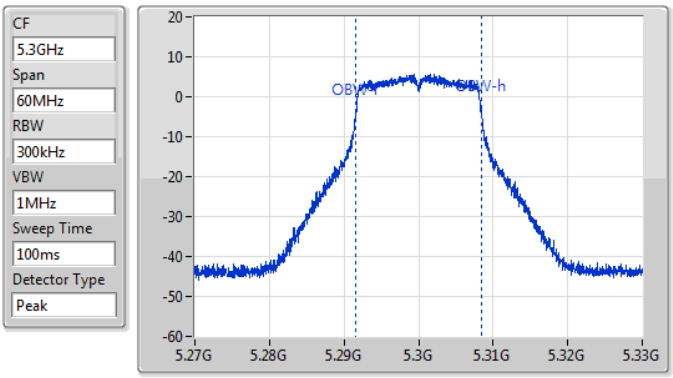


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.73M	5.24812G	5.27185G	16.792M	5.251604G	5.268396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5300MHz

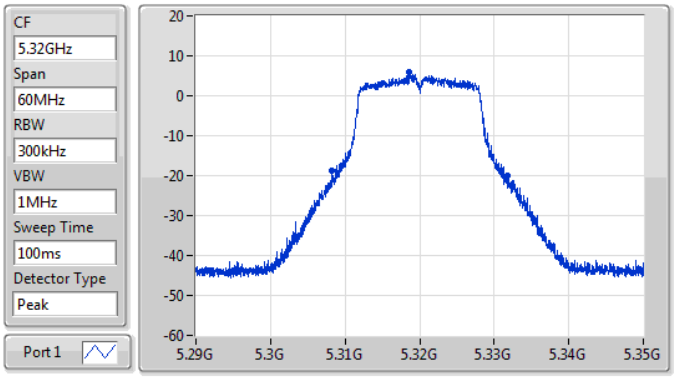


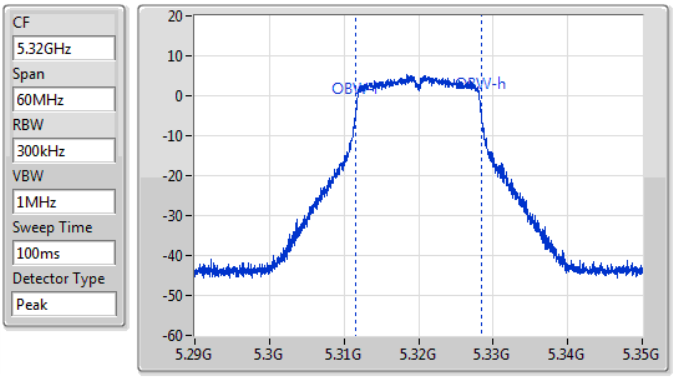


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.58M	5.28824G	5.31182G	16.792M	5.291604G	5.308396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5320MHz

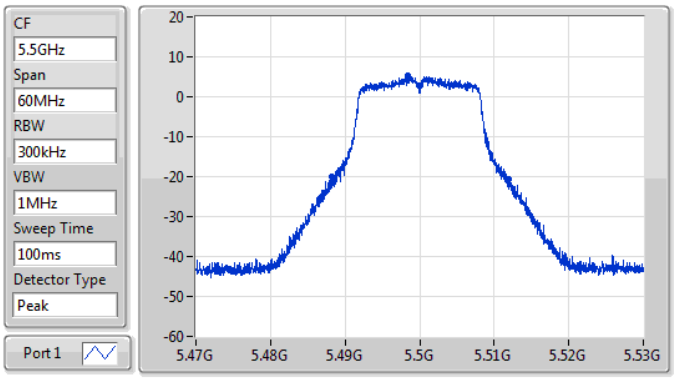


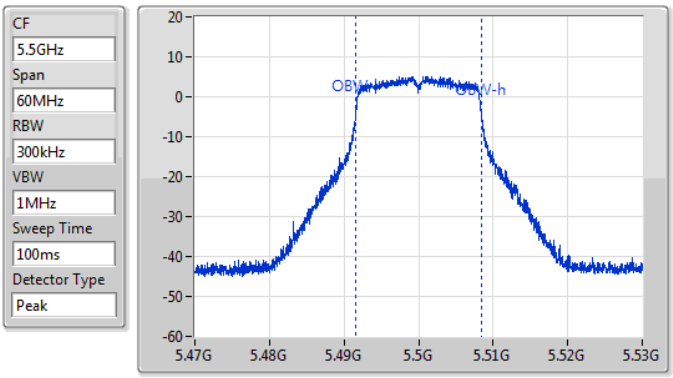


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.52M	5.30824G	5.33176G	16.792M	5.311604G	5.328396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5500MHz

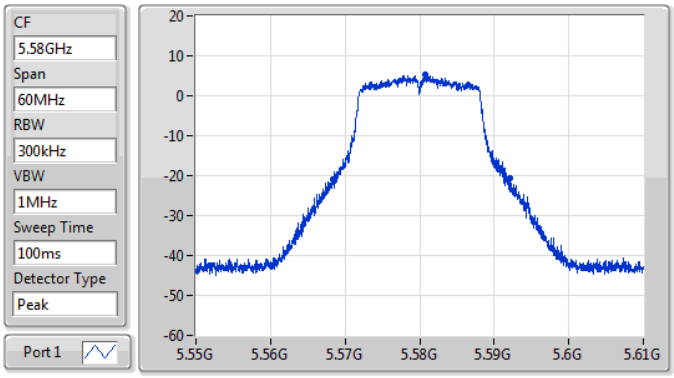


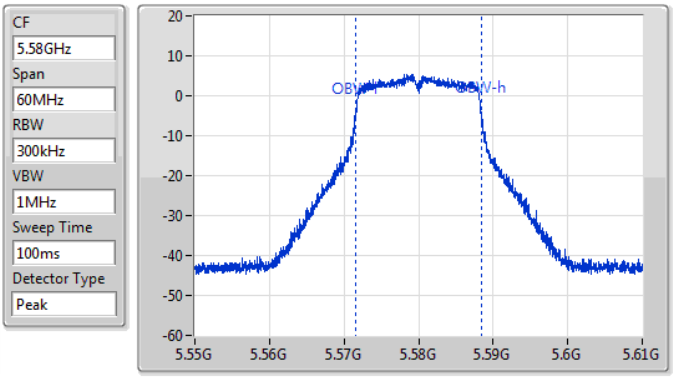


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.76M	5.48827G	5.51203G	16.852M	5.491574G	5.508426G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5580MHz

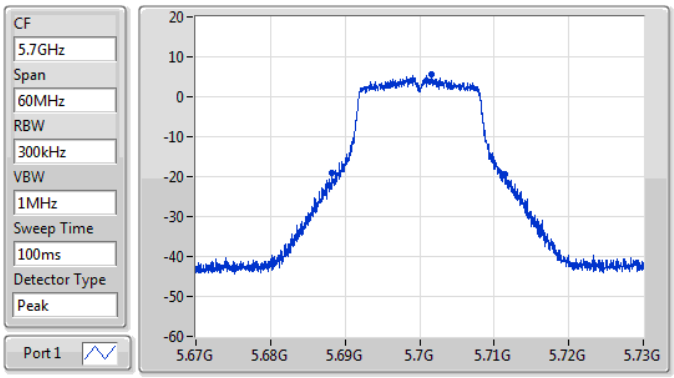


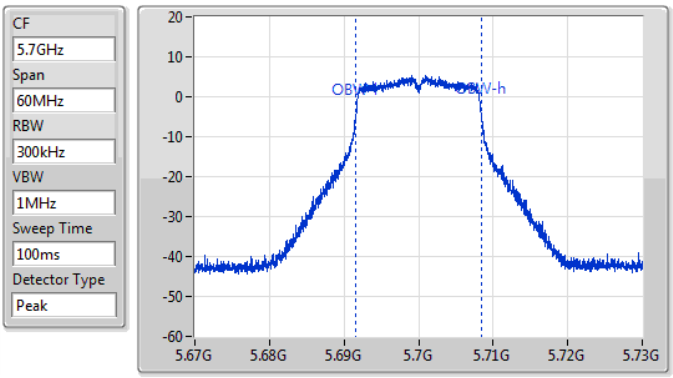


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.73M	5.56833G	5.59206G	16.822M	5.571574G	5.588396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5700MHz

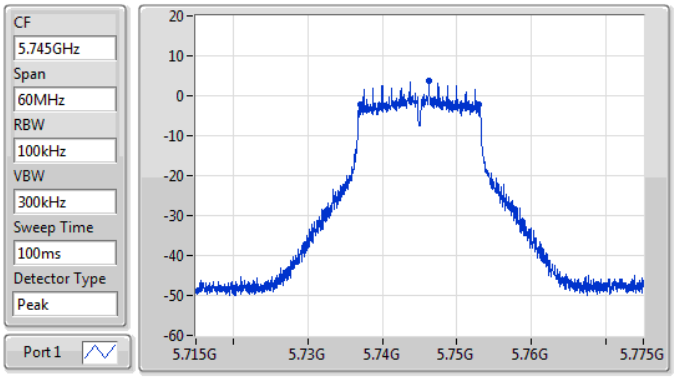


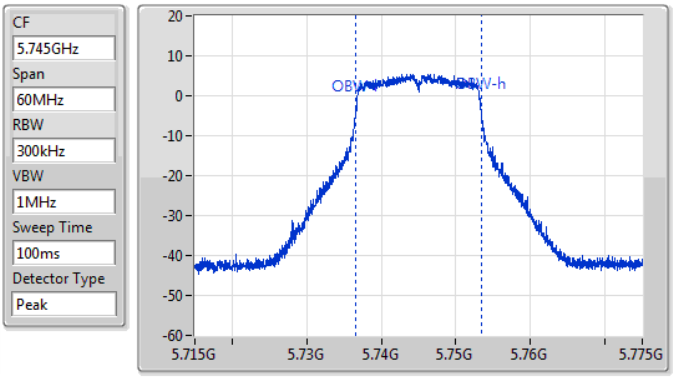


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.25M	5.68827G	5.71152G	16.792M	5.691604G	5.708396G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

5745MHz

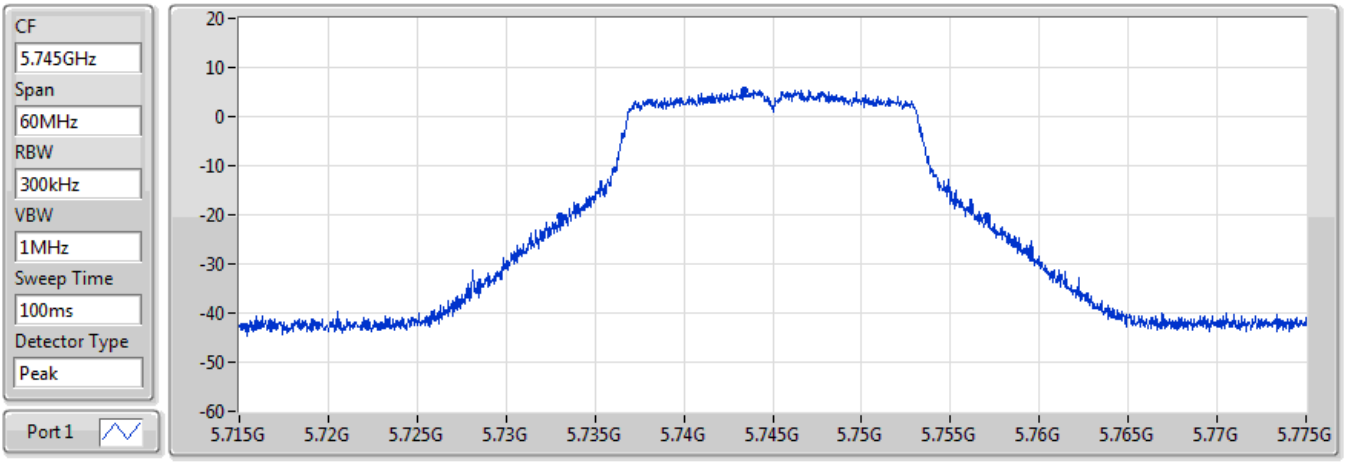




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.78M	5.73708G	5.75286G	16.822M	5.736574G	5.753396G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

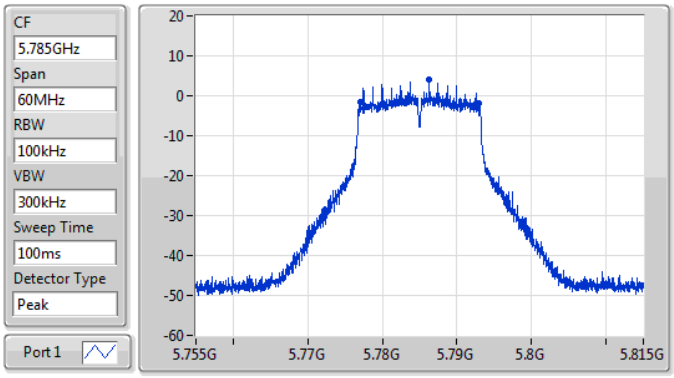
5745MHz

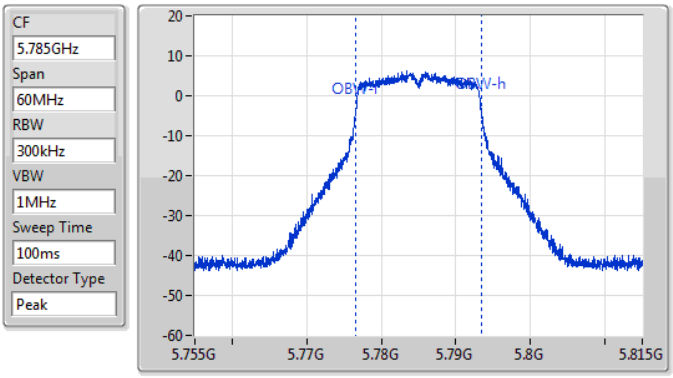


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24M	5.73306G	5.75706G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

5785MHz

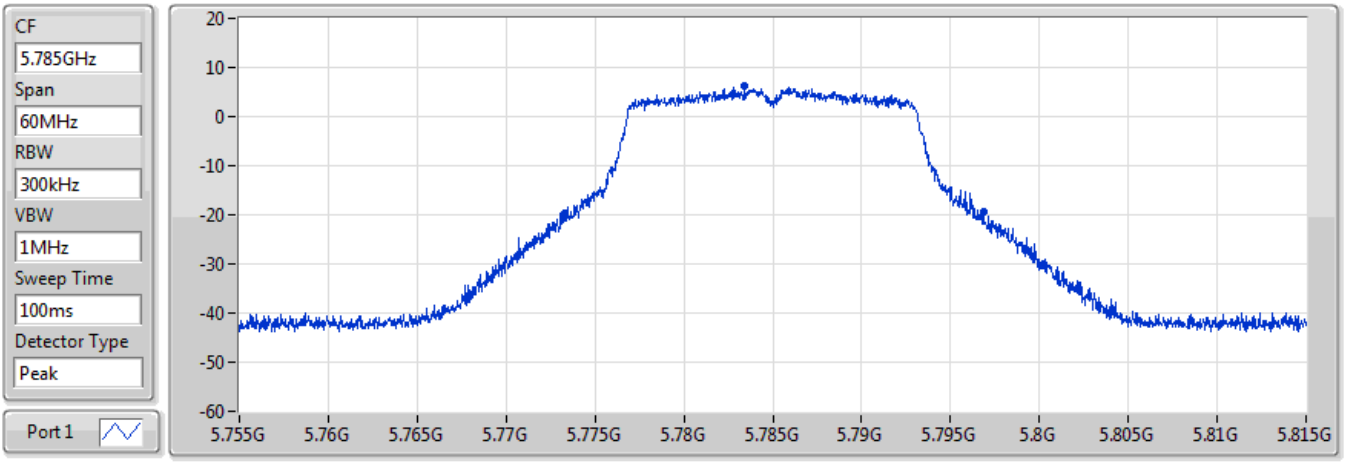




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.75M	5.77711G	5.79286G	16.822M	5.776604G	5.793426G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

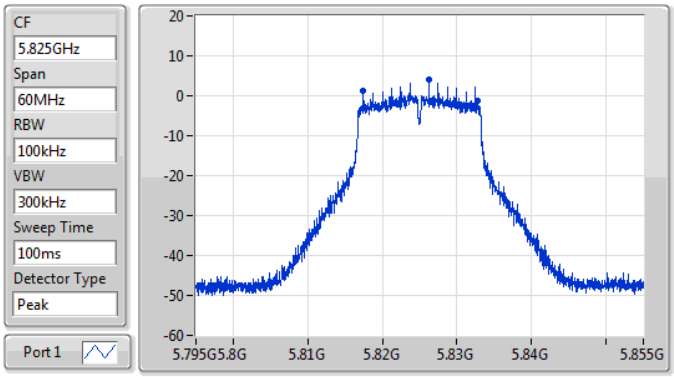
5785MHz

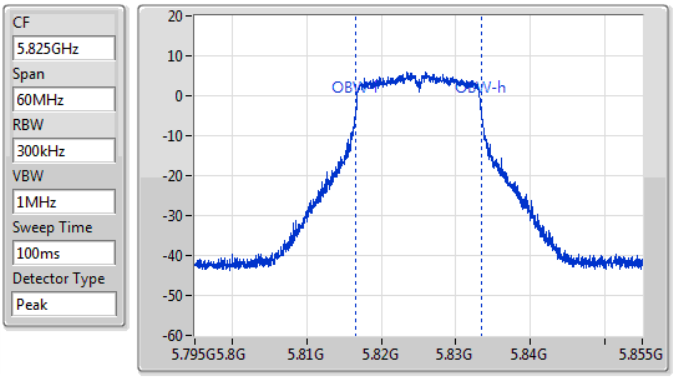


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
23.58M	5.77327G	5.79685G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

5825MHz

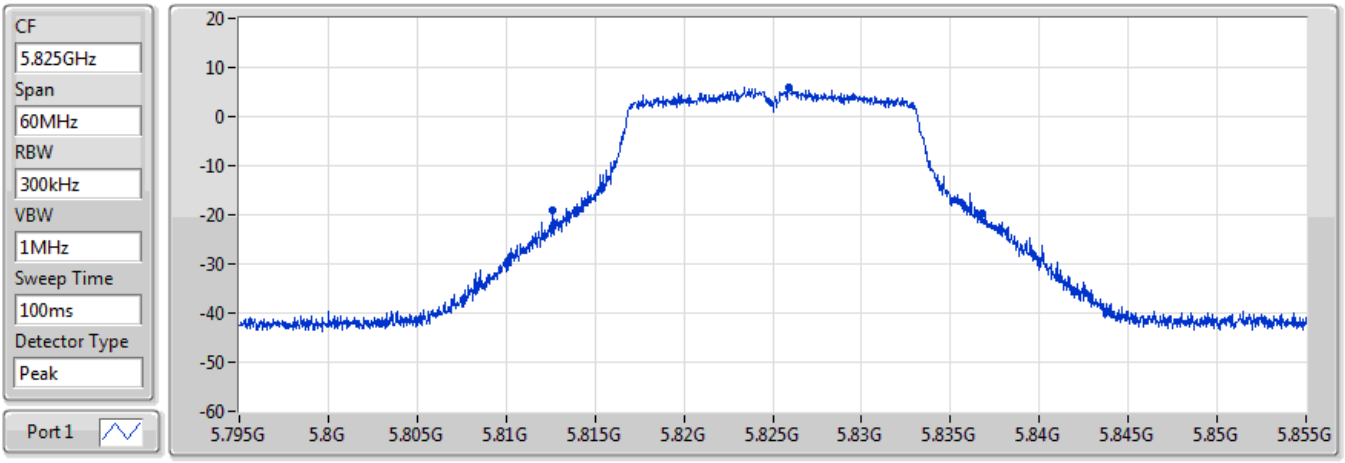




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.24M	5.81747G	5.83271G	16.822M	5.816574G	5.833396G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

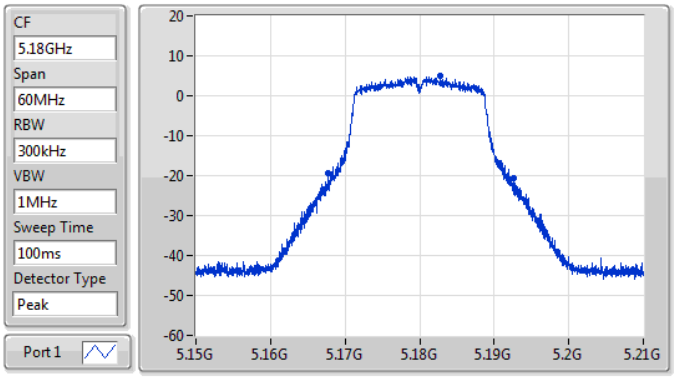
5825MHz

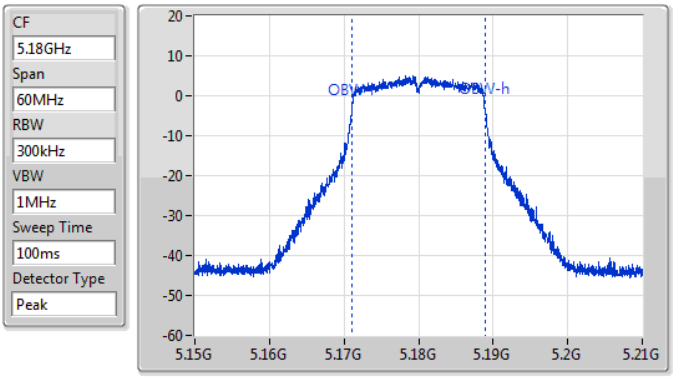


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24.12M	5.81264G	5.83676G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5180MHz

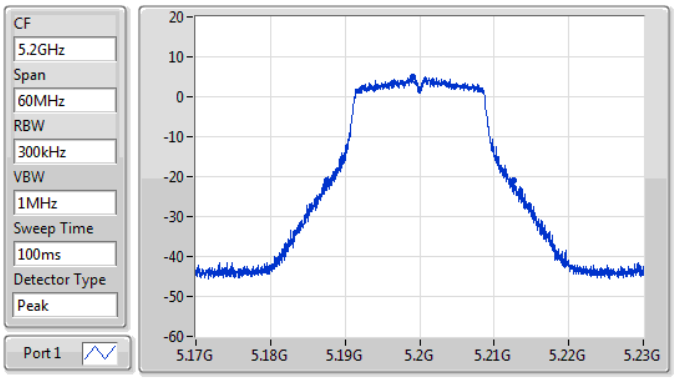


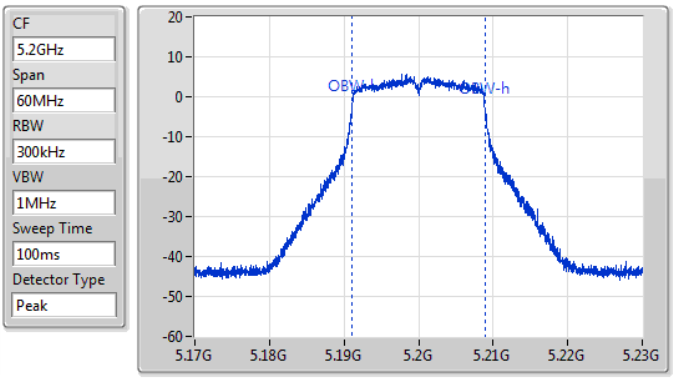


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.96M	5.16773G	5.19269G	17.931M	5.171034G	5.188966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5200MHz

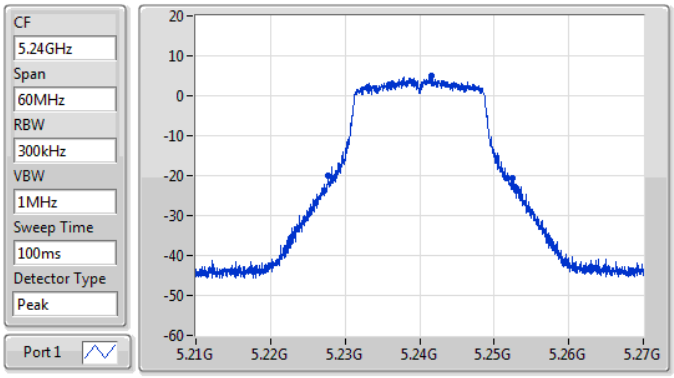


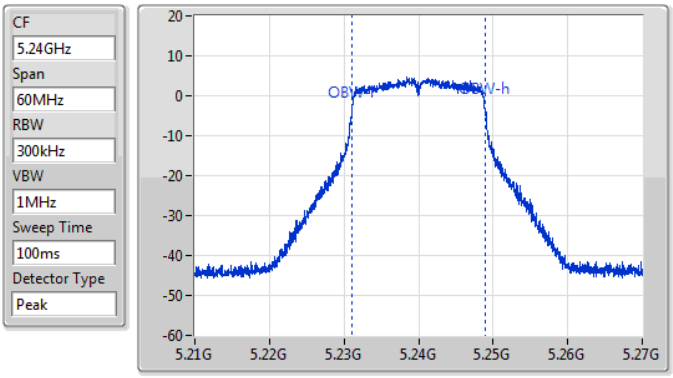


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.05M	5.18749G	5.21254G	17.931M	5.191034G	5.208966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5240MHz

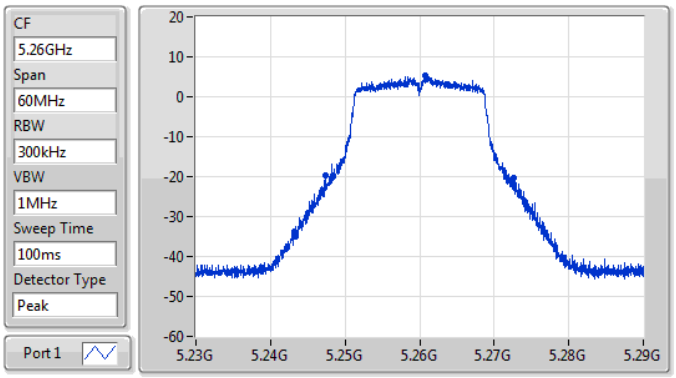


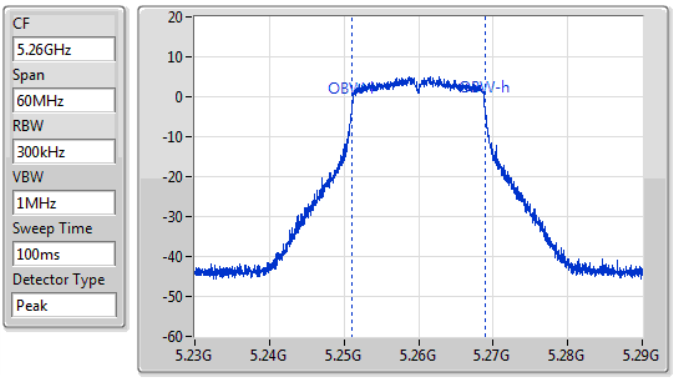


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.69M	5.22773G	5.25242G	17.931M	5.231034G	5.248966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5260MHz

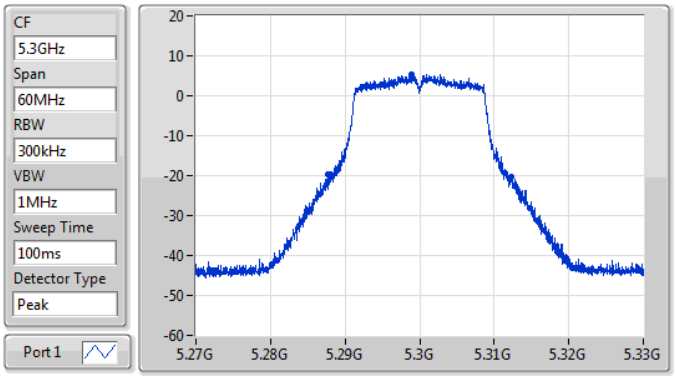


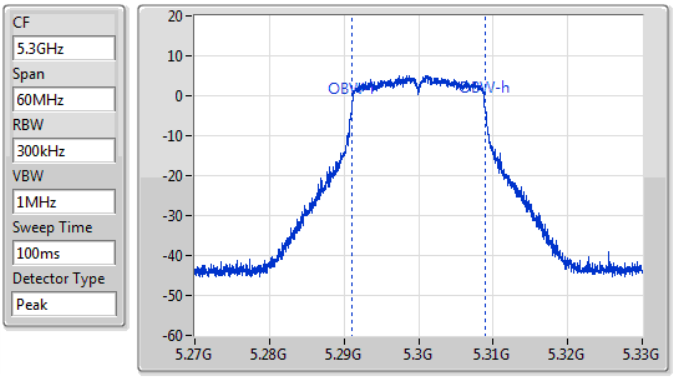


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.11M	5.24743G	5.27254G	17.961M	5.251004G	5.268966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5300MHz

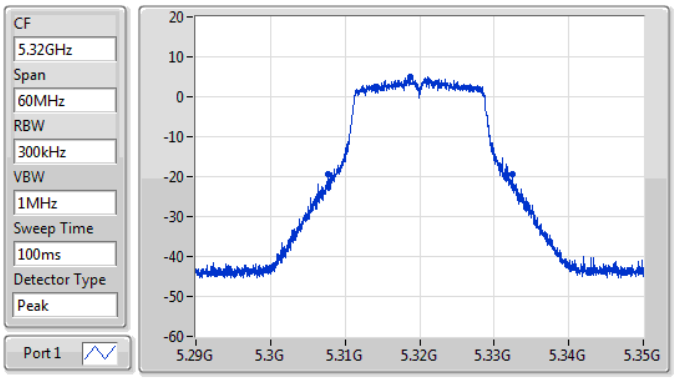


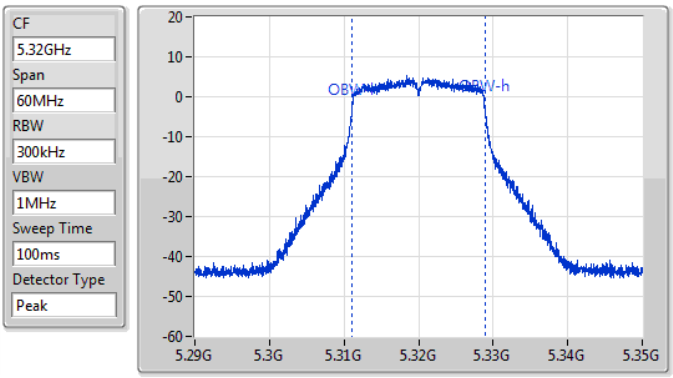


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.69M	5.28764G	5.31233G	17.961M	5.291004G	5.308966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5320MHz

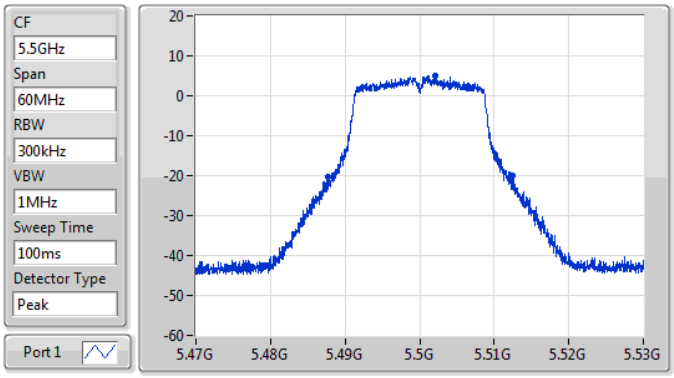


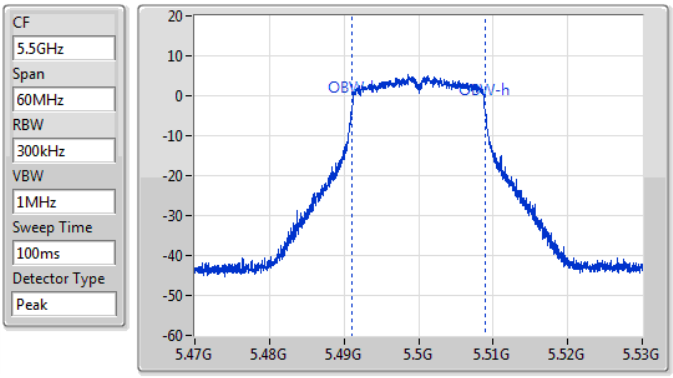


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.69M	5.30773G	5.33242G	17.931M	5.311034G	5.328966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5500MHz

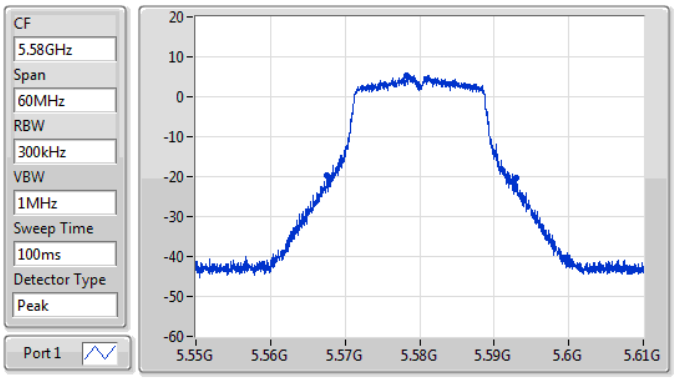


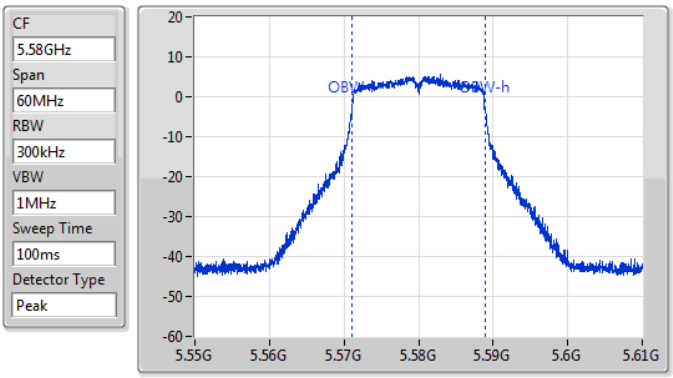


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.78M	5.48773G	5.51251G	17.931M	5.491034G	5.508966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5580MHz

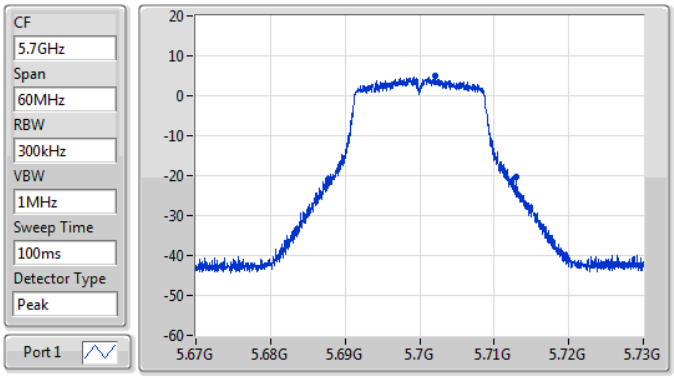


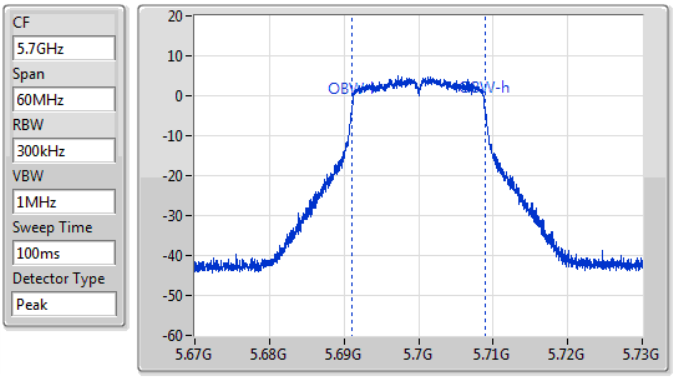


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.29M	5.56758G	5.59287G	17.961M	5.571004G	5.588966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5700MHz

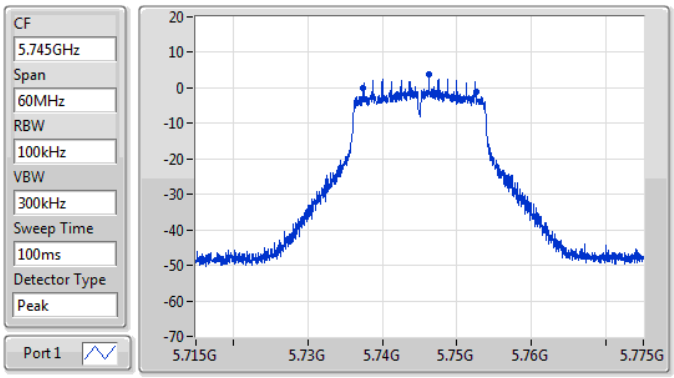


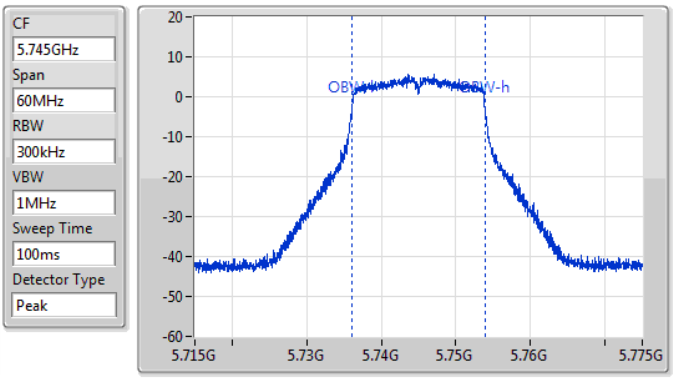


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.26M	5.68764G	5.7129G	17.931M	5.691034G	5.708966G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5745MHz

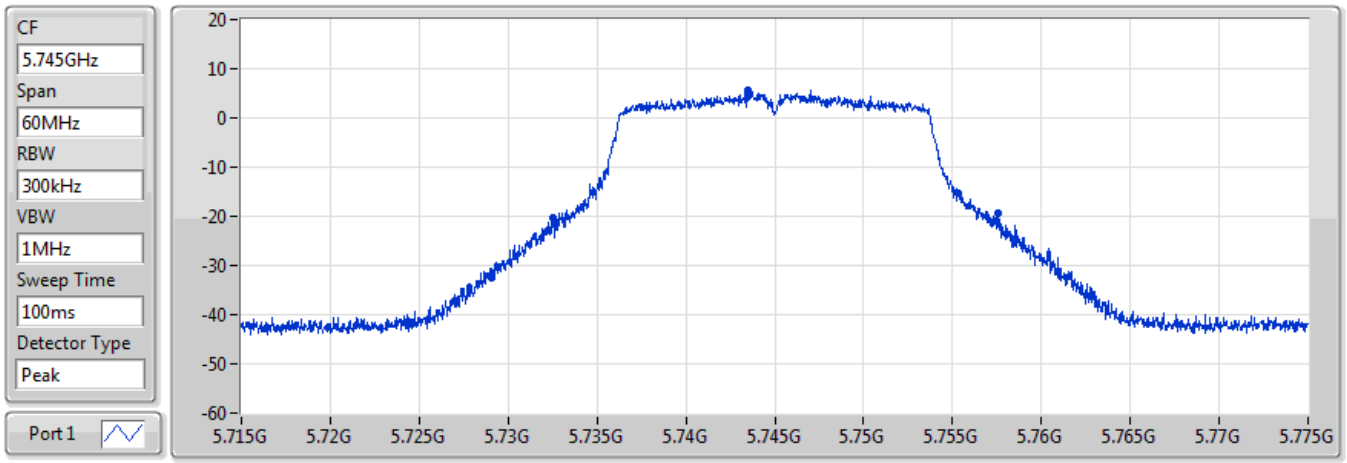




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.12M	5.73744G	5.75256G	17.961M	5.736004G	5.753966G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

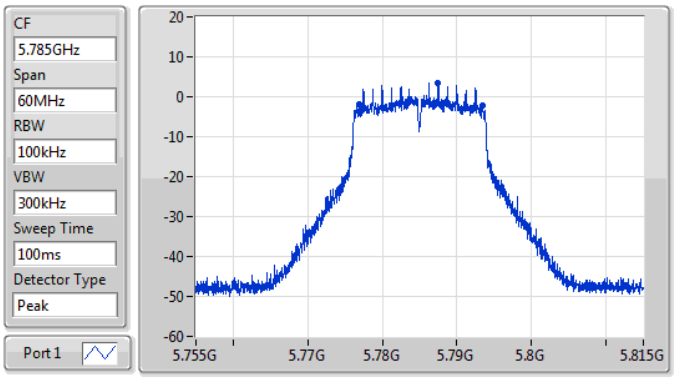
5745MHz

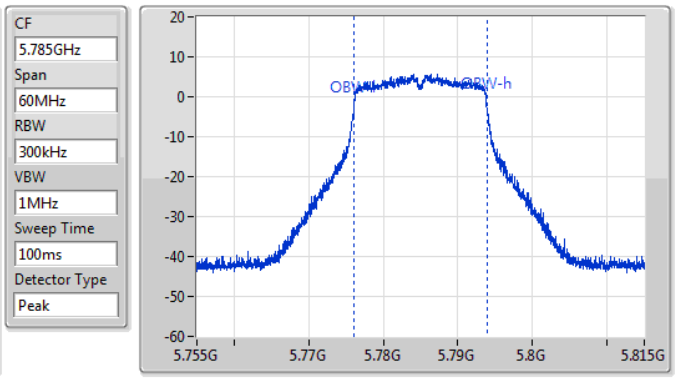


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
25.02M	5.73255G	5.75757G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5785MHz

