FCC Test Report

FCC ID	:	**ACQ-VIP7802ATSC**
Equipment	:	**WiFi Set Top Box**
Model No.	:	**VIP7802ATSC**
Brand Name	:	**ARRIS**
Applicant	:	**ARRIS**
Address	:	**101 Tournament Drive, Horsham, Pennsylvania, United States 19044**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Nov. 30, 2021**
Tested Date	:	**Dec. 29, 2021 ~ Jan. 19, 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
FR1N3001AN	Rev. 01	Initial issue	Feb. 10, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 1.411MHz 42.13 (Margin -3.87dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5350.00MHz 52.98 (Margin -1.02dB) – AV 5470.00MHz 67.18 (Margin -1.02dB) - 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]: ***Non-beamforming mode*** 5150~5250MHz: 23.08 5250~5350MHz: 23.40 5470~5725MHz: 23.03 5725~5850MHz: 23.07 ***Beamforming mode*** 5150~5250MHz: 20.07 5250~5350MHz: 20.39 5470~5725MHz: 20.02 5725~5850MHz: 20.00	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

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-11
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: Chip feature: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation Note 3: 802.11ax supports beamforming function. Note 4: 802.11ax supports full and partial loaded RU configuration.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Ant 1	Dipole	U.FL	4.5	3.8	4.5	5.1	5
2	Ant 2	Dipole	U.FL	4.5	4.3	4.6	4.1	4.8

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	Adapter	Brand: APD Model: WB-18R12FU-ABAK Power Rating: I/P: 100-120Vac, 60Hz O/P: 12V⎓1.5A Power Line: 1.75m non-shielded without core
2	Remote Control	Model: T4HU2120/36K

1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
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	**802.11ac VHT80 / ax HE80**	
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	accessMTool, Version: 3.1.0.2		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	96.00%	0.18
	ax HE20	99.04%	0.04
	ax HE40	97.30%	0.12
	ax HE80	95.10%	0.22

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	72
11a	5200	78
11a	5240	78
11a	5260	76
11a	5300	76
11a	5320	70
11a	5500	66
11a	5580	76
11a	5700	62
11a	5720	78
11a	5745	82
11a	5785	82
11a	5825	82
ax HE20	5180	70
ax HE20	5200	78
ax HE20	5240	78
ax HE20	5260	78
ax HE20	5300	78
ax HE20	5320	70
ax HE20	5500	62
ax HE20	5580	78
ax HE20	5700	54
ax HE20	5720	78
ax HE20	5745	80
ax HE20	5785	80
ax HE20	5825	80

