

FCC Test Report

FCC ID : **SQG-SOM8MPLUS**
Equipment : **Summit SOM 8M Plus System-on-Module - WiFi 5 + Bluetooth 5.3**
Model No. : **Summit SOM 8M Plus**
Brand Name : **Laird Connectivity**
Applicant : **Laird Connectivity LLC**
Address : **W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard : **47 CFR FCC Part 15.407**
Received Date : **Oct. 28, 2021**
Tested Date : **Feb. 16 ~ Mar. 08, 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
FR1O2803AN	Rev. 01	Initial issue	Mar. 24, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.159MHz 43.05 (Margin -22.47dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5925.00MHz 65.18 (Margin -3.02dB) - 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: 22.36 5250~5350MHz: 22.46 5470~5725MHz: 21.75 5725~5850MHz: 21.82	Pass
15.407(a)	Peak 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

The device has 3 hardware configurations as below:

No.	Brand name	Model Name	Part Number	Description
1	Laird Connectivity	Summit SOM 8M Plus	453-00070	512MB LPDDR4 and 8GB eMMC
2			453-00071	1GB LPDDR4 and 8GB eMMC
3			453-00072	2GB LPDDR4 and 16GB eMMC

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	36-48 [4]	1	6-54 Mbps
		5260-5320	52-64 [4]	2	
		5500-5720	100-144 [12]		
		5745-5825	149-165 [5]		
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240	36-48 [4]	1	MCS 0-7
		5260-5320	52-64 [4]	2	MCS 0-15
		5500-5720	100-144 [12]		
		5745-5825	149-165 [5]		
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230	38-46 [2]	1	MCS 0-7
		5270-5310	54-62 [2]	2	MCS 0-15
		5510-5710	102-142 [6]		
		5755-5795	151-159 [2]		
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240	36-48 [4]	1	MCS 0-9
		5260-5320	52-64 [4]	2	
		5500-5720	100-144 [12]		
		5745-5825	149-165 [5]		
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230	38-46 [2]	1	MCS 0-9
		5270-5310	54-62 [2]	2	
		5510-5710	102-142 [6]		
		5755-5795	151-159 [2]		
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210	42 [1]	1	MCS 0-9
		5290	58 [1]	2	
		5530~5690	106-138 [3]		
		5775	155 [1]		

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.	Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
					5150~5250	5250~5350	5470~5725	5725~5850
1	Nanoblade	CAF94505	PCB Dipole	IPEX U.FL	3.9	3.9	4.0	4
2	Mini NanoBlade Flex	MAF95310	PCB Dipole	IPEX U.FL	3.4	3.4	3.4	3.4
3	FlexMIMO	EFD2455A3S-10MHF1	PCB Dipole	IPEX U.FL	3.0	3.0	3.0	3.0
4	2.4/5.5 GHz FlexPIFA	001-0016	PIFA	IPEX U.FL	3.0	3.0	3.0	3
5	001-0009	001-0009	Dipole	RP-SMA	2.0	2.0	2.0	2

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host
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1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / 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	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	VHT80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Tera term, Version: V4.94		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	100.00	0.00
	VHT20	100.00	0.00
	VHT40	100.00	0.00
	VHT80	100.00	0.00

1.1.7 Power Index of Test Tool

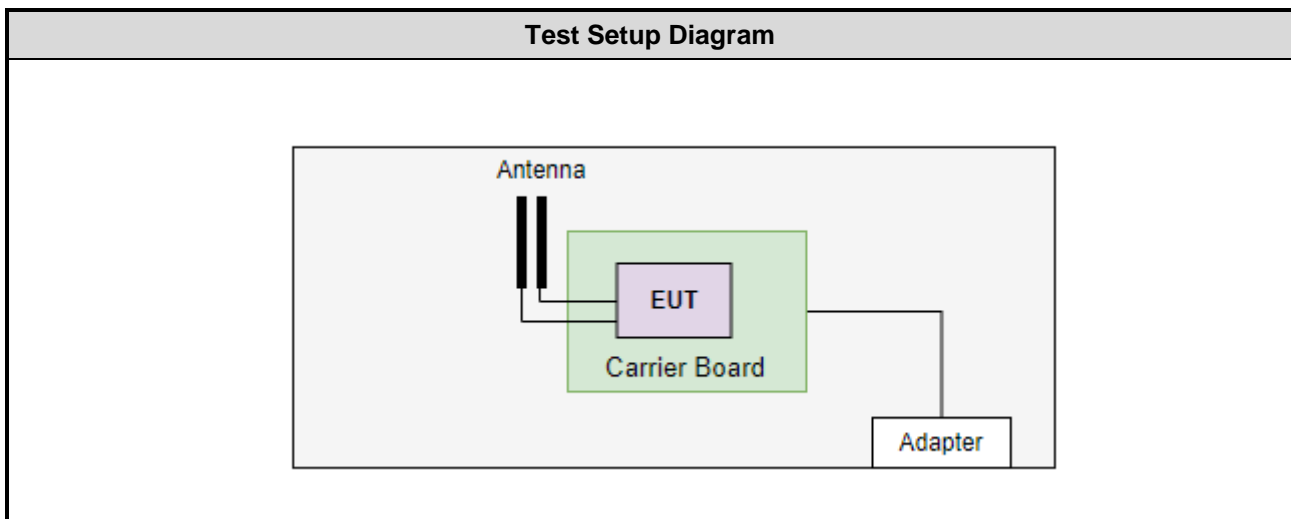
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	15
11a	5200	19
11a	5240	19
11a	5260	18
11a	5300	18
11a	5320	15
11a	5500	12
11a	5580	19
11a	5700	12
11a	5720	19
11a	5745	19
11a	5785	19
11a	5825	19
VHT20	5180	17
VHT20	5200	19
VHT20	5240	19
VHT20	5260	19
VHT20	5300	19
VHT20	5320	15
VHT20	5500	14
VHT20	5580	19
VHT20	5700	13
VHT20	5720	19
VHT20	5745	19
VHT20	5785	19
VHT20	5825	19

Modulation Mode	Test Frequency (MHz)	Power Index
VHT40	5190	13
VHT40	5230	19
VHT40	5270	18
VHT40	5310	14
VHT40	5510	12
VHT40	5590	19
VHT40	5670	14
VHT40	5710	19
VHT40	5755	19
VHT40	5795	19
VHT80	5210	10
VHT80	5290	12
VHT80	5530	10
VHT80	5610	13
VHT80	5690	16
VHT80	5775	15

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	Carrier Board	---	---	---	Provided by applicant.
3	USB Cable	ICC	micro to A	---	---
4	USB console cable	---	---	---	Provided by applicant.

1.3 Test Setup Chart



Note: The support notebook and USB cable were disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 03, 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	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 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	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 04 ~ Mar. 08, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
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
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Feb. 16 ~ Feb. 25, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
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
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	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 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-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 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.					

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 662911 D01 Multiple Transmitter Output v02r01

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 ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °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 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5300	MCS 0	1
Radiated Emissions ≤1GHz	VHT20	5300	MCS 8	1, 2, 3
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1, 2, 3
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	1
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 result was found as the worst case and was shown in this report.				
2. Test configurations are listed as below:				
1) Configuration 1: Part Number: CAF94505 with PCB Dipole Antenna				
2) Configuration 2: Part Number: 001-0016 with PIFA Antenna				
3) Configuration 3: Part Number: 001-0009 with Dipole Antenna				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5785	MCS 0	1
Radiated Emissions ≤1GHz	VHT20	5785	MCS 0	1, 2, 3
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1, 2, 3
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
- Test configurations are listed as below:
 - Configuration 1: Part Number: CAF94505 with PCB Dipole Antenna
 - Configuration 2: Part Number: 001-0016 with PIFA Antenna
 - Configuration 3: Part Number: 001-0009 with Dipole Antenna

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

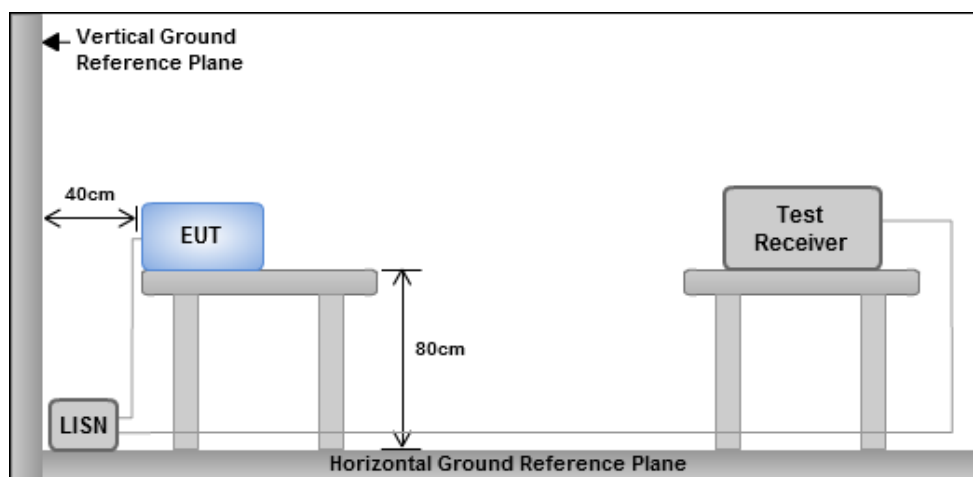
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 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

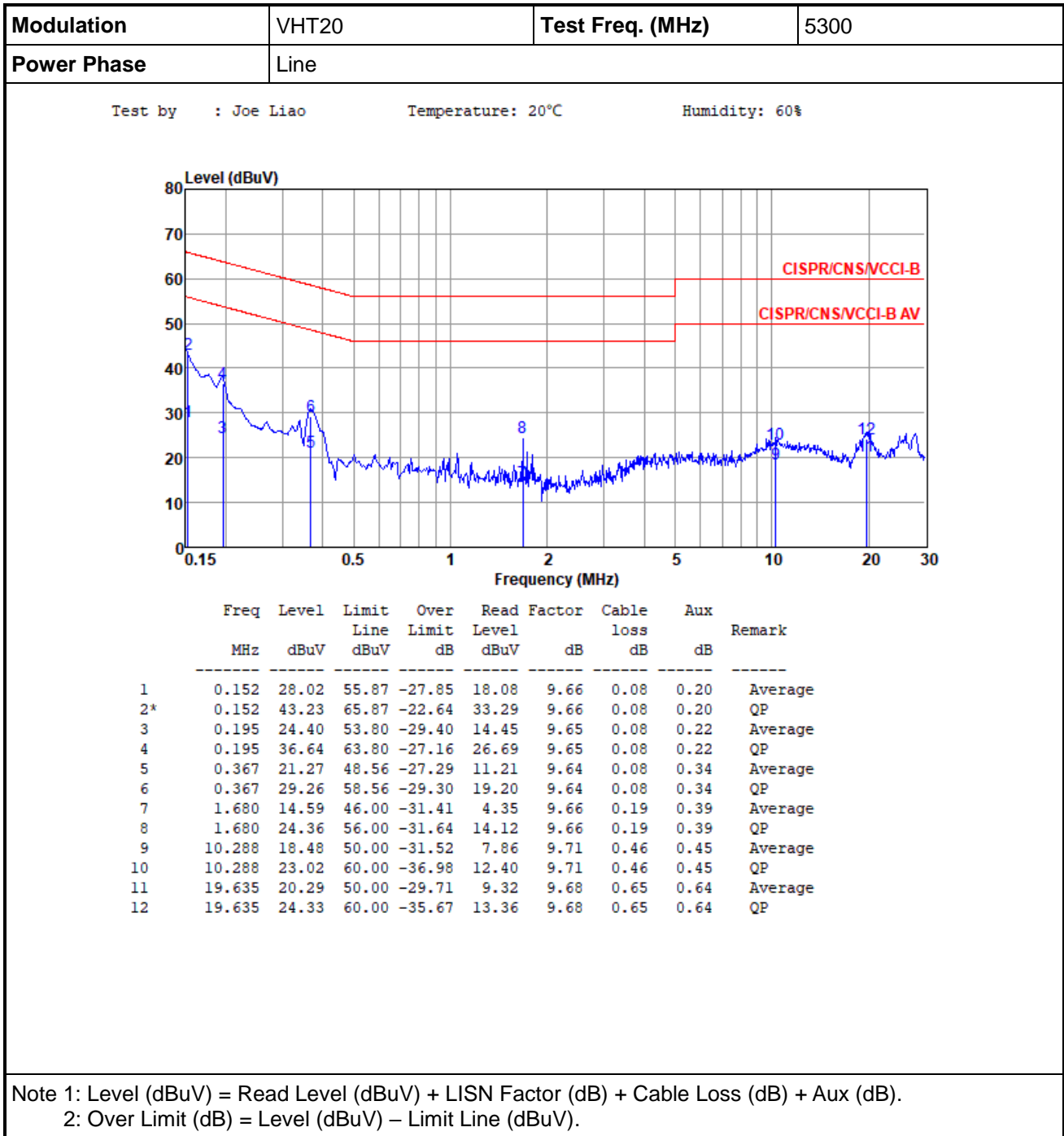
3.1.3 Test Setup



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

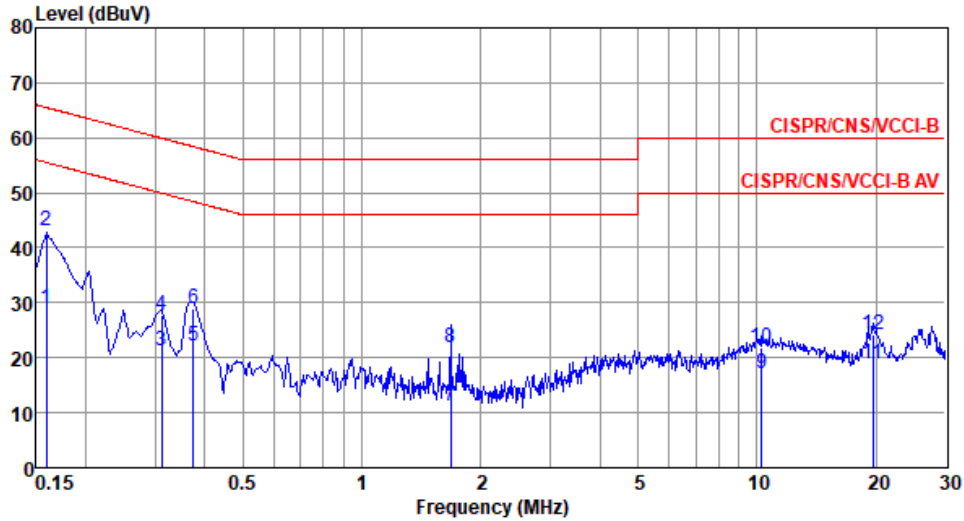
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions



Modulation	VHT20	Test Freq. (MHz)	5300
Power Phase	Neutral		

Test by : Joe Liao Temperature: 20°C Humidity: 60%



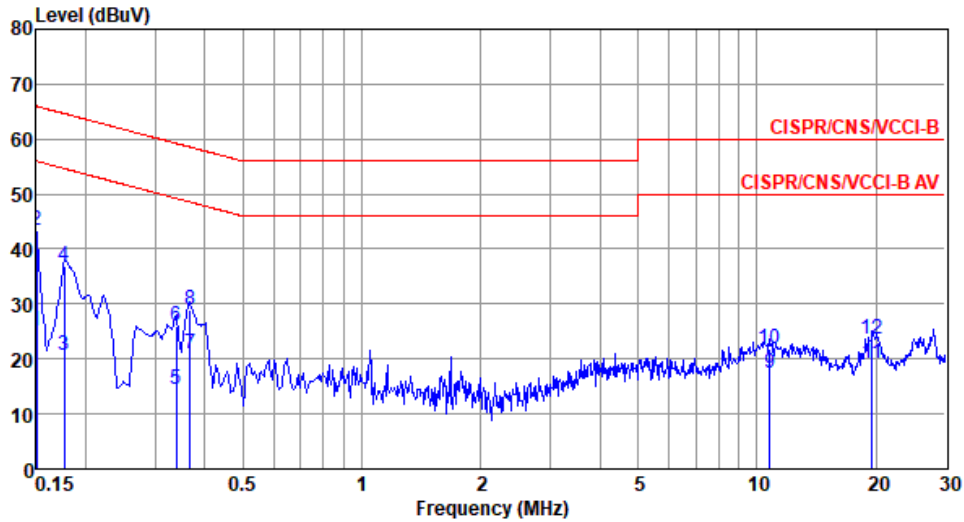
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	29.02	55.52	-26.50	19.09	9.69	0.08	0.16	Average
2*	0.159	43.05	65.52	-22.47	33.12	9.69	0.08	0.16	QP
3	0.312	21.24	49.93	-28.69	11.30	9.67	0.08	0.19	Average
4	0.312	27.78	59.93	-32.15	17.84	9.67	0.08	0.19	QP
5	0.375	22.20	48.39	-26.19	12.26	9.67	0.08	0.19	Average
6	0.375	29.02	58.39	-29.37	19.08	9.67	0.08	0.19	QP
7	1.680	11.34	46.00	-34.66	1.16	9.69	0.19	0.30	Average
8	1.680	21.90	56.00	-34.10	11.72	9.69	0.19	0.30	QP
9	10.288	17.22	50.00	-32.78	6.62	9.76	0.46	0.38	Average
10	10.288	21.82	60.00	-38.18	11.22	9.76	0.46	0.38	QP
11	19.635	19.03	50.00	-30.97	8.09	9.84	0.65	0.45	Average
12	19.635	24.25	60.00	-35.75	13.31	9.84	0.65	0.45	QP

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

Modulation	VHT20	Test Freq. (MHz)	5785
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Power Phase	Line
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Test by : Joe Liao Temperature: 20°C Humidity: 60%

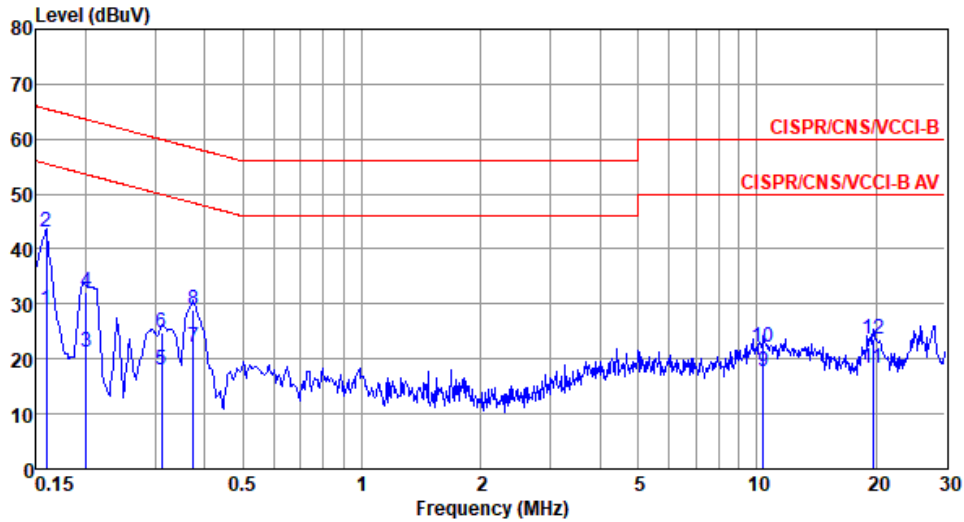


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	24.96	56.00	-31.04	15.02	9.66	0.08	0.20	Average
2*	0.150	43.36	66.00	-22.64	33.42	9.66	0.08	0.20	QP
3	0.177	20.65	54.64	-33.99	10.71	9.65	0.08	0.21	Average
4	0.177	36.93	64.64	-27.71	26.99	9.65	0.08	0.21	QP
5	0.339	14.37	49.22	-34.85	4.32	9.64	0.08	0.33	Average
6	0.339	26.06	59.22	-33.16	16.01	9.64	0.08	0.33	QP
7	0.367	21.11	48.56	-27.45	11.05	9.64	0.08	0.34	Average
8	0.367	29.07	58.56	-29.49	19.01	9.64	0.08	0.34	QP
9	10.790	17.47	50.00	-32.53	6.83	9.71	0.47	0.46	Average
10	10.790	21.93	60.00	-38.07	11.29	9.71	0.47	0.46	QP
11	19.532	19.23	50.00	-30.77	8.26	9.68	0.65	0.64	Average
12	19.532	23.47	60.00	-36.53	12.50	9.68	0.65	0.64	QP

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

Modulation	VHT20	Test Freq. (MHz)	5785
Power Phase	Neutral		

Test by : Joe Liao Temperature: 20°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	0.159	28.81	55.52	-26.71	18.88	9.69	0.08	0.16	Average
2*	0.159	43.02	65.52	-22.50	33.09	9.69	0.08	0.16	QP
3	0.201	21.18	53.58	-32.40	11.24	9.68	0.08	0.18	Average
4	0.201	32.27	63.58	-31.31	22.33	9.68	0.08	0.18	QP
5	0.312	18.01	49.93	-31.92	8.07	9.67	0.08	0.19	Average
6	0.312	24.82	59.93	-35.11	14.88	9.67	0.08	0.19	QP
7	0.375	22.17	48.39	-26.22	12.23	9.67	0.08	0.19	Average
8	0.375	28.97	58.39	-29.42	19.03	9.67	0.08	0.19	QP
9	10.397	17.63	50.00	-32.37	7.03	9.76	0.46	0.38	Average
10	10.397	22.09	60.00	-37.91	11.49	9.76	0.46	0.38	QP
11	19.635	18.23	50.00	-31.77	7.29	9.84	0.65	0.45	Average
12	19.635	23.50	60.00	-36.50	12.56	9.84	0.65	0.45	QP

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

3.2 Emission Bandwidth

3.2.1 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.

3.2.2 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.

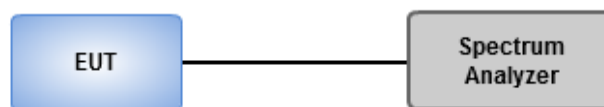
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW \geq 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.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	20-22°C / 64-66%	Tested By	Aska Huang
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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)_2TX	28.913M	16.86M	16M9D1D	19.565M	16.643M
802.11ac VHT20_Nss1,(MCS0)_2TX	26.304M	17.8M	17M8D1D	19.855M	17.656M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.58M	36.179M	36M2D1D	40M	36.035M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.739M	76.122M	76M1D1D	81.449M	75.832M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.855M	16.787M	16M8D1D	19.71M	16.57M
802.11ac VHT20_Nss1,(MCS0)_2TX	24.565M	17.728M	17M7D1D	19.855M	17.656M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.725M	36.179M	36M2D1D	40M	36.179M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.449M	75.832M	75M8D1D	81.449M	75.832M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	37.101M	17.656M	17M7D1D	19.493M	14.11M
802.11ac VHT20_Nss1,(MCS0)_2TX	38.986M	17.945M	17M9D1D	19.928M	13.98M
802.11ac VHT40_Nss1,(MCS0)_2TX	83.043M	36.758M	36M8D1D	36.522M	33.227M
802.11ac VHT80_Nss1,(MCS0)_2TX	98.478M	75.832M	75M8D1D	81.449M	72.721M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.594M	19.682M	19M7D1D	3.246M	10.535M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.681M	18.596M	18M6D1D	3.768M	10.246M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.522M	36.614M	36M6D1D	3.13M	20.26M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.522M	76.122M	76M1D1D	3.246M	19.74M

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 / Maximum 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)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.565M	16.643M	19.783M	16.643M
5200MHz	Pass	Inf	27.971M	16.787M	26.812M	16.787M
5240MHz	Pass	Inf	28.913M	16.86M	27.536M	16.787M
5260MHz	Pass	Inf	24.855M	16.715M	23.261M	16.715M
5300MHz	Pass	Inf	23.406M	16.787M	22.826M	16.715M
5320MHz	Pass	Inf	19.71M	16.643M	19.783M	16.57M
5500MHz	Pass	Inf	19.71M	16.643M	19.493M	16.643M
5580MHz	Pass	Inf	37.101M	17.366M	35.507M	17.656M
5700MHz	Pass	Inf	19.493M	16.643M	19.783M	16.643M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.609M	14.11M	22.652M	14.457M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.246M	10.535M	3.246M	11.462M
5745MHz	Pass	500k	16.594M	19.537M	16.594M	17.656M
5785MHz	Pass	500k	16.522M	19.682M	16.522M	17.728M
5825MHz	Pass	500k	16.522M	19.465M	16.522M	17.656M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.855M	17.656M	20.217M	17.656M
5200MHz	Pass	Inf	25.87M	17.728M	21.957M	17.656M
5240MHz	Pass	Inf	26.304M	17.8M	22.029M	17.728M
5260MHz	Pass	Inf	24.565M	17.656M	23.261M	17.728M
5300MHz	Pass	Inf	24.42M	17.656M	23.623M	17.728M
5320MHz	Pass	Inf	19.855M	17.656M	20M	17.656M
5500MHz	Pass	Inf	20M	17.656M	20.145M	17.656M
5580MHz	Pass	Inf	38.986M	17.945M	37.681M	17.945M
5700MHz	Pass	Inf	19.928M	17.656M	20.29M	17.656M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.565M	13.98M	23.13M	14.023M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.884M	10.304M	3.768M	10.246M
5745MHz	Pass	500k	17.681M	18.596M	17.681M	18.09M
5785MHz	Pass	500k	17.681M	18.452M	17.681M	18.09M
5825MHz	Pass	500k	17.681M	18.452M	17.681M	18.017M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	36.035M	40.29M	36.179M
5230MHz	Pass	Inf	40.58M	36.179M	40.145M	36.179M
5270MHz	Pass	Inf	40M	36.179M	40.435M	36.179M
5310MHz	Pass	Inf	40.29M	36.179M	40.725M	36.179M
5510MHz	Pass	Inf	40.29M	36.179M	40.725M	36.179M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5590MHz	Pass	Inf	76.957M	36.614M	83.043M	36.758M
5670MHz	Pass	Inf	40M	36.179M	40.435M	36.179M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	59.348M	33.227M	36.522M	33.227M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.188M	20.26M	3.13M	20.55M
5755MHz	Pass	500k	36.377M	36.614M	36.377M	36.614M
5795MHz	Pass	500k	36.522M	36.614M	36.522M	36.614M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.449M	75.832M	81.739M	76.122M
5290MHz	Pass	Inf	81.449M	75.832M	81.449M	75.832M
5530MHz	Pass	Inf	81.739M	75.832M	81.739M	75.832M
5610MHz	Pass	Inf	81.449M	75.832M	81.739M	75.832M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	98.478M	72.721M	91.087M	72.721M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.246M	19.74M	3.246M	21.939M
5775MHz	Pass	500k	76.522M	75.832M	76.522M	76.122M

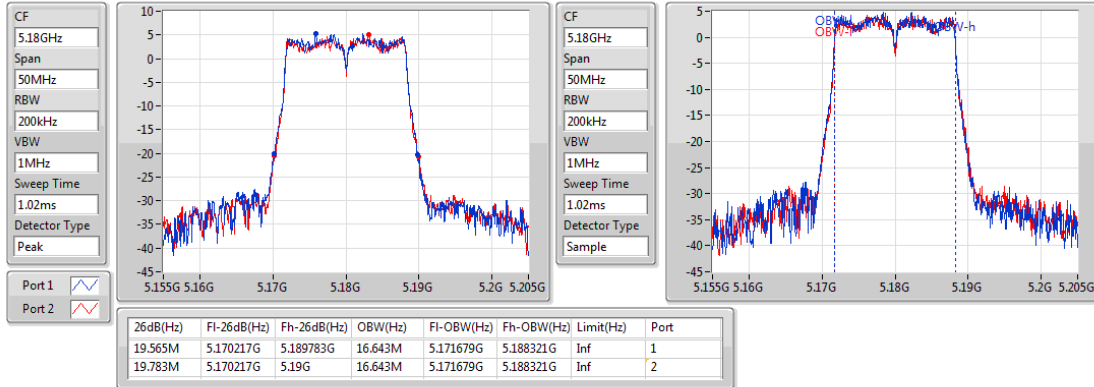
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

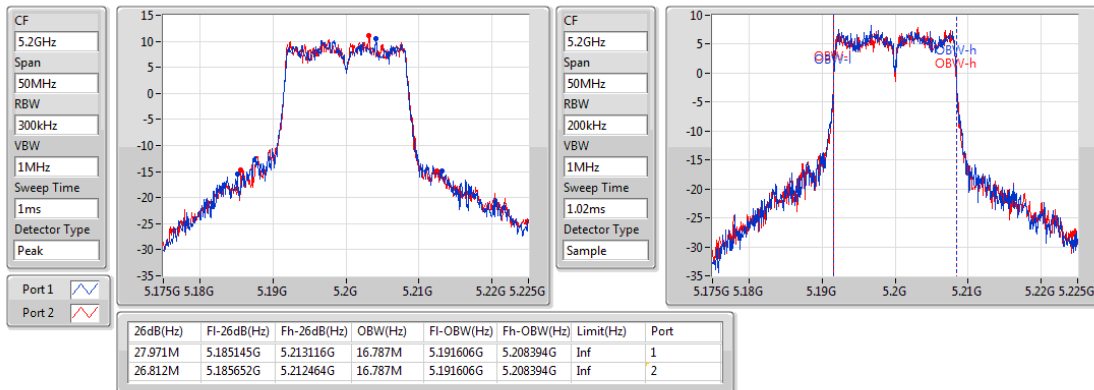
5180MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

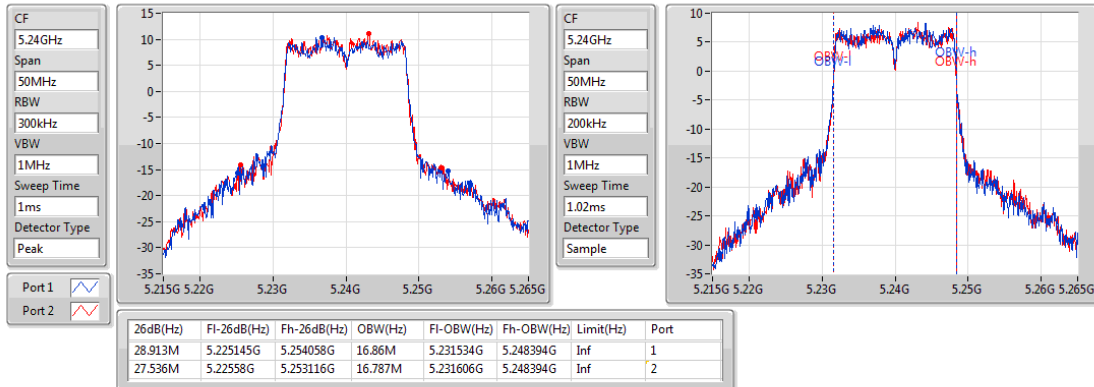
5200MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

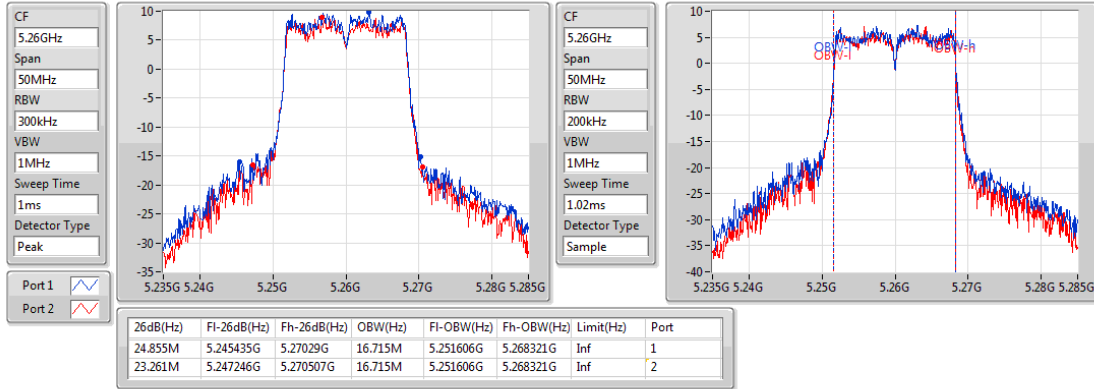
5240MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

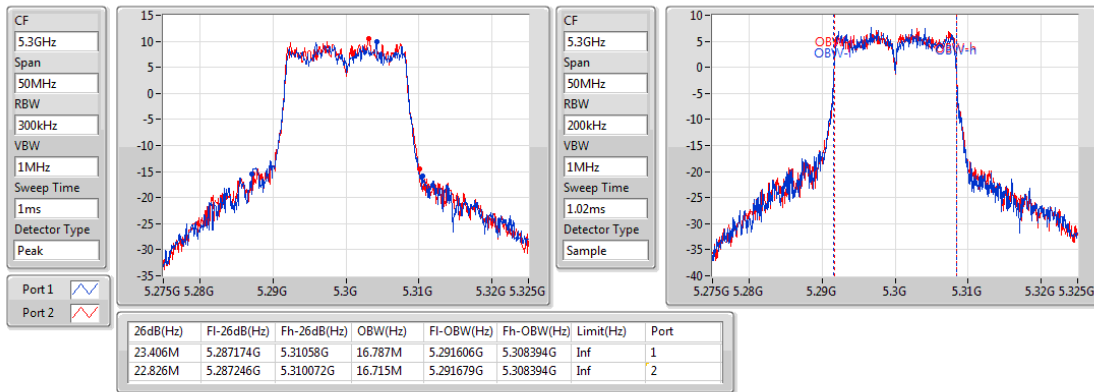
5260MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

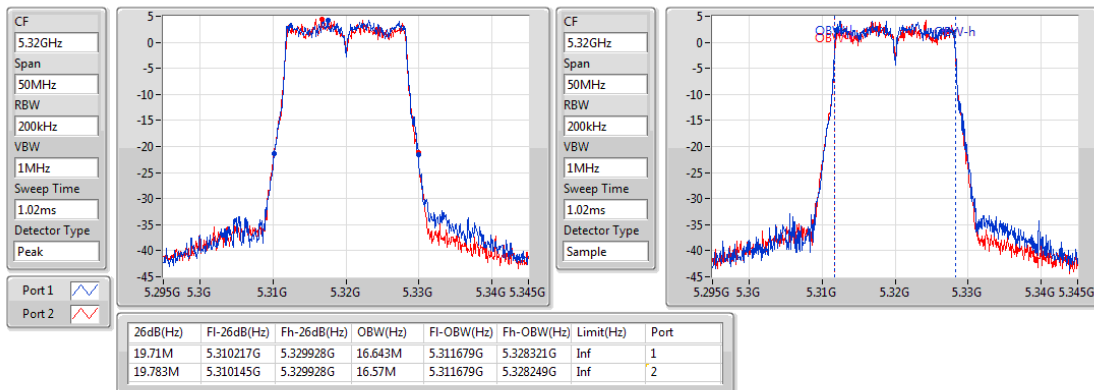
5300MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

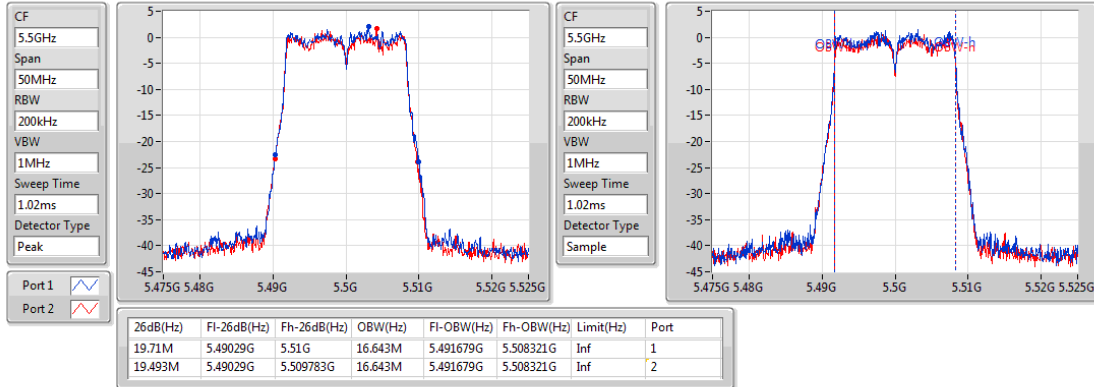
5320MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

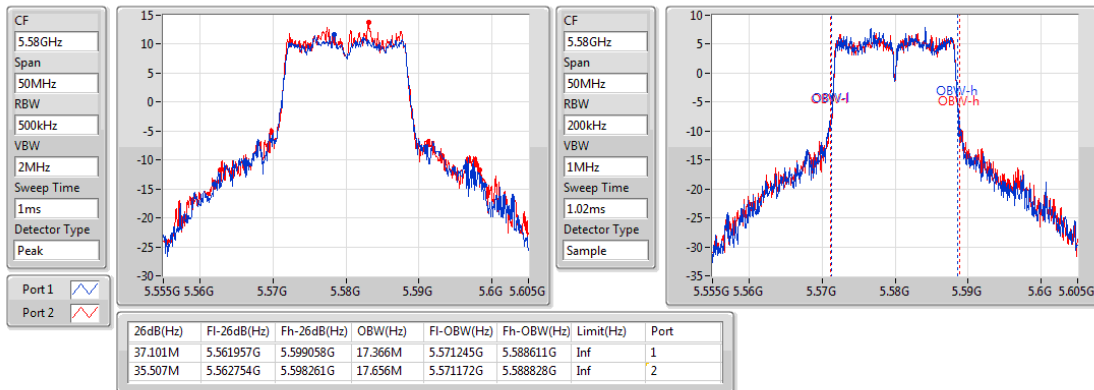
5500MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

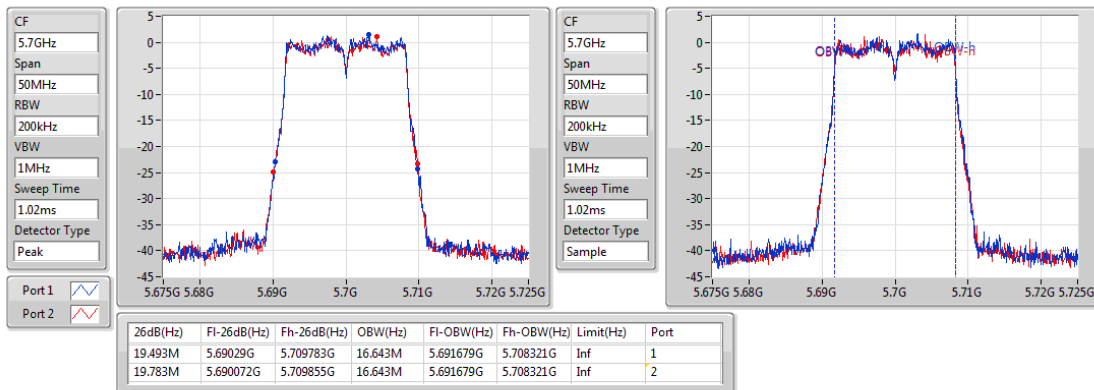
5580MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

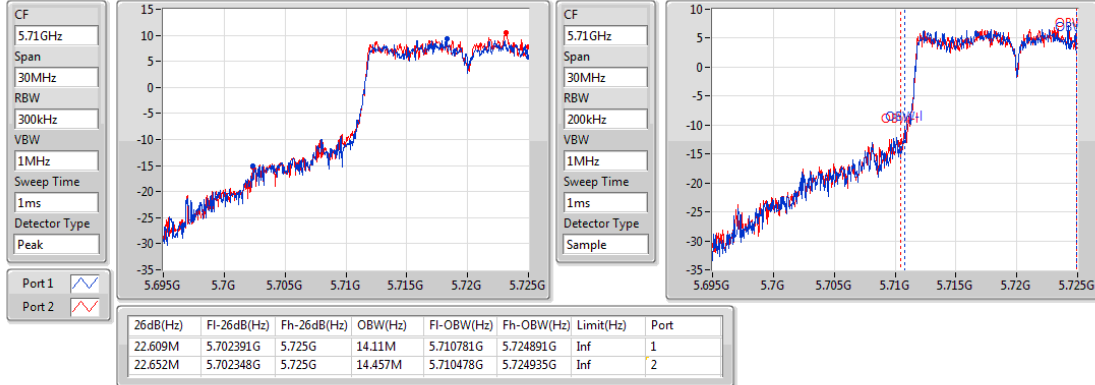
5700MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

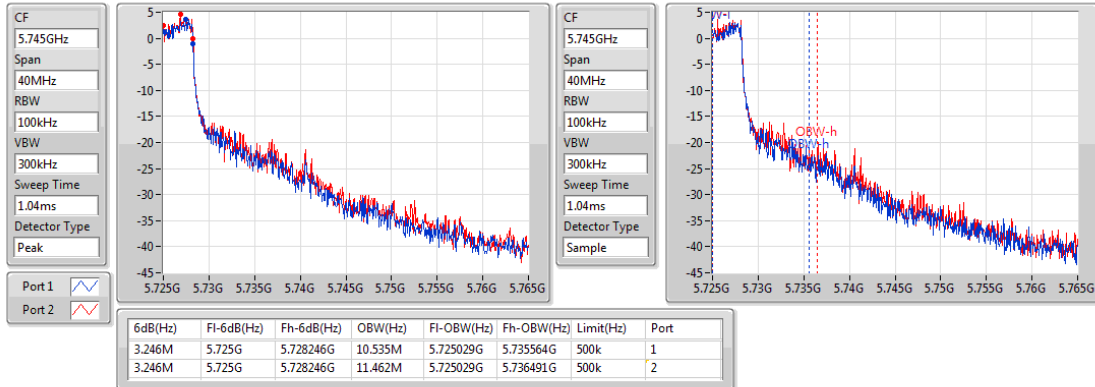
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

EBW

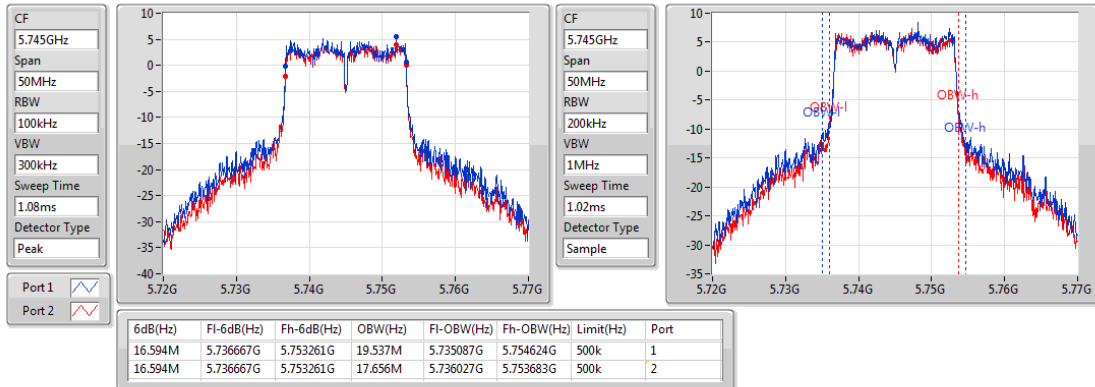
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

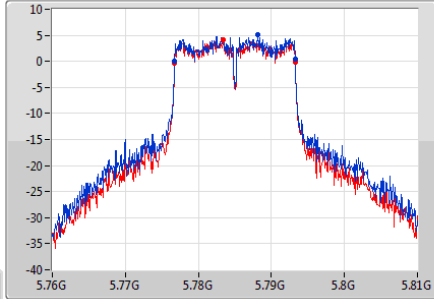


802.11a_Nss1,(6Mbps)_2TX

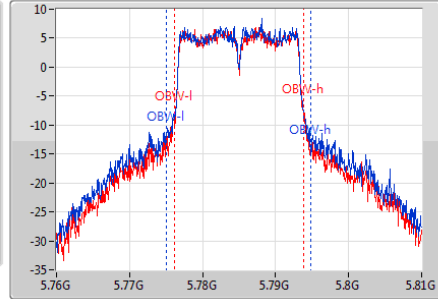
EBW

5785MHz

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
1.08ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
1.02ms
Detector Type
Sample



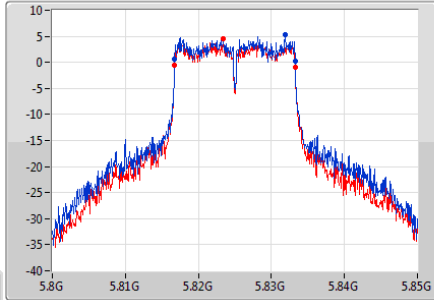
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.522M	5.776739G	5.793261G	19.682M	5.775087G	5.794768G	500k	1
16.522M	5.776739G	5.793261G	17.728M	5.7761G	5.793828G	500k	2

802.11a_Nss1,(6Mbps)_2TX

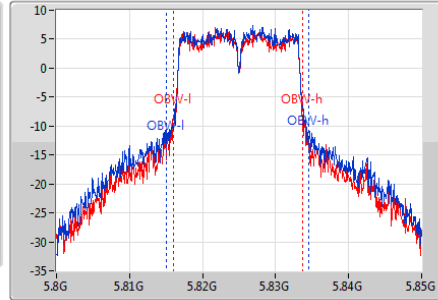
EBW

5825MHz

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
1.08ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
1.02ms
Detector Type
Sample



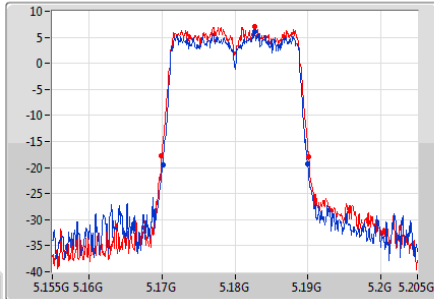
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.522M	5.816739G	5.833261G	19.465M	5.815014G	5.834479G	500k	1
16.522M	5.816739G	5.833261G	17.656M	5.816027G	5.833683G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX

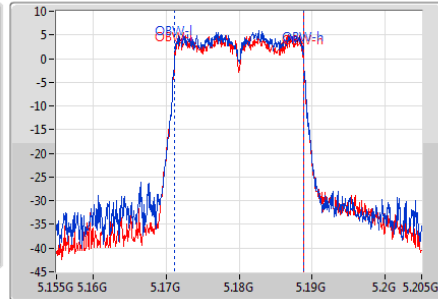
EBW

5180MHz

CF
5.18GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
1ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
1.02ms
Detector Type
Sample

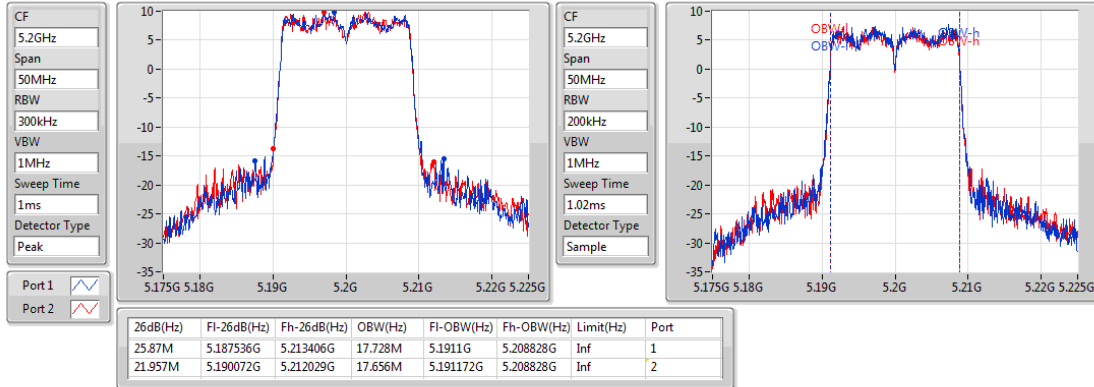


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.855M	5.170145G	5.19G	17.656M	5.171172G	5.188828G	Inf	1
20.217M	5.169928G	5.190145G	17.656M	5.171172G	5.188828G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

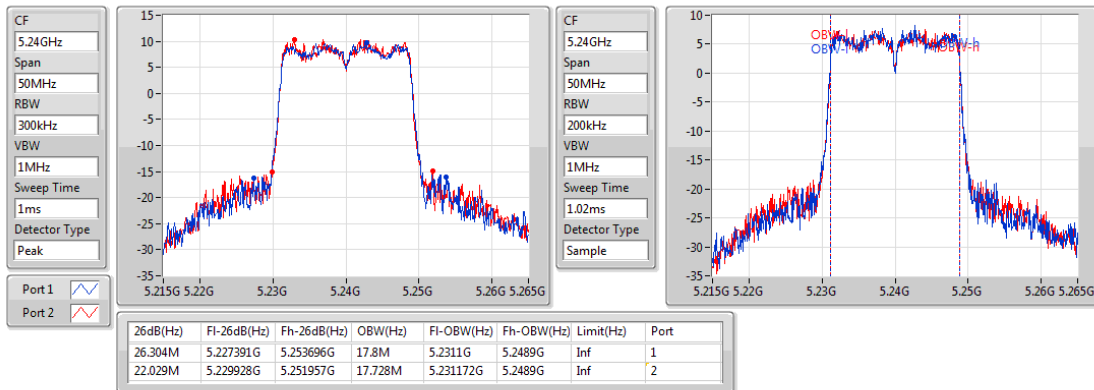
5200MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

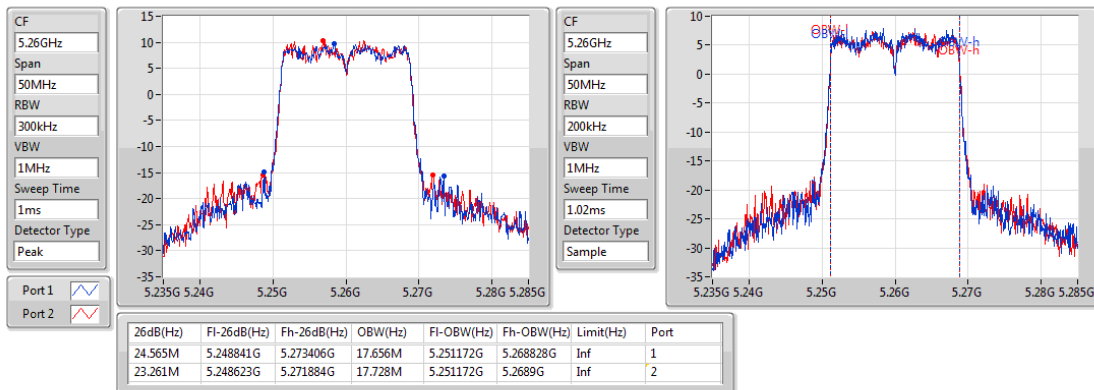
5240MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

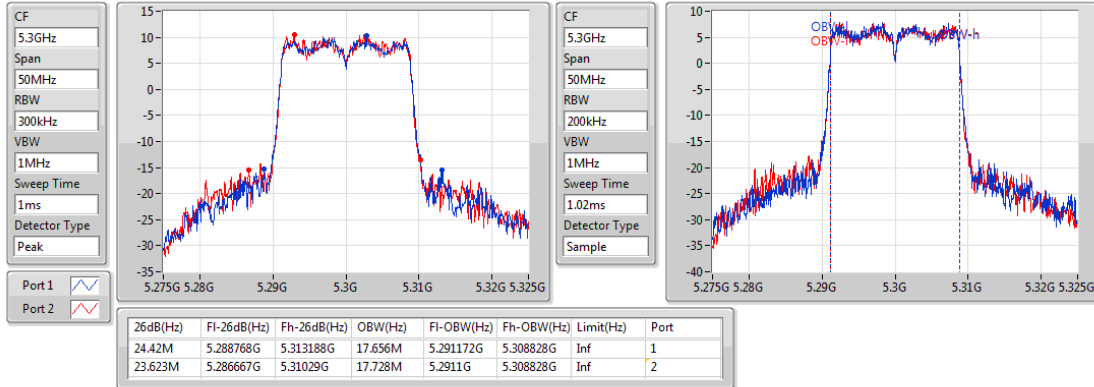
5260MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

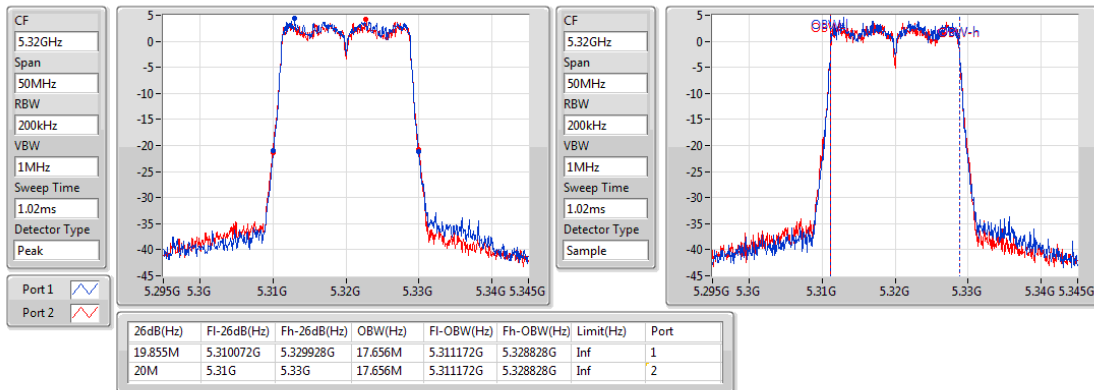
5300MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

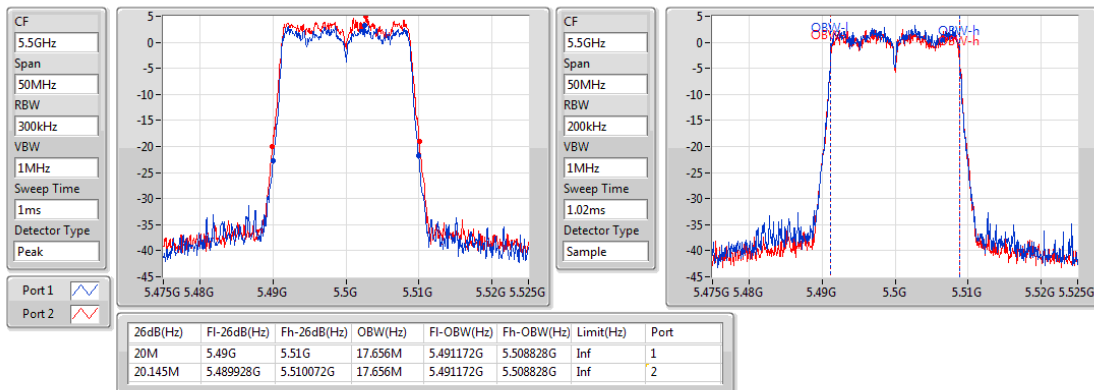
5320MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

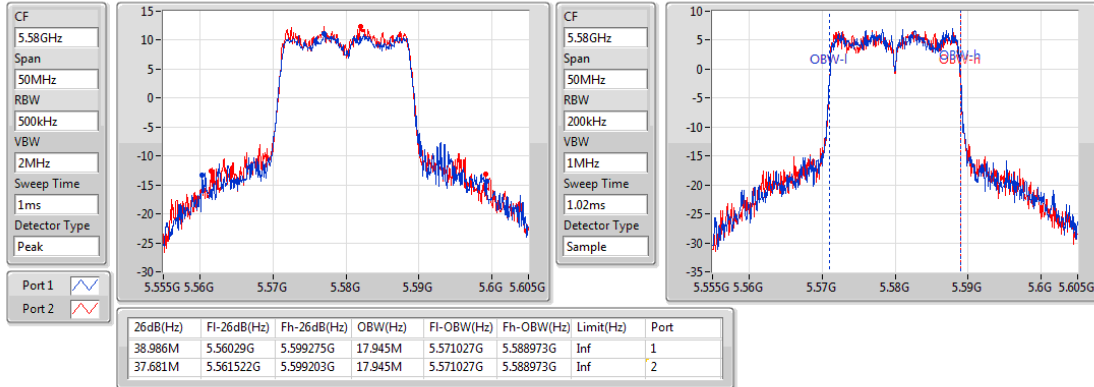
5500MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

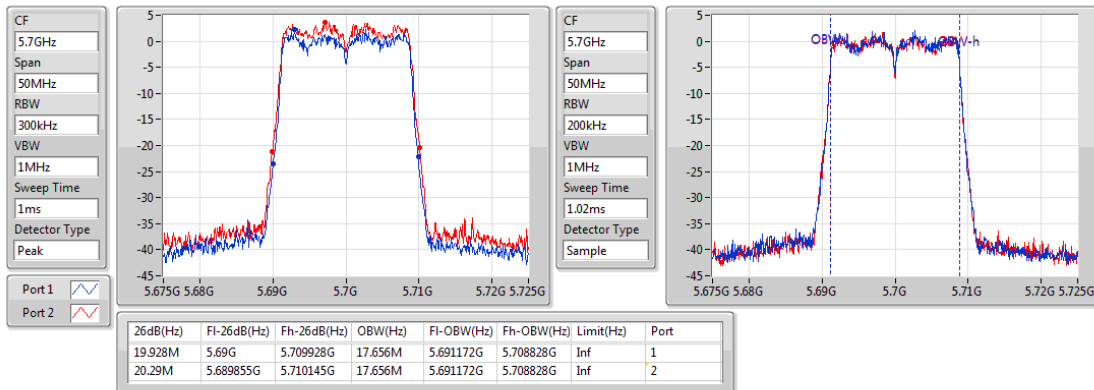
5580MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

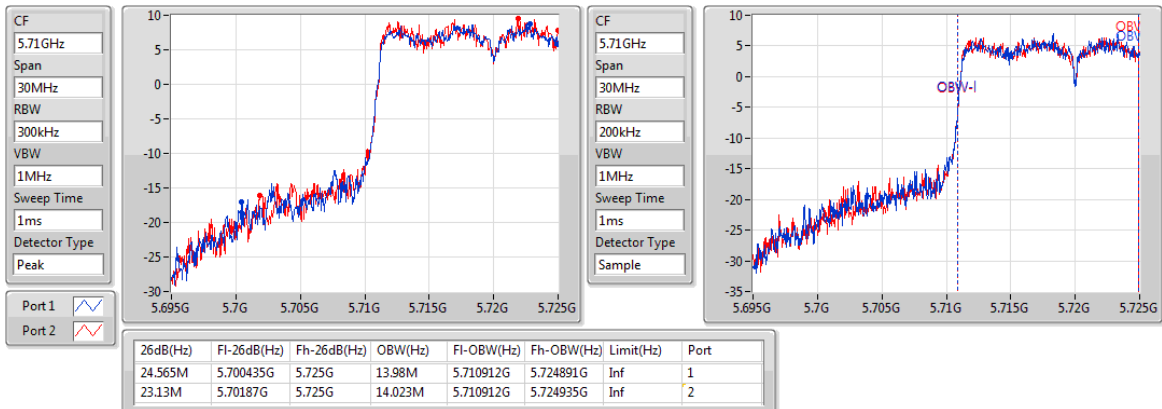
5700MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

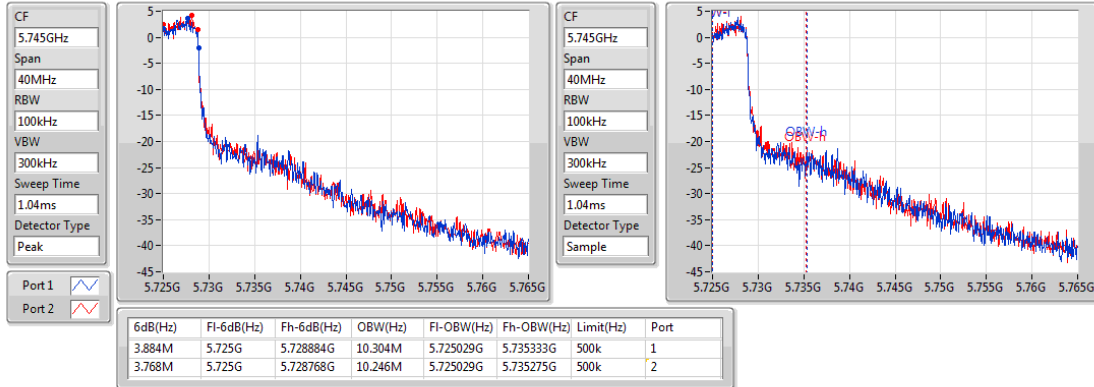
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

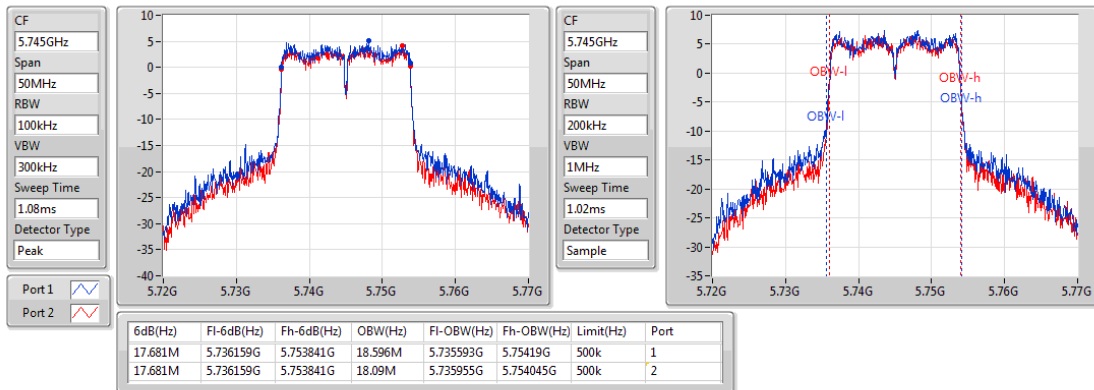
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