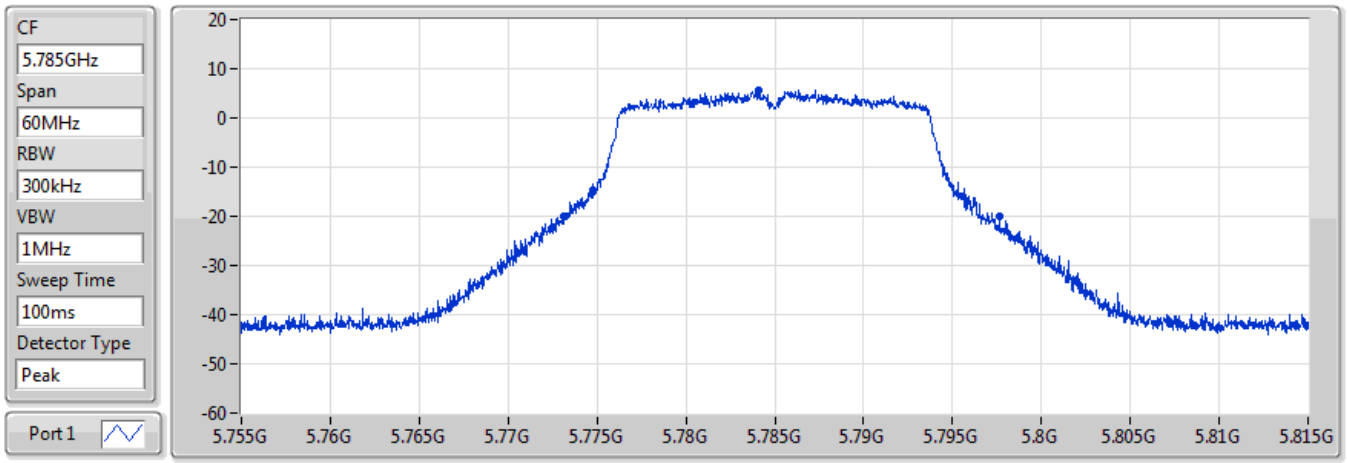




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	5.77687G	5.79337G	17.931M	5.776034G	5.793966G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

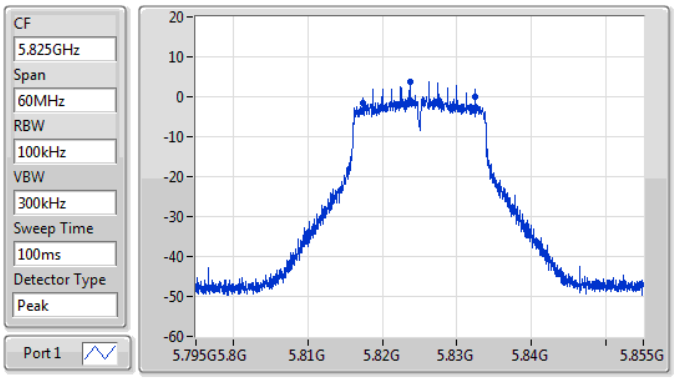
5785MHz

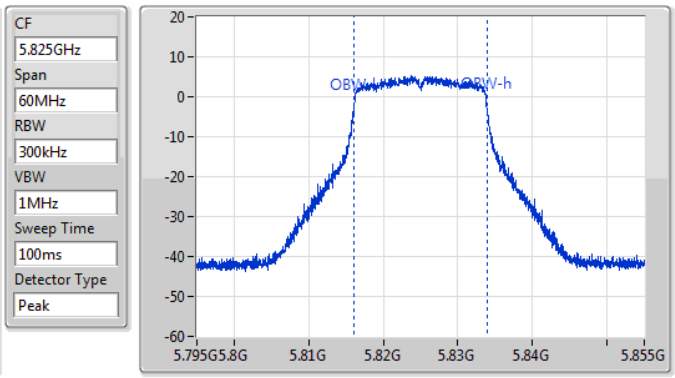


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24.57M	5.77309G	5.79766G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5825MHz

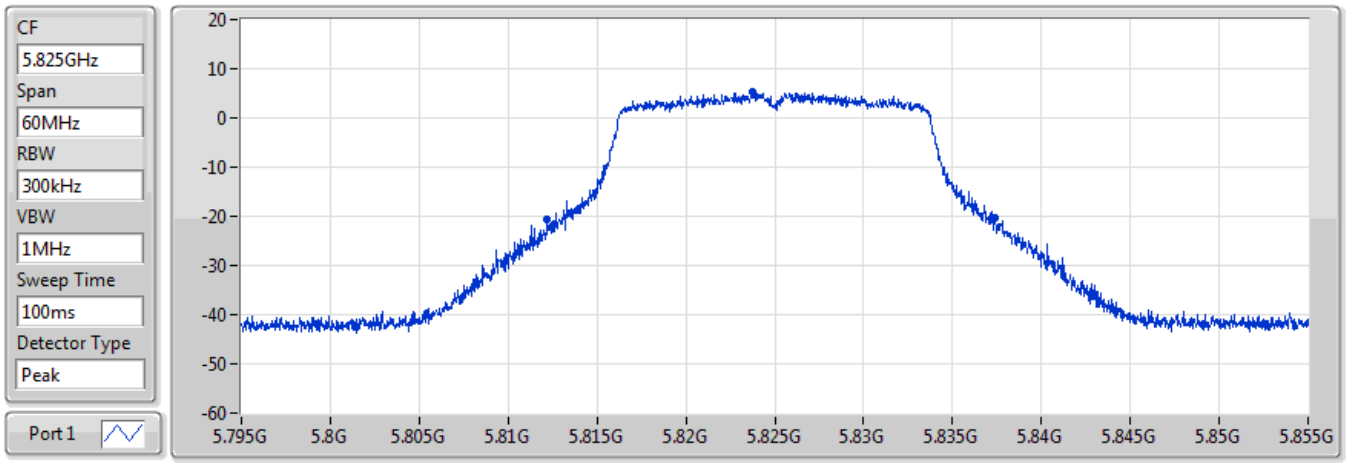




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.09M	5.81741G	5.8325G	17.961M	5.816004G	5.833966G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

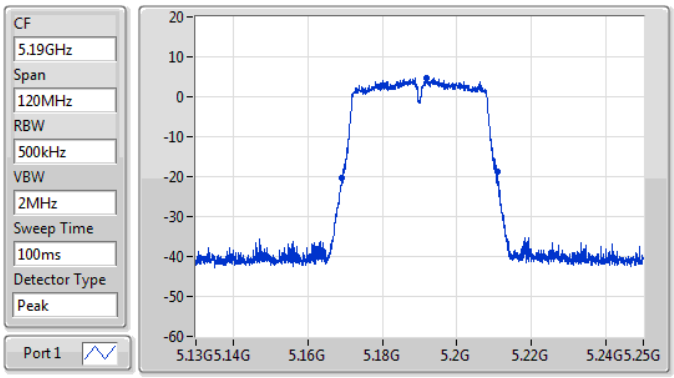
5825MHz

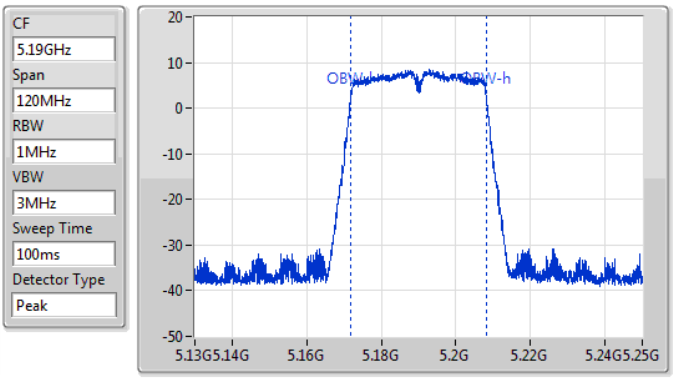


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
25.2M	5.81222G	5.83742G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5190MHz

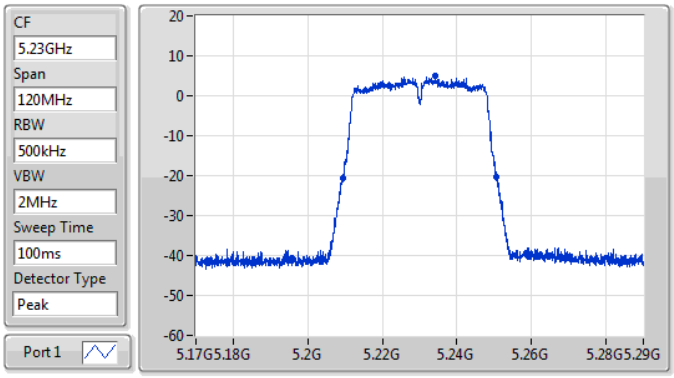


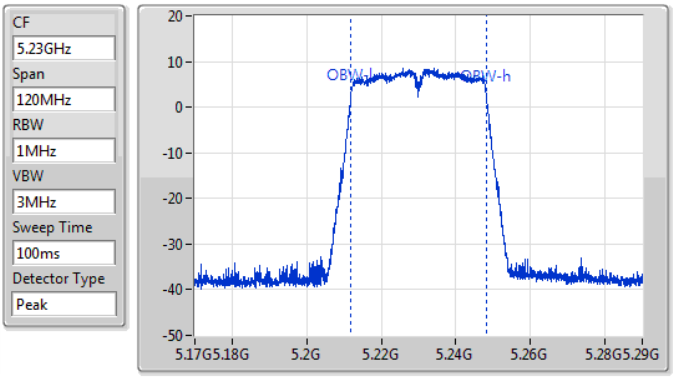


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.82M	5.16918G	5.211G	36.582M	5.171709G	5.208291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5230MHz

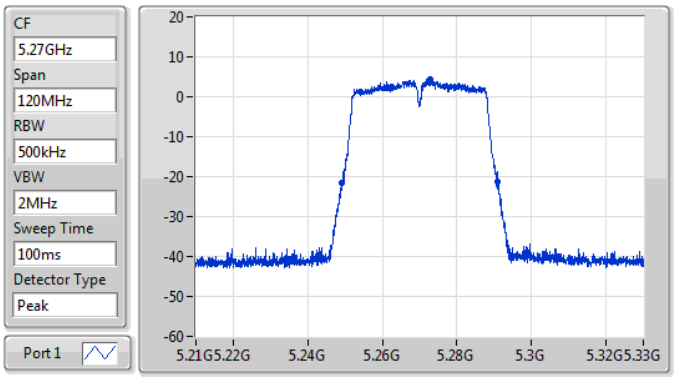


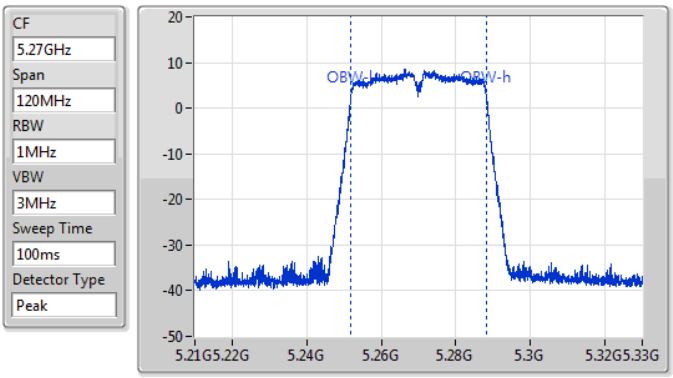


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.34M	5.20936G	5.2507G	36.522M	5.211769G	5.248291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5270MHz

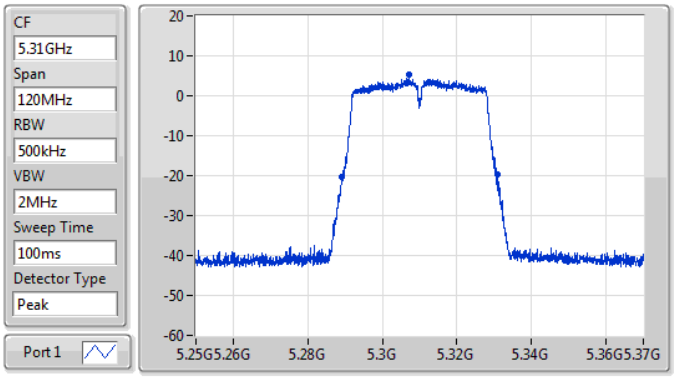


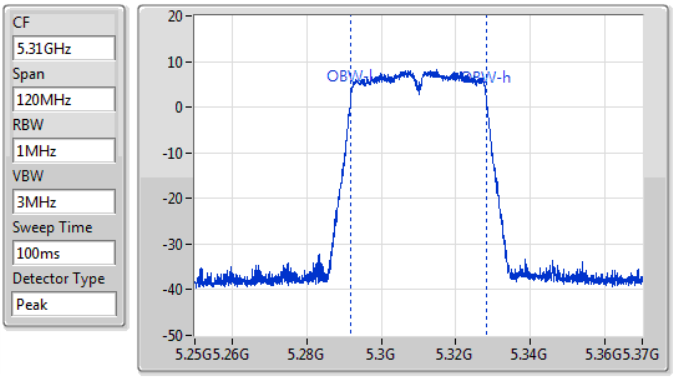


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.64M	5.24924G	5.29088G	36.582M	5.251709G	5.288291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5310MHz

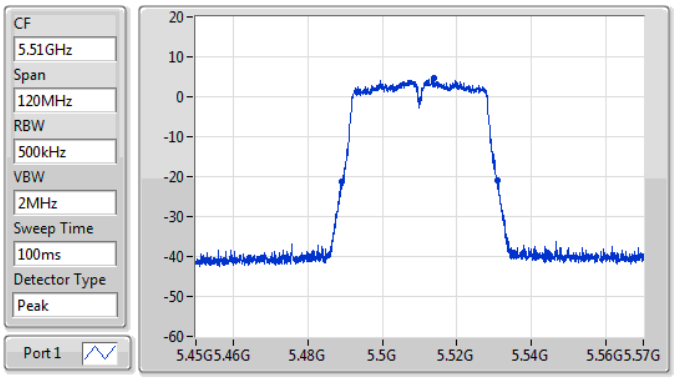


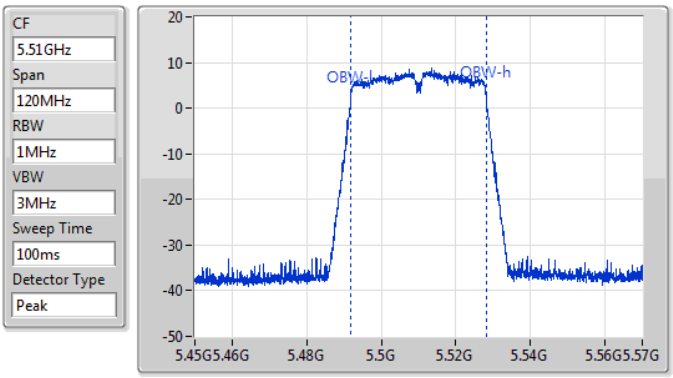


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.76M	5.28906G	5.33082G	36.522M	5.291769G	5.328291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5510MHz

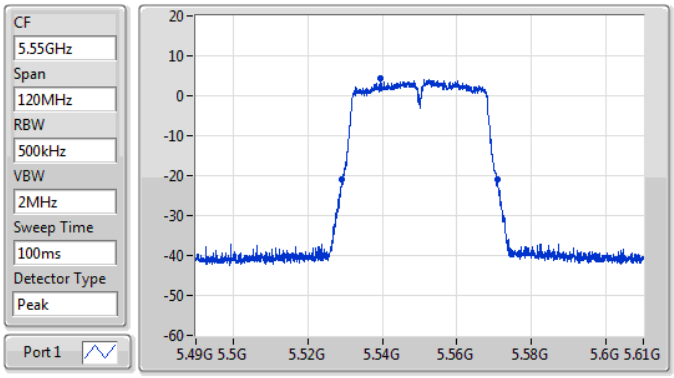


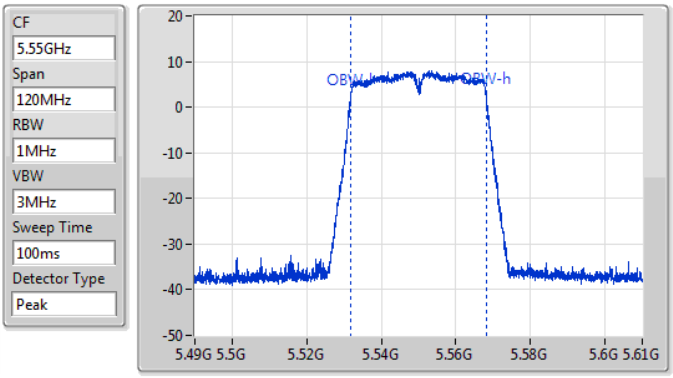


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.76M	5.48912G	5.53088G	36.522M	5.491709G	5.528231G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5550MHz

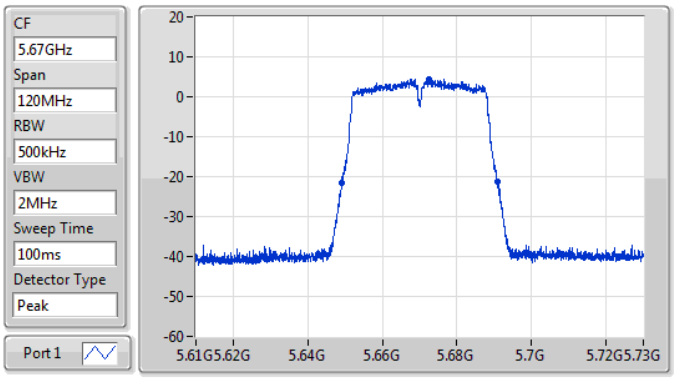


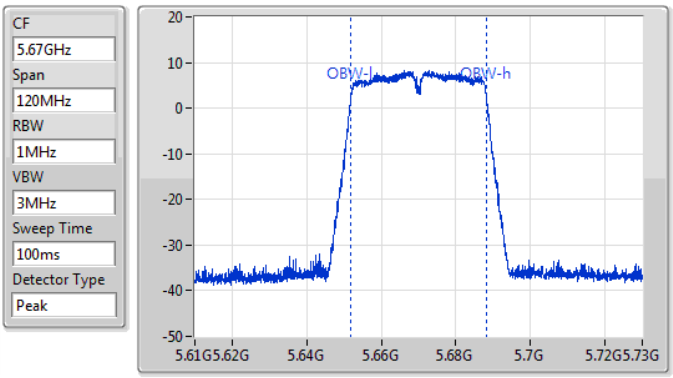


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.58M	5.52924G	5.57082G	36.582M	5.531709G	5.568291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5670MHz

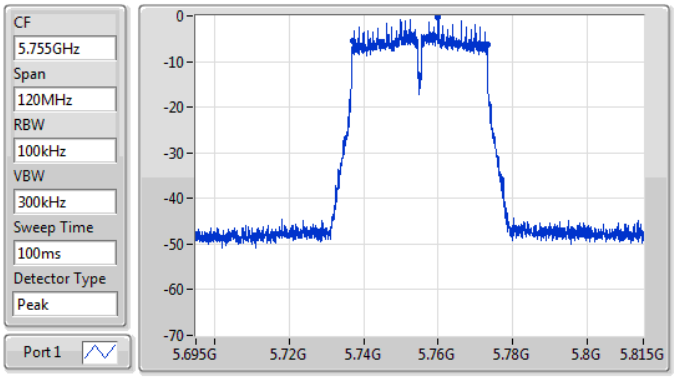


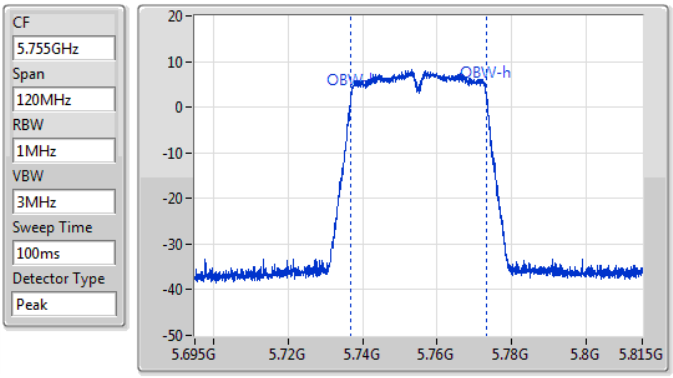


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.7M	5.64912G	5.69082G	36.522M	5.651769G	5.688291G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5755MHz

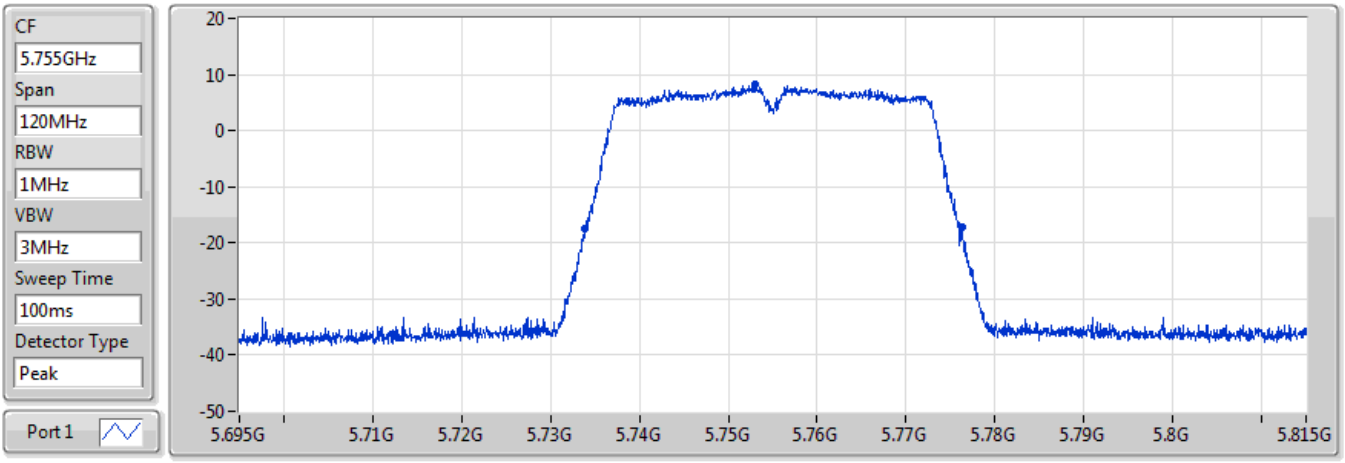




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.94M	5.73718G	5.77312G	36.582M	5.736709G	5.773291G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

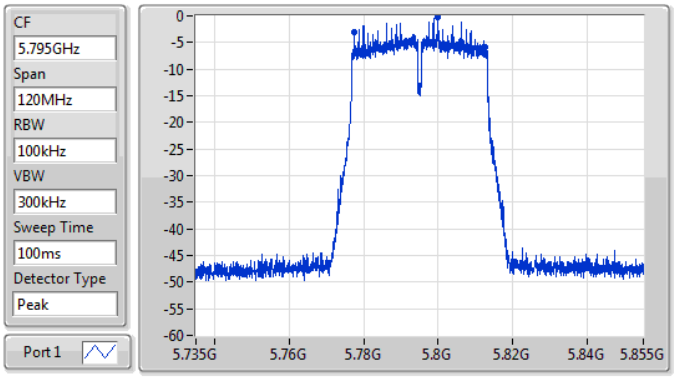
5755MHz

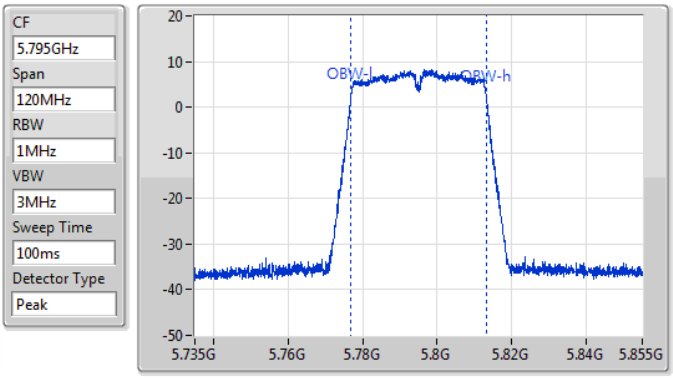


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
42.36M	5.73388G	5.77624G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5795MHz

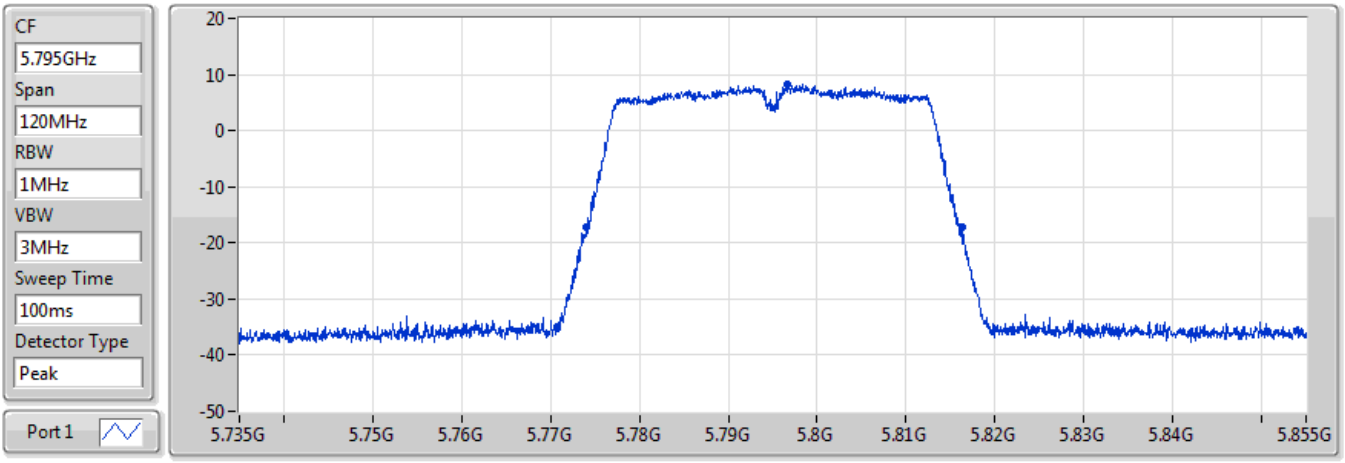




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.22M	5.77748G	5.8127G	36.582M	5.776709G	5.813291G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

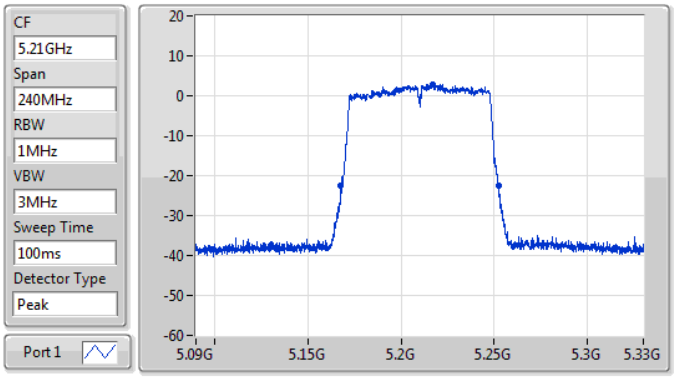
5795MHz

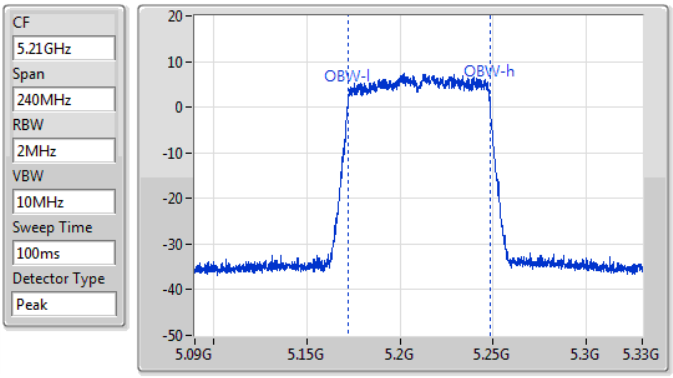


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
42.36M	5.774G	5.81636G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5210MHz

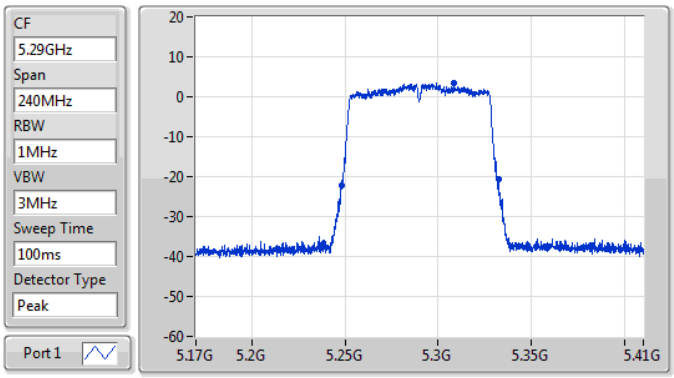


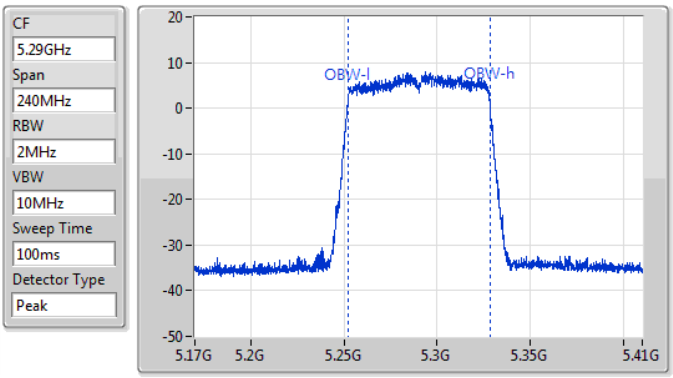


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.6M	5.16788G	5.25248G	75.922M	5.172219G	5.248141G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5290MHz

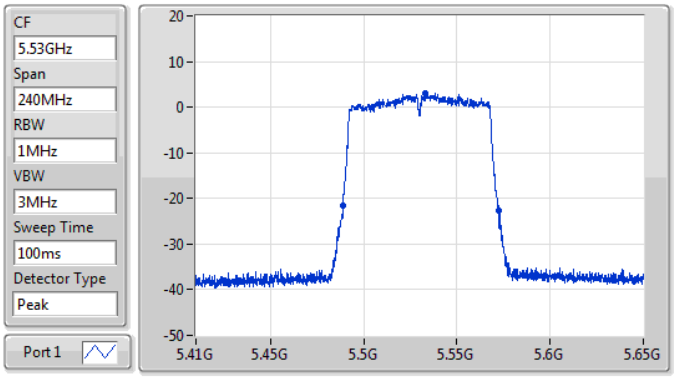


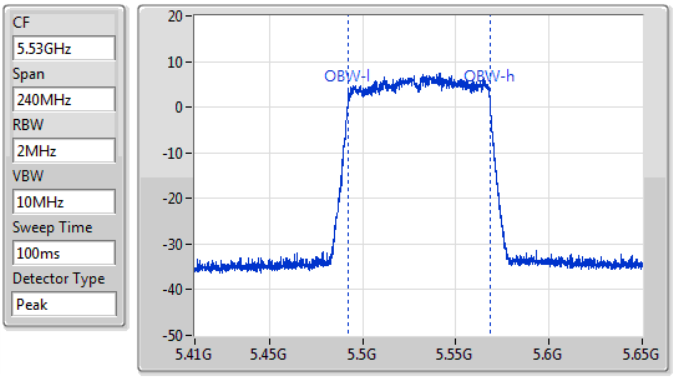


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.12M	5.248G	5.33212G	76.162M	5.251979G	5.328141G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5530MHz

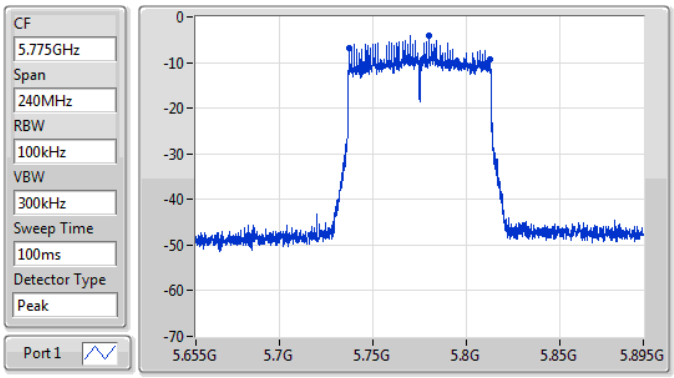


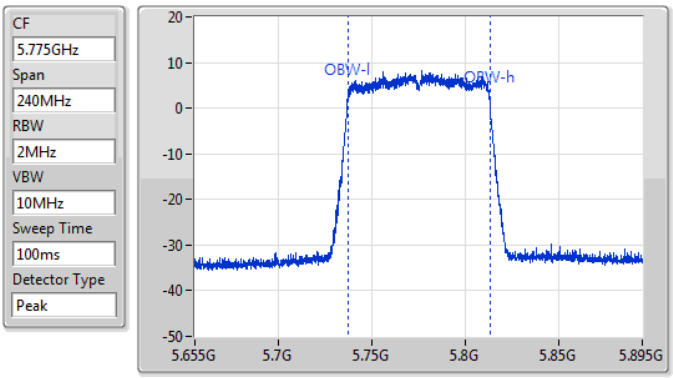


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.76M	5.48872G	5.57248G	76.162M	5.492099G	5.568261G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5775MHz

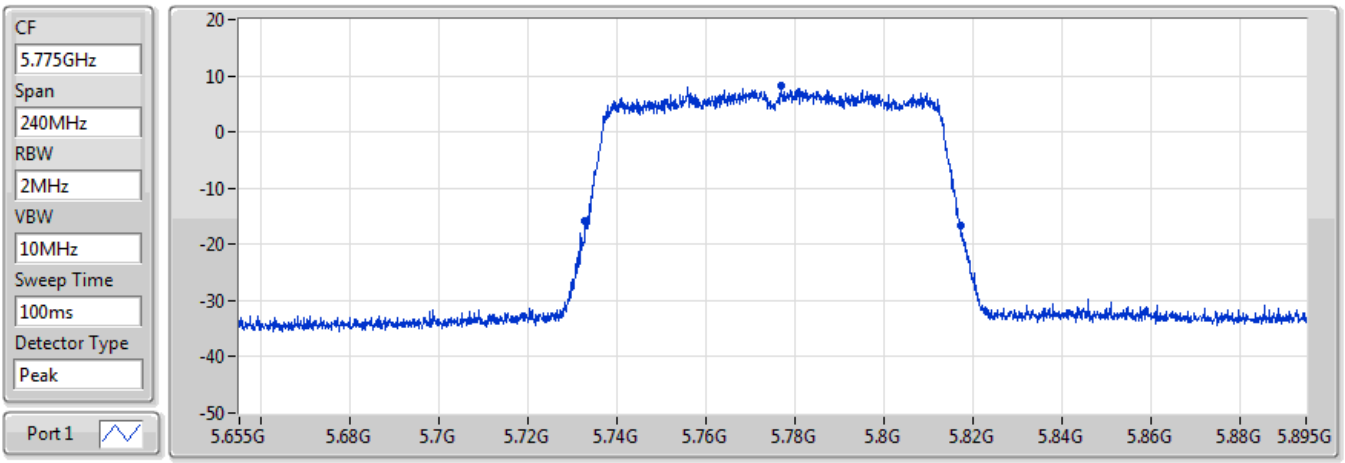




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75M	5.73744G	5.81244G	76.162M	5.736979G	5.813141G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5775MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
84.48M	5.73276G	5.81724G	Inf	1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	13.48	0.02228	16.73	0.04710
802.11ac VHT20_Nss1,(MCS0)_1TX	13.25	0.02113	16.50	0.04467
802.11ac VHT40_Nss1,(MCS0)_1TX	13.49	0.02234	16.74	0.04721
802.11ac VHT80_Nss1,(MCS0)_1TX	11.37	0.01371	14.62	0.02897
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	13.47	0.02223	16.96	0.04966
802.11ac VHT20_Nss1,(MCS0)_1TX	13.47	0.02223	16.96	0.04966
802.11ac VHT40_Nss1,(MCS0)_1TX	13.41	0.02193	16.90	0.04898
802.11ac VHT80_Nss1,(MCS0)_1TX	11.45	0.01396	14.94	0.03119
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	13.43	0.02203	17.16	0.05200
802.11ac VHT20_Nss1,(MCS0)_1TX	13.28	0.02128	17.01	0.05023
802.11ac VHT40_Nss1,(MCS0)_1TX	13.47	0.02223	17.20	0.05248
802.11ac VHT80_Nss1,(MCS0)_1TX	11.34	0.01361	15.07	0.03214
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	13.49	0.02234	17.46	0.05572
802.11ac VHT20_Nss1,(MCS0)_1TX	13.47	0.02223	17.44	0.05546
802.11ac VHT40_Nss1,(MCS0)_1TX	13.42	0.02198	17.39	0.05483
802.11ac VHT80_Nss1,(MCS0)_1TX	11.31	0.01352	15.28	0.03373

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.25	13.14	13.14	30.00	16.39	36.00
5200MHz	Pass	3.25	13.48	13.48	30.00	16.73	36.00
5240MHz	Pass	3.25	13.15	13.15	30.00	16.40	36.00
5260MHz	Pass	3.49	13.12	13.12	24.00	16.61	30.00
5300MHz	Pass	3.49	13.47	13.47	24.00	16.96	30.00
5320MHz	Pass	3.49	13.37	13.37	24.00	16.86	30.00
5500MHz	Pass	3.73	13.11	13.11	24.00	16.84	30.00
5580MHz	Pass	3.73	13.43	13.43	24.00	17.16	30.00
5700MHz	Pass	3.73	13.09	13.09	24.00	16.82	30.00
5745MHz	Pass	3.97	13.41	13.41	30.00	17.38	36.00
5785MHz	Pass	3.97	13.39	13.39	30.00	17.36	36.00
5825MHz	Pass	3.97	13.49	13.49	30.00	17.46	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.25	13.03	13.03	30.00	16.28	36.00
5200MHz	Pass	3.25	13.25	13.25	30.00	16.50	36.00
5240MHz	Pass	3.25	13.05	13.05	30.00	16.30	36.00
5260MHz	Pass	3.49	13.43	13.43	24.00	16.92	30.00
5300MHz	Pass	3.49	13.47	13.47	24.00	16.96	30.00
5320MHz	Pass	3.49	13.25	13.25	24.00	16.74	30.00
5500MHz	Pass	3.73	13.06	13.06	24.00	16.79	30.00
5580MHz	Pass	3.73	13.28	13.28	24.00	17.01	30.00
5700MHz	Pass	3.73	13.06	13.06	24.00	16.79	30.00
5745MHz	Pass	3.97	13.45	13.45	30.00	17.42	36.00
5785MHz	Pass	3.97	13.34	13.34	30.00	17.31	36.00
5825MHz	Pass	3.97	13.47	13.47	30.00	17.44	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.25	13.49	13.49	30.00	16.74	36.00
5230MHz	Pass	3.25	13.43	13.43	30.00	16.68	36.00
5270MHz	Pass	3.49	13.36	13.36	24.00	16.85	30.00
5310MHz	Pass	3.49	13.41	13.41	24.00	16.90	30.00
5510MHz	Pass	3.73	13.47	13.47	24.00	17.20	30.00
5550MHz	Pass	3.73	13.4	13.40	24.00	17.13	30.00
5670MHz	Pass	3.73	13.29	13.29	24.00	17.02	30.00
5755MHz	Pass	3.97	13.21	13.21	30.00	17.18	36.00
5795MHz	Pass	3.97	13.42	13.42	30.00	17.39	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.25	11.37	11.37	30.00	14.62	36.00
5290MHz	Pass	3.49	11.45	11.45	24.00	14.94	30.00
5530MHz	Pass	3.73	11.34	11.34	24.00	15.07	30.00
5775MHz	Pass	3.97	11.31	11.31	30.00	15.28	36.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	1.46	4.71
802.11ac VHT20_Nss1,(MCS0)_1TX	0.95	4.20
802.11ac VHT40_Nss1,(MCS0)_1TX	-1.79	1.46
802.11ac VHT80_Nss1,(MCS0)_1TX	-7.24	-3.99
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	1.59	5.08
802.11ac VHT20_Nss1,(MCS0)_1TX	1.17	4.66
802.11ac VHT40_Nss1,(MCS0)_1TX	-1.97	1.52
802.11ac VHT80_Nss1,(MCS0)_1TX	-7.00	-3.51
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	1.20	4.93
802.11ac VHT20_Nss1,(MCS0)_1TX	1.27	5.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-1.87	1.86
802.11ac VHT80_Nss1,(MCS0)_1TX	-7.30	-3.57
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	0.27	4.24
802.11ac VHT20_Nss1,(MCS0)_1TX	-0.04	3.93
802.11ac VHT40_Nss1,(MCS0)_1TX	-3.57	0.40
802.11ac VHT80_Nss1,(MCS0)_1TX	-8.19	-4.22