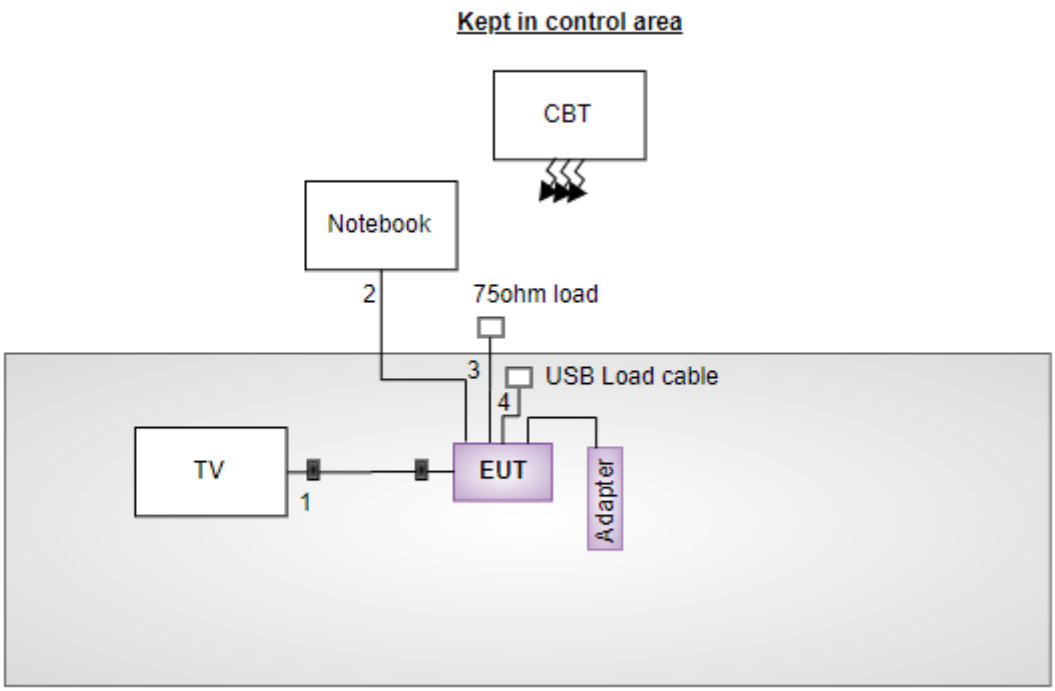
ax HE40	5190	54
ax HE40	5230	76
ax HE40	5270	78
ax HE40	5310	54
ax HE40	5510	50
ax HE40	5590	78
ax HE40	5670	68
ax HE40	5710	78
ax HE40	5755	78
ax HE40	5795	78
ax HE80	5210	52
ax HE80	5290	52
ax HE80	5530	50
ax HE80	5610	78
ax HE80	5690	80
ax HE80	5775	80

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	---	---
2	TV	CHIMEI	TL-24LF500D	---	---
3	75ohm load	ICC	75 ohm load	---	Provided by applicant.
4	Debug Board	---	---	---	---
5	USB Load cable	---	---	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1	HDMI, 1m shielded with tow cores..
2	RJ45, 10m non-shielded.
3	Coaxial, 1m non-shielded with load.
4	USB cable, 0.2m non-shielded with load

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jan. 18, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	Feb .25, 2021	Feb .24, 2022
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Dec. 29, 2021 ~ Jan. 06, 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 9170517	Nov. 04, 2021	Nov. 03, 2022
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-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-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.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jan. 18 ~ Jan. 19, 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
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10	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 ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB
Time	±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**
Non-beamforming mode				
Conducted Emissions	ax HE40	5270	MCS 0	---
Radiated Emissions ≤1GHz	ax HE40	5270	MCS 0	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5260	---	---
Beamforming mode				
RF Output Power	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	

Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Non-beamforming mode				
Conducted Emissions	11a	5785	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5785	6 Mbps	---
RF Output Power Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
RF Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	---
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	