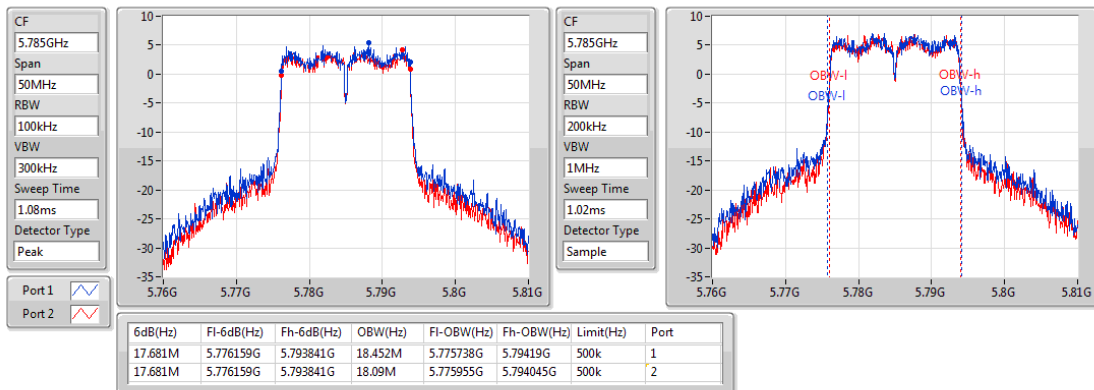
5745MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

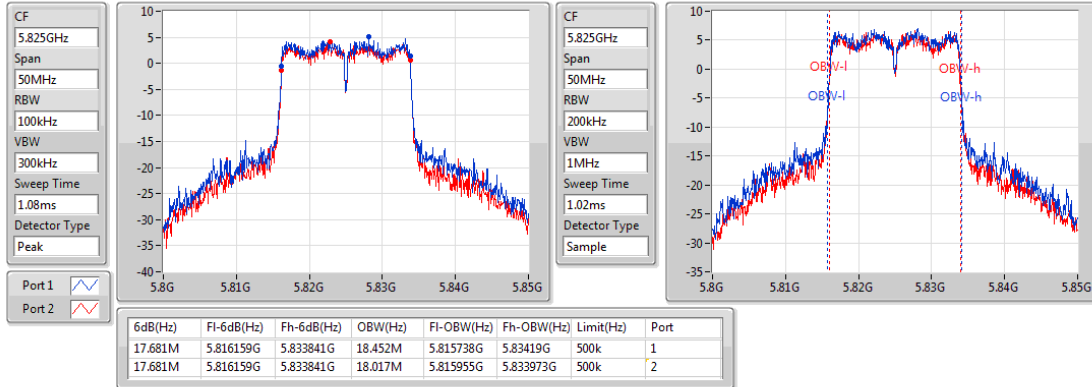
5785MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

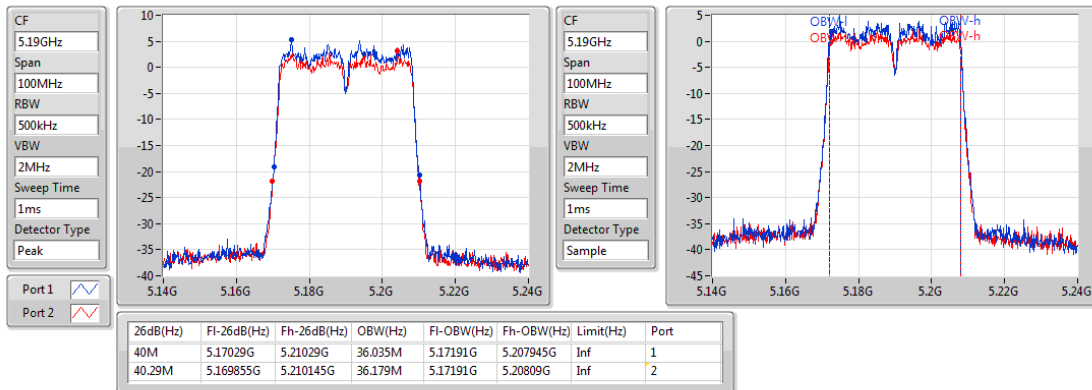
5825MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

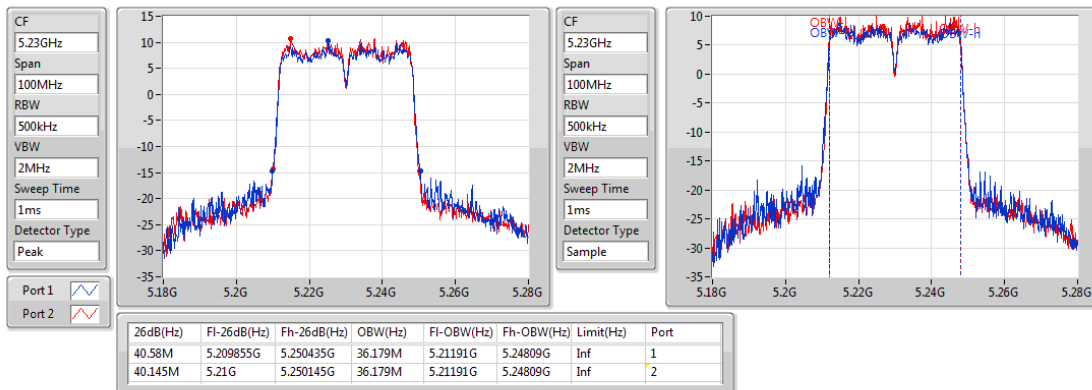
5190MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

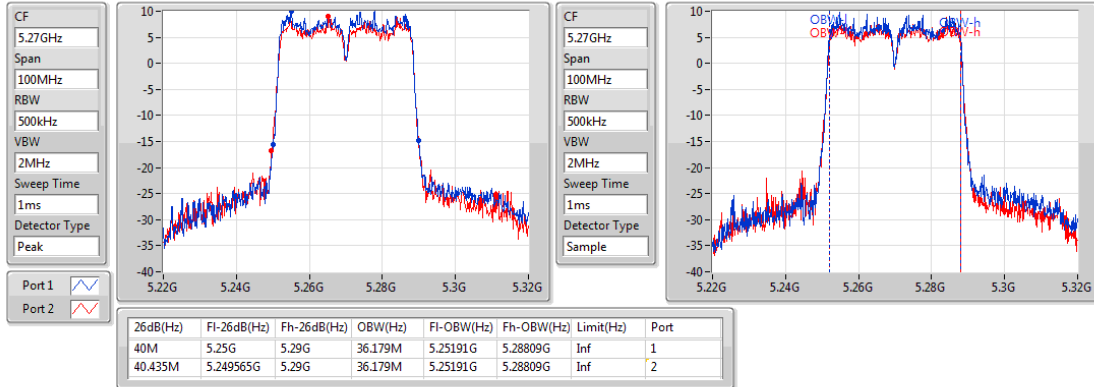
5230MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

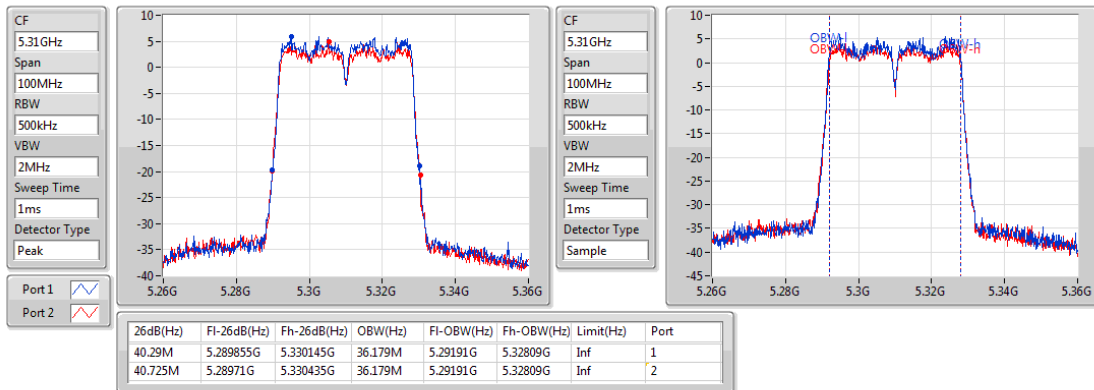
5270MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

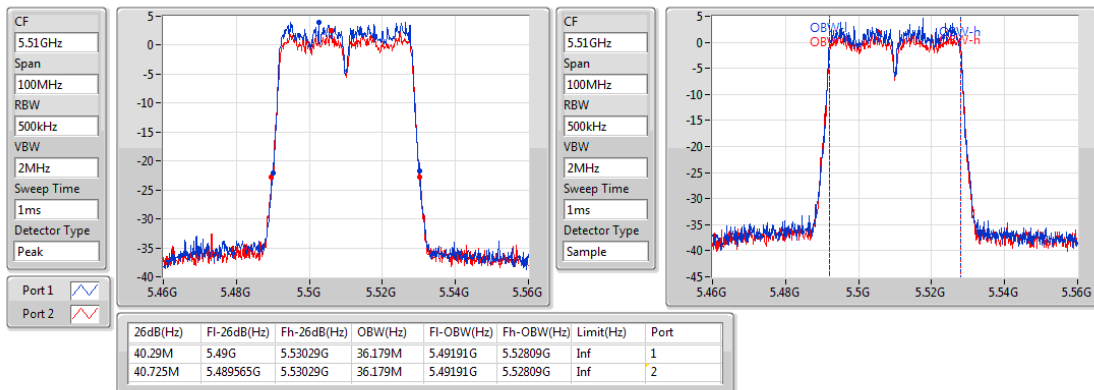
5310MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

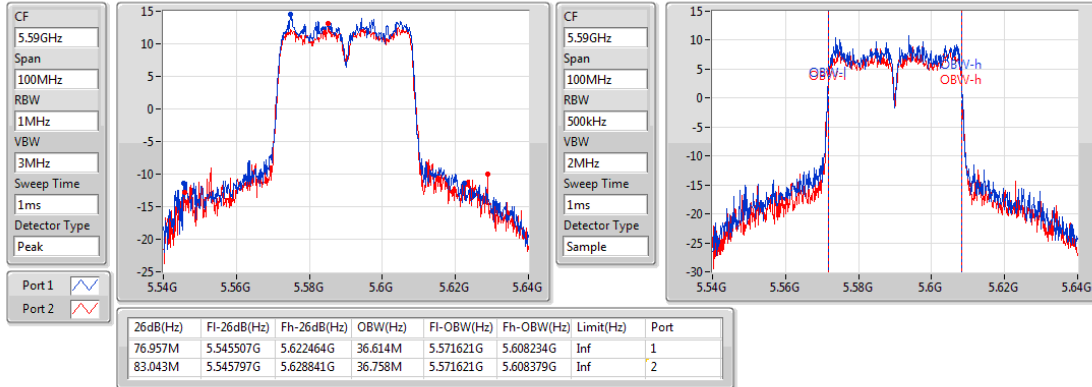
5510MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

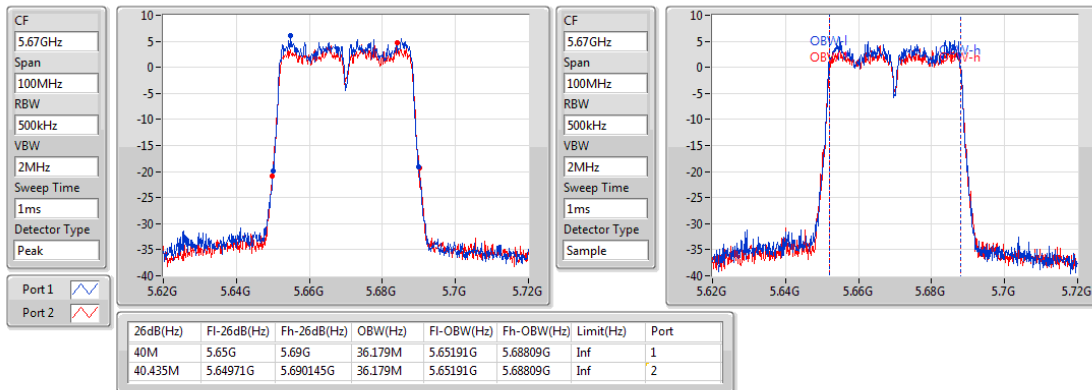
5590MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

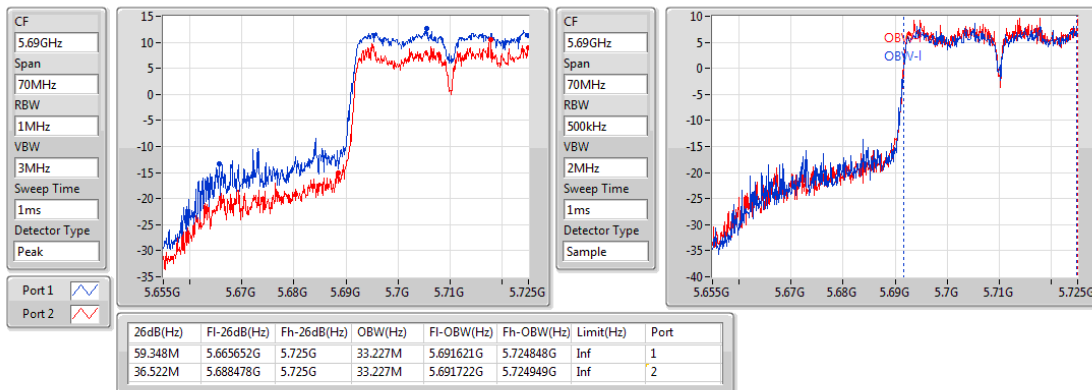
5670MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

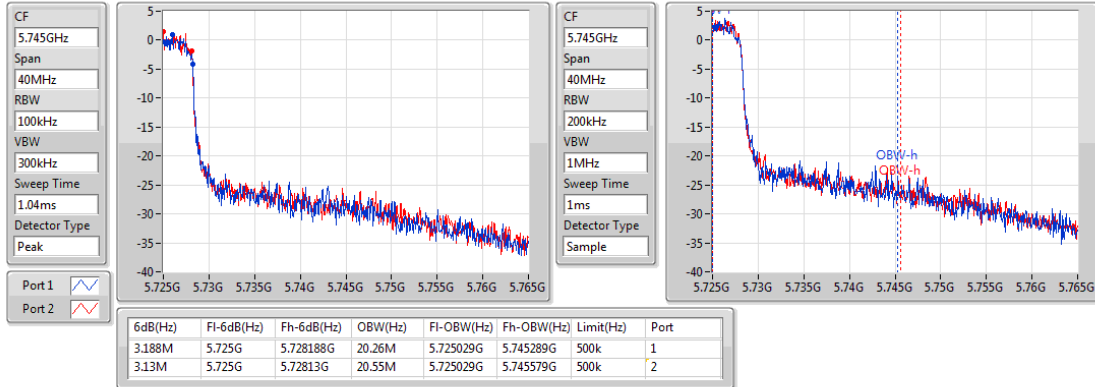
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

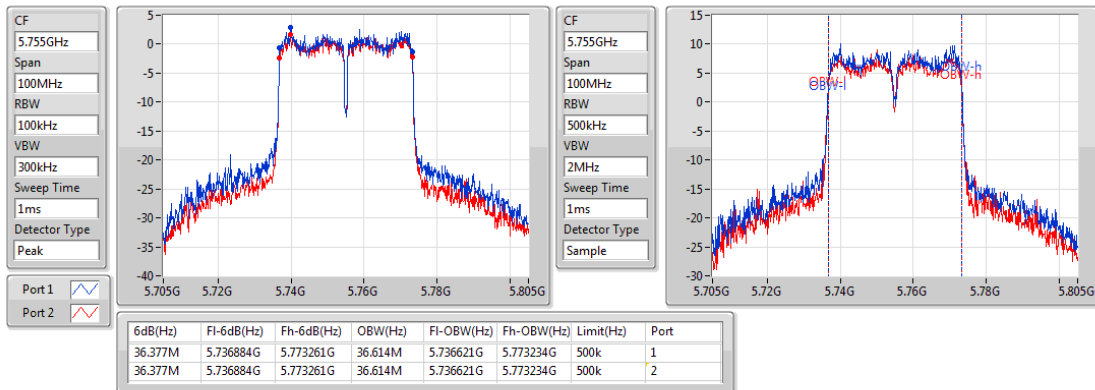
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

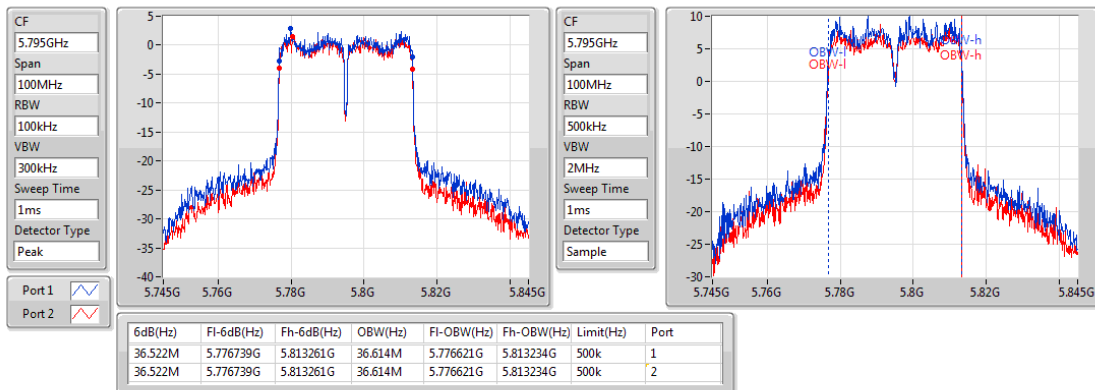
5755MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

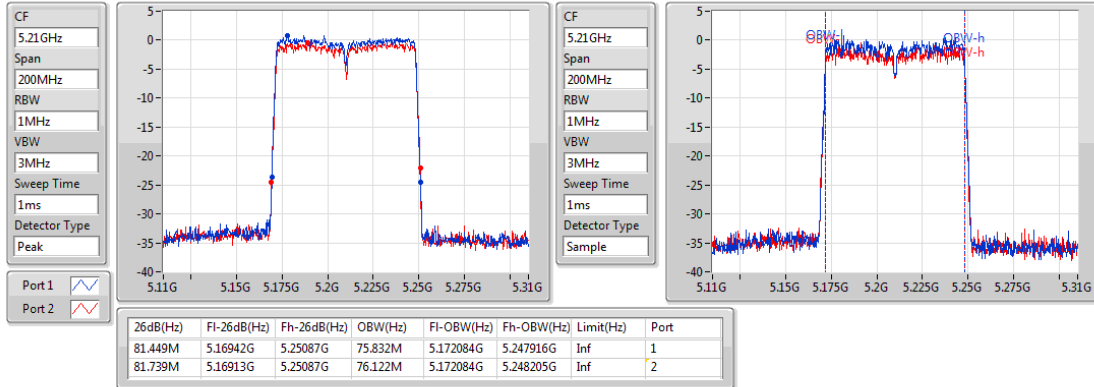
5795MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

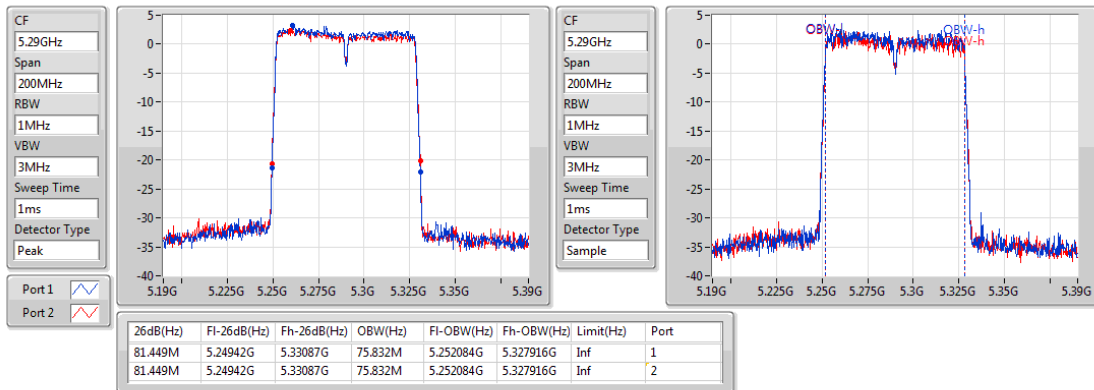
5210MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

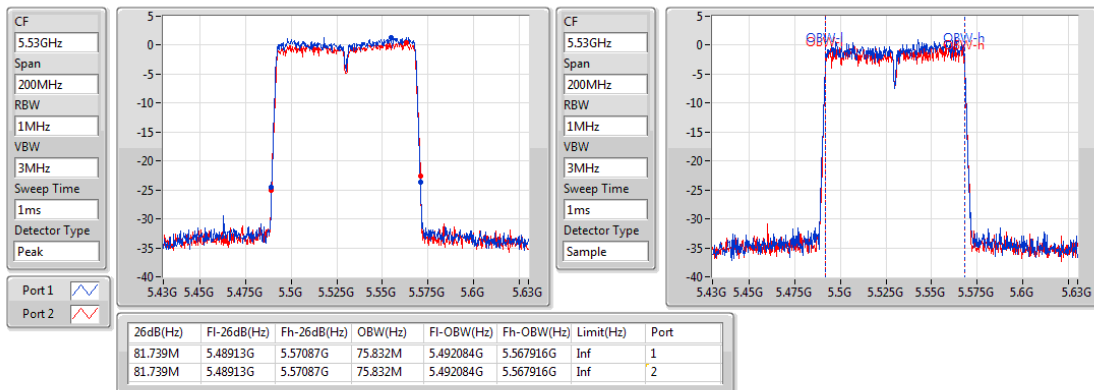
5290MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

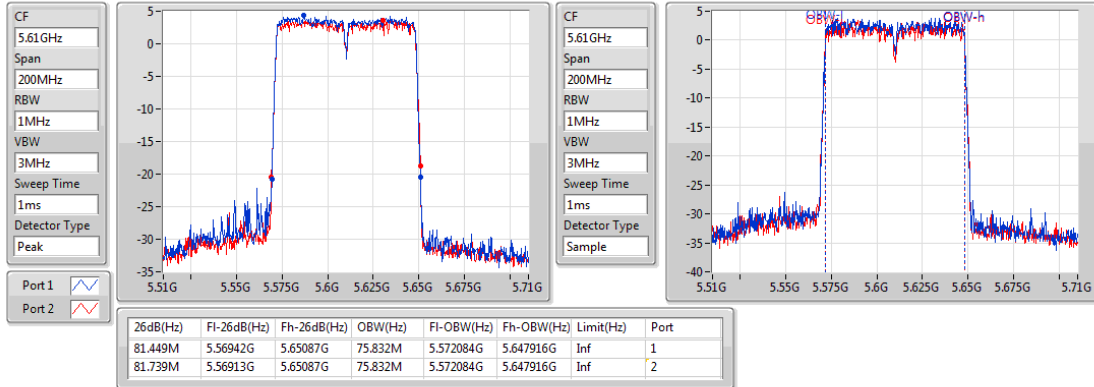
5530MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

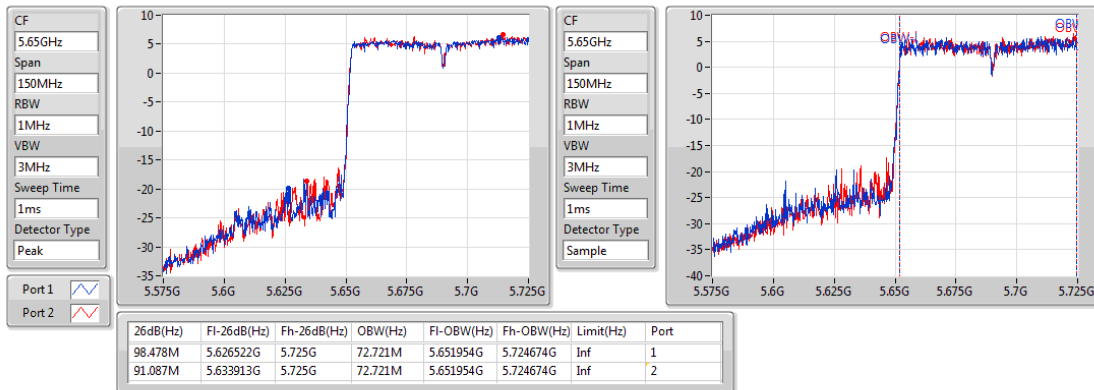
5610MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

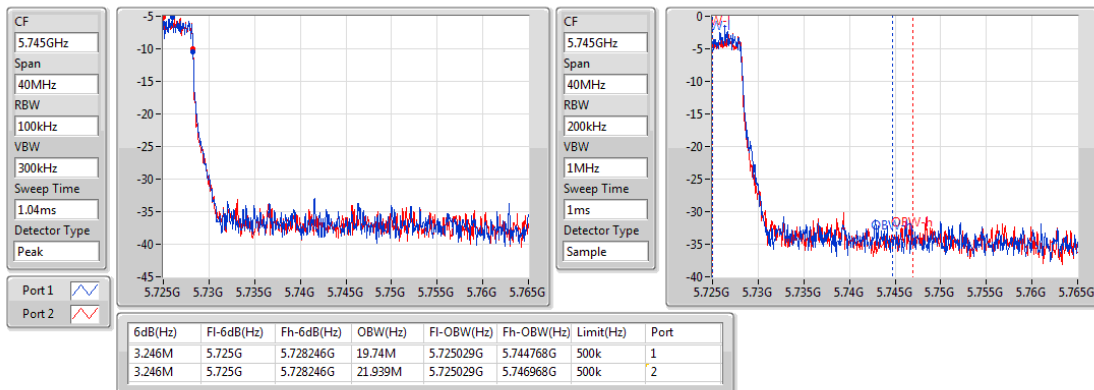
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

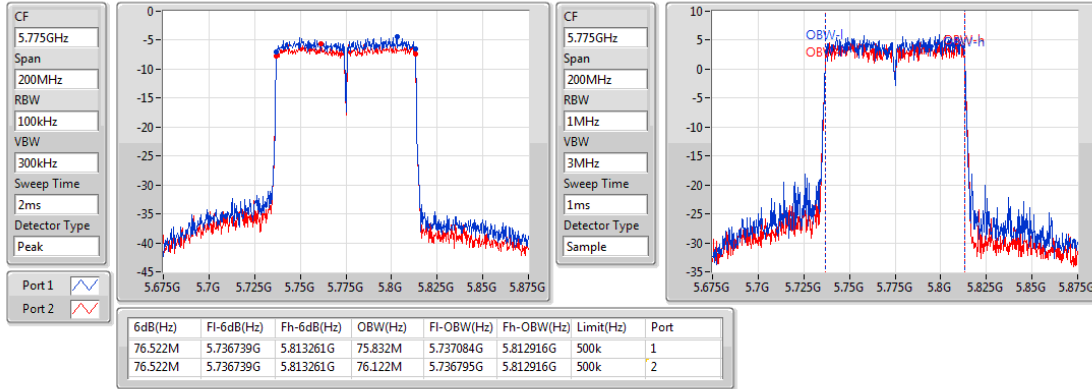
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
<input type="checkbox"/> Indoor access point	Conducted Power: 1 W
<input type="checkbox"/> Fixed point-to-point access points	Conducted Power: 1 W
<input checked="" type="checkbox"/> Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	Conducted Power: 1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.3.2 Test Procedures

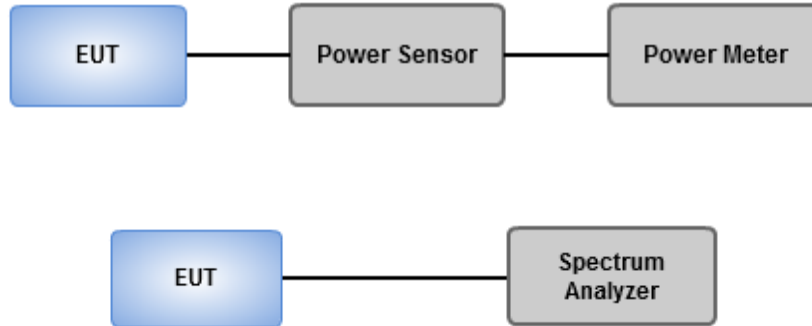
Method PM-G (Measurement using a gated RF average power meter)

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%).

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	20-22°C / 64-66%	Tested By	Aska Huang
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Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.16	0.16444	26.06	0.40365
802.11ac VHT20_Nss1,(MCS0)_2TX	22.36	0.17219	26.26	0.42267
802.11ac VHT40_Nss1,(MCS0)_2TX	22.31	0.17022	26.21	0.41783
802.11ac VHT80_Nss1,(MCS0)_2TX	13.41	0.02193	17.31	0.05383
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.40	0.13804	25.30	0.33884
802.11ac VHT20_Nss1,(MCS0)_2TX	22.46	0.17620	26.36	0.43251
802.11ac VHT40_Nss1,(MCS0)_2TX	21.28	0.13428	25.18	0.32961
802.11ac VHT80_Nss1,(MCS0)_2TX	15.64	0.03664	19.54	0.08995
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.55	0.14289	25.55	0.35892
802.11ac VHT20_Nss1,(MCS0)_2TX	21.75	0.14962	25.75	0.37584
802.11ac VHT40_Nss1,(MCS0)_2TX	21.72	0.14859	25.72	0.37325
802.11ac VHT80_Nss1,(MCS0)_2TX	18.91	0.07780	22.91	0.19543
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.65	0.14622	25.65	0.36728
802.11ac VHT20_Nss1,(MCS0)_2TX	21.82	0.15205	25.82	0.38194
802.11ac VHT40_Nss1,(MCS0)_2TX	21.80	0.15136	25.80	0.38019
802.11ac VHT80_Nss1,(MCS0)_2TX	18.64	0.07311	22.64	0.18365

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.07	14.72	17.91	24.00	21.81	30.00
5200MHz	Pass	3.90	19.01	19.02	22.03	24.00	25.93	30.00
5240MHz	Pass	3.90	19.05	19.25	22.16	24.00	26.06	30.00
5260MHz	Pass	3.90	18.05	18.11	21.09	24.00	24.99	30.00
5300MHz	Pass	3.90	18.25	18.53	21.40	24.00	25.30	30.00
5320MHz	Pass	3.90	15.29	15.7	18.51	23.95	22.41	29.95
5500MHz	Pass	4.00	12.59	12.12	15.37	23.90	19.37	29.90
5580MHz	Pass	4.00	18.46	18.61	21.55	24.00	25.55	30.00
5700MHz	Pass	4.00	12.63	12.86	15.76	23.90	19.76	29.90
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	17.16	17.31	20.25	24.00	24.25	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	11.19	11.41	14.31	30.00	18.31	36.00
5745MHz	Pass	4.00	18.47	18.61	21.55	30.00	25.55	36.00
5785MHz	Pass	4.00	18.49	18.78	21.65	30.00	25.65	36.00
5825MHz	Pass	4.00	18.05	18.49	21.29	30.00	25.29	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.90	17.02	16.91	19.98	24.00	23.88	30.00
5200MHz	Pass	3.90	19.35	19.14	22.26	24.00	26.16	30.00
5240MHz	Pass	3.90	19.31	19.38	22.36	24.00	26.26	30.00
5260MHz	Pass	3.90	19.19	19.17	22.19	24.00	26.09	30.00
5300MHz	Pass	3.90	19.36	19.54	22.46	24.00	26.36	30.00
5320MHz	Pass	3.90	15.56	15.75	18.67	23.98	22.57	29.98
5500MHz	Pass	4.00	14.11	14.23	17.18	24.00	21.18	30.00
5580MHz	Pass	4.00	18.75	18.73	21.75	24.00	25.75	30.00
5700MHz	Pass	4.00	13.78	13.95	16.88	23.99	20.88	29.99
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	17.28	17.36	20.33	24.00	24.33	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	11.82	11.97	14.91	30.00	18.91	36.00
5745MHz	Pass	4.00	18.76	18.81	21.80	30.00	25.80	36.00
5785MHz	Pass	4.00	18.67	18.95	21.82	30.00	25.82	36.00
5825MHz	Pass	4.00	18.24	18.58	21.42	30.00	25.42	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.90	13.05	12.87	15.97	24.00	19.87	30.00
5230MHz	Pass	3.90	19.28	19.32	22.31	24.00	26.21	30.00
5270MHz	Pass	3.90	18.41	18.12	21.28	24.00	25.18	30.00
5310MHz	Pass	3.90	14.55	14.71	17.64	24.00	21.54	30.00

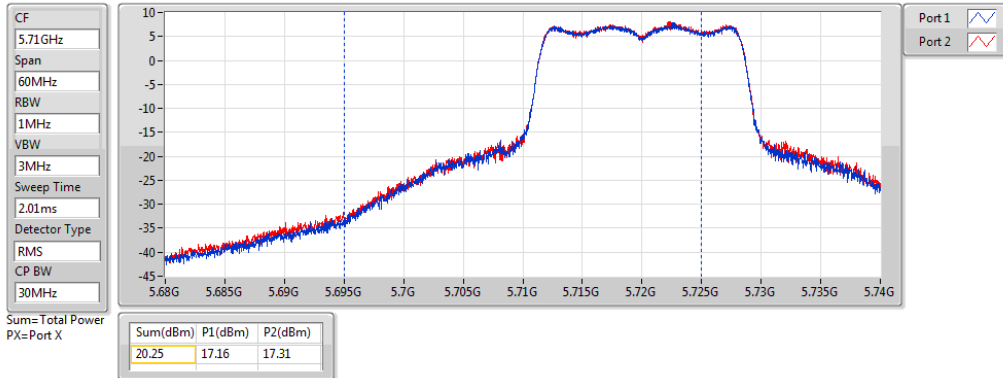
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5510MHz	Pass	4.00	12.61	12.31	15.47	24.00	19.47	30.00
5590MHz	Pass	4.00	18.62	18.79	21.72	24.00	25.72	30.00
5670MHz	Pass	4.00	14.67	14.52	17.61	24.00	21.61	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	17.86	17.88	20.88	24.00	24.88	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	8.39	8.52	11.47	30.00	15.47	36.00
5755MHz	Pass	4.00	18.76	18.81	21.80	30.00	25.80	36.00
5795MHz	Pass	4.00	18.63	18.81	21.73	30.00	25.73	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.90	10.48	10.31	13.41	24.00	17.31	30.00
5290MHz	Pass	3.90	12.61	12.65	15.64	24.00	19.54	30.00
5530MHz	Pass	4.00	10.41	10.45	13.44	24.00	17.44	30.00
5610MHz	Pass	4.00	13.97	13.81	16.90	24.00	20.90	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	15.9	15.9	18.91	24.00	22.91	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	2.65	2.74	5.71	30.00	9.71	36.00
5775MHz	Pass	4.00	15.57	15.68	18.64	30.00	22.64	36.00

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

802.11a_Nss1,(6Mbps)_2TX

AV Power

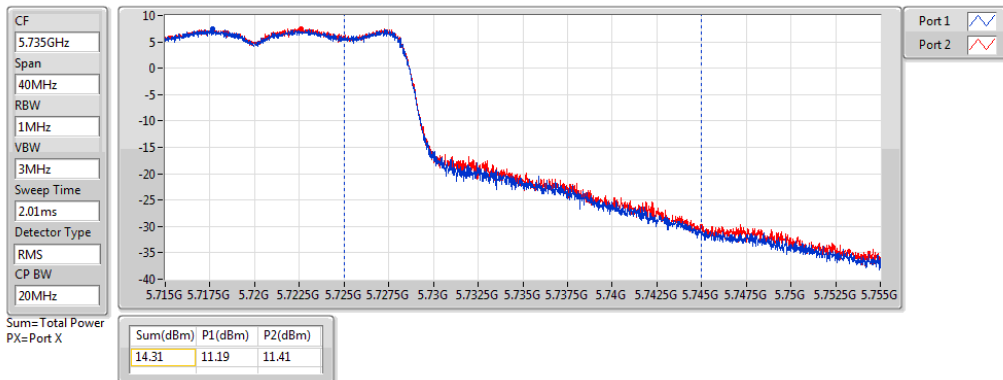
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

AV Power

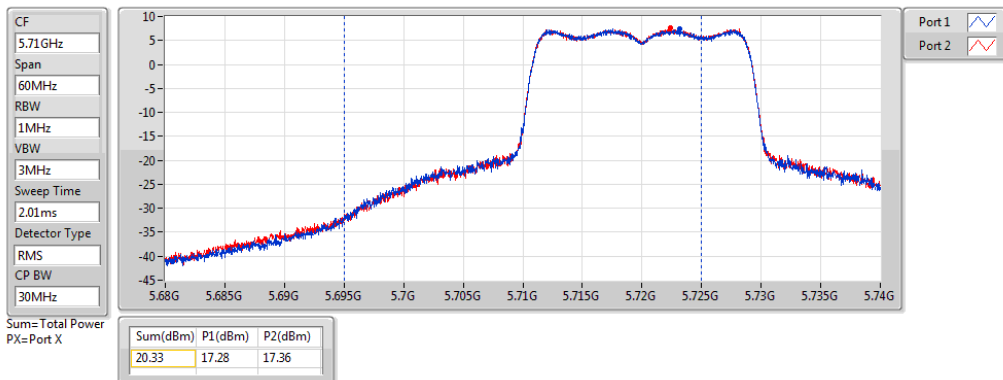
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

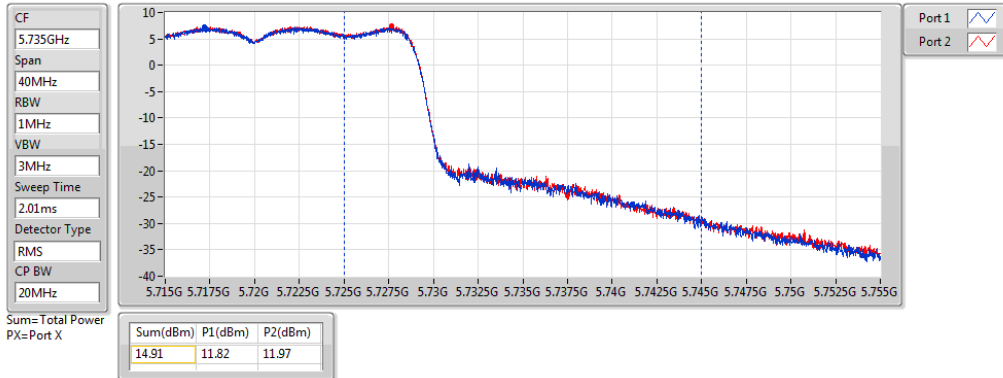
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

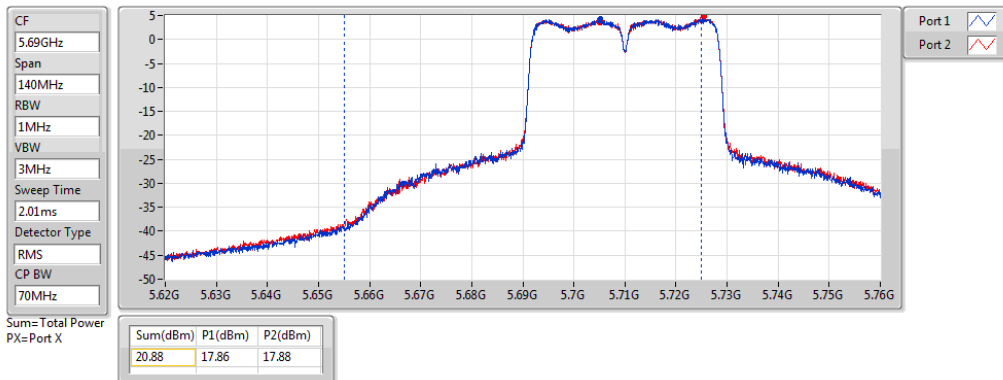
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

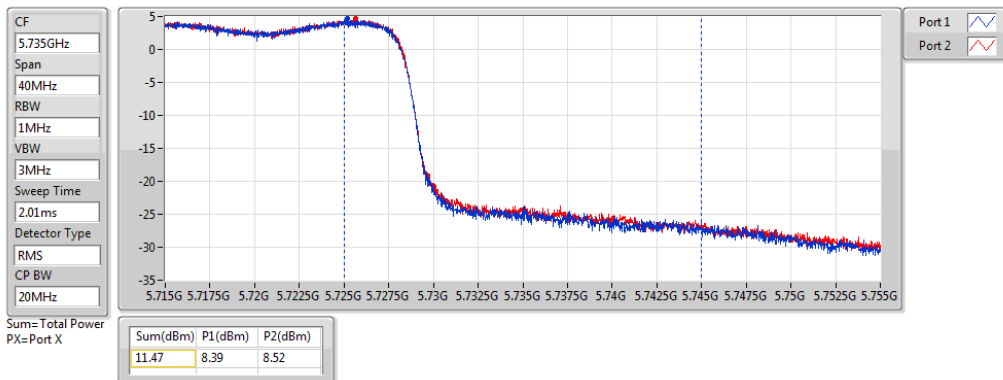
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

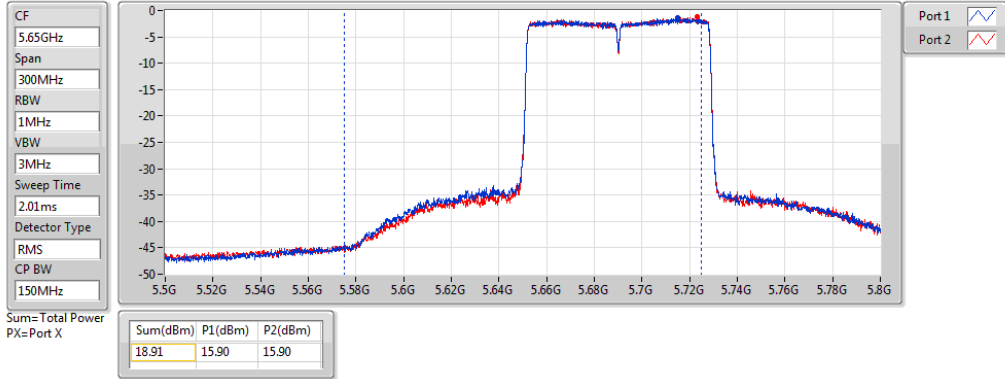
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

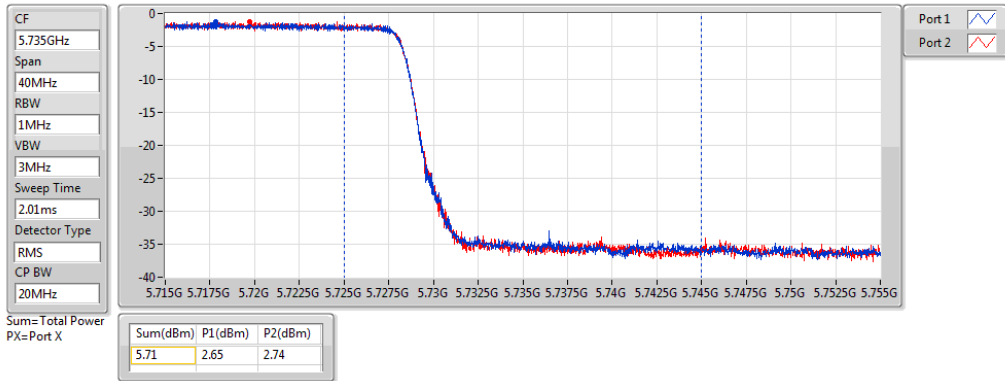
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input checked="" type="checkbox"/>	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/>	5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/>	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

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

Duty cycle \geq 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 $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
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

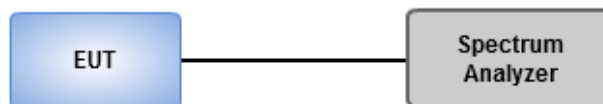
Duty cycle \geq 98 %

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 $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
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.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	20-22°C / 64-66%	Tested By	Aska Huang
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.5	16.41
802.11ac VHT20_Nss1,(MCS0)_2TX	9.47	16.38
802.11ac VHT40_Nss1,(MCS0)_2TX	6.55	13.46
802.11ac VHT80_Nss1,(MCS0)_2TX	-6.64	0.27
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.69	15.60
802.11ac VHT20_Nss1,(MCS0)_2TX	9.42	16.33
802.11ac VHT40_Nss1,(MCS0)_2TX	5.45	12.36
802.11ac VHT80_Nss1,(MCS0)_2TX	-3.99	2.92
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.65	15.66
802.11ac VHT20_Nss1,(MCS0)_2TX	8.51	15.52
802.11ac VHT40_Nss1,(MCS0)_2TX	6.19	13.20
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.45	6.56
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.36	14.37
802.11ac VHT20_Nss1,(MCS0)_2TX	7.2	14.21
802.11ac VHT40_Nss1,(MCS0)_2TX	4.45	11.46
802.11ac VHT80_Nss1,(MCS0)_2TX	-2.22	4.79

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.91	3.29	3.33	6.24	10.09	13.15	17.00
5200MHz	Pass	6.91	6.34	6.31	9.26	10.09	16.17	17.00
5240MHz	Pass	6.91	6.5	6.56	9.50	10.09	16.41	17.00
5260MHz	Pass	6.91	5.73	5.16	8.41	10.09	15.32	17.00
5300MHz	Pass	6.91	5.54	5.82	8.69	10.09	15.60	17.00
5320MHz	Pass	6.91	2.92	2.38	5.59	10.09	12.50	17.00
5500MHz	Pass	7.01	0.13	-0.71	2.70	9.99	9.71	17.00
5580MHz	Pass	7.01	5.6	5.73	8.65	9.99	15.66	17.00
5700MHz	Pass	7.01	-0.16	-0.75	2.48	9.99	9.49	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	5.56	5.54	8.42	9.99	15.43	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	3.85	4.01	6.86	28.99	13.87	36.00
5745MHz	Pass	7.01	4.62	4.08	7.36	28.99	14.37	36.00
5785MHz	Pass	7.01	4.56	4.18	7.36	28.99	14.37	36.00
5825MHz	Pass	7.01	4.38	3.82	7.11	28.99	14.12	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.91	4.45	3.67	7.07	10.09	13.98	17.00
5200MHz	Pass	6.91	6.3	6.1	9.19	10.09	16.10	17.00
5240MHz	Pass	6.91	6.6	6.44	9.47	10.09	16.38	17.00
5260MHz	Pass	6.91	6.41	6.38	9.41	10.09	16.32	17.00
5300MHz	Pass	6.91	6.42	6.57	9.42	10.09	16.33	17.00
5320MHz	Pass	6.91	2.7	2.31	5.50	10.09	12.41	17.00
5500MHz	Pass	7.01	1.83	1.19	4.49	9.99	11.50	17.00
5580MHz	Pass	7.01	5.54	5.53	8.51	9.99	15.52	17.00
5700MHz	Pass	7.01	0.5	0.17	3.33	9.99	10.34	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	5.24	5.43	8.29	9.99	15.30	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	3.78	3.86	6.77	28.99	13.78	36.00
5745MHz	Pass	7.01	4.4	4.02	7.15	28.99	14.16	36.00
5785MHz	Pass	7.01	4.42	4.08	7.20	28.99	14.21	36.00
5825MHz	Pass	7.01	4.21	3.75	6.97	28.99	13.98	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.91	-2.43	-3.23	0.17	10.09	7.08	17.00
5230MHz	Pass	6.91	3.62	3.55	6.55	10.09	13.46	17.00
5270MHz	Pass	6.91	2.6	2.41	5.45	10.09	12.36	17.00
5310MHz	Pass	6.91	-1.11	-1.33	1.79	10.09	8.70	17.00
5510MHz	Pass	7.01	-2.92	-3.62	-0.28	9.99	6.73	17.00
5590MHz	Pass	7.01	3.35	3.15	6.19	9.99	13.20	17.00
5670MHz	Pass	7.01	-1.45	-1.69	1.41	9.99	8.42	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	2.19	2.36	5.26	9.99	12.27	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	0.92	0.95	3.92	28.99	10.93	36.00
5755MHz	Pass	7.01	1.62	1.28	4.45	28.99	11.46	36.00
5795MHz	Pass	7.01	1.5	1.03	4.23	28.99	11.24	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5210MHz	Pass	6.91	-9.24	-9.99	-6.64	10.09	0.27	17.00
5290MHz	Pass	6.91	-6.79	-7.07	-3.99	10.09	2.92	17.00
5530MHz	Pass	7.01	-8.44	-9.03	-5.76	9.99	1.25	17.00
5610MHz	Pass	7.01	-5.52	-5.96	-2.73	9.99	4.28	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	-3.47	-3.39	-0.45	9.99	6.56	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	-5.13	-5.14	-2.22	28.99	4.79	36.00
5775MHz	Pass	7.01	-5.29	-5.97	-2.69	28.99	4.32	36.00

DG = Directional Gain;

For 5.15 ~ 5.35 GHz

Directional Gain = $3.9 + 10 \cdot \log(2/1) = 6.91 \text{ dBi} > 6\text{dBi}$, Limit shall be reduced to 11 dBm – (6.91 dBi – 6 dBi) = 10.09 dBm

For 5.47 ~ 5.725 GHz

Directional Gain = $4 + 10 \cdot \log(2/1) = 7.01 \text{ dBi} > 6\text{dBi}$, Limit shall be reduced to 11 dBm – (7.01 dBi – 6 dBi) = 9.99 dBm

For 5.725 ~ 5.85 GHz

Directional Gain = $4 + 10 \cdot \log(2/1) = 7.01 \text{ dBi} > 6\text{dBi}$, Limit shall be reduced to 30 dBm – (7.01 dBi – 6 dBi) = 28.99 dBm

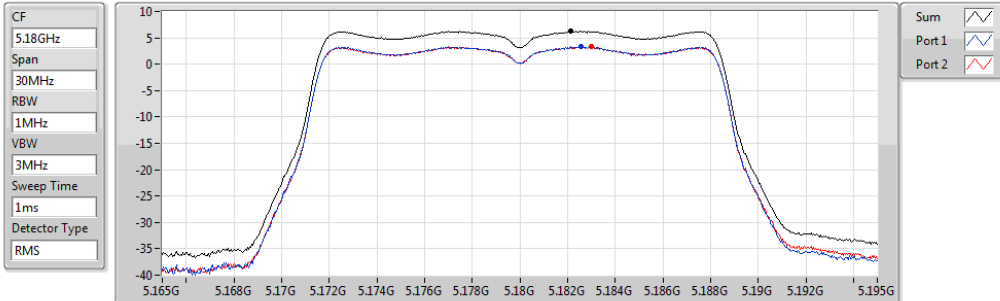
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

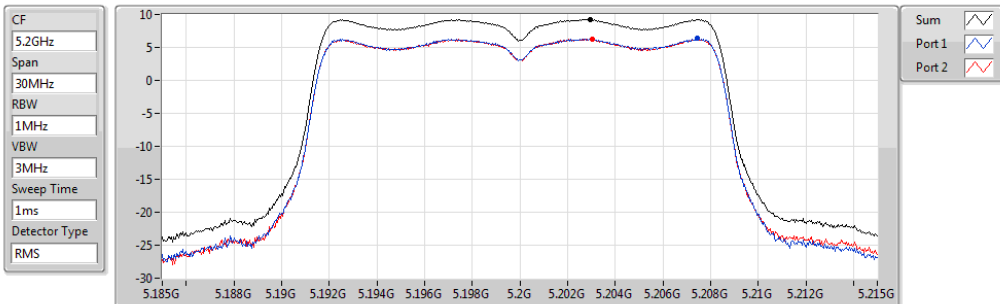


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.24	6.24	3.29	3.33

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

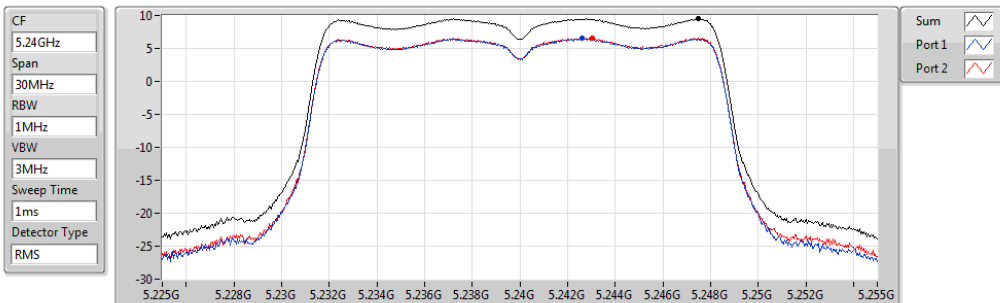


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.26	9.26	6.34	6.31

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

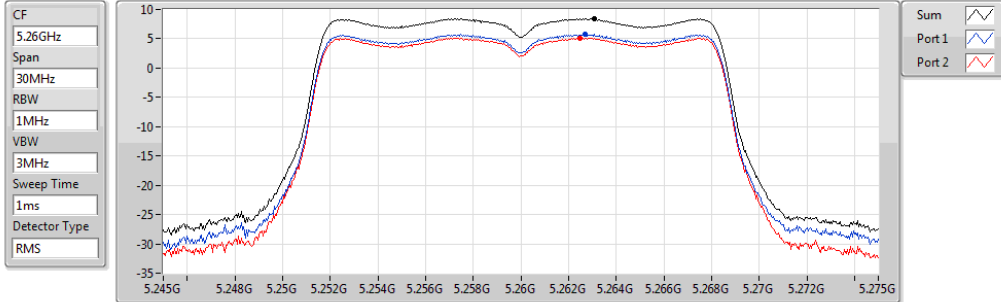


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.50	9.50	6.50	6.56

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

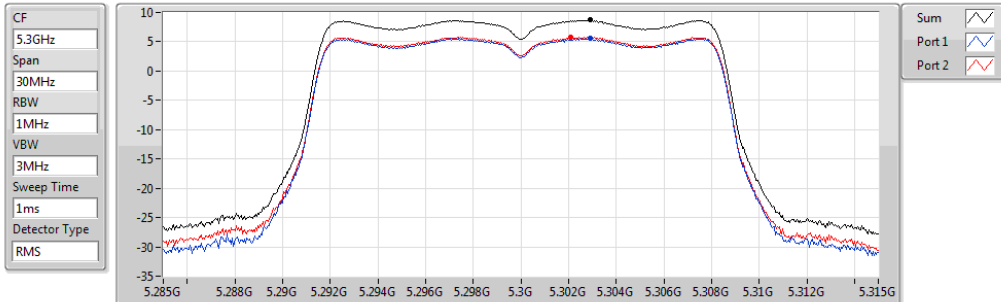


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.41	8.41	5.73	5.16

802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

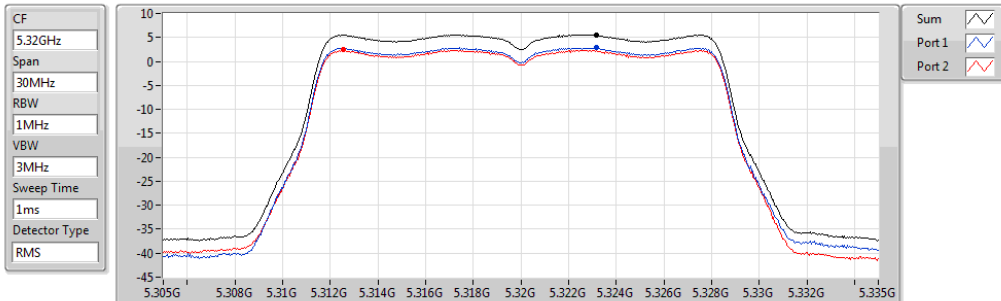


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.69	8.69	5.54	5.82

802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz



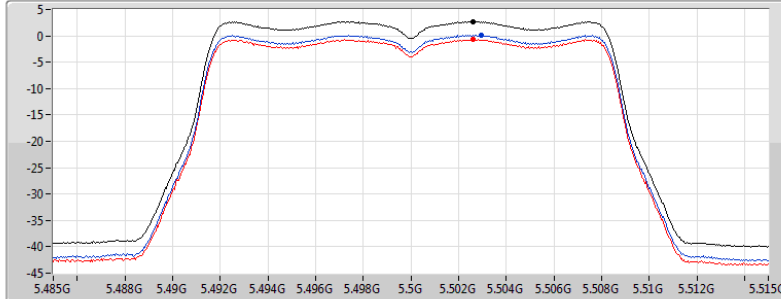
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.59	5.59	2.92	2.38

802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

CF
5.5GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1ms
Detector Type
RMS



Sum
Port 1
Port 2

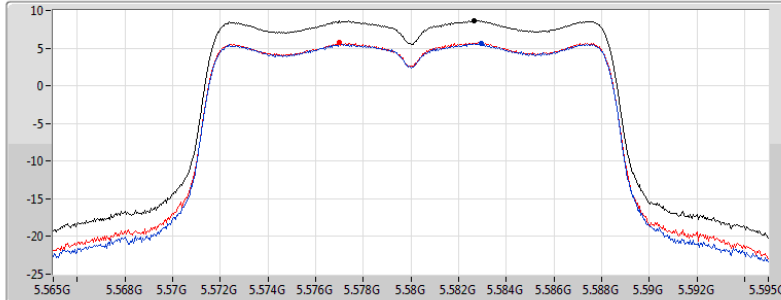
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.70	2.70	0.13	-0.71

802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

CF
5.58GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1ms
Detector Type
RMS



Sum
Port 1
Port 2

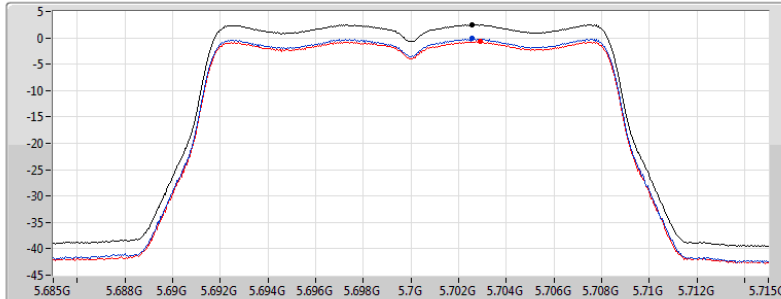
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.65	8.65	5.60	5.73

802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

CF
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1ms
Detector Type
RMS



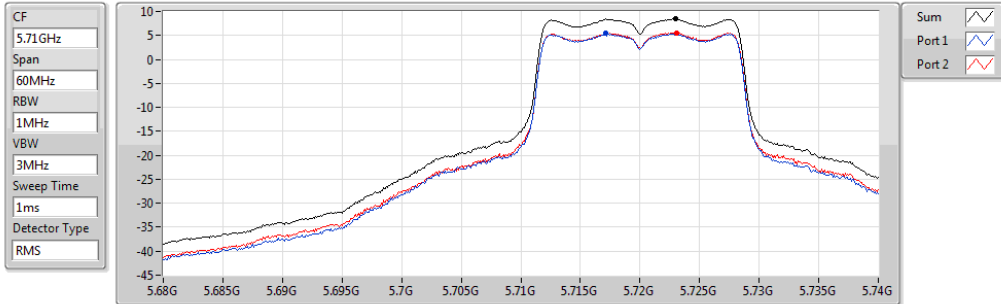
Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.48	2.48	-0.16	-0.75