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

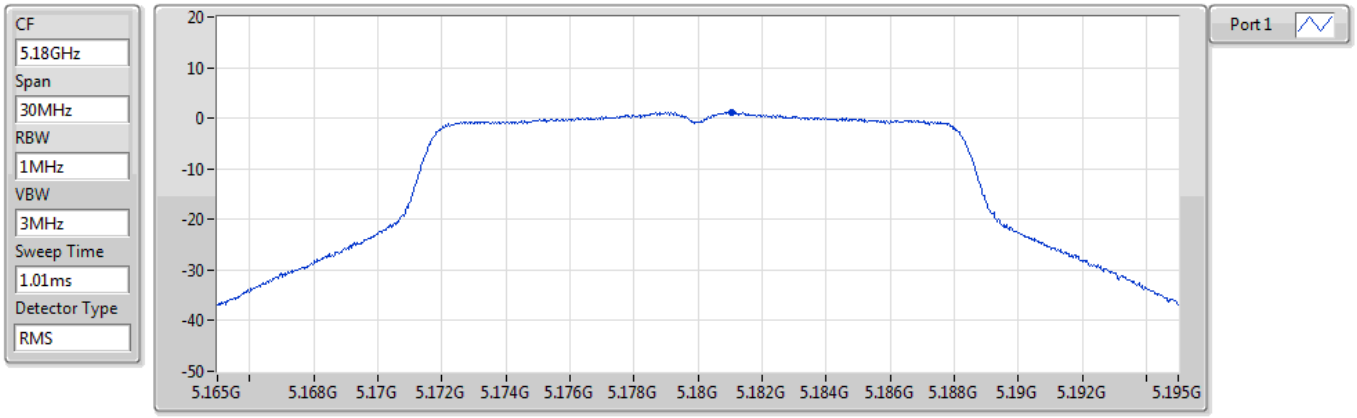
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.25	1.25	1.25	17.00	4.50	23.00
5200MHz	Pass	3.25	1.46	1.46	17.00	4.71	23.00
5240MHz	Pass	3.25	1.00	1.00	17.00	4.25	23.00
5260MHz	Pass	3.49	0.88	0.88	11.00	4.37	17.00
5300MHz	Pass	3.49	1.59	1.59	11.00	5.08	17.00
5320MHz	Pass	3.49	1.31	1.31	11.00	4.80	17.00
5500MHz	Pass	3.73	1.20	1.20	11.00	4.93	17.00
5580MHz	Pass	3.73	1.07	1.07	11.00	4.80	17.00
5700MHz	Pass	3.73	1.05	1.05	11.00	4.78	17.00
5745MHz	Pass	3.97	-0.04	-0.04	30.00	3.93	36.00
5785MHz	Pass	3.97	0.27	0.27	30.00	4.24	36.00
5825MHz	Pass	3.97	0.16	0.16	30.00	4.13	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.25	0.85	0.85	17.00	4.10	23.00
5200MHz	Pass	3.25	0.95	0.95	17.00	4.20	23.00
5240MHz	Pass	3.25	0.54	0.54	17.00	3.79	23.00
5260MHz	Pass	3.49	1.08	1.08	11.00	4.57	17.00
5300MHz	Pass	3.49	1.17	1.17	11.00	4.66	17.00
5320MHz	Pass	3.49	0.78	0.78	11.00	4.27	17.00
5500MHz	Pass	3.73	0.89	0.89	11.00	4.62	17.00
5580MHz	Pass	3.73	1.27	1.27	11.00	5.00	17.00
5700MHz	Pass	3.73	0.70	0.70	11.00	4.43	17.00
5745MHz	Pass	3.97	-0.30	-0.30	30.00	3.67	36.00
5785MHz	Pass	3.97	-0.05	-0.05	30.00	3.92	36.00
5825MHz	Pass	3.97	-0.04	-0.04	30.00	3.93	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.25	-1.87	-1.87	17.00	1.38	23.00
5230MHz	Pass	3.25	-1.79	-1.79	17.00	1.46	23.00
5270MHz	Pass	3.49	-2.13	-2.13	11.00	1.36	17.00
5310MHz	Pass	3.49	-1.97	-1.97	11.00	1.52	17.00
5510MHz	Pass	3.73	-2.03	-2.03	11.00	1.70	17.00
5550MHz	Pass	3.73	-2.17	-2.17	11.00	1.56	17.00
5670MHz	Pass	3.73	-1.87	-1.87	11.00	1.86	17.00
5755MHz	Pass	3.97	-3.79	-3.79	30.00	0.18	36.00
5795MHz	Pass	3.97	-3.57	-3.57	30.00	0.40	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.25	-7.24	-7.24	17.00	-3.99	23.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5290MHz	Pass	3.49	-7.00	-7.00	11.00	-3.51	17.00
5530MHz	Pass	3.73	-7.30	-7.30	11.00	-3.57	17.00
5775MHz	Pass	3.97	-8.19	-8.19	30.00	-4.22	36.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = Power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_1TX PSD

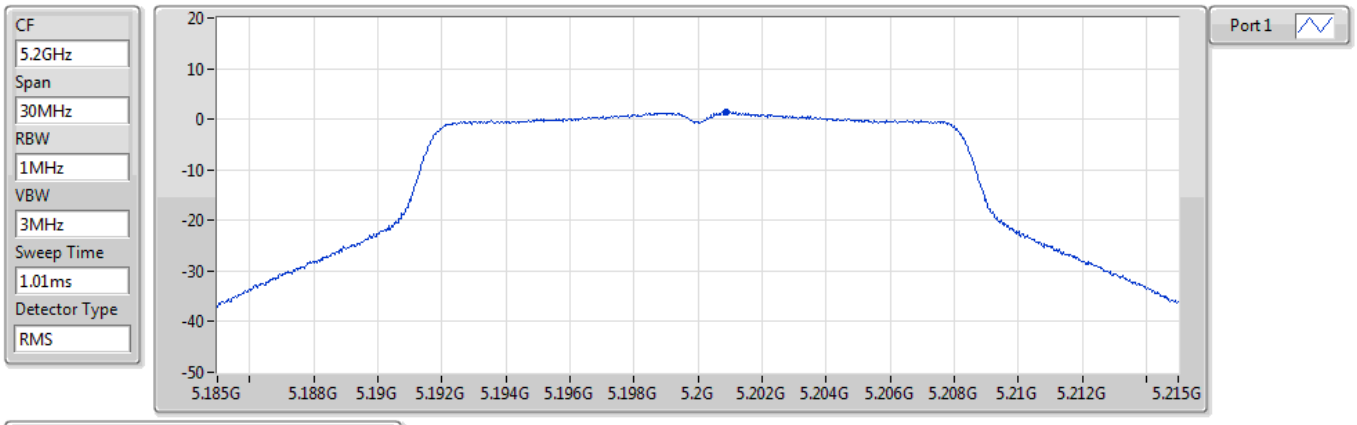
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.25	1.25	1.25

802.11a_Nss1,(6Mbps)_1TX PSD

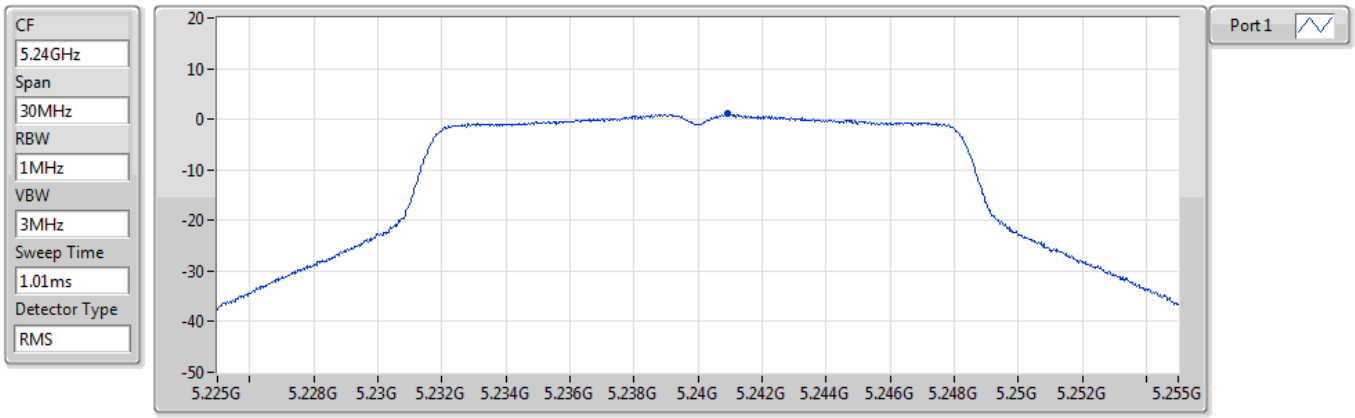
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.46	1.46	1.46

802.11a_Nss1,(6Mbps)_1TX PSD

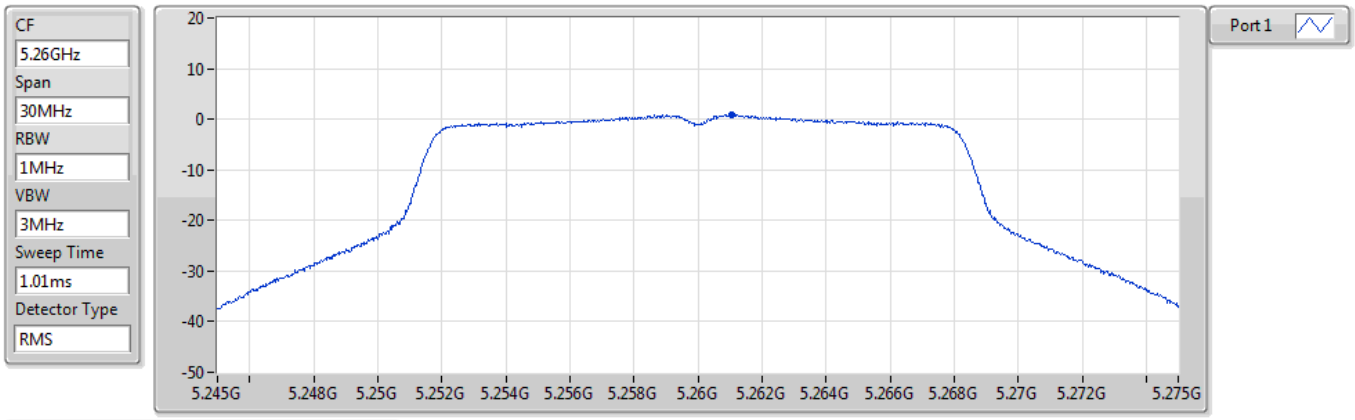
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.00	1.00	1.00

802.11a_Nss1,(6Mbps)_1TX PSD

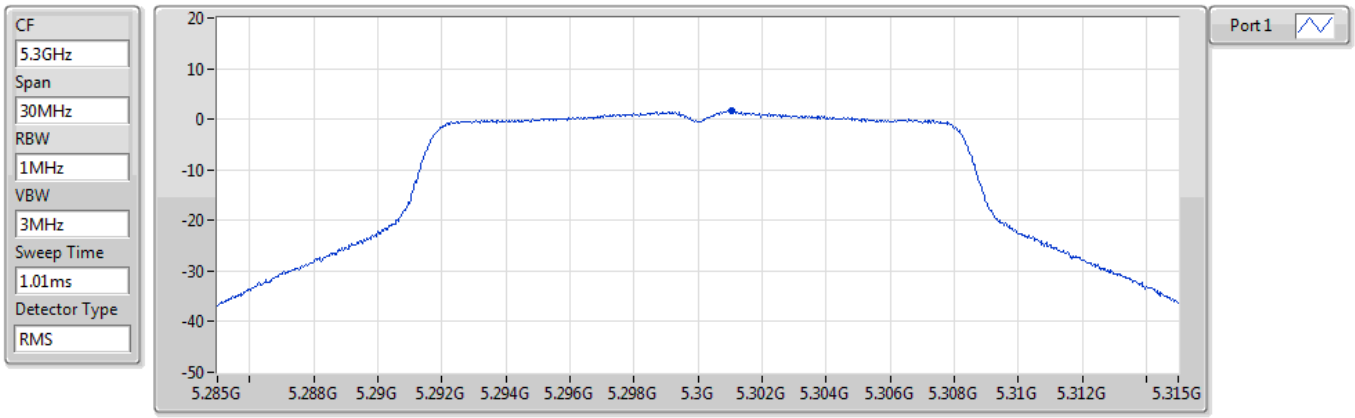
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.88	0.88	0.88

802.11a_Nss1,(6Mbps)_1TX PSD

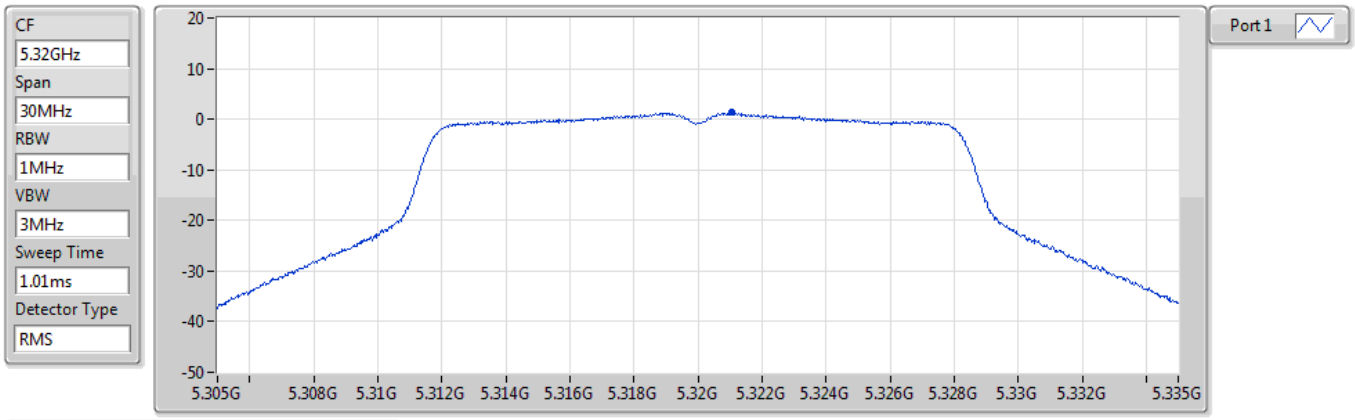
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.59	1.59	1.59

802.11a_Nss1,(6Mbps)_1TX PSD

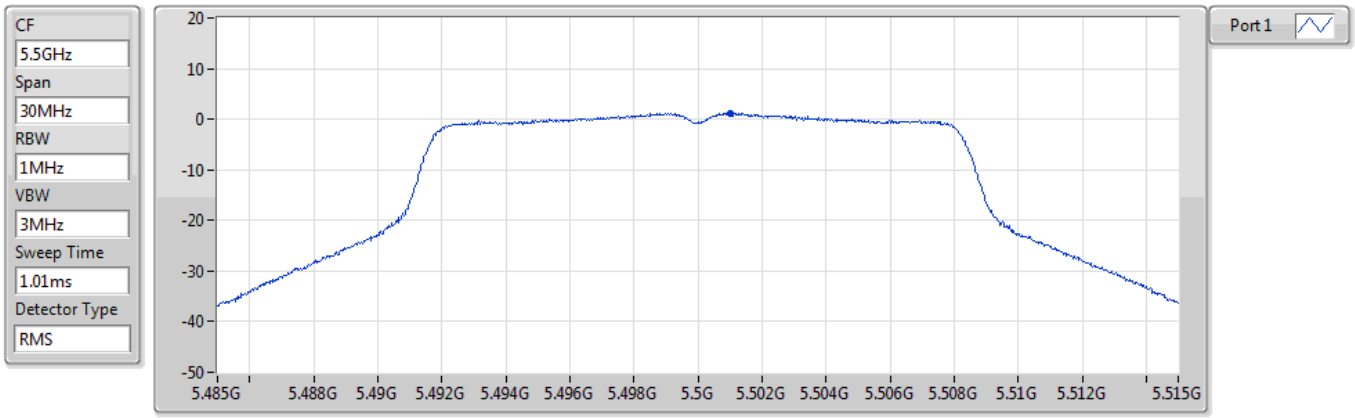
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.31	1.31	1.31

802.11a_Nss1,(6Mbps)_1TX PSD

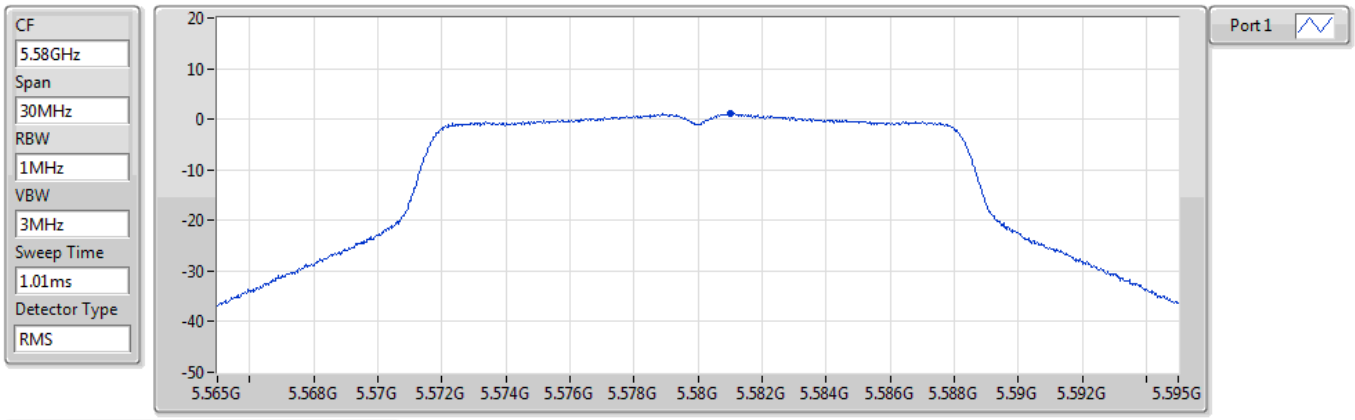
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.20	1.20	1.20

802.11a_Nss1,(6Mbps)_1TX PSD

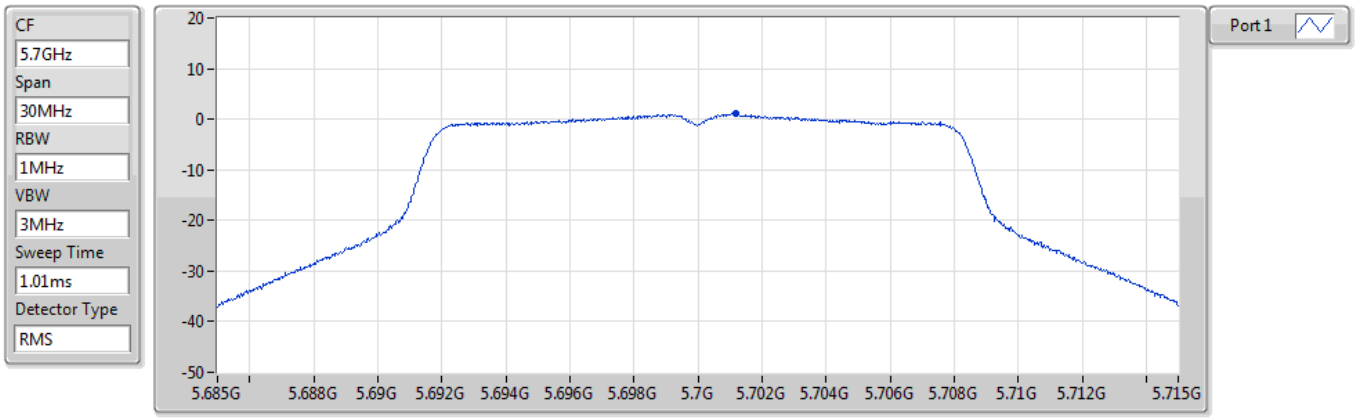
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.07	1.07	1.07

802.11a_Nss1,(6Mbps)_1TX PSD

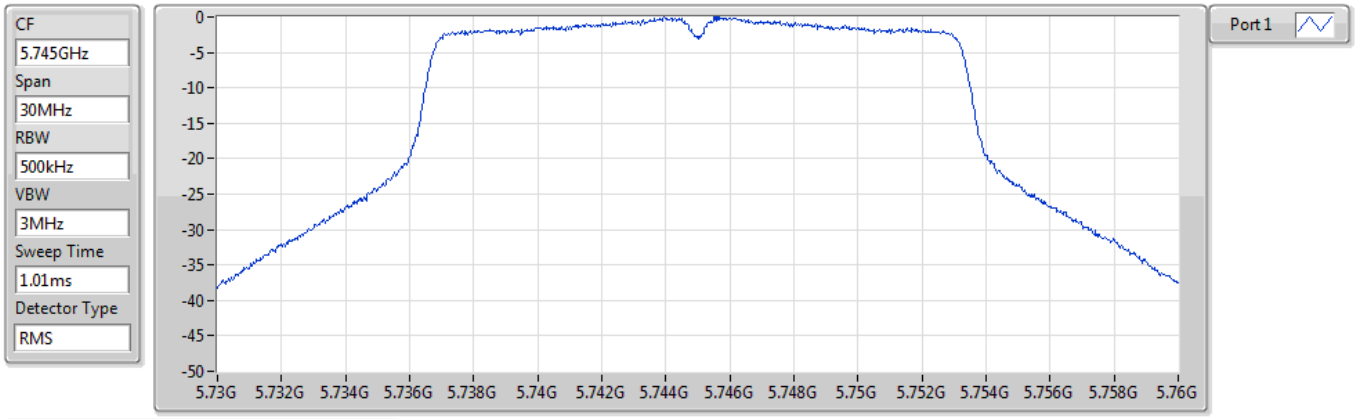
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.05	1.05	1.05

802.11a_Nss1,(6Mbps)_1TX PSD

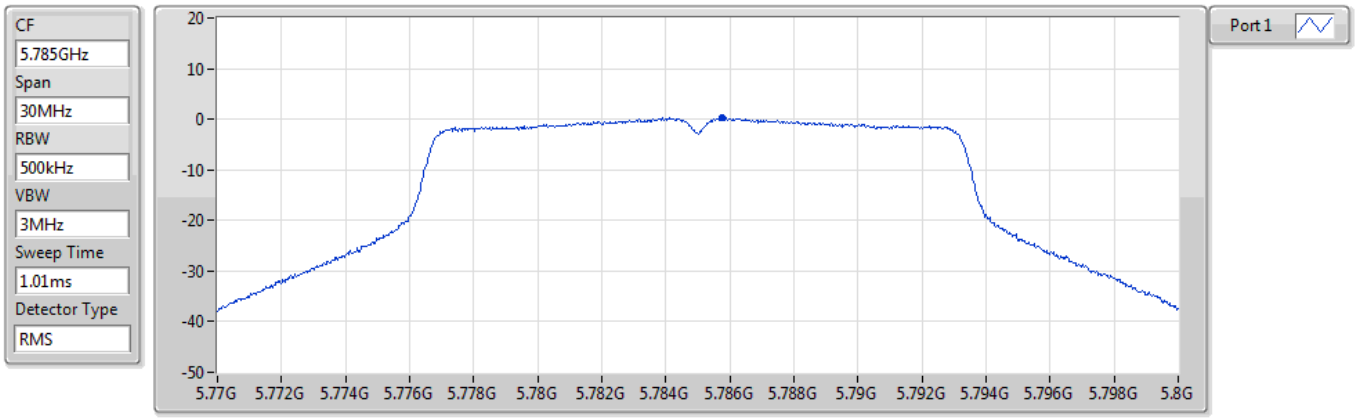
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.04	-0.04	-0.04

802.11a_Nss1,(6Mbps)_1TX PSD

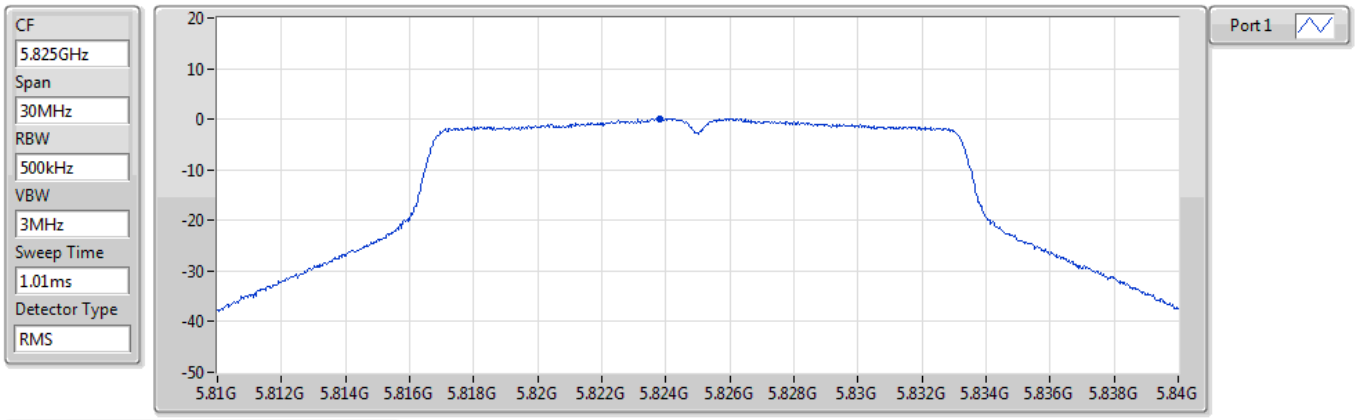
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.27	0.27	0.27

802.11a_Nss1,(6Mbps)_1TX PSD

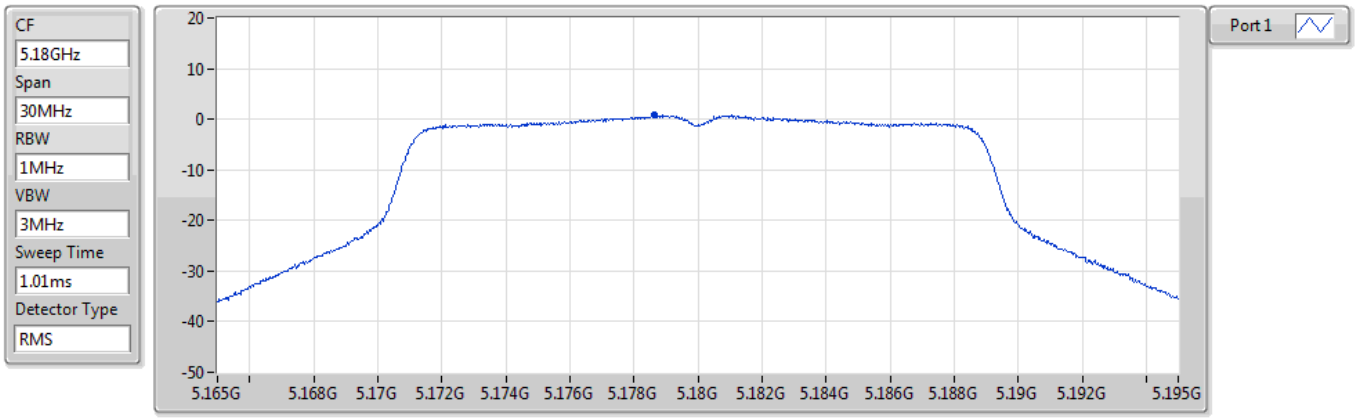
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.16	0.16	0.16

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

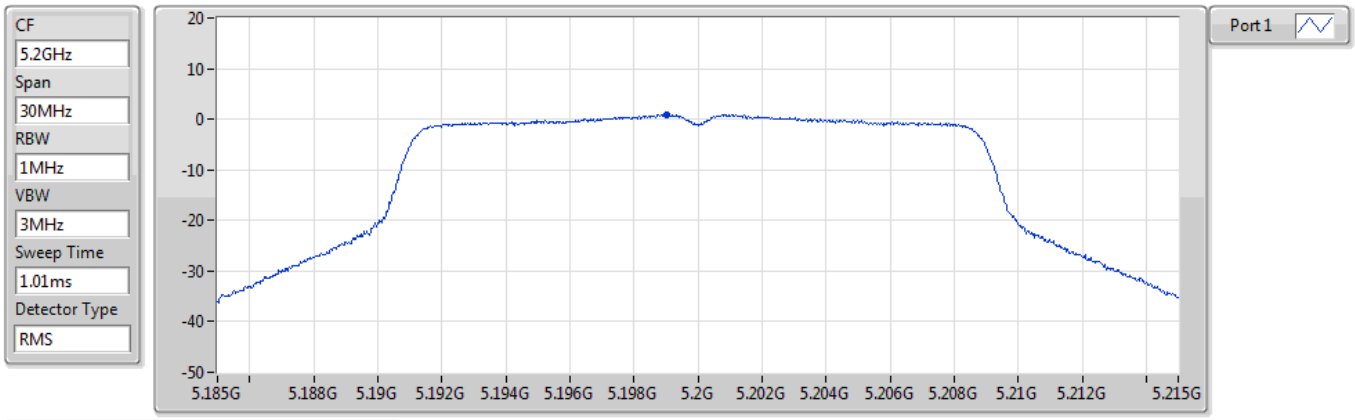
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.85	0.85	0.85

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

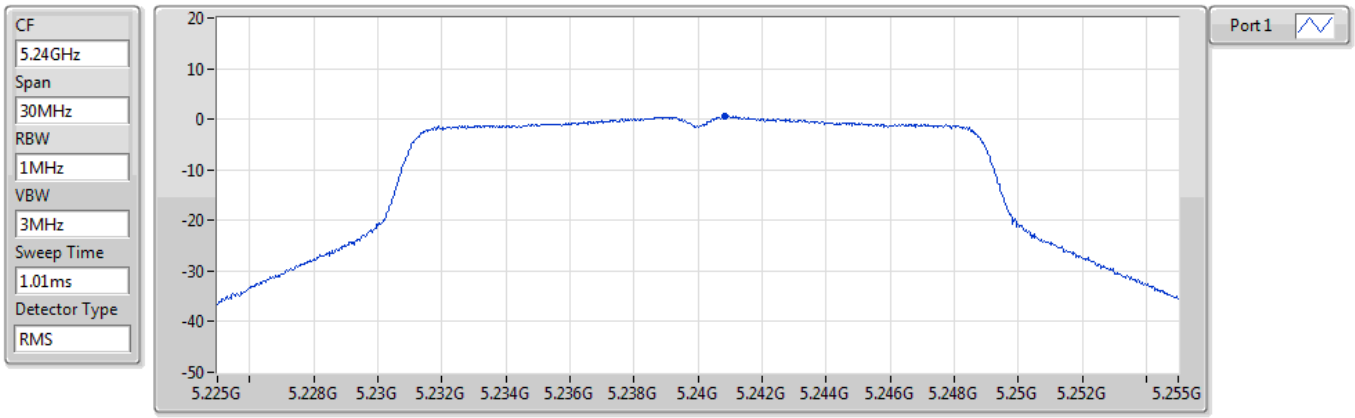
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.95	0.95	0.95

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

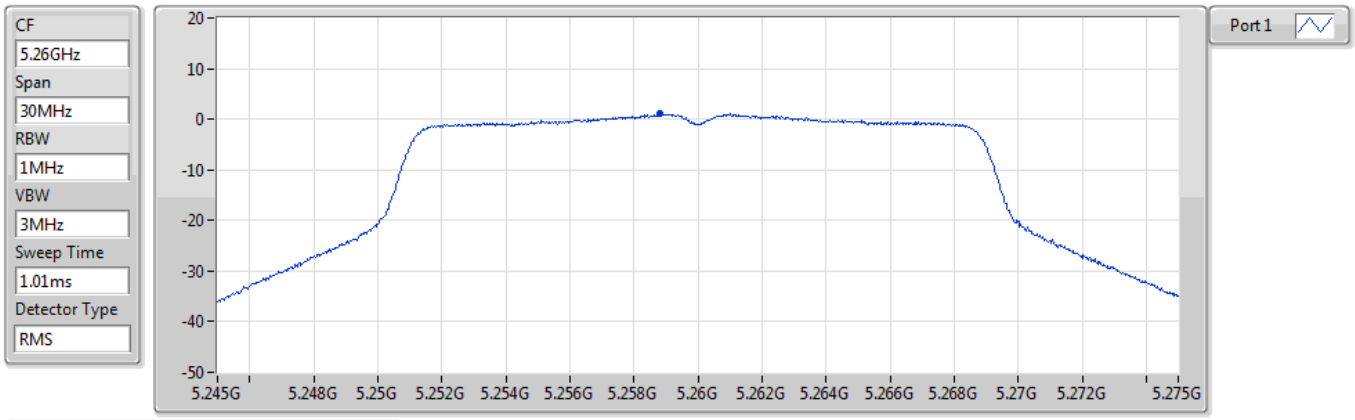
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.54	0.54	0.54

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

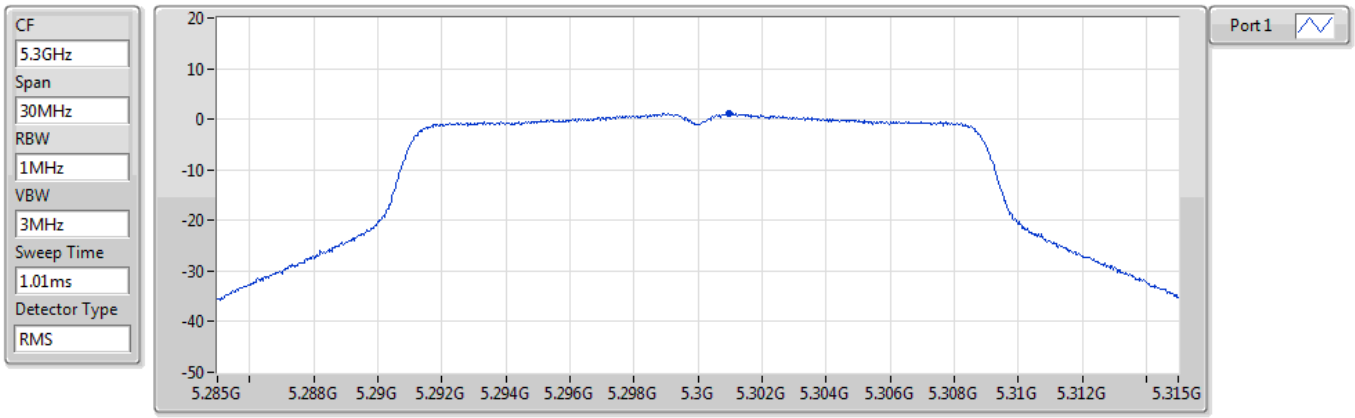
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.08	1.08	1.08

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

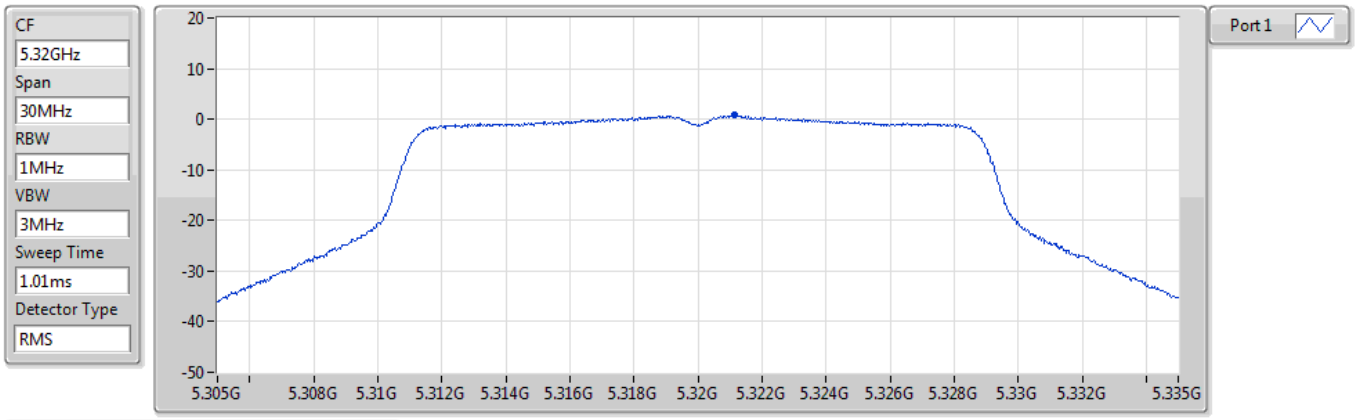
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.17	1.17	1.17

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

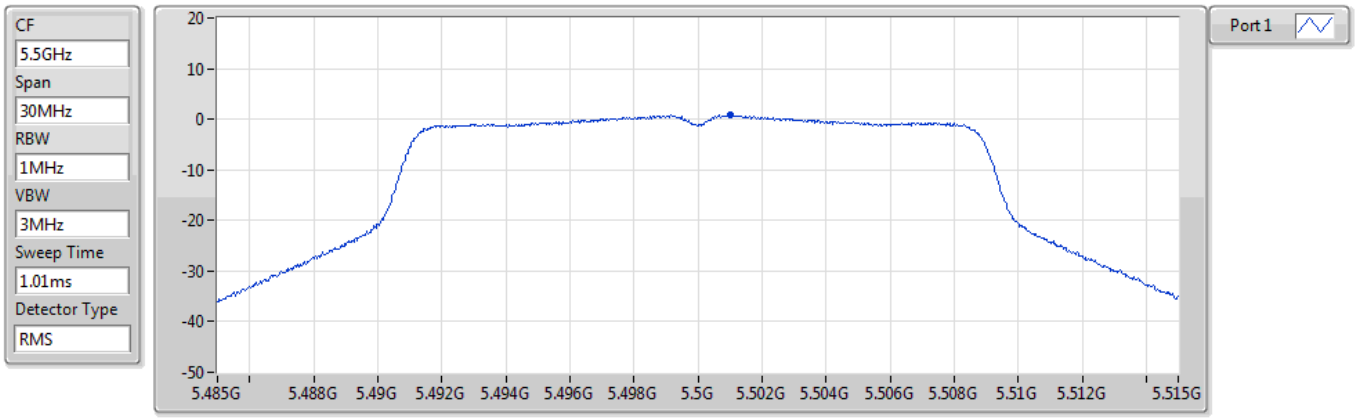
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.78	0.78	0.78

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

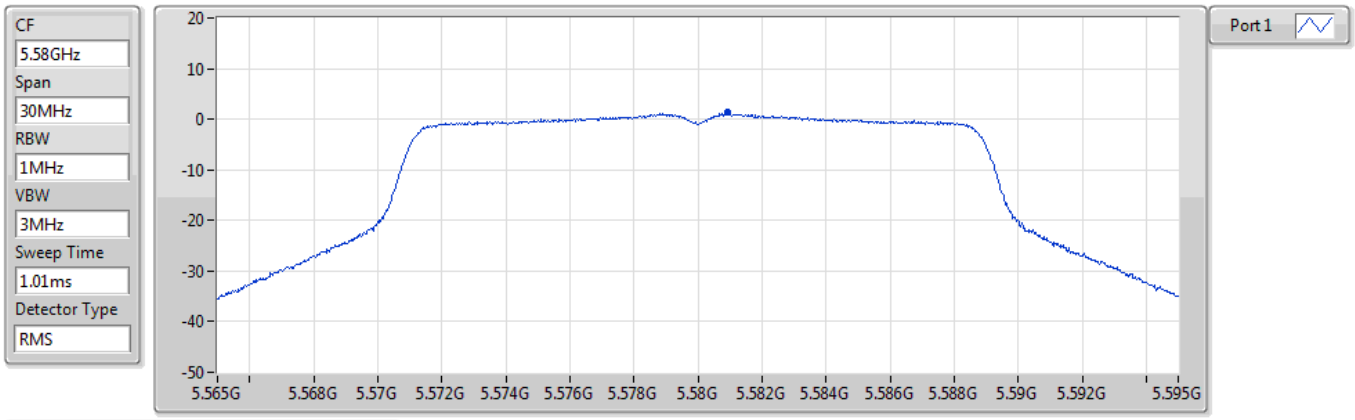
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.89	0.89	0.89

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

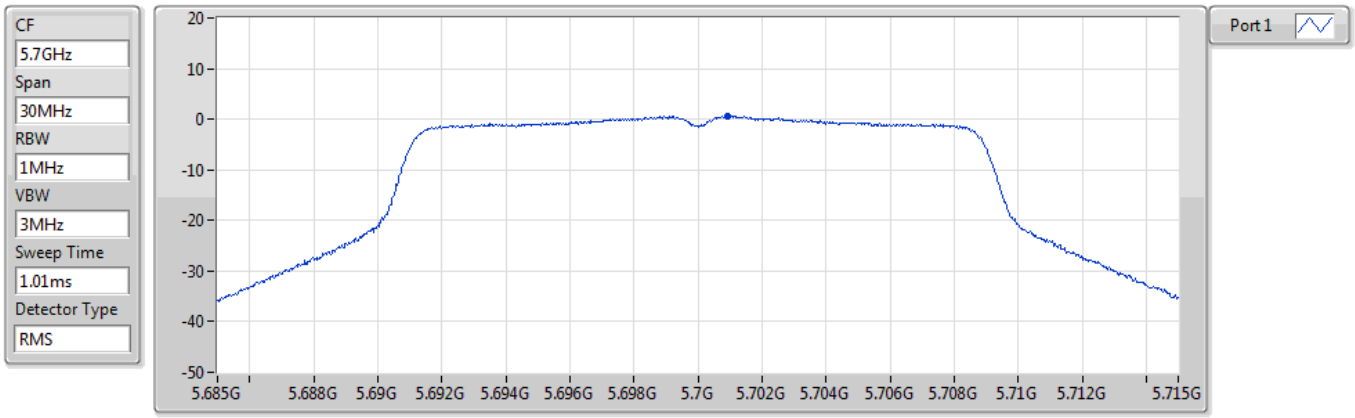
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.27	1.27	1.27

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

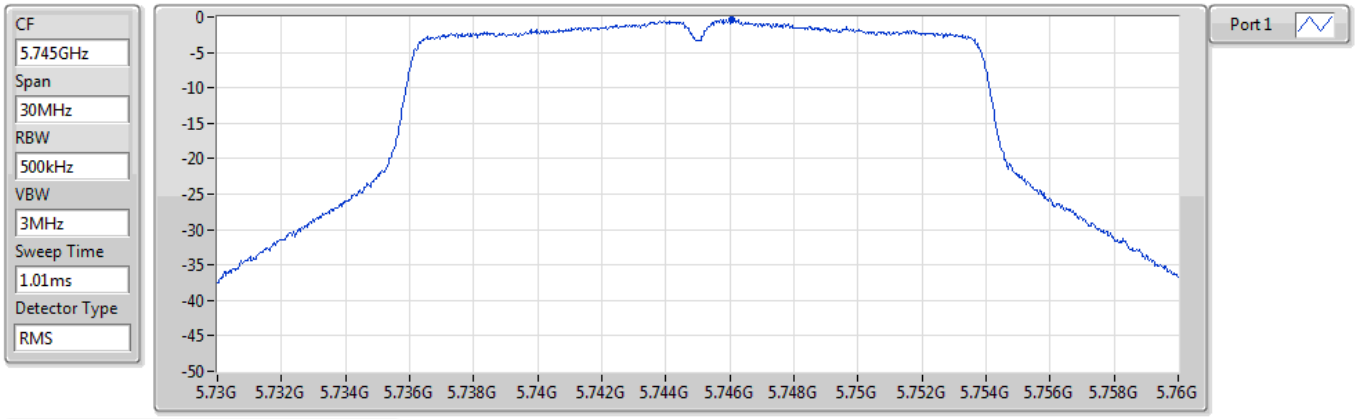
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.70	0.70	0.70