3 Transmitter Test Results

3.1 Conducted Emissions

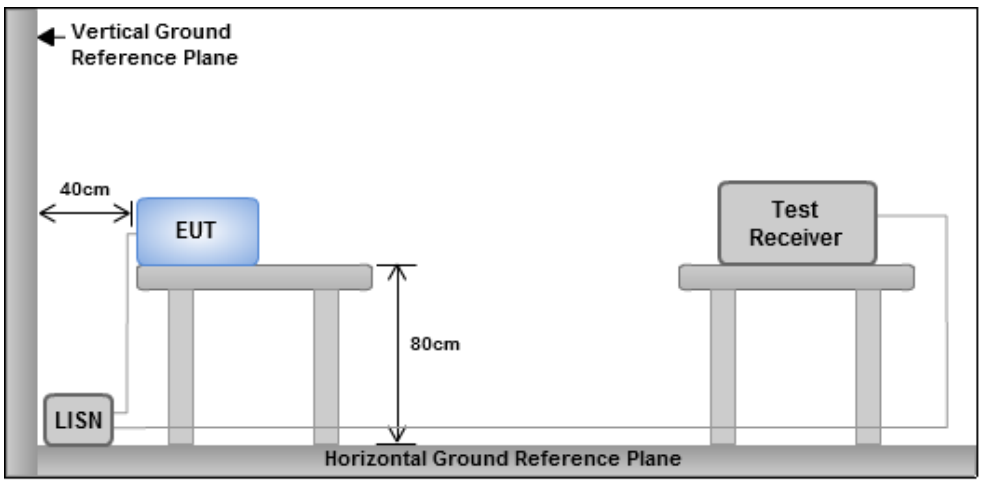
3.1.1 Limit of Conducted Emissions

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



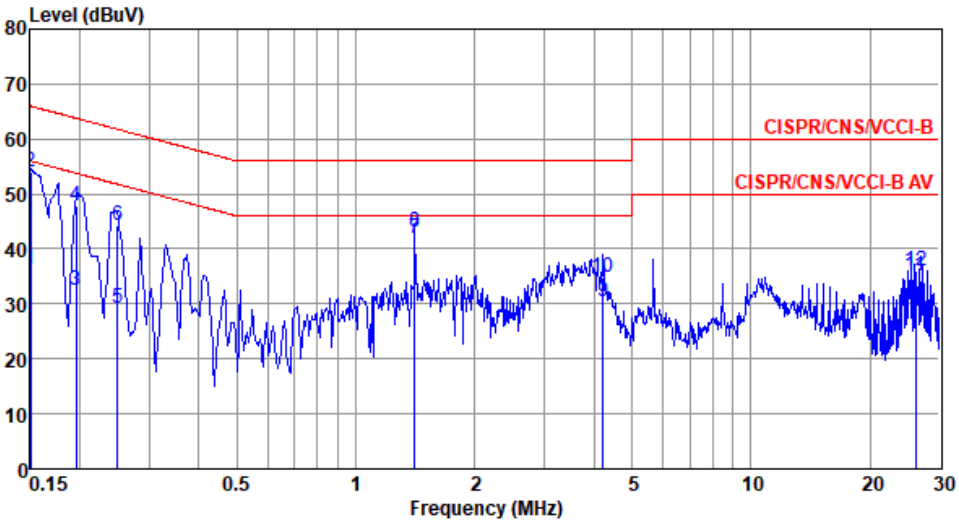
Note: 1. Support units were connected to second LISN.

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	ax HE40	Test Freq. (MHz)	5270
Power Phase	Line		