802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

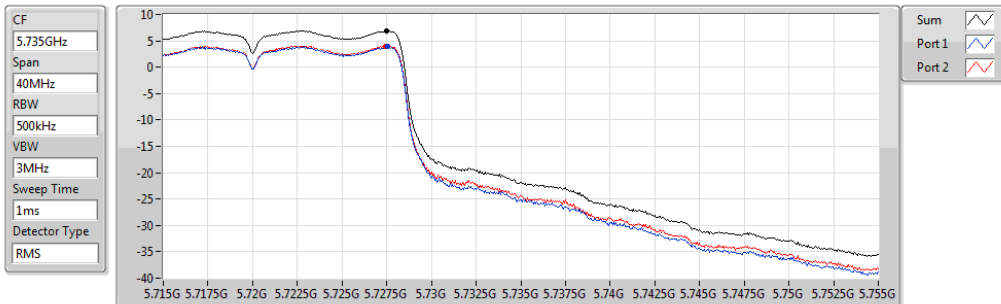


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.42	8.42	5.56	5.54

802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

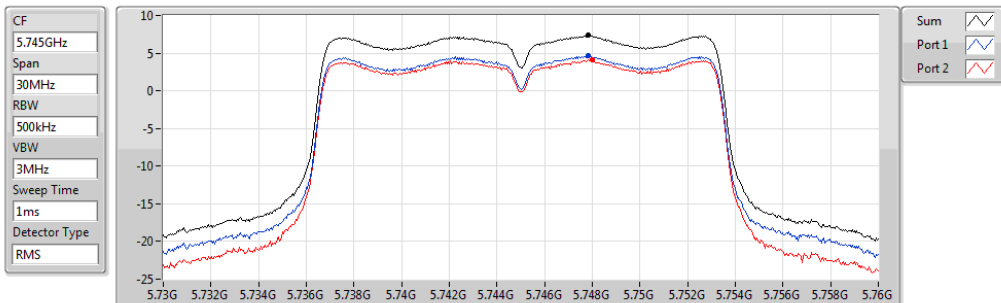


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.86	6.86	3.85	4.01

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

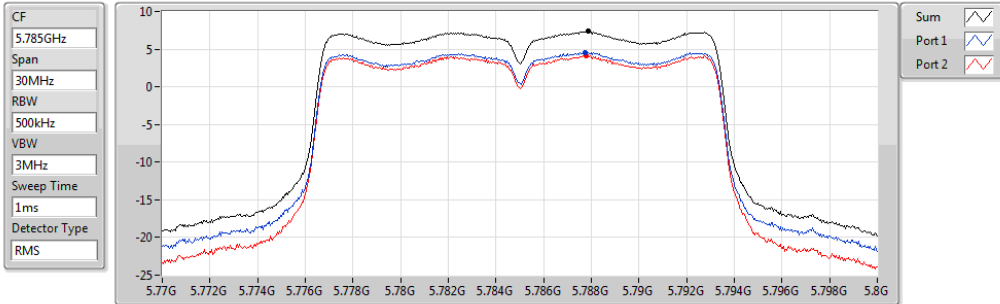


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.36	7.36	4.62	4.08

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

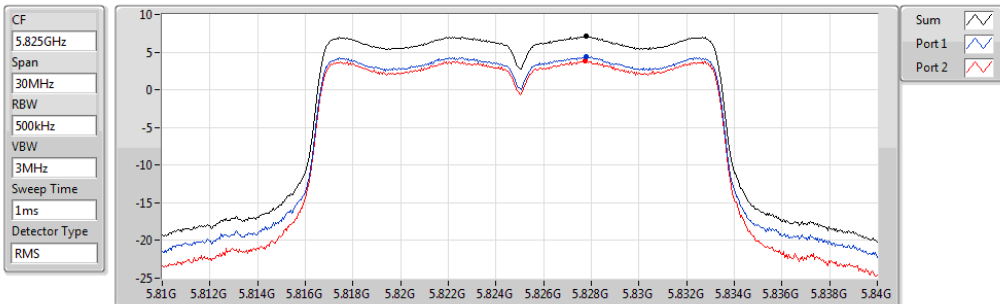


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.36	7.36	4.56	4.18

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

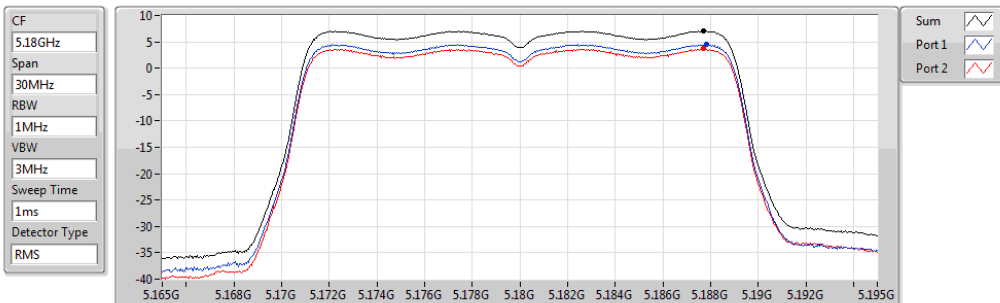


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.11	7.11	4.38	3.82

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

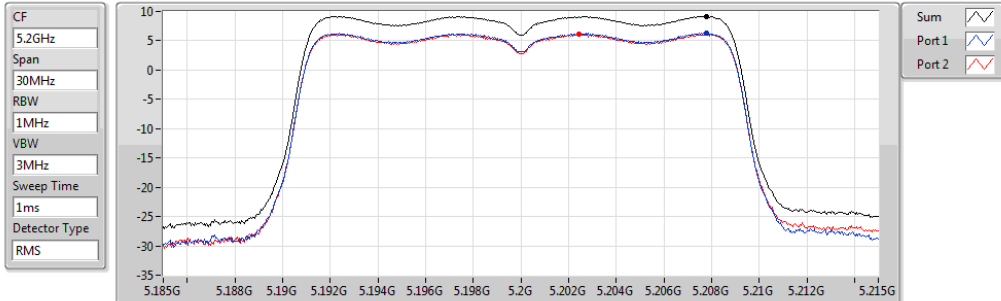


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.07	7.07	4.45	3.67

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

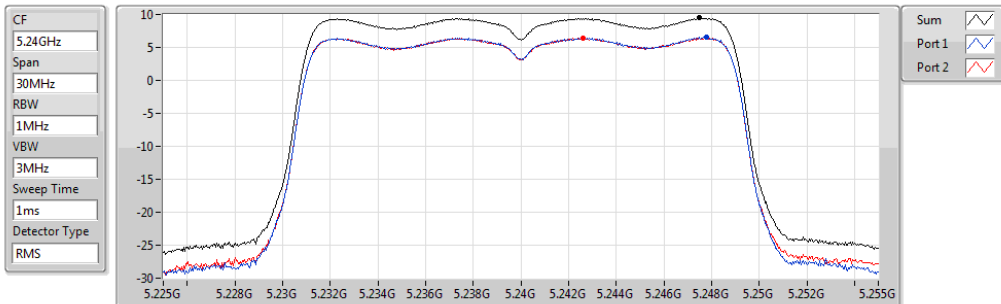


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.19	9.19	6.30	6.10

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

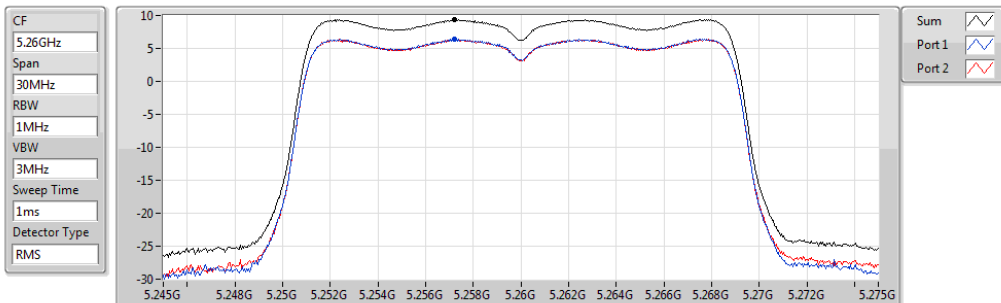


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.47	9.47	6.60	6.44

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

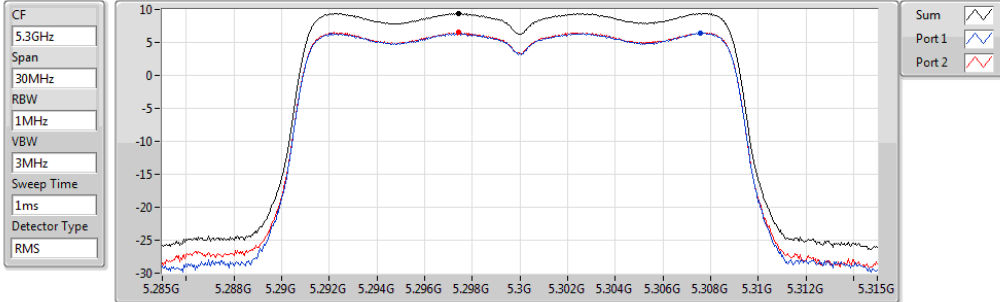


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.41	9.41	6.41	6.38

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

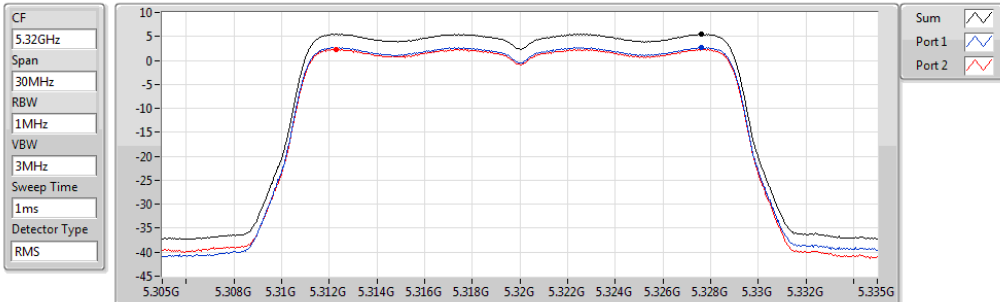


Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
9.42	9.42	6.42	6.57

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

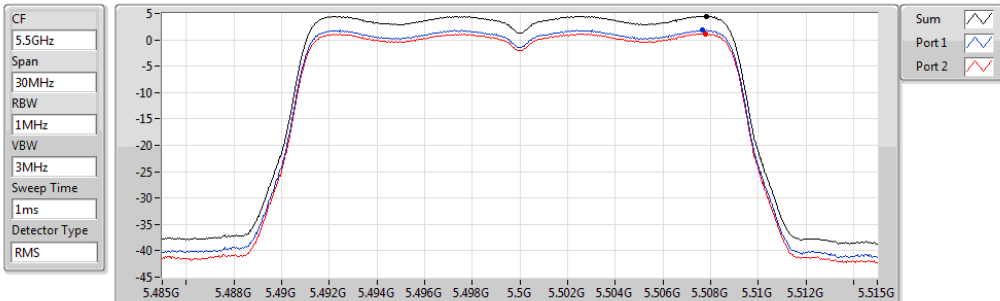


Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
5.50	5.50	2.70	2.31

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

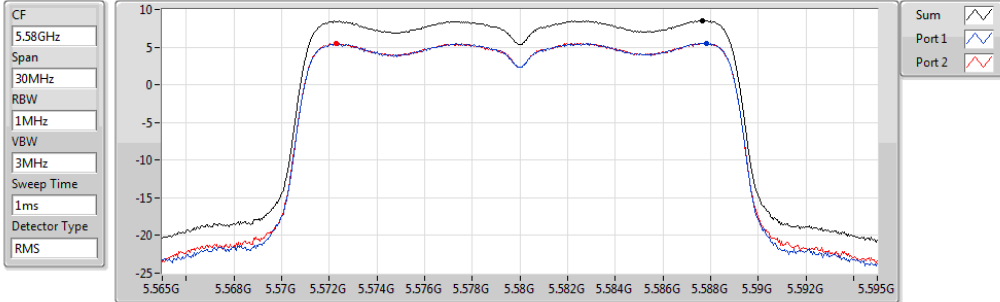


Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
4.49	4.49	1.83	1.19

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

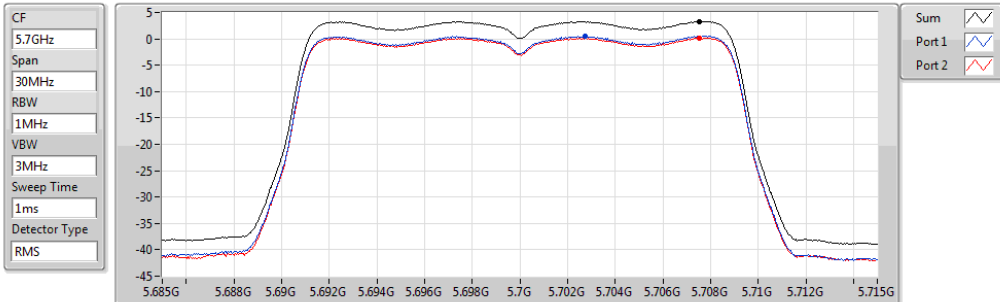


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
8.51	8.51	5.54	5.53

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

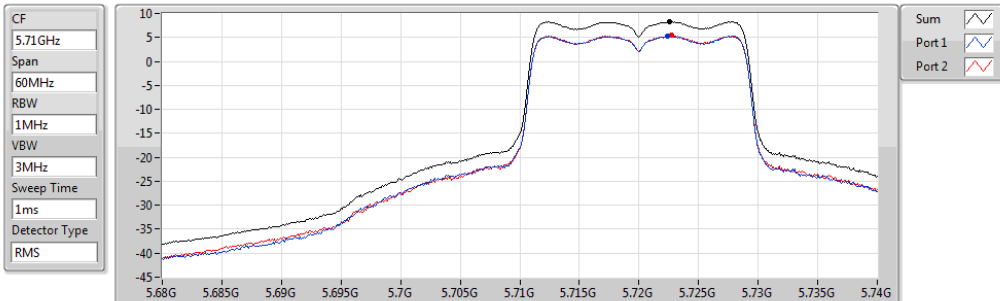


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
3.33	3.33	0.50	0.17

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

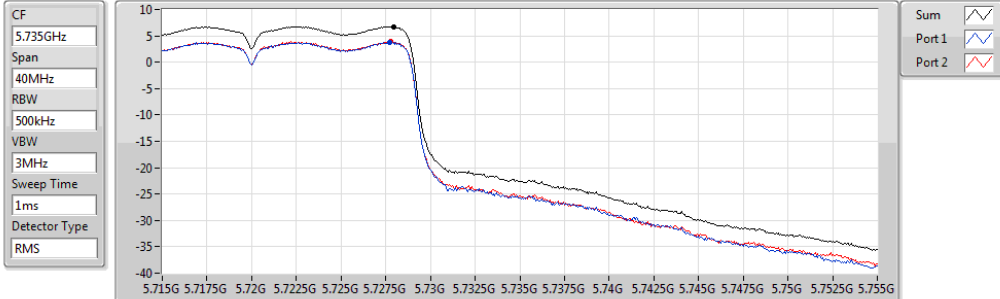


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
8.29	8.29	5.24	5.43

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

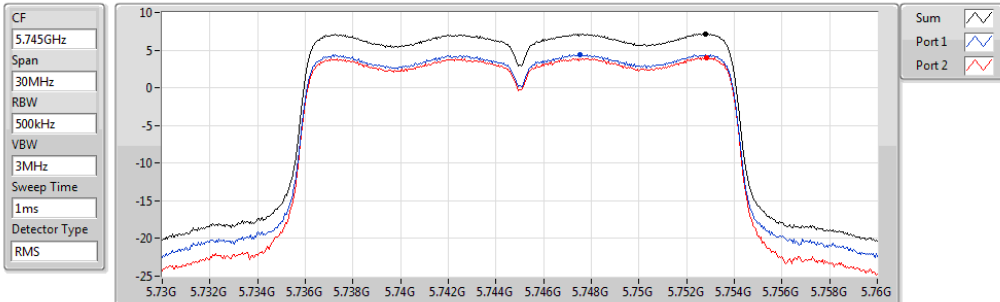


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.77	6.77	3.78	3.86

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

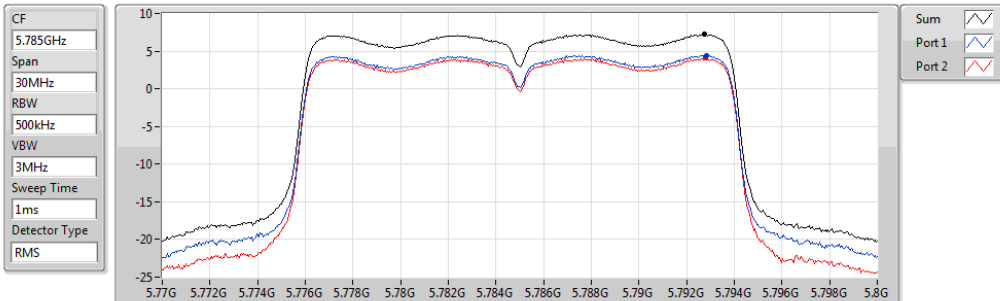


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.15	7.15	4.40	4.02

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

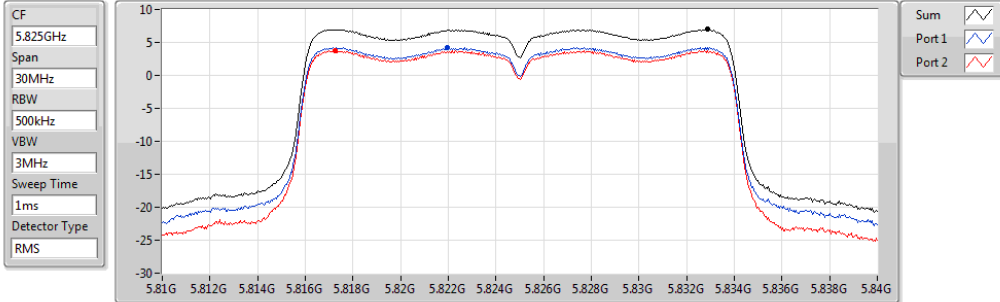


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.20	7.20	4.42	4.08

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

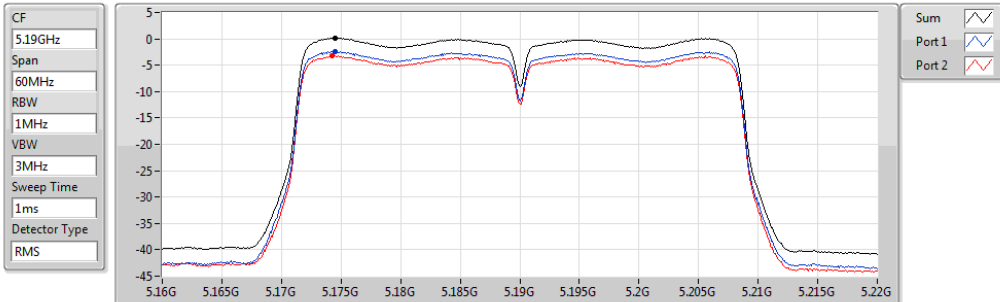


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.97	6.97	4.21	3.75

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

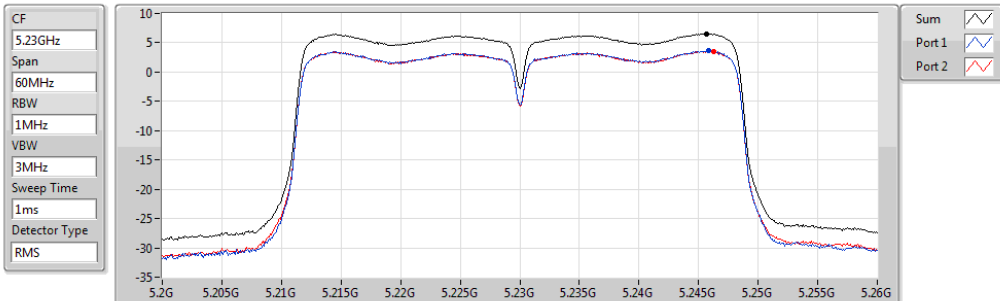


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.17	0.17	-2.43	-3.23

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

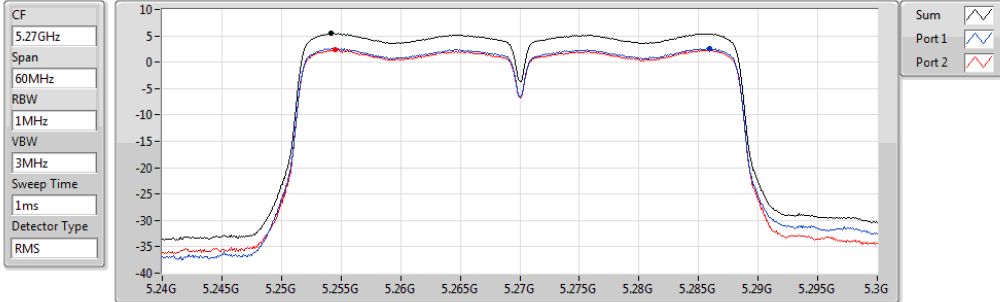


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.55	6.55	3.62	3.55

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

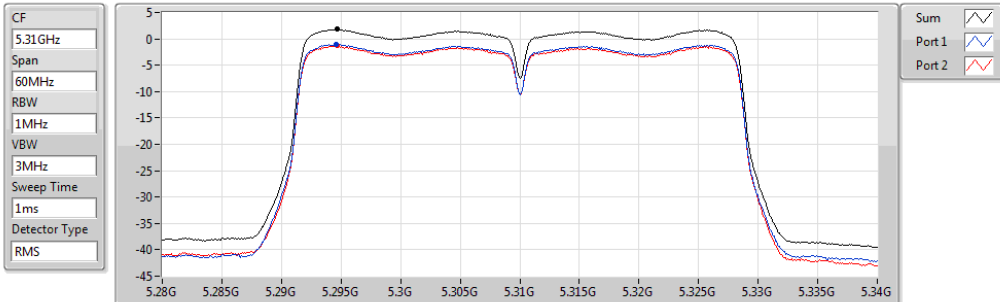


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.45	5.45	2.60	2.41

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

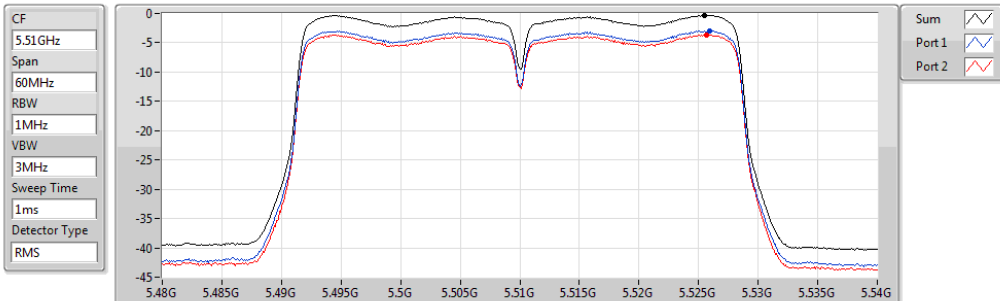


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.79	1.79	-1.11	-1.33

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

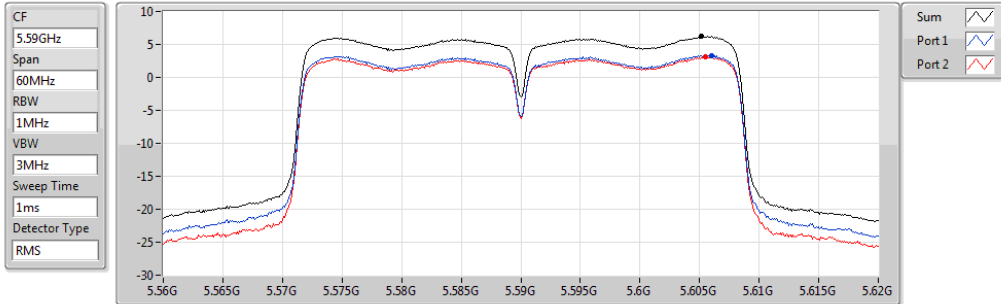


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.28	-0.28	-2.92	-3.62

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5590MHz

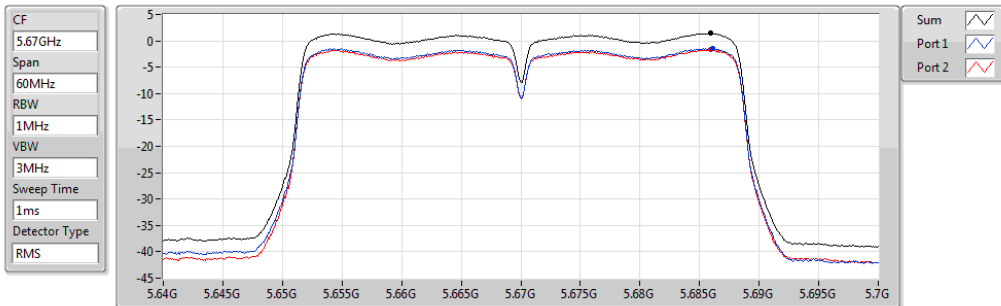


Sum	PD	Port 1	Port 2
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
6.19	6.19	3.35	3.15

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

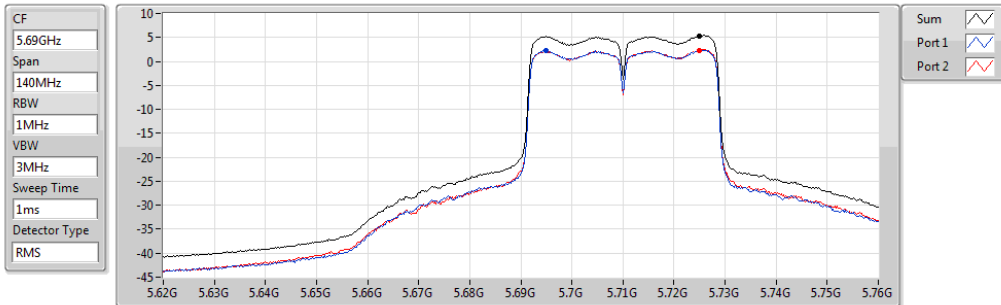


Sum	PD	Port 1	Port 2
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
1.41	1.41	-1.45	-1.69

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

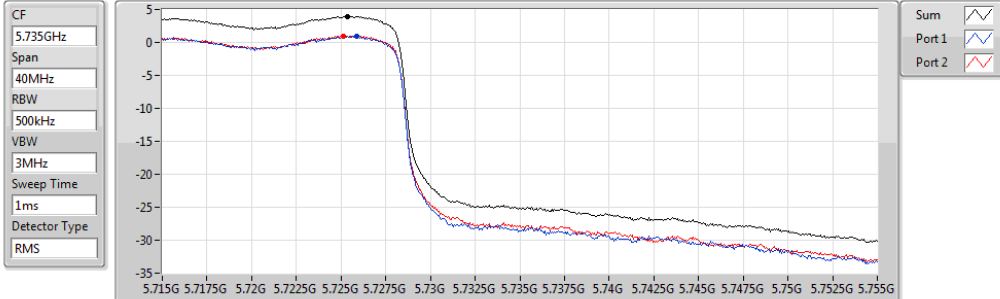


Sum	PD	Port 1	Port 2
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
5.26	5.26	2.19	2.36

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

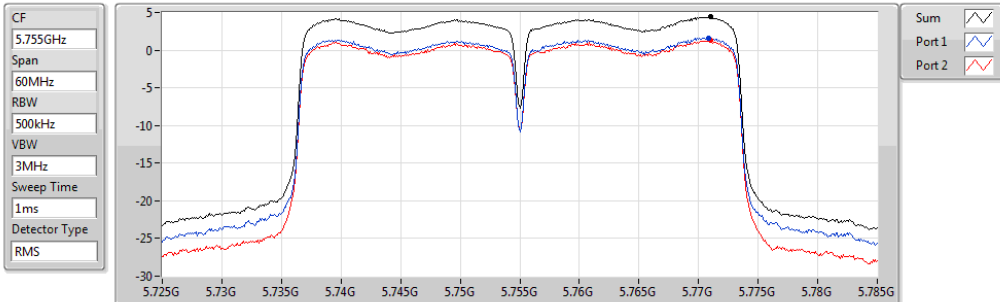


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.92	3.92	0.92	0.95

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

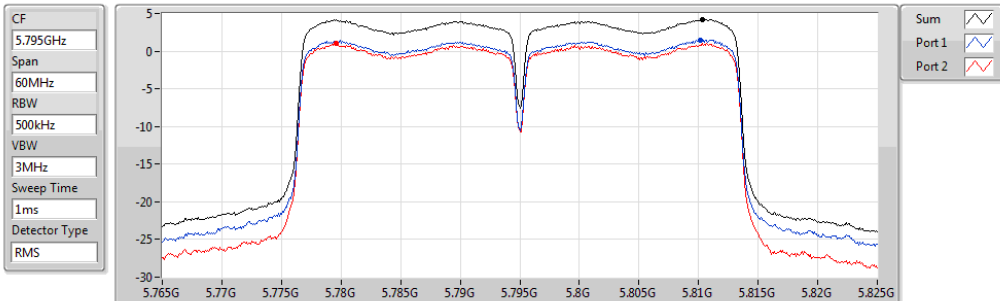


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.45	4.45	1.62	1.28

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

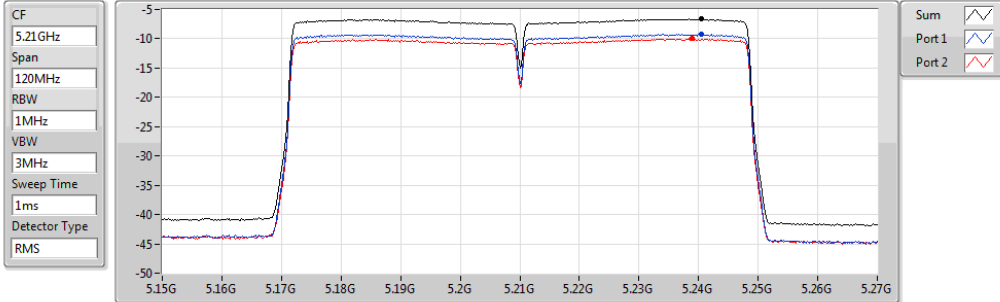


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.23	4.23	1.50	1.03

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

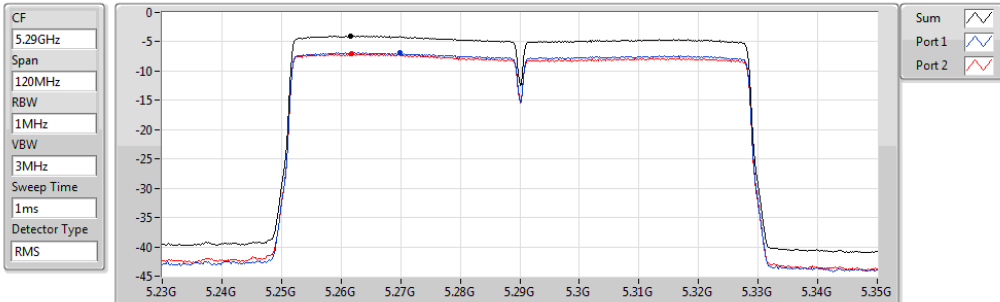


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.64	-6.64	-9.24	-9.99

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

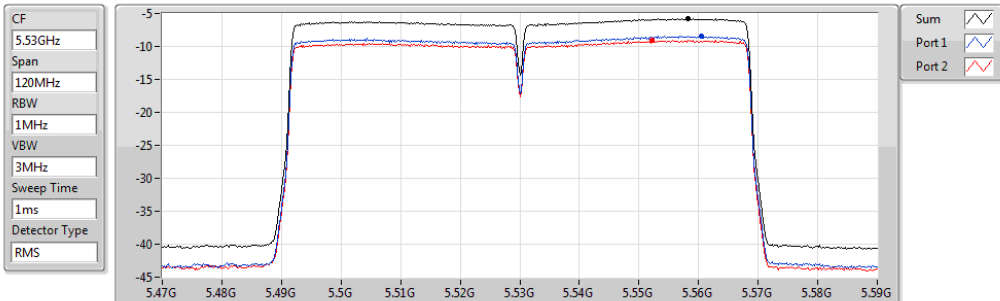


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.99	-3.99	-6.79	-7.07

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

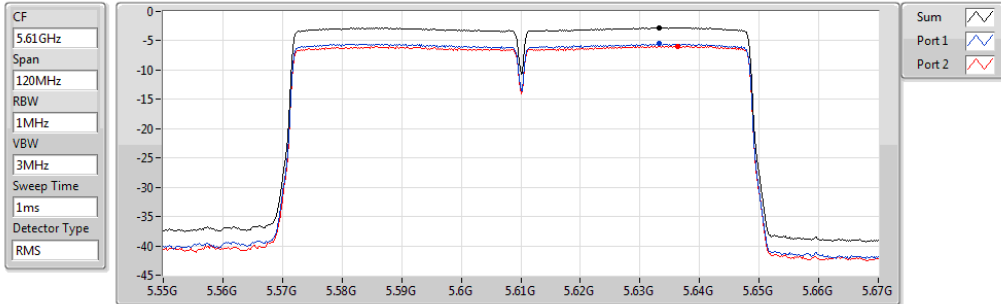


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.76	-5.76	-8.44	-9.03

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

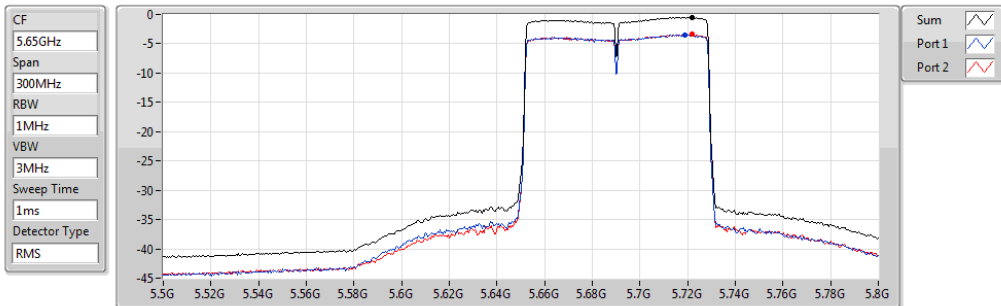


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.73	-2.73	-5.52	-5.96

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

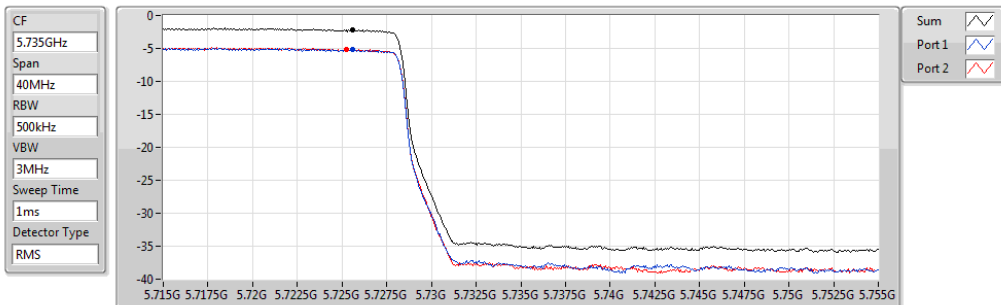


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.45	-0.45	-3.47	-3.39

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

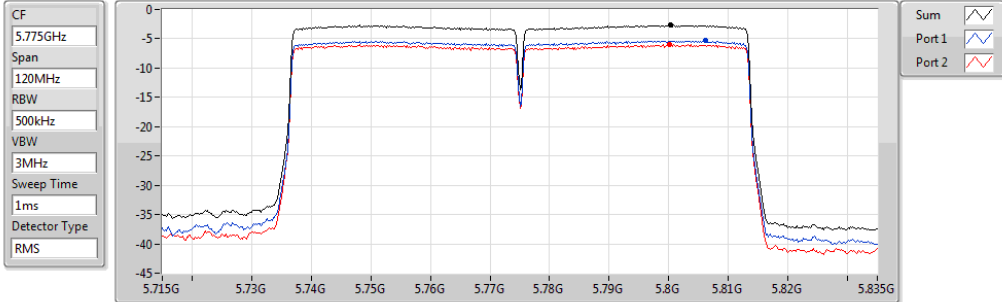


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.22	-2.22	-5.13	-5.14

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.69	-2.69	-5.29	-5.97

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge 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).

3.5.2 Test Procedures

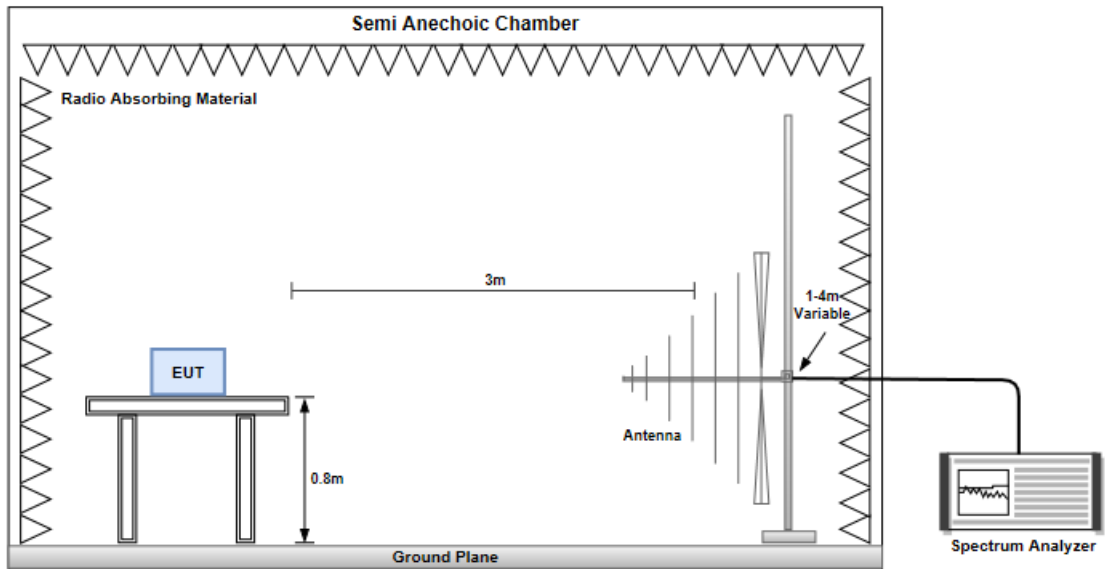
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

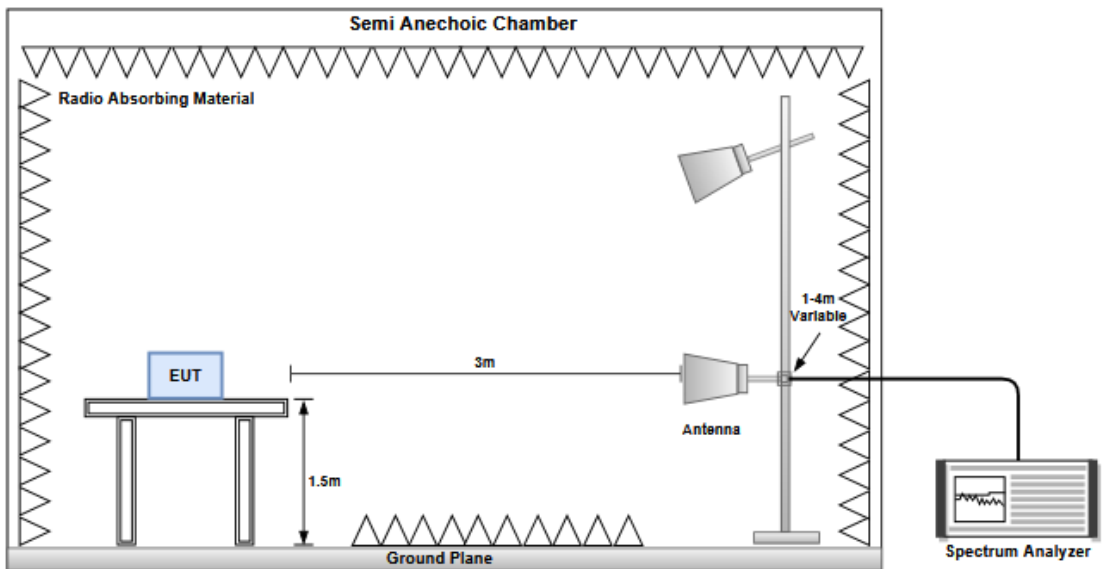
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

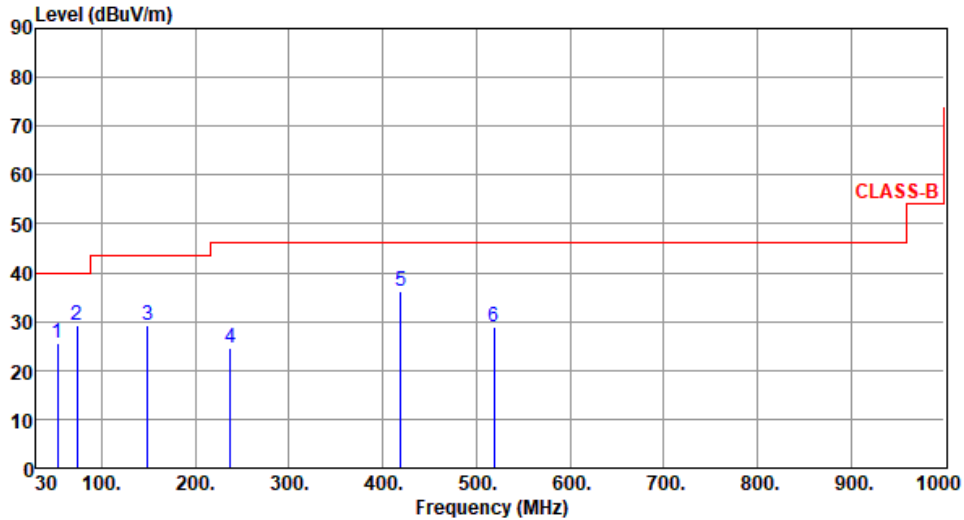


Configuration 1

3.5.1 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	53.28	25.70	40.00	-14.30	34.47	-8.77	Peak	---	---
2	73.65	29.15	40.00	-10.85	41.01	-11.86	Peak	---	---
3	149.31	29.29	43.50	-14.21	38.34	-9.05	Peak	---	---
4	237.58	24.66	46.00	-21.34	35.29	-10.63	Peak	---	---
5	418.97	36.06	46.00	-9.94	41.25	-5.19	Peak	---	---
6	518.88	28.73	46.00	-17.27	31.67	-2.94	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

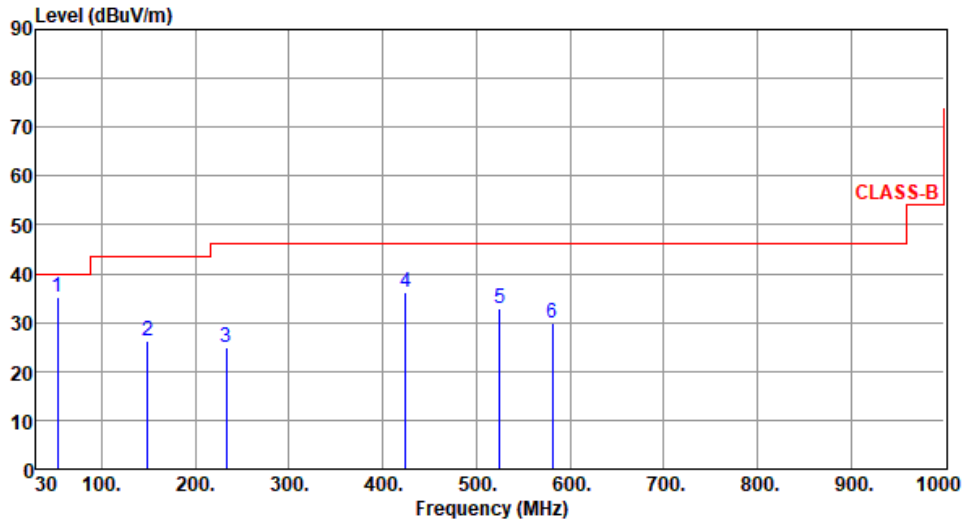
*Factor includes antenna factor , cable loss and amplifier gain

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	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	53.28	35.21	40.00	-4.79	43.98	-8.77	QP	100	149
2	149.31	26.31	43.50	-17.19	35.36	-9.05	Peak	---	---
3	232.73	24.88	46.00	-21.12	36.10	-11.22	Peak	---	---
4	424.79	36.23	46.00	-9.77	41.25	-5.02	Peak	---	---
5	524.70	32.92	46.00	-13.08	35.84	-2.92	Peak	---	---
6	580.96	29.92	46.00	-16.08	31.54	-1.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

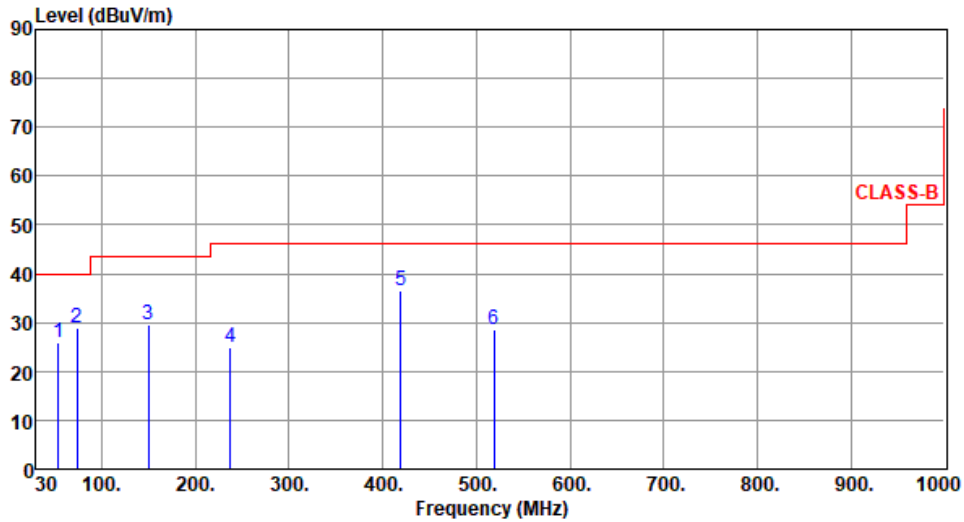
*Factor includes antenna factor , cable loss and amplifier gain

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	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	53.46	25.81	40.00	-14.19	34.64	-8.83	Peak	---	---
2	73.47	28.85	40.00	-11.15	40.62	-11.77	Peak	---	---
3	149.52	29.46	43.50	-14.04	38.47	-9.01	Peak	---	---
4	237.41	24.91	46.00	-21.09	35.56	-10.65	Peak	---	---
5	419.04	36.54	46.00	-9.46	41.73	-5.19	Peak	---	---
6	518.94	28.59	46.00	-17.41	31.53	-2.94	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

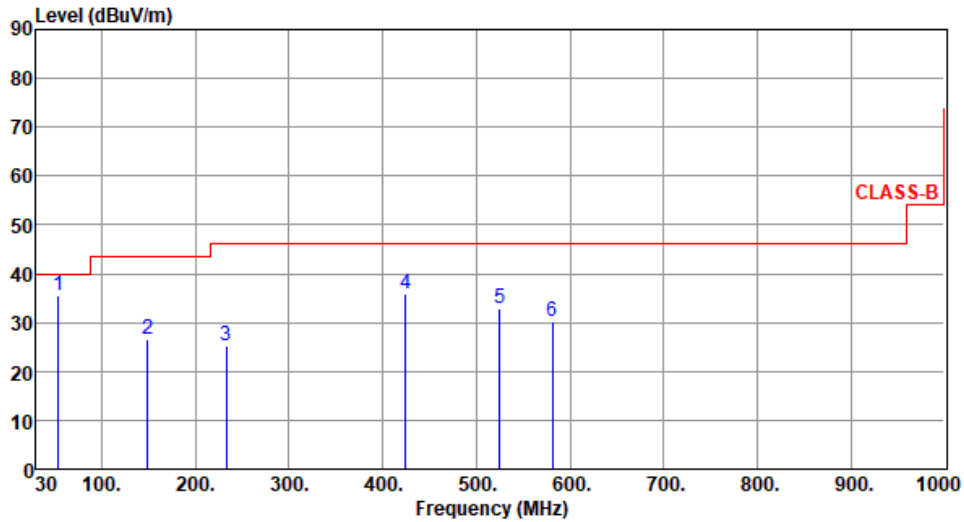
*Factor includes antenna factor , cable loss and amplifier gain

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	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	53.41	35.42	40.00	-4.58	44.23	-8.81	QP	100	151
2	149.39	26.42	43.50	-17.08	35.45	-9.03	Peak	---	---
3	232.84	25.11	46.00	-20.89	36.31	-11.20	Peak	---	---
4	424.61	36.02	46.00	-9.98	41.05	-5.03	Peak	---	---
5	524.56	32.81	46.00	-13.19	35.73	-2.92	Peak	---	---
6	581.22	30.16	46.00	-15.84	31.77	-1.61	Peak	---	---

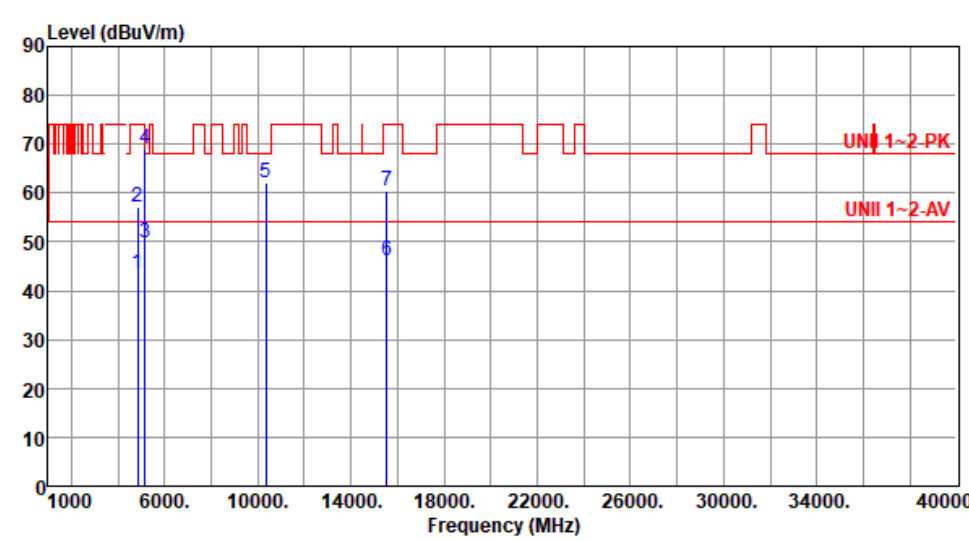
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

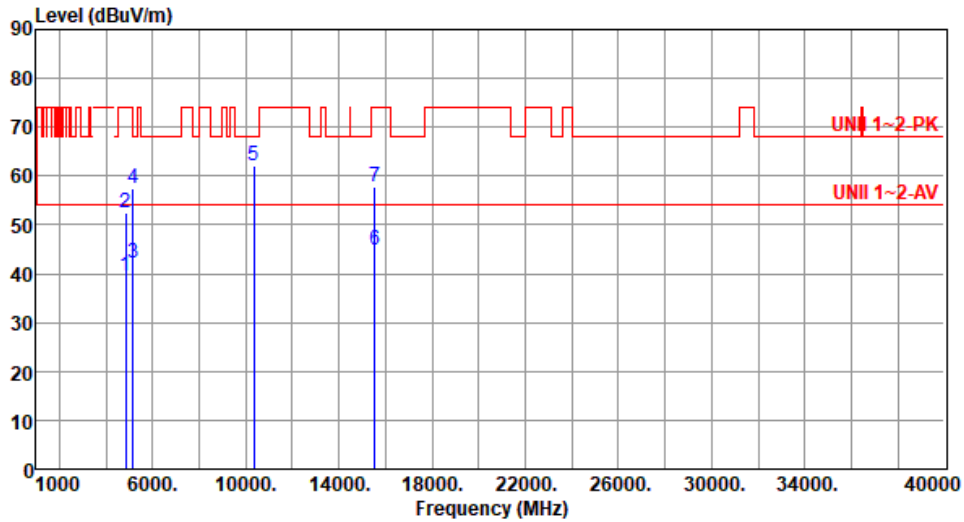
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.2 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Aska Huang Temperature(°C):22 Humidity(%):65									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	4855.00	43.40	54.00	-10.60	39.25	4.15	Average	124	202
2	4855.00	57.12	74.00	-16.88	52.97	4.15	Peak	124	202
3	5150.00	49.87	54.00	-4.13	44.86	5.01	Average	124	202
4	5150.00	68.97	74.00	-5.03	63.96	5.01	Peak	124	202
5	10360.00	61.96	68.20	-6.24	47.75	14.21	Peak	100	25
6	15540.00	46.24	54.00	-7.76	32.60	13.64	Average	249	51
7	15540.00	60.45	74.00	-13.55	46.81	13.64	Peak	249	51
<p>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).</p>									

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

Test By :Aska Huang Temperature(°C):22 Humidity(%):65

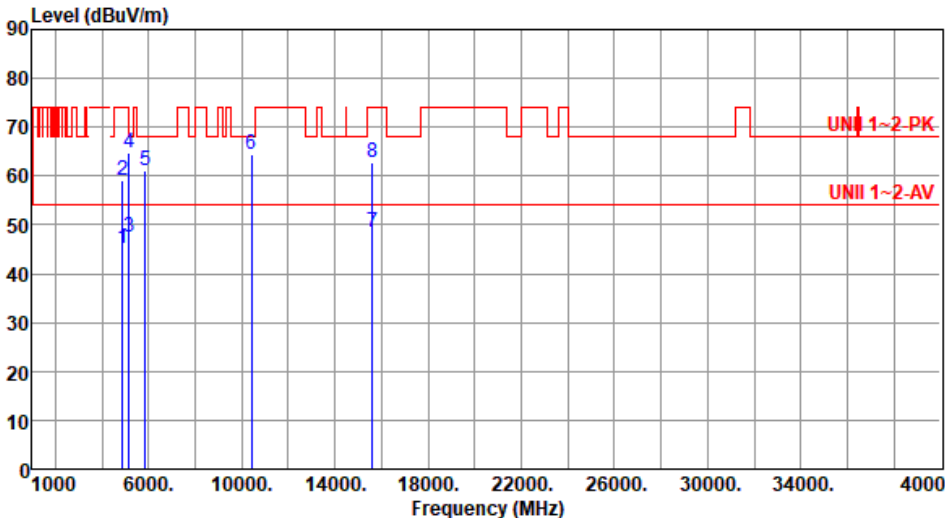


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4855.00	39.44	54.00	-14.56	35.29	4.15	Average	100	330
2	4855.00	52.51	74.00	-21.49	48.36	4.15	Peak	100	330
3	5150.00	42.14	54.00	-11.86	37.13	5.01	Average	100	330
4	5150.00	57.60	74.00	-16.40	52.59	5.01	Peak	100	330
5	10360.00	62.21	68.20	-5.99	48.00	14.21	Peak	366	22
6	15540.00	44.73	54.00	-9.27	31.09	13.64	Average	332	250
7	15540.00	57.81	74.00	-16.19	44.17	13.64	Peak	332	250

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

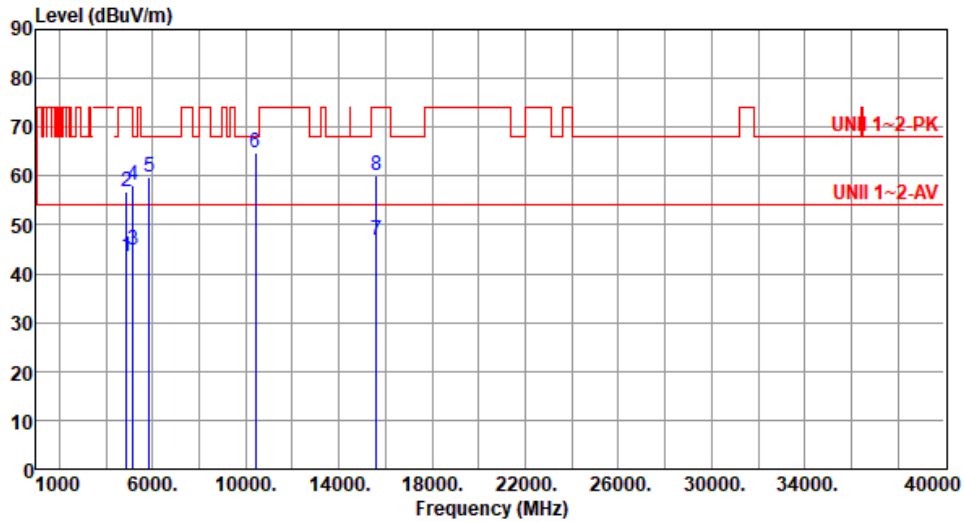
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5200						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):24 Humidity(%):62									
									
	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	4875.00	45.30	54.00	-8.70	41.17	4.13	Average	139	203
2	4875.00	59.06	74.00	-14.94	54.93	4.13	Peak	139	203
3	5150.00	47.59	54.00	-6.41	42.58	5.01	Average	139	203
4	5150.00	64.90	74.00	-9.10	59.89	5.01	Peak	139	203
5	5850.00	61.26	68.20	-6.94	55.61	5.65	Peak	134	203
6	10400.00	64.31	68.20	-3.89	49.98	14.33	Peak	100	19
7	15600.00	48.59	54.00	-5.41	35.26	13.33	Average	244	43
8	15600.00	62.66	74.00	-11.34	49.33	13.33	Peak	244	43
<p>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).</p>									

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

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	4875.00	43.54	54.00	-10.46	39.41	4.13	Average	100	335
2	4875.00	56.87	74.00	-17.13	52.74	4.13	Peak	100	335
3	5150.00	44.98	54.00	-9.02	39.97	5.01	Average	100	335
4	5150.00	58.06	74.00	-15.94	53.05	5.01	Peak	100	335
5	5850.00	59.74	68.20	-8.46	54.09	5.65	Peak	100	335
6	10400.00	64.91	68.20	-3.29	50.58	14.33	Peak	272	26
7	15600.00	46.90	54.00	-7.10	33.57	13.33	Average	323	246
8	15600.00	60.11	74.00	-13.89	46.78	13.33	Peak	323	246

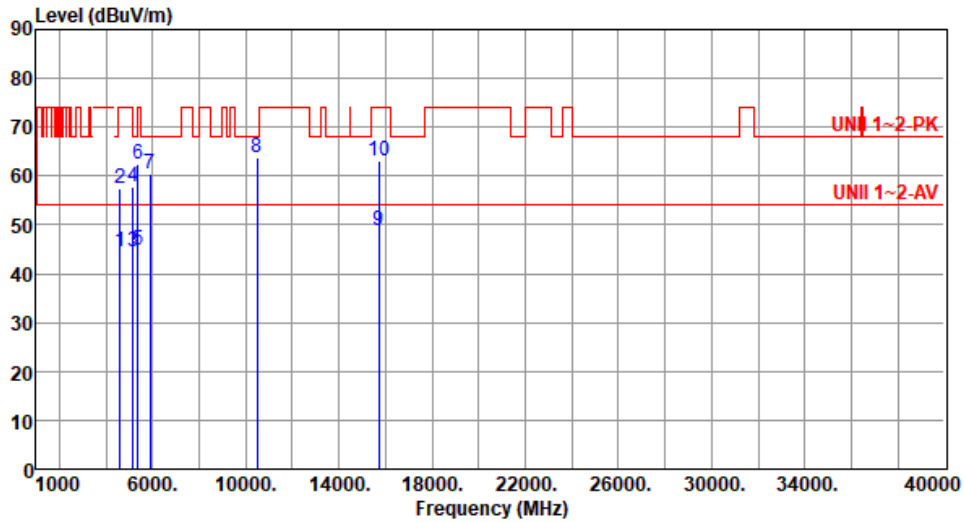
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4585.00	44.47	54.00	-9.53	41.16	3.31	Average	138	204
2	4585.00	57.61	74.00	-16.39	54.30	3.31	Peak	138	204
3	5150.00	44.43	54.00	-9.57	39.42	5.01	Average	138	204
4	5150.00	57.67	74.00	-16.33	52.66	5.01	Peak	138	204
5	5350.00	44.79	54.00	-9.21	40.37	4.42	Average	138	204
6	5350.00	62.34	74.00	-11.66	57.92	4.42	Peak	138	204
7	5895.00	60.42	68.20	-7.78	54.77	5.65	Peak	138	210
8	10480.00	63.62	68.20	-4.58	49.16	14.46	Peak	100	23
9	15720.00	48.78	54.00	-5.22	35.36	13.42	Average	251	45
10	15720.00	63.20	74.00	-10.80	49.78	13.42	Peak	251	45

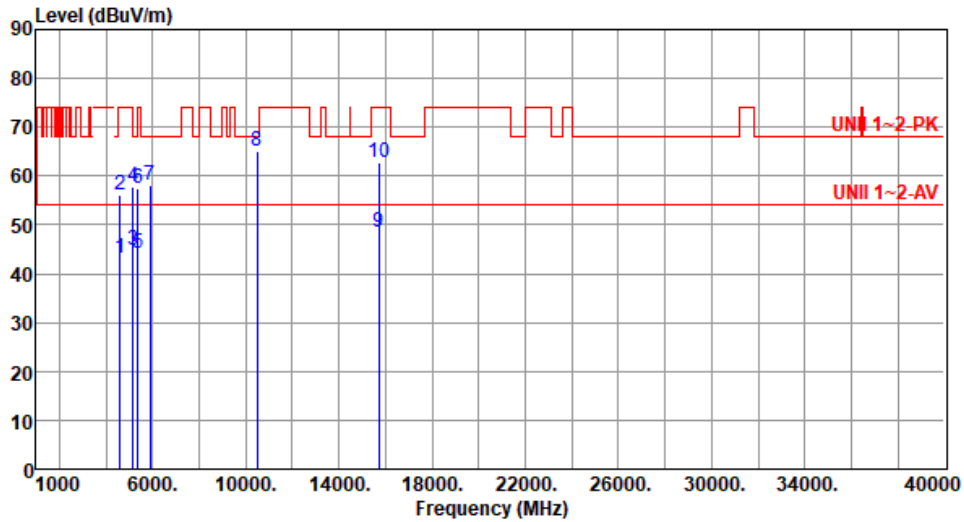
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4585.00	43.14	54.00	-10.86	39.83	3.31	Average	100	339
2	4585.00	56.18	74.00	-17.82	52.87	3.31	Peak	100	339
3	5150.00	44.87	54.00	-9.13	39.86	5.01	Average	100	339
4	5150.00	57.73	74.00	-16.27	52.72	5.01	Peak	100	339
5	5350.00	44.16	54.00	-9.84	39.74	4.42	Average	100	339
6	5350.00	57.32	74.00	-16.68	52.90	4.42	Peak	100	339
7	5895.00	58.19	68.20	-10.01	52.54	5.65	Peak	100	339
8	10480.00	65.02	68.20	-3.18	50.56	14.46	Peak	365	26
9	15720.00	48.44	54.00	-5.56	35.02	13.42	Average	369	257
10	15720.00	62.84	74.00	-11.16	49.42	13.42	Peak	369	257