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

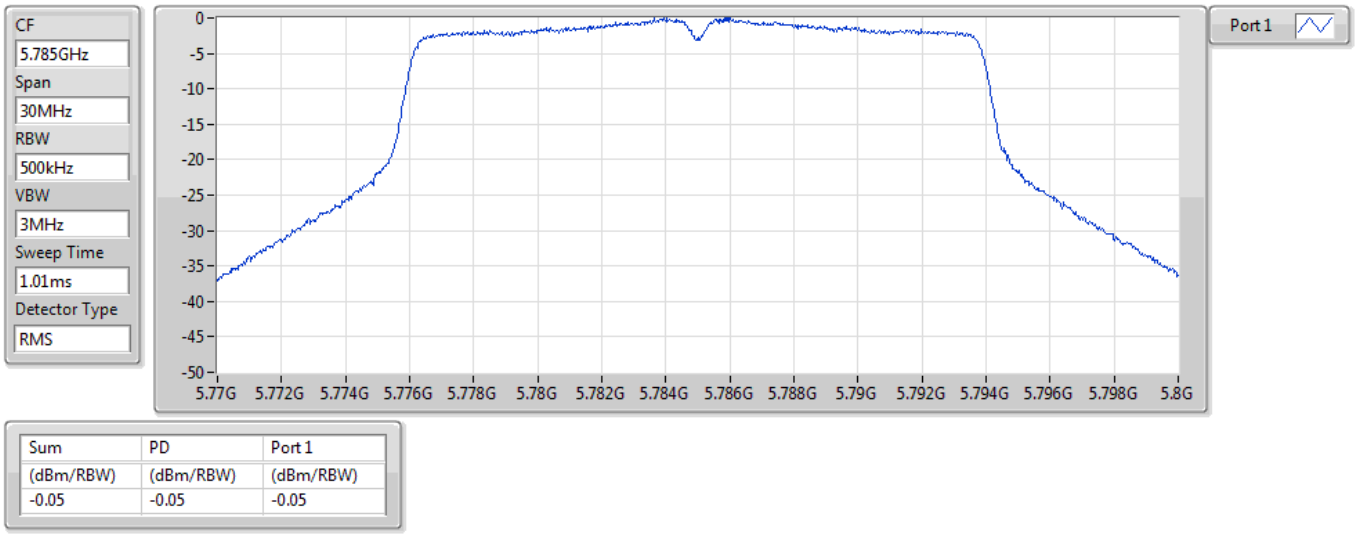
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.30	-0.30	-0.30

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

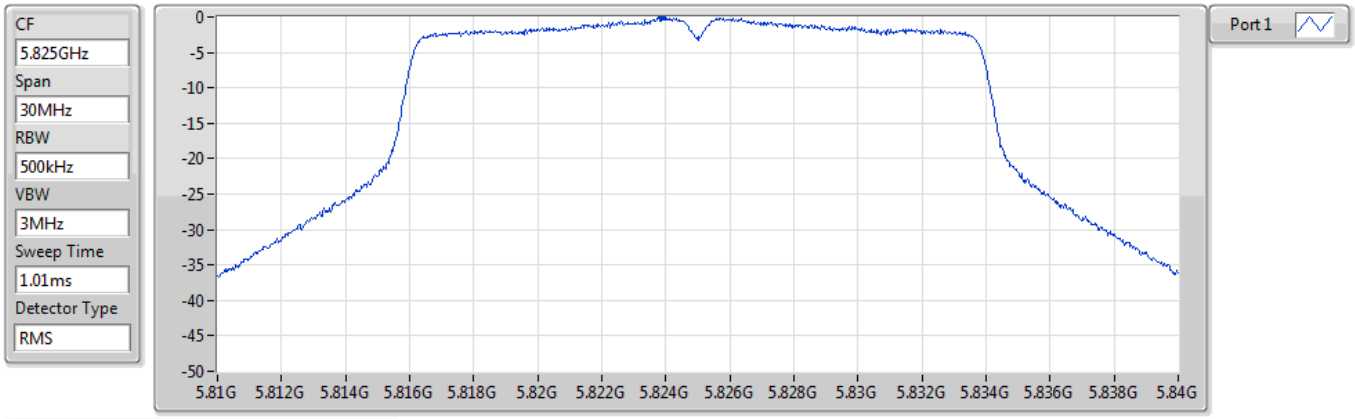
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.05	-0.05	-0.05

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

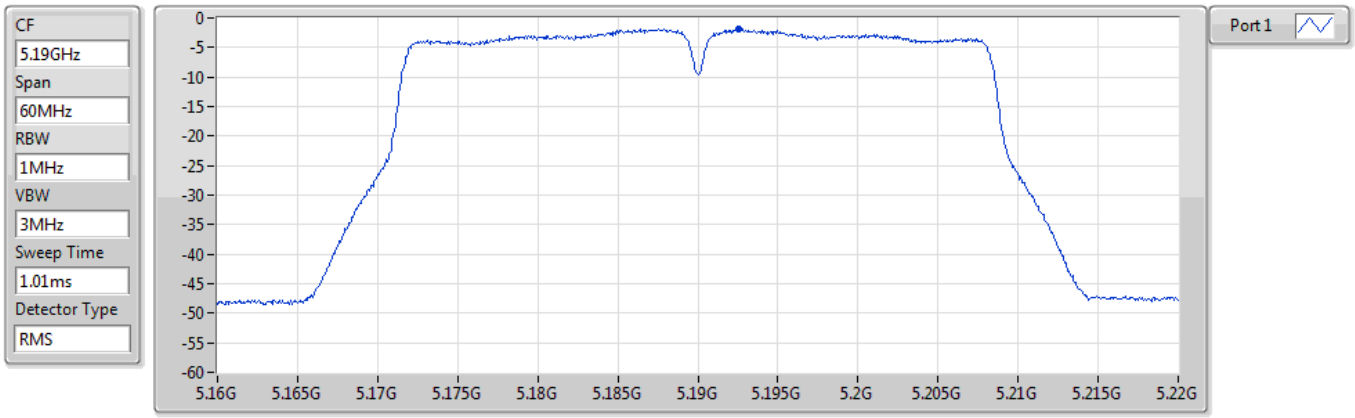
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.04	-0.04	-0.04

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

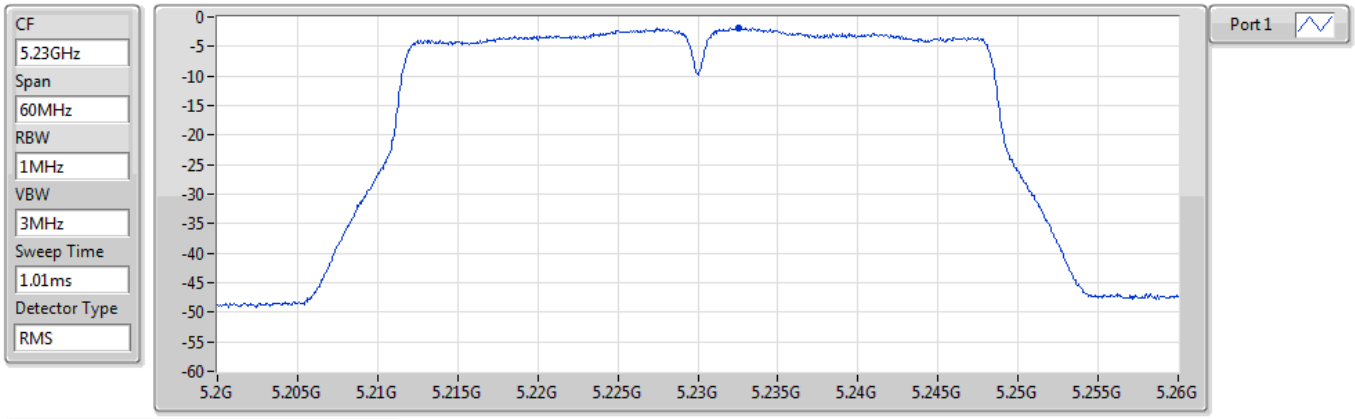
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.87	-1.87	-1.87

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

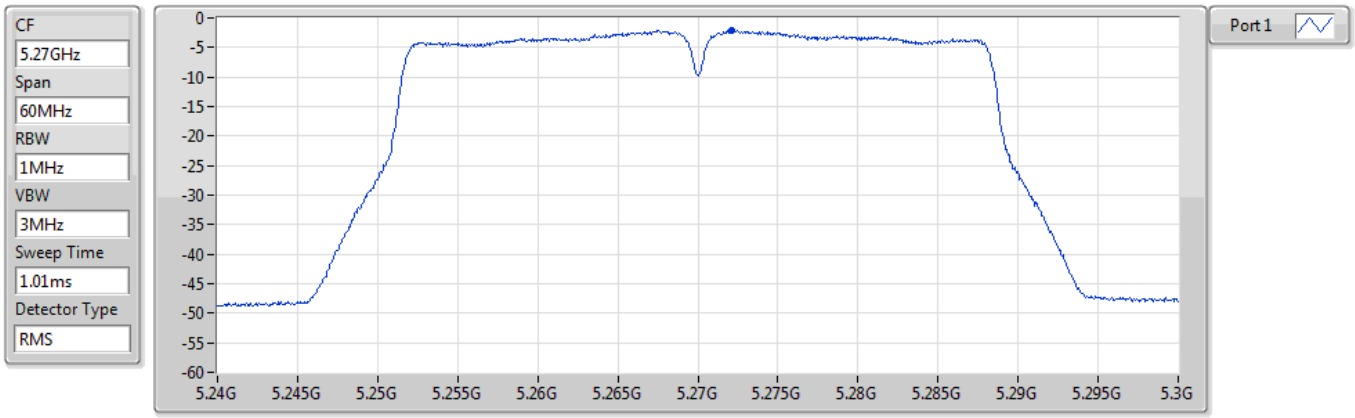
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.79	-1.79	-1.79

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

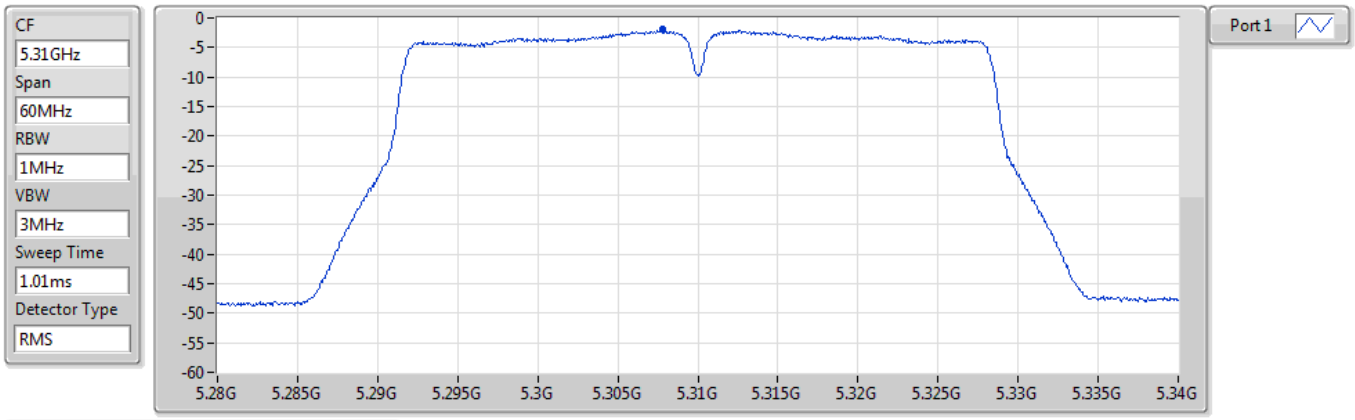
5270MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.13	-2.13	-2.13

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

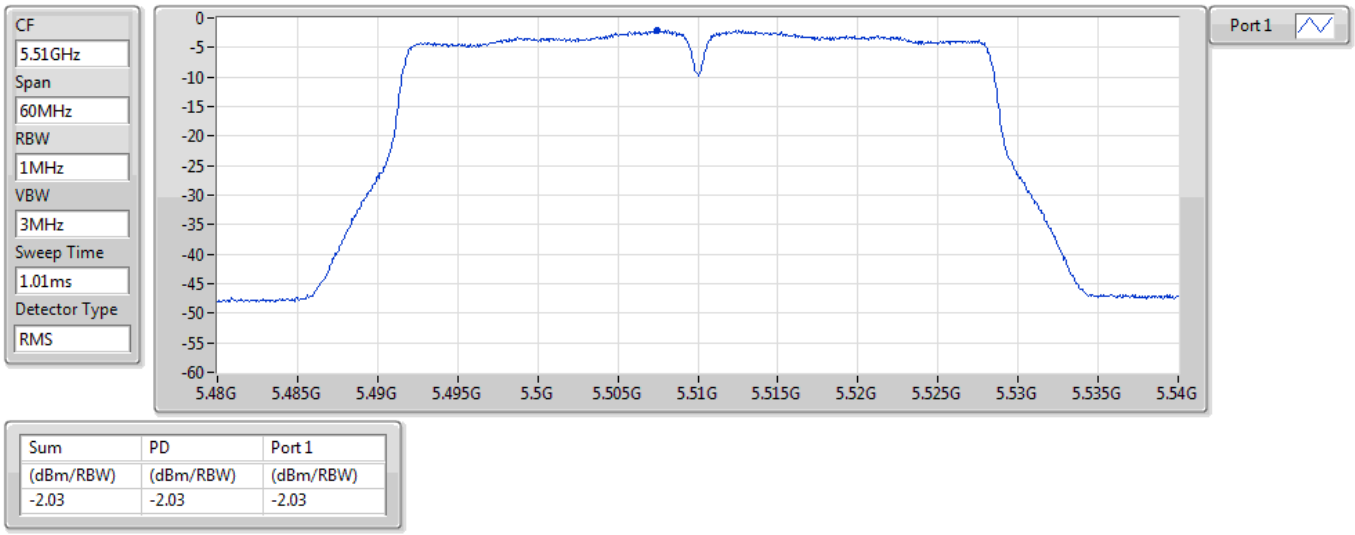
5310MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.97	-1.97	-1.97

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

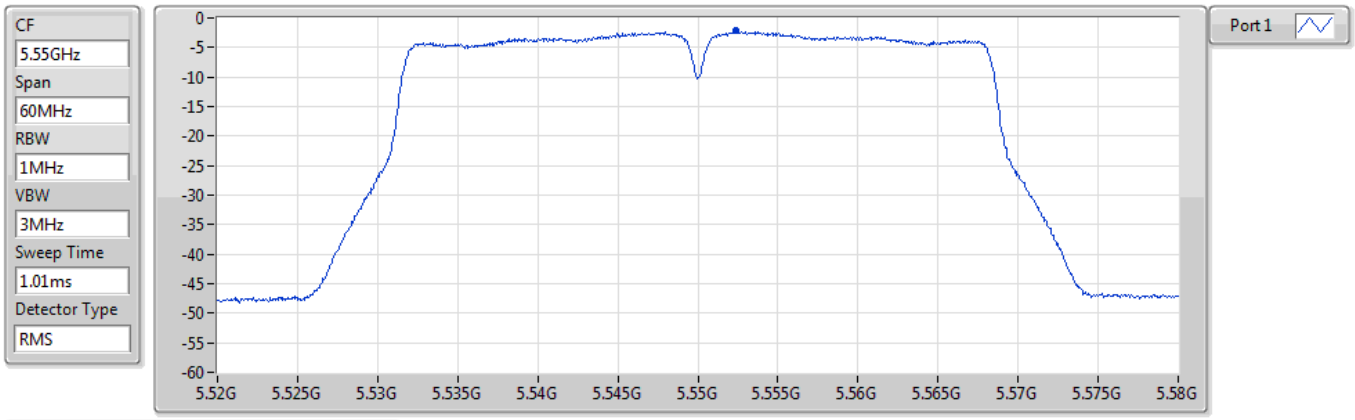
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.03	-2.03	-2.03

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

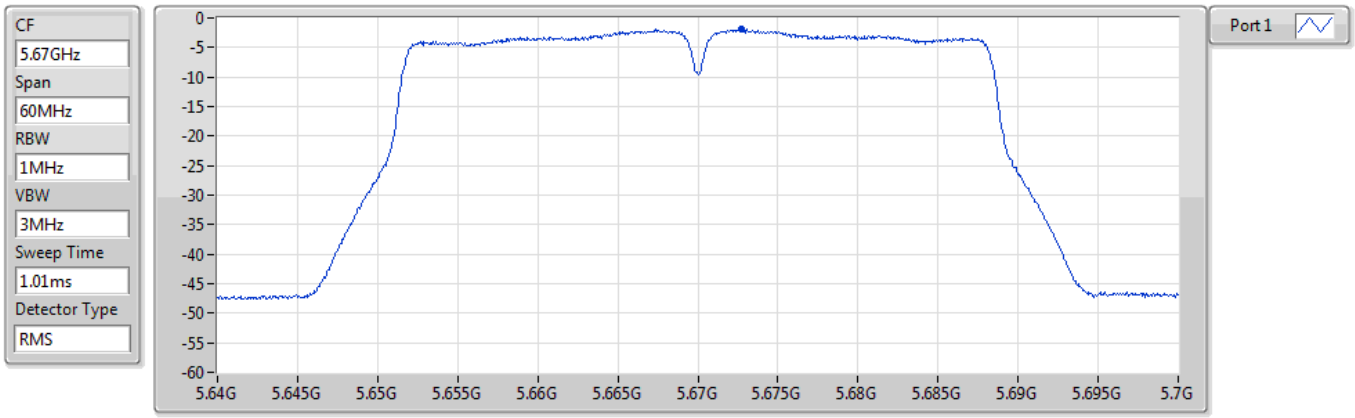
5550MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.17	-2.17	-2.17

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

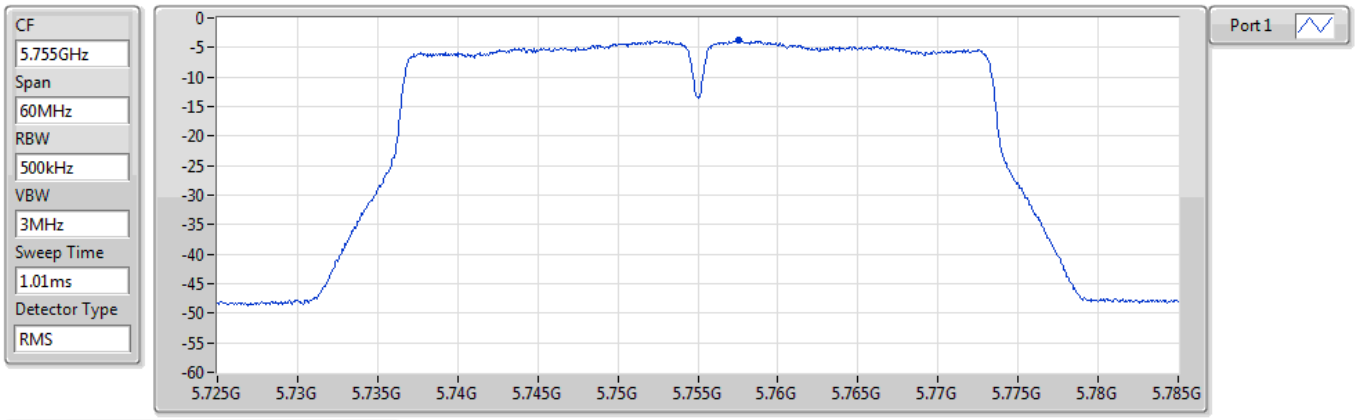
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.87	-1.87	-1.87

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

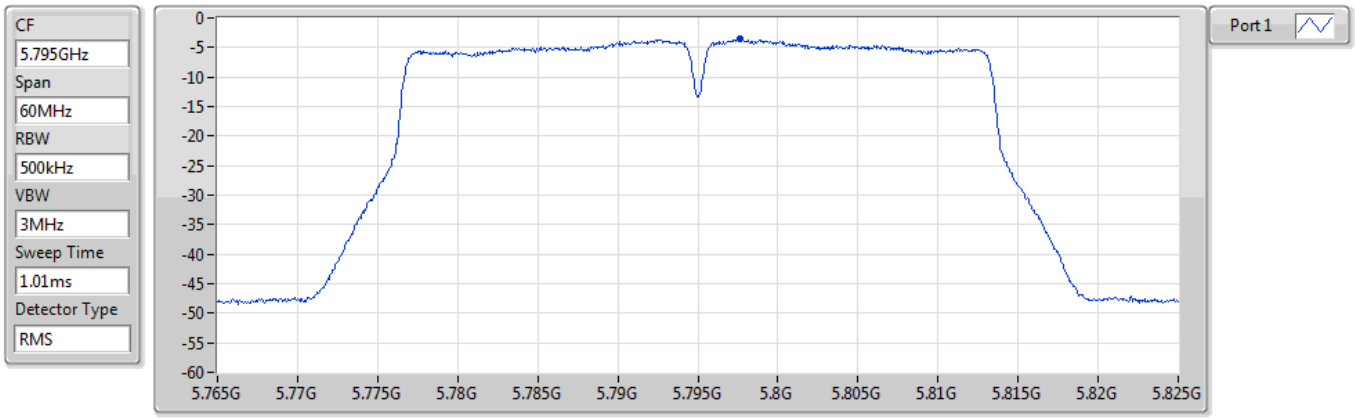
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.79	-3.79	-3.79

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

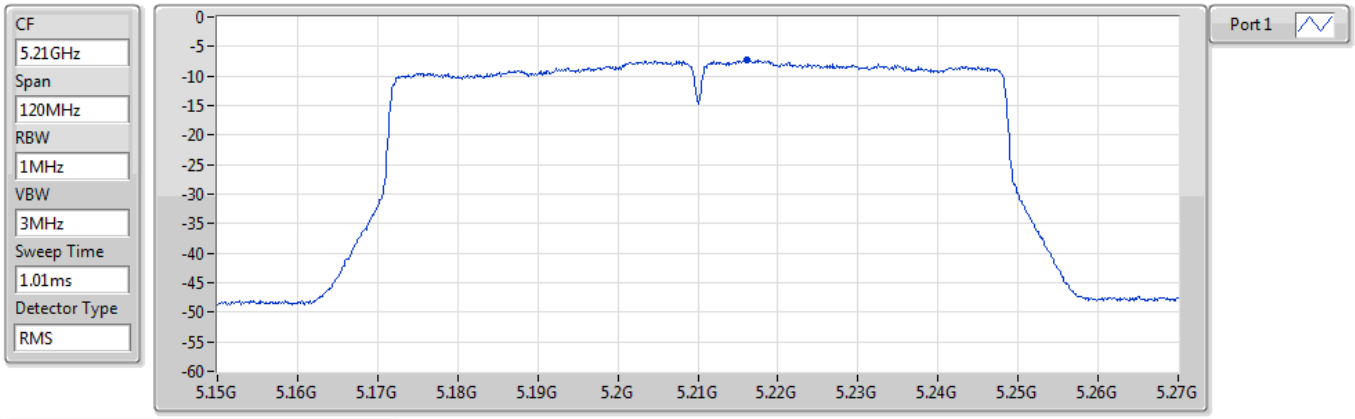
5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.57	-3.57	-3.57

802.11ac VHT80_Nss1,(MCS0)_1TX PSD

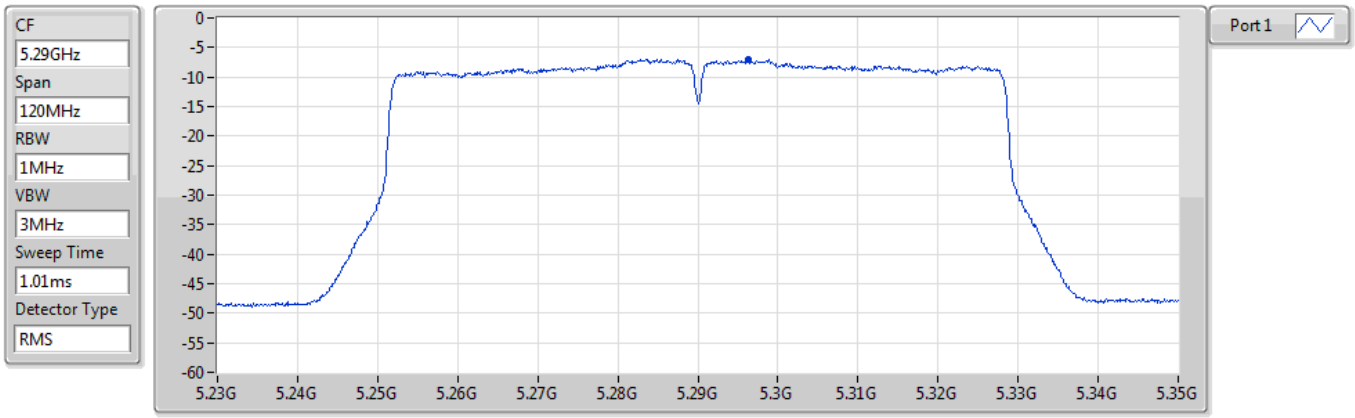
5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.24	-7.24	-7.24

802.11ac VHT80_Nss1,(MCS0)_1TX PSD

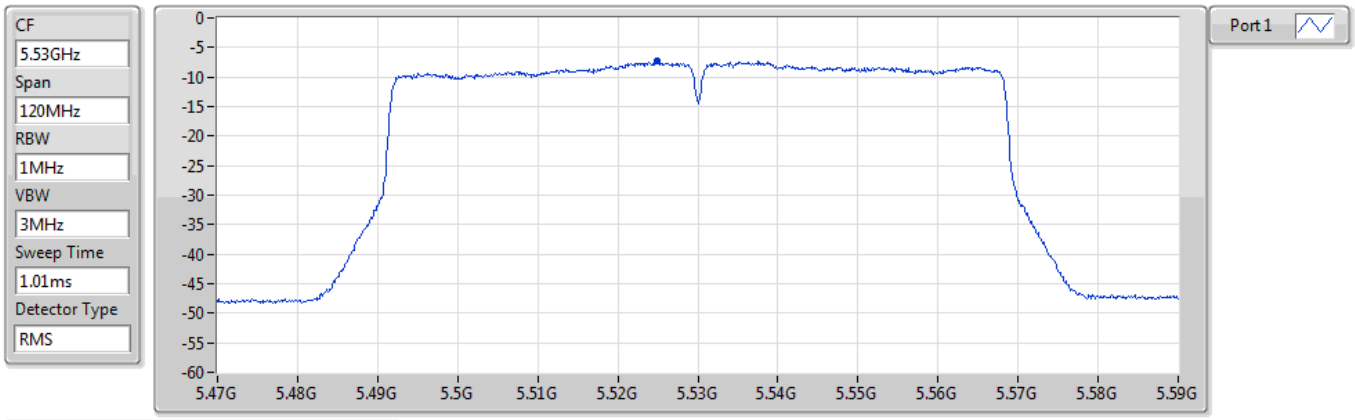
5290MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.00	-7.00	-7.00

802.11ac VHT80_Nss1,(MCS0)_1TX PSD

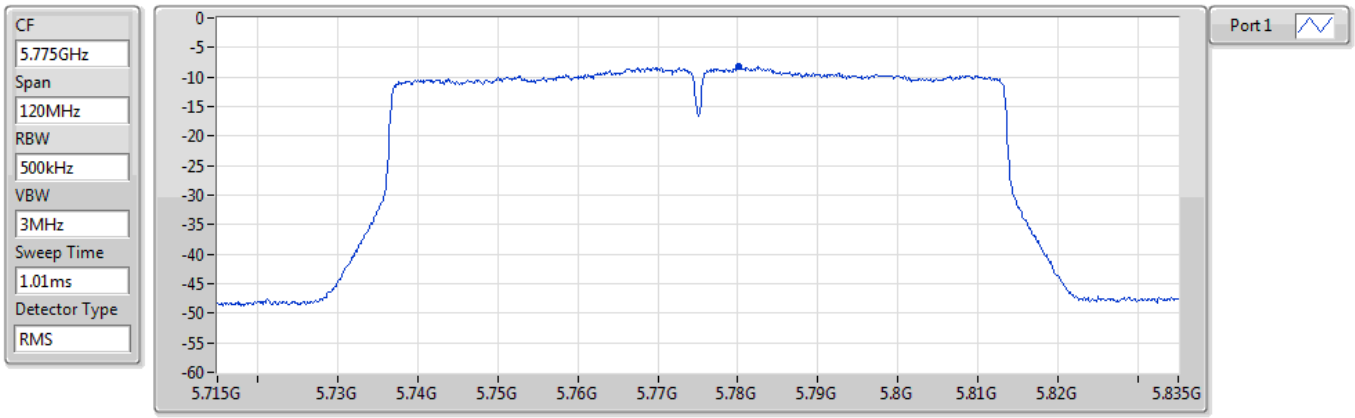
5530MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.30	-7.30	-7.30

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5775MHz

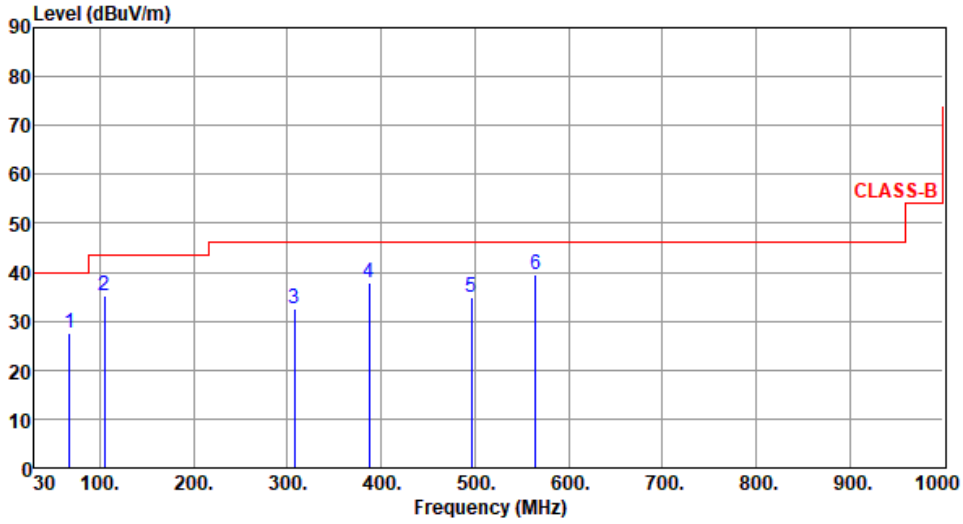


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.19	-8.19	-8.19

Unwanted Emissions (Below 1GHz)

Modulation	ac VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65

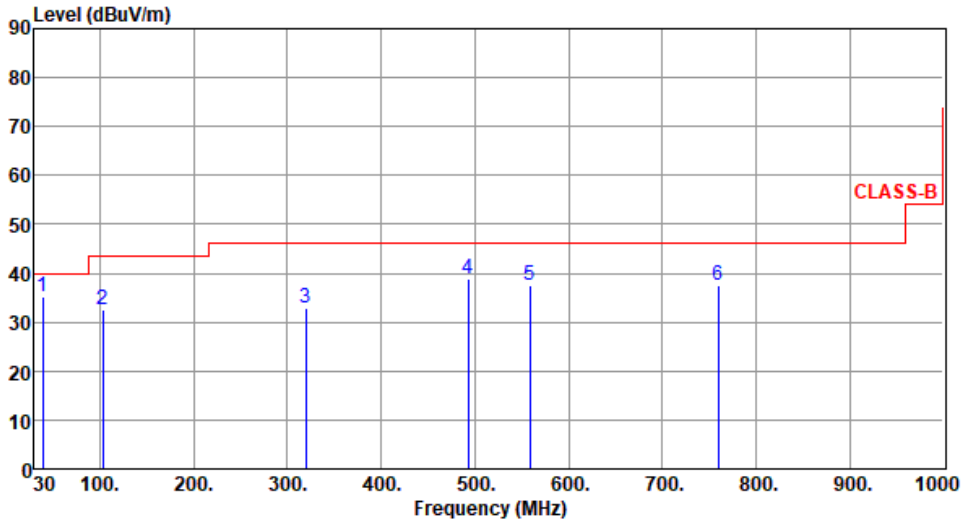


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	67.83	27.42	40.00	-12.58	37.58	-10.16	Peak	---	---
2	104.69	35.17	43.50	-8.33	47.60	-12.43	Peak	---	---
3	307.42	32.65	46.00	-13.35	40.55	-7.90	Peak	---	---
4	386.96	37.84	46.00	-8.16	43.91	-6.07	Peak	---	---
5	496.57	34.91	46.00	-11.09	38.28	-3.37	Peak	---	---
6	564.47	39.57	46.00	-6.43	41.59	-2.02	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	ac VHT40	**Test Freq. (MHz)**	5190
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65

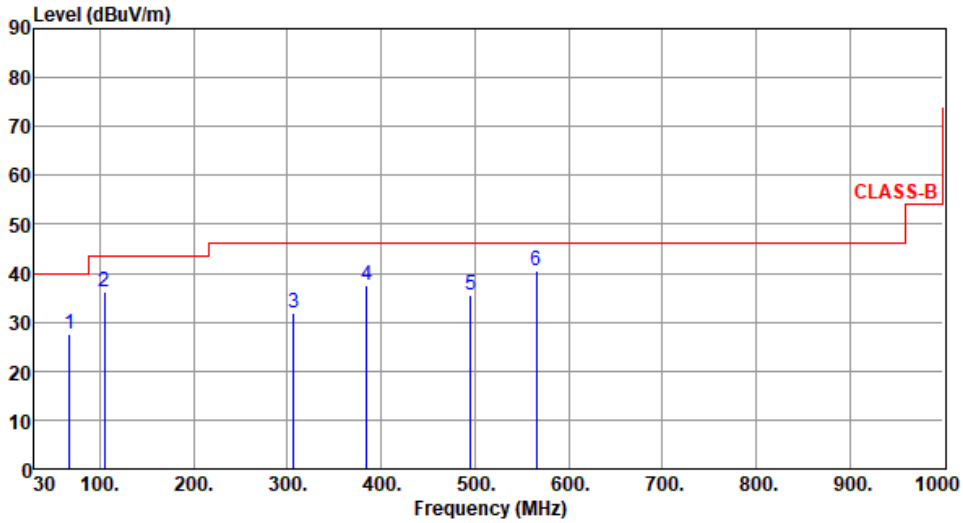


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	38.73	35.06	40.00	-4.94	43.93	-8.87	Peak	---	---
2	102.75	32.43	43.50	-11.07	45.28	-12.85	Peak	---	---
3	320.03	32.76	46.00	-13.24	40.23	-7.47	Peak	---	---
4	492.69	38.71	46.00	-7.29	42.21	-3.50	Peak	---	---
5	558.65	37.50	46.00	-8.50	39.68	-2.18	Peak	---	---
6	759.44	37.68	46.00	-8.32	36.02	1.66	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65

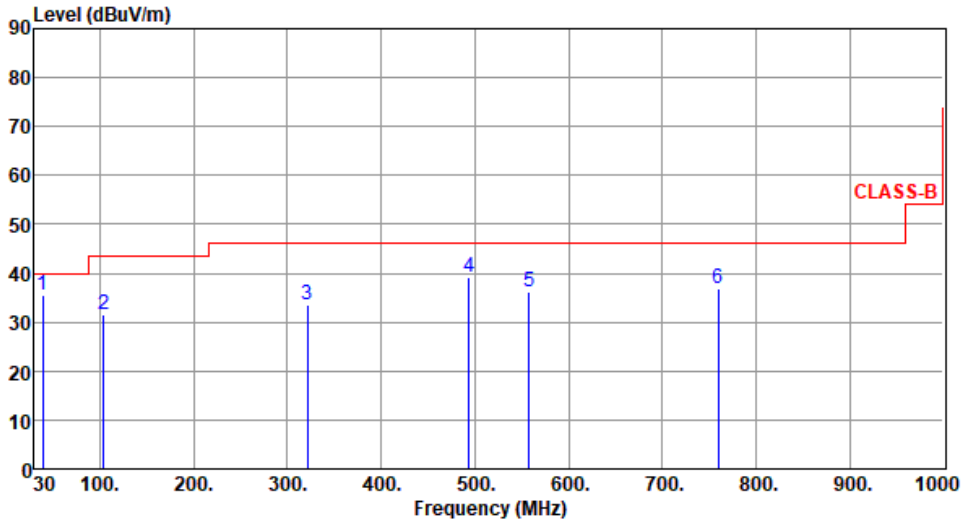


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	67.59	27.68	40.00	-12.32	37.89	-10.21	Peak	---	---
2	105.26	36.28	43.50	-7.22	48.59	-12.31	Peak	---	---
3	306.59	31.81	46.00	-14.19	39.76	-7.95	Peak	---	---
4	384.87	37.45	46.00	-8.55	43.56	-6.11	Peak	---	---
5	495.86	35.59	46.00	-10.41	38.97	-3.38	Peak	---	---
6	565.86	40.58	46.00	-5.42	42.57	-1.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65



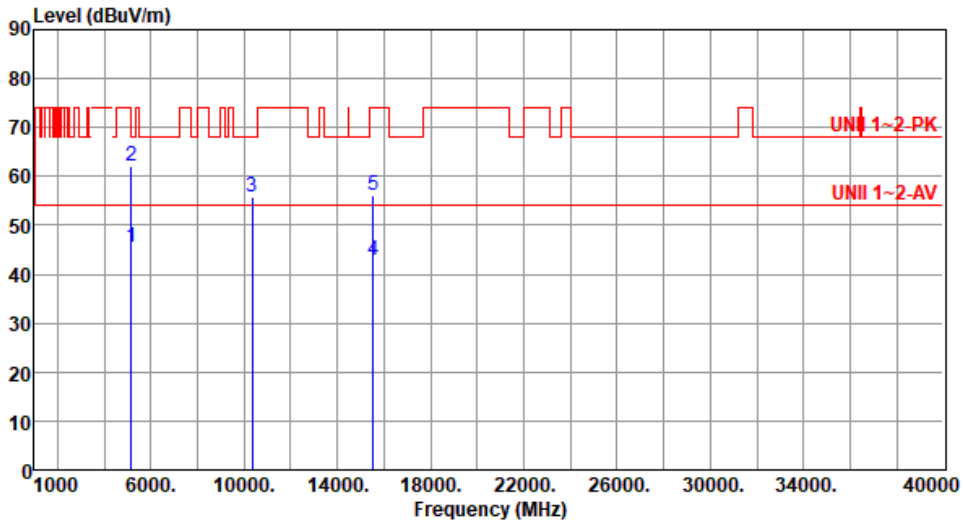
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	38.56	35.37	40.00	-4.63	44.28	-8.91	Peak	---	---
2	103.58	31.68	43.50	-11.82	44.41	-12.73	Peak	---	---
3	321.26	33.68	46.00	-12.32	41.14	-7.46	Peak	---	---
4	493.58	39.25	46.00	-6.75	42.72	-3.47	Peak	---	---
5	557.49	36.28	46.00	-9.72	38.51	-2.23	Peak	---	---
6	760.15	36.84	46.00	-9.16	35.17	1.67	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

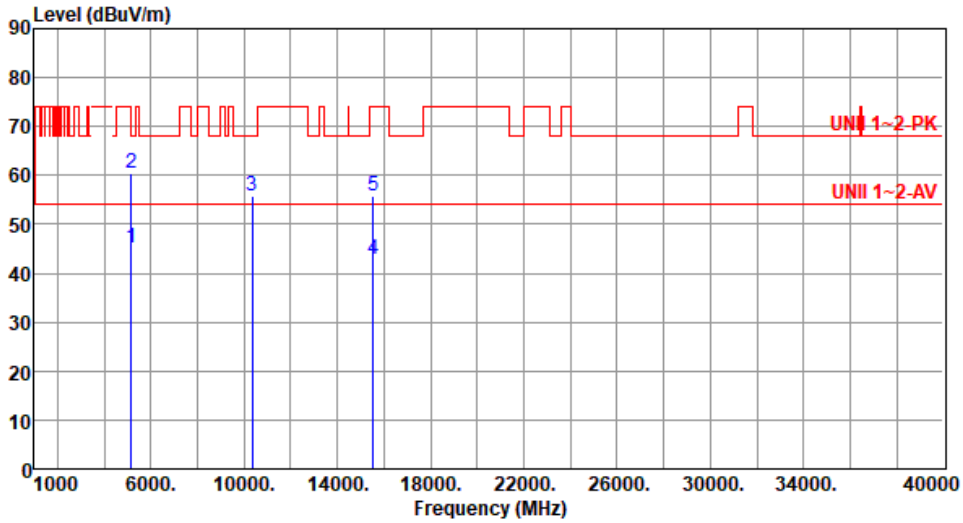


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.48	54.00	-8.52	40.47	5.01	Average	106	27
2	5150.00	62.05	74.00	-11.95	57.04	5.01	Peak	106	27
3	10360.00	55.89	68.20	-12.31	41.68	14.21	Peak	100	50
4	15540.00	42.79	54.00	-11.21	29.15	13.64	Average	100	80
5	15540.00	56.10	74.00	-17.90	42.46	13.64	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