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

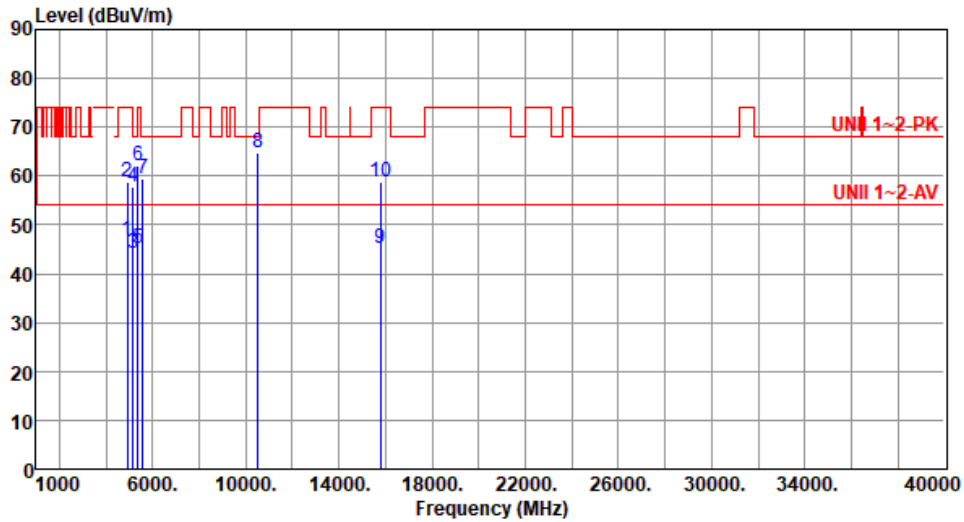
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62

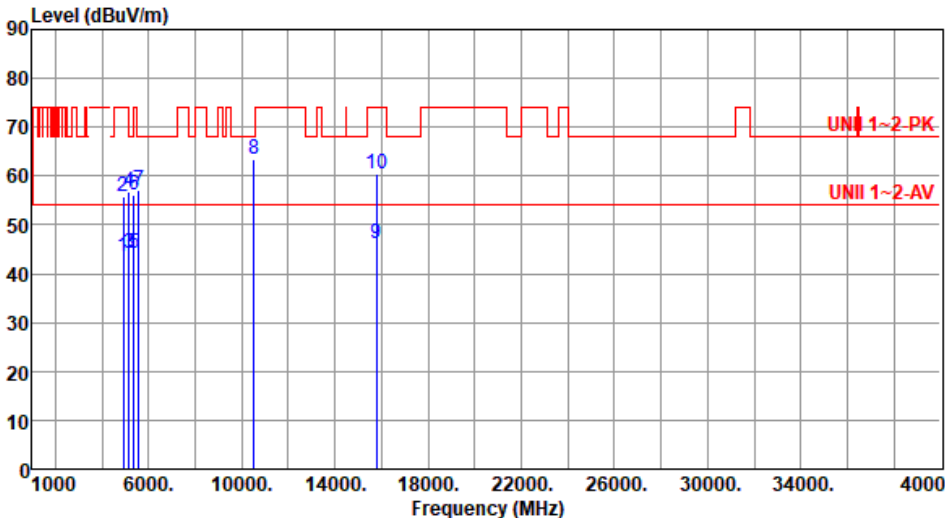


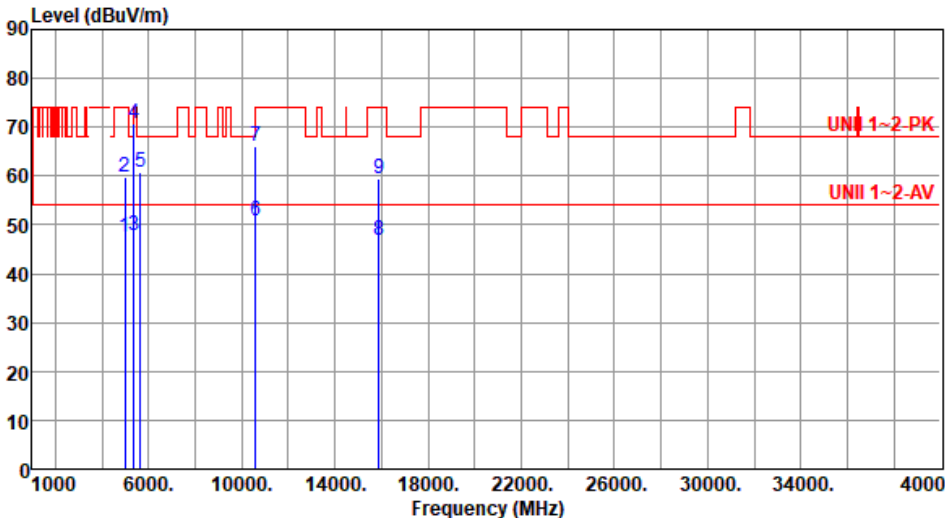
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4930.00	46.70	54.00	-7.30	42.65	4.05	Average	141	204
2	4930.00	58.79	74.00	-15.21	54.74	4.05	Peak	141	204
3	5150.00	44.23	54.00	-9.77	39.22	5.01	Average	149	204
4	5150.00	57.63	74.00	-16.37	52.62	5.01	Peak	149	204
5	5350.00	45.03	54.00	-8.97	40.61	4.42	Average	149	204
6	5350.00	62.00	74.00	-12.00	57.58	4.42	Peak	149	204
7	5590.00	59.29	68.20	-8.91	54.60	4.69	Peak	149	204
8	10520.00	64.92	68.20	-3.28	50.45	14.47	Peak	322	46
9	15780.00	45.15	54.00	-8.85	31.67	13.48	Average	229	41
10	15780.00	58.73	74.00	-15.27	45.25	13.48	Peak	229	41

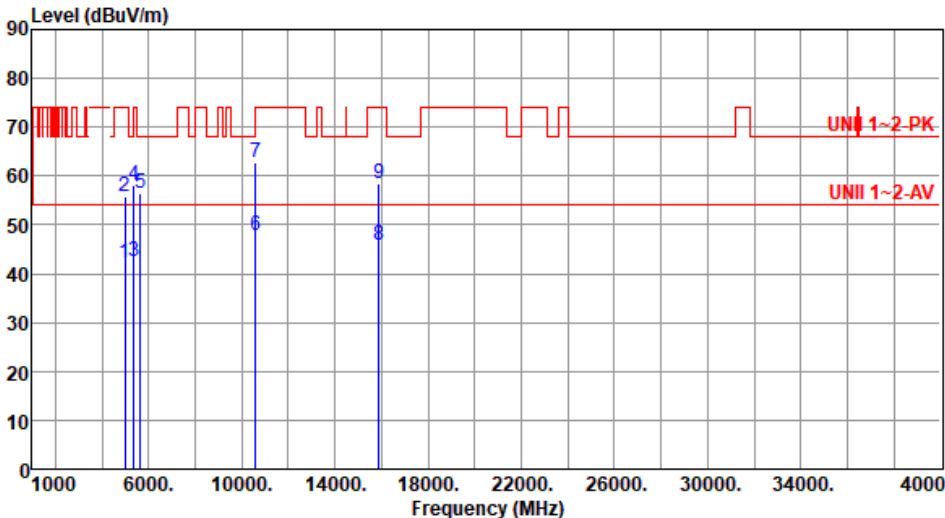
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

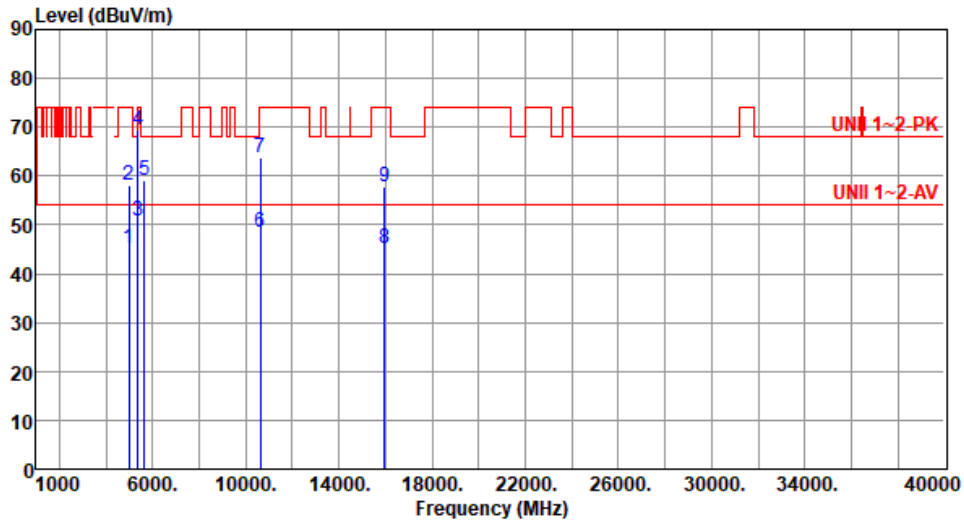
Modulation	11a	Test Freq. (MHz)	5260						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):62									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	4930.00	43.62	54.00	-10.38	39.57	4.05	Average	100	338
2	4930.00	55.74	74.00	-18.26	51.69	4.05	Peak	100	338
3	5150.00	44.21	54.00	-9.79	39.20	5.01	Average	100	338
4	5150.00	56.81	74.00	-17.19	51.80	5.01	Peak	100	338
5	5350.00	44.11	54.00	-9.89	39.69	4.42	Average	100	338
6	5350.00	56.18	74.00	-17.82	51.76	4.42	Peak	100	338
7	5590.00	57.07	68.20	-11.13	52.38	4.69	Peak	100	338
8	10520.00	63.39	68.20	-4.81	48.92	14.47	Peak	362	24
9	15780.00	46.31	54.00	-7.69	32.83	13.48	Average	265	24
10	15780.00	60.45	74.00	-13.55	46.97	13.48	Peak	265	24
<p>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).</p>									

Modulation	11a	Test Freq. (MHz)	5300						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):24 Humidity(%):62									
									
	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	4970.00	47.36	54.00	-6.64	43.32	4.04	Average	145	197
2	4970.00	59.81	74.00	-14.19	55.77	4.04	Peak	145	197
3	5350.00	47.79	54.00	-6.21	43.37	4.42	Average	151	188
4	5350.00	70.70	74.00	-3.30	66.28	4.42	Peak	151	188
5	5630.00	60.67	68.20	-7.53	55.92	4.75	Peak	151	188
6	10600.00	50.94	54.00	-3.06	36.59	14.35	Average	331	49
7	10600.00	66.00	74.00	-8.00	51.65	14.35	Peak	331	49
8	15900.00	46.75	54.00	-7.25	33.18	13.57	Average	251	65
9	15900.00	59.60	74.00	-14.40	46.03	13.57	Peak	251	65
<p>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).</p>									

Modulation	11a	Test Freq. (MHz)	5300						
Polarization	Vertical								
Test By : Roger Lu		Temperature(°C): 24	Humidity(%): 62						
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	4970.00	42.04	54.00	-11.96	38.00	4.04	Average	103	172
2	4970.00	55.68	74.00	-18.32	51.64	4.04	Peak	103	172
3	5350.00	42.44	54.00	-11.56	38.02	4.42	Average	103	172
4	5350.00	58.04	74.00	-15.96	53.62	4.42	Peak	103	172
5	5630.00	56.60	68.20	-11.60	51.85	4.75	Peak	103	172
6	10600.00	47.73	54.00	-6.27	33.38	14.35	Average	382	27
7	10600.00	62.63	74.00	-11.37	48.28	14.35	Peak	382	27
8	15900.00	45.83	54.00	-8.17	32.26	13.57	Average	228	292
9	15900.00	58.55	74.00	-15.45	44.98	13.57	Peak	228	292
<p>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).</p>									

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

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4990.00	45.27	54.00	-8.73	41.21	4.06	Average	144	203
2	4990.00	57.98	74.00	-16.02	53.92	4.06	Peak	144	203
3	5350.00	50.69	54.00	-3.31	46.27	4.42	Average	142	202
4	5350.00	69.40	74.00	-4.60	64.98	4.42	Peak	142	202
5	5655.00	58.96	68.20	-9.24	54.13	4.83	Peak	131	198
6	10640.00	48.65	54.00	-5.35	34.28	14.37	Average	335	51
7	10640.00	63.86	74.00	-10.14	49.49	14.37	Peak	335	51
8	15960.00	45.14	54.00	-8.86	31.46	13.68	Average	248	69
9	15960.00	57.69	74.00	-16.31	44.01	13.68	Peak	248	69

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

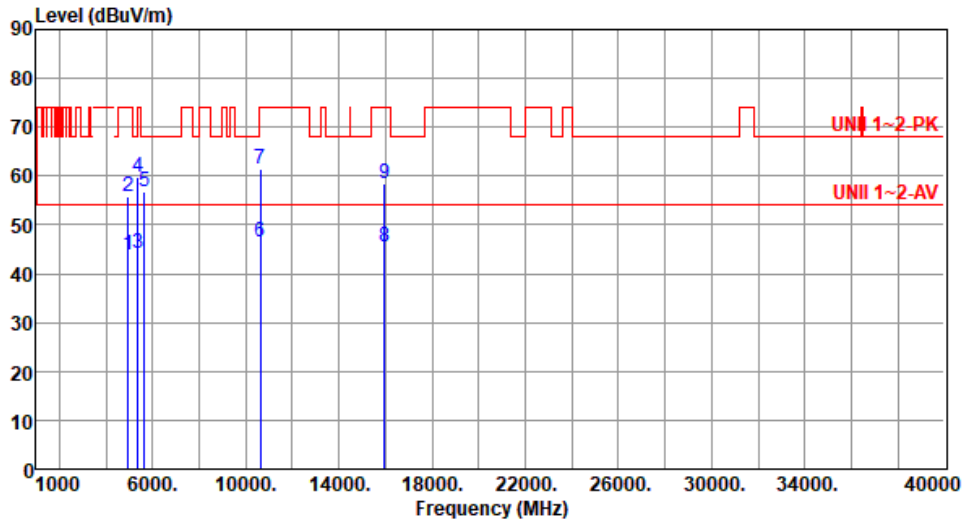
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5320
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4960.00	43.73	54.00	-10.27	39.70	4.03	Average	100	328
2	4960.00	55.89	74.00	-18.11	51.86	4.03	Peak	100	328
3	5350.00	44.09	54.00	-9.91	39.67	4.42	Average	100	328
4	5350.00	59.76	74.00	-14.24	55.34	4.42	Peak	100	328
5	5655.00	56.83	68.20	-11.37	52.00	4.83	Peak	100	328
6	10640.00	46.52	54.00	-7.48	32.15	14.37	Average	381	33
7	10640.00	61.45	74.00	-12.55	47.08	14.37	Peak	381	33
8	15960.00	45.42	54.00	-8.58	31.74	13.68	Average	226	295
9	15960.00	58.31	74.00	-15.69	44.63	13.68	Peak	226	295

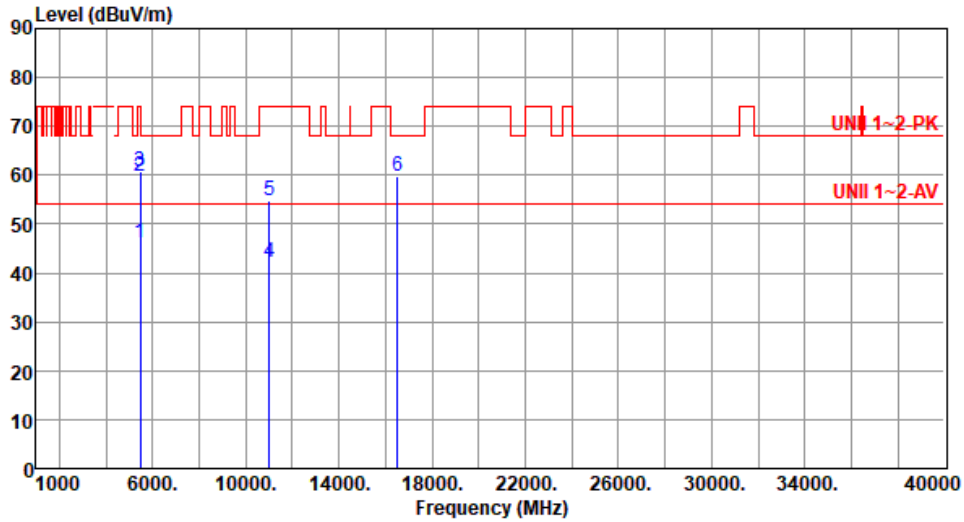
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Aska Huang Temperature(°C):22 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	5460.00	46.00	54.00	-8.00	41.33	4.67	Average	135	190
2	5460.00	59.68	74.00	-14.32	55.01	4.67	Peak	135	190
3	5470.00	60.74	68.20	-7.46	56.04	4.70	Peak	135	190
4	11000.00	42.14	54.00	-11.86	27.49	14.65	Average	100	19
5	11000.00	54.81	74.00	-19.19	40.16	14.65	Peak	100	19
6	16500.00	59.86	68.20	-8.34	43.52	16.34	Peak	100	35

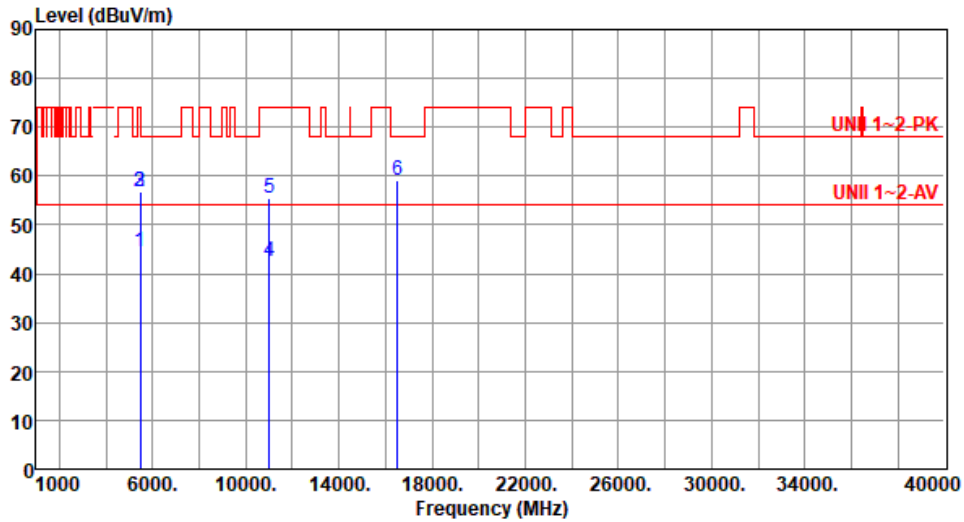
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Aska Huang Temperature(°C):22 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	5460.00	44.40	54.00	-9.60	39.73	4.67	Average	100	340
2	5460.00	56.93	74.00	-17.07	52.26	4.67	Peak	100	340
3	5470.00	56.88	68.20	-11.32	52.18	4.70	Peak	100	340
4	11000.00	42.54	54.00	-11.46	27.89	14.65	Average	100	26
5	11000.00	55.58	74.00	-18.42	40.93	14.65	Peak	100	26
6	16500.00	59.25	68.20	-8.95	42.91	16.34	Peak	100	55

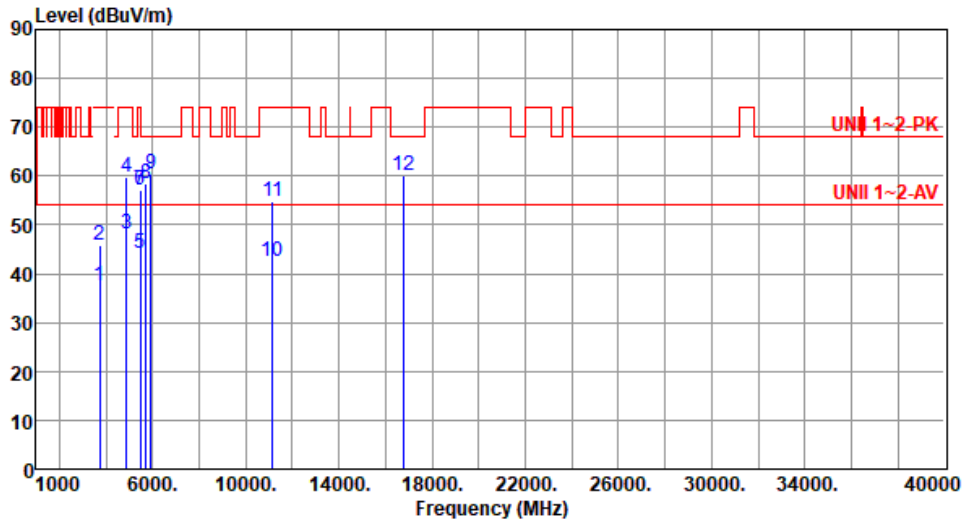
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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(°C):24 Humidity(%):62



	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	3720.00	37.50	54.00	-16.50	36.74	0.76	Average	159	333
2	3720.00	45.99	74.00	-28.01	45.23	0.76	Peak	159	333
3	4880.00	48.07	54.00	-5.93	43.95	4.12	Average	157	199
4	4880.00	59.81	74.00	-14.19	55.69	4.12	Peak	157	199
5	5460.00	44.19	54.00	-9.81	39.52	4.67	Average	136	188
6	5460.00	57.21	74.00	-16.79	52.54	4.67	Peak	136	188
7	5470.00	57.26	68.20	-10.94	52.56	4.70	Peak	136	188
8	5725.00	58.61	68.20	-9.59	53.44	5.17	Peak	136	188
9	5930.00	60.53	68.20	-7.67	54.92	5.61	Peak	125	180
10	11160.00	42.36	54.00	-11.64	28.39	13.97	Average	100	20
11	11160.00	54.95	74.00	-19.05	40.98	13.97	Peak	100	20
12	16740.00	60.00	68.20	-8.20	42.83	17.17	Peak	100	349

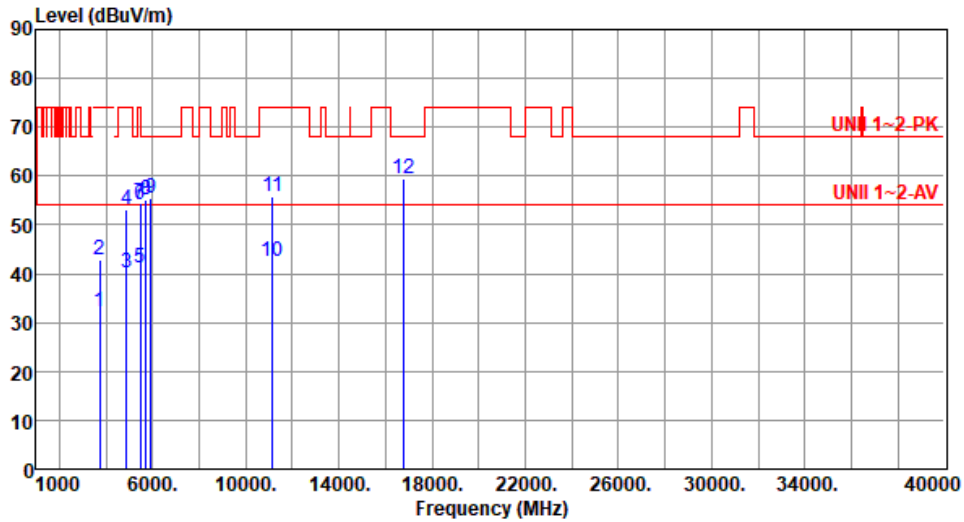
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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(°C):24 Humidity(%):62



	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	3720.00	32.30	54.00	-21.70	31.54	0.76	Average	100	118
2	3720.00	42.78	74.00	-31.22	42.02	0.76	Peak	100	118
3	4880.00	40.30	54.00	-13.70	36.18	4.12	Average	106	154
4	4880.00	53.23	74.00	-20.77	49.11	4.12	Peak	106	154
5	5460.00	41.22	54.00	-12.78	36.55	4.67	Average	106	154
6	5460.00	54.28	74.00	-19.72	49.61	4.67	Peak	106	154
7	5470.00	54.49	68.20	-13.71	49.79	4.70	Peak	106	154
8	5725.00	55.04	68.20	-13.16	49.87	5.17	Peak	106	154
9	5930.00	55.54	68.20	-12.66	49.93	5.61	Peak	106	154
10	11160.00	42.64	54.00	-11.36	28.67	13.97	Average	100	17
11	11160.00	55.66	74.00	-18.34	41.69	13.97	Peak	100	17
12	16740.00	59.41	68.20	-8.79	42.24	17.17	Peak	100	60

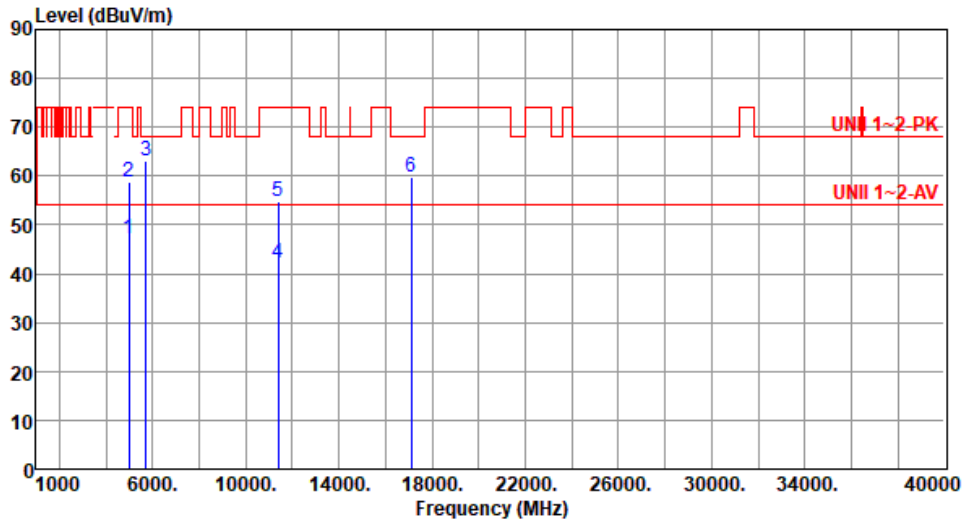
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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)	5700
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4990.00	47.19	54.00	-6.81	43.13	4.06	Average	131	198
2	4990.00	58.62	74.00	-15.38	54.56	4.06	Peak	131	198
3	5725.00	63.18	68.20	-5.02	58.01	5.17	Peak	146	185
4	11400.00	42.15	54.00	-11.85	28.01	14.14	Average	100	39
5	11400.00	54.68	74.00	-19.32	40.54	14.14	Peak	100	39
6	17100.00	59.81	68.20	-8.39	42.39	17.42	Peak	100	68

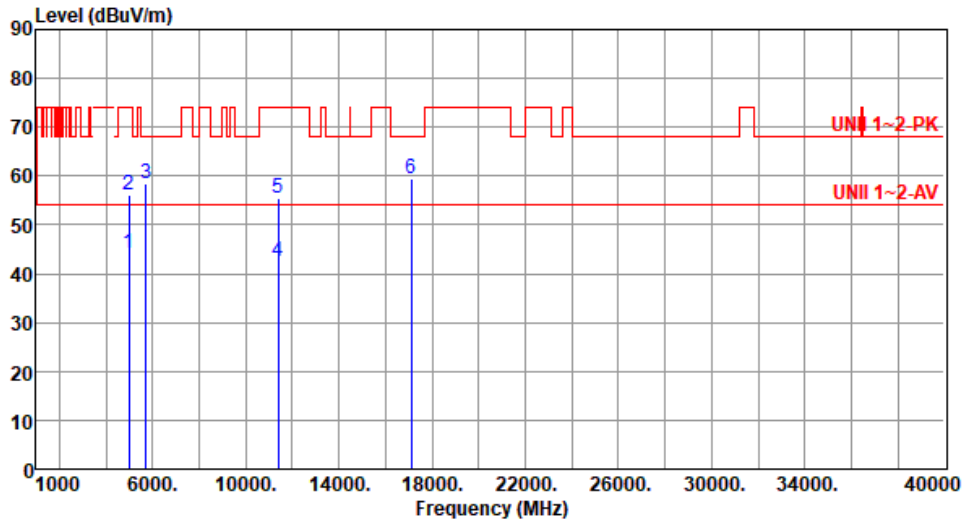
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):24 Humidity(%):62



	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	4990.00	44.06	54.00	-9.94	40.00	4.06	Average	100	345
2	4990.00	56.23	74.00	-17.77	52.17	4.06	Peak	100	345
3	5725.00	58.32	68.20	-9.88	53.15	5.17	Peak	100	345
4	11400.00	42.35	54.00	-11.65	28.21	14.14	Average	100	41
5	11400.00	55.38	74.00	-18.62	41.24	14.14	Peak	100	41
6	17100.00	59.34	68.20	-8.86	41.92	17.42	Peak	100	26

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

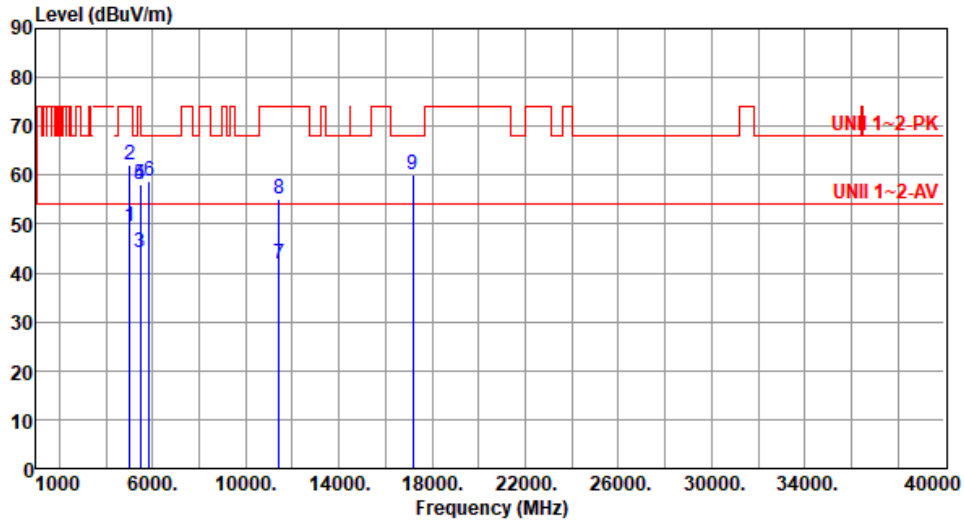
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	5005.00	49.42	54.00	-4.58	45.35	4.07	Average	123	185
2	5005.00	62.19	74.00	-11.81	58.12	4.07	Peak	123	185
3	5460.00	44.12	54.00	-9.88	39.45	4.67	Average	131	205
4	5460.00	57.96	74.00	-16.04	53.29	4.67	Peak	131	205
5	5470.00	58.11	68.20	-10.09	53.41	4.70	Peak	131	205
6	5850.00	58.88	68.20	-9.32	53.23	5.65	Peak	131	205
7	11440.00	41.96	54.00	-12.04	27.70	14.26	Average	100	25
8	11440.00	55.20	74.00	-18.80	40.94	14.26	Peak	100	25
9	17160.00	60.04	68.20	-8.16	42.62	17.42	Peak	100	29

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

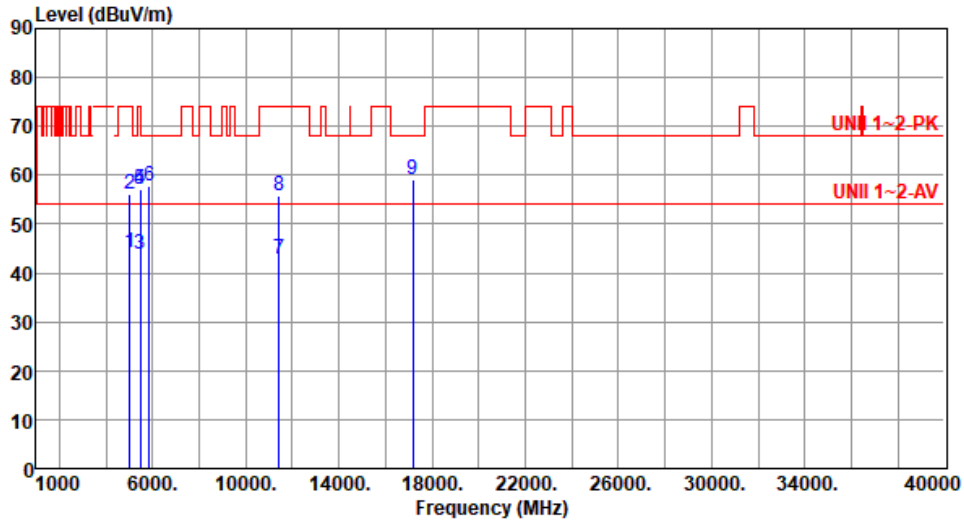
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	5005.00	44.06	54.00	-9.94	39.99	4.07	Average	100	339
2	5005.00	56.19	74.00	-17.81	52.12	4.07	Peak	100	339
3	5460.00	44.00	54.00	-10.00	39.33	4.67	Average	100	339
4	5460.00	56.99	74.00	-17.01	52.32	4.67	Peak	100	339
5	5470.00	57.02	68.20	-11.18	52.32	4.70	Peak	100	339
6	5850.00	57.91	68.20	-10.29	52.26	5.65	Peak	100	339
7	11440.00	42.81	54.00	-11.19	28.55	14.26	Average	100	14
8	11440.00	55.92	74.00	-18.08	41.66	14.26	Peak	100	14
9	17160.00	59.25	68.20	-8.95	41.83	17.42	Peak	100	51

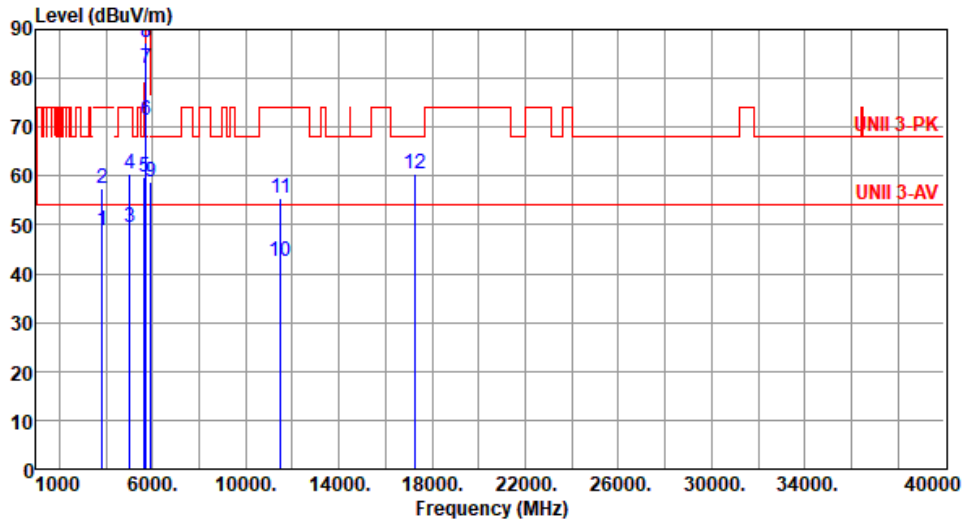
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):24 Humidity(%):62

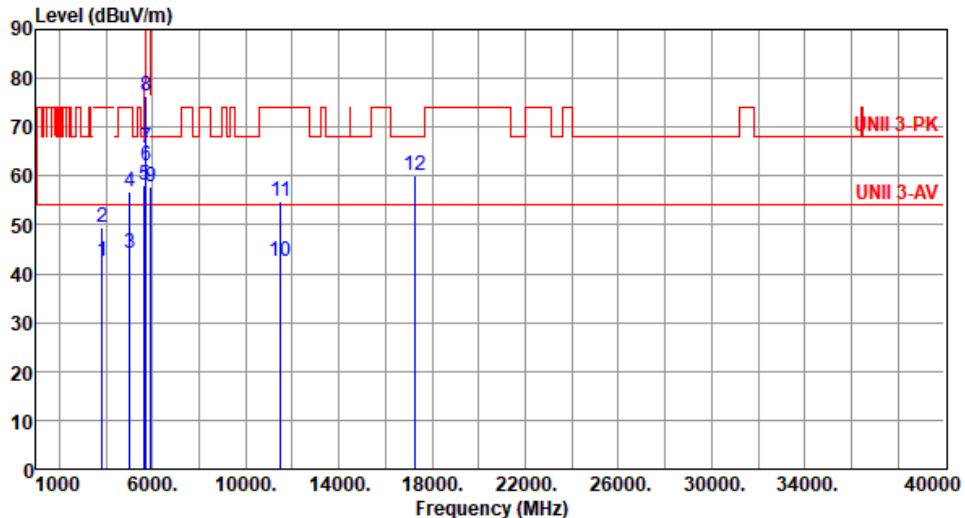


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3830.00	48.69	54.00	-5.31	47.63	1.06	Average	250	214
2	3830.00	57.30	74.00	-16.70	56.24	1.06	Peak	250	214
3	5027.00	49.33	54.00	-4.67	45.21	4.12	Average	138	202
4	5027.00	60.34	74.00	-13.66	56.22	4.12	Peak	138	202
5	5650.00	59.63	68.20	-8.57	54.82	4.81	Peak	123	189
6	5700.00	71.39	105.20	-33.81	66.37	5.02	Peak	123	189
7	5720.00	82.18	110.80	-28.62	77.04	5.14	Peak	123	189
8	5725.00	87.43	122.20	-34.77	82.26	5.17	Peak	123	189
9	5925.00	58.86	68.20	-9.34	53.25	5.61	Peak	123	189
10	11490.00	42.39	54.00	-11.61	28.00	14.39	Average	100	18
11	11490.00	55.46	74.00	-18.54	41.07	14.39	Peak	100	18
12	17235.00	60.46	68.20	-7.74	43.00	17.46	Peak	100	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

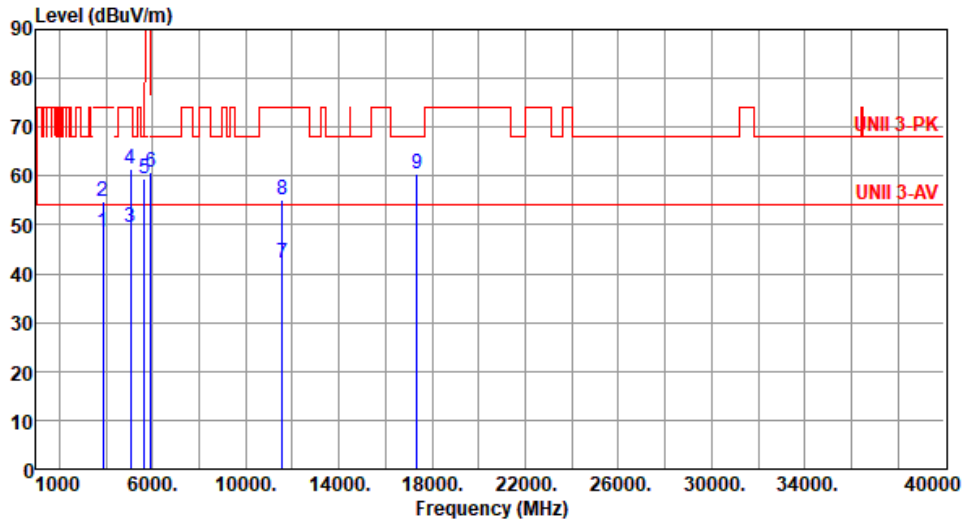
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):24 Humidity(%):62									
									
	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	3830.00	42.36	54.00	-11.64	41.30	1.06	Average	100	105
2	3830.00	49.41	74.00	-24.59	48.35	1.06	Peak	100	105
3	5027.00	44.32	54.00	-9.68	40.20	4.12	Average	100	337
4	5027.00	56.62	74.00	-17.38	52.50	4.12	Peak	100	337
5	5650.00	58.00	68.20	-10.20	53.19	4.81	Peak	100	337
6	5700.00	62.19	105.20	-43.01	57.17	5.02	Peak	100	337
7	5720.00	65.62	110.80	-45.18	60.48	5.14	Peak	100	337
8	5725.00	76.32	122.20	-45.88	71.15	5.17	Peak	100	337
9	5925.00	57.94	68.20	-10.26	52.33	5.61	Peak	100	337
10	11490.00	42.35	54.00	-11.65	27.96	14.39	Average	100	36
11	11490.00	54.68	74.00	-19.32	40.29	14.39	Peak	100	36
12	17235.00	60.22	68.20	-7.98	42.76	17.46	Peak	100	39

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(°C):24 Humidity(%):62



	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	3856.66	48.33	54.00	-5.67	47.18	1.15	Average	148	353
2	3856.66	54.85	74.00	-19.15	53.70	1.15	Peak	148	353
3	5062.00	49.56	54.00	-4.44	45.24	4.32	Average	115	193
4	5062.00	61.55	74.00	-12.45	57.23	4.32	Peak	115	193
5	5650.00	59.55	68.20	-8.65	54.74	4.81	Peak	133	203
6	5925.00	60.83	68.20	-7.37	55.22	5.61	Peak	133	203
7	11570.00	42.08	54.00	-11.92	27.83	14.25	Average	100	55
8	11570.00	55.12	74.00	-18.88	40.87	14.25	Peak	100	55
9	17355.00	60.28	68.20	-7.92	42.37	17.91	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

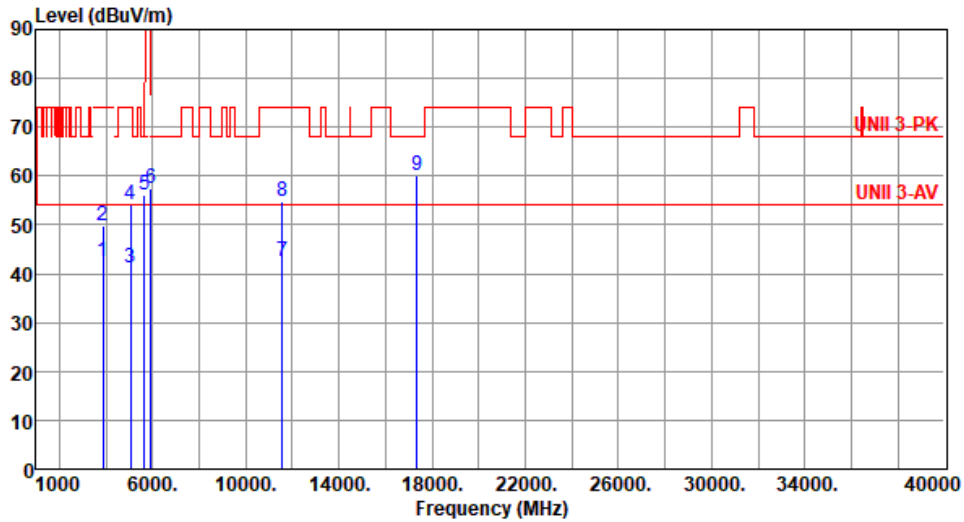
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5785
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Polarization	Vertical
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Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	3856.66	42.49	54.00	-11.51	41.34	1.15	Average	100	110
2	3856.66	49.72	74.00	-24.28	48.57	1.15	Peak	100	110
3	5062.00	41.16	54.00	-12.84	36.84	4.32	Average	100	183
4	5062.00	54.27	74.00	-19.73	49.95	4.32	Peak	100	183
5	5650.00	56.14	68.20	-12.06	51.33	4.81	Peak	100	183
6	5925.00	57.31	68.20	-10.89	51.70	5.61	Peak	100	183
7	11570.00	42.49	54.00	-11.51	28.24	14.25	Average	100	40
8	11570.00	54.85	74.00	-19.15	40.60	14.25	Peak	100	40
9	17355.00	60.06	68.20	-8.14	42.15	17.91	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

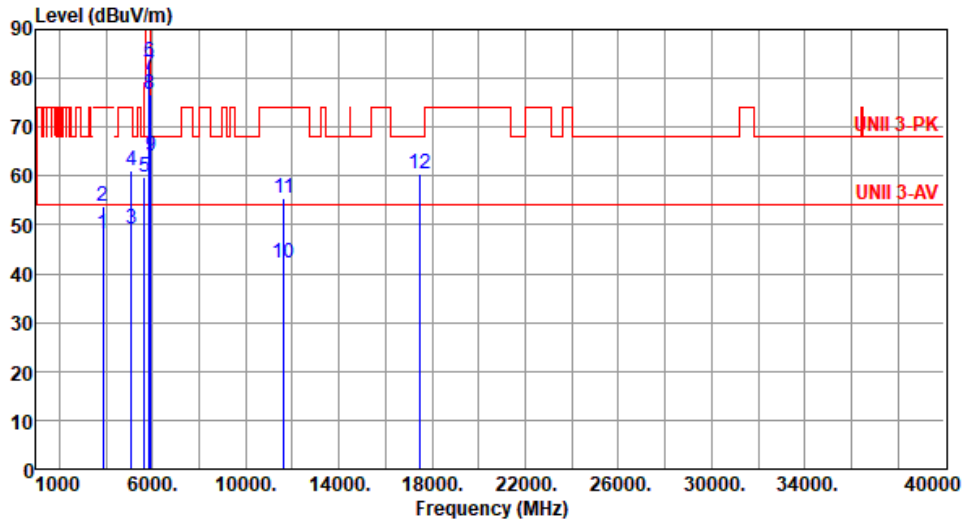
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	3883.33	48.31	54.00	-5.69	47.06	1.25	Average	210	206
2	3883.33	53.74	74.00	-20.26	52.49	1.25	Peak	210	206
3	5097.00	49.15	54.00	-4.85	44.39	4.76	Average	114	185
4	5097.00	61.22	74.00	-12.78	56.46	4.76	Peak	114	185
5	5650.00	59.68	68.20	-8.52	54.87	4.81	Peak	130	202
6	5850.00	83.36	122.20	-38.84	77.71	5.65	Peak	130	202
7	5855.00	80.84	110.80	-29.96	75.19	5.65	Peak	130	202
8	5875.00	76.75	105.20	-28.45	71.09	5.66	Peak	130	202
9	5925.00	64.01	68.20	-4.19	58.40	5.61	Peak	130	202
10	11650.00	42.15	54.00	-11.85	28.25	13.90	Average	100	61
11	11650.00	55.36	74.00	-18.64	41.46	13.90	Peak	100	61
12	17475.00	60.41	68.20	-7.79	41.86	18.55	Peak	100	41

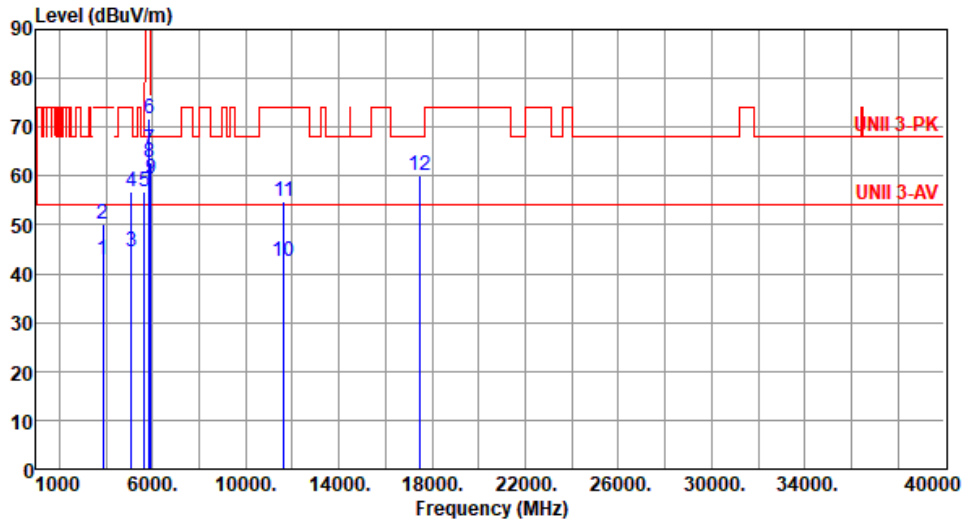
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):24 Humidity(%):62



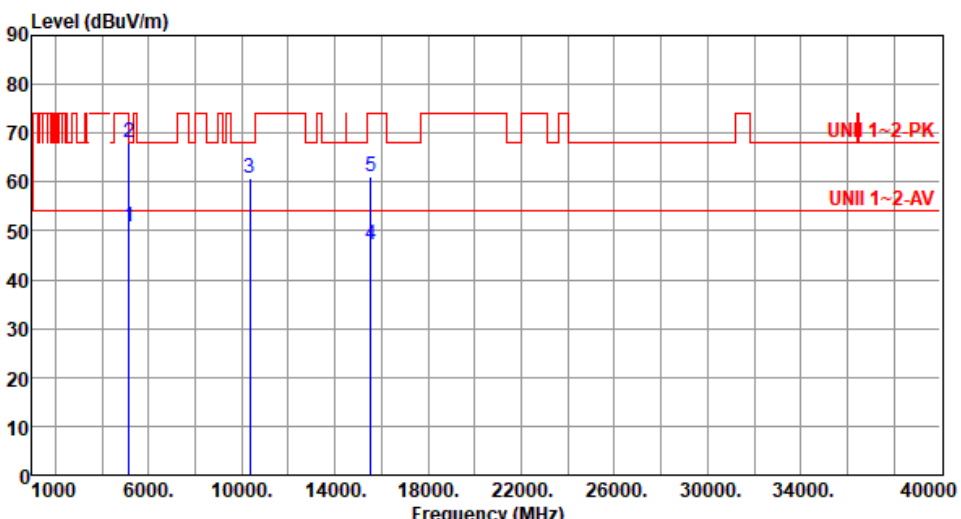
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3883.33	42.94	54.00	-11.06	41.69	1.25	Average	100	121
2	3883.33	50.11	74.00	-23.89	48.86	1.25	Peak	100	121
3	5097.00	44.56	54.00	-9.44	39.80	4.76	Average	100	335
4	5097.00	56.95	74.00	-17.05	52.19	4.76	Peak	100	335
5	5650.00	56.78	68.20	-11.42	51.97	4.81	Peak	100	335
6	5850.00	71.71	122.20	-50.49	66.06	5.65	Peak	100	335
7	5855.00	65.46	110.80	-45.34	59.81	5.65	Peak	100	335
8	5875.00	62.85	105.20	-42.35	57.19	5.66	Peak	100	335
9	5925.00	59.32	68.20	-8.88	53.71	5.61	Peak	100	335
10	11650.00	42.61	54.00	-11.39	28.71	13.90	Average	100	44
11	11650.00	54.93	74.00	-19.07	41.03	13.90	Peak	100	44
12	17475.00	60.21	68.20	-7.99	41.66	18.55	Peak	100	55

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

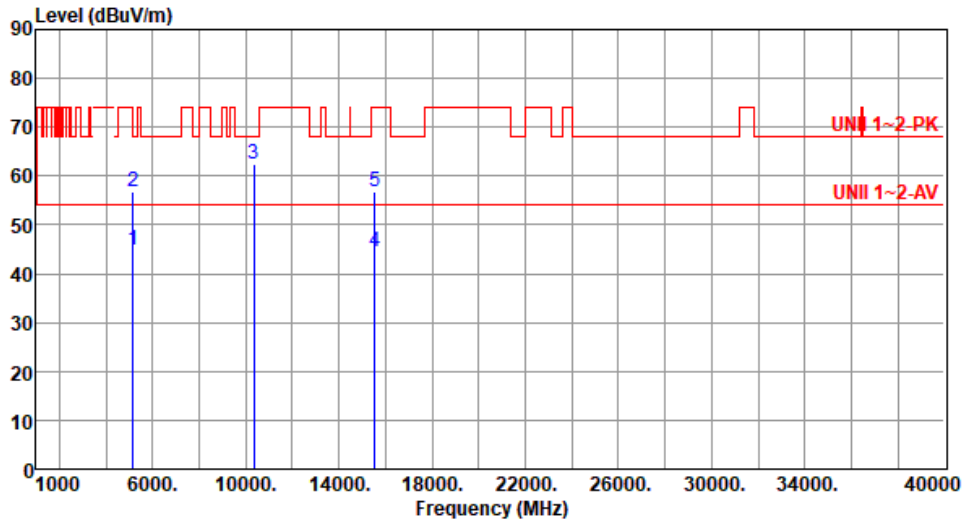
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.3 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By : Roger Lu		Temperature(°C): 24	Humidity(%): 62						
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	50.96	54.00	-3.04	45.95	5.01	Average	138	198
2	5150.00	67.96	74.00	-6.04	62.95	5.01	Peak	138	198
3	10360.00	60.89	68.20	-7.31	46.68	14.21	Peak	100	20
4	15540.00	47.07	54.00	-6.93	33.43	13.64	Average	251	46
5	15540.00	61.05	74.00	-12.95	47.41	13.64	Peak	251	46
<p>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).</p>									

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.84	54.00	-9.16	39.83	5.01	Average	100	337
2	5150.00	56.90	74.00	-17.10	51.89	5.01	Peak	100	337
3	10360.00	62.33	68.20	-5.87	48.12	14.21	Peak	365	26
4	15540.00	44.51	54.00	-9.49	30.87	13.64	Average	325	250
5	15540.00	56.68	74.00	-17.32	43.04	13.64	Peak	325	250

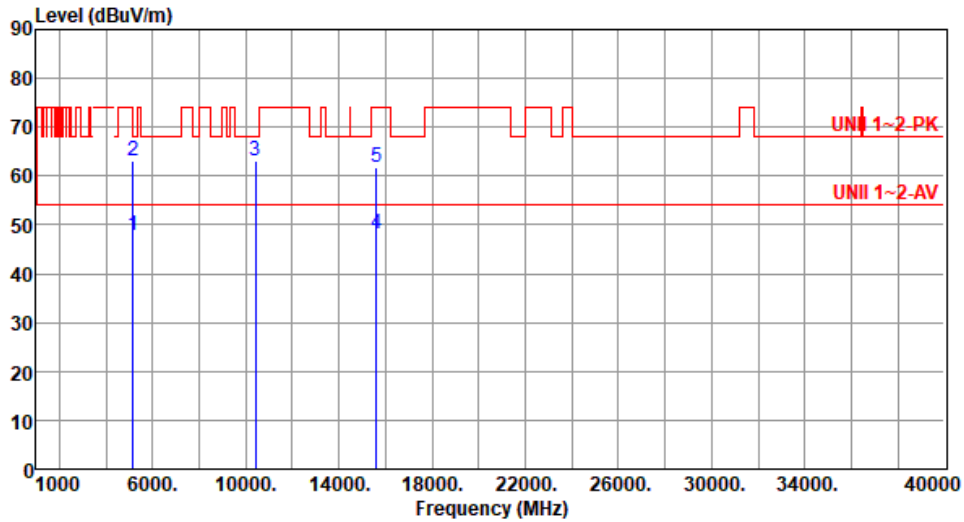
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	47.91	54.00	-6.09	42.90	5.01	Average	135	201
2	5150.00	62.95	74.00	-11.05	57.94	5.01	Peak	135	201
3	10400.00	62.97	68.20	-5.23	48.64	14.33	Peak	100	24
4	15600.00	48.14	54.00	-5.86	34.81	13.33	Average	246	47
5	15600.00	61.75	74.00	-12.25	48.42	13.33	Peak	246	47

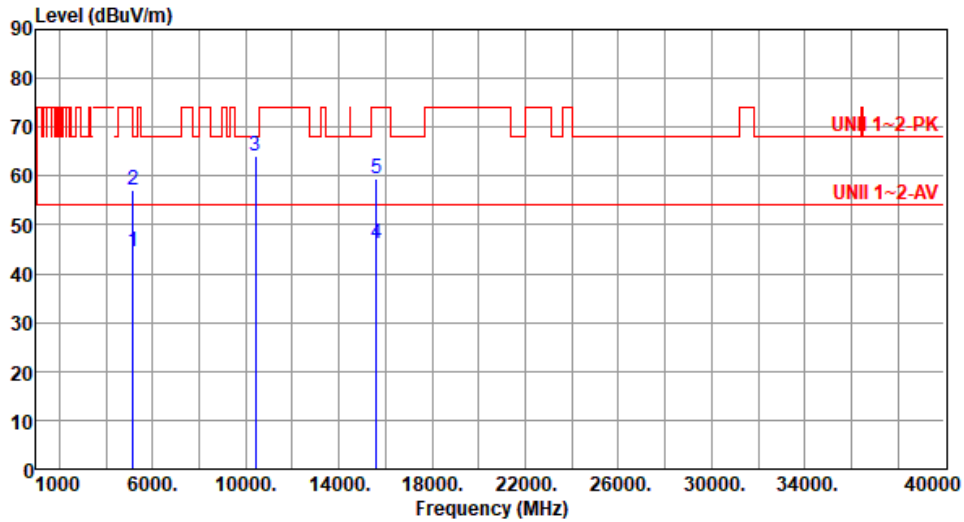
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.44	54.00	-9.56	39.43	5.01	Average	100	339
2	5150.00	57.06	74.00	-16.94	52.05	5.01	Peak	100	339
3	10400.00	64.02	68.20	-4.18	49.69	14.33	Peak	243	24
4	15600.00	46.24	54.00	-7.76	32.91	13.33	Average	328	244
5	15600.00	59.34	74.00	-14.66	46.01	13.33	Peak	328	244

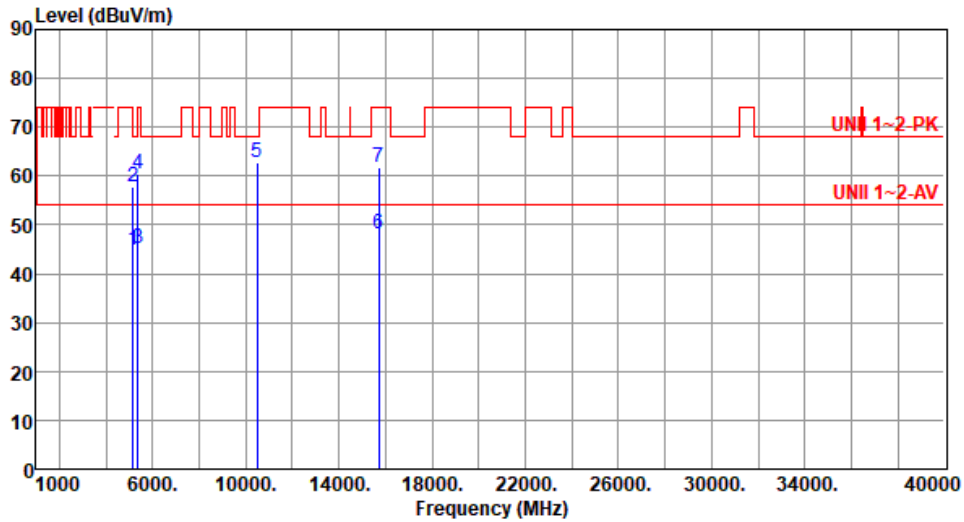
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.77	54.00	-9.23	39.76	5.01	Average	136	202
2	5150.00	57.81	74.00	-16.19	52.80	5.01	Peak	136	202
3	5350.00	45.13	54.00	-8.87	40.71	4.42	Average	136	202
4	5350.00	60.47	74.00	-13.53	56.05	4.42	Peak	136	202
5	10480.00	62.67	68.20	-5.53	48.21	14.46	Peak	100	22
6	15720.00	48.25	54.00	-5.75	34.83	13.42	Average	248	44
7	15720.00	61.94	74.00	-12.06	48.52	13.42	Peak	248	44

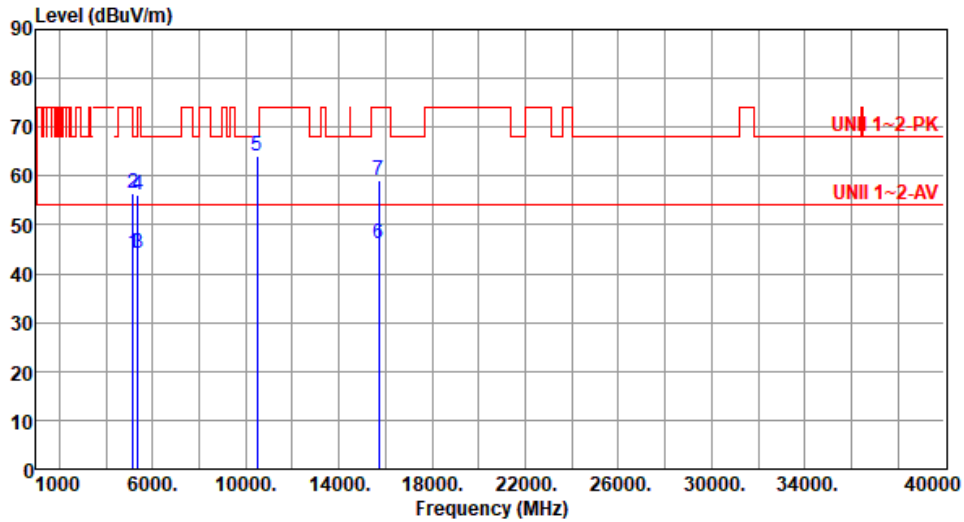
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.31	54.00	-9.69	39.30	5.01	Average	100	337
2	5150.00	56.46	74.00	-17.54	51.45	5.01	Peak	100	337
3	5350.00	44.09	54.00	-9.91	39.67	4.42	Average	100	337
4	5350.00	56.18	74.00	-17.82	51.76	4.42	Peak	100	337
5	10480.00	63.99	68.20	-4.21	49.53	14.46	Peak	245	29
6	15720.00	46.24	54.00	-7.76	32.82	13.42	Average	328	247
7	15720.00	59.24	74.00	-14.76	45.82	13.42	Peak	328	247

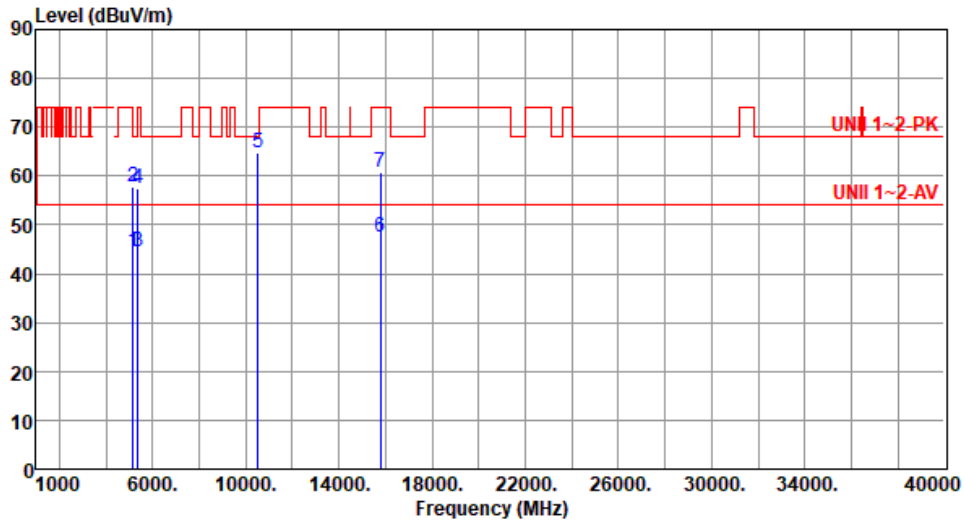
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.47	54.00	-9.53	39.46	5.01	Average	136	201
2	5150.00	57.85	74.00	-16.15	52.84	5.01	Peak	136	201
3	5350.00	44.42	54.00	-9.58	40.00	4.42	Average	136	201
4	5350.00	57.47	74.00	-16.53	53.05	4.42	Peak	136	201
5	10520.00	64.88	68.20	-3.32	50.41	14.47	Peak	314	22
6	15780.00	47.33	54.00	-6.67	33.85	13.48	Average	256	59
7	15780.00	60.63	74.00	-13.37	47.15	13.48	Peak	256	59

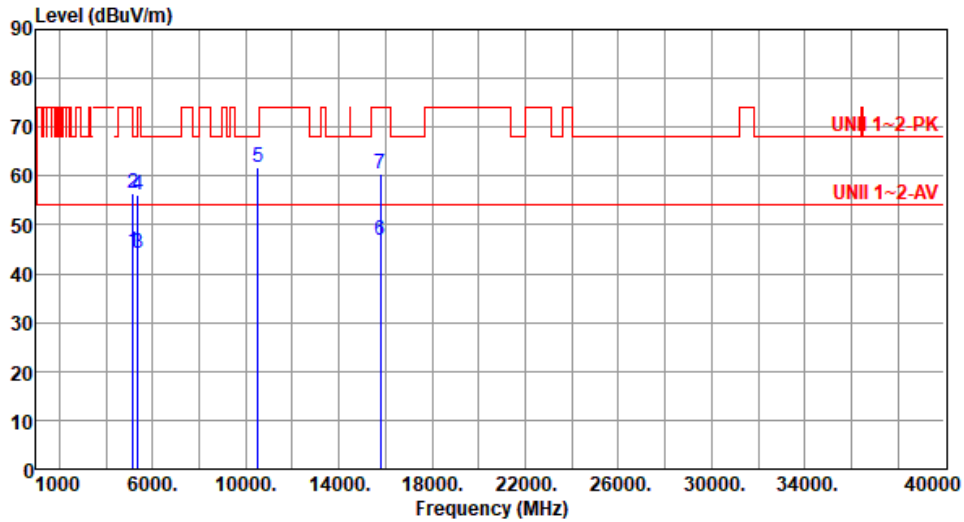
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62

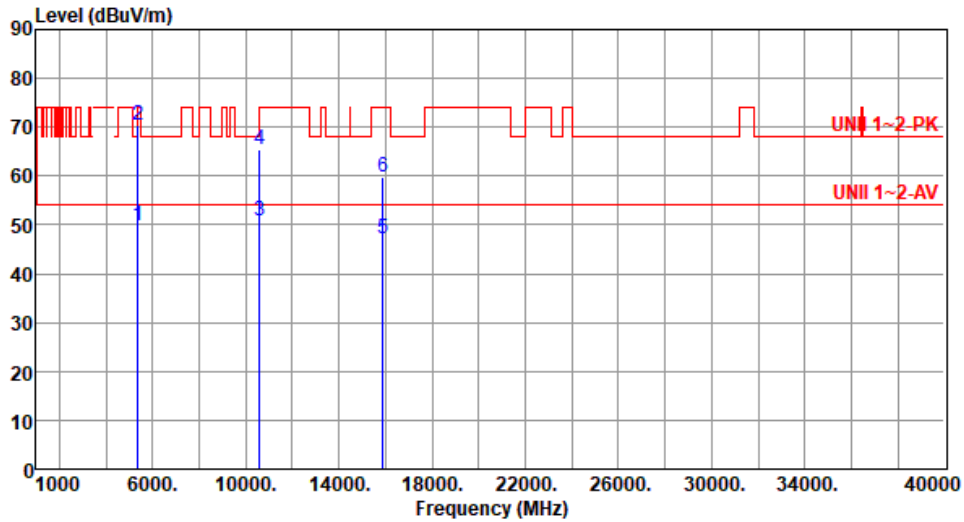


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.44	54.00	-9.56	39.43	5.01	Average	100	337
2	5150.00	56.57	74.00	-17.43	51.56	5.01	Peak	100	337
3	5350.00	44.17	54.00	-9.83	39.75	4.42	Average	100	337
4	5350.00	56.26	74.00	-17.74	51.84	4.42	Peak	100	337
5	10520.00	61.69	68.20	-6.51	47.22	14.47	Peak	381	24
6	15780.00	46.85	54.00	-7.15	33.37	13.48	Average	266	29
7	15780.00	60.58	74.00	-13.42	47.10	13.48	Peak	266	29

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	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	49.95	54.00	-4.05	45.53	4.42	Average	143	202
2	5350.00	70.27	74.00	-3.73	65.85	4.42	Peak	143	202
3	10600.00	50.81	54.00	-3.19	36.46	14.35	Average	370	21
4	10600.00	65.32	74.00	-8.68	50.97	14.35	Peak	370	21
5	15900.00	47.19	54.00	-6.81	33.62	13.57	Average	246	66
6	15900.00	59.76	74.00	-14.24	46.19	13.57	Peak	246	66

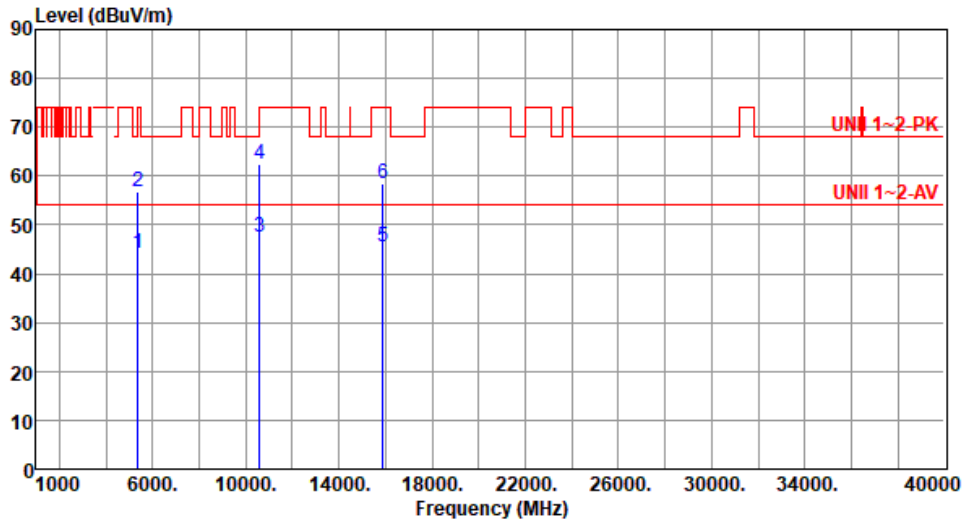
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.09	54.00	-9.91	39.67	4.42	Average	100	325
2	5350.00	56.76	74.00	-17.24	52.34	4.42	Peak	100	325
3	10600.00	47.46	54.00	-6.54	33.11	14.35	Average	381	25
4	10600.00	62.31	74.00	-11.69	47.96	14.35	Peak	381	25
5	15900.00	45.45	54.00	-8.55	31.88	13.57	Average	236	296
6	15900.00	58.45	74.00	-15.55	44.88	13.57	Peak	236	296

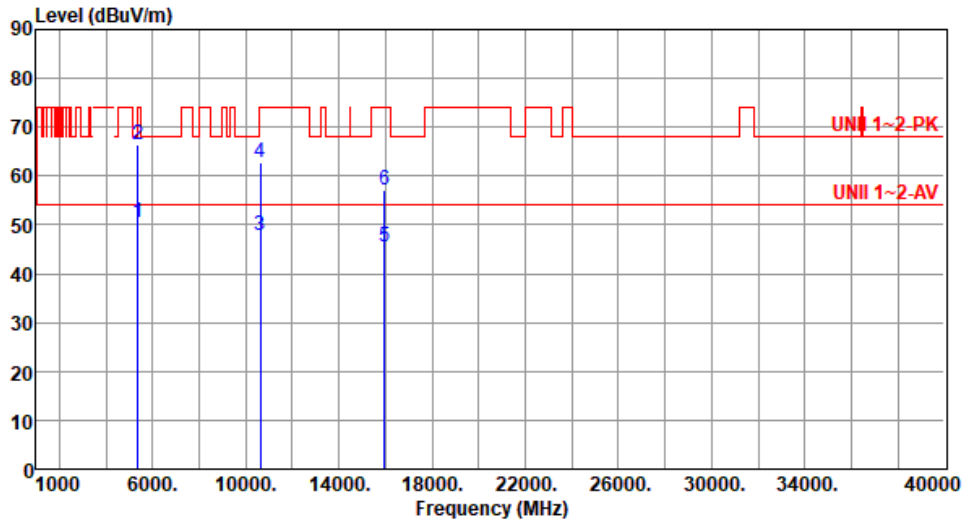
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	50.63	54.00	-3.37	46.21	4.42	Average	147	203
2	5350.00	66.34	74.00	-7.66	61.92	4.42	Peak	147	203
3	10640.00	47.93	54.00	-6.07	33.56	14.37	Average	345	42
4	10640.00	62.63	74.00	-11.37	48.26	14.37	Peak	345	42
5	15960.00	45.58	54.00	-8.42	31.90	13.68	Average	245	68
6	15960.00	57.24	74.00	-16.76	43.56	13.68	Peak	245	68

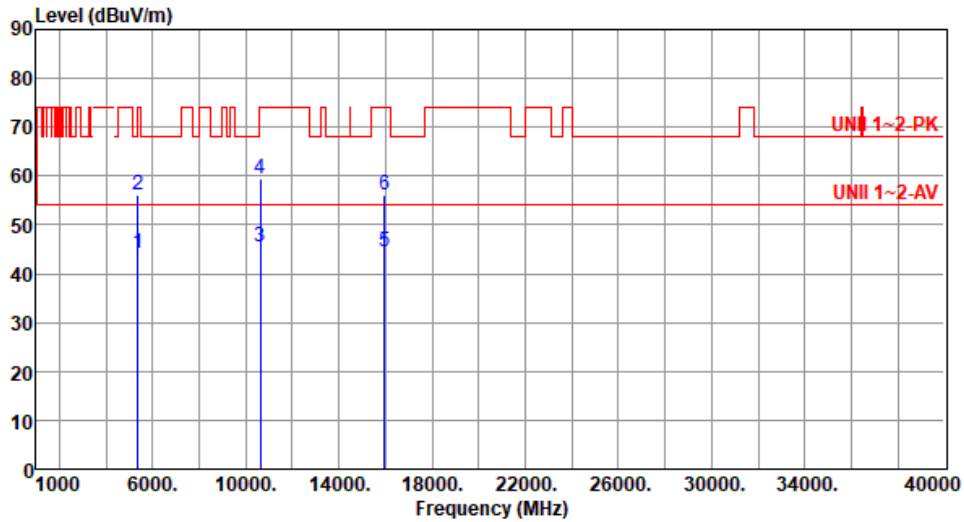
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.13	54.00	-9.87	39.71	4.42	Average	100	340
2	5350.00	56.11	74.00	-17.89	51.69	4.42	Peak	100	340
3	10640.00	45.59	54.00	-8.41	31.22	14.37	Average	383	24
4	10640.00	59.29	74.00	-14.71	44.92	14.37	Peak	383	24
5	15960.00	44.57	54.00	-9.43	30.89	13.68	Average	224	293
6	15960.00	56.27	74.00	-17.73	42.59	13.68	Peak	224	293

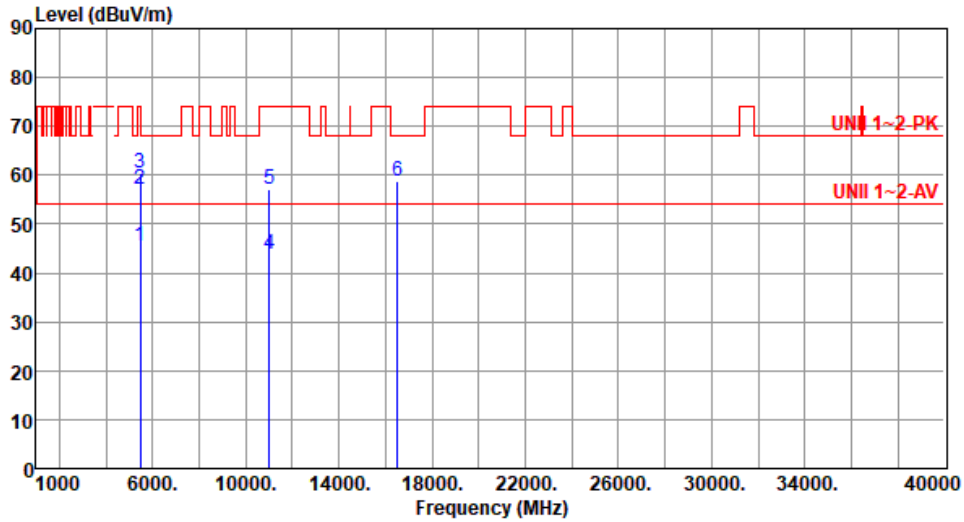
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By : Roger Lu Temperature(°C): 24 Humidity(%): 62



	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	45.63	54.00	-8.37	40.96	4.67	Average	141	206
2	5460.00	57.16	74.00	-16.84	52.49	4.67	Peak	141	206
3	5470.00	60.44	68.20	-7.76	55.74	4.70	Peak	141	206
4	11000.00	43.97	54.00	-10.03	29.32	14.65	Average	100	26
5	11000.00	56.99	74.00	-17.01	42.34	14.65	Peak	100	26
6	16500.00	58.91	68.20	-9.29	42.57	16.34	Peak	100	24

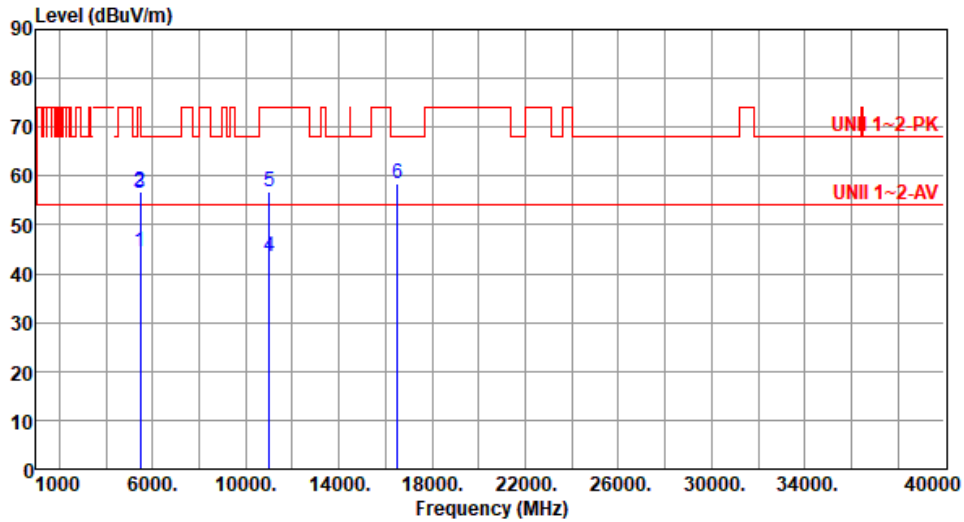
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.51	54.00	-9.49	39.84	4.67	Average	100	342
2	5460.00	56.80	74.00	-17.20	52.13	4.67	Peak	100	342
3	5470.00	56.62	68.20	-11.58	51.92	4.70	Peak	100	342
4	11000.00	43.62	54.00	-10.38	28.97	14.65	Average	100	7
5	11000.00	56.66	74.00	-17.34	42.01	14.65	Peak	100	7
6	16500.00	58.48	68.20	-9.72	42.14	16.34	Peak	100	6

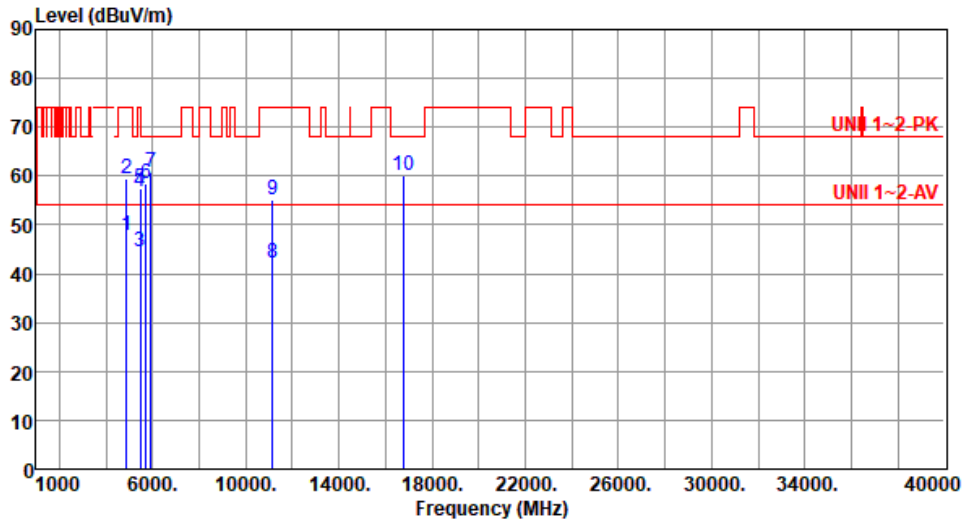
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	4880.00	47.86	54.00	-6.14	43.74	4.12	Average	145	209
2	4880.00	59.47	74.00	-14.53	55.35	4.12	Peak	145	209
3	5460.00	44.56	54.00	-9.44	39.89	4.67	Average	145	209
4	5460.00	56.89	74.00	-17.11	52.22	4.67	Peak	145	209
5	5470.00	57.47	68.20	-10.73	52.77	4.70	Peak	145	209
6	5725.00	58.42	68.20	-9.78	53.25	5.17	Peak	145	209
7	5930.00	60.68	68.20	-7.52	55.07	5.61	Peak	145	209
8	11160.00	42.13	54.00	-11.87	28.16	13.97	Average	100	30
9	11160.00	55.11	74.00	-18.89	41.14	13.97	Peak	100	30
10	16740.00	60.07	68.20	-8.13	42.90	17.17	Peak	100	350

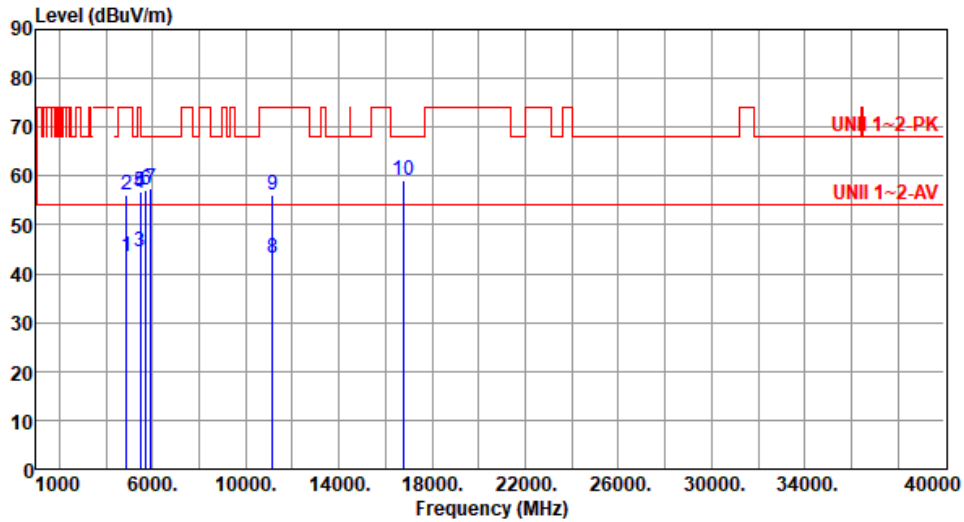
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	4880.00	43.53	54.00	-10.47	39.41	4.12	Average	100	350
2	4880.00	56.20	74.00	-17.80	52.08	4.12	Peak	100	350
3	5460.00	44.40	54.00	-9.60	39.73	4.67	Average	100	350
4	5460.00	56.60	74.00	-17.40	51.93	4.67	Peak	100	350
5	5470.00	56.72	68.20	-11.48	52.02	4.70	Peak	100	350
6	5725.00	57.05	68.20	-11.15	51.88	5.17	Peak	100	350
7	5930.00	57.52	68.20	-10.68	51.91	5.61	Peak	100	350
8	11160.00	43.17	54.00	-10.83	29.20	13.97	Average	100	15
9	11160.00	56.10	74.00	-17.90	42.13	13.97	Peak	100	15
10	16740.00	59.15	68.20	-9.05	41.98	17.17	Peak	100	14

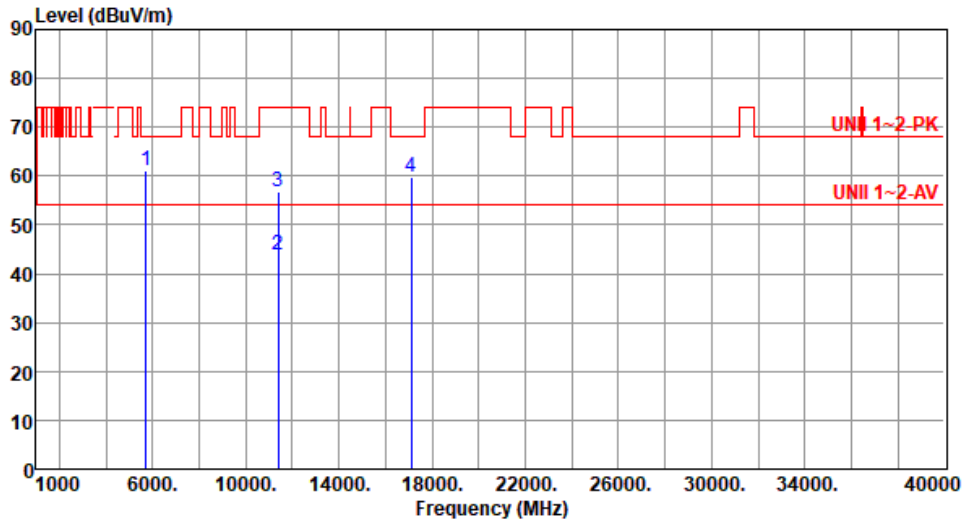
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	61.26	68.20	-6.94	56.09	5.17	Peak	115	190
2	11400.00	43.79	54.00	-10.21	29.65	14.14	Average	100	35
3	11400.00	56.89	74.00	-17.11	42.75	14.14	Peak	100	35
4	17100.00	59.84	68.20	-8.36	42.42	17.42	Peak	100	33

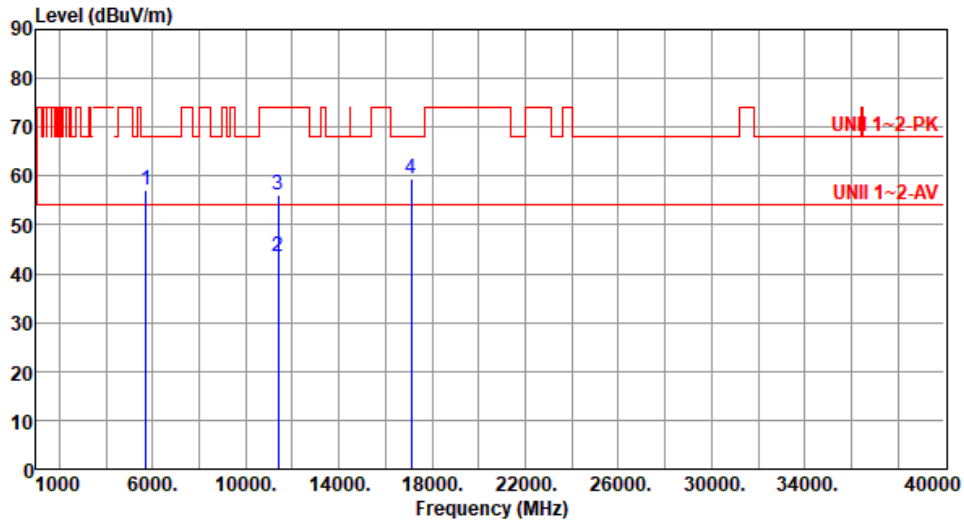
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	57.10	68.20	-11.10	51.93	5.17	Peak	100	345
2	11400.00	43.39	54.00	-10.61	29.25	14.14	Average	100	10
3	11400.00	56.29	74.00	-17.71	42.15	14.14	Peak	100	10
4	17100.00	59.28	68.20	-8.92	41.86	17.42	Peak	100	1

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

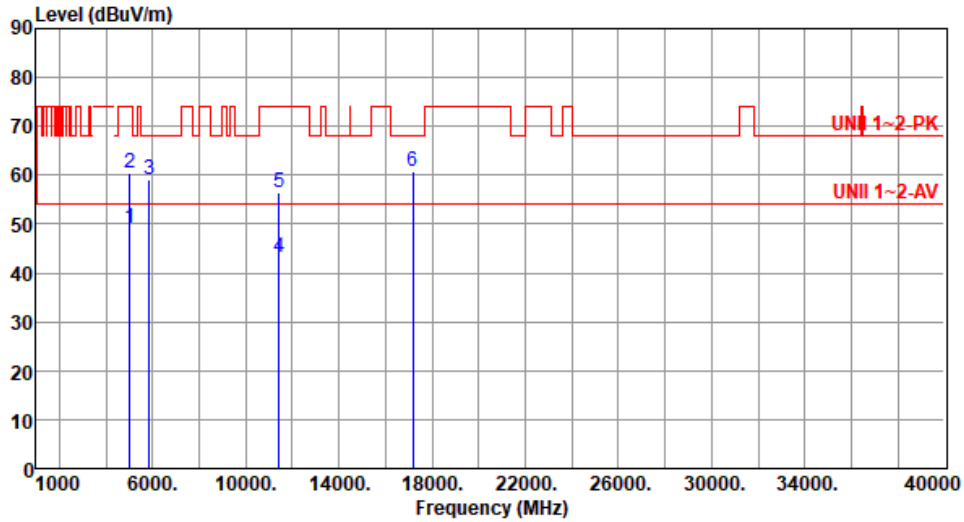
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5720
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Polarization	Horizontal
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Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5005.00	49.27	54.00	-4.73	45.20	4.07	Average	145	209
2	5005.00	60.40	74.00	-13.60	56.33	4.07	Peak	145	209
3	5850.00	58.98	68.20	-9.22	53.33	5.65	Peak	145	209
4	11440.00	43.11	54.00	-10.89	28.85	14.26	Average	100	40
5	11440.00	56.33	74.00	-17.67	42.07	14.26	Peak	100	40
6	17160.00	60.82	68.20	-7.38	43.40	17.42	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

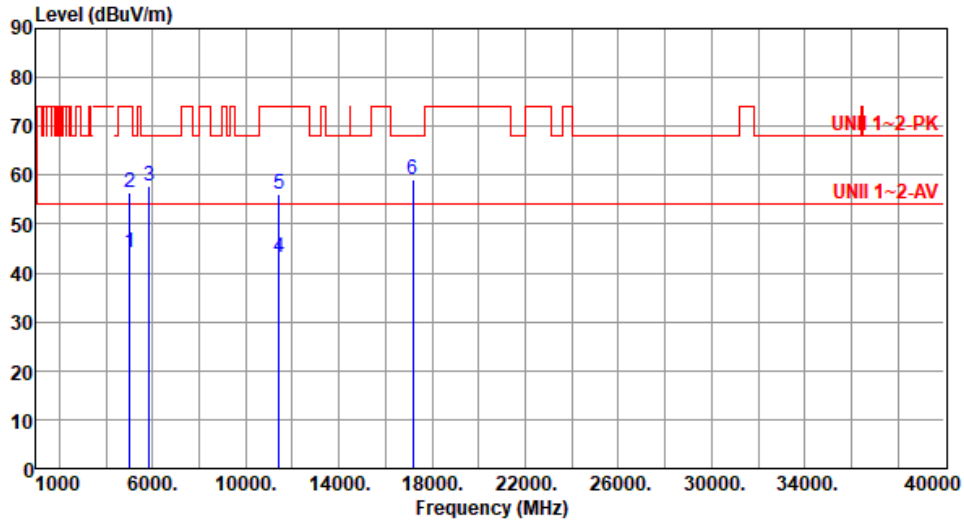
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5720
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Polarization	Vertical
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Test By : Roger Lu Temperature(°C):24 Humidity(%):62



	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	5005.00	44.04	54.00	-9.96	39.97	4.07	Average	100	353
2	5005.00	56.33	74.00	-17.67	52.26	4.07	Peak	100	353
3	5850.00	57.71	68.20	-10.49	52.06	5.65	Peak	100	353
4	11440.00	43.04	54.00	-10.96	28.78	14.26	Average	100	1
5	11440.00	56.14	74.00	-17.86	41.88	14.26	Peak	100	1
6	17160.00	59.21	68.20	-8.99	41.79	17.42	Peak	100	1

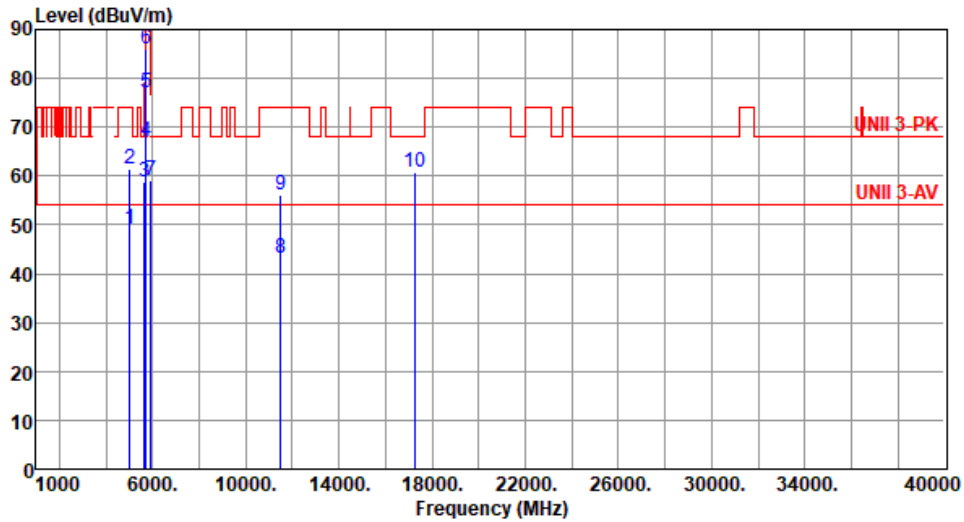
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5027.00	49.05	54.00	-4.95	44.93	4.12	Average	121	189
2	5027.00	61.56	74.00	-12.44	57.44	4.12	Peak	121	189
3	5650.00	58.68	68.20	-9.52	53.87	4.81	Peak	121	189
4	5700.00	67.23	105.20	-37.97	62.21	5.02	Peak	121	189
5	5720.00	77.21	110.80	-33.59	72.07	5.14	Peak	121	189
6	5725.00	86.01	122.20	-36.19	80.84	5.17	Peak	121	189
7	5925.00	59.00	68.20	-9.20	53.39	5.61	Peak	121	189
8	11490.00	43.19	54.00	-10.81	28.80	14.39	Average	100	30
9	11490.00	56.28	74.00	-17.72	41.89	14.39	Peak	100	30
10	17235.00	60.61	68.20	-7.59	43.15	17.46	Peak	100	50

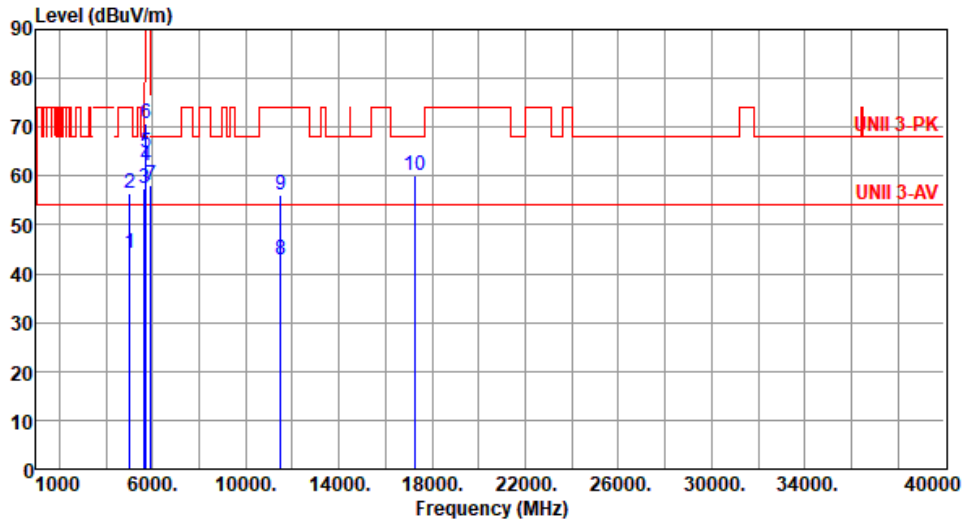
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5027.00	44.18	54.00	-9.82	40.06	4.12	Average	100	329
2	5027.00	56.59	74.00	-17.41	52.47	4.12	Peak	100	329
3	5650.00	57.38	68.20	-10.82	52.57	4.81	Peak	100	329
4	5700.00	62.22	105.20	-42.98	57.20	5.02	Peak	100	329
5	5720.00	64.88	110.80	-45.92	59.74	5.14	Peak	100	329
6	5725.00	70.68	122.20	-51.52	65.51	5.17	Peak	100	329
7	5925.00	58.00	68.20	-10.20	52.39	5.61	Peak	100	329
8	11490.00	42.88	54.00	-11.12	28.49	14.39	Average	100	12
9	11490.00	56.19	74.00	-17.81	41.80	14.39	Peak	100	12
10	17235.00	59.98	68.20	-8.22	42.52	17.46	Peak	100	15

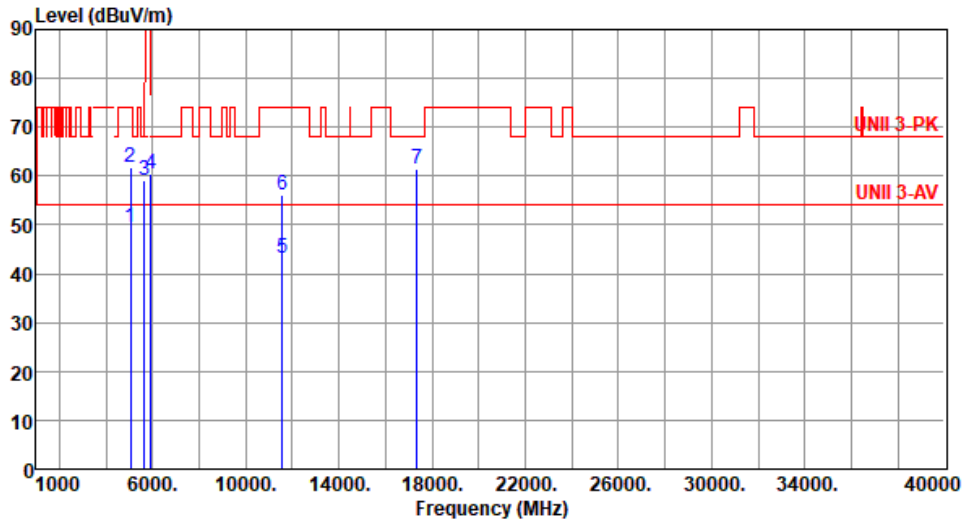
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5062.00	49.41	54.00	-4.59	45.09	4.32	Average	115	202
2	5062.00	61.70	74.00	-12.30	57.38	4.32	Peak	115	202
3	5650.00	59.11	68.20	-9.09	54.30	4.81	Peak	115	202
4	5925.00	60.28	68.20	-7.92	54.67	5.61	Peak	115	202
5	11570.00	43.14	54.00	-10.86	28.89	14.25	Average	100	40
6	11570.00	56.20	74.00	-17.80	41.95	14.25	Peak	100	40
7	17355.00	61.49	68.20	-6.71	43.58	17.91	Peak	100	90

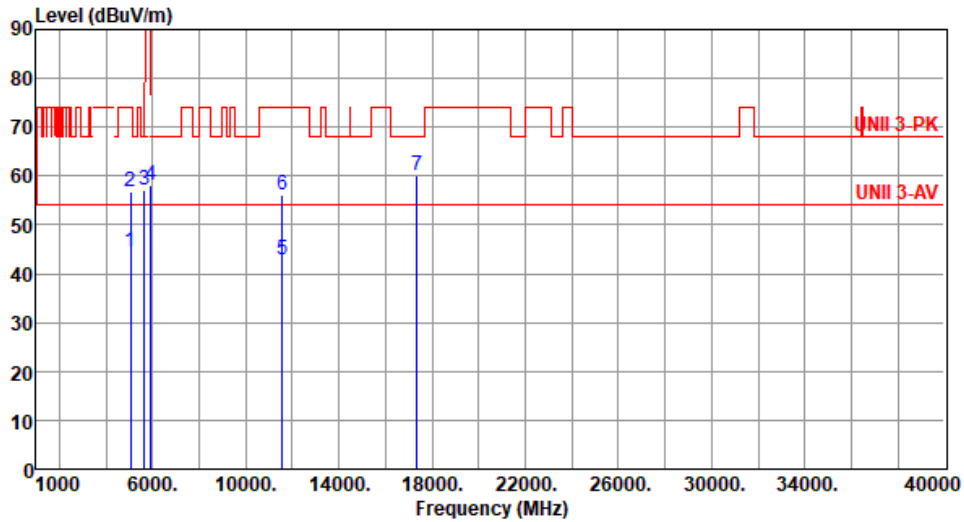
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5062.00	44.38	54.00	-9.62	40.06	4.32	Average	100	337
2	5062.00	56.73	74.00	-17.27	52.41	4.32	Peak	100	337
3	5650.00	57.28	68.20	-10.92	52.47	4.81	Peak	100	337
4	5925.00	58.00	68.20	-10.20	52.39	5.61	Peak	100	337
5	11570.00	42.98	54.00	-11.02	28.73	14.25	Average	100	2
6	11570.00	56.08	74.00	-17.92	41.83	14.25	Peak	100	2
7	17355.00	60.09	68.20	-8.11	42.18	17.91	Peak	100	3

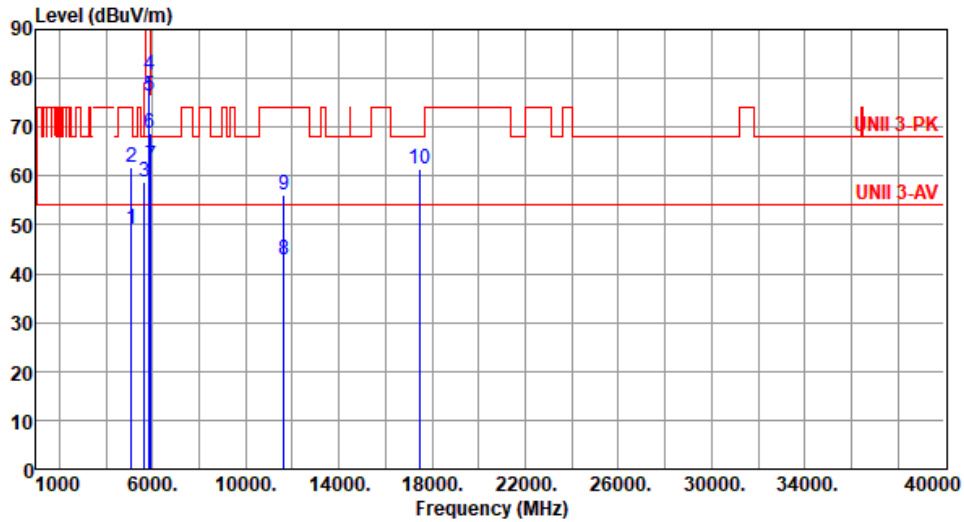
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5097.00	49.07	54.00	-4.93	44.31	4.76	Average	114	198
2	5097.00	61.80	74.00	-12.20	57.04	4.76	Peak	114	198
3	5650.00	58.68	68.20	-9.52	53.87	4.81	Peak	114	198
4	5850.00	80.77	122.20	-41.43	75.12	5.65	Peak	114	198
5	5855.00	76.48	110.80	-34.32	70.83	5.65	Peak	114	198
6	5875.00	68.90	105.20	-36.30	63.24	5.66	Peak	114	198
7	5925.00	62.11	68.20	-6.09	56.50	5.61	Peak	114	198
8	11650.00	43.00	54.00	-11.00	29.10	13.90	Average	100	50
9	11650.00	56.14	74.00	-17.86	42.24	13.90	Peak	100	50
10	17475.00	61.29	68.20	-6.91	42.74	18.55	Peak	100	30

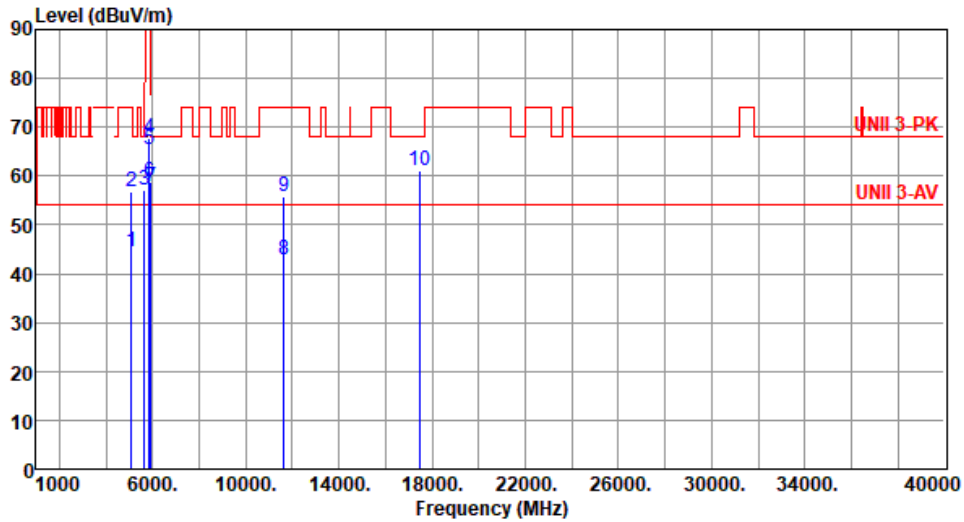
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



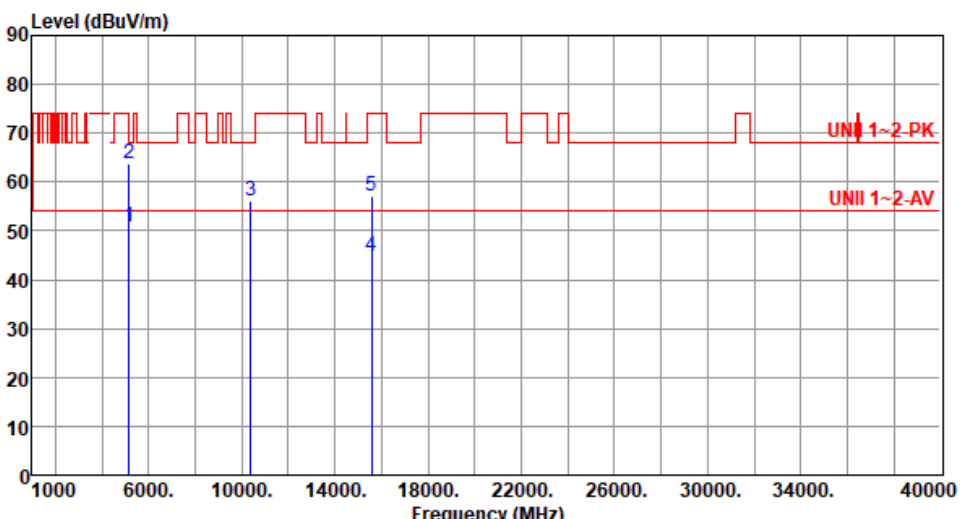
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5097.00	44.40	54.00	-9.60	39.64	4.76	Average	100	334
2	5097.00	56.88	74.00	-17.12	52.12	4.76	Peak	100	334
3	5650.00	57.11	68.20	-11.09	52.30	4.81	Peak	100	334
4	5850.00	67.77	122.20	-54.43	62.12	5.65	Peak	100	334
5	5855.00	65.46	110.80	-45.34	59.81	5.65	Peak	100	334
6	5875.00	58.88	105.20	-46.32	53.22	5.66	Peak	100	334
7	5925.00	57.78	68.20	-10.42	52.17	5.61	Peak	100	334
8	11650.00	42.88	54.00	-11.12	28.98	13.90	Average	100	7
9	11650.00	55.83	74.00	-18.17	41.93	13.90	Peak	100	7
10	17475.00	61.04	68.20	-7.16	42.49	18.55	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

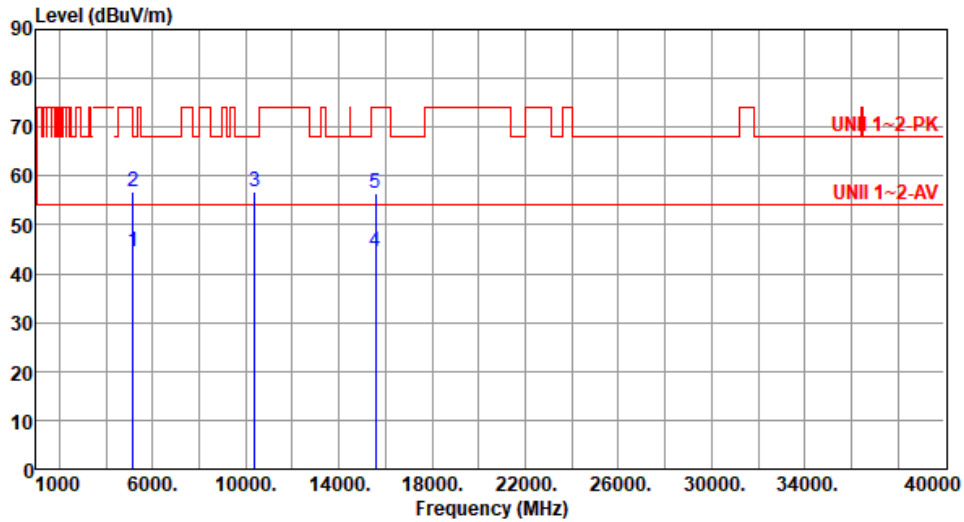
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.4 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):62									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	50.77	54.00	-3.23	45.76	5.01	Average	128	198
2	5150.00	63.69	74.00	-10.31	58.68	5.01	Peak	128	198
3	10380.00	56.28	68.20	-11.92	42.01	14.27	Peak	100	18
4	15570.00	44.90	54.00	-9.10	31.42	13.48	Average	100	45
5	15570.00	57.01	74.00	-16.99	43.53	13.48	Peak	100	45
<p>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).</p>									

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	44.42	54.00	-9.58	39.41	5.01	Average	100	338
2	5150.00	56.90	74.00	-17.10	51.89	5.01	Peak	100	338
3	10380.00	56.73	68.20	-11.47	42.46	14.27	Peak	100	28
4	15570.00	44.53	54.00	-9.47	31.05	13.48	Average	100	28
5	15570.00	56.58	74.00	-17.42	43.10	13.48	Peak	100	28

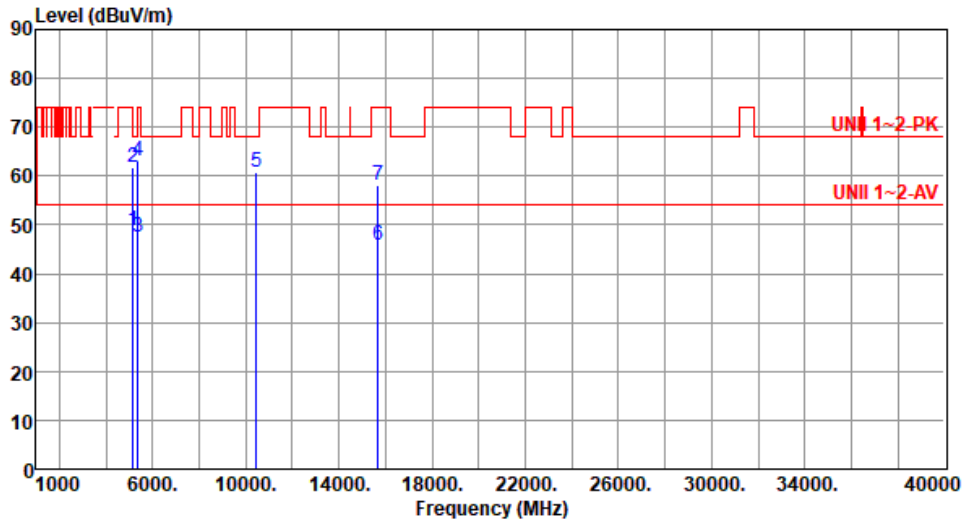
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	48.71	54.00	-5.29	43.70	5.01	Average	139	198
2	5150.00	61.62	74.00	-12.38	56.61	5.01	Peak	139	198
3	5350.00	47.43	54.00	-6.57	43.01	4.42	Average	139	198
4	5350.00	63.00	74.00	-11.00	58.58	4.42	Peak	139	198
5	10460.00	60.65	68.20	-7.55	46.22	14.43	Peak	100	20
6	15690.00	45.95	54.00	-8.05	32.55	13.40	Average	250	50
7	15690.00	57.95	74.00	-16.05	44.55	13.40	Peak	250	50

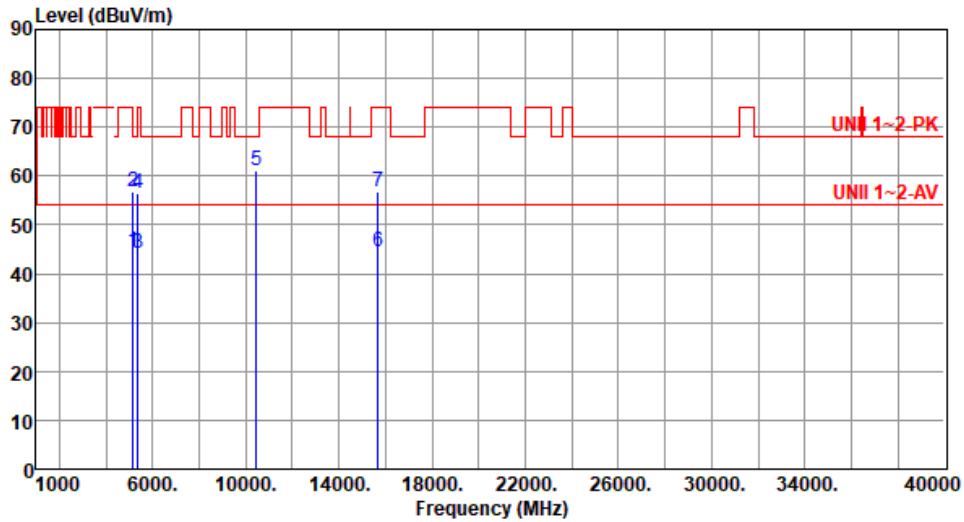
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	44.45	54.00	-9.55	39.44	5.01	Average	100	337
2	5150.00	56.87	74.00	-17.13	51.86	5.01	Peak	100	337
3	5350.00	44.27	54.00	-9.73	39.85	4.42	Average	100	337
4	5350.00	56.46	74.00	-17.54	52.04	4.42	Peak	100	337
5	10460.00	60.98	68.20	-7.22	46.55	14.43	Peak	276	29
6	15690.00	44.62	54.00	-9.38	31.22	13.40	Average	100	250
7	15690.00	56.65	74.00	-17.35	43.25	13.40	Peak	100	250

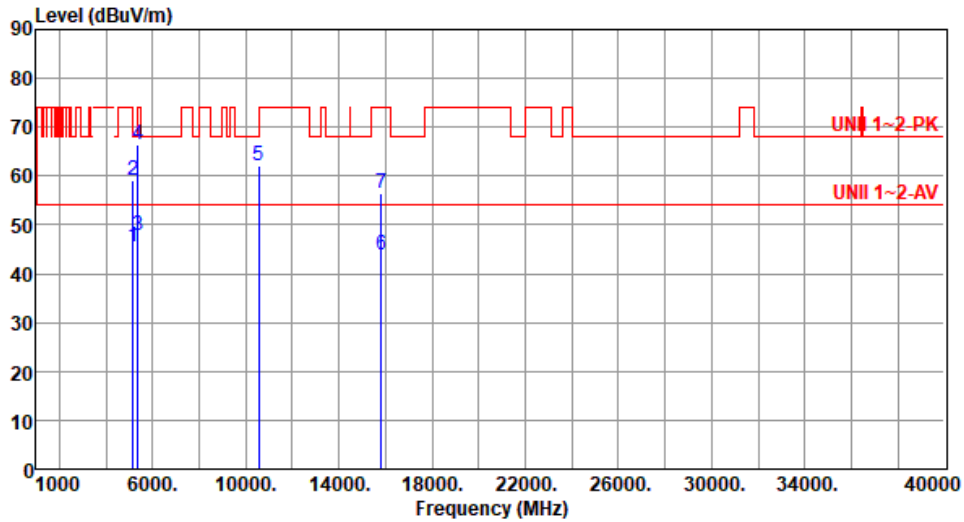
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):22 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	5150.00	45.49	54.00	-8.51	40.48	5.01	Average	138	203
2	5150.00	58.98	74.00	-15.02	53.97	5.01	Peak	138	203
3	5350.00	47.77	54.00	-6.23	43.35	4.42	Average	138	203
4	5350.00	66.33	74.00	-7.67	61.91	4.42	Peak	138	203
5	10540.00	61.98	68.20	-6.22	47.54	14.44	Peak	332	50
6	15810.00	43.75	54.00	-10.25	30.25	13.50	Average	100	62
7	15810.00	56.57	74.00	-17.43	43.07	13.50	Peak	100	62

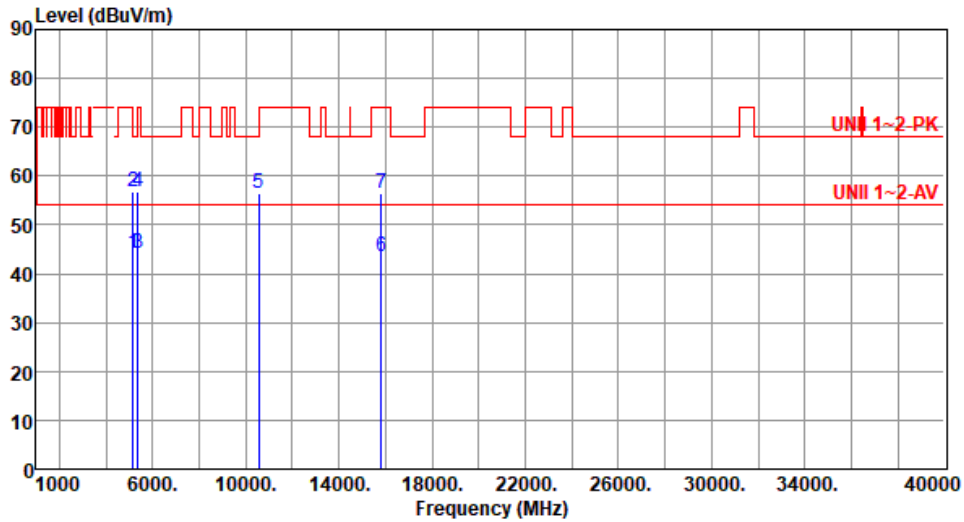
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):22 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	5150.00	44.25	54.00	-9.75	39.24	5.01	Average	100	342
2	5150.00	56.87	74.00	-17.13	51.86	5.01	Peak	100	342
3	5350.00	44.12	54.00	-9.88	39.70	4.42	Average	100	342
4	5350.00	56.75	74.00	-17.25	52.33	4.42	Peak	100	342
5	10540.00	56.43	68.20	-11.77	41.99	14.44	Peak	375	24
6	15810.00	43.35	54.00	-10.65	29.85	13.50	Average	100	303
7	15810.00	56.38	74.00	-17.62	42.88	13.50	Peak	100	303

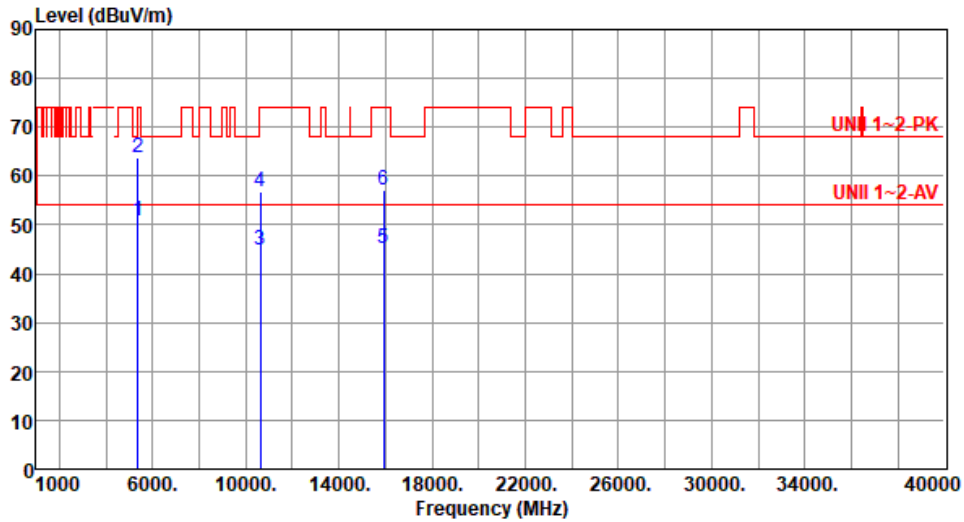
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	50.74	54.00	-3.26	46.32	4.42	Average	138	202
2	5350.00	63.89	74.00	-10.11	59.47	4.42	Peak	138	202
3	10620.00	44.92	54.00	-9.08	30.56	14.36	Average	100	52
4	10620.00	56.83	74.00	-17.17	42.47	14.36	Peak	100	52
5	15930.00	45.04	54.00	-8.96	31.41	13.63	Average	100	56
6	15930.00	57.09	74.00	-16.91	43.46	13.63	Peak	100	56

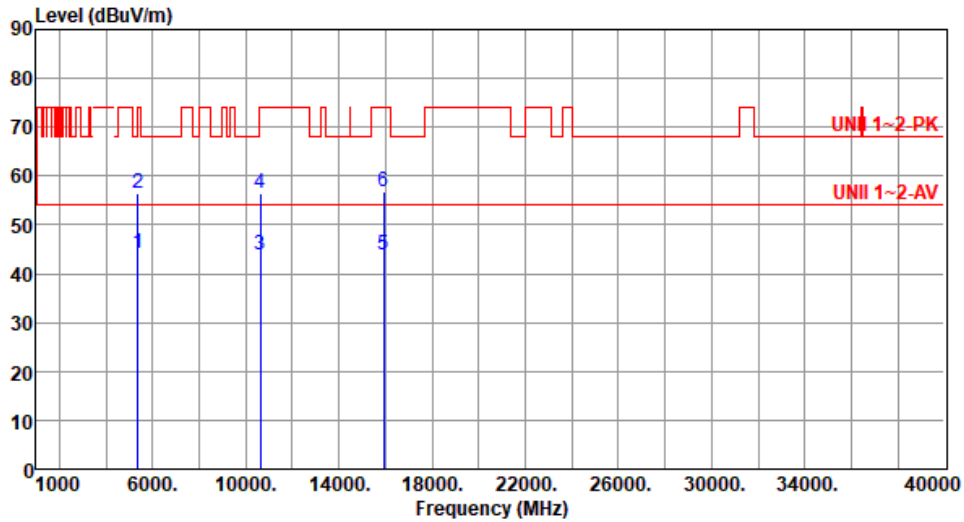
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	44.11	54.00	-9.89	39.69	4.42	Average	100	348
2	5350.00	56.51	74.00	-17.49	52.09	4.42	Peak	100	348
3	10620.00	43.71	54.00	-10.29	29.35	14.36	Average	100	22
4	10620.00	56.50	74.00	-17.50	42.14	14.36	Peak	100	22
5	15930.00	43.89	54.00	-10.11	30.26	13.63	Average	100	29
6	15930.00	56.74	74.00	-17.26	43.11	13.63	Peak	100	29