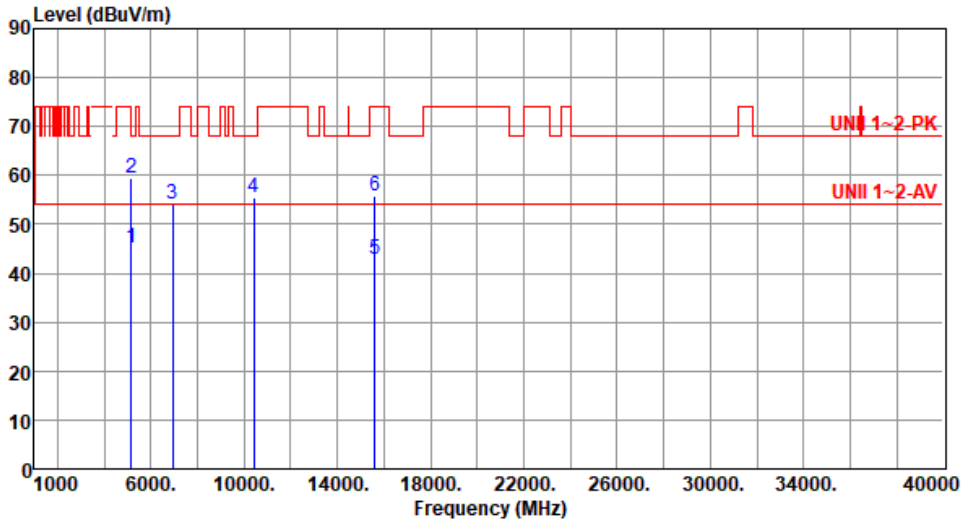


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.23	54.00	-8.77	40.22	5.01	Average	100	19
2	5150.00	60.28	74.00	-13.72	55.27	5.01	Peak	100	19
3	10360.00	55.67	68.20	-12.53	41.46	14.21	Peak	100	20
4	15540.00	42.90	54.00	-11.10	29.26	13.64	Average	100	40
5	15540.00	55.95	74.00	-18.05	42.31	13.64	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

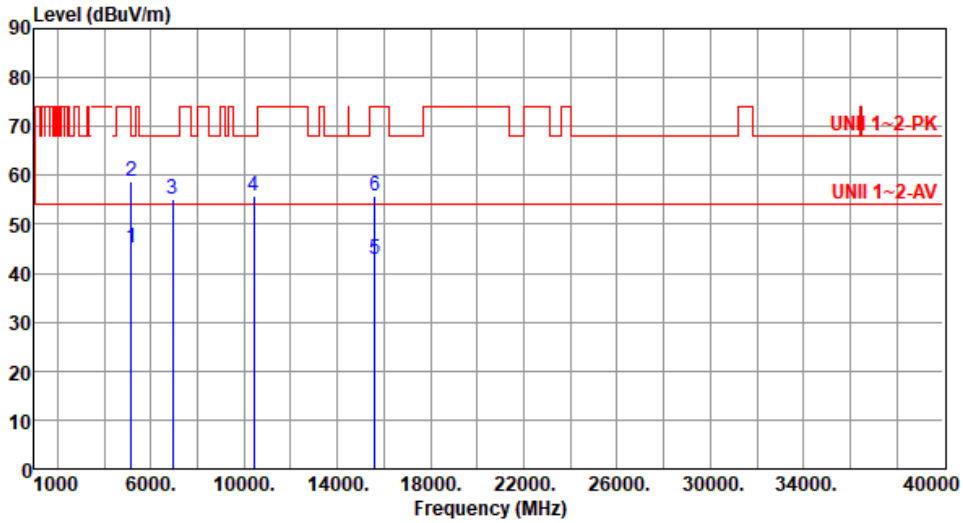


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.27	54.00	-8.73	40.26	5.01	Average	105	30
2	5150.00	59.38	74.00	-14.62	54.37	5.01	Peak	105	30
3	6933.33	54.21	68.20	-13.99	46.27	7.94	Peak	100	39
4	10400.00	55.54	68.20	-12.66	41.21	14.33	Peak	100	60
5	15600.00	42.78	54.00	-11.22	29.45	13.33	Average	100	30
6	15600.00	55.64	74.00	-18.36	42.31	13.33	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5200
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

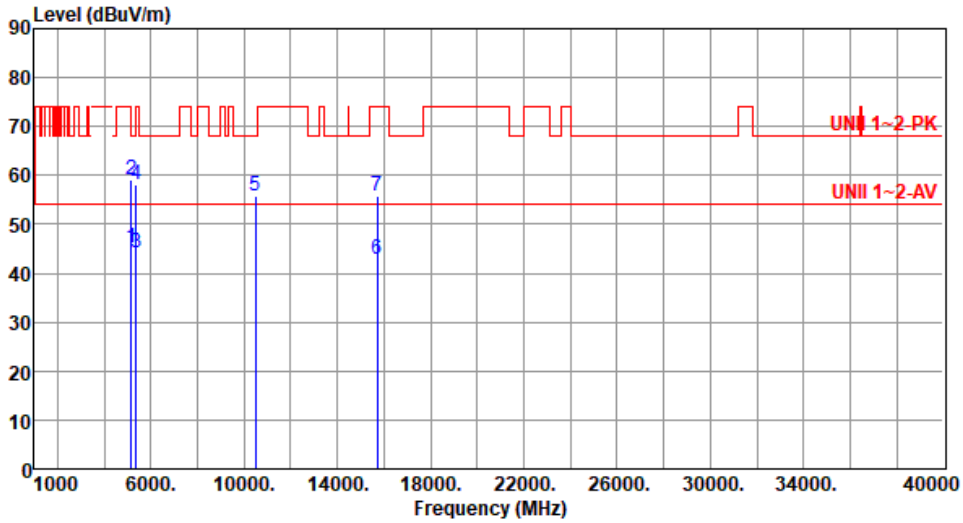


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.13	54.00	-8.87	40.12	5.01	Average	100	13
2	5150.00	58.91	74.00	-15.09	53.90	5.01	Peak	100	13
3	6933.33	54.98	68.20	-13.22	47.04	7.94	Peak	176	38
4	10400.00	55.71	68.20	-12.49	41.38	14.33	Peak	100	20
5	15600.00	42.68	54.00	-11.32	29.35	13.33	Average	100	60
6	15600.00	55.72	74.00	-18.28	42.39	13.33	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

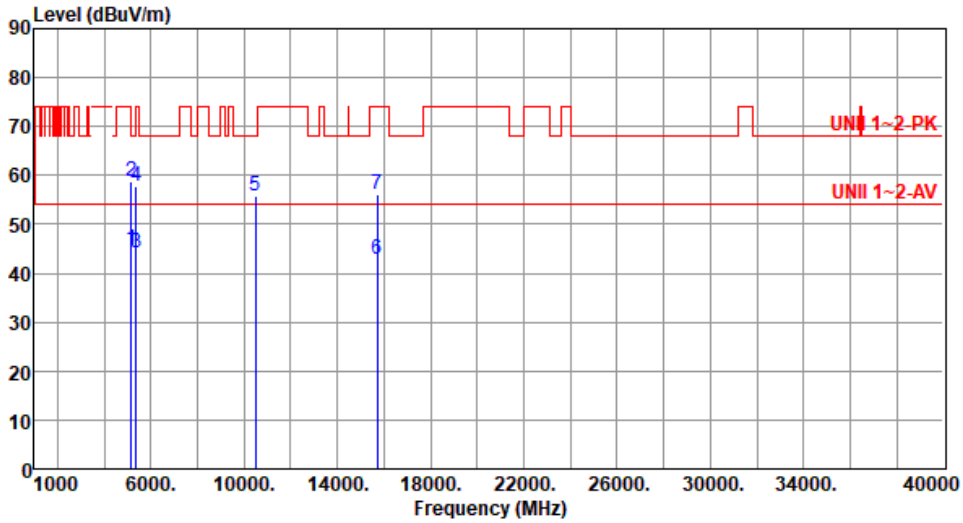


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	104	25
2	5150.00	59.01	74.00	-14.99	54.00	5.01	Peak	104	25
3	5350.00	44.30	54.00	-9.70	39.88	4.42	Average	104	25
4	5350.00	57.98	74.00	-16.02	53.56	4.42	Peak	104	25
5	10480.00	55.92	68.20	-12.28	41.46	14.46	Peak	100	40
6	15720.00	42.81	54.00	-11.19	29.39	13.42	Average	100	20
7	15720.00	55.89	74.00	-18.11	42.47	13.42	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

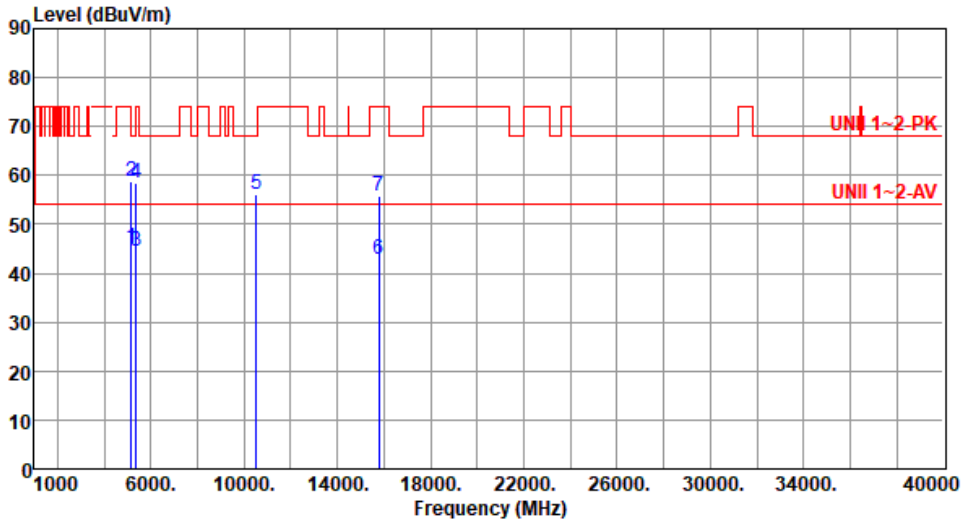


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.91	54.00	-9.09	39.90	5.01	Average	100	17
2	5150.00	58.70	74.00	-15.30	53.69	5.01	Peak	100	17
3	5350.00	44.10	54.00	-9.90	39.68	4.42	Average	100	17
4	5350.00	57.85	74.00	-16.15	53.43	4.42	Peak	100	17
5	10480.00	55.70	68.20	-12.50	41.24	14.46	Peak	100	60
6	15720.00	42.91	54.00	-11.09	29.49	13.42	Average	100	50
7	15720.00	55.99	74.00	-18.01	42.57	13.42	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

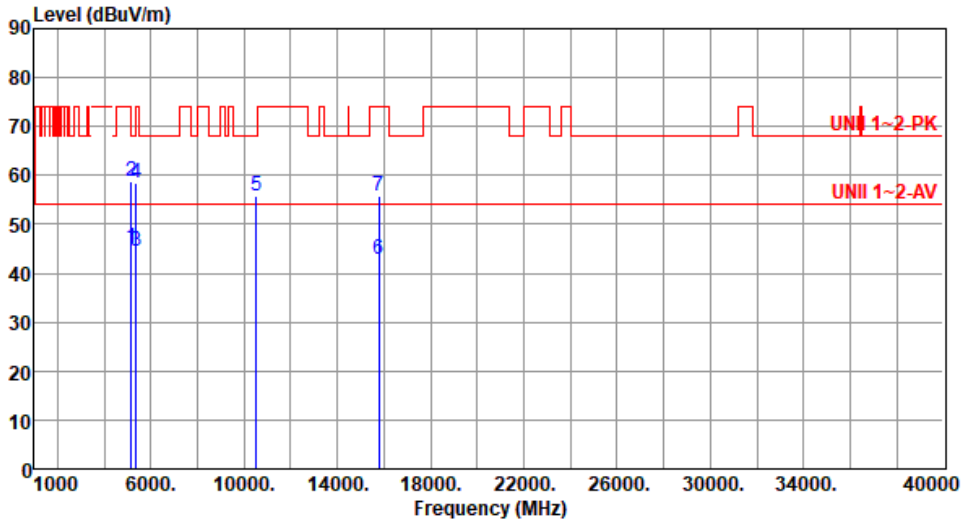


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	151	28
2	5150.00	58.81	74.00	-15.19	53.80	5.01	Peak	151	28
3	5350.00	44.64	54.00	-9.36	40.22	4.42	Average	151	28
4	5350.00	58.57	74.00	-15.43	54.15	4.42	Peak	151	28
5	10520.00	56.02	68.20	-12.18	41.55	14.47	Peak	100	90
6	15780.00	42.81	54.00	-11.19	29.33	13.48	Average	100	40
7	15780.00	55.82	74.00	-18.18	42.34	13.48	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

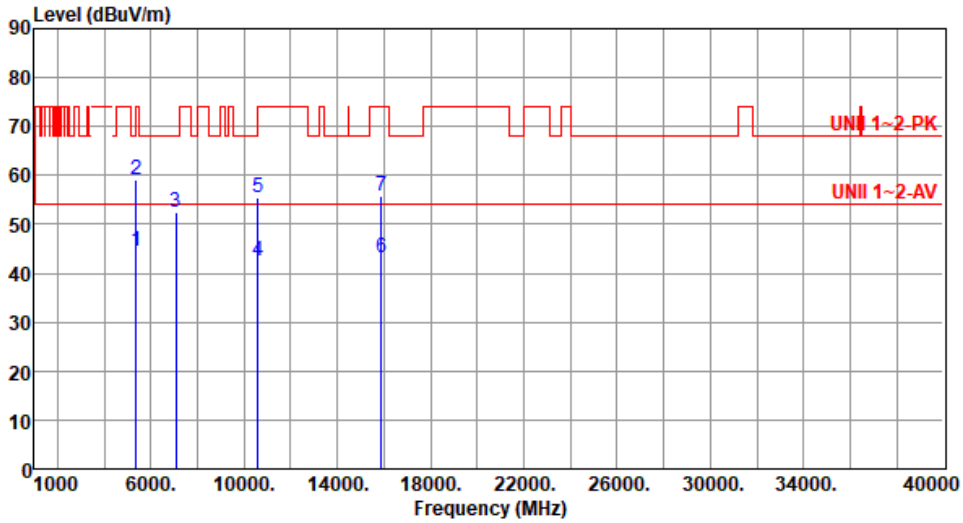


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.04	54.00	-8.96	40.03	5.01	Average	100	13
2	5150.00	58.68	74.00	-15.32	53.67	5.01	Peak	100	13
3	5350.00	44.47	54.00	-9.53	40.05	4.42	Average	100	13
4	5350.00	58.39	74.00	-15.61	53.97	4.42	Peak	100	13
5	10520.00	55.89	68.20	-12.31	41.42	14.47	Peak	100	50
6	15780.00	42.68	54.00	-11.32	29.20	13.48	Average	100	30
7	15780.00	55.63	74.00	-18.37	42.15	13.48	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

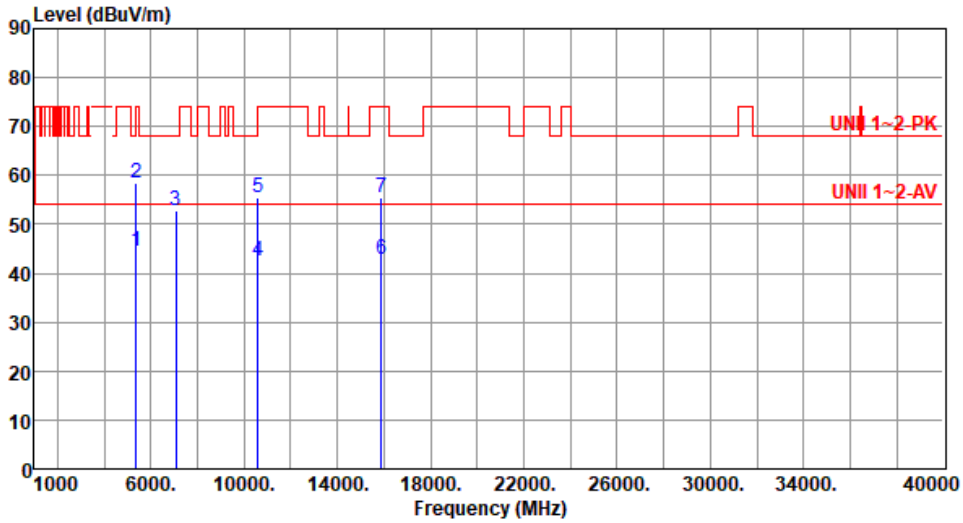


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.57	54.00	-9.43	40.15	4.42	Average	149	30
2	5350.00	59.01	74.00	-14.99	54.59	4.42	Peak	149	30
3	7066.66	52.48	68.20	-15.72	43.98	8.50	Peak	100	36
4	10600.00	42.51	54.00	-11.49	28.16	14.35	Average	100	50
5	10600.00	55.45	74.00	-18.55	41.10	14.35	Peak	100	50
6	15900.00	43.02	54.00	-10.98	29.45	13.57	Average	100	30
7	15900.00	55.72	74.00	-18.28	42.15	13.57	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5300
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

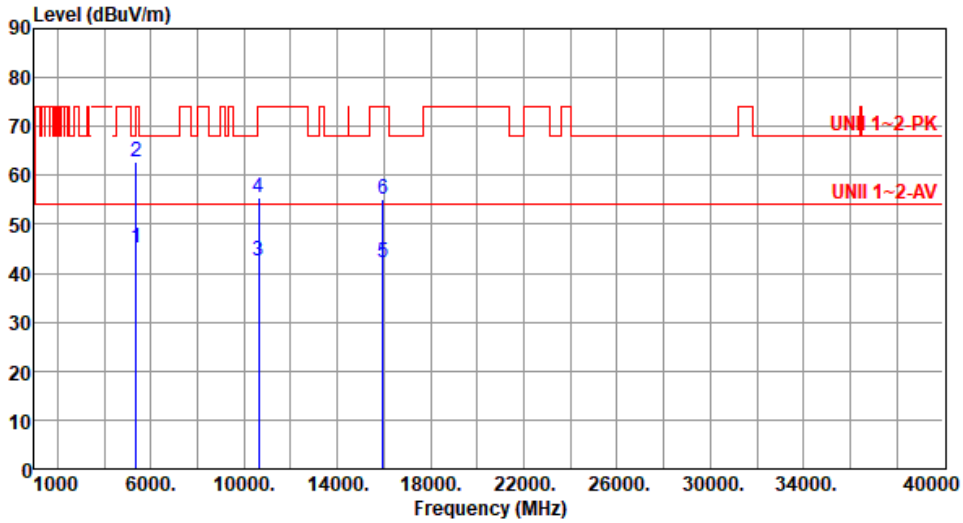


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.47	54.00	-9.53	40.05	4.42	Average	100	19
2	5350.00	58.40	74.00	-15.60	53.98	4.42	Peak	100	19
3	7066.66	52.82	68.20	-15.38	44.32	8.50	Peak	181	43
4	10600.00	42.46	54.00	-11.54	28.11	14.35	Average	100	60
5	10600.00	55.44	74.00	-18.56	41.09	14.35	Peak	100	60
6	15900.00	42.89	54.00	-11.11	29.32	13.57	Average	100	40
7	15900.00	55.55	74.00	-18.45	41.98	13.57	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5320
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

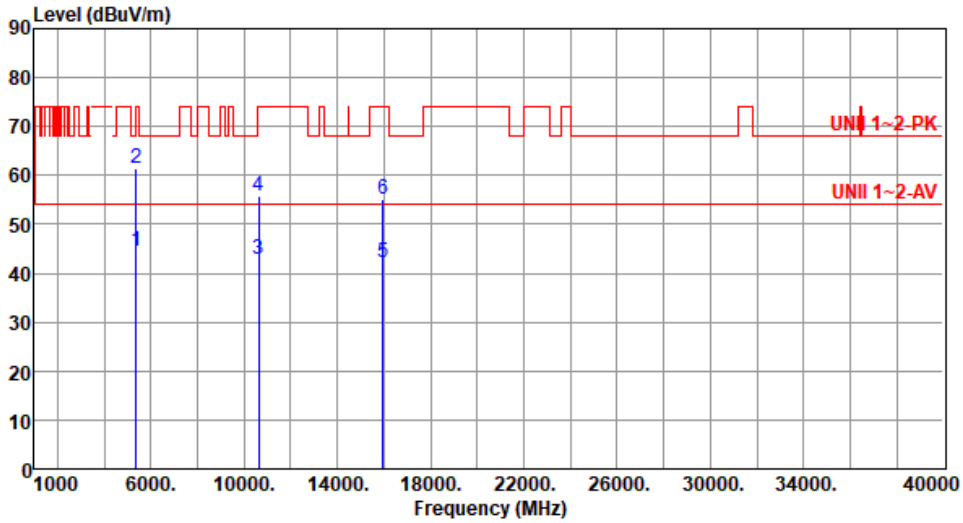


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.01	54.00	-8.99	40.59	4.42	Average	151	35
2	5350.00	62.70	74.00	-11.30	58.28	4.42	Peak	151	35
3	10640.00	42.64	54.00	-11.36	28.27	14.37	Average	100	20
4	10640.00	55.33	74.00	-18.67	40.96	14.37	Peak	100	20
5	15960.00	42.24	54.00	-11.76	28.56	13.68	Average	100	60
6	15960.00	55.27	74.00	-18.73	41.59	13.68	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5320
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

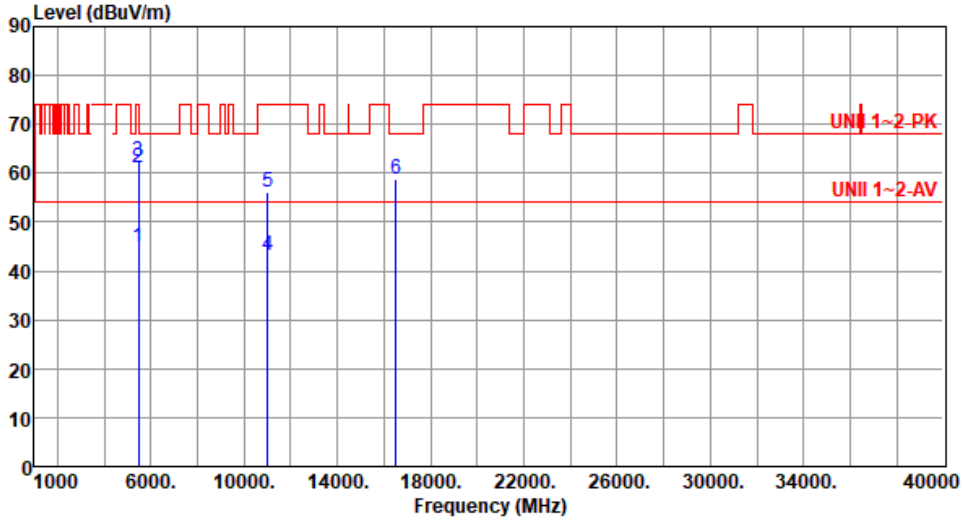


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.67	54.00	-9.33	40.25	4.42	Average	100	16
2	5350.00	61.57	74.00	-12.43	57.15	4.42	Peak	100	16
3	10640.00	42.74	54.00	-11.26	28.37	14.37	Average	100	60
4	10640.00	55.93	74.00	-18.07	41.56	14.37	Peak	100	60
5	15960.00	42.10	54.00	-11.90	28.42	13.68	Average	100	30
6	15960.00	55.11	74.00	-18.89	41.43	13.68	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

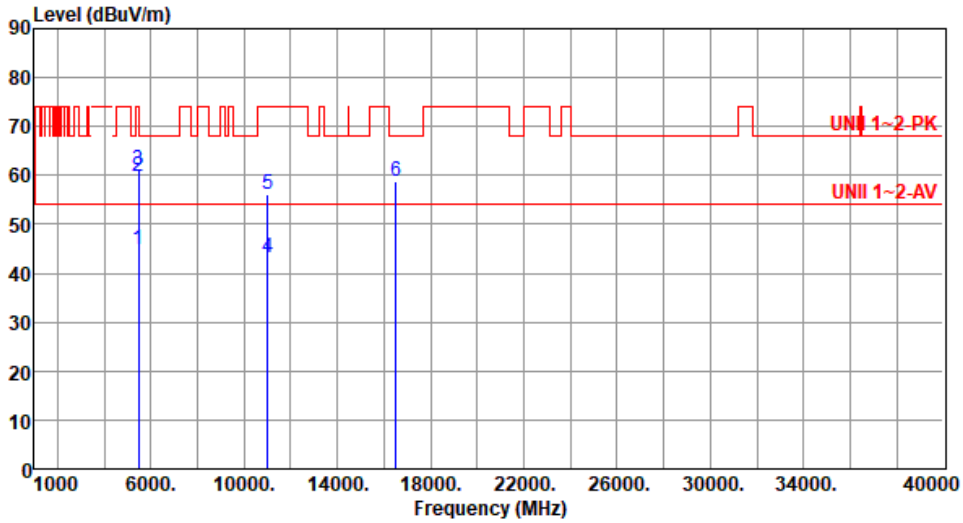


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.96	54.00	-9.04	40.29	4.67	Average	142	27
2	5460.00	61.27	74.00	-12.73	56.60	4.67	Peak	142	27
3	5470.00	62.39	68.20	-5.81	57.69	4.70	Peak	142	27
4	11000.00	43.21	54.00	-10.79	28.56	14.65	Average	100	50
5	11000.00	56.23	74.00	-17.77	41.58	14.65	Peak	100	50
6	16500.00	58.90	68.20	-9.30	42.56	16.34	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

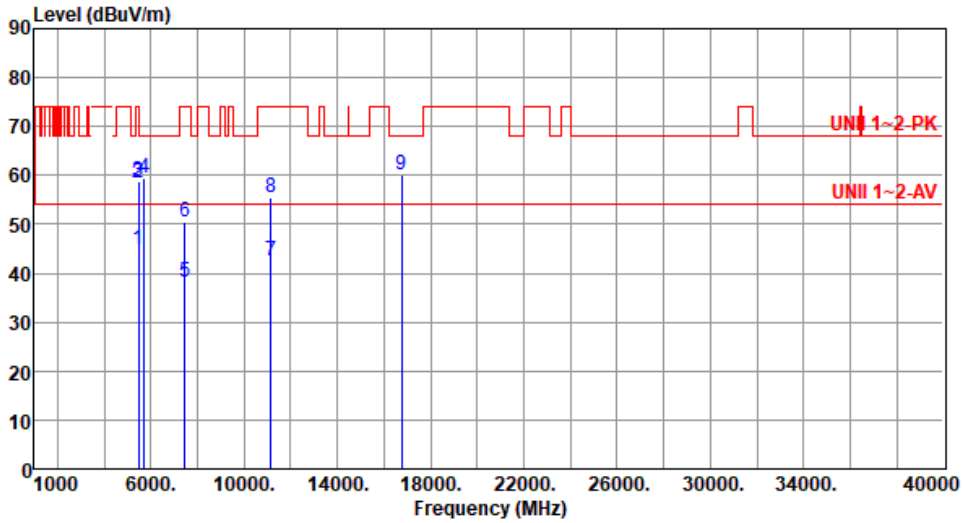


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.80	54.00	-9.20	40.13	4.67	Average	153	12
2	5460.00	59.81	74.00	-14.19	55.14	4.67	Peak	153	12
3	5470.00	61.25	68.20	-6.95	56.55	4.70	Peak	153	12
4	11000.00	43.07	54.00	-10.93	28.42	14.65	Average	100	30
5	11000.00	56.07	74.00	-17.93	41.42	14.65	Peak	100	30
6	16500.00	58.77	68.20	-9.43	42.43	16.34	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

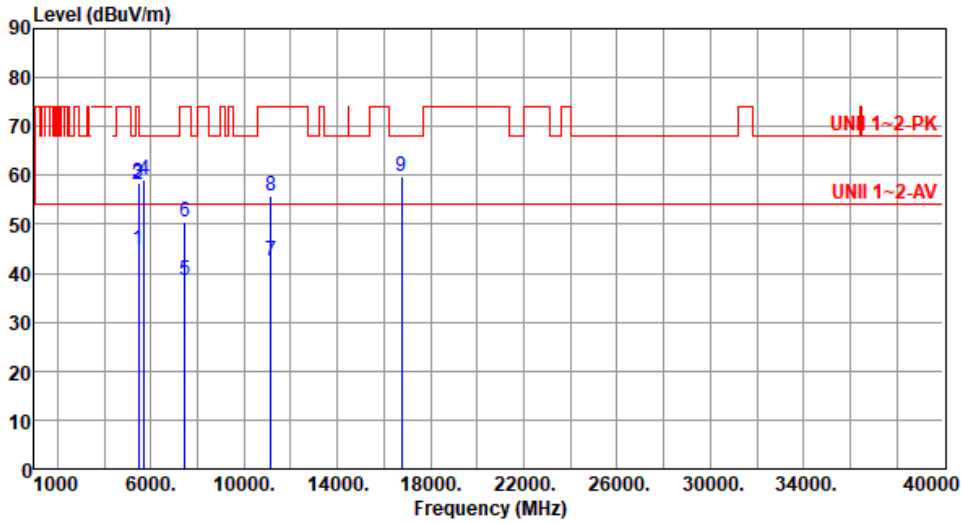


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.93	54.00	-9.07	40.26	4.67	Average	145	26
2	5460.00	58.57	74.00	-15.43	53.90	4.67	Peak	145	26
3	5470.00	58.92	68.20	-9.28	54.22	4.70	Peak	145	26
4	5725.00	59.32	68.20	-8.88	54.15	5.17	Peak	145	26
5	7440.00	38.27	54.00	-15.73	28.90	9.37	Average	100	42
6	7440.00	50.40	74.00	-23.60	41.03	9.37	Peak	100	42
7	11160.00	42.46	54.00	-11.54	28.49	13.97	Average	100	90
8	11160.00	55.61	74.00	-18.39	41.64	13.97	Peak	100	90
9	16740.00	60.06	68.20	-8.14	42.89	17.17	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

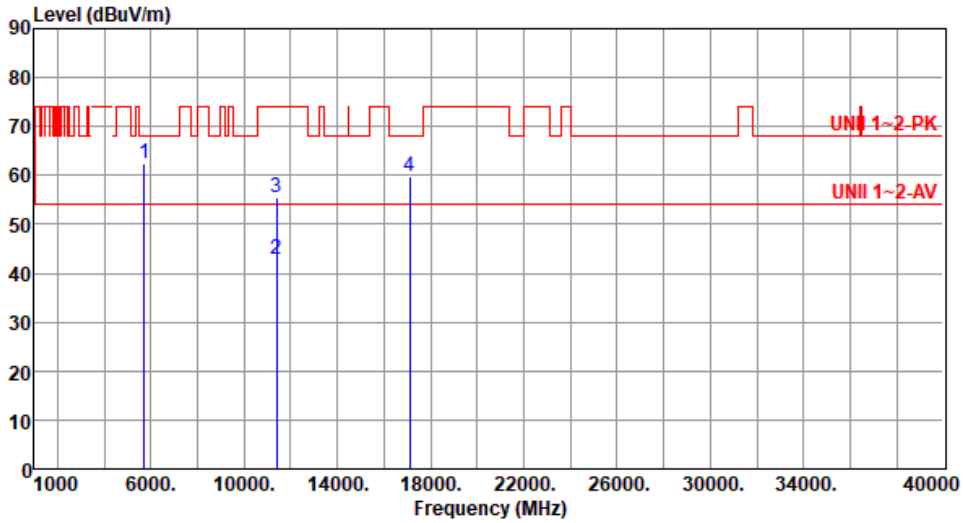


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.73	54.00	-9.27	40.06	4.67	Average	153	12
2	5460.00	58.27	74.00	-15.73	53.60	4.67	Peak	153	12
3	5470.00	58.37	68.20	-9.83	53.67	4.70	Peak	153	12
4	5725.00	59.05	68.20	-9.15	53.88	5.17	Peak	153	12
5	7440.00	38.64	54.00	-15.36	29.27	9.37	Average	172	50
6	7440.00	50.59	74.00	-23.41	41.22	9.37	Peak	172	50
7	11160.00	42.39	54.00	-11.61	28.42	13.97	Average	100	40
8	11160.00	55.76	74.00	-18.24	41.79	13.97	Peak	100	40
9	16740.00	59.73	68.20	-8.47	42.56	17.17	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

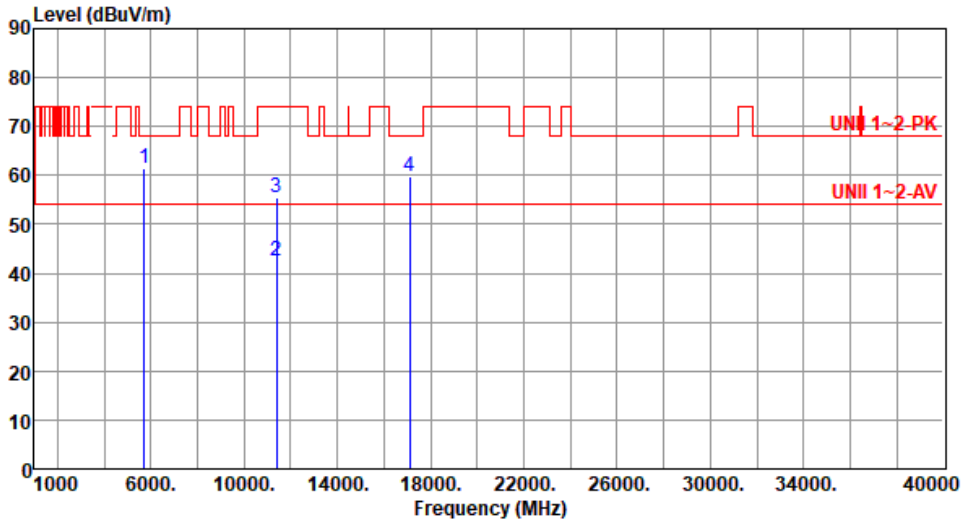


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	62.54	68.20	-5.66	57.37	5.17	Peak	104	25
2	11400.00	42.71	54.00	-11.29	28.57	14.14	Average	100	30
3	11400.00	55.61	74.00	-18.39	41.47	14.14	Peak	100	30
4	17100.00	59.77	68.20	-8.43	42.35	17.42	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

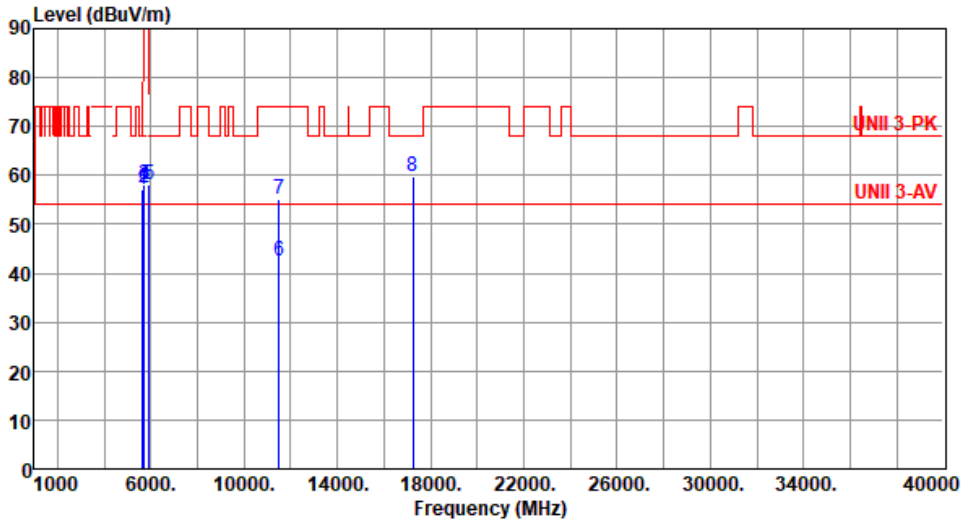


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	61.29	68.20	-6.91	56.12	5.17	Peak	158	12
2	11400.00	42.57	54.00	-11.43	28.43	14.14	Average	100	60
3	11400.00	55.43	74.00	-18.57	41.29	14.14	Peak	100	60
4	17100.00	59.88	68.20	-8.32	42.46	17.42	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

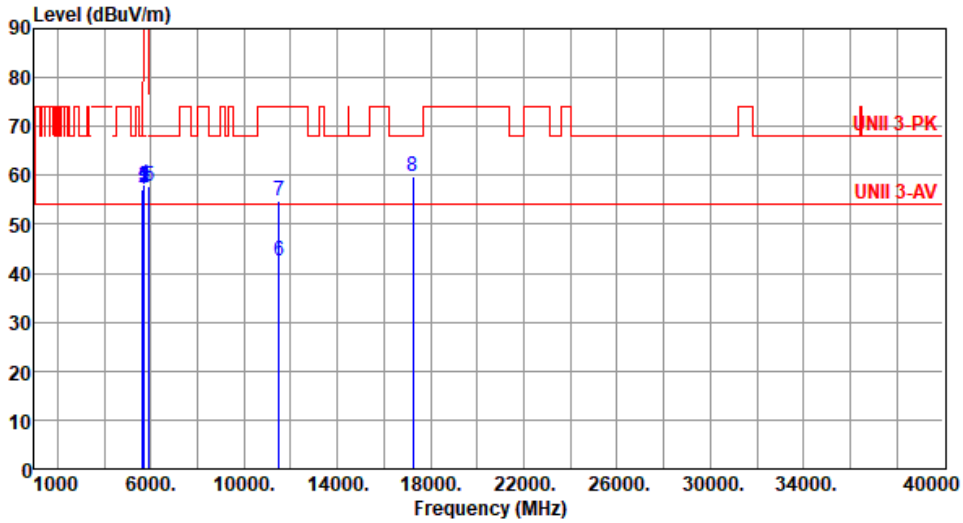


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.28	68.20	-10.92	52.47	4.81	Peak	105	26
2	5700.00	57.58	105.20	-47.62	52.56	5.02	Peak	105	26
3	5720.00	58.03	110.80	-52.77	52.89	5.14	Peak	105	26
4	5725.00	58.28	122.20	-63.92	53.11	5.17	Peak	105	26
5	5925.00	58.06	68.20	-10.14	52.45	5.61	Peak	105	26
6	11490.00	42.64	54.00	-11.36	28.25	14.39	Average	100	60
7	11490.00	54.98	74.00	-19.02	40.59	14.39	Peak	100	60
8	17235.00	59.92	68.20	-8.28	42.46	17.46	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

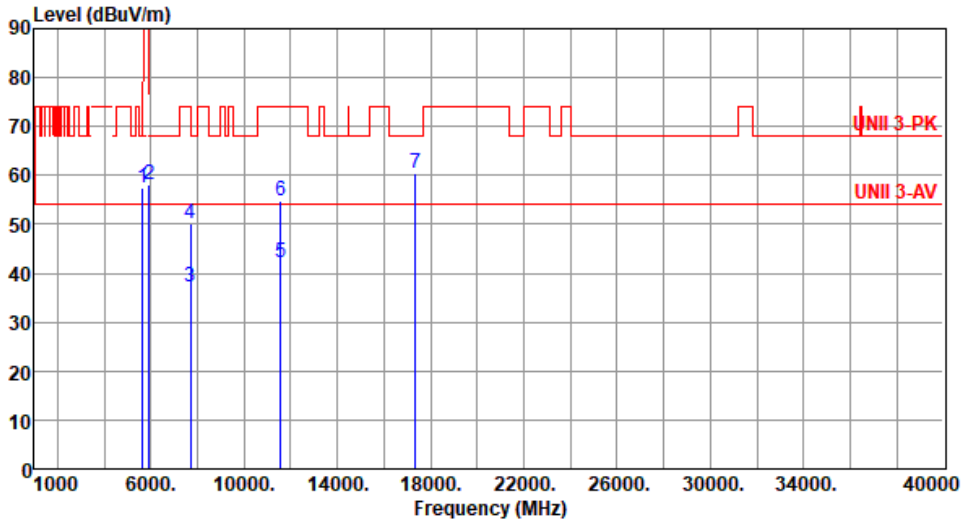


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.11	68.20	-11.09	52.30	4.81	Peak	150	11
2	5700.00	57.47	105.20	-47.73	52.45	5.02	Peak	150	11
3	5720.00	57.79	110.80	-53.01	52.65	5.14	Peak	150	11
4	5725.00	58.15	122.20	-64.05	52.98	5.17	Peak	150	11
5	5925.00	57.94	68.20	-10.26	52.33	5.61	Peak	150	11
6	11490.00	42.54	54.00	-11.46	28.15	14.39	Average	100	40
7	11490.00	54.65	74.00	-19.35	40.26	14.39	Peak	100	40
8	17235.00	59.79	68.20	-8.41	42.33	17.46	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

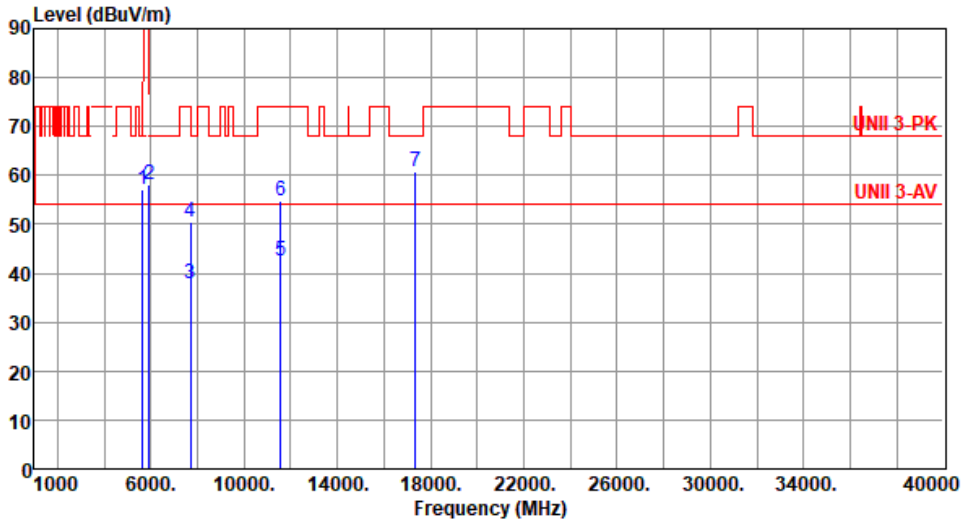


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.36	68.20	-10.84	52.55	4.81	Peak	106	33
2	5925.00	58.16	68.20	-10.04	52.55	5.61	Peak	106	33
3	7713.33	37.36	54.00	-16.64	28.59	8.77	Average	100	40
4	7713.33	50.22	74.00	-23.78	41.45	8.77	Peak	100	40
5	11570.00	42.30	54.00	-11.70	28.05	14.25	Average	100	90
6	11570.00	54.70	74.00	-19.30	40.45	14.25	Peak	100	90
7	17355.00	60.48	68.20	-7.72	42.57	17.91	Peak	100	100