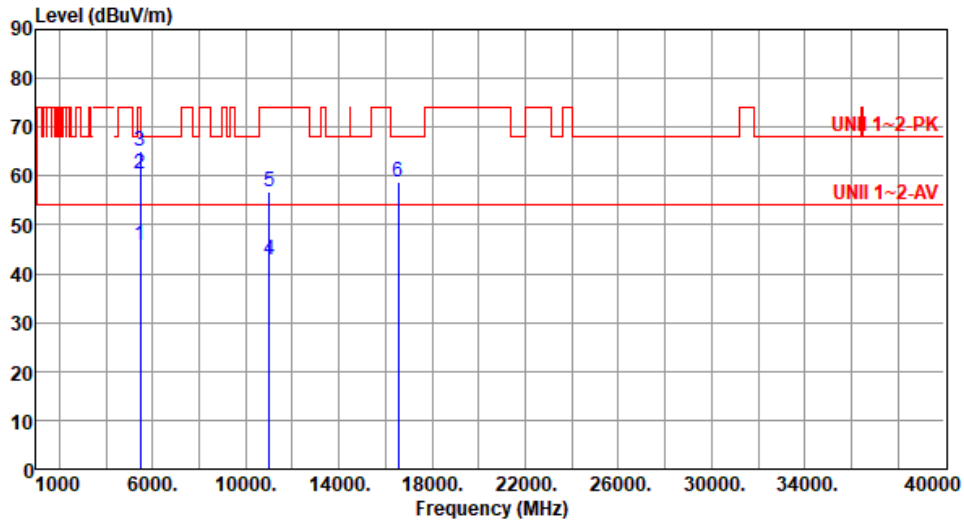
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):22 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	5460.00	45.93	54.00	-8.07	41.26	4.67	Average	120	198
2	5460.00	60.29	74.00	-13.71	55.62	4.67	Peak	120	198
3	5470.00	65.06	68.20	-3.14	60.36	4.70	Peak	120	198
4	11020.00	42.78	54.00	-11.22	28.22	14.56	Average	100	39
5	11020.00	56.84	74.00	-17.16	42.28	14.56	Peak	100	39
6	16530.00	58.70	68.20	-9.50	42.46	16.24	Peak	100	42

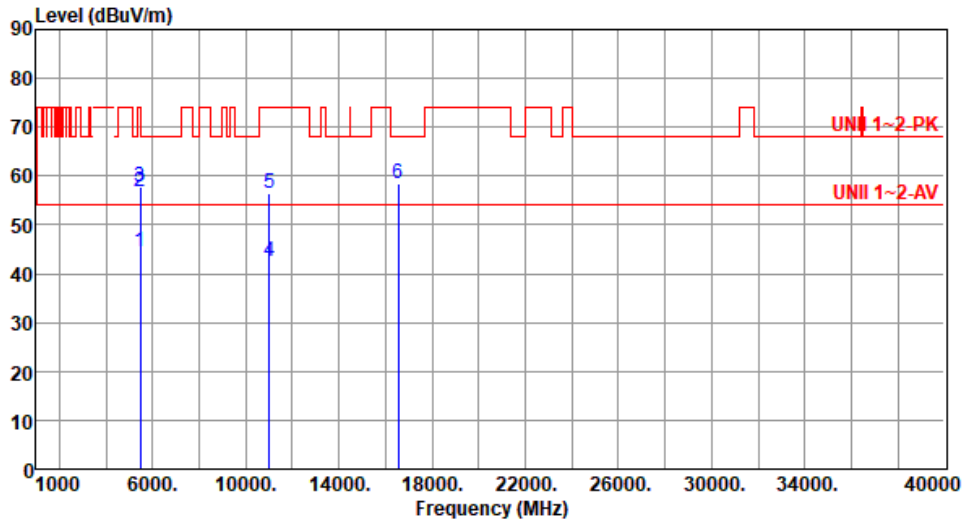
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):22 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	5460.00	44.53	54.00	-9.47	39.86	4.67	Average	100	326
2	5460.00	56.93	74.00	-17.07	52.26	4.67	Peak	100	326
3	5470.00	57.90	68.20	-10.30	53.20	4.70	Peak	100	326
4	11020.00	42.61	54.00	-11.39	28.05	14.56	Average	100	11
5	11020.00	56.51	74.00	-17.49	41.95	14.56	Peak	100	11
6	16530.00	58.45	68.20	-9.75	42.21	16.24	Peak	100	2

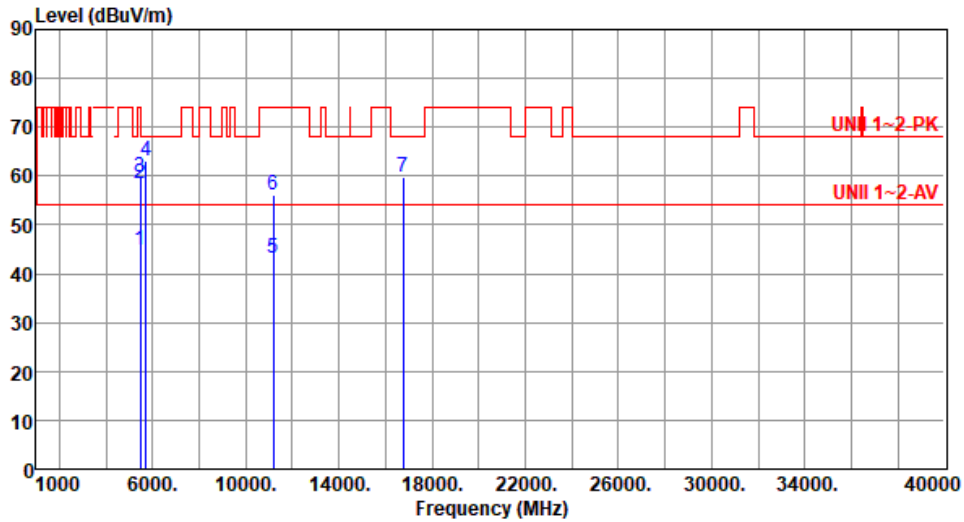
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	44.88	54.00	-9.12	40.21	4.67	Average	133	189
2	5460.00	58.55	74.00	-15.45	53.88	4.67	Peak	133	189
3	5470.00	59.80	68.20	-8.40	55.10	4.70	Peak	133	189
4	5725.00	63.05	68.20	-5.15	57.88	5.17	Peak	133	189
5	11180.00	43.21	54.00	-10.79	29.33	13.88	Average	100	33
6	11180.00	56.24	74.00	-17.76	42.36	13.88	Peak	100	33
7	16770.00	59.67	68.20	-8.53	42.32	17.35	Peak	100	39

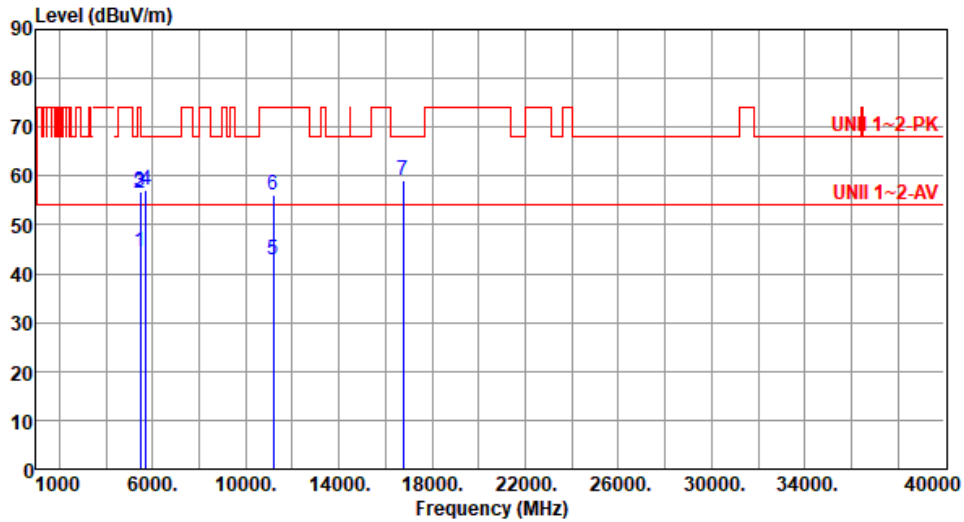
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	44.41	54.00	-9.59	39.74	4.67	Average	100	333
2	5460.00	56.60	74.00	-17.40	51.93	4.67	Peak	100	333
3	5470.00	56.77	68.20	-11.43	52.07	4.70	Peak	100	333
4	5725.00	57.20	68.20	-11.00	52.03	5.17	Peak	100	332
5	11180.00	42.91	54.00	-11.09	29.03	13.88	Average	100	14
6	11180.00	56.01	74.00	-17.99	42.13	13.88	Peak	100	14
7	16770.00	59.17	68.20	-9.03	41.82	17.35	Peak	100	19

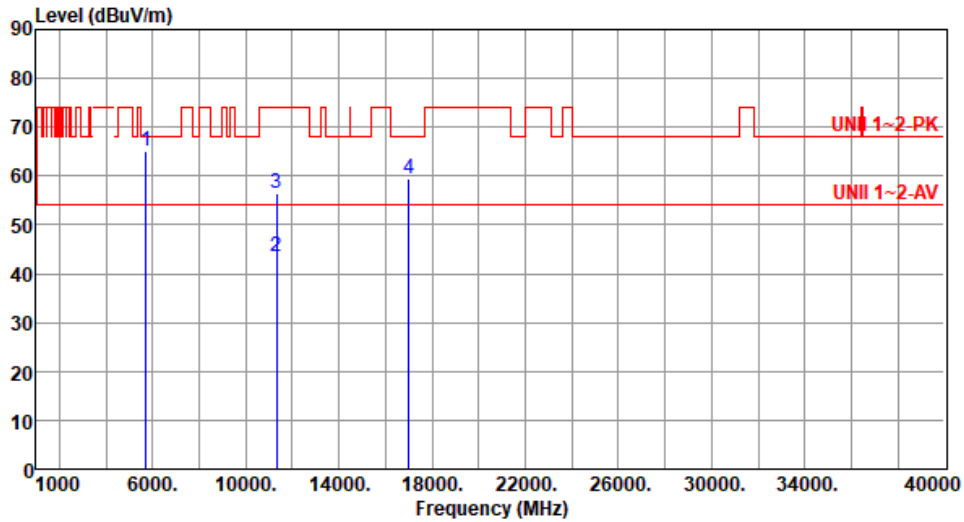
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	65.14	68.20	-3.06	59.97	5.17	Peak	131	198
2	11340.00	43.41	54.00	-10.59	29.43	13.98	Average	100	27
3	11340.00	56.49	74.00	-17.51	42.51	13.98	Peak	100	27
4	17010.00	59.47	68.20	-8.73	42.22	17.25	Peak	100	24

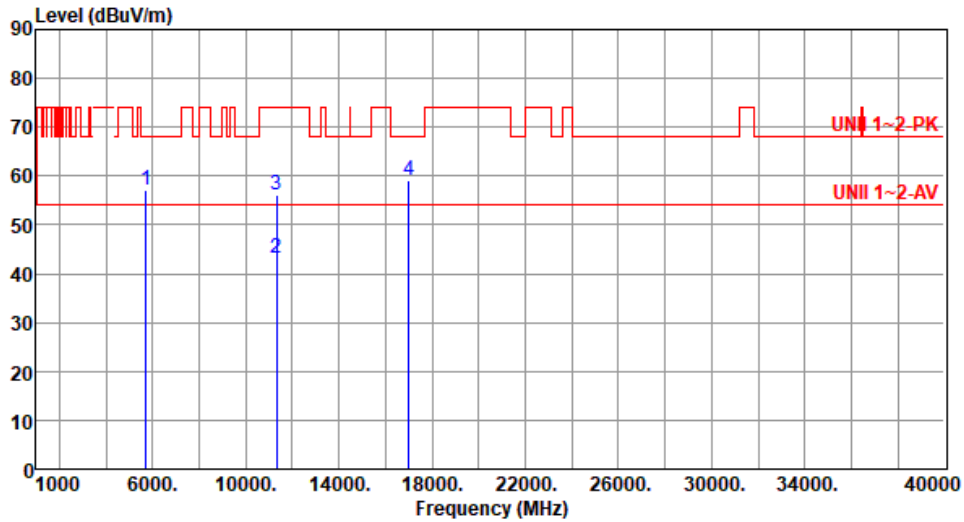
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62

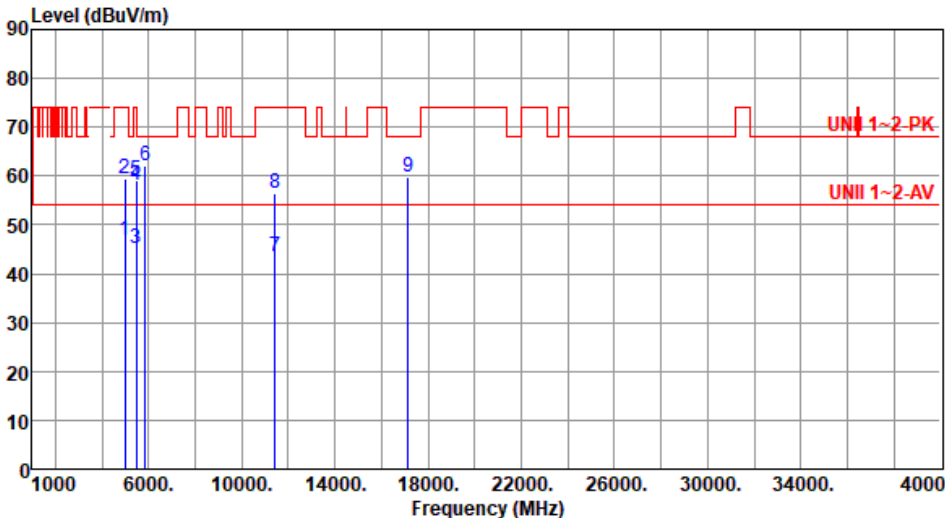


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	57.25	68.20	-10.95	52.08	5.17	Peak	100	347
2	11340.00	43.12	54.00	-10.88	29.14	13.98	Average	100	14
3	11340.00	56.12	74.00	-17.88	42.14	13.98	Peak	100	14
4	17010.00	59.27	68.20	-8.93	42.02	17.25	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

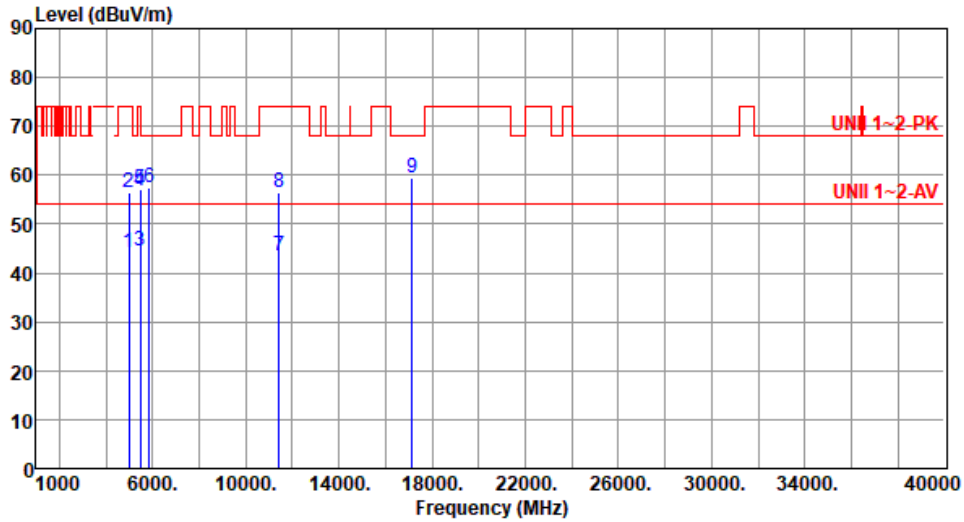
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5710						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):62									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5000.00	46.78	54.00	-7.22	42.72	4.06	Average	133	195
2	5000.00	59.61	74.00	-14.39	55.55	4.06	Peak	133	195
3	5460.00	45.11	54.00	-8.89	40.44	4.67	Average	136	205
4	5460.00	58.15	74.00	-15.85	53.48	4.67	Peak	136	205
5	5470.00	59.14	68.20	-9.06	54.44	4.70	Peak	136	205
6	5850.00	62.13	68.20	-6.07	56.48	5.65	Peak	136	205
7	11420.00	43.57	54.00	-10.43	29.37	14.20	Average	100	39
8	11420.00	56.61	74.00	-17.39	42.41	14.20	Peak	100	39
9	17130.00	59.73	68.20	-8.47	42.30	17.43	Peak	100	45
<p>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).</p>									

Modulation	VHT40	Test Freq. (MHz)	5710
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	5000.00	44.04	54.00	-9.96	39.98	4.06	Average	100	336
2	5000.00	56.43	74.00	-17.57	52.37	4.06	Peak	100	336
3	5460.00	44.55	54.00	-9.45	39.88	4.67	Average	100	336
4	5460.00	56.77	74.00	-17.23	52.10	4.67	Peak	100	336
5	5470.00	57.01	68.20	-11.19	52.31	4.70	Peak	100	336
6	5850.00	57.55	68.20	-10.65	51.90	5.65	Peak	100	336
7	11420.00	43.42	54.00	-10.58	29.22	14.20	Average	100	15
8	11420.00	56.37	74.00	-17.63	42.17	14.20	Peak	100	15
9	17130.00	59.39	68.20	-8.81	41.96	17.43	Peak	100	19

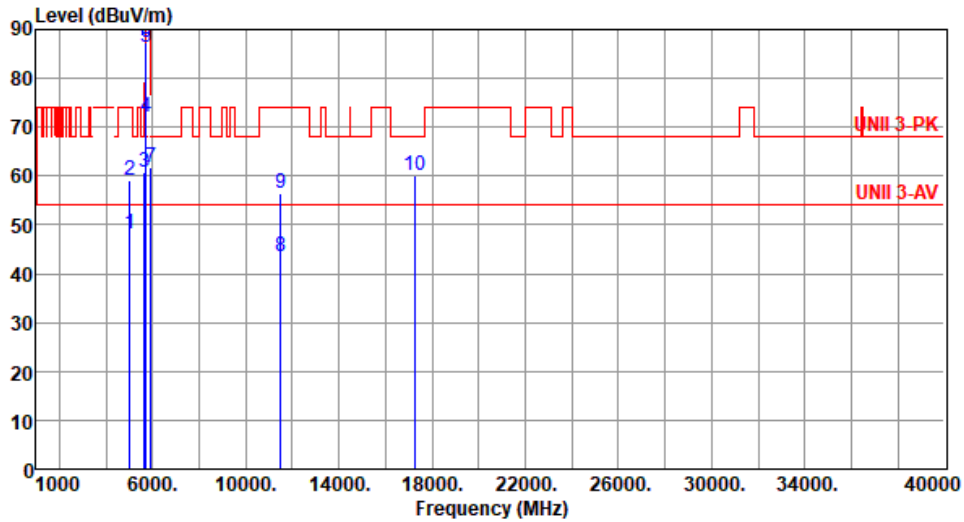
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	5030.00	48.01	54.00	-5.99	43.88	4.13	Average	133	196
2	5030.00	59.16	74.00	-14.84	55.03	4.13	Peak	133	196
3	5650.00	60.83	68.20	-7.37	56.02	4.81	Peak	135	201
4	5700.00	72.22	105.20	-32.98	67.20	5.02	Peak	135	201
5	5720.00	86.21	110.80	-24.59	81.07	5.14	Peak	135	201
6	5725.00	87.32	122.20	-34.88	82.15	5.17	Peak	135	201
7	5925.00	61.72	68.20	-6.48	56.11	5.61	Peak	135	201
8	11510.00	43.41	54.00	-10.59	29.01	14.40	Average	100	37
9	11510.00	56.49	74.00	-17.51	42.09	14.40	Peak	100	37
10	17265.00	60.17	68.20	-8.03	42.67	17.50	Peak	100	35

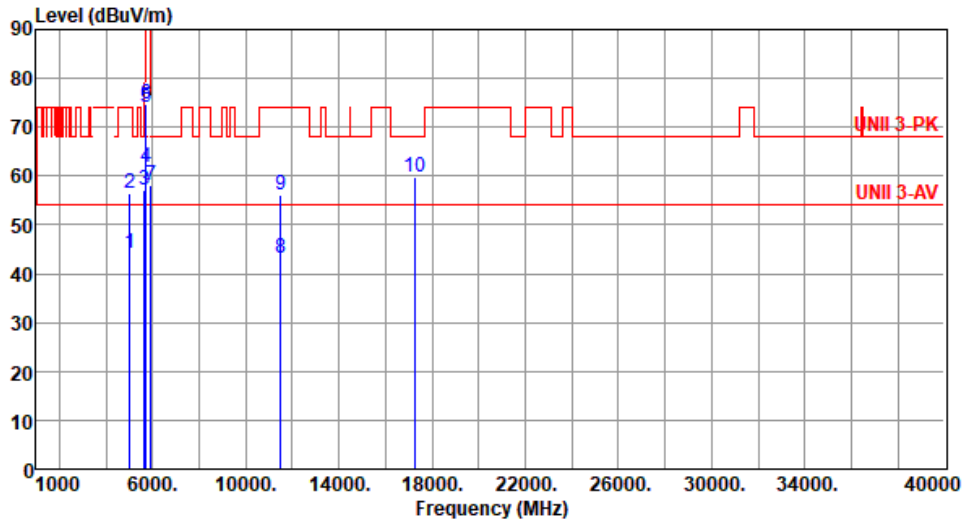
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):62



	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	5030.00	44.31	54.00	-9.69	40.18	4.13	Average	100	332
2	5030.00	56.34	74.00	-17.66	52.21	4.13	Peak	100	332
3	5650.00	57.11	68.20	-11.09	52.30	4.81	Peak	100	332
4	5700.00	61.92	105.20	-43.28	56.90	5.02	Peak	100	332
5	5720.00	74.07	110.80	-36.73	68.93	5.14	Peak	100	332
6	5725.00	74.68	122.20	-47.52	69.51	5.17	Peak	100	332
7	5925.00	58.05	68.20	-10.15	52.44	5.61	Peak	100	332
8	11510.00	43.30	54.00	-10.70	28.90	14.40	Average	100	2
9	11510.00	56.16	74.00	-17.84	41.76	14.40	Peak	100	2
10	17265.00	59.72	68.20	-8.48	42.22	17.50	Peak	100	13

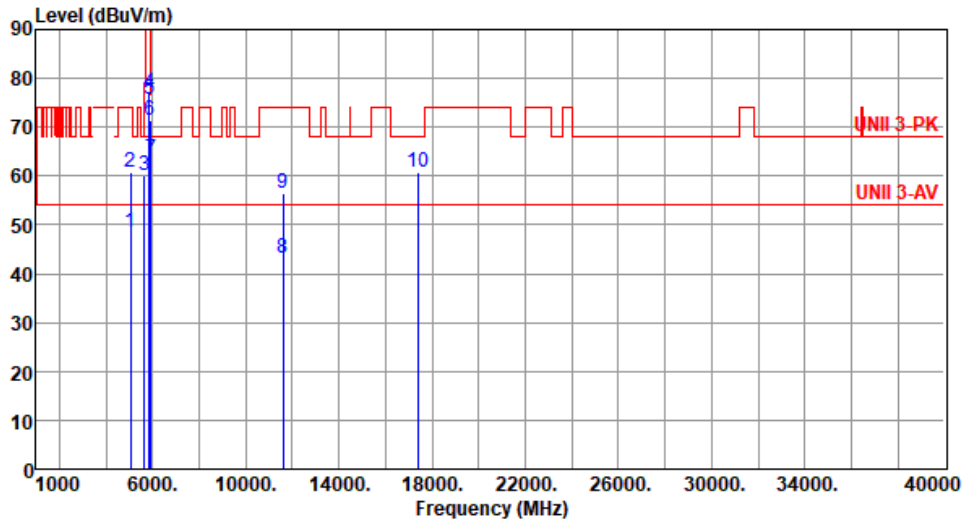
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	5070.00	48.45	54.00	-5.55	44.03	4.42	Average	154	180
2	5070.00	60.67	74.00	-13.33	56.25	4.42	Peak	154	180
3	5650.00	60.09	68.20	-8.11	55.28	4.81	Peak	129	202
4	5850.00	77.07	122.20	-45.13	71.42	5.65	Peak	129	202
5	5855.00	75.79	110.80	-35.01	70.14	5.65	Peak	129	202
6	5875.00	71.27	105.20	-33.93	65.61	5.66	Peak	129	202
7	5925.00	63.58	68.20	-4.62	57.97	5.61	Peak	129	202
8	11590.00	43.29	54.00	-10.71	29.10	14.19	Average	100	35
9	11590.00	56.30	74.00	-17.70	42.11	14.19	Peak	100	35
10	17385.00	60.75	68.20	-7.45	42.62	18.13	Peak	100	37

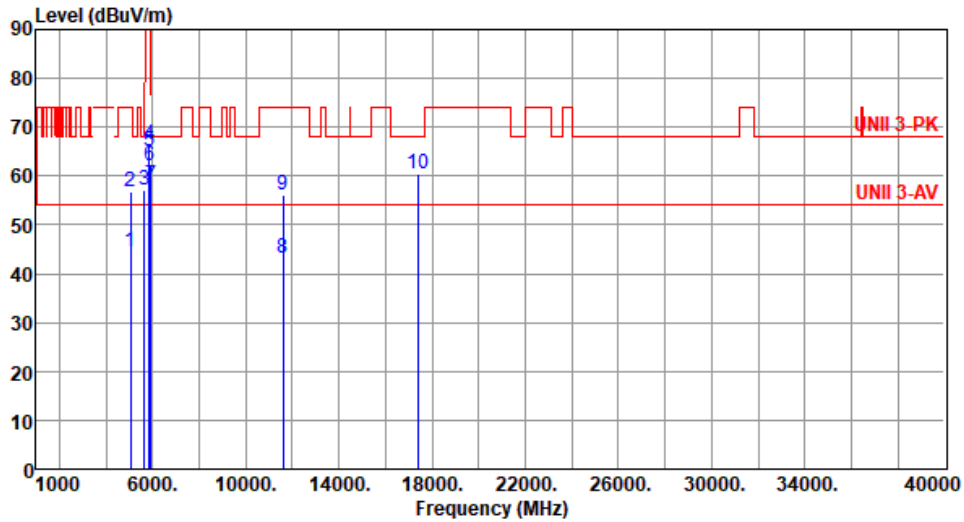
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



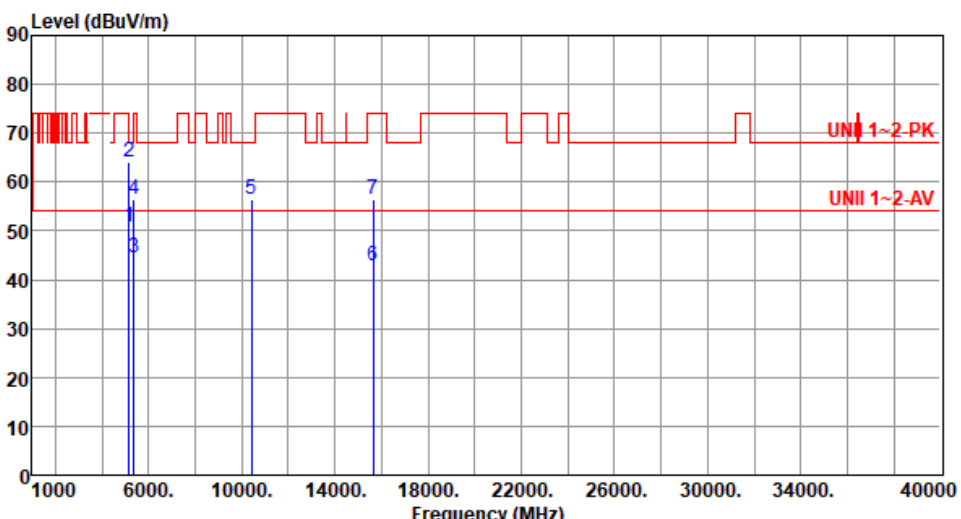
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5070.00	44.61	54.00	-9.39	40.19	4.42	Average	100	339
2	5070.00	56.79	74.00	-17.21	52.37	4.42	Peak	100	339
3	5650.00	57.02	68.20	-11.18	52.21	4.81	Peak	100	339
4	5850.00	66.41	122.20	-55.79	60.76	5.65	Peak	100	339
5	5855.00	65.06	110.80	-45.74	59.41	5.65	Peak	100	339
6	5875.00	62.15	105.20	-43.05	56.49	5.66	Peak	100	339
7	5925.00	58.20	68.20	-10.00	52.59	5.61	Peak	100	339
8	11590.00	43.12	54.00	-10.88	28.93	14.19	Average	100	2
9	11590.00	56.08	74.00	-17.92	41.89	14.19	Peak	100	2
10	17385.00	60.46	68.20	-7.74	42.33	18.13	Peak	100	9

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).

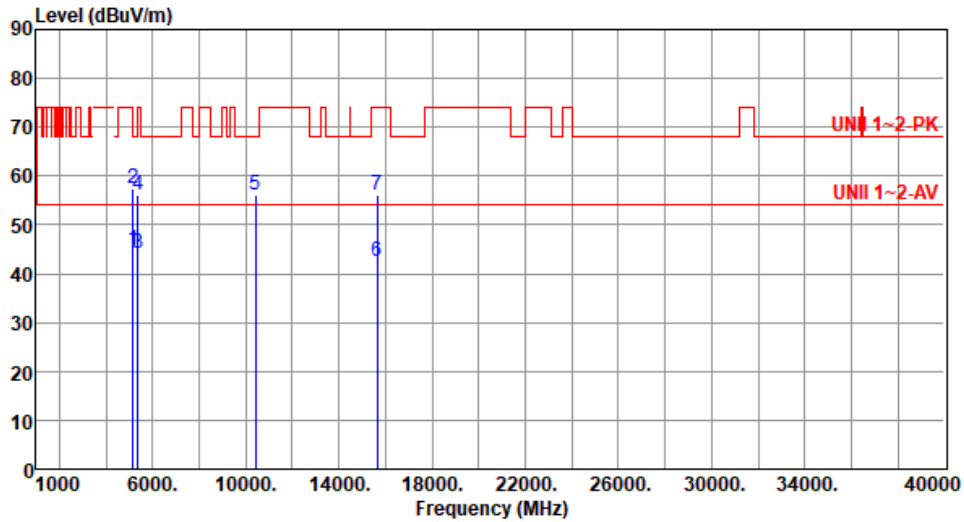
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210						
Polarization	Horizontal								
Test By : Roger Lu Temperature(°C):24 Humidity(%):62									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	50.89	54.00	-3.11	45.88	5.01	Average	144	192
2	5150.00	64.00	74.00	-10.00	58.99	5.01	Peak	144	192
3	5350.00	44.44	54.00	-9.56	40.02	4.42	Average	144	192
4	5350.00	56.47	74.00	-17.53	52.05	4.42	Peak	144	192
5	10420.00	56.40	68.20	-11.80	42.04	14.36	Peak	100	35
6	15630.00	42.73	54.00	-11.27	29.38	13.35	Average	100	34
7	15630.00	56.32	74.00	-17.68	42.97	13.35	Peak	100	34

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	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.76	54.00	-9.24	39.75	5.01	Average	100	338
2	5150.00	57.46	74.00	-16.54	52.45	5.01	Peak	100	338
3	5350.00	44.09	54.00	-9.91	39.67	4.42	Average	100	338
4	5350.00	55.98	74.00	-18.02	51.56	4.42	Peak	100	338
5	10420.00	56.18	68.20	-12.02	41.82	14.36	Peak	100	2
6	15630.00	42.51	54.00	-11.49	29.16	13.35	Average	100	6
7	15630.00	56.12	74.00	-17.88	42.77	13.35	Peak	100	6

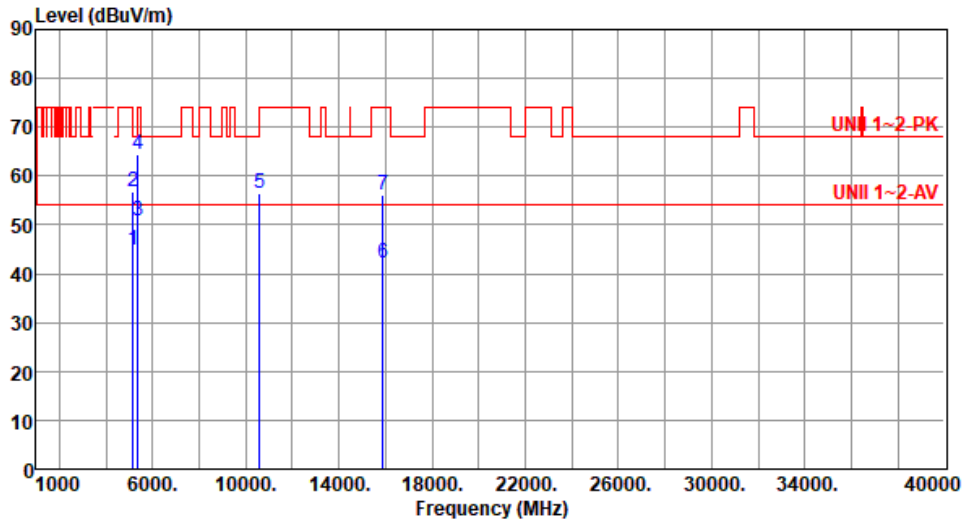
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.80	54.00	-9.20	39.79	5.01	Average	129	202
2	5150.00	56.88	74.00	-17.12	51.87	5.01	Peak	129	202
3	5350.00	50.93	54.00	-3.07	46.51	4.42	Average	129	202
4	5350.00	64.44	74.00	-9.56	60.02	4.42	Peak	129	202
5	10580.00	56.36	68.20	-11.84	41.98	14.38	Peak	100	37
6	15870.00	42.34	54.00	-11.66	28.79	13.55	Average	100	34
7	15870.00	56.00	74.00	-18.00	42.45	13.55	Peak	100	34

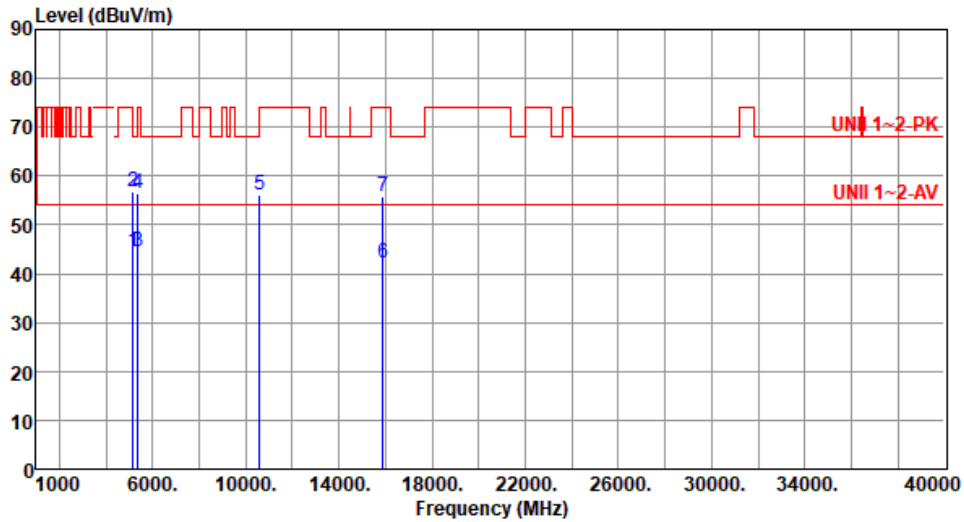
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.44	54.00	-9.56	39.43	5.01	Average	100	334
2	5150.00	56.66	74.00	-17.34	51.65	5.01	Peak	100	334
3	5350.00	44.38	54.00	-9.62	39.96	4.42	Average	100	334
4	5350.00	56.33	74.00	-17.67	51.91	4.42	Peak	100	334
5	10580.00	56.02	68.20	-12.18	41.64	14.38	Peak	100	15
6	15870.00	42.14	54.00	-11.86	28.59	13.55	Average	100	12
7	15870.00	55.77	74.00	-18.23	42.22	13.55	Peak	100	12

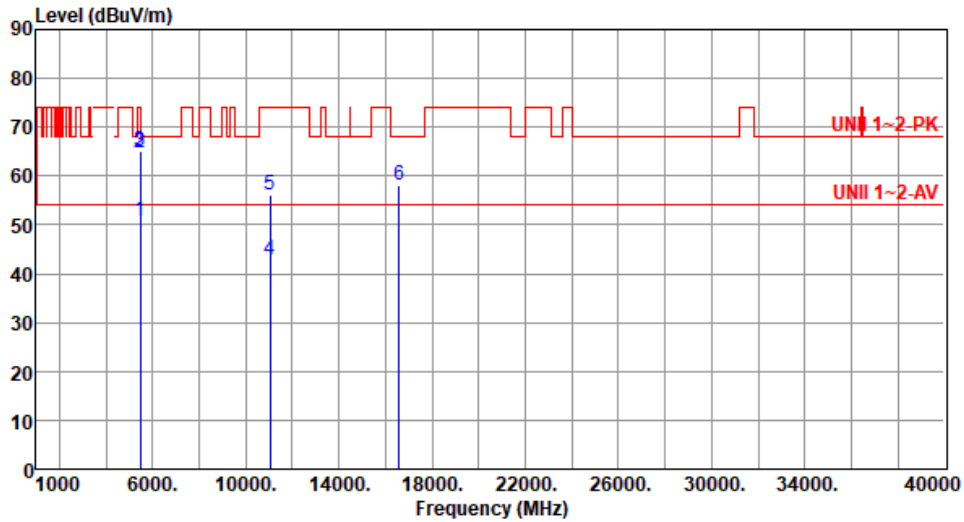
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	50.83	54.00	-3.17	46.16	4.67	Average	127	198
2	5460.00	64.86	74.00	-9.14	60.19	4.67	Peak	127	198
3	5470.00	65.16	68.20	-3.04	60.46	4.70	Peak	127	198
4	11060.00	42.78	54.00	-11.22	28.39	14.39	Average	100	39
5	11060.00	56.18	74.00	-17.82	41.79	14.39	Peak	100	39
6	16590.00	57.97	68.20	-10.23	41.93	16.04	Peak	100	40

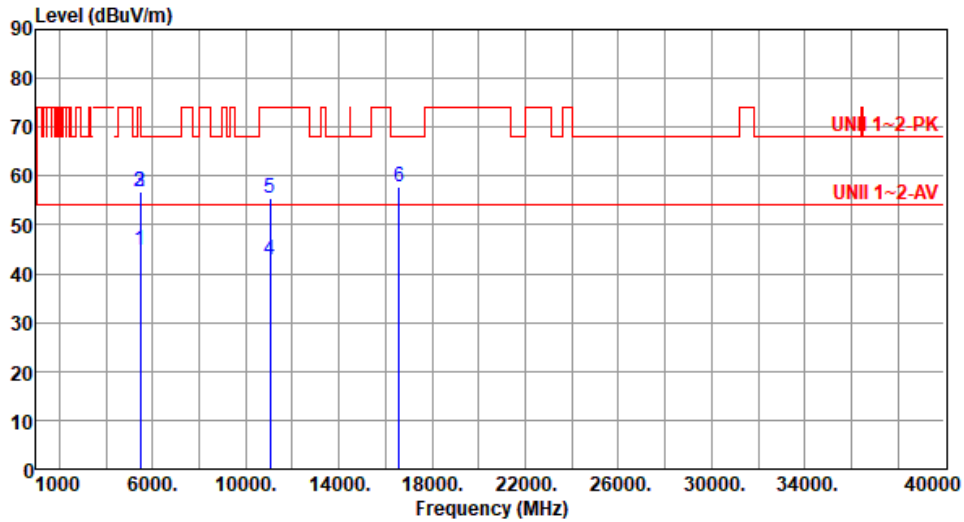
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.72	54.00	-9.28	40.05	4.67	Average	100	342
2	5460.00	56.85	74.00	-17.15	52.18	4.67	Peak	100	342
3	5470.00	56.87	68.20	-11.33	52.17	4.70	Peak	100	342
4	11060.00	42.68	54.00	-11.32	28.29	14.39	Average	100	14
5	11060.00	55.56	74.00	-18.44	41.17	14.39	Peak	100	14
6	16590.00	57.64	68.20	-10.56	41.60	16.04	Peak	100	2

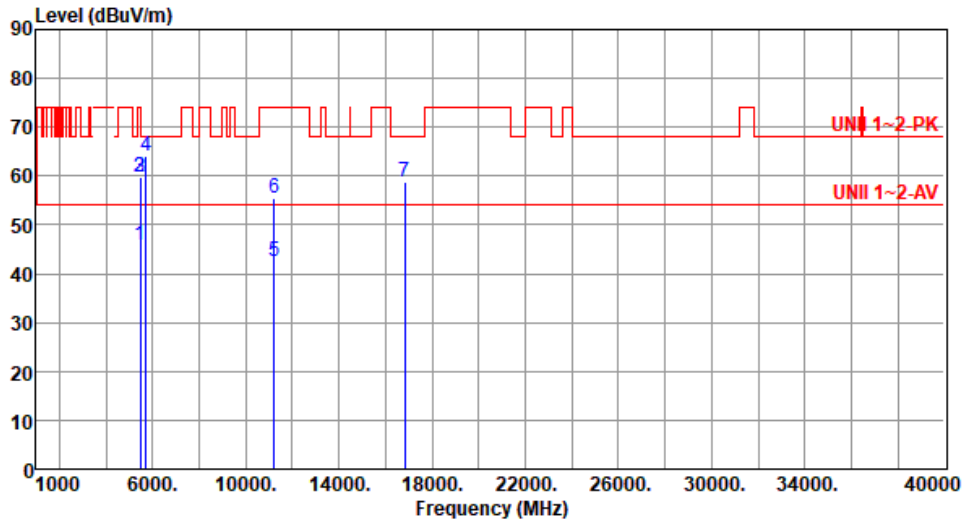
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):22 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	5460.00	45.80	54.00	-8.20	41.13	4.67	Average	125	192
2	5460.00	59.69	74.00	-14.31	55.02	4.67	Peak	125	192
3	5470.00	59.91	68.20	-8.29	55.21	4.70	Peak	125	192
4	5725.00	64.20	68.20	-4.00	59.03	5.17	Peak	125	192
5	11220.00	42.36	54.00	-11.64	28.54	13.82	Average	100	32
6	11220.00	55.47	74.00	-18.53	41.65	13.82	Peak	100	32
7	16830.00	58.71	68.20	-9.49	41.25	17.46	Peak	100	35

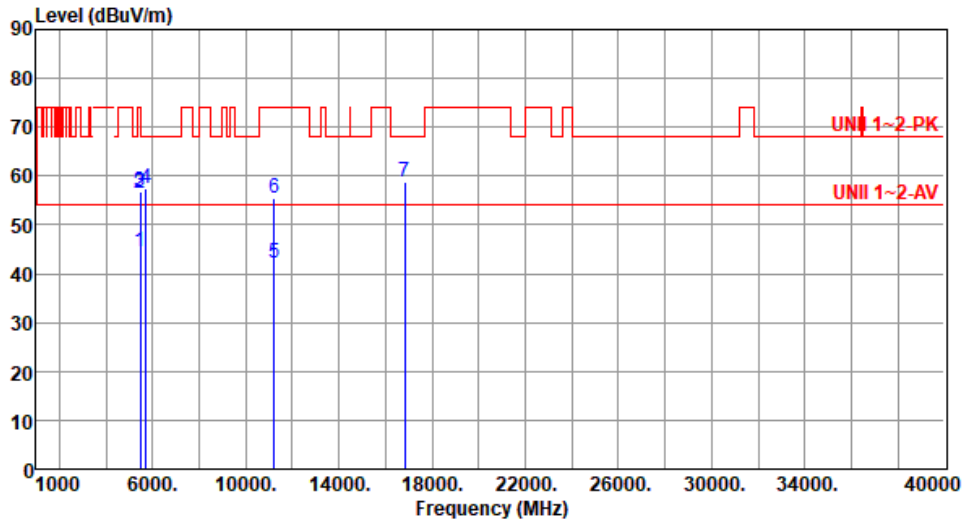
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):22 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	5460.00	44.55	54.00	-9.45	39.88	4.67	Average	100	343
2	5460.00	56.52	74.00	-17.48	51.85	4.67	Peak	100	343
3	5470.00	56.89	68.20	-11.31	52.19	4.70	Peak	100	343
4	5725.00	57.60	68.20	-10.60	52.43	5.17	Peak	100	343
5	11220.00	42.14	54.00	-11.86	28.32	13.82	Average	100	4
6	11220.00	55.45	74.00	-18.55	41.63	13.82	Peak	100	4
7	16830.00	58.74	68.20	-9.46	41.28	17.46	Peak	100	3

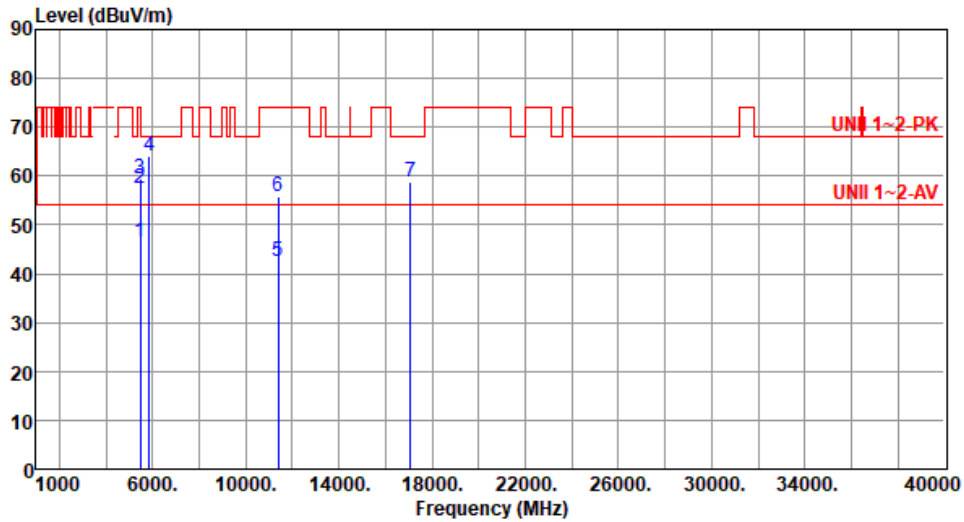
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	46.40	54.00	-7.60	41.73	4.67	Average	128	198
2	5460.00	57.41	74.00	-16.59	52.74	4.67	Peak	128	198
3	5470.00	59.52	68.20	-8.68	54.82	4.70	Peak	128	198
4	5850.00	64.06	68.20	-4.14	58.41	5.65	Peak	128	198
5	11380.00	42.52	54.00	-11.48	28.43	14.09	Average	100	34
6	11380.00	55.64	74.00	-18.36	41.55	14.09	Peak	100	34
7	17070.00	58.73	68.20	-9.47	41.36	17.37	Peak	100	35

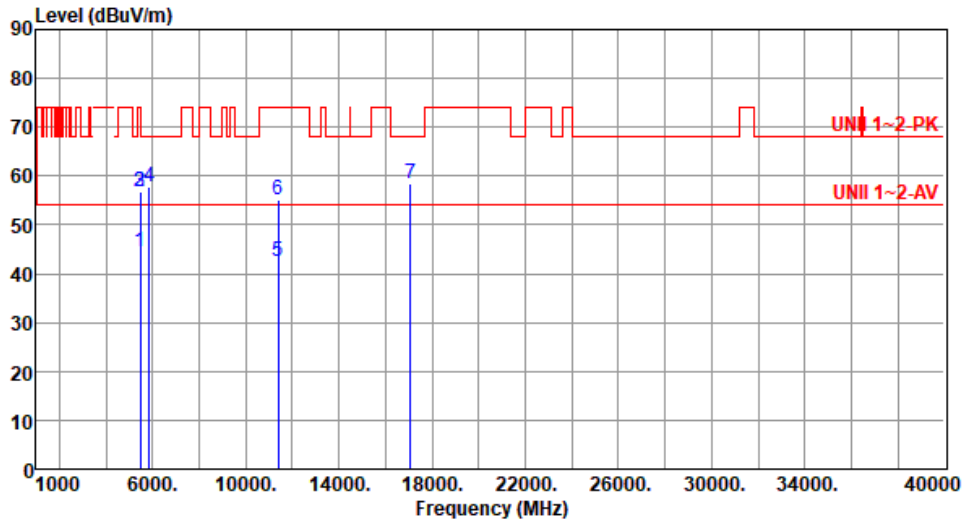
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	44.67	54.00	-9.33	40.00	4.67	Average	100	346
2	5460.00	56.84	74.00	-17.16	52.17	4.67	Peak	100	346
3	5470.00	56.92	68.20	-11.28	52.22	4.70	Peak	100	346
4	5850.00	57.82	68.20	-10.38	52.17	5.65	Peak	100	346
5	11380.00	42.38	54.00	-11.62	28.29	14.09	Average	100	3
6	11380.00	55.23	74.00	-18.77	41.14	14.09	Peak	100	3
7	17070.00	58.39	68.20	-9.81	41.02	17.37	Peak	100	5

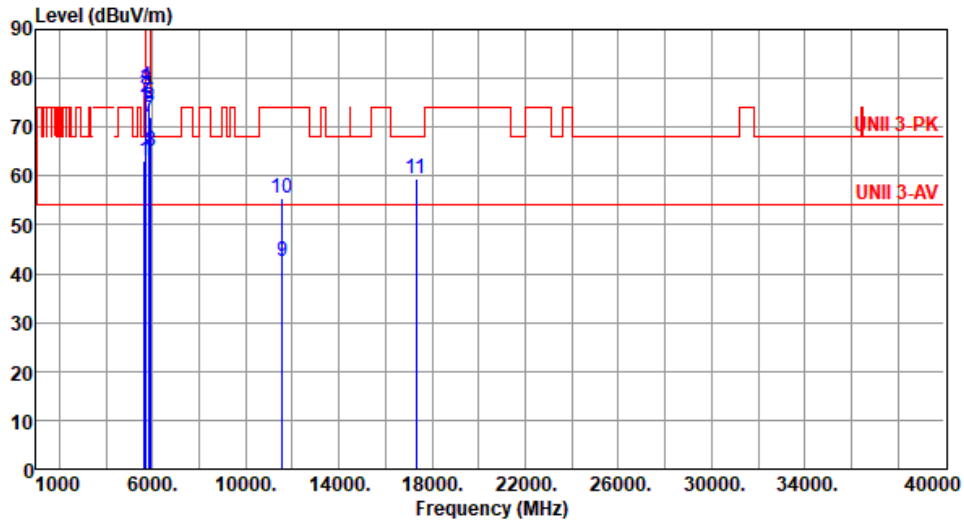
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	63.24	68.20	-4.96	58.43	4.81	Peak	123	194
2	5700.00	75.94	105.20	-29.26	70.92	5.02	Peak	123	194
3	5720.00	77.87	110.80	-32.93	72.73	5.14	Peak	123	194
4	5725.00	78.32	122.20	-43.88	73.15	5.17	Peak	123	194
5	5850.00	75.08	122.20	-47.12	69.43	5.65	Peak	123	194
6	5855.00	74.01	110.80	-36.79	68.36	5.65	Peak	123	194
7	5875.00	72.16	105.20	-33.04	66.50	5.66	Peak	123	194
8	5925.00	65.18	68.20	-3.02	59.57	5.61	Peak	123	194
9	11550.00	42.42	54.00	-11.58	28.12	14.30	Average	100	33
10	11550.00	55.63	74.00	-18.37	41.33	14.30	Peak	100	33
11	17325.00	59.38	68.20	-8.82	41.67	17.71	Peak	100	25

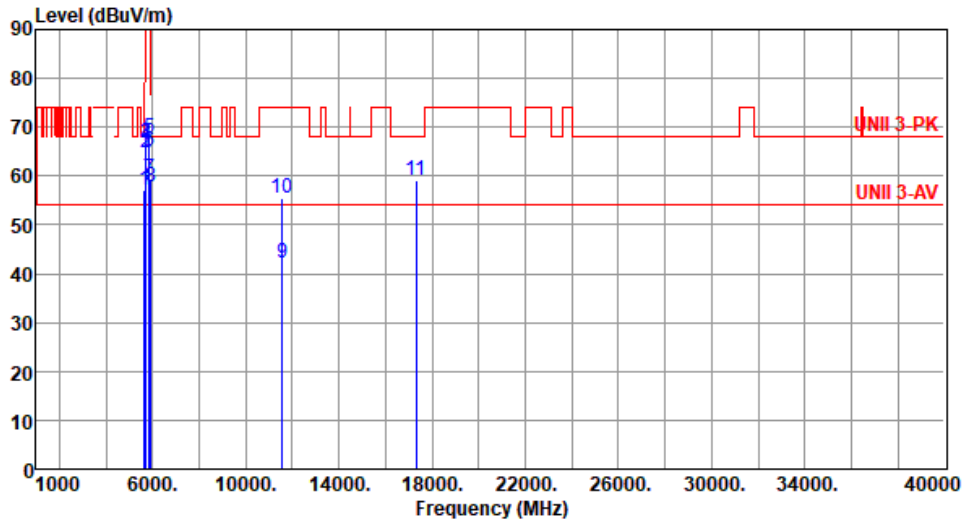
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):24 Humidity(%):62



	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	100	348
2	5700.00	64.89	105.20	-40.31	59.87	5.02	Peak	100	348
3	5720.00	66.88	110.80	-43.92	61.74	5.14	Peak	100	348
4	5725.00	66.35	122.20	-55.85	61.18	5.17	Peak	100	348
5	5850.00	67.71	122.20	-54.49	62.06	5.65	Peak	100	348
6	5855.00	65.21	110.80	-45.59	59.56	5.65	Peak	100	348
7	5875.00	59.55	105.20	-45.65	53.89	5.66	Peak	100	348
8	5925.00	57.94	68.20	-10.26	52.33	5.61	Peak	100	348
9	11550.00	42.30	54.00	-11.70	28.00	14.30	Average	100	1
10	11550.00	55.36	74.00	-18.64	41.06	14.30	Peak	100	1
11	17325.00	59.05	68.20	-9.15	41.34	17.71	Peak	100	3

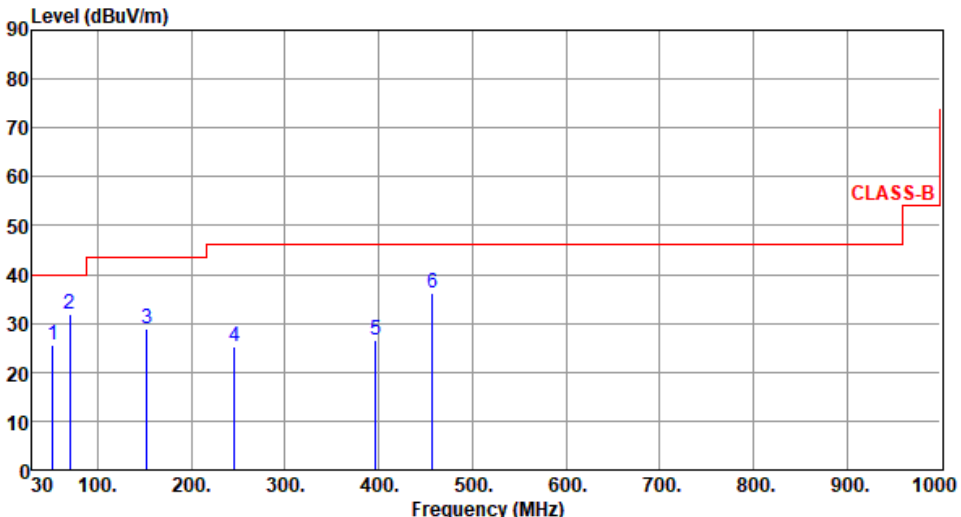
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

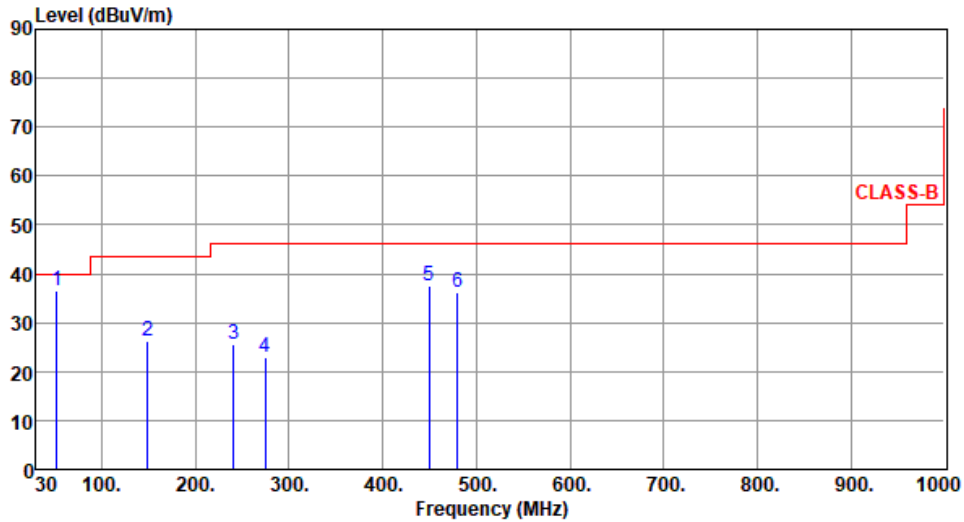
Configuration 2

3.5.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5300						
Polarization	Horizontal								
Test By	:Brad Wu	Temperature(°C):23	Humidity(%):64						
 <p>The graph displays the radiated unwanted emissions for a Class B transmitter. The y-axis represents the emission level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz, ranging from 30 to 1000. A red line indicates the Class B limit, which is constant at 40 dBuV/m from 30 MHz to 100 MHz, then steps up to 45 dBuV/m from 100 MHz to 1000 MHz. Six specific emission peaks are identified and labeled with numbers 1 through 6. Peak 1 is at 52.31 MHz, peak 2 at 69.77 MHz, peak 3 at 152.22 MHz, peak 4 at 246.31 MHz, peak 5 at 396.66 MHz, and peak 6 at 457.77 MHz. All peaks are well below the Class B limit.</p>									
	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	52.31	25.72	40.00	-14.28	34.48	-8.76	Peak	---	---
2	69.77	31.76	40.00	-8.24	42.62	-10.86	Peak	---	---
3	152.22	29.03	43.50	-14.47	37.84	-8.81	Peak	---	---
4	246.31	25.09	46.00	-20.91	35.23	-10.14	Peak	---	---
5	396.66	26.45	46.00	-19.55	32.31	-5.86	Peak	---	---
6	457.77	36.27	46.00	-9.73	40.39	-4.12	Peak	---	---
<p>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.</p>									

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	52.31	36.65	40.00	-3.35	45.41	-8.76	Peak	---	---
2	149.31	26.13	43.50	-17.37	35.18	-9.05	Peak	---	---
3	240.49	25.47	46.00	-20.53	35.83	-10.36	Peak	---	---
4	274.44	22.99	46.00	-23.01	31.90	-8.91	Peak	---	---
5	450.01	37.46	46.00	-8.54	41.70	-4.24	Peak	---	---
6	480.08	36.22	46.00	-9.78	39.97	-3.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

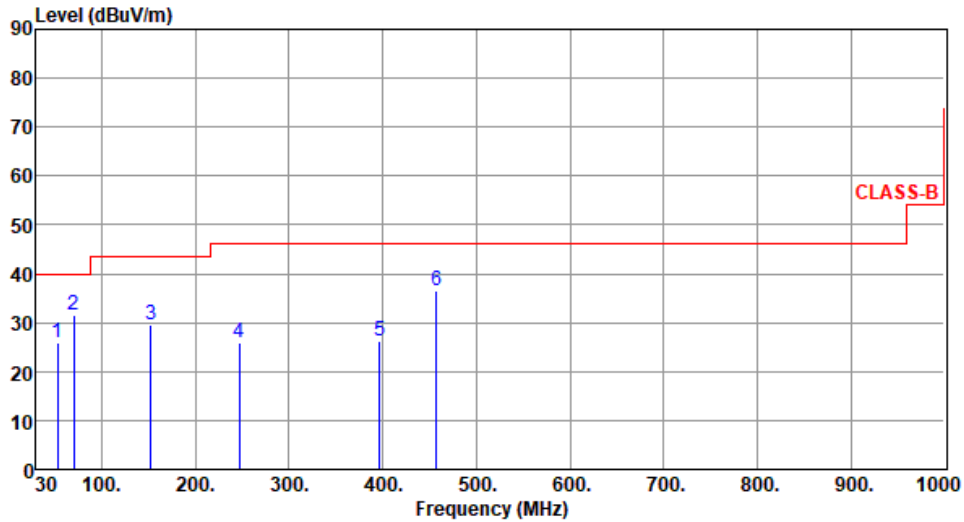
*Factor includes antenna factor , cable loss and amplifier gain

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	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	52.48	25.91	40.00	-14.09	34.65	-8.74	Peak	---	---
2	70.16	31.44	40.00	-8.56	42.39	-10.95	Peak	---	---
3	152.48	29.62	43.50	-13.88	38.43	-8.81	Peak	---	---
4	246.56	25.88	46.00	-20.12	36.02	-10.14	Peak	---	---
5	396.41	26.09	46.00	-19.91	31.95	-5.86	Peak	---	---
6	457.82	36.44	46.00	-9.56	40.56	-4.12	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

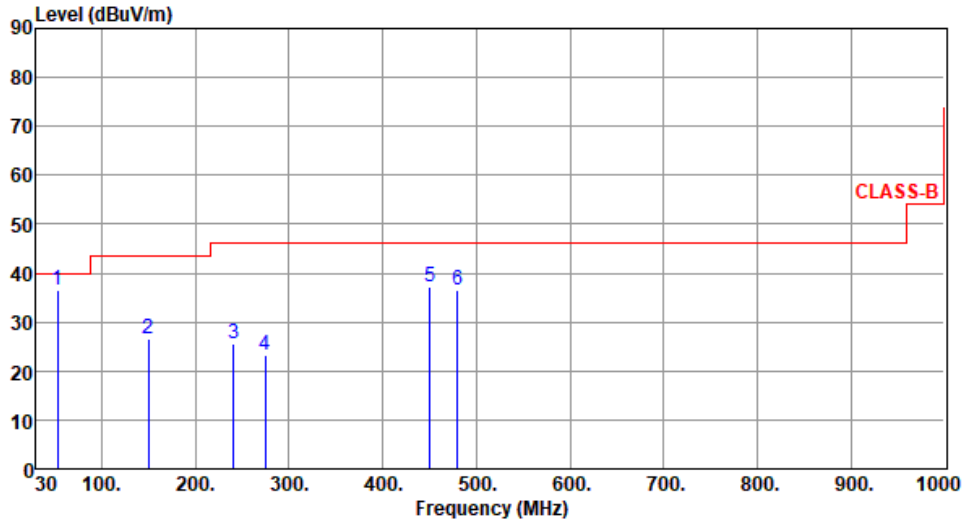
*Factor includes antenna factor , cable loss and amplifier gain

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	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	52.48	36.51	40.00	-3.49	45.25	-8.74	Peak	---	---
2	149.51	26.42	43.50	-17.08	35.43	-9.01	Peak	---	---
3	240.52	25.59	46.00	-20.41	35.95	-10.36	Peak	---	---
4	274.58	23.41	46.00	-22.59	32.32	-8.91	Peak	---	---
5	450.14	37.22	46.00	-8.78	41.46	-4.24	Peak	---	---
6	480.21	36.59	46.00	-9.41	40.34	-3.75	Peak	---	---

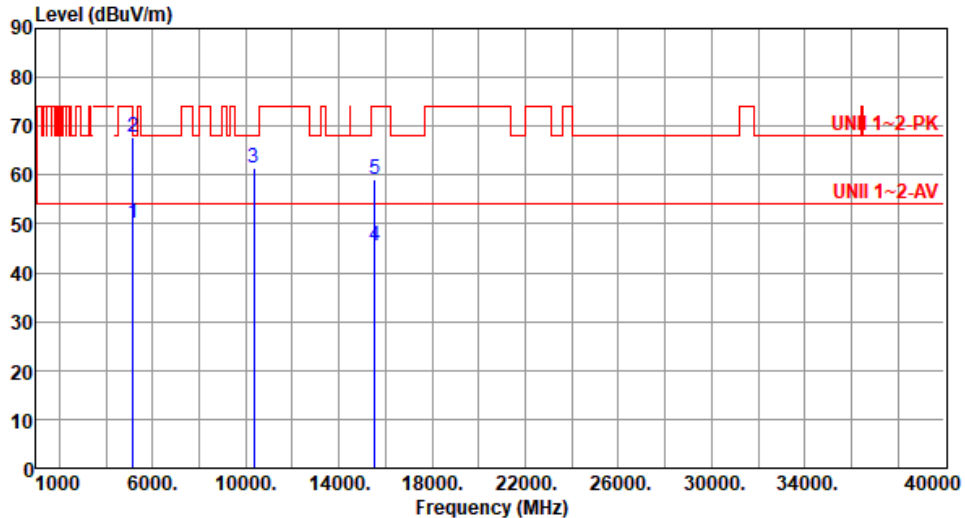
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

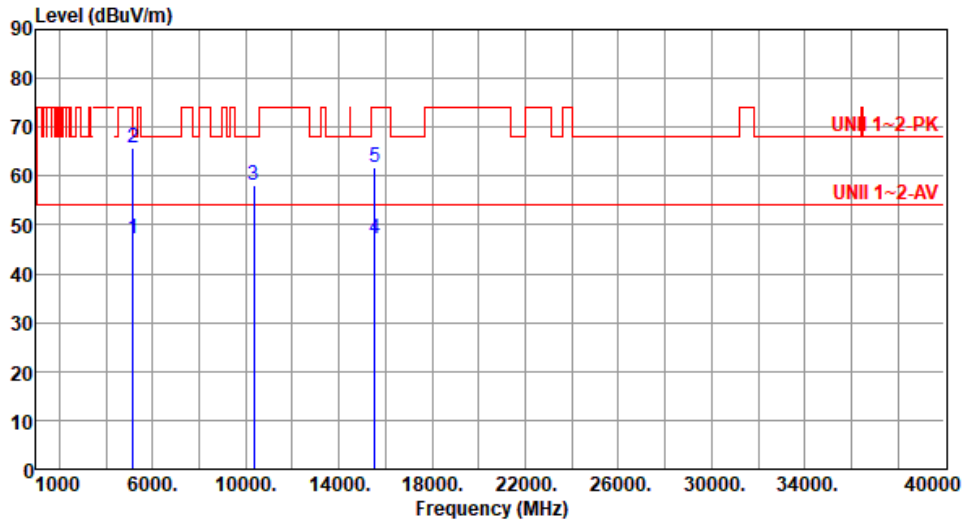
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By : Roger Lu Temperature(°C):23 Humidity(%):64									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	50.22	54.00	-3.78	45.21	5.01	Average	100	335
2	5150.00	67.82	74.00	-6.18	62.81	5.01	Peak	100	335
3	10360.00	61.56	68.20	-6.64	47.35	14.21	Peak	345	33
4	15540.00	45.40	54.00	-8.60	31.76	13.64	Average	342	35
5	15540.00	59.06	74.00	-14.94	45.42	13.64	Peak	342	35
<p>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).</p>									

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

Test By :Roger Lu Temperature(°C):23 Humidity(%):64



	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	47.07	54.00	-6.93	42.06	5.01	Average	164	87
2	5150.00	65.80	74.00	-8.20	60.79	5.01	Peak	164	87
3	10360.00	58.22	68.20	-9.98	44.01	14.21	Peak	350	25
4	15540.00	47.30	54.00	-6.70	33.66	13.64	Average	179	22
5	15540.00	61.77	74.00	-12.23	48.13	13.64	Peak	179	22

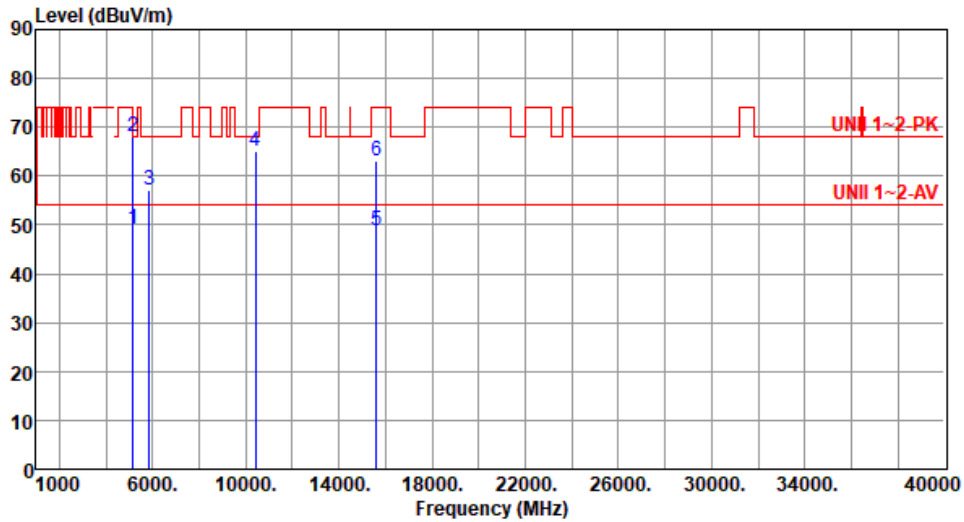
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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(°C):23 Humidity(%):64



	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	49.01	54.00	-4.99	44.00	5.01	Average	119	308
2	5150.00	68.03	74.00	-5.97	63.02	5.01	Peak	119	308
3	5850.00	57.27	68.20	-10.93	51.62	5.65	Peak	119	308
4	10400.00	64.98	68.20	-3.22	50.65	14.33	Peak	347	38
5	15600.00	48.85	54.00	-5.15	35.52	13.33	Average	330	26
6	15600.00	63.09	74.00	-10.91	49.76	13.33	Peak	330	26

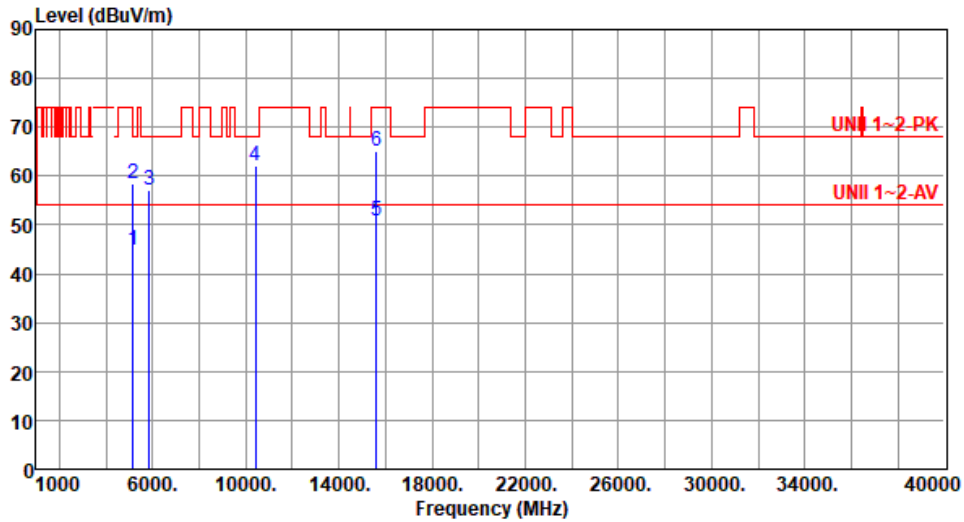
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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(°C):23 Humidity(%):64

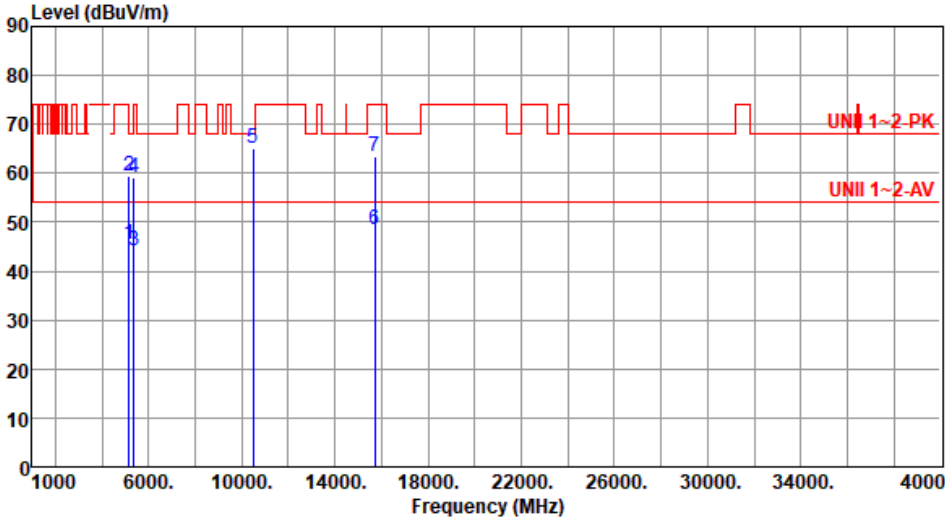


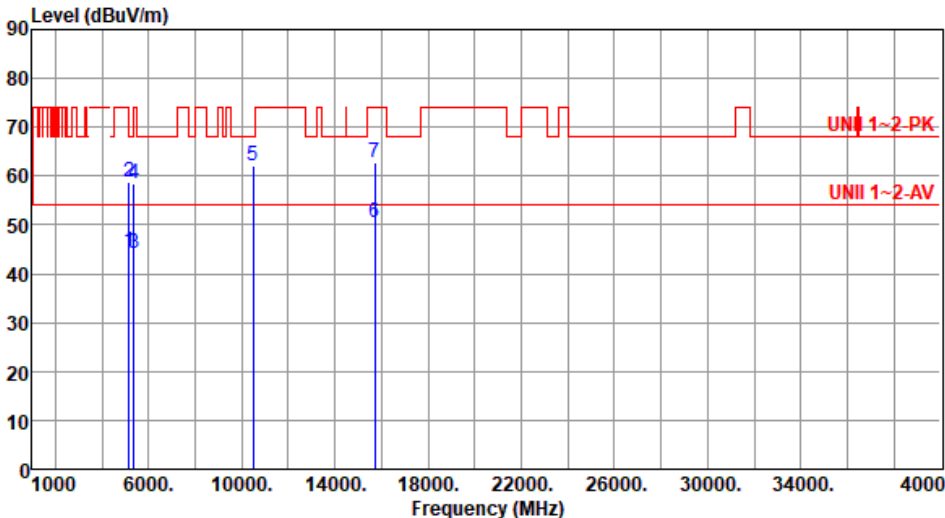
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.89	54.00	-9.11	39.88	5.01	Average	165	91
2	5150.00	58.42	74.00	-15.58	53.41	5.01	Peak	165	91
3	5850.00	57.15	68.20	-11.05	51.50	5.65	Peak	165	91
4	10400.00	61.94	68.20	-6.26	47.61	14.33	Peak	100	46
5	15600.00	50.94	54.00	-3.06	37.61	13.33	Average	174	27
6	15600.00	65.11	74.00	-8.89	51.78	13.33	Peak	174	27

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

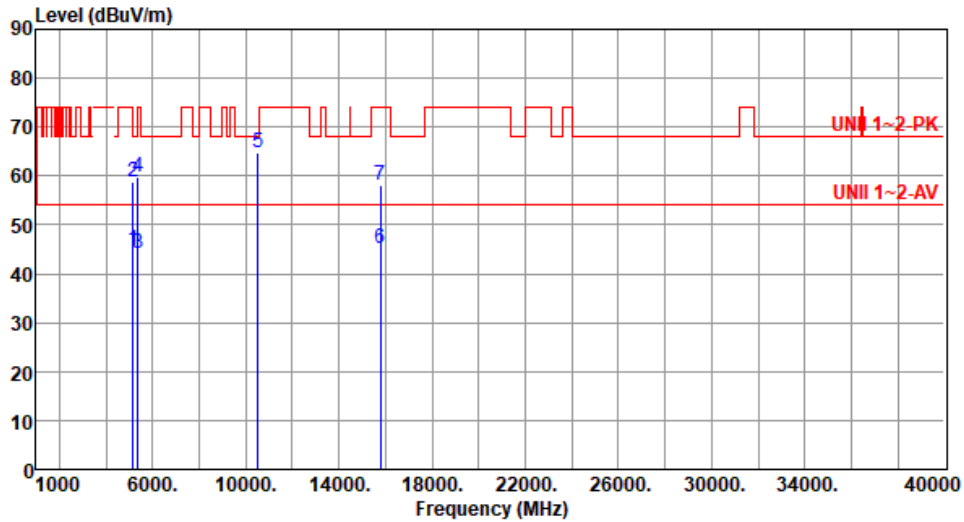
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5240						
Polarization	Horizontal								
Test By	:Roger Lu	Temperature(°C):23	Humidity(%) :64						
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	45.37	54.00	-8.63	40.36	5.01	Average	114	316
2	5150.00	59.40	74.00	-14.60	54.39	5.01	Peak	114	316
3	5350.00	44.17	54.00	-9.83	39.75	4.42	Average	114	316
4	5350.00	59.00	74.00	-15.00	54.58	4.42	Peak	114	316
5	10480.00	65.13	68.20	-3.07	50.67	14.46	Peak	377	55
6	15720.00	48.54	54.00	-5.46	35.12	13.42	Average	335	28
7	15720.00	63.54	74.00	-10.46	50.12	13.42	Peak	335	28
<p>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).</p>									

Modulation	11a	Test Freq. (MHz)	5240						
Polarization	Vertical								
Test By : Roger Lu		Temperature(°C): 23	Humidity(%): 64						
									
	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	44.43	54.00	-9.57	39.42	5.01	Average	158	85
2	5150.00	58.79	74.00	-15.21	53.78	5.01	Peak	158	85
3	5350.00	44.08	54.00	-9.92	39.66	4.42	Average	158	85
4	5350.00	58.48	74.00	-15.52	54.06	4.42	Peak	158	85
5	10480.00	62.10	68.20	-6.10	47.64	14.46	Peak	347	36
6	15720.00	50.49	54.00	-3.51	37.07	13.42	Average	174	27
7	15720.00	62.87	74.00	-11.13	49.45	13.42	Peak	174	27
<p>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).</p>									

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

Test By :Brad Wu Temperature(°C):23 Humidity(%):64

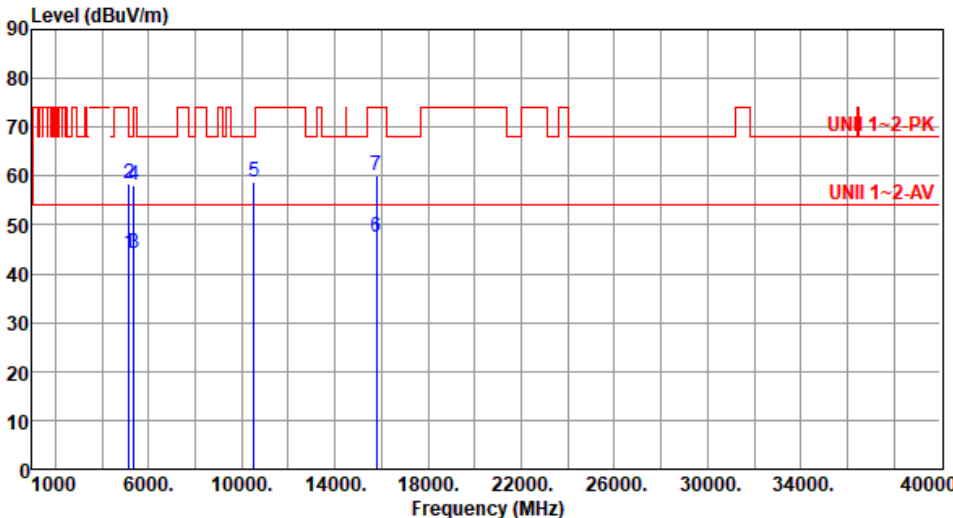


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.93	54.00	-9.07	39.92	5.01	Average	108	315
2	5150.00	58.66	74.00	-15.34	53.65	5.01	Peak	108	315
3	5350.00	44.22	54.00	-9.78	39.80	4.42	Average	108	315
4	5350.00	59.73	74.00	-14.27	55.31	4.42	Peak	108	315
5	10520.00	64.92	68.20	-3.28	50.45	14.47	Peak	164	19
6	15780.00	45.03	54.00	-8.97	31.55	13.48	Average	100	15
7	15780.00	58.03	74.00	-15.97	44.55	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

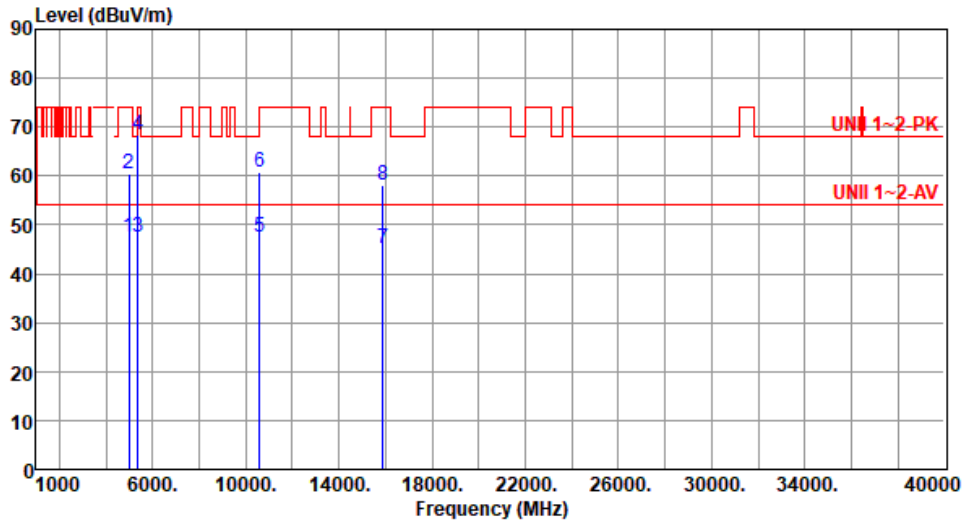
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):64									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	44.32	54.00	-9.68	39.31	5.01	Average	155	82
2	5150.00	58.36	74.00	-15.64	53.35	5.01	Peak	155	82
3	5350.00	44.06	54.00	-9.94	39.64	4.42	Average	155	82
4	5350.00	58.21	74.00	-15.79	53.79	4.42	Peak	155	82
5	10520.00	58.65	68.20	-9.55	44.18	14.47	Peak	100	68
6	15780.00	47.56	54.00	-6.44	34.08	13.48	Average	176	27
7	15780.00	60.17	74.00	-13.83	46.69	13.48	Peak	176	27

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(°C):23 Humidity(%):64

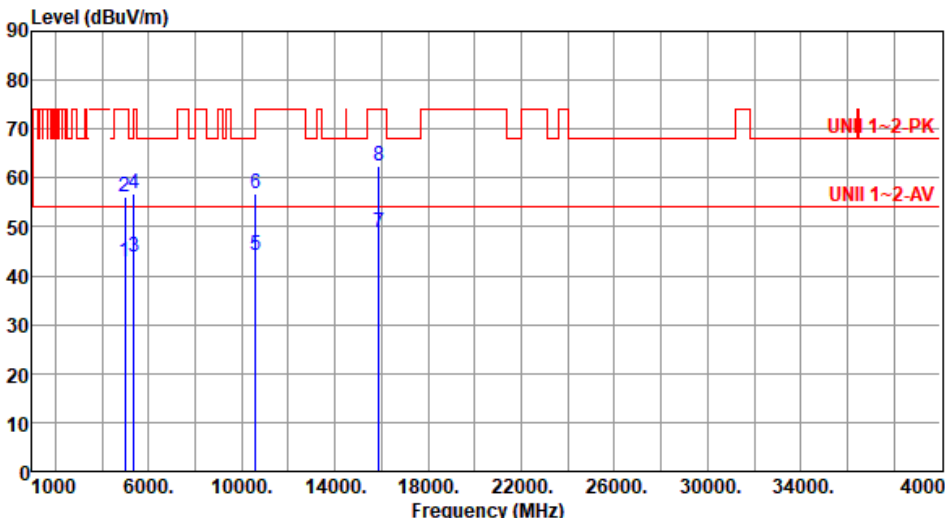


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4970.00	47.64	54.00	-6.36	43.60	4.04	Average	121	312
2	4970.00	60.39	74.00	-13.61	56.35	4.04	Peak	121	312
3	5350.00	47.53	54.00	-6.47	43.11	4.42	Average	117	312
4	5350.00	68.39	74.00	-5.61	63.97	4.42	Peak	117	312
5	10600.00	47.56	54.00	-6.44	33.21	14.35	Average	256	6
6	10600.00	60.83	74.00	-13.17	46.48	14.35	Peak	256	6
7	15900.00	45.06	54.00	-8.94	31.49	13.57	Average	117	20
8	15900.00	58.11	74.00	-15.89	44.54	13.57	Peak	117	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

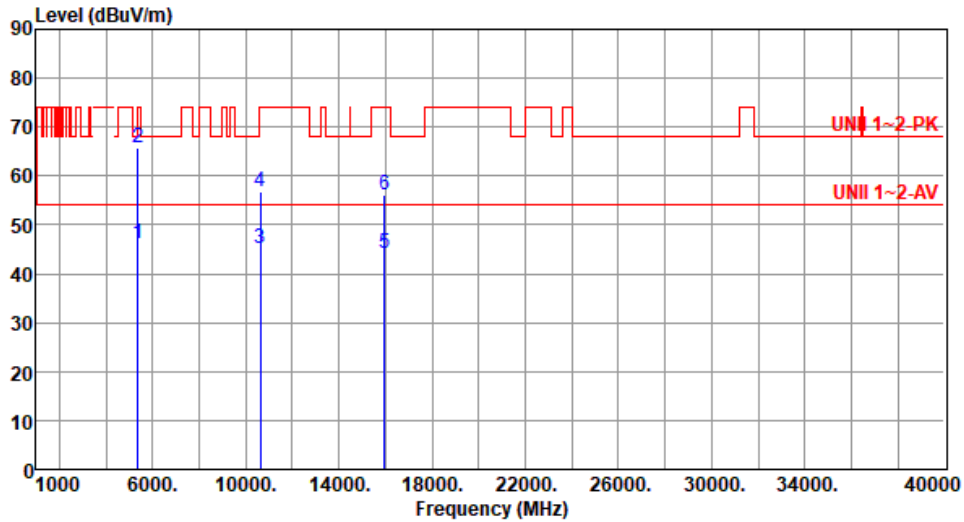
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):23 Humidity(%):64									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	4970.00	42.74	54.00	-11.26	38.70	4.04	Average	151	83
2	4970.00	56.16	74.00	-17.84	52.12	4.04	Peak	151	83
3	5350.00	43.73	54.00	-10.27	39.31	4.42	Average	151	83
4	5350.00	56.63	74.00	-17.37	52.21	4.42	Peak	151	83
5	10600.00	44.32	54.00	-9.68	29.97	14.35	Average	250	43
6	10600.00	56.80	74.00	-17.20	42.45	14.35	Peak	250	43
7	15900.00	48.89	54.00	-5.11	35.32	13.57	Average	188	359
8	15900.00	62.40	74.00	-11.60	48.83	13.57	Peak	188	359

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 :Brad Wu Temperature(°C):23 Humidity(%):64



	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	46.00	54.00	-8.00	41.58	4.42	Average	119	312
2	5350.00	65.92	74.00	-8.08	61.50	4.42	Peak	119	312
3	10640.00	45.26	54.00	-8.74	30.89	14.37	Average	100	5
4	10640.00	56.84	74.00	-17.16	42.47	14.37	Peak	100	5
5	15960.00	44.27	54.00	-9.73	30.59	13.68	Average	100	21
6	15960.00	56.13	74.00	-17.87	42.45	13.68	Peak	100	21

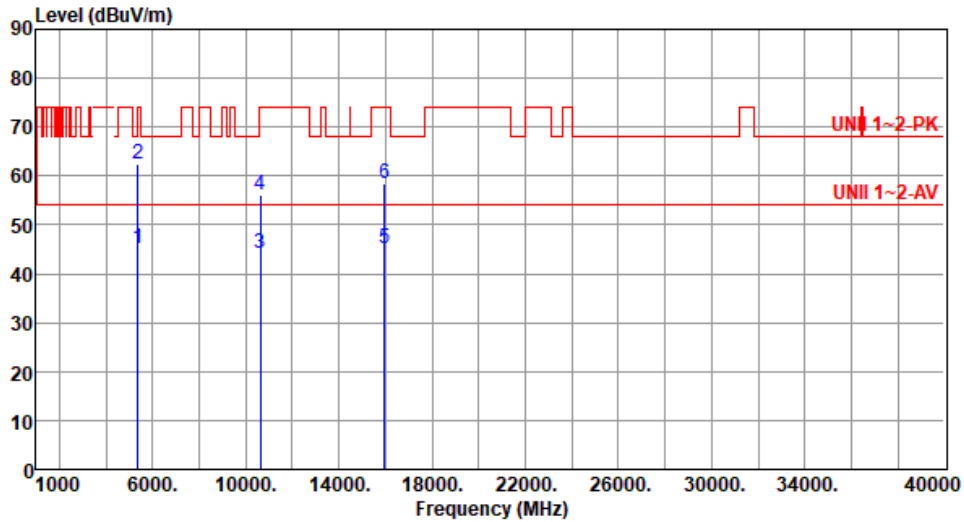
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):23 Humidity(%):64



	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	45.08	54.00	-8.92	40.66	4.42	Average	153	75
2	5350.00	62.40	74.00	-11.60	57.98	4.42	Peak	153	75
3	10640.00	44.15	54.00	-9.85	29.78	14.37	Average	100	35
4	10640.00	56.29	74.00	-17.71	41.92	14.37	Peak	100	35
5	15960.00	45.13	54.00	-8.87	31.45	13.68	Average	155	15
6	15960.00	58.52	74.00	-15.48	44.84	13.68	Peak	155	15

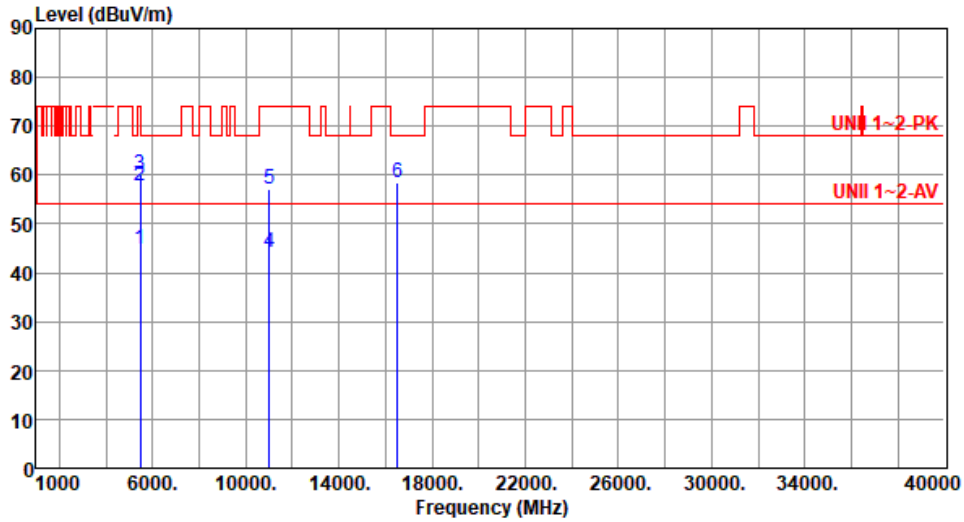
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



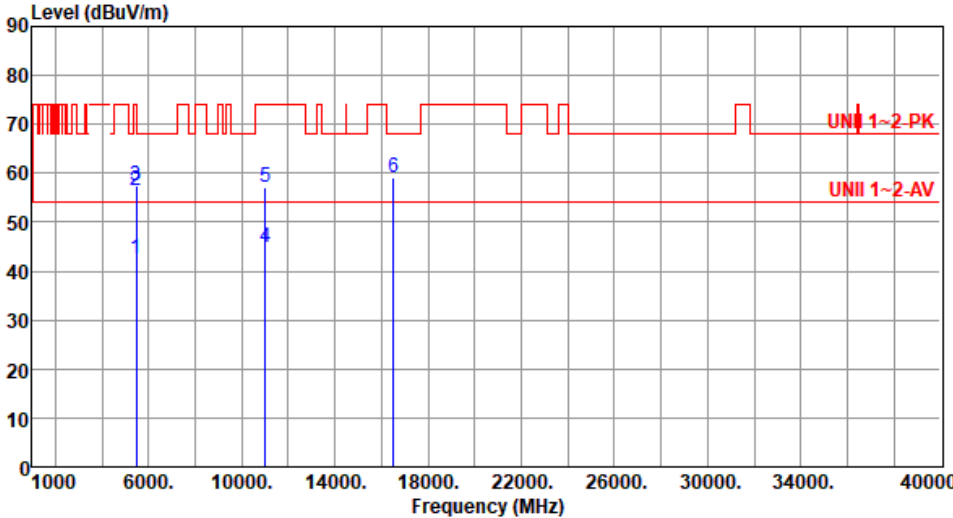
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.86	54.00	-9.14	40.19	4.67	Average	100	312
2	5460.00	57.79	74.00	-16.21	53.12	4.67	Peak	100	312
3	5470.00	60.13	68.20	-8.07	55.43	4.70	Peak	100	312
4	11000.00	44.19	54.00	-9.81	29.54	14.65	Average	100	6
5	11000.00	57.20	74.00	-16.80	42.55	14.65	Peak	100	6
6	16500.00	58.50	68.20	-9.70	42.16	16.34	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	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By	:Brad Wu	Temperature(°C):23	Humidity(%):64

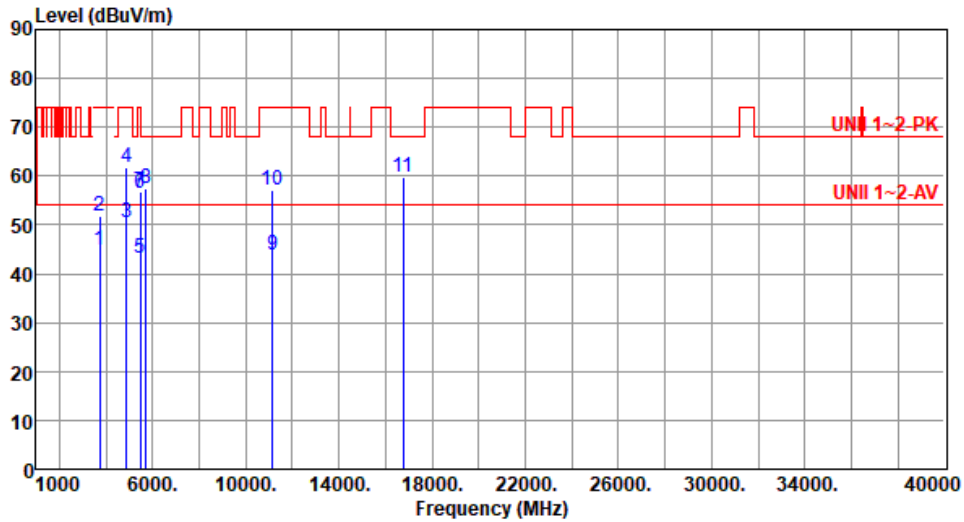


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	42.52	54.00	-11.48	37.85	4.67	Average	155	74
2	5460.00	56.50	74.00	-17.50	51.83	4.67	Peak	155	74
3	5470.00	57.57	68.20	-10.63	52.87	4.70	Peak	155	74
4	11000.00	45.00	54.00	-9.00	30.35	14.65	Average	100	344
5	11000.00	57.08	74.00	-16.92	42.43	14.65	Peak	100	344
6	16500.00	59.03	68.20	-9.17	42.69	16.34	Peak	100	342

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(°C):23 Humidity(%):64



	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	3720.00	44.85	54.00	-9.15	44.09	0.76	Average	152	347
2	3720.00	51.93	74.00	-22.07	51.17	0.76	Peak	152	347
3	4880.00	50.33	54.00	-3.67	46.21	4.12	Average	111	309
4	4880.00	61.66	74.00	-12.34	57.54	4.12	Peak	111	309
5	5460.00	43.21	54.00	-10.79	38.54	4.67	Average	105	310
6	5460.00	56.36	74.00	-17.64	51.69	4.67	Peak	105	310
7	5470.00	56.88	68.20	-11.32	52.18	4.70	Peak	105	310
8	5725.00	57.61	68.20	-10.59	52.44	5.17	Peak	105	310
9	11160.00	43.97	54.00	-10.03	30.00	13.97	Average	100	344
10	11160.00	57.00	74.00	-17.00	43.03	13.97	Peak	100	344
11	16740.00	59.80	68.20	-8.40	42.63	17.17	Peak	100	60

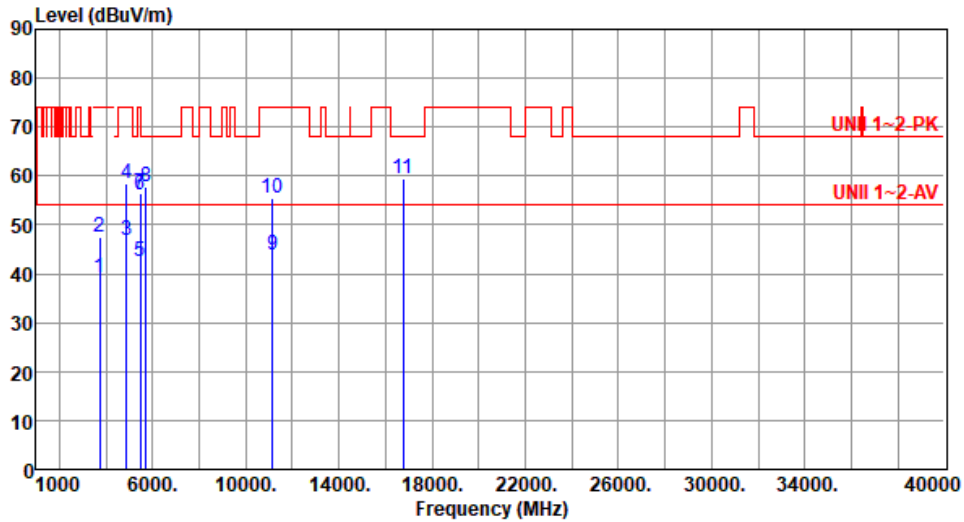
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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)	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):23 Humidity(%):64



	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	3720.00	39.14	54.00	-14.86	38.38	0.76	Average	100	35
2	3720.00	47.35	74.00	-26.65	46.59	0.76	Peak	100	35
3	4880.00	46.82	54.00	-7.18	42.70	4.12	Average	149	81
4	4880.00	58.46	74.00	-15.54	54.34	4.12	Peak	149	81
5	5460.00	42.41	54.00	-11.59	37.74	4.67	Average	149	81
6	5460.00	56.25	74.00	-17.75	51.58	4.67	Peak	149	81
7	5470.00	56.43	68.20	-11.77	51.73	4.70	Peak	149	81
8	5725.00	57.89	68.20	-10.31	52.72	5.17	Peak	149	81
9	11160.00	43.90	54.00	-10.10	29.93	13.97	Average	100	330
10	11160.00	55.31	74.00	-18.69	41.34	13.97	Peak	100	330
11	16740.00	59.43	68.20	-8.77	42.26	17.17	Peak	100	70

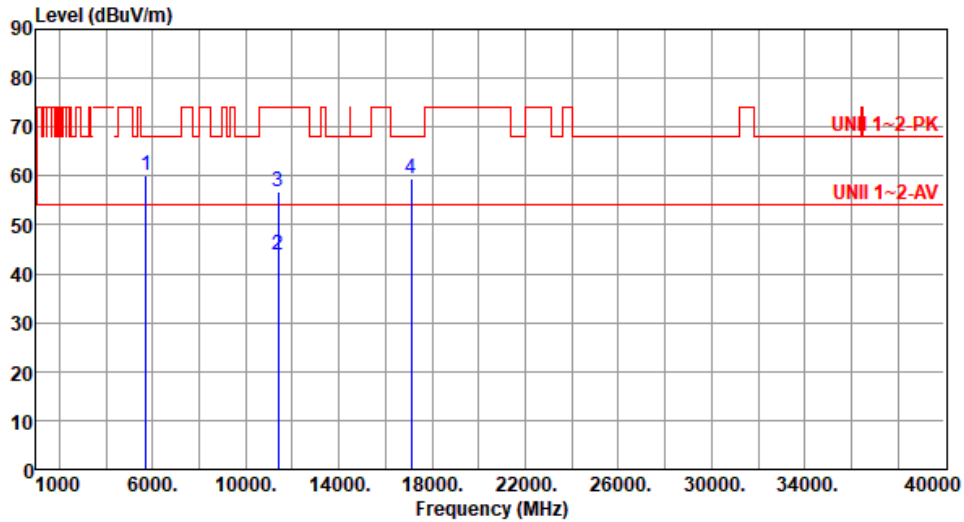
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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	Horizontal		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64

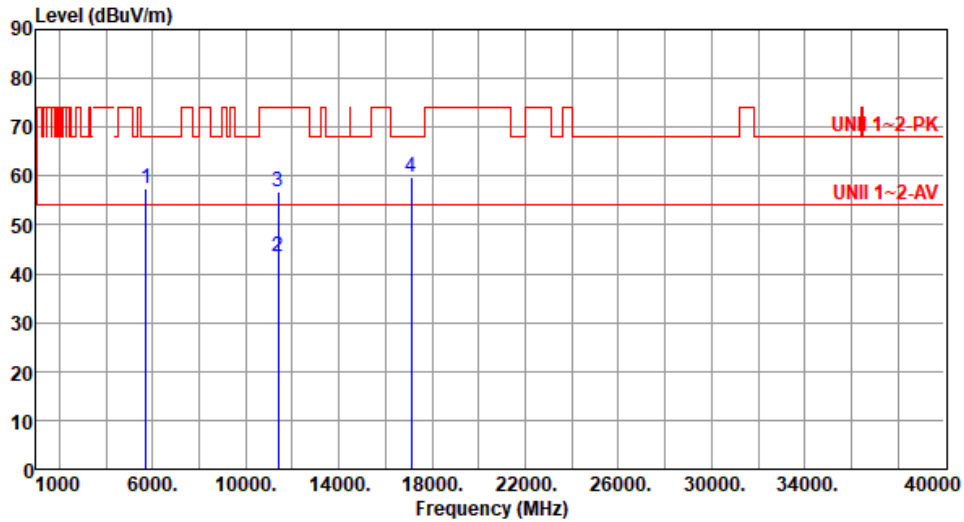


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.96	68.20	-8.24	54.79	5.17	Peak	260	295
2	11400.00	43.91	54.00	-10.09	29.77	14.14	Average	100	11
3	11400.00	56.89	74.00	-17.11	42.75	14.14	Peak	100	11
4	17100.00	59.40	68.20	-8.80	41.98	17.42	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	11a	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	57.46	68.20	-10.74	52.29	5.17	Peak	152	78
2	11400.00	43.57	54.00	-10.43	29.43	14.14	Average	100	352
3	11400.00	56.64	74.00	-17.36	42.50	14.14	Peak	100	352
4	17100.00	59.92	68.20	-8.28	42.50	17.42	Peak	100	348

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

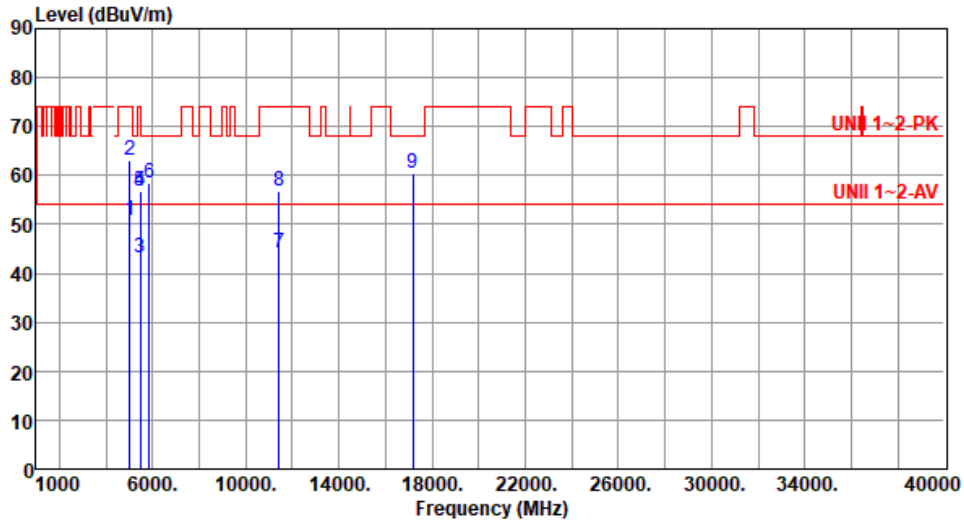
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):23 Humidity(%):64

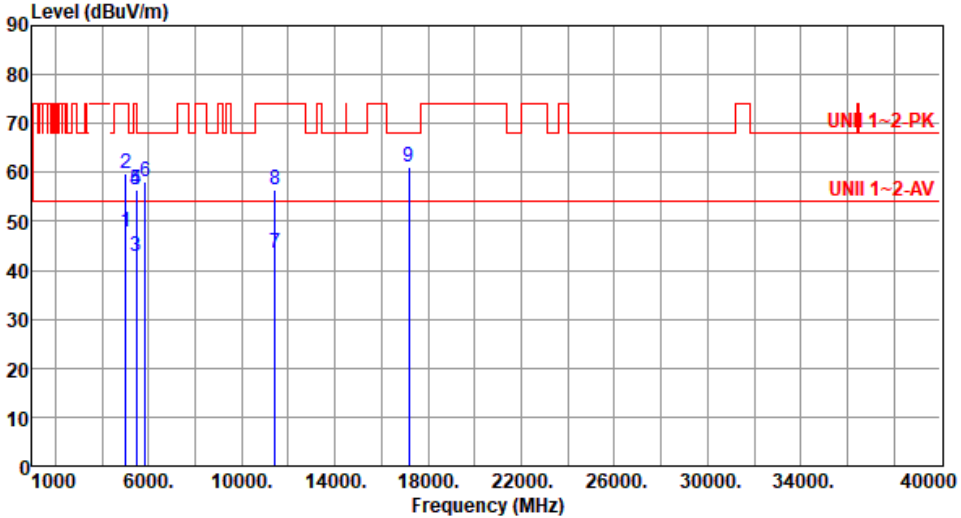


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5005.00	50.95	54.00	-3.05	46.88	4.07	Average	124	313
2	5005.00	63.06	74.00	-10.94	58.99	4.07	Peak	124	313
3	5460.00	43.09	54.00	-10.91	38.42	4.67	Average	230	294
4	5460.00	56.64	74.00	-17.36	51.97	4.67	Peak	230	294
5	5470.00	56.80	68.20	-11.40	52.10	4.70	Peak	230	294
6	5850.00	58.30	68.20	-9.90	52.65	5.65	Peak	230	294
7	11440.00	44.31	54.00	-9.69	30.05	14.26	Average	100	42
8	11440.00	56.68	74.00	-17.32	42.42	14.26	Peak	100	42
9	17160.00	60.45	68.20	-7.75	43.03	17.42	Peak	100	28

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

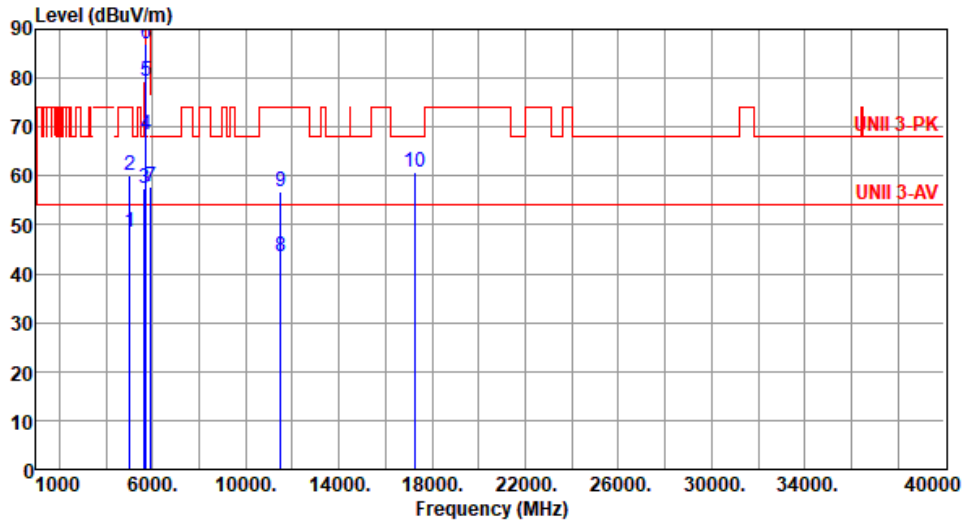
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720																																																																																																	
Polarization	Vertical																																																																																																			
<p>Test By :Brad Wu Temperature(°C):23 Humidity(%):64</p>																																																																																																				
																																																																																																				
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5005.00</td> <td>47.81</td> <td>54.00</td> <td>-6.19</td> <td>43.74</td> <td>4.07</td> <td>Average</td> <td>155 90</td> </tr> <tr> <td>2</td> <td>5005.00</td> <td>59.71</td> <td>74.00</td> <td>-14.29</td> <td>55.64</td> <td>4.07</td> <td>Peak</td> <td>155 90</td> </tr> <tr> <td>3</td> <td>5460.00</td> <td>42.80</td> <td>54.00</td> <td>-11.20</td> <td>38.13</td> <td>4.67</td> <td>Average</td> <td>155 90</td> </tr> <tr> <td>4</td> <td>5460.00</td> <td>56.40</td> <td>74.00</td> <td>-17.60</td> <td>51.73</td> <td>4.67</td> <td>Peak</td> <td>155 90</td> </tr> <tr> <td>5</td> <td>5470.00</td> <td>56.62</td> <td>68.20</td> <td>-11.58</td> <td>51.92</td> <td>4.70</td> <td>Peak</td> <td>155 90</td> </tr> <tr> <td>6</td> <td>5850.00</td> <td>58.06</td> <td>68.20</td> <td>-10.14</td> <td>52.41</td> <td>5.65</td> <td>Peak</td> <td>155 90</td> </tr> <tr> <td>7</td> <td>11440.00</td> <td>43.49</td> <td>54.00</td> <td>-10.51</td> <td>29.23</td> <td>14.26</td> <td>Average</td> <td>100 353</td> </tr> <tr> <td>8</td> <td>11440.00</td> <td>56.29</td> <td>74.00</td> <td>-17.71</td> <td>42.03</td> <td>14.26</td> <td>Peak</td> <td>100 353</td> </tr> <tr> <td>9</td> <td>17160.00</td> <td>61.14</td> <td>68.20</td> <td>-7.06</td> <td>43.72</td> <td>17.42</td> <td>Peak</td> <td>100 350</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5005.00	47.81	54.00	-6.19	43.74	4.07	Average	155 90	2	5005.00	59.71	74.00	-14.29	55.64	4.07	Peak	155 90	3	5460.00	42.80	54.00	-11.20	38.13	4.67	Average	155 90	4	5460.00	56.40	74.00	-17.60	51.73	4.67	Peak	155 90	5	5470.00	56.62	68.20	-11.58	51.92	4.70	Peak	155 90	6	5850.00	58.06	68.20	-10.14	52.41	5.65	Peak	155 90	7	11440.00	43.49	54.00	-10.51	29.23	14.26	Average	100 353	8	11440.00	56.29	74.00	-17.71	42.03	14.26	Peak	100 353	9	17160.00	61.14	68.20	-7.06	43.72	17.42	Peak	100 350
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																																																																												
1	5005.00	47.81	54.00	-6.19	43.74	4.07	Average	155 90																																																																																												
2	5005.00	59.71	74.00	-14.29	55.64	4.07	Peak	155 90																																																																																												
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5	5470.00	56.62	68.20	-11.58	51.92	4.70	Peak	155 90																																																																																												
6	5850.00	58.06	68.20	-10.14	52.41	5.65	Peak	155 90																																																																																												
7	11440.00	43.49	54.00	-10.51	29.23	14.26	Average	100 353																																																																																												
8	11440.00	56.29	74.00	-17.71	42.03	14.26	Peak	100 353																																																																																												
9	17160.00	61.14	68.20	-7.06	43.72	17.42	Peak	100 350																																																																																												
<p>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).</p>																																																																																																				

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

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	5027.00	48.48	54.00	-5.52	44.36	4.12	Average	118	301
2	5027.00	60.17	74.00	-13.83	56.05	4.12	Peak	118	301
3	5650.00	57.61	68.20	-10.59	52.80	4.81	Peak	236	297
4	5700.00	68.41	105.20	-36.79	63.39	5.02	Peak	236	297
5	5720.00	79.23	110.80	-31.57	74.09	5.14	Peak	236	297
6	5725.00	87.16	122.20	-35.04	81.99	5.17	Peak	236	297
7	5925.00	57.67	68.20	-10.53	52.06	5.61	Peak	236	297
8	11490.00	43.61	54.00	-10.39	29.22	14.39	Average	100	26
9	11490.00	56.65	74.00	-17.35	42.26	14.39	Peak	100	26
10	17235.00	60.64	68.20	-7.56	43.18	17.46	Peak	100	33

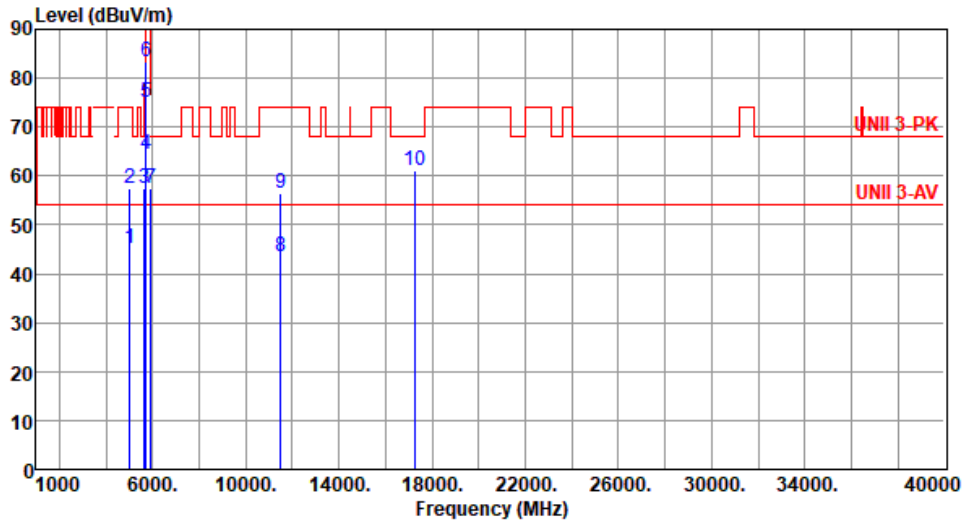
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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 :Brad Wu Temperature(°C):23 Humidity(%):64



	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	5027.00	45.21	54.00	-8.79	41.09	4.12	Average	156	71
2	5027.00	57.51	74.00	-16.49	53.39	4.12	Peak	156	71
3	5650.00	57.42	68.20	-10.78	52.61	4.81	Peak	156	71
4	5700.00	64.55	105.20	-40.65	59.53	5.02	Peak	156	71
5	5720.00	74.99	110.80	-35.81	69.85	5.14	Peak	156	71
6	5725.00	83.32	122.20	-38.88	78.15	5.17	Peak	156	71
7	5925.00	57.53	68.20	-10.67	51.92	5.61	Peak	156	71
8	11490.00	43.43	54.00	-10.57	29.04	14.39	Average	100	343
9	11490.00	56.40	74.00	-17.60	42.01	14.39	Peak	100	343
10	17235.00	61.17	68.20	-7.03	43.71	17.46	Peak	100	339

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

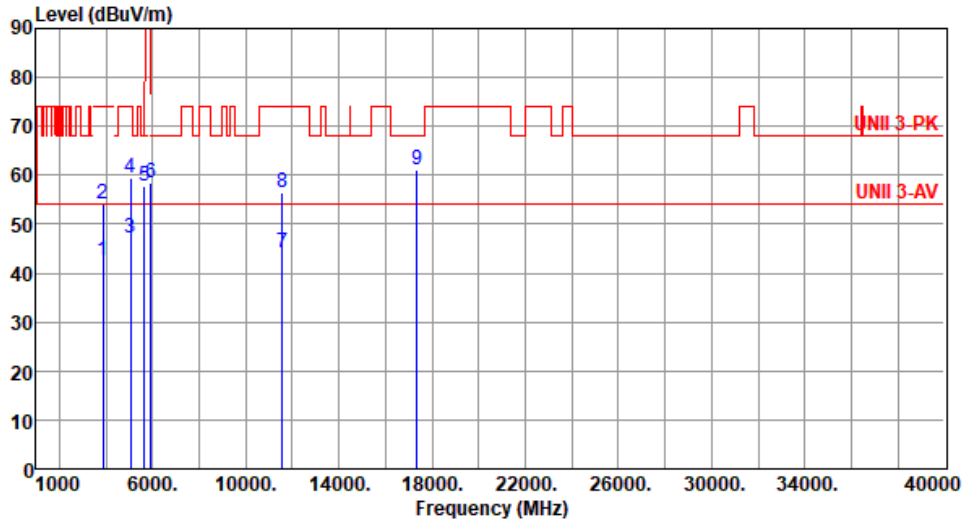
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5785
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Polarization	Horizontal
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Test By : Roger Lu Temperature(°C): 23 Humidity(%): 64



	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	3856.66	42.54	54.00	-11.46	41.39	1.15	Average	100	354
2	3856.66	53.98	74.00	-20.02	52.83	1.15	Peak	100	354
3	5062.00	47.13	54.00	-6.87	42.81	4.32	Average	121	303
4	5062.00	59.51	74.00	-14.49	55.19	4.32	Peak	121	303
5	5650.00	57.94	68.20	-10.26	53.13	4.81	Peak	204	299
6	5925.00	58.33	68.20	-9.87	52.72	5.61	Peak	204	299
7	11570.00	44.09	54.00	-9.91	29.84	14.25	Average	100	20
8	11570.00	56.47	74.00	-17.53	42.22	14.25	Peak	100	20
9	17355.00	61.20	68.20	-7.00	43.29	17.91	Peak	100	60

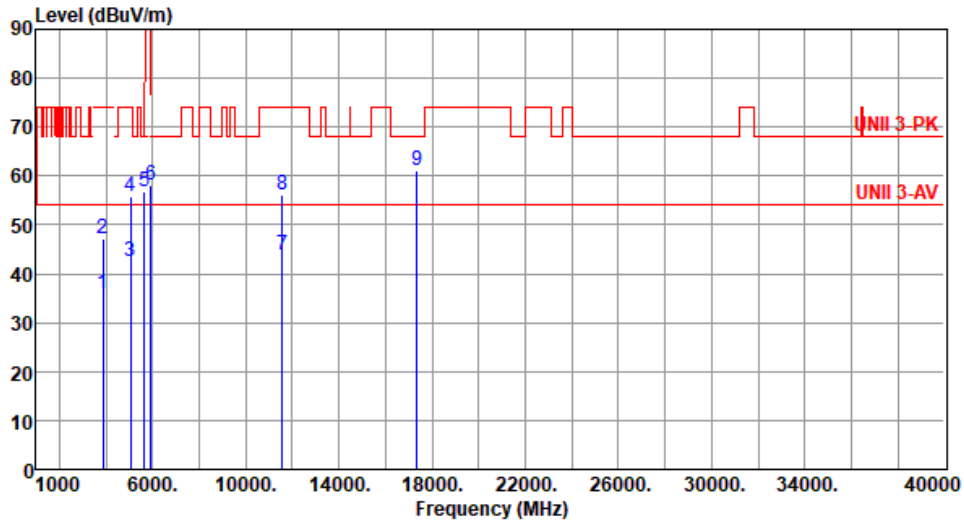
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(°C):23 Humidity(%):64



	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	3856.66	35.75	54.00	-18.25	34.60	1.15	Average	100	5
2	3856.66	47.24	74.00	-26.76	46.09	1.15	Peak	100	5
3	5062.00	42.66	54.00	-11.34	38.34	4.32	Average	142	251
4	5062.00	55.89	74.00	-18.11	51.57	4.32	Peak	142	251
5	5650.00	56.71	68.20	-11.49	51.90	4.81	Peak	142	251
6	5925.00	58.23	68.20	-9.97	52.62	5.61	Peak	142	251
7	11570.00	43.73	54.00	-10.27	29.48	14.25	Average	100	60
8	11570.00	56.11	74.00	-17.89	41.86	14.25	Peak	100	60
9	17355.00	61.09	68.20	-7.11	43.18	17.91	Peak	100	30

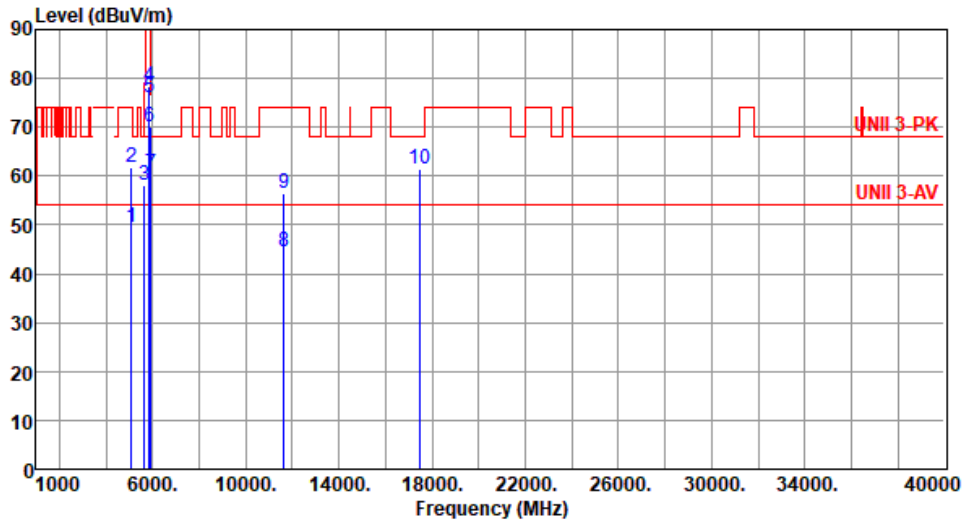
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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)	5825
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):23 Humidity(%):64



	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	5097.00	49.35	54.00	-4.65	44.59	4.76	Average	114	317
2	5097.00	61.71	74.00	-12.29	56.95	4.76	Peak	114	317
3	5650.00	58.00	68.20	-10.20	53.19	4.81	Peak	204	302
4	5850.00	78.29	122.20	-43.91	72.64	5.65	Peak	204	302
5	5855.00	76.11	110.80	-34.69	70.46	5.65	Peak	204	302
6	5875.00	70.14	105.20	-35.06	64.48	5.66	Peak	204	302
7	5925.00	60.48	68.20	-7.72	54.87	5.61	Peak	204	302
8	11650.00	44.43	54.00	-9.57	30.53	13.90	Average	100	16
9	11650.00	56.48	74.00	-17.52	42.58	13.90	Peak	100	16
10	17475.00	61.49	68.20	-6.71	42.94	18.55	Peak	100	13