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

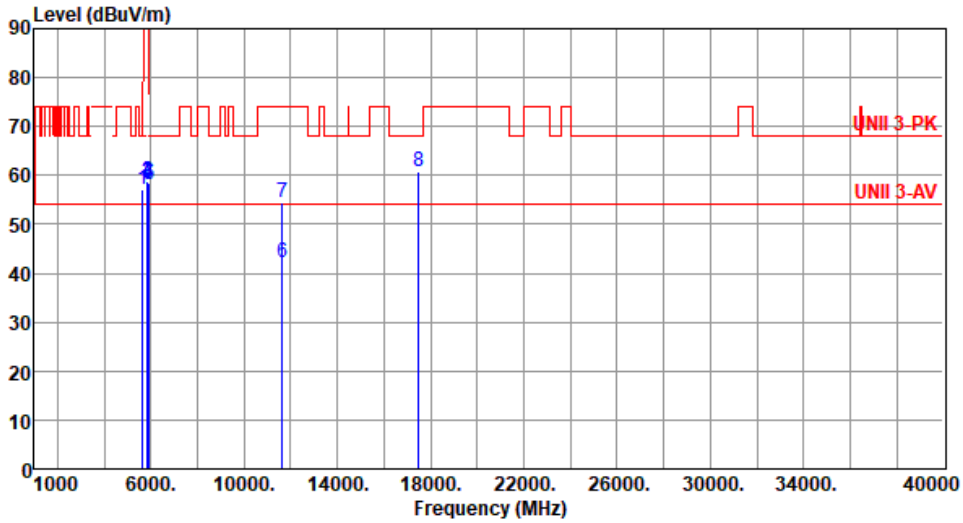


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.05	68.20	-11.15	52.24	4.81	Peak	159	16
2	5925.00	58.04	68.20	-10.16	52.43	5.61	Peak	159	16
3	7713.33	37.82	54.00	-16.18	29.05	8.77	Average	178	73
4	7713.33	50.39	74.00	-23.61	41.62	8.77	Peak	178	73
5	11570.00	42.37	54.00	-11.63	28.12	14.25	Average	100	60
6	11570.00	54.86	74.00	-19.14	40.61	14.25	Peak	100	60
7	17355.00	60.81	68.20	-7.39	42.90	17.91	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

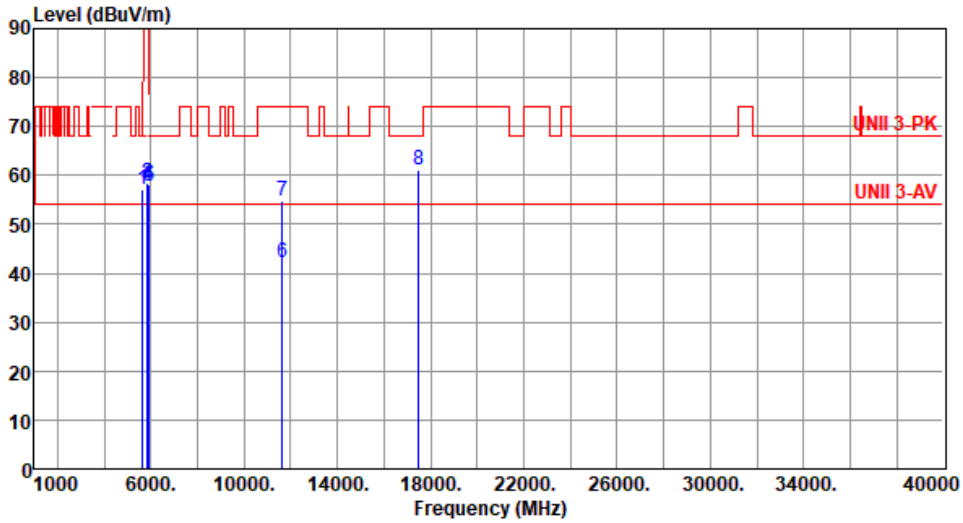


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.25	68.20	-10.95	52.44	4.81	Peak	109	32
2	5850.00	58.80	122.20	-63.40	53.15	5.65	Peak	109	32
3	5855.00	58.59	110.80	-52.21	52.94	5.65	Peak	109	32
4	5875.00	58.29	105.20	-46.91	52.63	5.66	Peak	109	32
5	5925.00	58.06	68.20	-10.14	52.45	5.61	Peak	109	32
6	11650.00	42.12	54.00	-11.88	28.22	13.90	Average	100	60
7	11650.00	54.46	74.00	-19.54	40.56	13.90	Peak	100	60
8	17475.00	60.85	68.20	-7.35	42.30	18.55	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



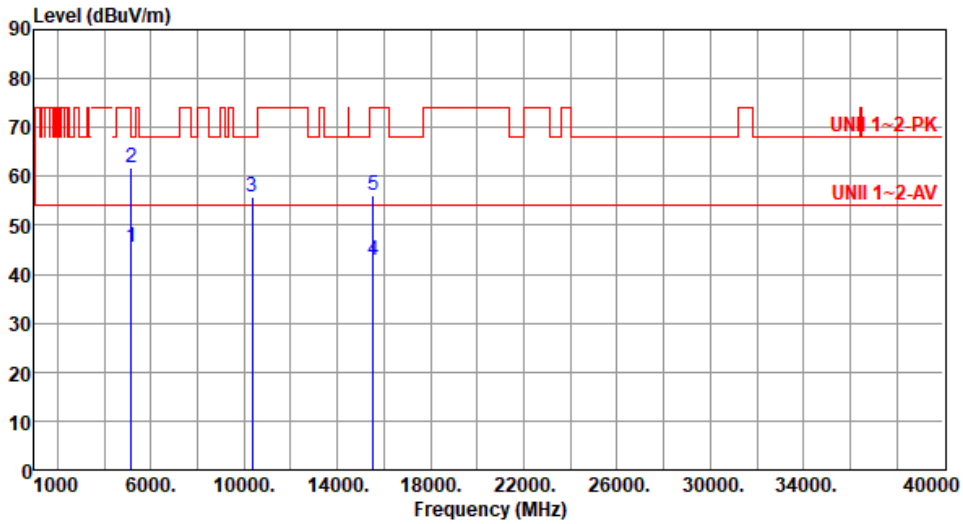
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.05	68.20	-11.15	52.24	4.81	Peak	149	12
2	5850.00	58.54	122.20	-63.66	52.89	5.65	Peak	149	12
3	5855.00	58.40	110.80	-52.40	52.75	5.65	Peak	149	12
4	5875.00	58.13	105.20	-47.07	52.47	5.66	Peak	149	12
5	5925.00	57.74	68.20	-10.46	52.13	5.61	Peak	149	12
6	11650.00	42.25	54.00	-11.75	28.35	13.90	Average	100	50
7	11650.00	54.66	74.00	-19.34	40.76	13.90	Peak	100	50
8	17475.00	60.99	68.20	-7.21	42.44	18.55	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Unwanted Emissions (Above 1GHz) for ac VHT20

Modulation	ac VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

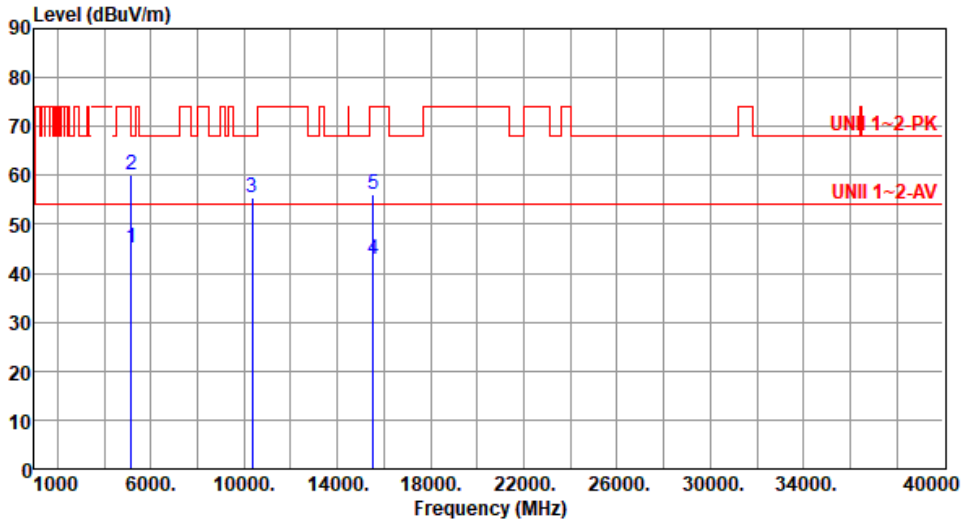


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.40	54.00	-8.60	40.39	5.01	Average	105	27
2	5150.00	61.91	74.00	-12.09	56.90	5.01	Peak	105	27
3	10360.00	55.67	68.20	-12.53	41.46	14.21	Peak	100	40
4	15540.00	42.90	54.00	-11.10	29.26	13.64	Average	100	30
5	15540.00	56.18	74.00	-17.82	42.54	13.64	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5180
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

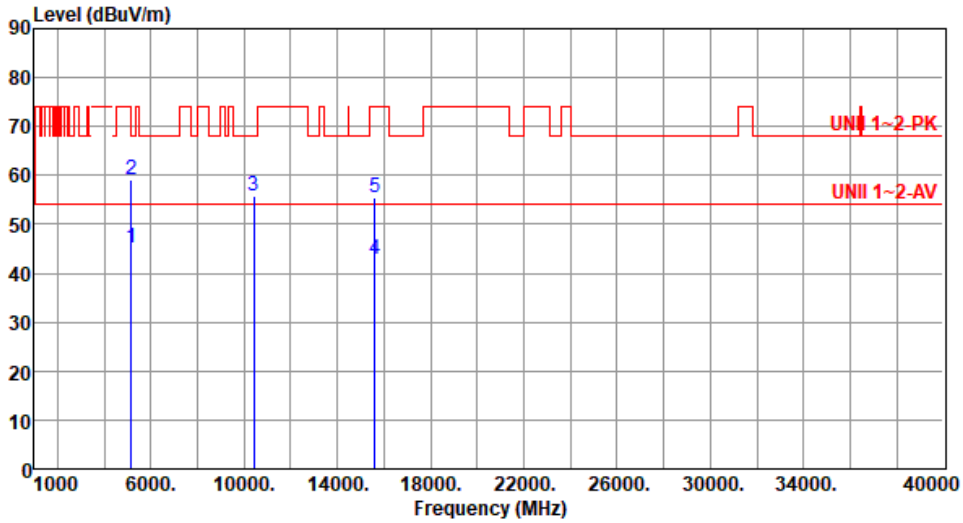


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.20	54.00	-8.80	40.19	5.01	Average	100	16
2	5150.00	60.13	74.00	-13.87	55.12	5.01	Peak	100	16
3	10360.00	55.57	68.20	-12.63	41.36	14.21	Peak	100	60
4	15540.00	42.91	54.00	-11.09	29.27	13.64	Average	100	90
5	15540.00	56.09	74.00	-17.91	42.45	13.64	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

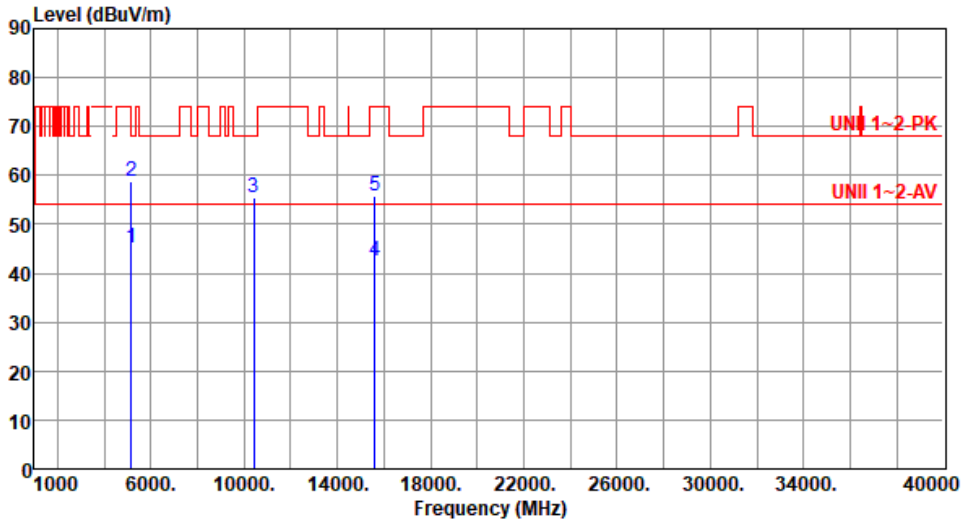


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.18	54.00	-8.82	40.17	5.01	Average	102	28
2	5150.00	59.20	74.00	-14.80	54.19	5.01	Peak	102	28
3	10400.00	55.68	68.20	-12.52	41.35	14.33	Peak	100	55
4	15600.00	42.68	54.00	-11.32	29.35	13.33	Average	100	20
5	15600.00	55.52	74.00	-18.48	42.19	13.33	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5200
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

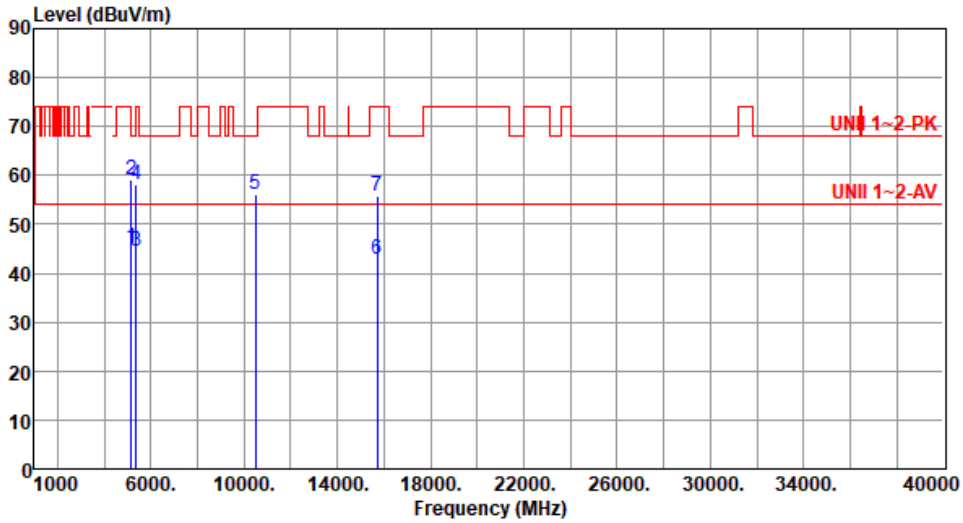


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	100	15
2	5150.00	58.80	74.00	-15.20	53.79	5.01	Peak	100	15
3	10400.00	55.55	68.20	-12.65	41.22	14.33	Peak	100	30
4	15600.00	42.60	54.00	-11.40	29.27	13.33	Average	100	70
5	15600.00	55.79	74.00	-18.21	42.46	13.33	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

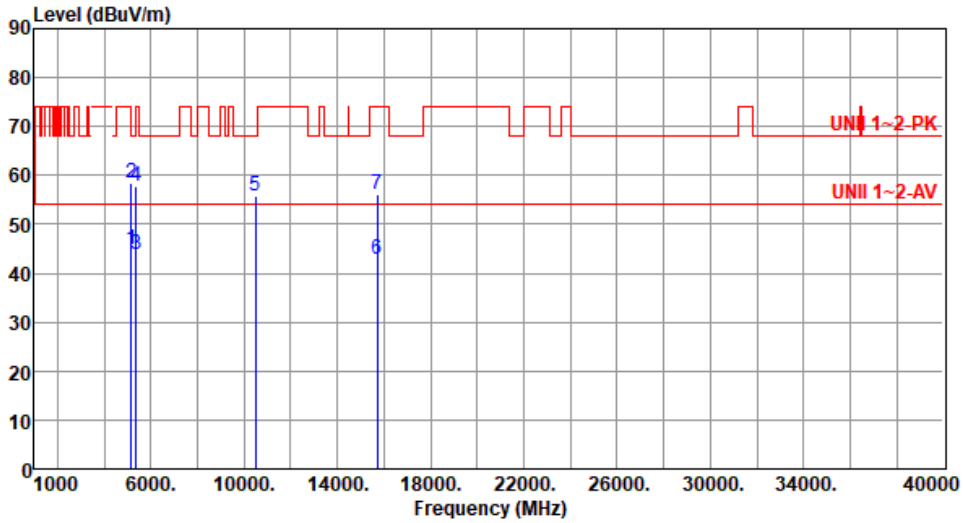


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.28	54.00	-8.72	40.27	5.01	Average	105	31
2	5150.00	59.28	74.00	-14.72	54.27	5.01	Peak	105	31
3	5350.00	44.47	54.00	-9.53	40.05	4.42	Average	105	31
4	5350.00	58.19	74.00	-15.81	53.77	4.42	Peak	105	31
5	10480.00	56.01	68.20	-12.19	41.55	14.46	Peak	100	50
6	15720.00	42.68	54.00	-11.32	29.26	13.42	Average	100	60
7	15720.00	55.74	74.00	-18.26	42.32	13.42	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

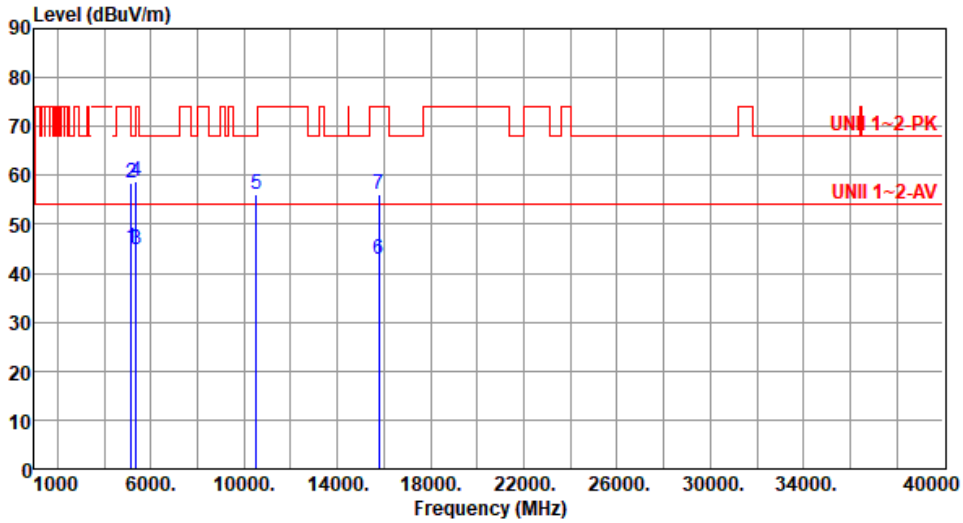


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.90	54.00	-9.10	39.89	5.01	Average	100	17
2	5150.00	58.47	74.00	-15.53	53.46	5.01	Peak	100	17
3	5350.00	43.97	54.00	-10.03	39.55	4.42	Average	100	17
4	5350.00	57.77	74.00	-16.23	53.35	4.42	Peak	100	17
5	10480.00	55.72	68.20	-12.48	41.26	14.46	Peak	100	55
6	15720.00	42.74	54.00	-11.26	29.32	13.42	Average	100	100
7	15720.00	56.04	74.00	-17.96	42.62	13.42	Peak	100	100

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

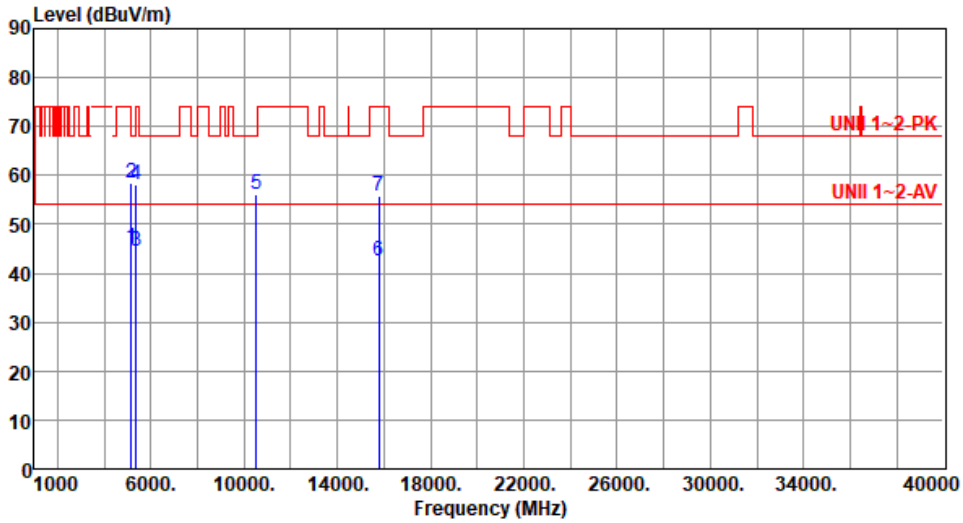


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.27	54.00	-8.73	40.26	5.01	Average	149	28
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	149	28
3	5350.00	44.77	54.00	-9.23	40.35	4.42	Average	149	28
4	5350.00	58.75	74.00	-15.25	54.33	4.42	Peak	149	28
5	10520.00	56.14	68.20	-12.06	41.67	14.47	Peak	100	70
6	15780.00	42.70	54.00	-11.30	29.22	13.48	Average	100	30
7	15780.00	56.01	74.00	-17.99	42.53	13.48	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5260
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

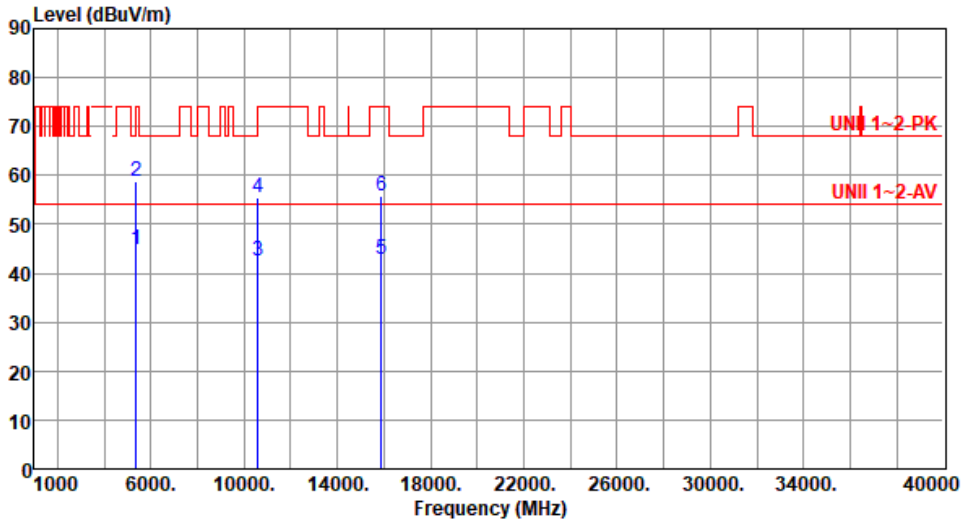


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.04	54.00	-8.96	40.03	5.01	Average	100	14
2	5150.00	58.57	74.00	-15.43	53.56	5.01	Peak	100	14
3	5350.00	44.53	54.00	-9.47	40.11	4.42	Average	100	14
4	5350.00	58.22	74.00	-15.78	53.80	4.42	Peak	100	14
5	10520.00	56.02	68.20	-12.18	41.55	14.47	Peak	100	90
6	15780.00	42.62	54.00	-11.38	29.14	13.48	Average	100	15
7	15780.00	55.69	74.00	-18.31	42.21	13.48	Peak	100	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

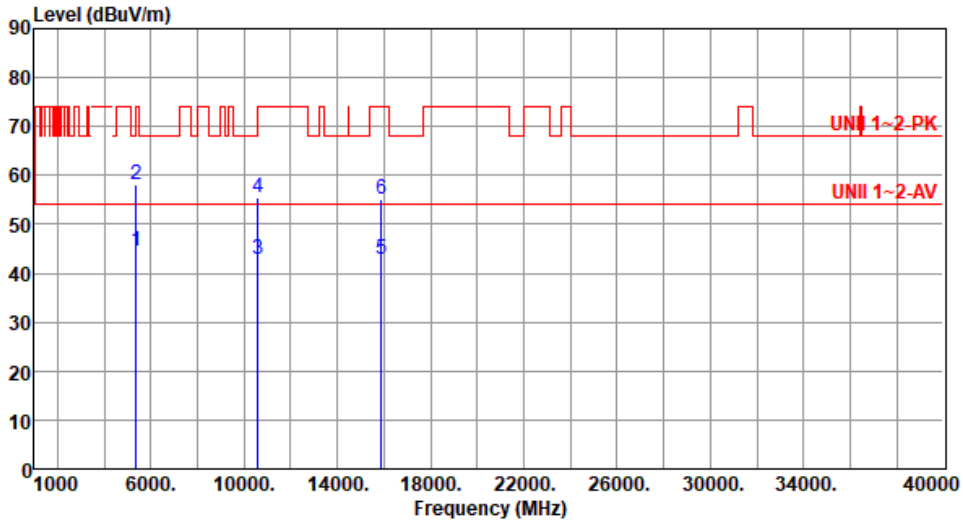


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.68	54.00	-9.32	40.26	4.42	Average	151	22
2	5350.00	58.88	74.00	-15.12	54.46	4.42	Peak	151	22
3	10600.00	42.61	54.00	-11.39	28.26	14.35	Average	100	60
4	10600.00	55.61	74.00	-18.39	41.26	14.35	Peak	100	60
5	15900.00	42.88	54.00	-11.12	29.31	13.57	Average	100	30
6	15900.00	55.90	74.00	-18.10	42.33	13.57	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5300
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

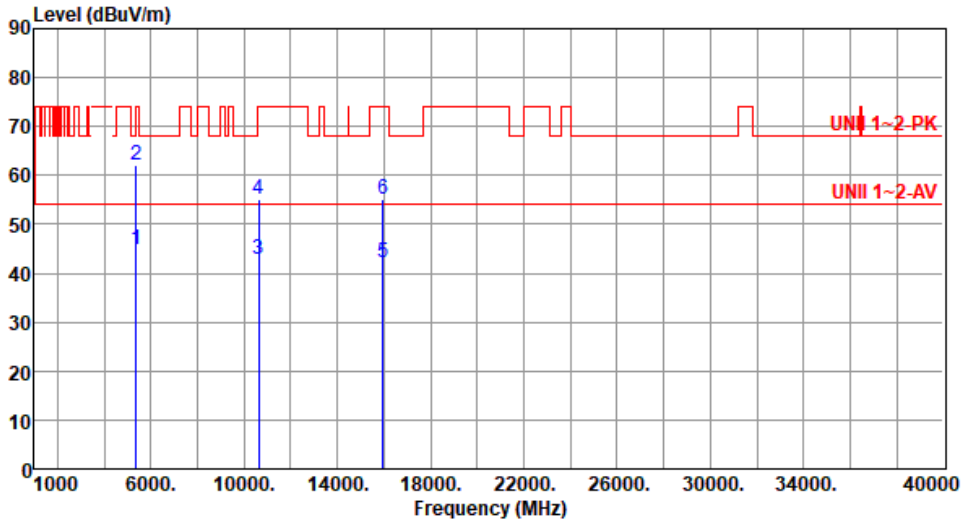


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.67	54.00	-9.33	40.25	4.42	Average	100	19
2	5350.00	58.20	74.00	-15.80	53.78	4.42	Peak	100	19
3	10600.00	42.68	54.00	-11.32	28.33	14.35	Average	100	40
4	10600.00	55.60	74.00	-18.40	41.25	14.35	Peak	100	40
5	15900.00	42.68	54.00	-11.32	29.11	13.57	Average	100	90
6	15900.00	55.13	74.00	-18.87	41.56	13.57	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5320
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

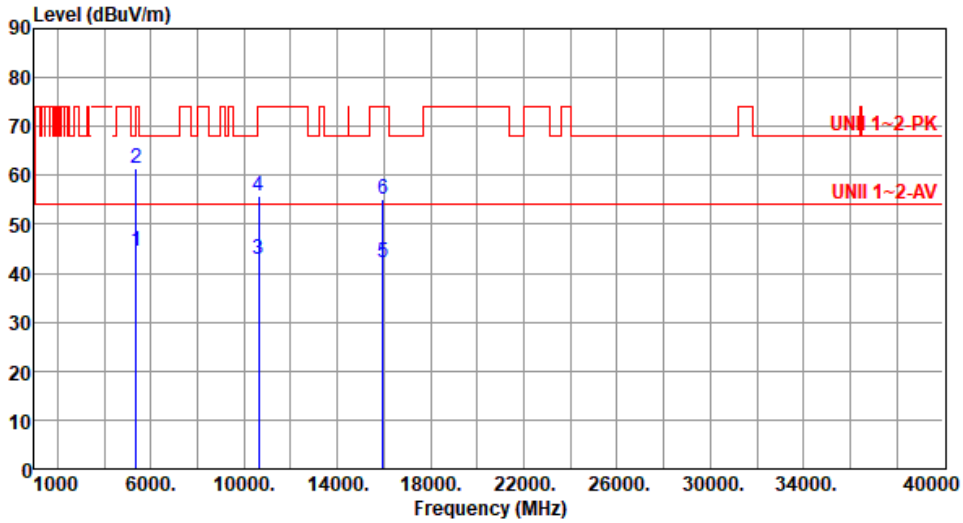


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.84	54.00	-9.16	40.42	4.42	Average	149	31
2	5350.00	62.01	74.00	-11.99	57.59	4.42	Peak	149	31
3	10640.00	42.71	54.00	-11.29	28.34	14.37	Average	100	30
4	10640.00	55.12	74.00	-18.88	40.75	14.37	Peak	100	30
5	15960.00	42.10	54.00	-11.90	28.42	13.68	Average	100	50
6	15960.00	55.14	74.00	-18.86	41.46	13.68	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5320
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

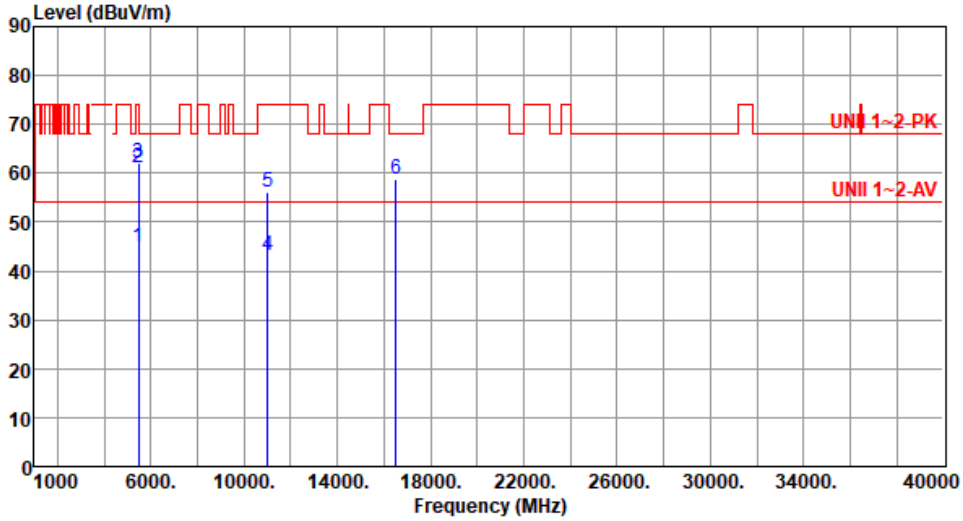


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.67	54.00	-9.33	40.25	4.42	Average	100	16
2	5350.00	61.57	74.00	-12.43	57.15	4.42	Peak	100	16
3	10640.00	42.74	54.00	-11.26	28.37	14.37	Average	100	60
4	10640.00	55.93	74.00	-18.07	41.56	14.37	Peak	100	60
5	15960.00	42.10	54.00	-11.90	28.42	13.68	Average	100	30
6	15960.00	55.11	74.00	-18.89	41.43	13.68	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

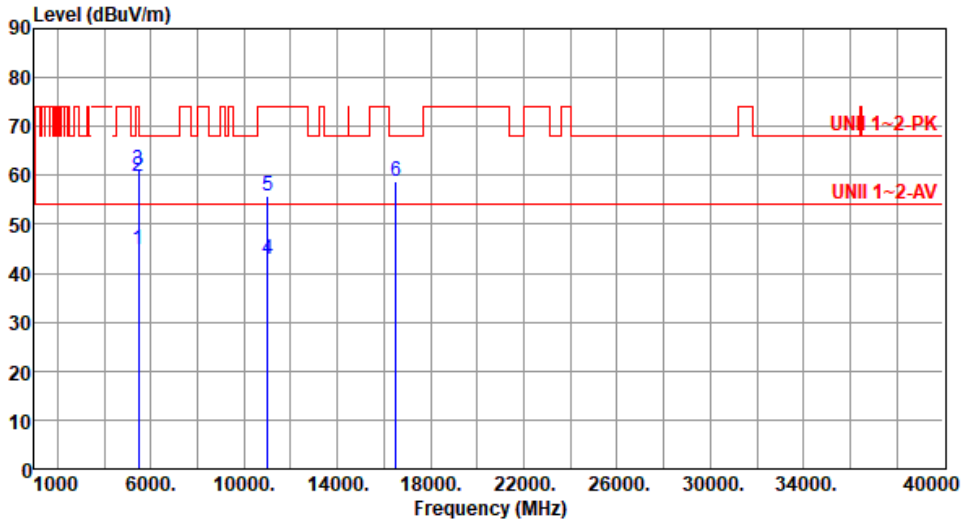


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.16	4.67	Average	139	29
2	5460.00	61.10	74.00	-12.90	56.43	4.67	Peak	139	29
3	5470.00	62.15	68.20	-6.05	57.45	4.70	Peak	139	29
4	11000.00	43.07	54.00	-10.93	28.42	14.65	Average	100	30
5	11000.00	56.05	74.00	-17.95	41.40	14.65	Peak	100	30
6	16500.00	58.82	68.20	-9.38	42.48	16.34	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

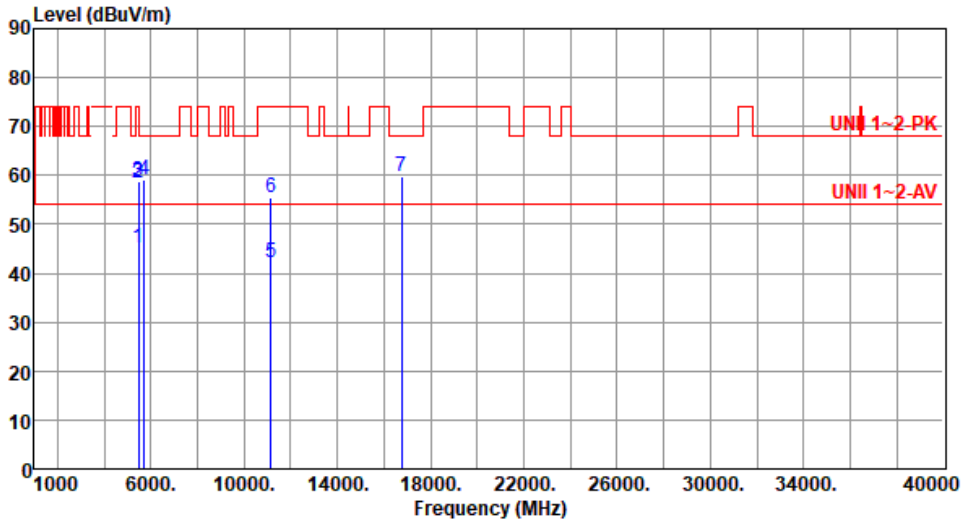


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.70	54.00	-9.30	40.03	4.67	Average	144	12
2	5460.00	59.77	74.00	-14.23	55.10	4.67	Peak	144	12
3	5470.00	61.19	68.20	-7.01	56.49	4.70	Peak	144	12
4	11000.00	42.96	54.00	-11.04	28.31	14.65	Average	100	50
5	11000.00	55.91	74.00	-18.09	41.26	14.65	Peak	100	50
6	16500.00	58.80	68.20	-9.40	42.46	16.34	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

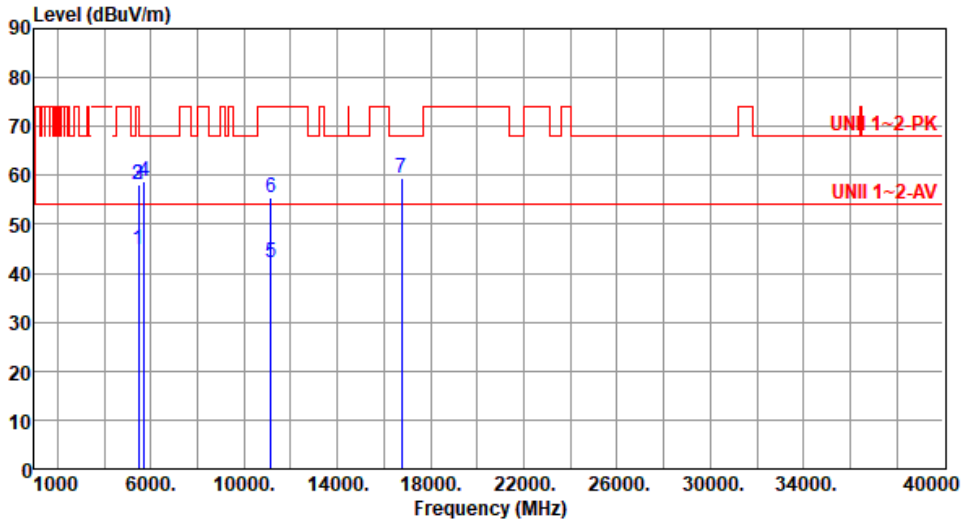


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.03	54.00	-8.97	40.36	4.67	Average	142	26
2	5460.00	58.47	74.00	-15.53	53.80	4.67	Peak	142	26
3	5470.00	58.81	68.20	-9.39	54.11	4.70	Peak	142	26
4	5725.00	59.23	68.20	-8.97	54.06	5.17	Peak	142	26
5	11160.00	42.29	54.00	-11.71	28.32	13.97	Average	100	70
6	11160.00	55.53	74.00	-18.47	41.56	13.97	Peak	100	70
7	16740.00	59.83	68.20	-8.37	42.66	17.17	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

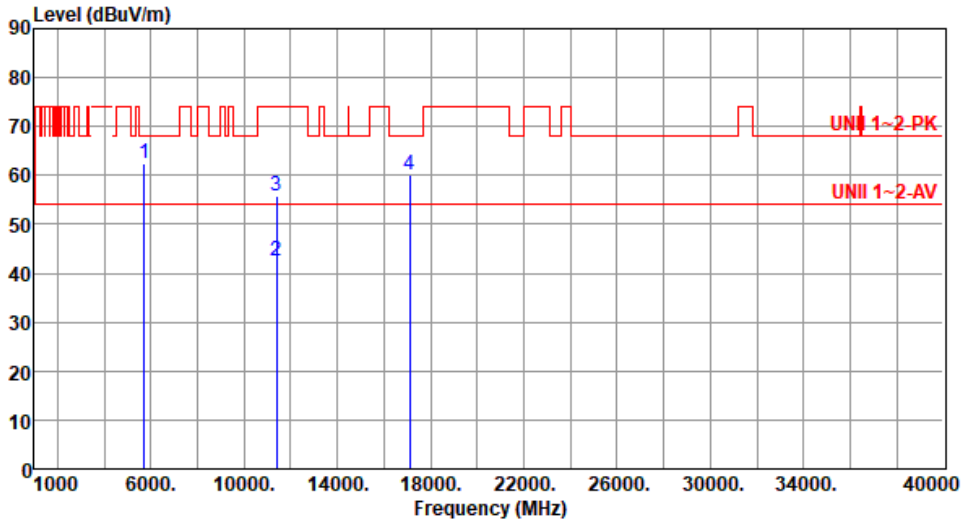


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.76	54.00	-9.24	40.09	4.67	Average	146	15
2	5460.00	58.17	74.00	-15.83	53.50	4.67	Peak	146	15
3	5470.00	58.25	68.20	-9.95	53.55	4.70	Peak	146	15
4	5725.00	58.92	68.20	-9.28	53.75	5.17	Peak	146	15
5	11160.00	42.28	54.00	-11.72	28.31	13.97	Average	100	30
6	11160.00	55.53	74.00	-18.47	41.56	13.97	Peak	100	30
7	16740.00	59.59	68.20	-8.61	42.42	17.17	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

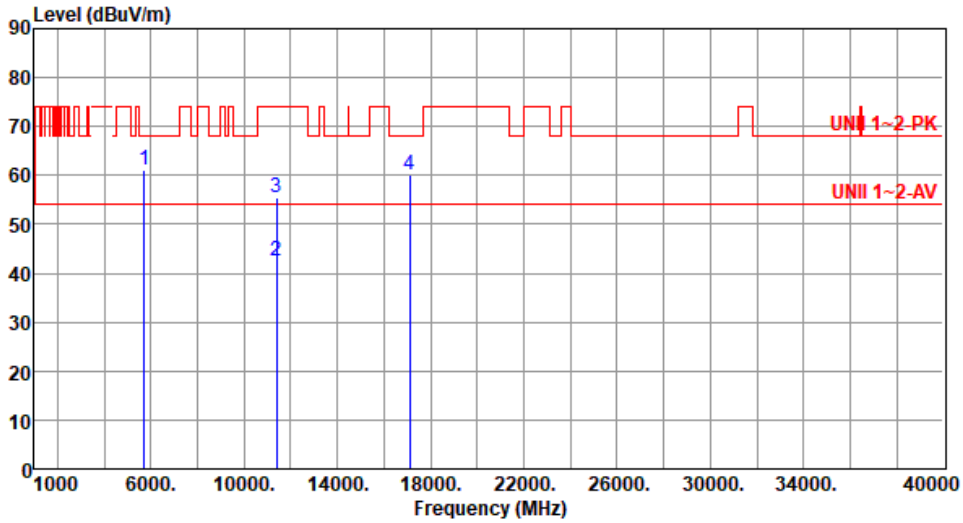


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	62.32	68.20	-5.88	57.15	5.17	Peak	105	31
2	11400.00	42.57	54.00	-11.43	28.43	14.14	Average	100	60
3	11400.00	55.71	74.00	-18.29	41.57	14.14	Peak	100	60
4	17100.00	59.98	68.20	-8.22	42.56	17.42	Peak	100	110