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

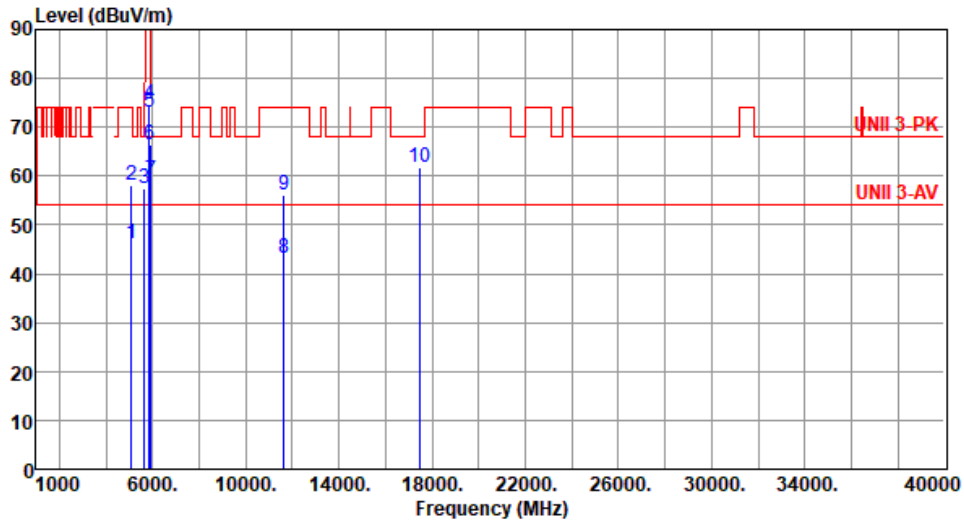
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):23 Humidity(%):64



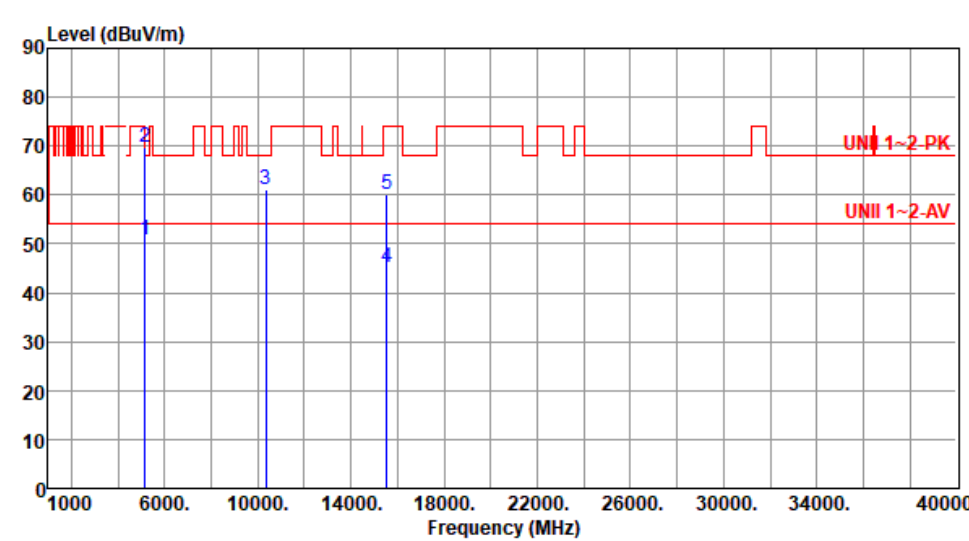
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5097.00	46.18	54.00	-7.82	41.42	4.76	Average	153	83
2	5097.00	58.20	74.00	-15.80	53.44	4.76	Peak	153	83
3	5650.00	57.29	68.20	-10.91	52.48	4.81	Peak	153	83
4	5850.00	74.74	122.20	-47.46	69.09	5.65	Peak	153	83
5	5855.00	73.21	110.80	-37.59	67.56	5.65	Peak	153	83
6	5875.00	66.50	105.20	-38.70	60.84	5.66	Peak	153	83
7	5925.00	59.22	68.20	-8.98	53.61	5.61	Peak	153	83
8	11650.00	43.06	54.00	-10.94	29.16	13.90	Average	100	344
9	11650.00	56.13	74.00	-17.87	42.23	13.90	Peak	100	344
10	17475.00	61.70	68.20	-6.50	43.15	18.55	Peak	100	345

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

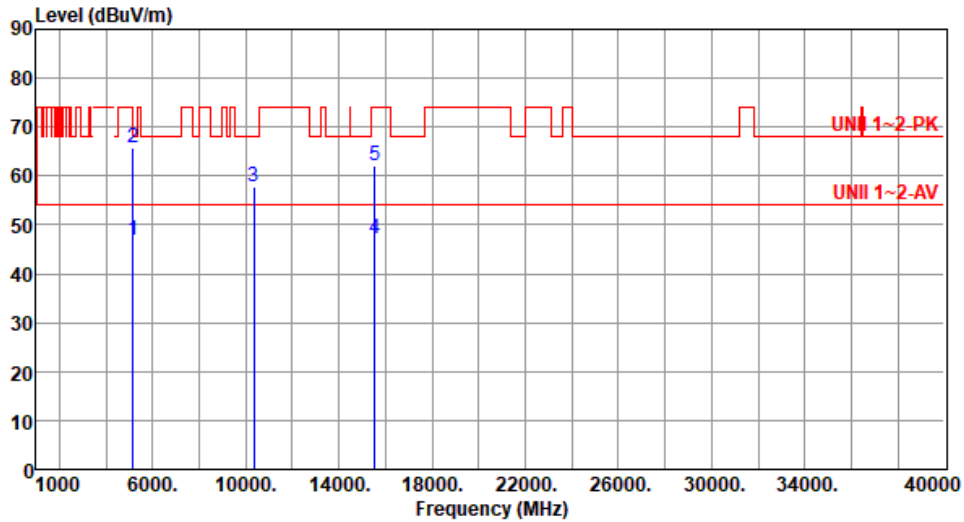
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180						
Polarization	Horizontal								
<p>Test By :Brad Wu Temperature(°C):24 Humidity(%):65</p>									
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 40000). A red line shows the emission level, which fluctuates between approximately 60 and 75 dBuV/m. Two horizontal red lines represent limits: UNII 1~2-PK at approximately 70 dBuV/m and UNII 1~2-AV at approximately 55 dBuV/m. Five blue vertical lines mark specific frequency points: 1 at 5150 MHz, 2 at 5150 MHz, 3 at 10360 MHz, 4 at 15540 MHz, and 5 at 15540 MHz.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	50.65	54.00	-3.35	45.64	5.01	Average	115	307
2	5150.00	69.89	74.00	-4.11	64.88	5.01	Peak	115	307
3	10360.00	61.02	68.20	-7.18	46.81	14.21	Peak	235	51
4	15540.00	45.23	54.00	-8.77	31.59	13.64	Average	338	37
5	15540.00	60.06	74.00	-13.94	46.42	13.64	Peak	338	37
<p>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).</p>									

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5150.00	46.76	54.00	-7.24	41.75	5.01	Average	157	85
2	5150.00	65.76	74.00	-8.24	60.75	5.01	Peak	157	85
3	10360.00	57.77	68.20	-10.43	43.56	14.21	Peak	100	50
4	15540.00	47.13	54.00	-6.87	33.49	13.64	Average	155	49
5	15540.00	61.98	74.00	-12.02	48.34	13.64	Peak	155	49

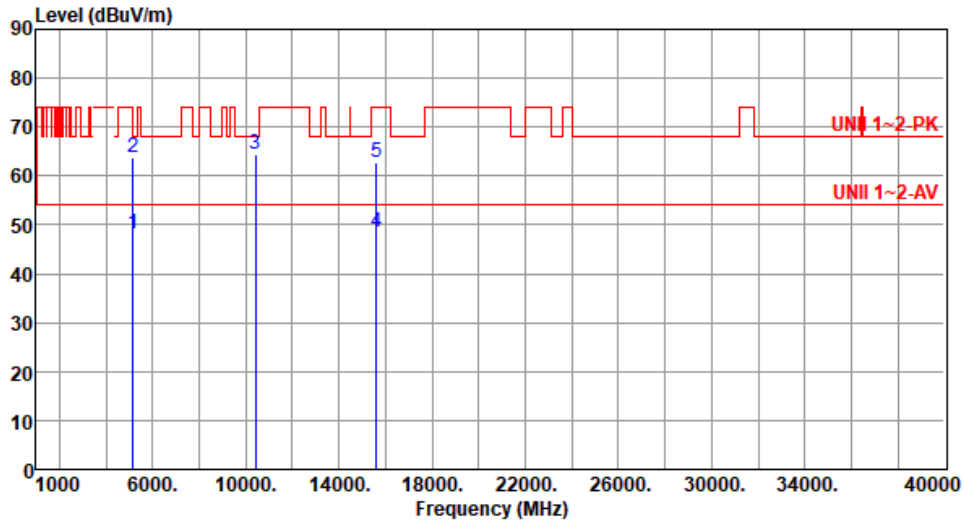
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5150.00	48.19	54.00	-5.81	43.18	5.01	Average	110	309
2	5150.00	63.84	74.00	-10.16	58.83	5.01	Peak	110	309
3	10400.00	64.42	68.20	-3.78	50.09	14.33	Peak	345	39
4	15600.00	48.65	54.00	-5.35	35.32	13.33	Average	331	29
5	15600.00	62.81	74.00	-11.19	49.48	13.33	Peak	331	29

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)

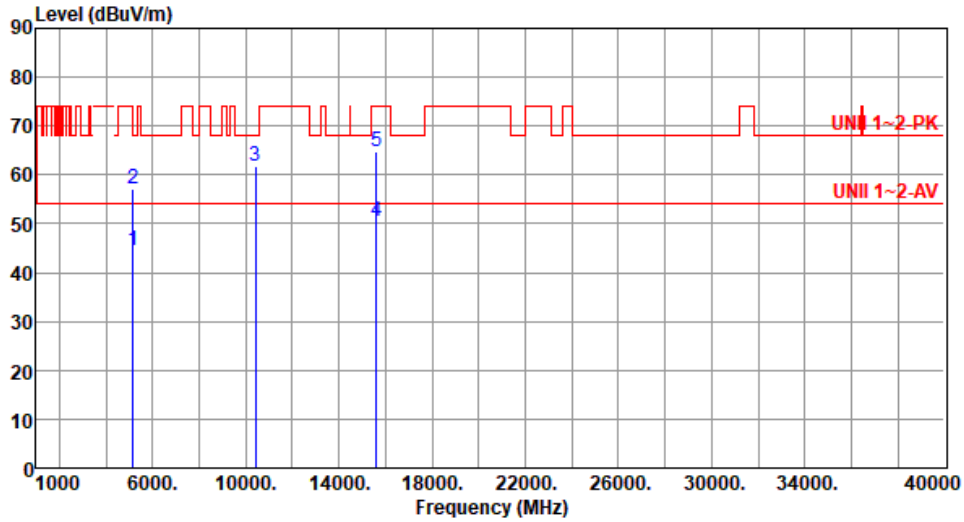
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT20	Test Freq. (MHz)	5200
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):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	5150.00	44.43	54.00	-9.57	39.42	5.01	Average	155	78
2	5150.00	57.08	74.00	-16.92	52.07	5.01	Peak	155	78
3	10400.00	61.85	68.20	-6.35	47.52	14.33	Peak	100	51
4	15600.00	50.52	54.00	-3.48	37.19	13.33	Average	175	28
5	15600.00	64.75	74.00	-9.25	51.42	13.33	Peak	175	28

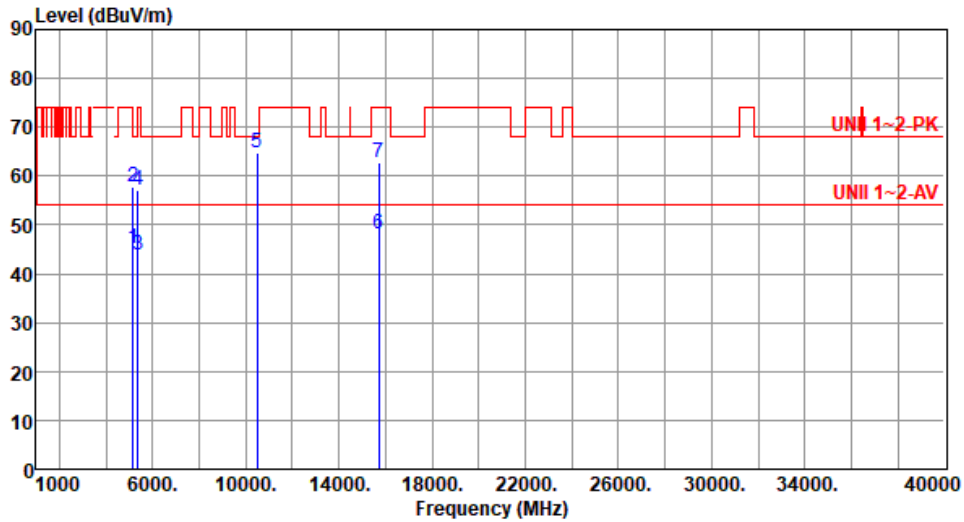
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5150.00	45.07	54.00	-8.93	40.06	5.01	Average	116	314
2	5150.00	57.75	74.00	-16.25	52.74	5.01	Peak	116	314
3	5350.00	43.97	54.00	-10.03	39.55	4.42	Average	116	314
4	5350.00	57.24	74.00	-16.76	52.82	4.42	Peak	116	314
5	10480.00	64.68	68.20	-3.52	50.22	14.46	Peak	381	59
6	15720.00	48.10	54.00	-5.90	34.68	13.42	Average	333	29
7	15720.00	62.77	74.00	-11.23	49.35	13.42	Peak	333	29

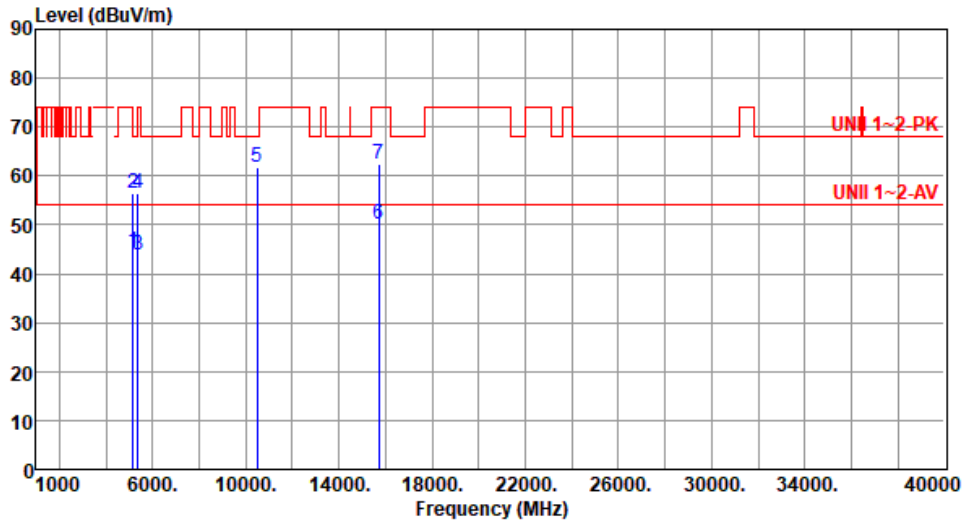
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5150.00	44.63	54.00	-9.37	39.62	5.01	Average	176	28
2	5150.00	56.54	74.00	-17.46	51.53	5.01	Peak	176	28
3	5350.00	43.88	54.00	-10.12	39.46	4.42	Average	176	28
4	5350.00	56.54	74.00	-17.46	52.12	4.42	Peak	176	28
5	10480.00	61.69	68.20	-6.51	47.23	14.46	Peak	100	42
6	15720.00	50.14	54.00	-3.86	36.72	13.42	Average	176	28
7	15720.00	62.55	74.00	-11.45	49.13	13.42	Peak	176	28

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)

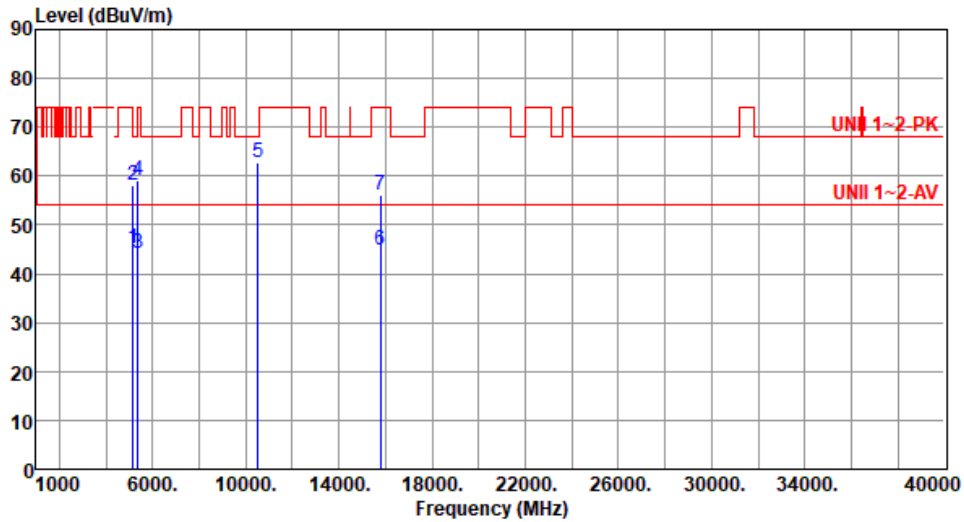
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT20	Test Freq. (MHz)	5260
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):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	5150.00	45.22	54.00	-8.78	40.21	5.01	Average	123	314
2	5150.00	58.10	74.00	-15.90	53.09	5.01	Peak	123	314
3	5350.00	44.30	54.00	-9.70	39.88	4.42	Average	123	314
4	5350.00	59.04	74.00	-14.96	54.62	4.42	Peak	123	314
5	10520.00	62.68	68.20	-5.52	48.21	14.47	Peak	161	22
6	15780.00	44.85	54.00	-9.15	31.37	13.48	Average	100	7
7	15780.00	56.16	74.00	-17.84	42.68	13.48	Peak	100	7

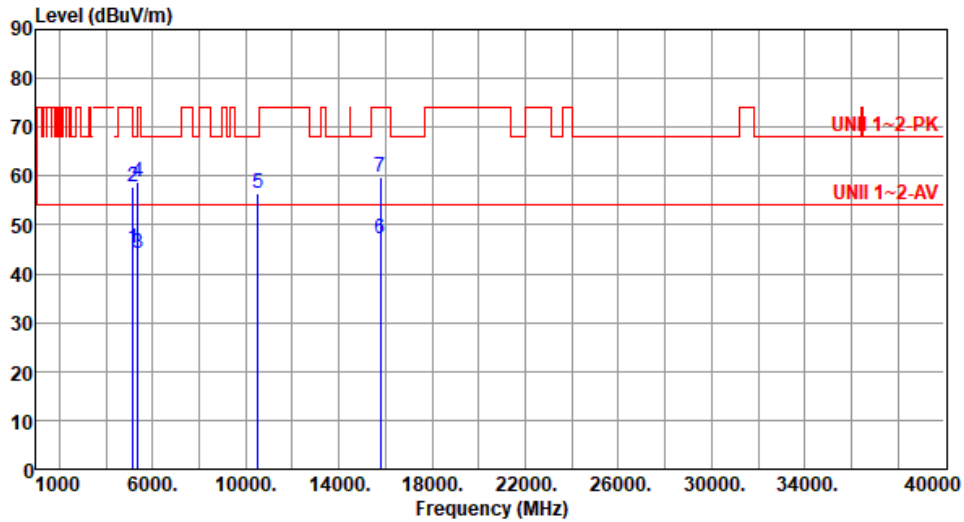
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5150.00	45.01	54.00	-8.99	40.00	5.01	Average	147	82
2	5150.00	57.78	74.00	-16.22	52.77	5.01	Peak	147	82
3	5350.00	44.13	54.00	-9.87	39.71	4.42	Average	147	82
4	5350.00	58.65	74.00	-15.35	54.23	4.42	Peak	147	82
5	10520.00	56.36	68.20	-11.84	41.89	14.47	Peak	100	37
6	15780.00	47.24	54.00	-6.76	33.76	13.48	Average	175	29
7	15780.00	59.86	74.00	-14.14	46.38	13.48	Peak	175	29

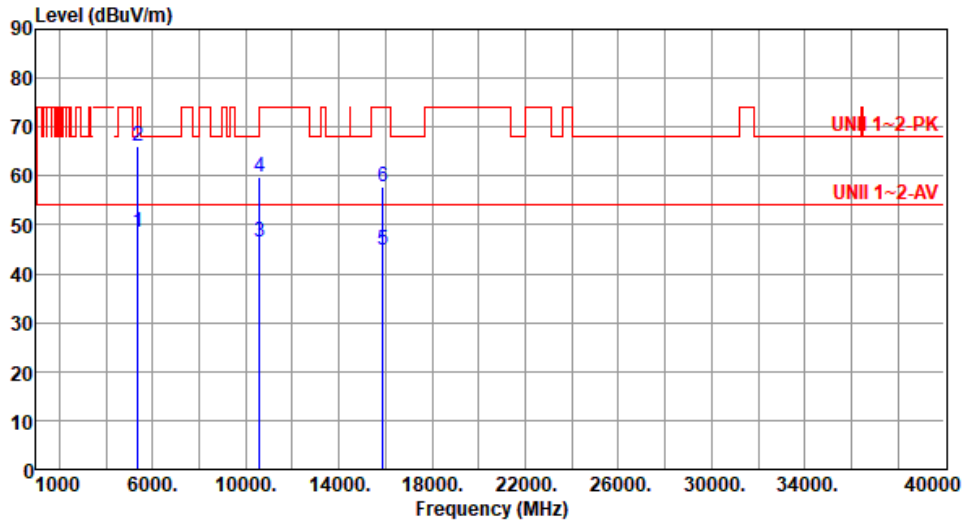
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5350.00	48.46	54.00	-5.54	44.04	4.42	Average	116	309
2	5350.00	66.07	74.00	-7.93	61.65	4.42	Peak	116	309
3	10600.00	46.50	54.00	-7.50	32.15	14.35	Average	253	8
4	10600.00	59.91	74.00	-14.09	45.56	14.35	Peak	253	8
5	15900.00	44.88	54.00	-9.12	31.31	13.57	Average	125	15
6	15900.00	57.88	74.00	-16.12	44.31	13.57	Peak	125	15

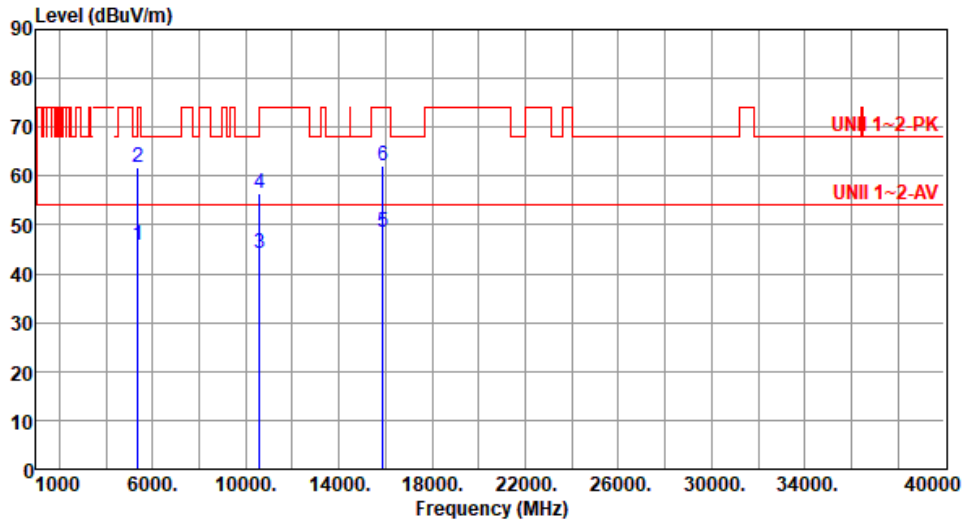
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5350.00	45.75	54.00	-8.25	41.33	4.42	Average	147	74
2	5350.00	61.66	74.00	-12.34	57.24	4.42	Peak	147	74
3	10600.00	44.21	54.00	-9.79	29.86	14.35	Average	100	42
4	10600.00	56.62	74.00	-17.38	42.27	14.35	Peak	100	42
5	15900.00	48.61	54.00	-5.39	35.04	13.57	Average	189	356
6	15900.00	62.19	74.00	-11.81	48.62	13.57	Peak	189	356

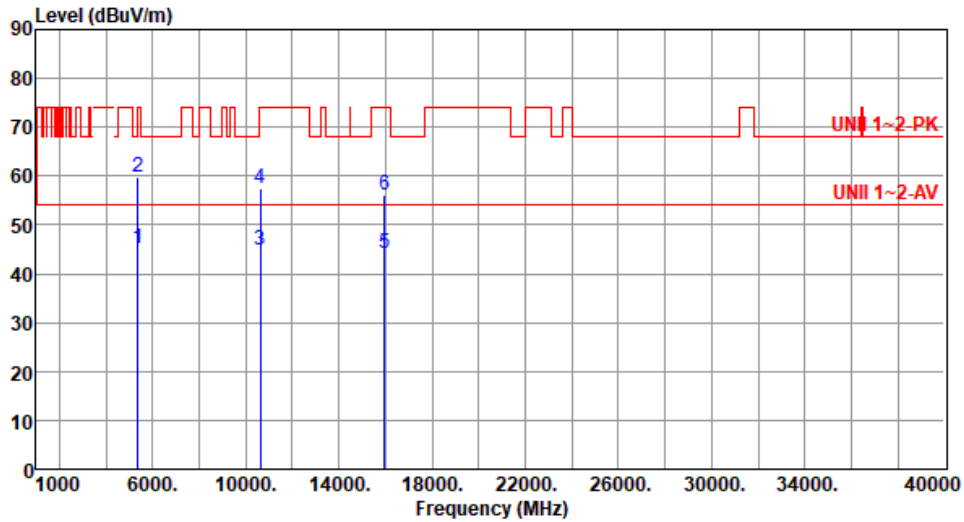
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5350.00	45.14	54.00	-8.86	40.72	4.42	Average	108	310
2	5350.00	59.69	74.00	-14.31	55.27	4.42	Peak	108	310
3	10640.00	44.89	54.00	-9.11	30.52	14.37	Average	100	9
4	10640.00	57.54	74.00	-16.46	43.17	14.37	Peak	100	9
5	15960.00	44.24	54.00	-9.76	30.56	13.68	Average	100	12
6	15960.00	56.28	74.00	-17.72	42.60	13.68	Peak	100	12

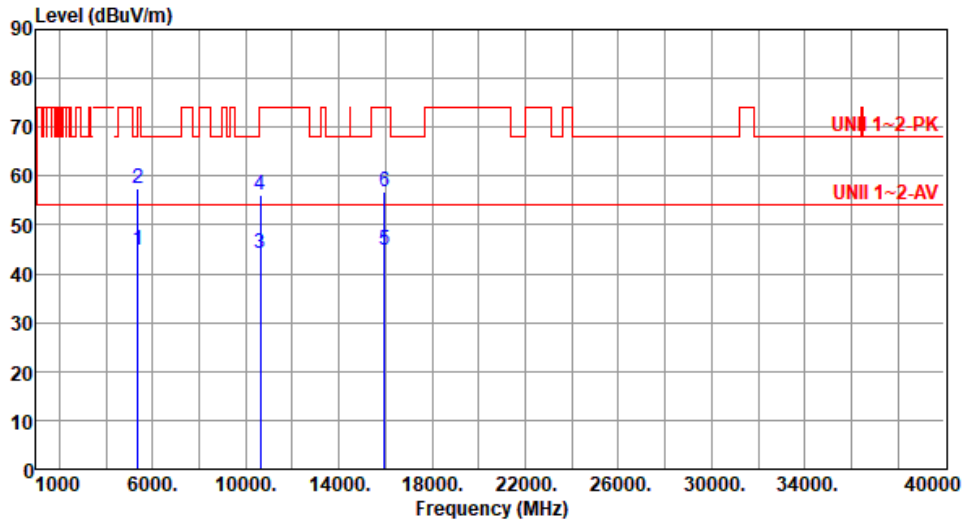
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5350.00	44.88	54.00	-9.12	40.46	4.42	Average	171	74
2	5350.00	57.38	74.00	-16.62	52.96	4.42	Peak	171	74
3	10640.00	44.15	54.00	-9.85	29.78	14.37	Average	100	35
4	10640.00	56.24	74.00	-17.76	41.87	14.37	Peak	100	35
5	15960.00	44.82	54.00	-9.18	31.14	13.68	Average	100	10
6	15960.00	56.87	74.00	-17.13	43.19	13.68	Peak	100	10

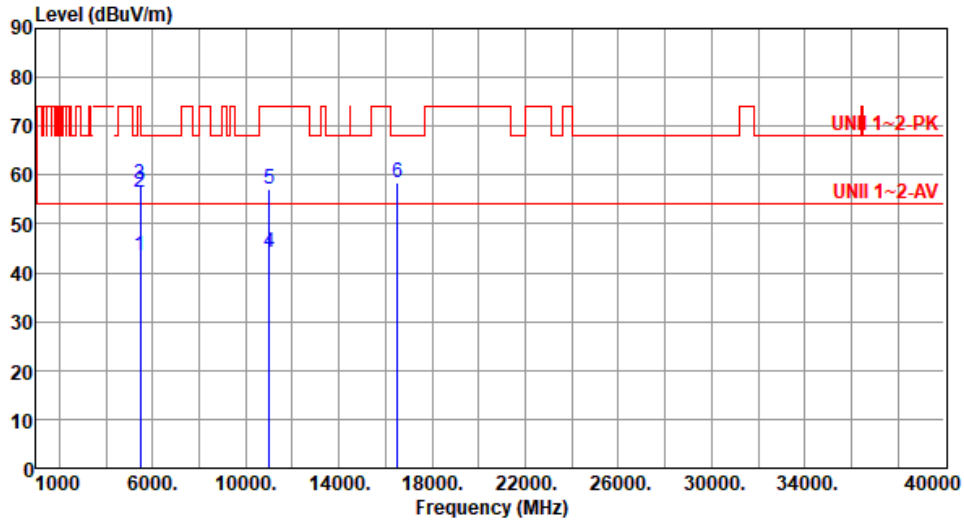
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5460.00	43.41	54.00	-10.59	38.74	4.67	Average	110	57
2	5460.00	56.61	74.00	-17.39	51.94	4.67	Peak	110	57
3	5470.00	58.14	68.20	-10.06	53.44	4.70	Peak	110	57
4	11000.00	44.19	54.00	-9.81	29.54	14.65	Average	100	12
5	11000.00	57.25	74.00	-16.75	42.60	14.65	Peak	100	12
6	16500.00	58.50	68.20	-9.70	42.16	16.34	Peak	100	25

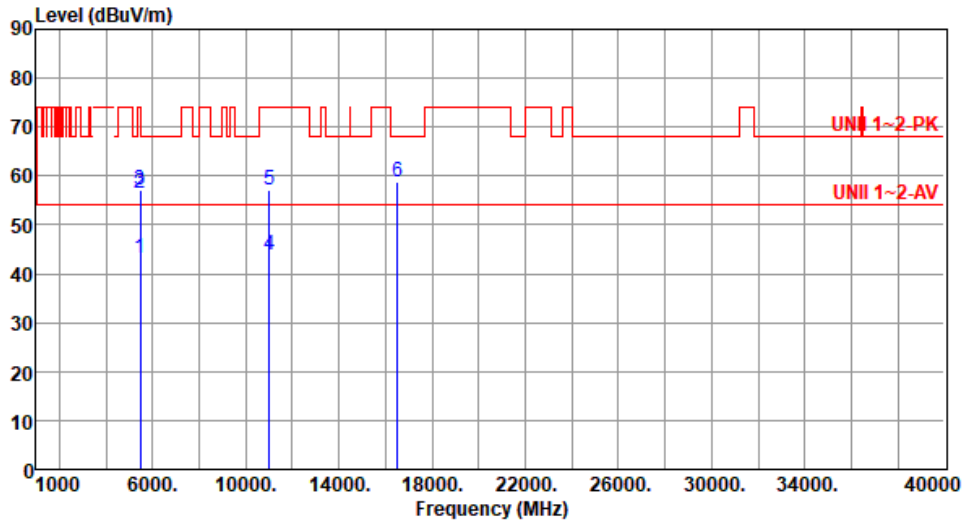
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):24 Humidity(%):65



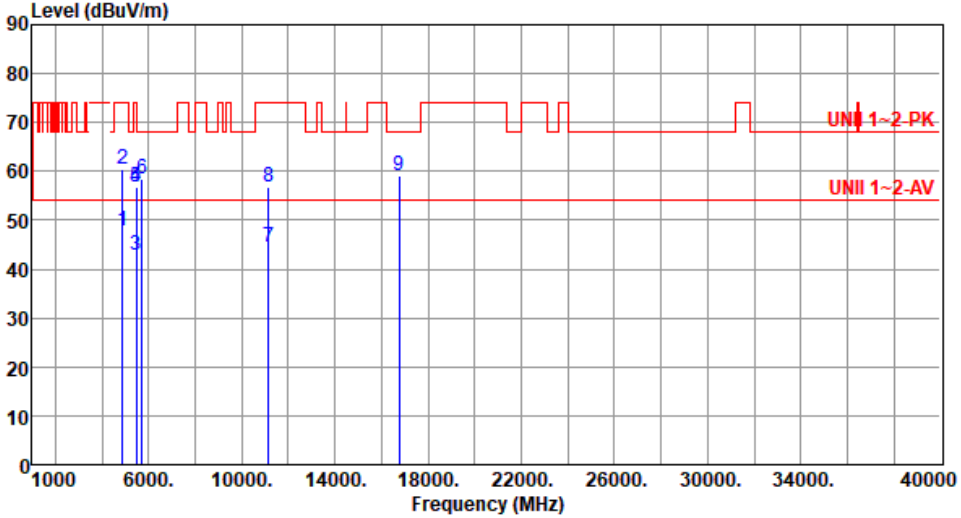
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.32	54.00	-10.68	38.65	4.67	Average	159	76
2	5460.00	56.35	74.00	-17.65	51.68	4.67	Peak	159	76
3	5470.00	57.03	68.20	-11.17	52.33	4.70	Peak	159	76
4	11000.00	43.81	54.00	-10.19	29.16	14.65	Average	100	356
5	11000.00	57.00	74.00	-17.00	42.35	14.65	Peak	100	356
6	16500.00	58.75	68.20	-9.45	42.41	16.34	Peak	100	352

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	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By	:Brad Wu	Temperature(°C):24	Humidity(%):65



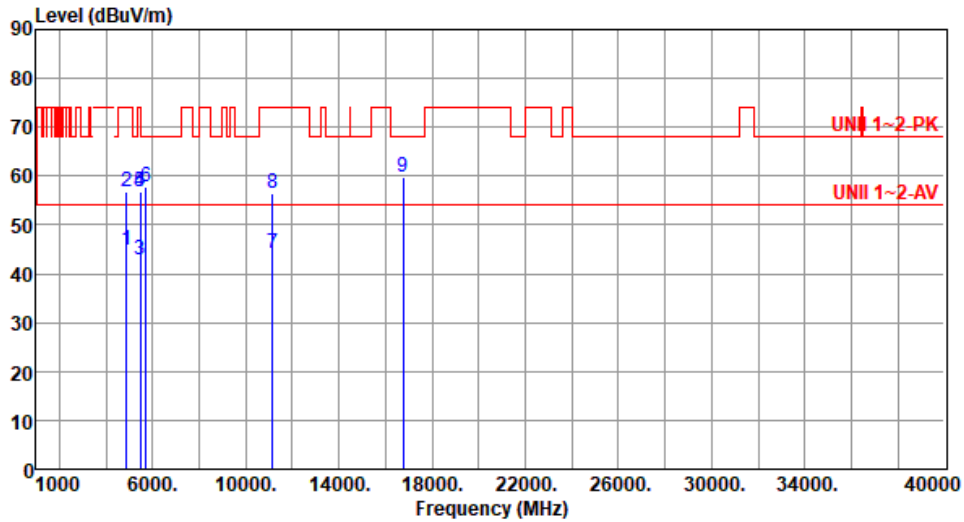
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4880.00	47.73	54.00	-6.27	43.61	4.12	Average	113	309
2	4880.00	60.28	74.00	-13.72	56.16	4.12	Peak	113	309
3	5460.00	42.89	54.00	-11.11	38.22	4.67	Average	104	58
4	5460.00	56.79	74.00	-17.21	52.12	4.67	Peak	104	58
5	5470.00	56.90	68.20	-11.30	52.20	4.70	Peak	104	58
6	5725.00	58.31	68.20	-9.89	53.14	5.17	Peak	104	58
7	11160.00	44.56	54.00	-9.44	30.59	13.97	Average	100	11
8	11160.00	56.63	74.00	-17.37	42.66	13.97	Peak	100	11
9	16740.00	59.15	68.20	-9.05	41.98	17.17	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	VHT20	Test Freq. (MHz)	5580
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):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	4880.00	44.82	54.00	-9.18	40.70	4.12	Average	166	71
2	4880.00	56.82	74.00	-17.18	52.70	4.12	Peak	166	71
3	5460.00	42.70	54.00	-11.30	38.03	4.67	Average	166	71
4	5460.00	56.63	74.00	-17.37	51.96	4.67	Peak	166	71
5	5470.00	56.72	68.20	-11.48	52.02	4.70	Peak	166	71
6	5725.00	57.67	68.20	-10.53	52.50	5.17	Peak	166	71
7	11160.00	44.10	54.00	-9.90	30.13	13.97	Average	100	356
8	11160.00	56.30	74.00	-17.70	42.33	13.97	Peak	100	356
9	16740.00	59.63	68.20	-8.57	42.46	17.17	Peak	100	351

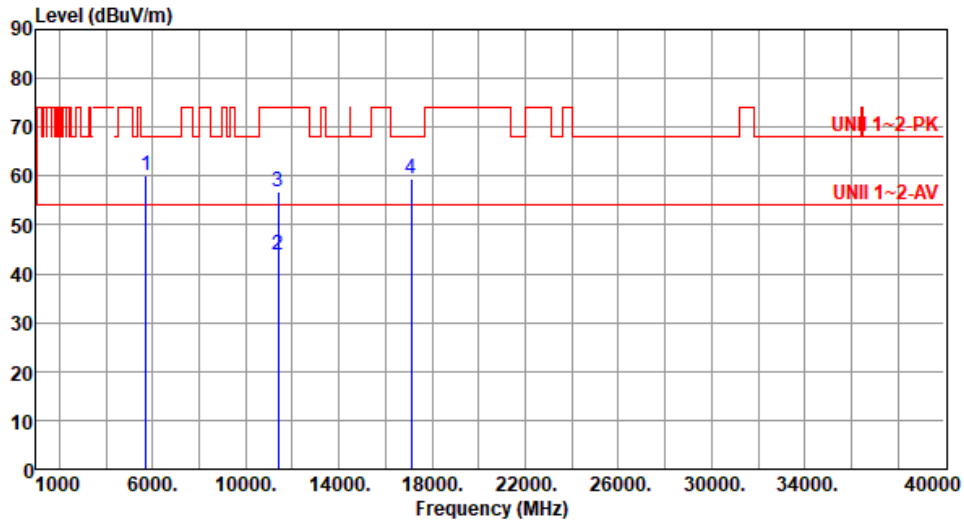
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5725.00	60.28	68.20	-7.92	55.11	5.17	Peak	123	61
2	11400.00	43.76	54.00	-10.24	29.62	14.14	Average	100	10
3	11400.00	56.77	74.00	-17.23	42.63	14.14	Peak	100	10
4	17100.00	59.40	68.20	-8.80	41.98	17.42	Peak	100	13

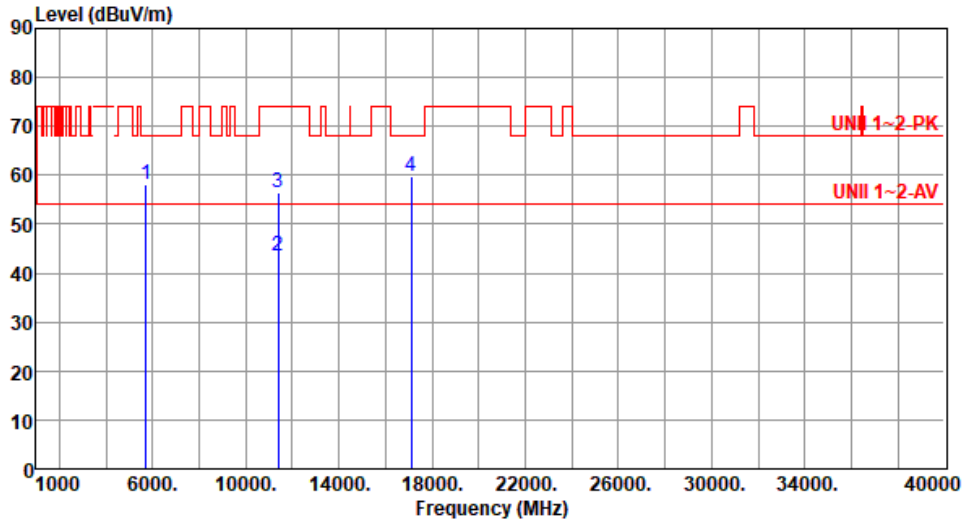
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5725.00	58.05	68.20	-10.15	52.88	5.17	Peak	154	77
2	11400.00	43.57	54.00	-10.43	29.43	14.14	Average	100	338
3	11400.00	56.57	74.00	-17.43	42.43	14.14	Peak	100	338
4	17100.00	59.86	68.20	-8.34	42.44	17.42	Peak	100	341

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

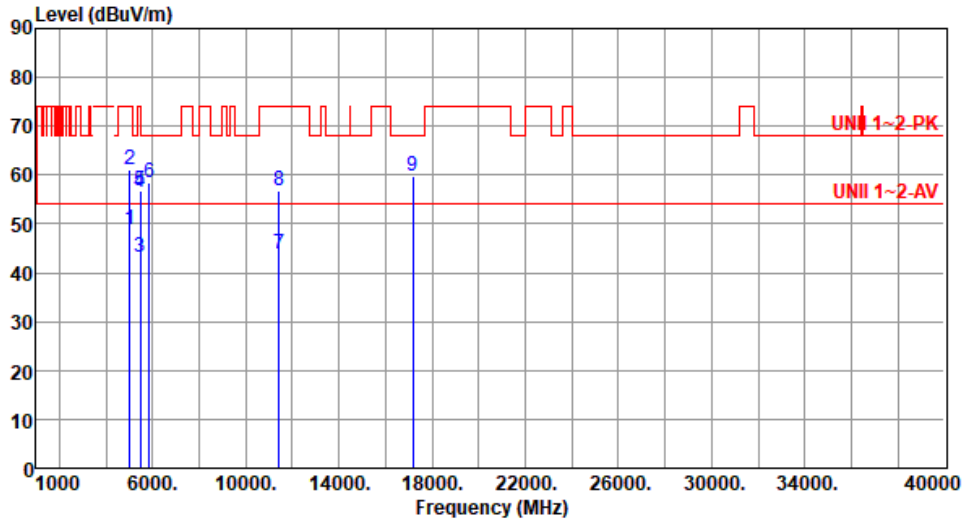
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5720
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Polarization	Horizontal
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Test By :Brad Wu Temperature(°C):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	5005.00	48.92	54.00	-5.08	44.85	4.07	Average	126	307
2	5005.00	61.24	74.00	-12.76	57.17	4.07	Peak	126	307
3	5460.00	43.34	54.00	-10.66	38.67	4.67	Average	130	60
4	5460.00	56.44	74.00	-17.56	51.77	4.67	Peak	130	60
5	5470.00	56.90	68.20	-11.30	52.20	4.70	Peak	130	60
6	5850.00	58.54	68.20	-9.66	52.89	5.65	Peak	130	60
7	11440.00	43.86	54.00	-10.14	29.60	14.26	Average	100	14
8	11440.00	56.89	74.00	-17.11	42.63	14.26	Peak	100	14
9	17160.00	59.81	68.20	-8.39	42.39	17.42	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

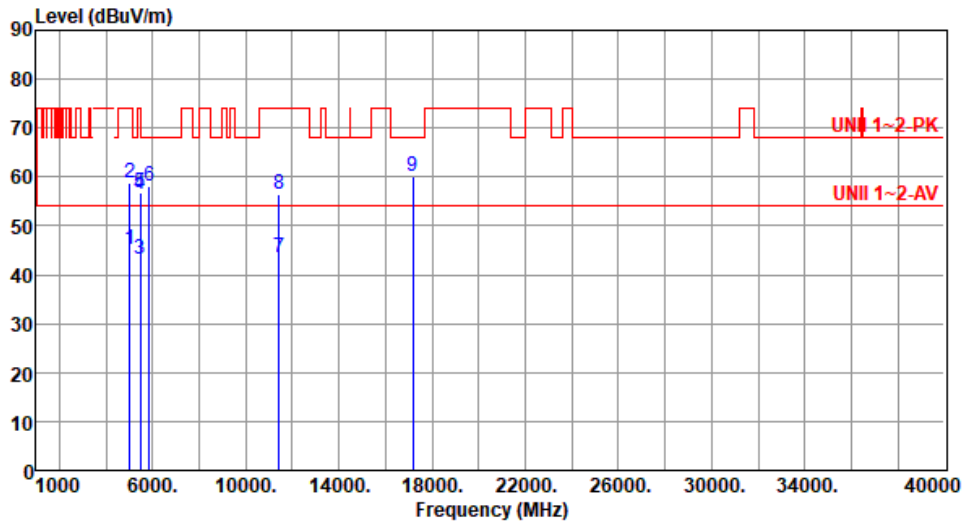
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5720
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Polarization	Vertical
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Test By :Brad Wu Temperature(°C):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	5005.00	45.03	54.00	-8.97	40.96	4.07	Average	159	80
2	5005.00	58.70	74.00	-15.30	54.63	4.07	Peak	159	80
3	5460.00	43.30	54.00	-10.70	38.63	4.67	Average	159	80
4	5460.00	56.32	74.00	-17.68	51.65	4.67	Peak	159	80
5	5470.00	56.86	68.20	-11.34	52.16	4.70	Peak	159	80
6	5850.00	58.06	68.20	-10.14	52.41	5.65	Peak	159	80
7	11440.00	43.66	54.00	-10.34	29.40	14.26	Average	100	348
8	11440.00	56.57	74.00	-17.43	42.31	14.26	Peak	100	348
9	17160.00	60.03	68.20	-8.17	42.61	17.42	Peak	100	358

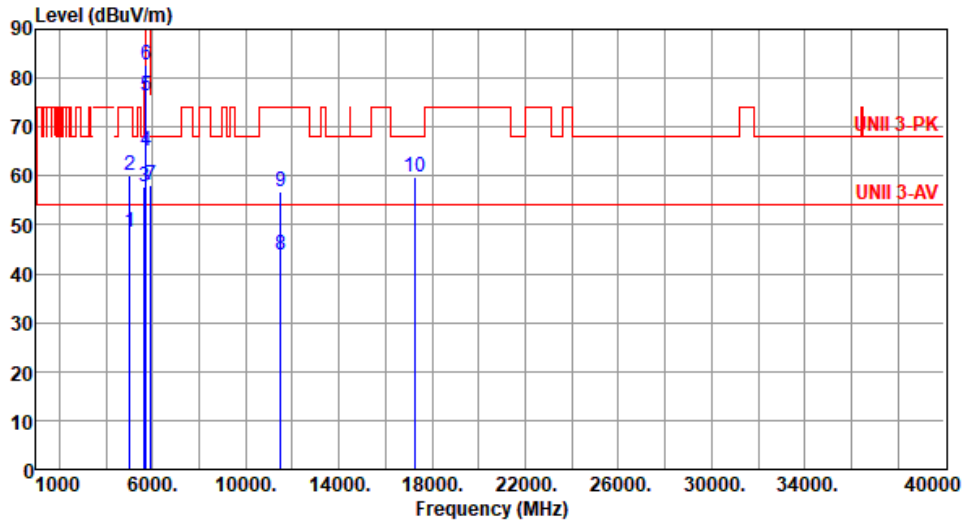
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):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	5027.00	48.41	54.00	-5.59	44.29	4.12	Average	112	311
2	5027.00	60.12	74.00	-13.88	56.00	4.12	Peak	112	311
3	5650.00	57.66	68.20	-10.54	52.85	4.81	Peak	133	64
4	5700.00	64.95	105.20	-40.25	59.93	5.02	Peak	133	64
5	5720.00	76.51	110.80	-34.29	71.37	5.14	Peak	133	64
6	5725.00	82.64	122.20	-39.56	77.47	5.17	Peak	133	64
7	5925.00	58.28	68.20	-9.92	52.67	5.61	Peak	133	64
8	11490.00	43.78	54.00	-10.22	29.39	14.39	Average	100	17
9	11490.00	56.79	74.00	-17.21	42.40	14.39	Peak	100	17
10	17235.00	59.82	68.20	-8.38	42.36	17.46	Peak	100	23

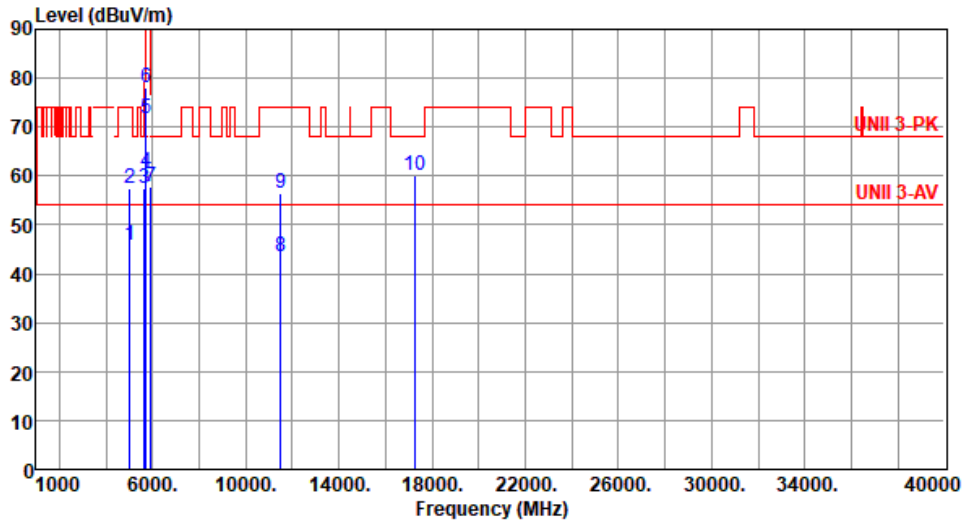
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5027.00	45.79	54.00	-8.21	41.67	4.12	Average	153	74
2	5027.00	57.51	74.00	-16.49	53.39	4.12	Peak	153	74
3	5650.00	57.42	68.20	-10.78	52.61	4.81	Peak	153	74
4	5700.00	60.92	105.20	-44.28	55.90	5.02	Peak	153	74
5	5720.00	71.65	110.80	-39.15	66.51	5.14	Peak	153	74
6	5725.00	78.05	122.20	-44.15	72.88	5.17	Peak	153	74
7	5925.00	57.87	68.20	-10.33	52.26	5.61	Peak	153	74
8	11490.00	43.55	54.00	-10.45	29.16	14.39	Average	100	335
9	11490.00	56.53	74.00	-17.47	42.14	14.39	Peak	100	335
10	17235.00	60.20	68.20	-8.00	42.74	17.46	Peak	100	330

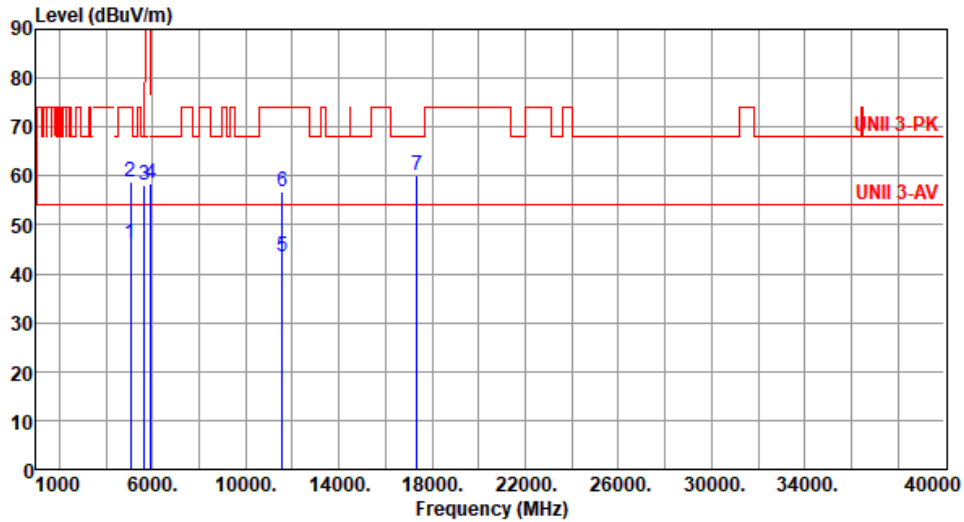
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Brad Wu Temperature(°C):24 Humidity(%):65

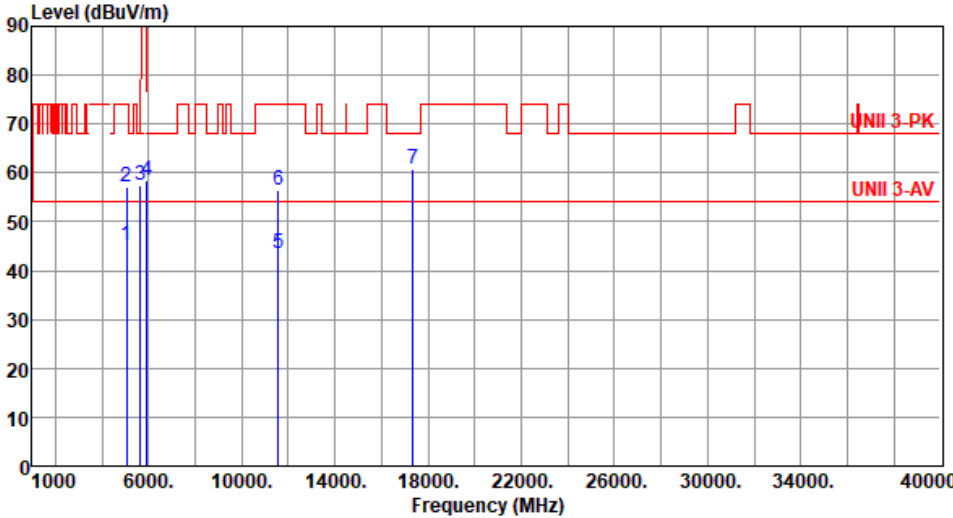


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5062.00	46.17	54.00	-7.83	41.85	4.32	Average	129	64
2	5062.00	58.73	74.00	-15.27	54.41	4.32	Peak	129	64
3	5650.00	58.10	68.20	-10.10	53.29	4.81	Peak	129	64
4	5925.00	58.54	68.20	-9.66	52.93	5.61	Peak	129	64
5	11570.00	43.63	54.00	-10.37	29.38	14.25	Average	100	17
6	11570.00	56.68	74.00	-17.32	42.43	14.25	Peak	100	17
7	17355.00	60.19	68.20	-8.01	42.28	17.91	Peak	100	20

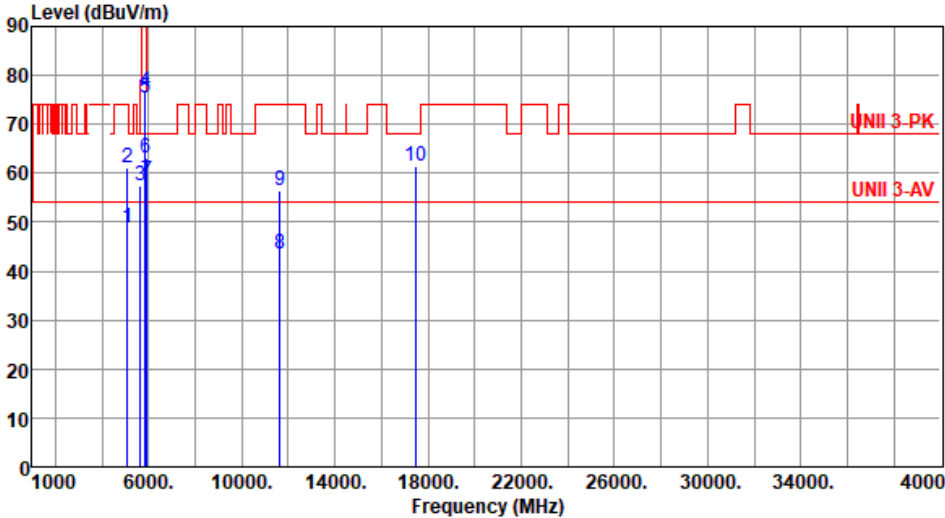
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5785						
Polarization	Vertical								
Test By	:Brad Wu	Temperature(°C):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	5062.00	45.25	54.00	-8.75	40.93	4.32	Average	166	70
2	5062.00	57.02	74.00	-16.98	52.70	4.32	Peak	166	70
3	5650.00	57.37	68.20	-10.83	52.56	4.81	Peak	166	70
4	5925.00	58.29	68.20	-9.91	52.68	5.61	Peak	166	70
5	11570.00	43.45	54.00	-10.55	29.20	14.25	Average	100	332
6	11570.00	56.41	74.00	-17.59	42.16	14.25	Peak	100	332
7	17355.00	60.80	68.20	-7.40	42.89	17.91	Peak	100	339
<p>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).</p>									

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By	:Brad Wu	Temperature(°C):24	Humidity(%) :65

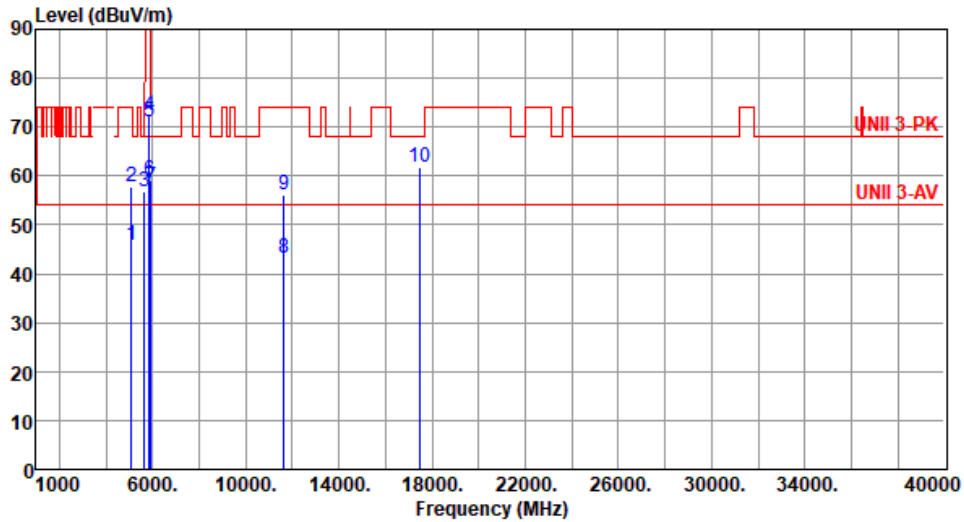


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5097.00	48.96	54.00	-5.04	44.20	4.76	Average	115	316
2	5097.00	61.24	74.00	-12.76	56.48	4.76	Peak	115	316
3	5650.00	57.31	68.20	-10.89	52.50	4.81	Peak	132	63
4	5850.00	76.78	122.20	-45.42	71.13	5.65	Peak	132	63
5	5855.00	75.50	110.80	-35.30	69.85	5.65	Peak	132	63
6	5875.00	63.18	105.20	-42.02	57.52	5.66	Peak	132	63
7	5925.00	58.48	68.20	-9.72	52.87	5.61	Peak	132	63
8	11650.00	43.40	54.00	-10.60	29.50	13.90	Average	100	14
9	11650.00	56.43	74.00	-17.57	42.53	13.90	Peak	100	14
10	17475.00	61.38	68.20	-6.82	42.83	18.55	Peak	100	23

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	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Brad Wu Temperature(°C):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	5097.00	45.77	54.00	-8.23	41.01	4.76	Average	152	78
2	5097.00	57.88	74.00	-16.12	53.12	4.76	Peak	152	78
3	5650.00	56.82	68.20	-11.38	52.01	4.81	Peak	152	78
4	5850.00	72.44	122.20	-49.76	66.79	5.65	Peak	152	78
5	5855.00	71.06	110.80	-39.74	65.41	5.65	Peak	152	78
6	5875.00	58.96	105.20	-46.24	53.30	5.66	Peak	152	78
7	5925.00	57.87	68.20	-10.33	52.26	5.61	Peak	152	78
8	11650.00	43.12	54.00	-10.88	29.22	13.90	Average	100	335
9	11650.00	56.27	74.00	-17.73	42.37	13.90	Peak	100	335
10	17475.00	61.71	68.20	-6.49	43.16	18.55	Peak	100	332

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).