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

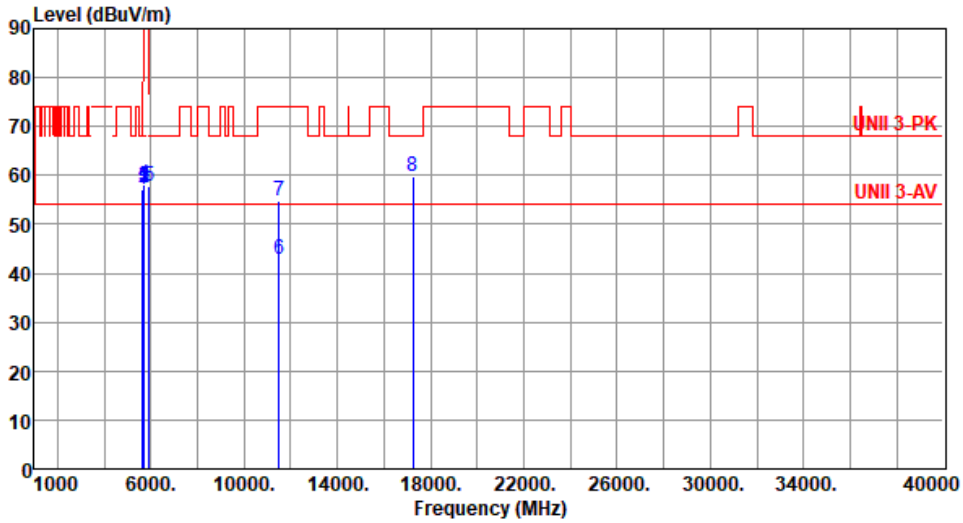


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	61.15	68.20	-7.05	55.98	5.17	Peak	161	13
2	11400.00	42.41	54.00	-11.59	28.27	14.14	Average	100	55
3	11400.00	55.33	74.00	-18.67	41.19	14.14	Peak	100	55
4	17100.00	59.96	68.20	-8.24	42.54	17.42	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

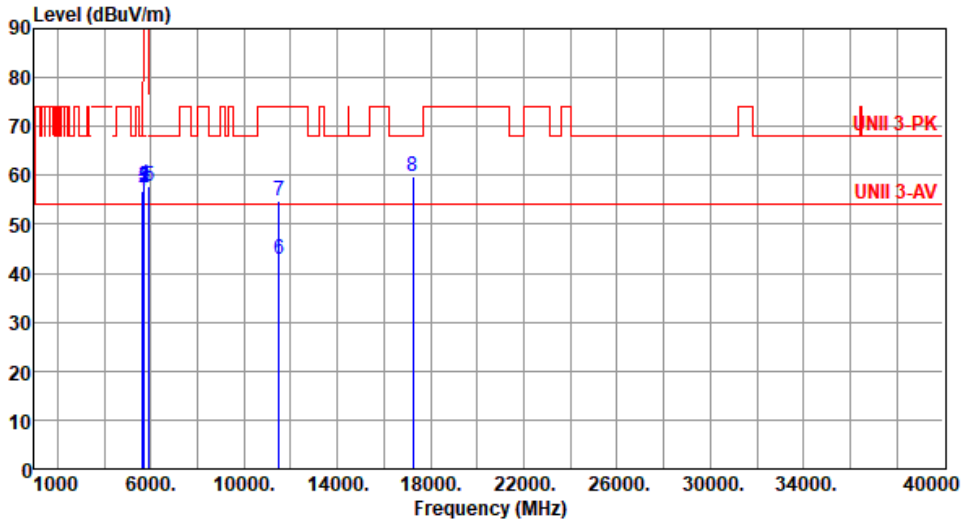


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.11	68.20	-11.09	52.30	4.81	Peak	106	26
2	5700.00	57.50	105.20	-47.70	52.48	5.02	Peak	106	26
3	5720.00	57.91	110.80	-52.89	52.77	5.14	Peak	106	26
4	5725.00	58.20	122.20	-64.00	53.03	5.17	Peak	106	26
5	5925.00	57.92	68.20	-10.28	52.31	5.61	Peak	106	26
6	11490.00	42.70	54.00	-11.30	28.31	14.39	Average	100	50
7	11490.00	54.82	74.00	-19.18	40.43	14.39	Peak	100	50
8	17235.00	59.74	68.20	-8.46	42.28	17.46	Peak	100	150

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

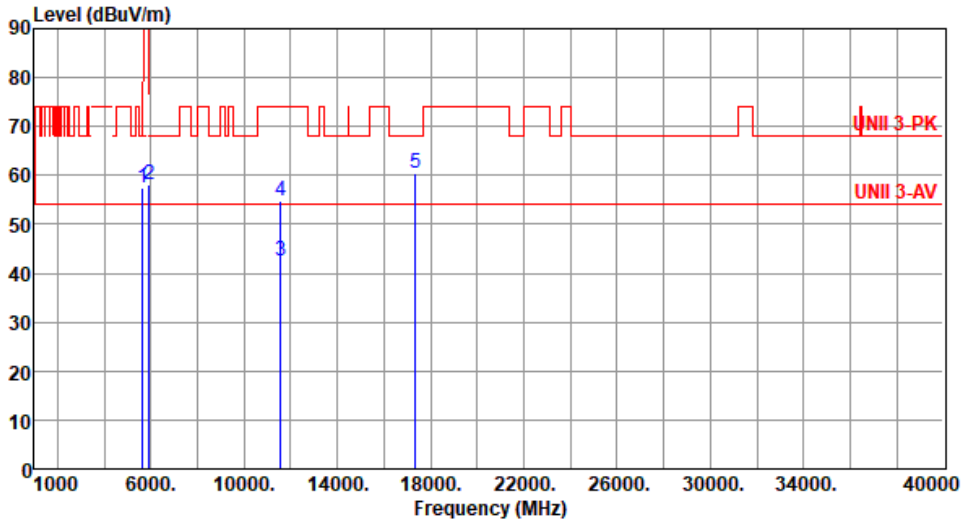


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.95	68.20	-11.25	52.14	4.81	Peak	149	11
2	5700.00	57.33	105.20	-47.87	52.31	5.02	Peak	149	11
3	5720.00	57.68	110.80	-53.12	52.54	5.14	Peak	149	11
4	5725.00	58.04	122.20	-64.16	52.87	5.17	Peak	149	11
5	5925.00	57.87	68.20	-10.33	52.26	5.61	Peak	149	11
6	11490.00	42.68	54.00	-11.32	28.29	14.39	Average	100	30
7	11490.00	54.93	74.00	-19.07	40.54	14.39	Peak	100	30
8	17235.00	59.91	68.20	-8.29	42.45	17.46	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

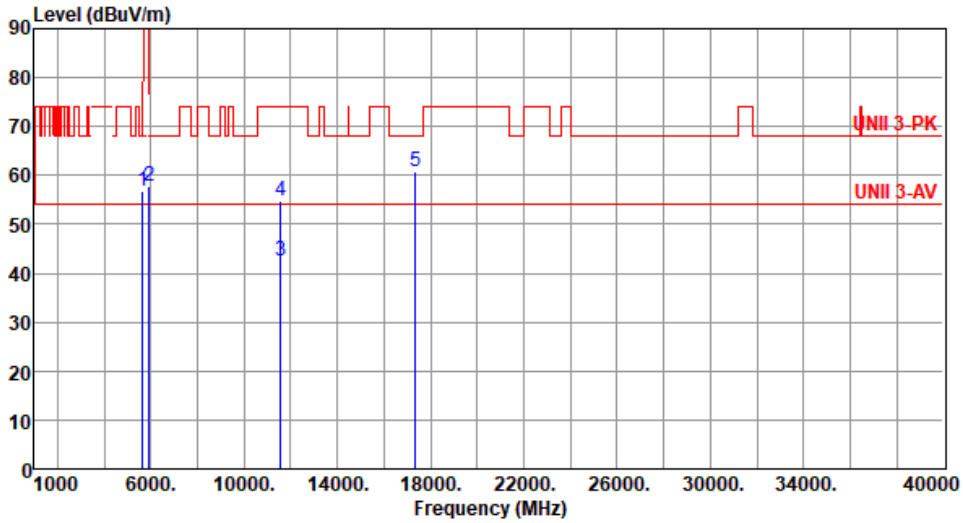


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.29	68.20	-10.91	52.48	4.81	Peak	106	33
2	5925.00	58.07	68.20	-10.13	52.46	5.61	Peak	106	33
3	11570.00	42.50	54.00	-11.50	28.25	14.25	Average	100	80
4	11570.00	54.84	74.00	-19.16	40.59	14.25	Peak	100	80
5	17355.00	60.38	68.20	-7.82	42.47	17.91	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

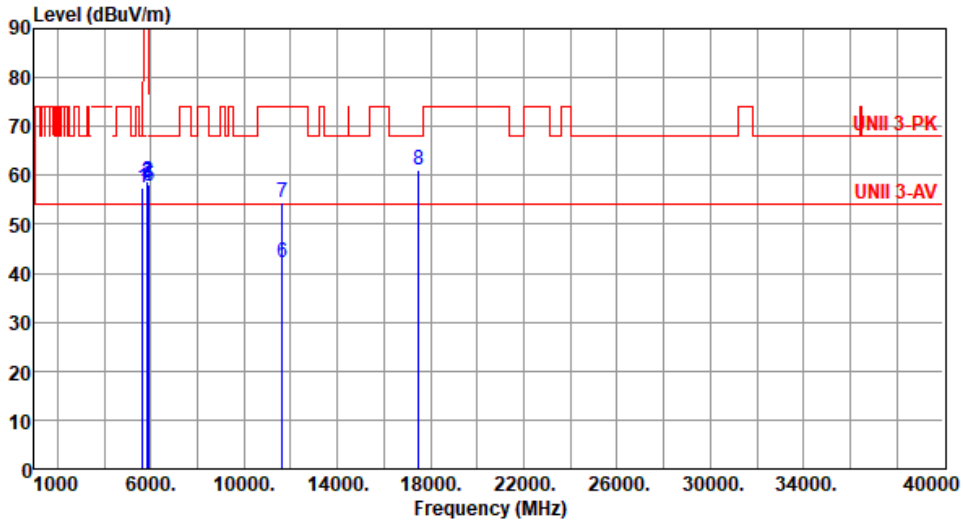


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.93	68.20	-11.27	52.12	4.81	Peak	151	18
2	5925.00	57.92	68.20	-10.28	52.31	5.61	Peak	151	18
3	11570.00	42.51	54.00	-11.49	28.26	14.25	Average	100	50
4	11570.00	54.70	74.00	-19.30	40.45	14.25	Peak	100	50
5	17355.00	60.66	68.20	-7.54	42.75	17.91	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

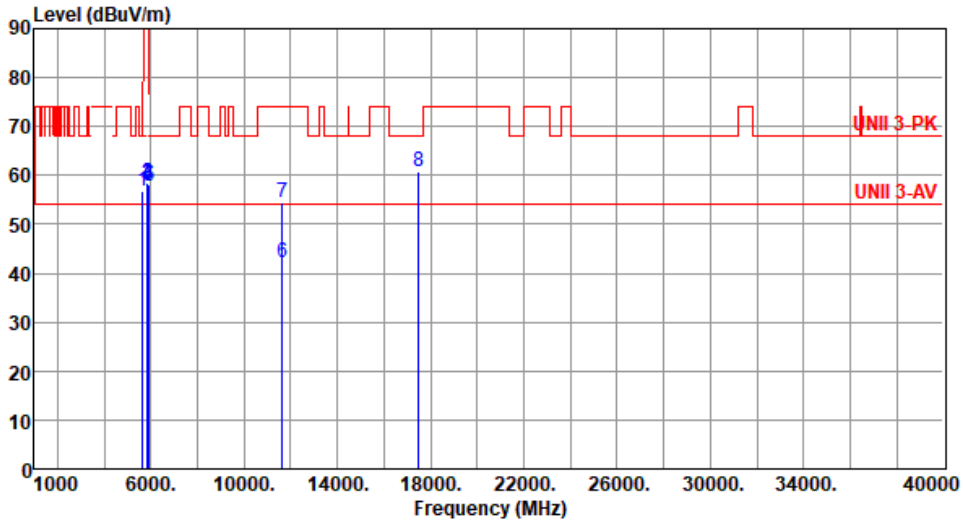


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.39	68.20	-10.81	52.58	4.81	Peak	110	35
2	5850.00	58.91	122.20	-63.29	53.26	5.65	Peak	110	35
3	5855.00	58.40	110.80	-52.40	52.75	5.65	Peak	110	35
4	5875.00	58.13	105.20	-47.07	52.47	5.66	Peak	110	35
5	5925.00	57.90	68.20	-10.30	52.29	5.61	Peak	110	35
6	11650.00	42.05	54.00	-11.95	28.15	13.90	Average	100	70
7	11650.00	54.39	74.00	-19.61	40.49	13.90	Peak	100	70
8	17475.00	61.10	68.20	-7.10	42.55	18.55	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT20	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



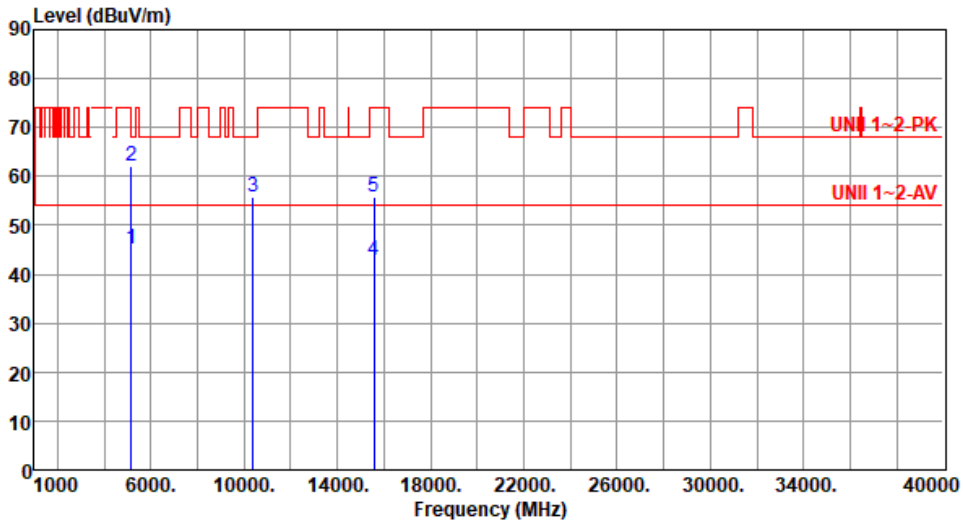
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.91	68.20	-11.29	52.10	4.81	Peak	153	16
2	5850.00	58.40	122.20	-63.80	52.75	5.65	Peak	153	16
3	5855.00	58.11	110.80	-52.69	52.46	5.65	Peak	153	16
4	5875.00	57.96	105.20	-47.24	52.30	5.66	Peak	153	16
5	5925.00	57.62	68.20	-10.58	52.01	5.61	Peak	153	16
6	11650.00	42.12	54.00	-11.88	28.22	13.90	Average	100	40
7	11650.00	54.44	74.00	-19.56	40.54	13.90	Peak	100	40
8	17475.00	60.87	68.20	-7.33	42.32	18.55	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Unwanted Emissions (Above 1GHz) for ac VHT40

Modulation	ac VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

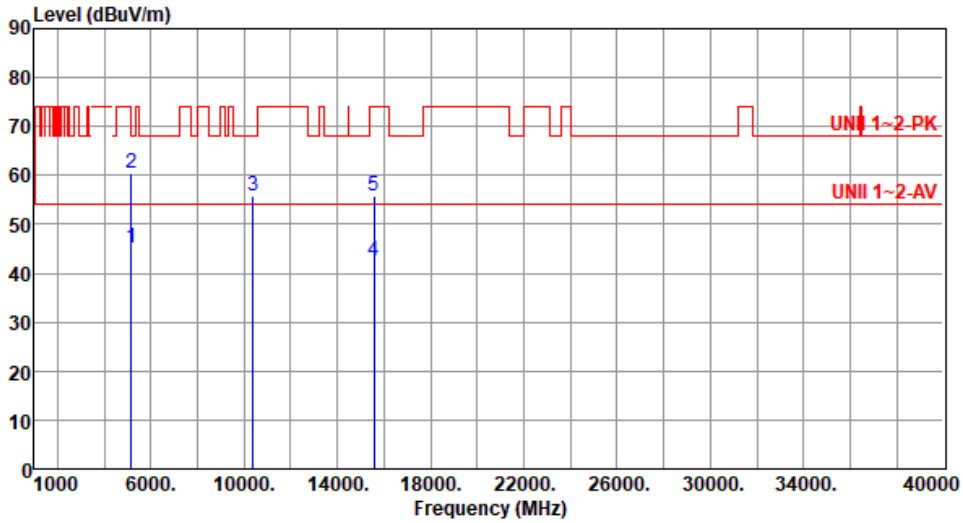


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.28	54.00	-8.72	40.27	5.01	Average	106	26
2	5150.00	62.18	74.00	-11.82	57.17	5.01	Peak	106	26
3	10380.00	55.83	68.20	-12.37	41.56	14.27	Peak	100	90
4	15570.00	42.83	54.00	-11.17	29.35	13.48	Average	100	30
5	15570.00	55.89	74.00	-18.11	42.41	13.48	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5190
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

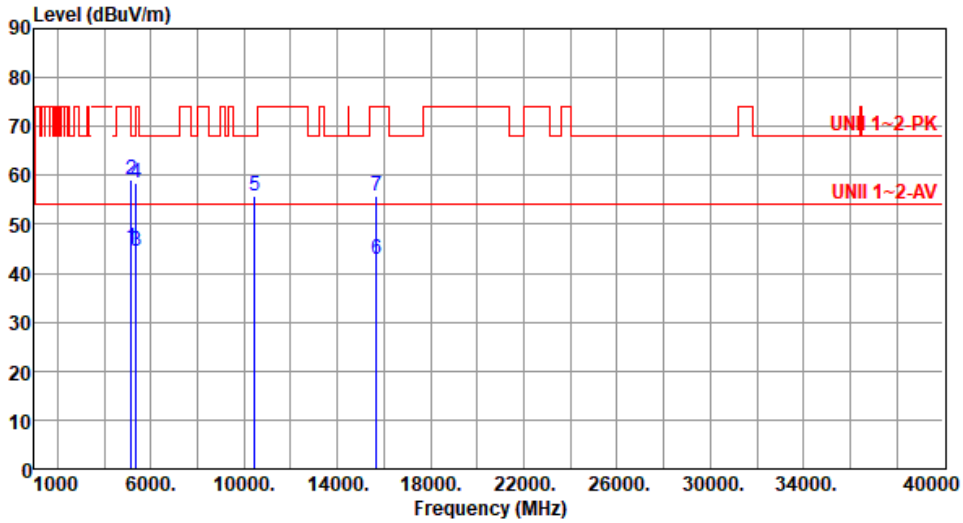


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	100	18
2	5150.00	60.51	74.00	-13.49	55.50	5.01	Peak	100	18
3	10380.00	55.69	68.20	-12.51	41.42	14.27	Peak	100	60
4	15570.00	42.64	54.00	-11.36	29.16	13.48	Average	100	20
5	15570.00	55.73	74.00	-18.27	42.25	13.48	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5230
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

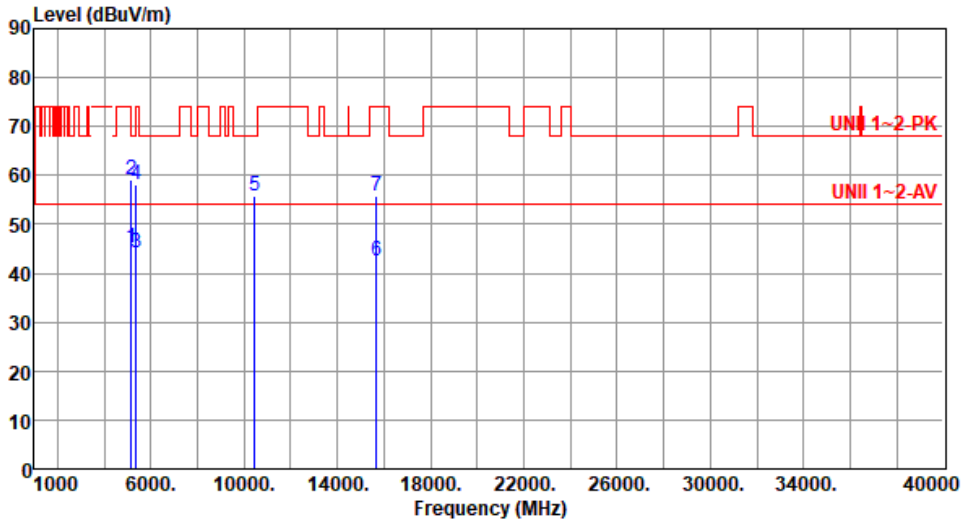


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	105	22
2	5150.00	59.28	74.00	-14.72	54.27	5.01	Peak	105	22
3	5350.00	44.44	54.00	-9.56	40.02	4.42	Average	105	22
4	5350.00	58.31	74.00	-15.69	53.89	4.42	Peak	105	22
5	10460.00	55.91	68.20	-12.29	41.48	14.43	Peak	100	100
6	15690.00	42.88	54.00	-11.12	29.48	13.40	Average	100	40
7	15690.00	55.95	74.00	-18.05	42.55	13.40	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5230
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

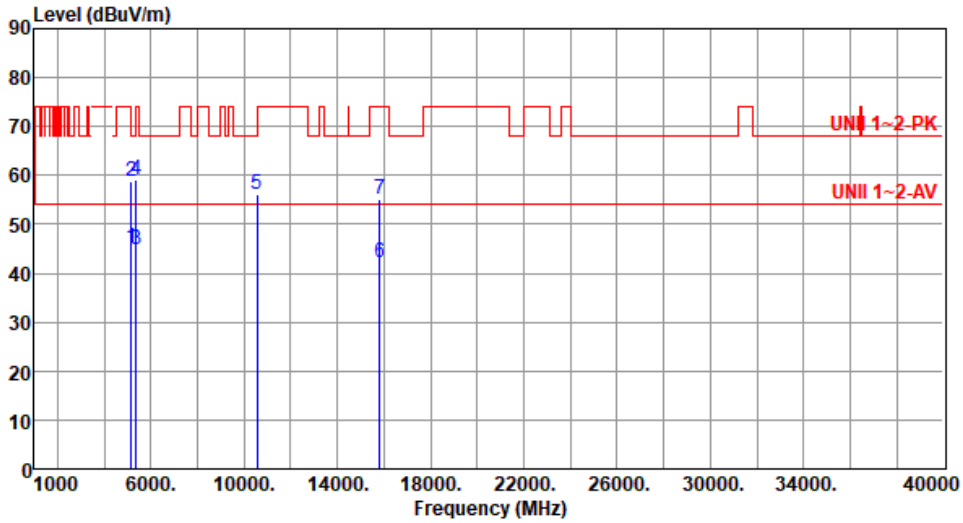


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.04	54.00	-8.96	40.03	5.01	Average	100	14
2	5150.00	58.99	74.00	-15.01	53.98	5.01	Peak	100	14
3	5350.00	44.07	54.00	-9.93	39.65	4.42	Average	100	14
4	5350.00	58.00	74.00	-16.00	53.58	4.42	Peak	100	14
5	10460.00	55.71	68.20	-12.49	41.28	14.43	Peak	100	60
6	15690.00	42.62	54.00	-11.38	29.22	13.40	Average	100	30
7	15690.00	55.74	74.00	-18.26	42.34	13.40	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5270
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

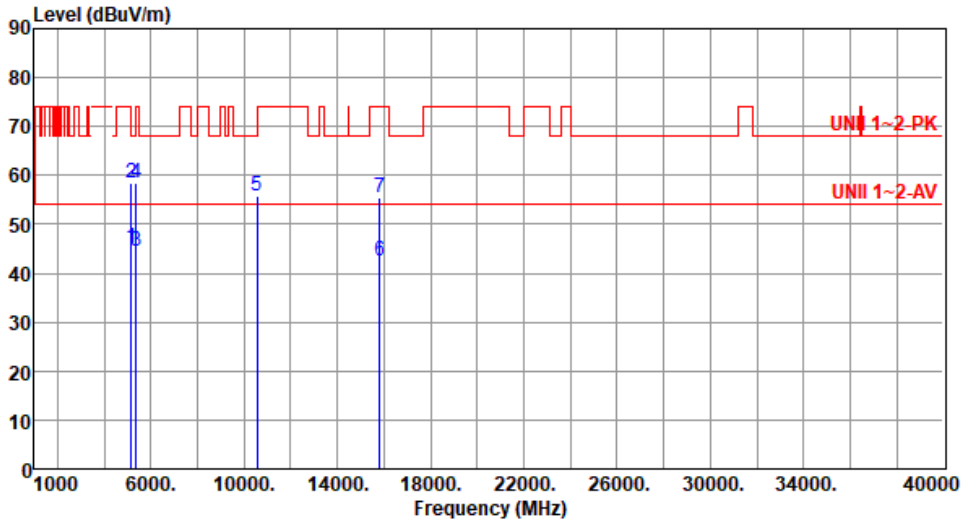


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	106	35
2	5150.00	58.90	74.00	-15.10	53.89	5.01	Peak	106	35
3	5350.00	44.80	54.00	-9.20	40.38	4.42	Average	106	35
4	5350.00	59.01	74.00	-14.99	54.59	4.42	Peak	106	35
5	10540.00	56.03	68.20	-12.17	41.59	14.44	Peak	100	20
6	15810.00	42.15	54.00	-11.85	28.65	13.50	Average	100	40
7	15810.00	55.14	74.00	-18.86	41.64	13.50	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5270
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

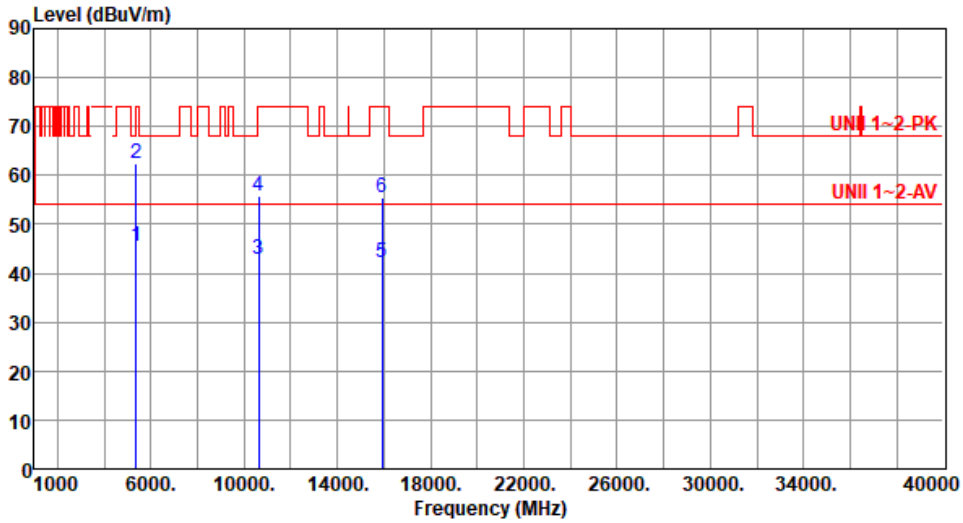


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.04	54.00	-8.96	40.03	5.01	Average	100	22
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	100	22
3	5350.00	44.53	54.00	-9.47	40.11	4.42	Average	100	22
4	5350.00	58.54	74.00	-15.46	54.12	4.42	Peak	100	22
5	10540.00	55.89	68.20	-12.31	41.45	14.44	Peak	100	30
6	15810.00	42.37	54.00	-11.63	28.87	13.50	Average	100	50
7	15810.00	55.39	74.00	-18.61	41.89	13.50	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5310
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

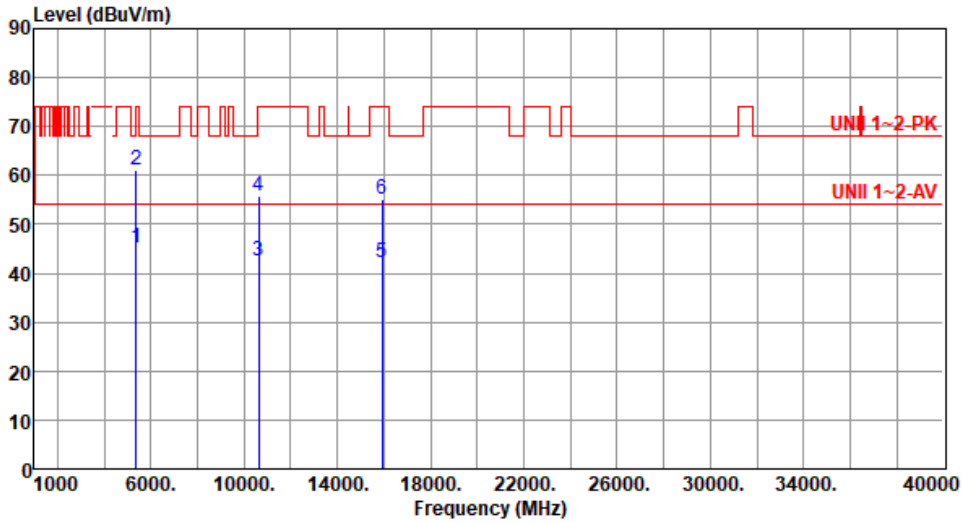


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.57	54.00	-8.43	41.15	4.42	Average	107	33
2	5350.00	62.35	74.00	-11.65	57.93	4.42	Peak	107	33
3	10620.00	42.82	54.00	-11.18	28.46	14.36	Average	100	50
4	10620.00	55.95	74.00	-18.05	41.59	14.36	Peak	100	50
5	15930.00	42.20	54.00	-11.80	28.57	13.63	Average	100	20
6	15930.00	55.49	74.00	-18.51	41.86	13.63	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5310
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

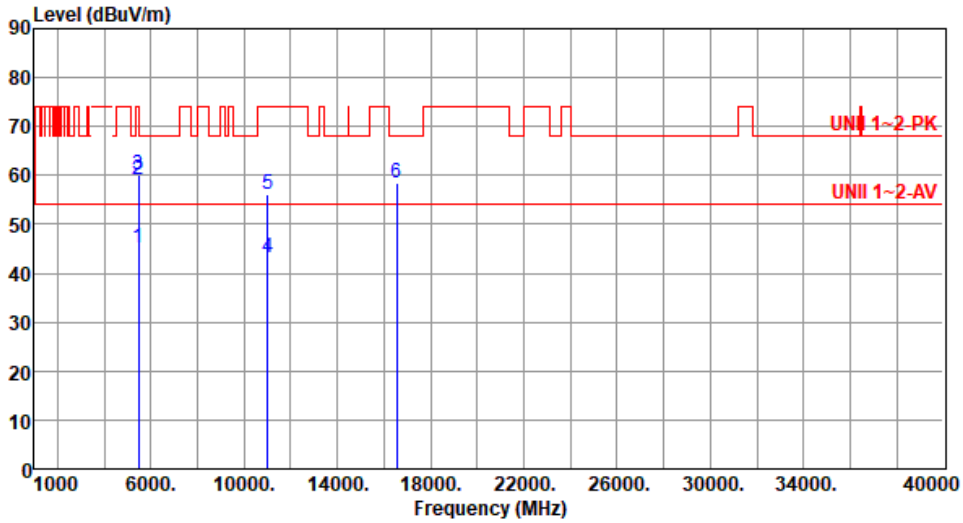


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.10	54.00	-8.90	40.68	4.42	Average	100	14
2	5350.00	60.96	74.00	-13.04	56.54	4.42	Peak	100	14
3	10620.00	42.61	54.00	-11.39	28.25	14.36	Average	100	40
4	10620.00	55.82	74.00	-18.18	41.46	14.36	Peak	100	40
5	15930.00	42.09	54.00	-11.91	28.46	13.63	Average	100	30
6	15930.00	55.26	74.00	-18.74	41.63	13.63	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5510
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

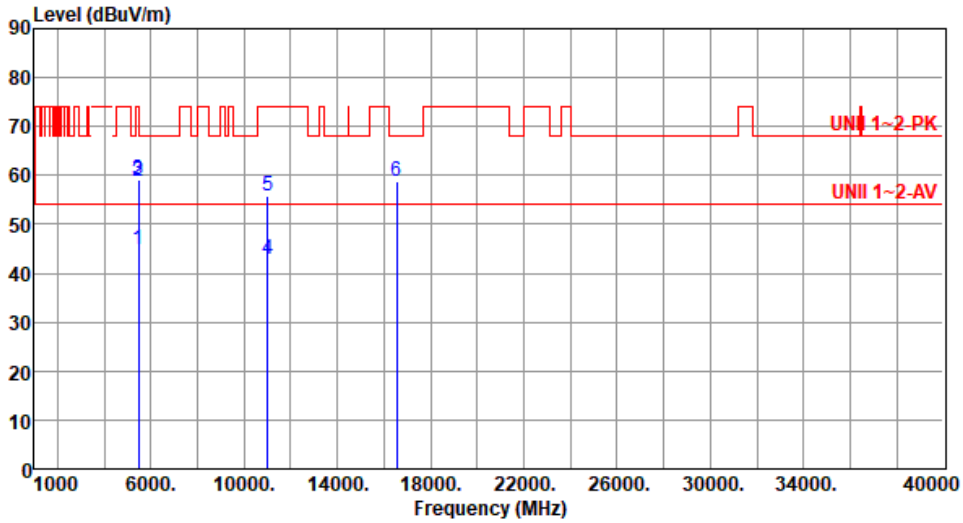


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.13	54.00	-8.87	40.46	4.67	Average	107	26
2	5460.00	59.27	74.00	-14.73	54.60	4.67	Peak	107	26
3	5470.00	60.17	68.20	-8.03	55.47	4.70	Peak	107	26
4	11020.00	43.02	54.00	-10.98	28.46	14.56	Average	100	40
5	11020.00	56.01	74.00	-17.99	41.45	14.56	Peak	100	40
6	16530.00	58.48	68.20	-9.72	42.24	16.24	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5510
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

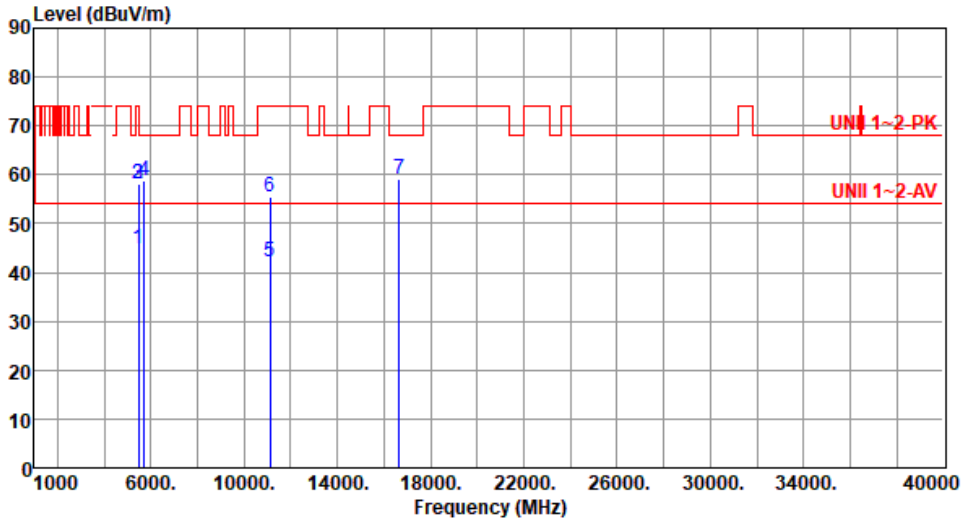


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.16	4.67	Average	152	8
2	5460.00	58.83	74.00	-15.17	54.16	4.67	Peak	152	8
3	5470.00	58.96	68.20	-9.24	54.26	4.70	Peak	152	8
4	11020.00	42.82	54.00	-11.18	28.26	14.56	Average	100	30
5	11020.00	55.84	74.00	-18.16	41.28	14.56	Peak	100	30
6	16530.00	58.82	68.20	-9.38	42.58	16.24	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5550
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

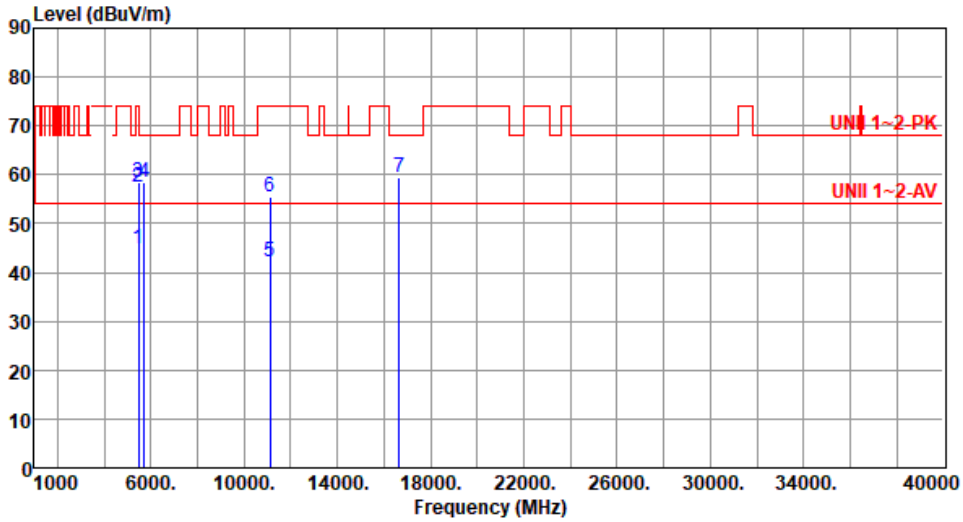


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.89	54.00	-9.11	40.22	4.67	Average	104	26
2	5460.00	58.06	74.00	-15.94	53.39	4.67	Peak	104	26
3	5470.00	58.17	68.20	-10.03	53.47	4.70	Peak	104	26
4	5725.00	58.69	68.20	-9.51	53.52	5.17	Peak	104	26
5	11100.00	42.11	54.00	-11.89	27.88	14.23	Average	100	68
6	11100.00	55.37	74.00	-18.63	41.14	14.23	Peak	100	68
7	16650.00	59.28	68.20	-8.92	42.81	16.47	Peak	100	37

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5550
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

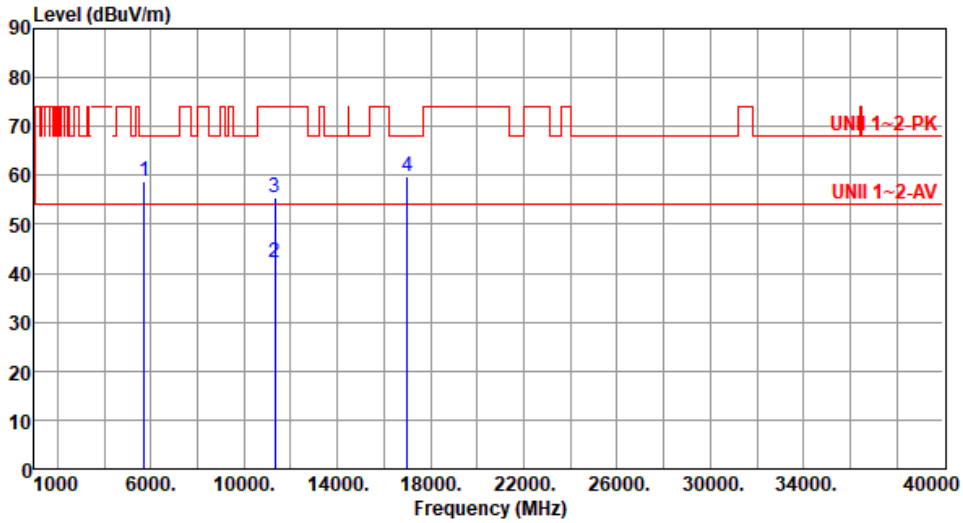


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.71	54.00	-9.29	40.04	4.67	Average	162	19
2	5460.00	57.48	74.00	-16.52	52.81	4.67	Peak	162	19
3	5470.00	58.37	68.20	-9.83	53.67	4.70	Peak	162	19
4	5725.00	58.29	68.20	-9.91	53.12	5.17	Peak	162	19
5	11100.00	42.29	54.00	-11.71	28.06	14.23	Average	100	66
6	11100.00	55.57	74.00	-18.43	41.34	14.23	Peak	100	66
7	16650.00	59.29	68.20	-8.91	42.82	16.47	Peak	100	98

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5670
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

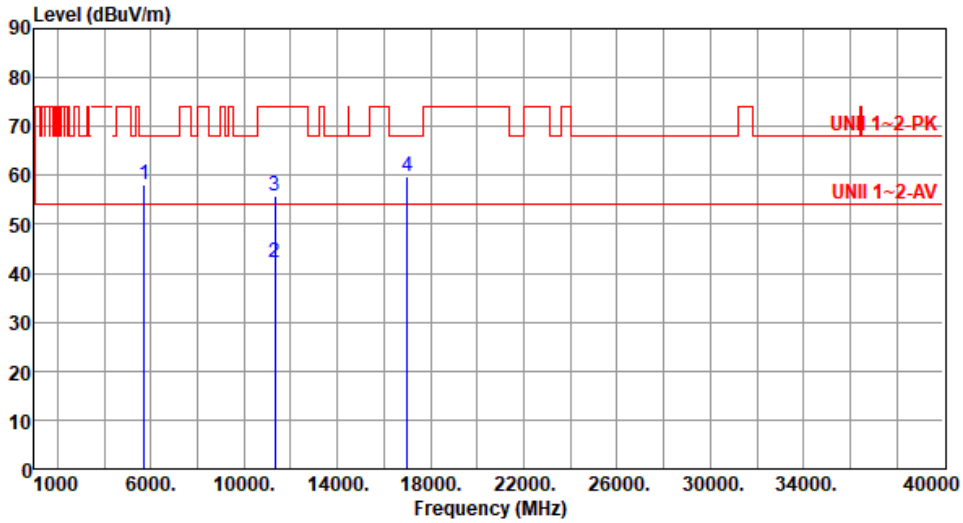


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	58.73	68.20	-9.47	53.56	5.17	Peak	112	29
2	11340.00	42.24	54.00	-11.76	28.26	13.98	Average	100	60
3	11340.00	55.54	74.00	-18.46	41.56	13.98	Peak	100	60
4	17010.00	59.69	68.20	-8.51	42.44	17.25	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5670
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

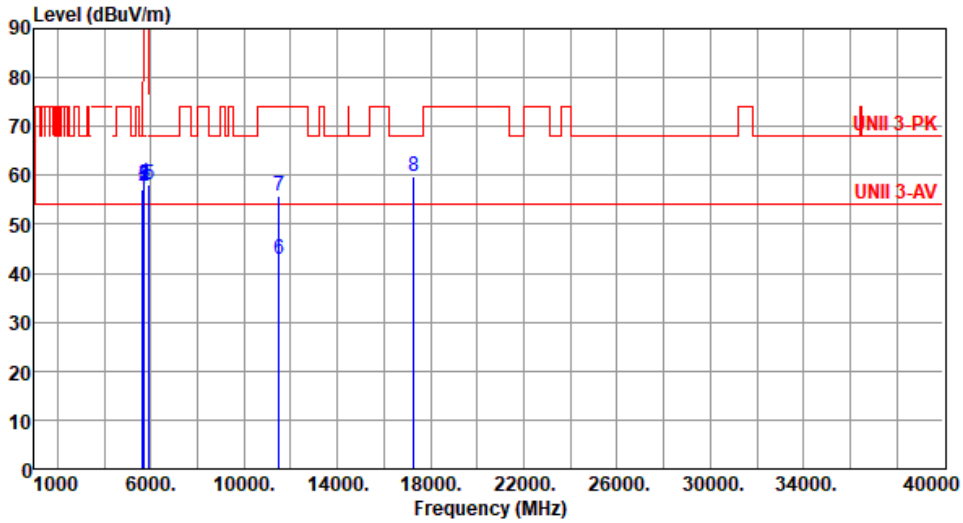


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	58.06	68.20	-10.14	52.89	5.17	Peak	150	15
2	11340.00	42.29	54.00	-11.71	28.31	13.98	Average	100	40
3	11340.00	55.66	74.00	-18.34	41.68	13.98	Peak	100	40
4	17010.00	59.78	68.20	-8.42	42.53	17.25	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5755
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

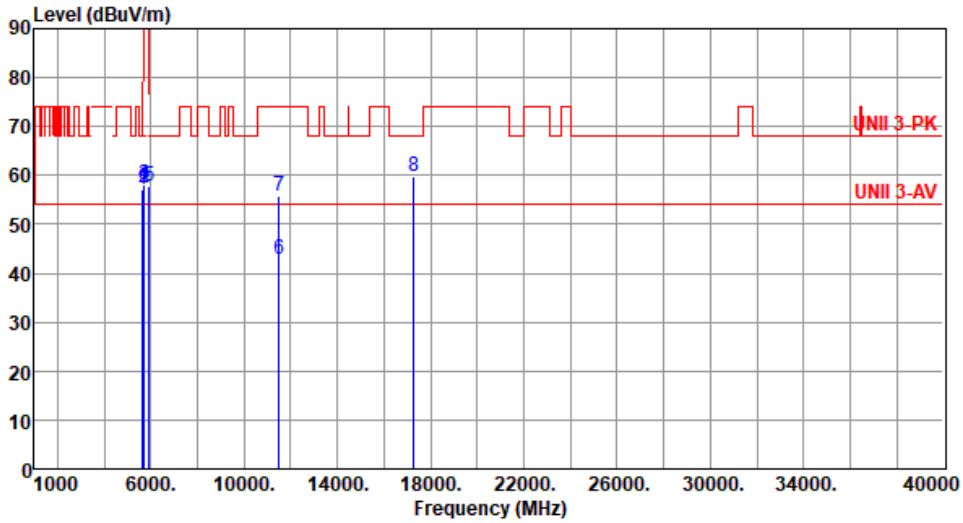


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.28	68.20	-10.92	52.47	4.81	Peak	110	27
2	5700.00	57.78	105.20	-47.42	52.76	5.02	Peak	110	27
3	5720.00	58.12	110.80	-52.68	52.98	5.14	Peak	110	27
4	5725.00	58.42	122.20	-63.78	53.25	5.17	Peak	110	27
5	5925.00	58.03	68.20	-10.17	52.42	5.61	Peak	110	27
6	11510.00	42.72	54.00	-11.28	28.32	14.40	Average	100	70
7	11510.00	55.78	74.00	-18.22	41.38	14.40	Peak	100	70
8	17265.00	59.86	68.20	-8.34	42.36	17.50	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5755
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

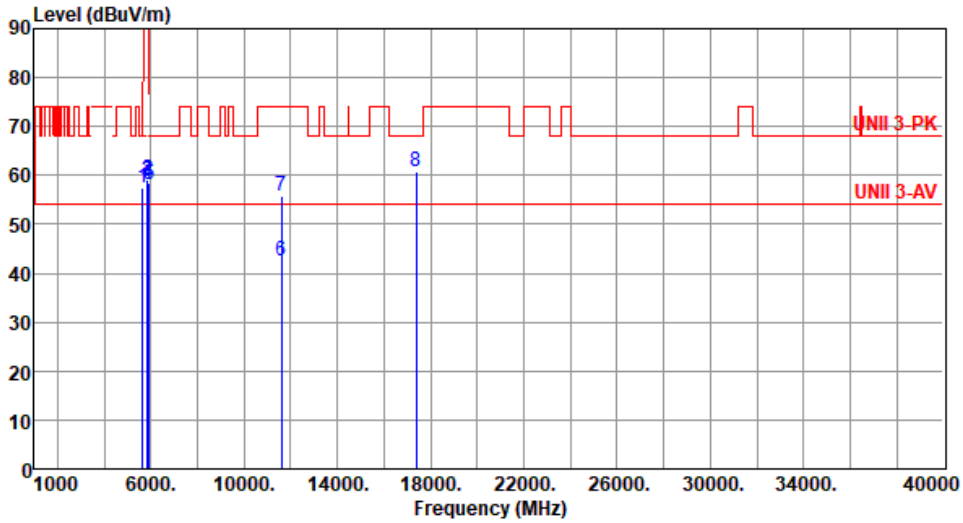


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.12	68.20	-11.08	52.31	4.81	Peak	149	9
2	5700.00	57.58	105.20	-47.62	52.56	5.02	Peak	149	9
3	5720.00	58.02	110.80	-52.78	52.88	5.14	Peak	149	9
4	5725.00	58.08	122.20	-64.12	52.91	5.17	Peak	149	9
5	5925.00	57.94	68.20	-10.26	52.33	5.61	Peak	149	9
6	11510.00	42.85	54.00	-11.15	28.45	14.40	Average	100	60
7	11510.00	55.82	74.00	-18.18	41.42	14.40	Peak	100	60
8	17265.00	59.68	68.20	-8.52	42.18	17.50	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

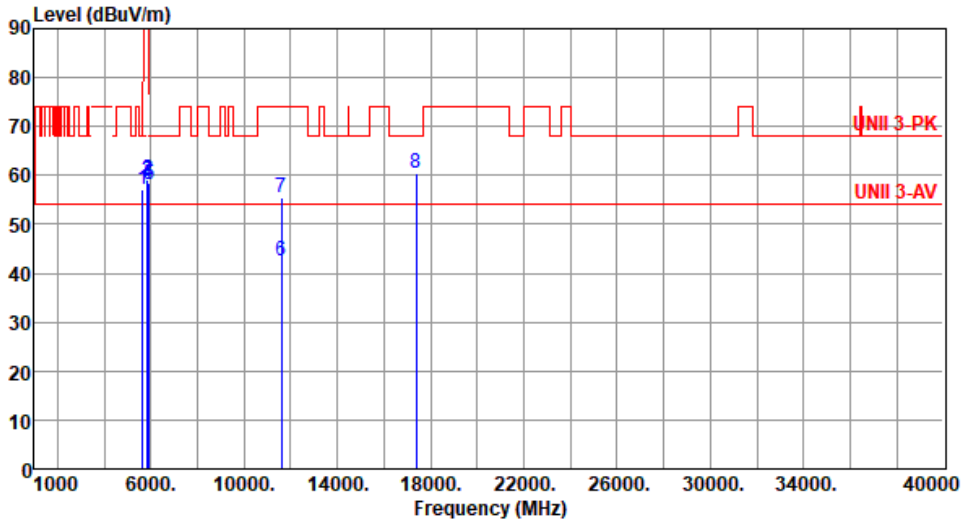


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.36	68.20	-10.84	52.55	4.81	Peak	111	32
2	5850.00	59.24	122.20	-62.96	53.59	5.65	Peak	111	32
3	5855.00	58.90	110.80	-51.90	53.25	5.65	Peak	111	32
4	5875.00	58.54	105.20	-46.66	52.88	5.66	Peak	111	32
5	5925.00	58.26	68.20	-9.94	52.65	5.61	Peak	111	32
6	11590.00	42.43	54.00	-11.57	28.24	14.19	Average	100	40
7	11590.00	55.65	74.00	-18.35	41.46	14.19	Peak	100	40
8	17385.00	60.77	68.20	-7.43	42.64	18.13	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT40	**Test Freq. (MHz)**	5795
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



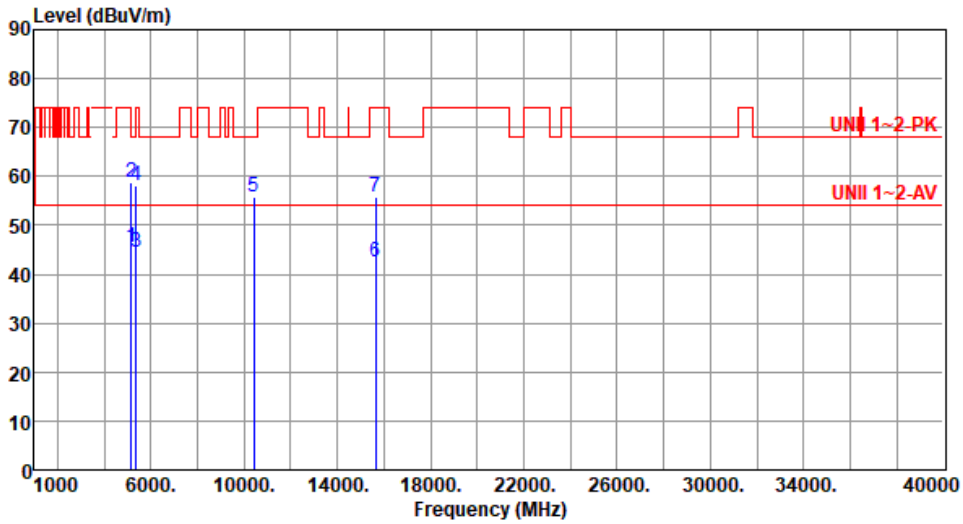
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.25	68.20	-10.95	52.44	4.81	Peak	154	11
2	5850.00	59.07	122.20	-63.13	53.42	5.65	Peak	154	11
3	5855.00	58.76	110.80	-52.04	53.11	5.65	Peak	154	11
4	5875.00	58.30	105.20	-46.90	52.64	5.66	Peak	154	11
5	5925.00	58.09	68.20	-10.11	52.48	5.61	Peak	154	11
6	11590.00	42.35	54.00	-11.65	28.16	14.19	Average	100	30
7	11590.00	55.48	74.00	-18.52	41.29	14.19	Peak	100	30
8	17385.00	60.58	68.20	-7.62	42.45	18.13	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Unwanted Emissions (Above 1GHz) for ac VHT80

Modulation	ac VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

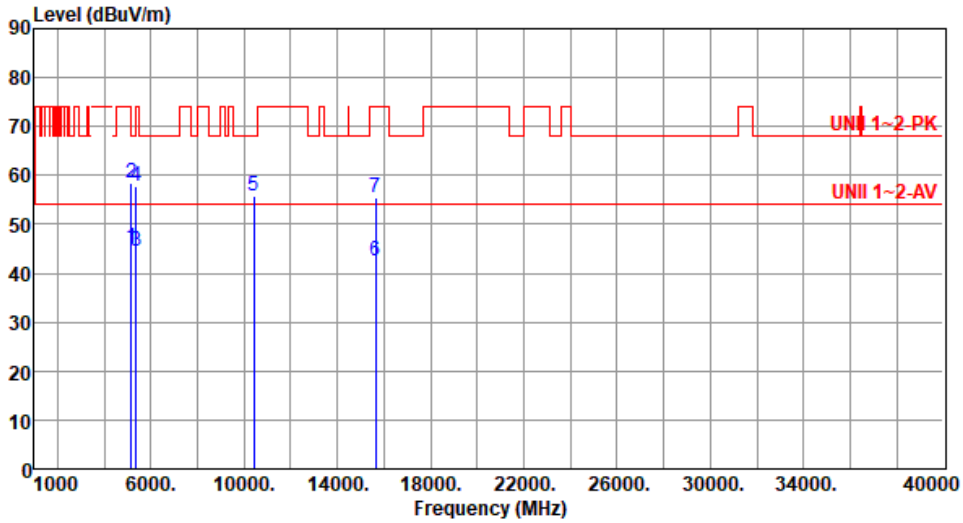


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.47	54.00	-8.53	40.46	5.01	Average	100	26
2	5150.00	58.81	74.00	-15.19	53.80	5.01	Peak	100	26
3	5350.00	44.67	54.00	-9.33	40.25	4.42	Average	100	26
4	5350.00	58.07	74.00	-15.93	53.65	4.42	Peak	100	26
5	10420.00	55.92	68.20	-12.28	41.56	14.36	Peak	100	30
6	15630.00	42.60	54.00	-11.40	29.25	13.35	Average	100	20
7	15630.00	55.66	74.00	-18.34	42.31	13.35	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5210
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

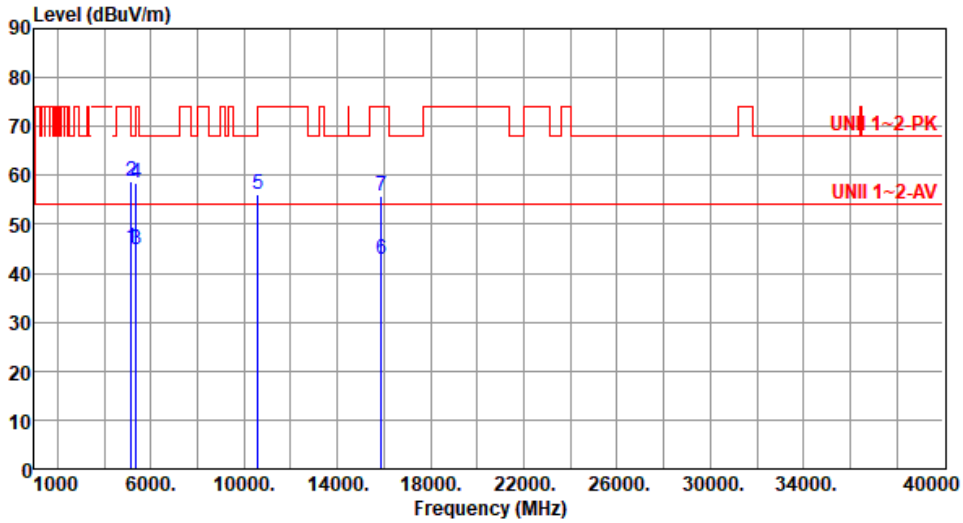


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.24	54.00	-8.76	40.23	5.01	Average	105	11
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	105	11
3	5350.00	44.53	54.00	-9.47	40.11	4.42	Average	105	11
4	5350.00	57.91	74.00	-16.09	53.49	4.42	Peak	105	11
5	10420.00	55.78	68.20	-12.42	41.42	14.36	Peak	100	60
6	15630.00	42.53	54.00	-11.47	29.18	13.35	Average	100	50
7	15630.00	55.50	74.00	-18.50	42.15	13.35	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5290
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

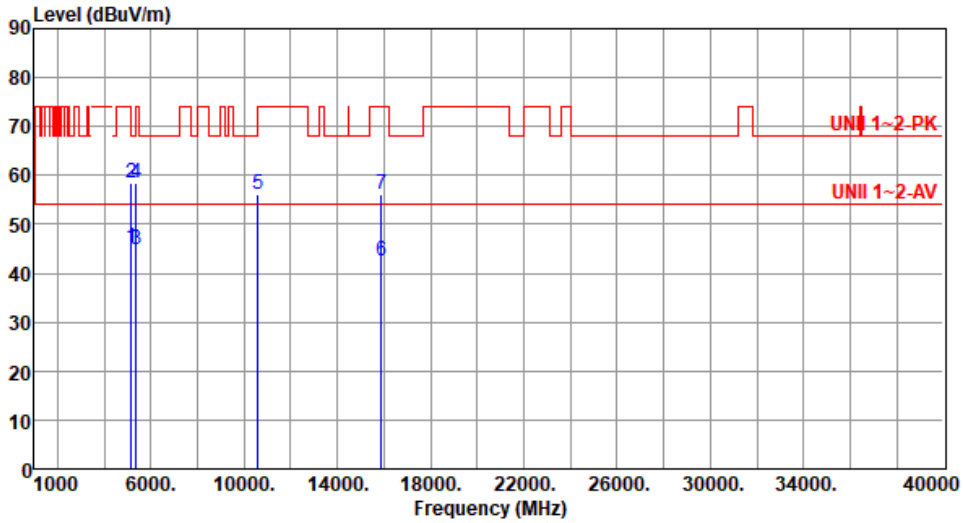


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	100	36
2	5150.00	58.90	74.00	-15.10	53.89	5.01	Peak	100	36
3	5350.00	44.97	54.00	-9.03	40.55	4.42	Average	100	36
4	5350.00	58.40	74.00	-15.60	53.98	4.42	Peak	100	36
5	10580.00	56.17	68.20	-12.03	41.79	14.38	Peak	100	20
6	15870.00	42.77	54.00	-11.23	29.22	13.55	Average	100	40
7	15870.00	55.92	74.00	-18.08	42.37	13.55	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5290
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

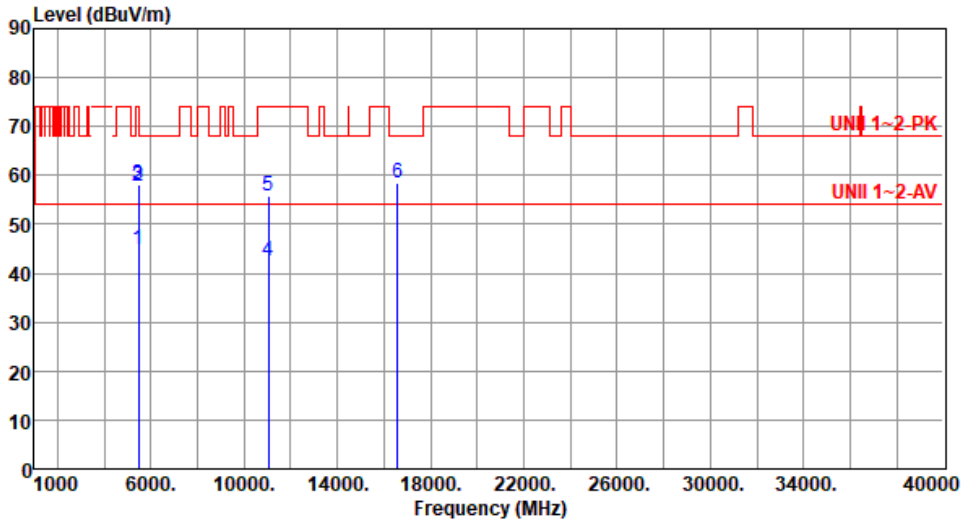


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.04	54.00	-8.96	40.03	5.01	Average	100	15
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	100	15
3	5350.00	44.84	54.00	-9.16	40.42	4.42	Average	100	15
4	5350.00	58.30	74.00	-15.70	53.88	4.42	Peak	100	15
5	10580.00	56.04	68.20	-12.16	41.66	14.38	Peak	100	90
6	15870.00	42.66	54.00	-11.34	29.11	13.55	Average	100	50
7	15870.00	56.01	74.00	-17.99	42.46	13.55	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5530
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

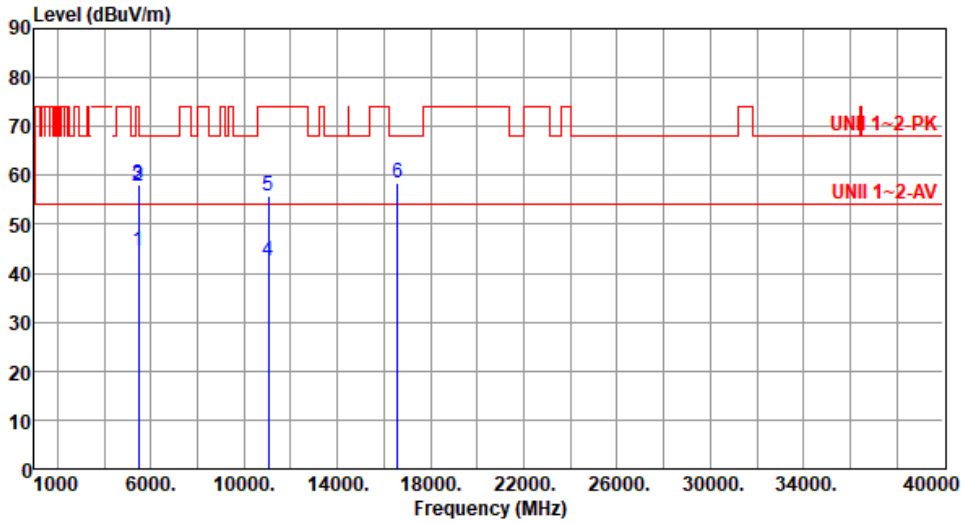


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.16	4.67	Average	117	26
2	5460.00	57.90	74.00	-16.10	53.23	4.67	Peak	117	26
3	5470.00	58.15	68.20	-10.05	53.45	4.70	Peak	117	26
4	11060.00	42.65	54.00	-11.35	28.26	14.39	Average	100	70
5	11060.00	55.85	74.00	-18.15	41.46	14.39	Peak	100	70
6	16590.00	58.48	68.20	-9.72	42.44	16.04	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5530
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

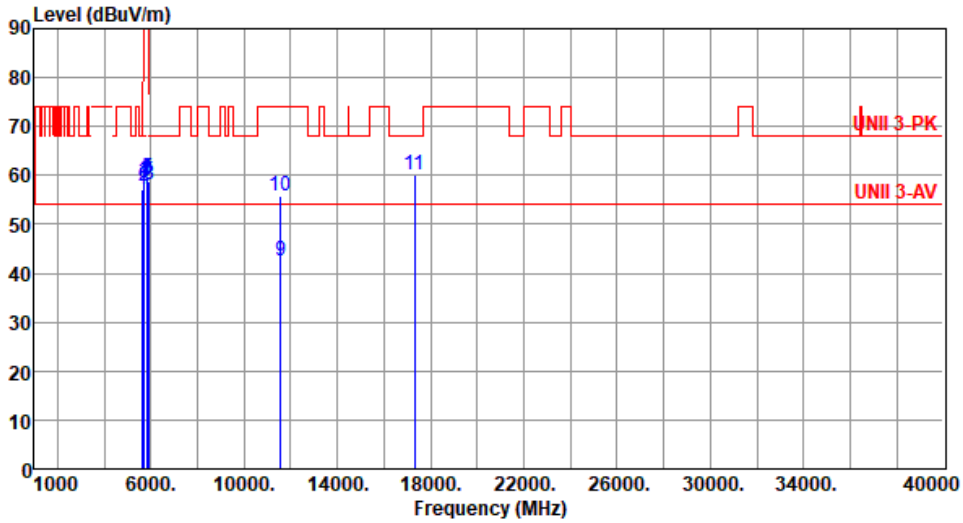


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.57	54.00	-9.43	39.90	4.67	Average	155	11
2	5460.00	57.79	74.00	-16.21	53.12	4.67	Peak	155	11
3	5470.00	57.99	68.20	-10.21	53.29	4.70	Peak	155	11
4	11060.00	42.50	54.00	-11.50	28.11	14.39	Average	100	30
5	11060.00	55.68	74.00	-18.32	41.29	14.39	Peak	100	30
6	16590.00	58.61	68.20	-9.59	42.57	16.04	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5775
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

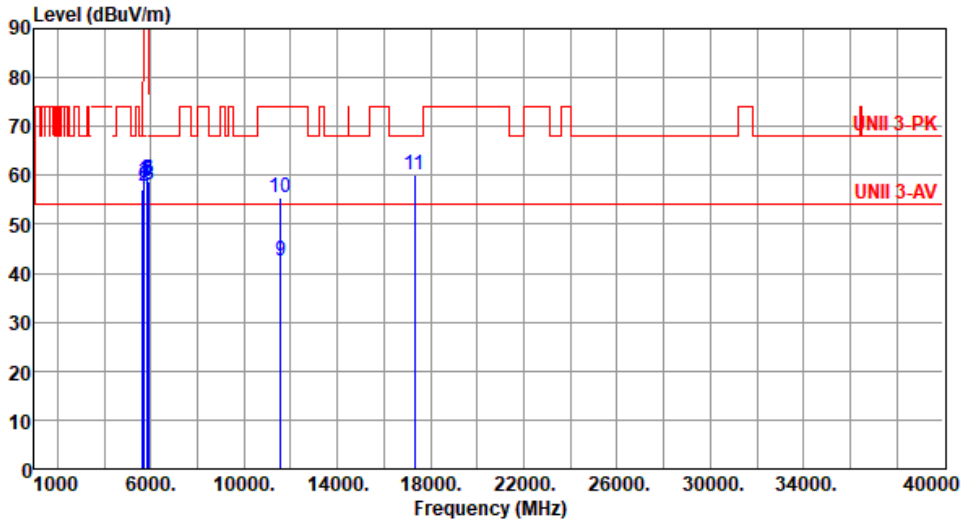


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.25	68.20	-10.95	52.44	4.81	Peak	101	29
2	5700.00	57.91	105.20	-47.29	52.89	5.02	Peak	101	29
3	5720.00	58.59	110.80	-52.21	53.45	5.14	Peak	101	29
4	5725.00	58.76	122.20	-63.44	53.59	5.17	Peak	101	29
5	5850.00	59.33	122.20	-62.87	53.68	5.65	Peak	101	29
6	5855.00	59.10	110.80	-51.70	53.45	5.65	Peak	101	29
7	5875.00	58.86	105.20	-46.34	53.20	5.66	Peak	101	29
8	5925.00	58.20	68.20	-10.00	52.59	5.61	Peak	101	29
9	11550.00	42.50	54.00	-11.50	28.20	14.30	Average	100	30
10	11550.00	55.75	74.00	-18.25	41.45	14.30	Peak	100	30
11	17325.00	60.17	68.20	-8.03	42.46	17.71	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	ac VHT80	**Test Freq. (MHz)**	5775
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.05	68.20	-11.15	52.24	4.81	Peak	153	12
2	5700.00	57.67	105.20	-47.53	52.65	5.02	Peak	153	12
3	5720.00	58.29	110.80	-52.51	53.15	5.14	Peak	153	12
4	5725.00	58.63	122.20	-63.57	53.46	5.17	Peak	153	12
5	5850.00	59.09	122.20	-63.11	53.44	5.65	Peak	153	12
6	5855.00	58.86	110.80	-51.94	53.21	5.65	Peak	153	12
7	5875.00	58.67	105.20	-46.53	53.01	5.66	Peak	153	12
8	5925.00	58.03	68.20	-10.17	52.42	5.61	Peak	153	12
9	11550.00	42.41	54.00	-11.59	28.11	14.30	Average	100	40
10	11550.00	55.58	74.00	-18.42	41.28	14.30	Peak	100	40
11	17325.00	60.04	68.20	-8.16	42.33	17.71	Peak	100	80

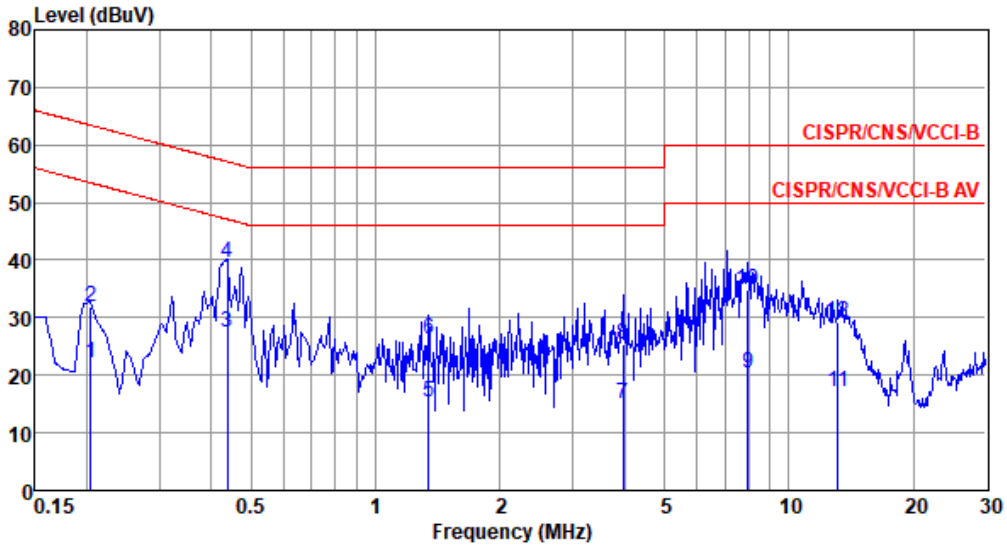
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (ºC)	**0 minute**	**2 minutes**	**5 minutes**	**10 minutes**
T20°CVmax	0.20	0.52	0.85	0.16
T20°CVmin	-0.85	-0.09	-0.68	-0.55
T50°CVnom	-5.07	-4.58	-4.29	-5.17
T40°CVnom	-3.77	-2.81	-3.07	-3.15
T30°CVnom	-1.14	-0.47	-0.51	-0.49
T20°CVnom	1.42	0.96	0.72	1.66
T10°CVnom	3.34	3.44	3.76	3.02
T0°CVnom	3.40	3.50	3.36	3.38
T-10°CVnom	5.44	6.08	6.18	5.92
T-20°CVnom	4.72	4.88	4.10	4.51
T-30°CVnom	5.22	5.85	5.80	5.68
Vnom [V]: 3.8	Vmax [V]: 4.37		Vmin [V]: 3.23	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

Frequency: 5785 MHz	Frequency Drift (ppm			
Temperature (ºC)	**0 minute**	**2 minutes**	**5 minutes**	**10 minutes**
T20°CVmax	0.34	0.14	0.44	-0.07
T20°CVmin	-0.76	-0.53	0.09	-0.17
T50CVnom	-5.28	-5.02	-4.88	-5.26
T40°CVnom	-3.28	-3.61	-3.80	-3.26
T30°CVnom	-1.39	-1.25	-1.34	-1.94
T20°CVnom	0.59	0.26	0.20	0.60
T10°CVnom	1.99	2.50	2.31	2.18
T0°CVnom	3.03	2.81	3.06	3.14
T-10°CVnom	4.31	3.48	4.32	3.37
T-20°CVnom	4.41	5.19	4.51	4.89
T-30°CVnom	4.87	5.20	4.99	5.21
Vnom [V]: 3.8	Vmax [V]: 4.37		Vmin [V]: 3.23	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

Modulation Mode	ac VHT40	**Test Freq. (MHz)**	5190
Power Phase	Line		

Test by : Joe Liao Temperature: 22°C Humidity: 60%

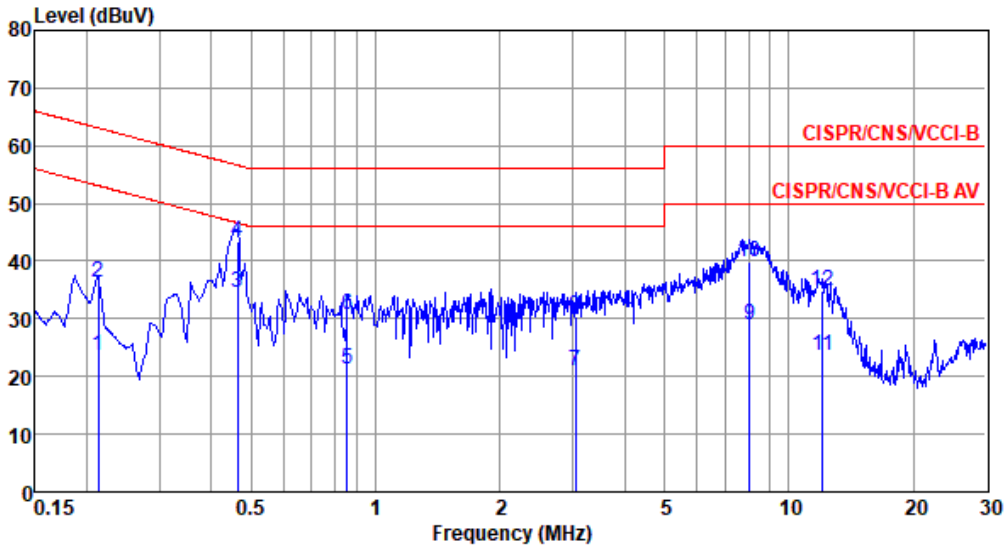


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.204	22.08	53.45	-31.37	12.10	9.68	0.08	0.22	Average
2	0.204	31.89	63.45	-31.56	21.91	9.68	0.08	0.22	QP
3	0.437	27.35	47.11	-19.76	17.23	9.67	0.09	0.36	Average
4*	0.437	39.44	57.11	-17.67	29.32	9.67	0.09	0.36	QP
5	1.345	15.22	46.00	-30.78	4.98	9.68	0.18	0.38	Average
6	1.345	26.36	56.00	-29.64	16.12	9.68	0.18	0.38	QP
7	3.964	15.09	46.00	-30.91	4.76	9.70	0.21	0.42	Average
8	3.964	25.39	56.00	-30.61	15.06	9.70	0.21	0.42	QP
9	7.977	20.44	50.00	-29.56	9.88	9.73	0.39	0.44	Average
10	7.977	34.89	60.00	-25.11	24.33	9.73	0.39	0.44	QP
11	13.127	17.21	50.00	-32.79	6.46	9.74	0.52	0.49	Average
12	13.127	29.14	60.00	-30.86	18.39	9.74	0.52	0.49	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	ac VHT40	**Test Freq. (MHz)**	5190
Power Phase	Neutral		

Test by : Joe Liao Temperature: 22°C Humidity: 60%

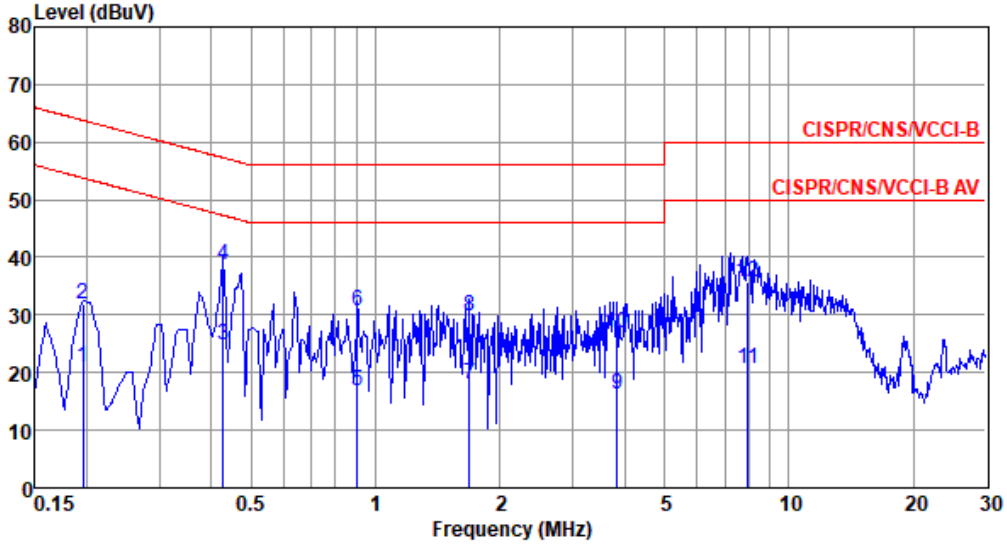


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.213	23.60	53.10	-29.50	13.73	9.61	0.08	0.18	Average
2	0.213	36.24	63.10	-26.86	26.37	9.61	0.08	0.18	QP
3*	0.462	34.42	46.65	-12.23	24.52	9.61	0.09	0.20	Average
4	0.462	43.53	56.65	-13.12	33.63	9.61	0.09	0.20	QP
5	0.853	21.31	46.00	-24.69	11.29	9.61	0.15	0.26	Average
6	0.853	30.80	56.00	-25.20	20.78	9.61	0.15	0.26	QP
7	3.041	20.98	46.00	-25.02	10.82	9.63	0.21	0.32	Average
8	3.041	30.38	56.00	-25.62	20.22	9.63	0.21	0.32	QP
9	8.020	28.80	50.00	-21.20	18.37	9.68	0.39	0.36	Average
10	8.020	39.94	60.00	-20.06	29.51	9.68	0.39	0.36	QP
11	12.060	23.58	50.00	-26.42	12.94	9.72	0.50	0.42	Average
12	12.060	34.78	60.00	-25.22	24.14	9.72	0.50	0.42	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	11a	**Test Freq. (MHz)**	5825
Power Phase	Line		

Test by : Joe Liao Temperature: 22°C Humidity: 60%

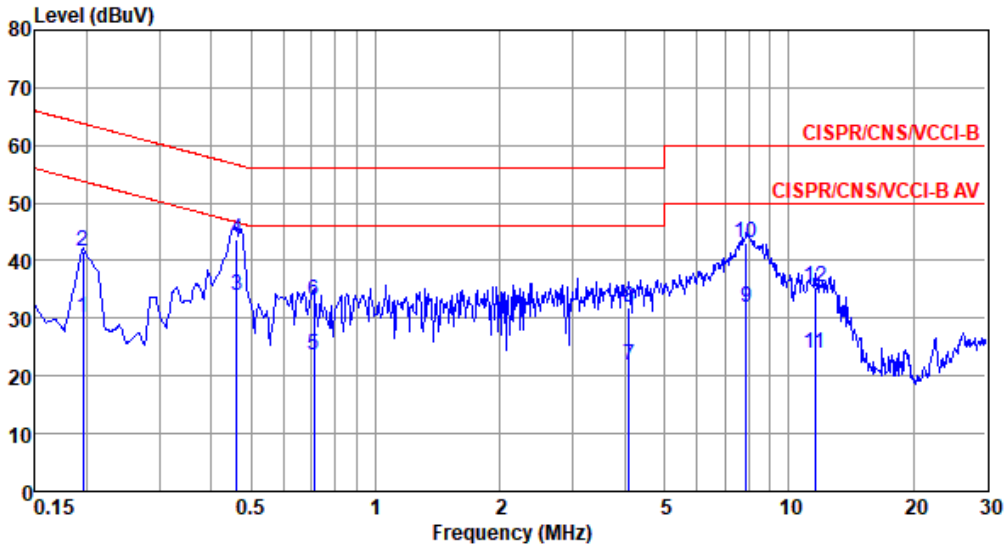


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.195	21.02	53.80	-32.78	11.04	9.68	0.08	0.22	Average
2	0.195	31.95	63.80	-31.85	21.97	9.68	0.08	0.22	QP
3	0.428	24.90	47.29	-22.39	14.78	9.67	0.09	0.36	Average
4*	0.428	38.80	57.29	-18.49	28.68	9.67	0.09	0.36	QP
5	0.904	16.77	46.00	-29.23	6.57	9.68	0.15	0.37	Average
6	0.904	30.83	56.00	-25.17	20.63	9.68	0.15	0.37	QP
7	1.689	18.07	46.00	-27.93	7.80	9.69	0.19	0.39	Average
8	1.689	29.80	56.00	-26.20	19.53	9.69	0.19	0.39	QP
9	3.840	16.24	46.00	-29.76	5.91	9.70	0.21	0.42	Average
10	3.840	26.99	56.00	-29.01	16.66	9.70	0.21	0.42	QP
11	7.977	20.55	50.00	-29.45	9.99	9.73	0.39	0.44	Average
12	7.977	35.86	60.00	-24.14	25.30	9.73	0.39	0.44	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	11a	**Test Freq. (MHz)**	5825
Power Phase	Neutral		

Test by : Joe Liao Temperature: 22°C Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.195	30.07	53.80	-23.73	20.20	9.61	0.08	0.18	Average
2	0.195	41.77	63.80	-22.03	31.90	9.61	0.08	0.18	QP
3*	0.461	33.98	46.68	-12.70	24.08	9.61	0.09	0.20	Average
4	0.461	43.73	56.68	-12.95	33.83	9.61	0.09	0.20	QP
5	0.708	23.75	46.00	-22.25	13.76	9.61	0.13	0.25	Average
6	0.708	33.00	56.00	-23.00	23.01	9.61	0.13	0.25	QP
7	4.114	21.91	46.00	-24.09	11.72	9.64	0.22	0.33	Average
8	4.114	31.75	56.00	-24.25	21.56	9.64	0.22	0.33	QP
9	7.893	31.77	50.00	-18.23	21.34	9.68	0.39	0.36	Average
10	7.893	43.00	60.00	-17.00	32.57	9.68	0.39	0.36	QP
11	11.559	23.90	50.00	-26.10	13.29	9.71	0.49	0.41	Average
12	11.559	35.56	60.00	-24.44	24.95	9.71	0.49	0.41	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).