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

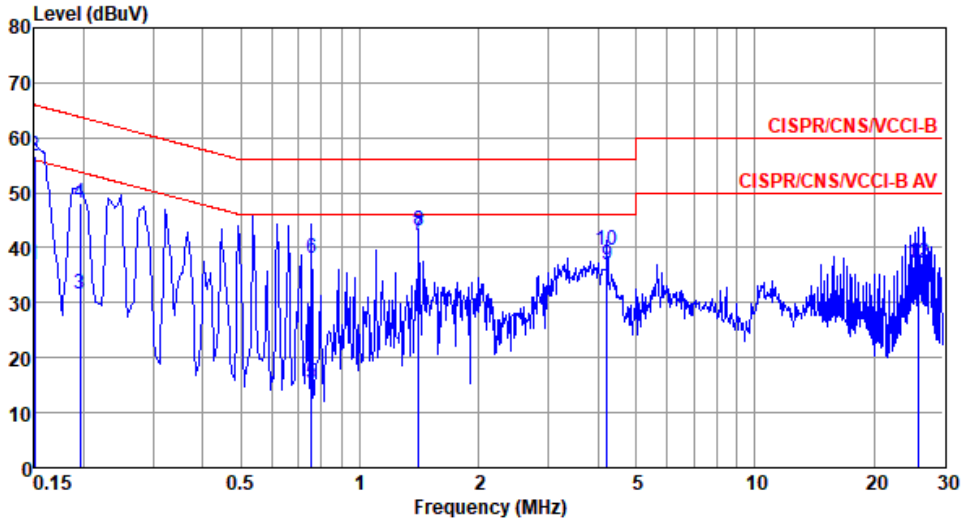


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	36.17	56.00	-19.83	26.23	9.66	0.08	0.20	Average
2	0.150	53.93	66.00	-12.07	43.99	9.66	0.08	0.20	QP
3	0.195	32.61	53.80	-21.19	22.66	9.65	0.08	0.22	Average
4	0.195	47.82	63.80	-15.98	37.87	9.65	0.08	0.22	QP
5	0.249	29.30	51.78	-22.48	19.31	9.65	0.08	0.26	Average
6	0.249	44.33	61.78	-17.45	34.34	9.65	0.08	0.26	QP
7*	1.411	41.84	46.00	-4.16	31.63	9.65	0.18	0.38	Average
8	1.411	43.16	56.00	-12.84	32.95	9.65	0.18	0.38	QP
9	4.224	30.26	46.00	-15.74	19.95	9.67	0.22	0.42	Average
10	4.224	34.72	56.00	-21.28	24.41	9.67	0.22	0.42	QP
11	26.060	35.07	50.00	-14.93	23.99	9.65	0.71	0.72	Average
12	26.060	35.90	60.00	-24.10	24.82	9.65	0.71	0.72	QP

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

Modulation	ax HE40	Test Freq. (MHz)	5270
Power Phase	Neutral		

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

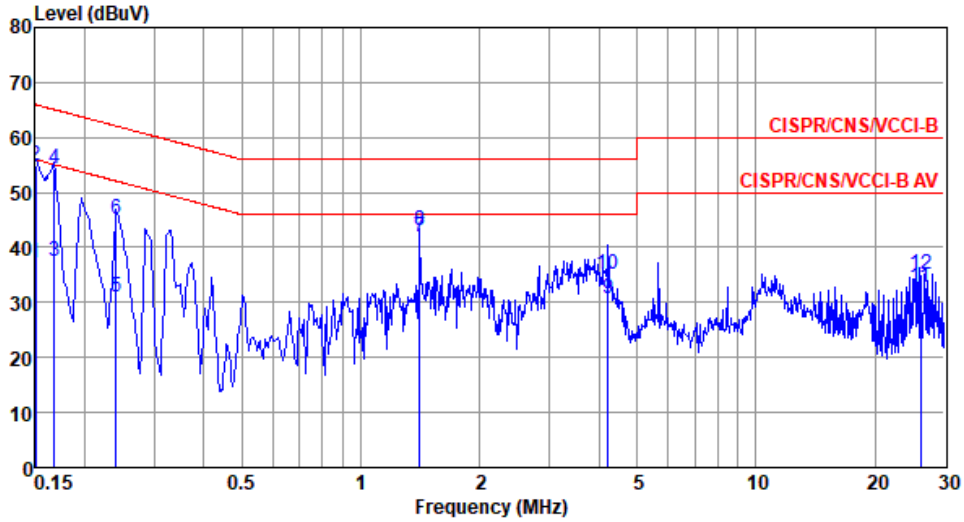


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	36.98	56.00	-19.02	27.05	9.69	0.08	0.16	Average
2	0.150	56.65	66.00	-9.35	46.72	9.69	0.08	0.16	QP
3	0.195	31.72	53.80	-22.08	21.78	9.68	0.08	0.18	Average
4	0.195	48.25	63.80	-15.55	38.31	9.68	0.08	0.18	QP
5	0.755	15.35	46.00	-30.65	5.28	9.68	0.14	0.25	Average
6	0.755	38.07	56.00	-17.93	28.00	9.68	0.14	0.25	QP
7*	1.411	42.13	46.00	-3.87	31.98	9.68	0.18	0.29	Average
8	1.411	42.96	56.00	-13.04	32.81	9.68	0.18	0.29	QP
9	4.228	36.93	46.00	-9.07	26.68	9.70	0.22	0.33	Average
10	4.228	39.57	56.00	-16.43	29.32	9.70	0.22	0.33	QP
11	25.922	31.89	50.00	-18.11	20.75	9.85	0.71	0.58	Average
12	25.922	37.05	60.00	-22.95	25.91	9.85	0.71	0.58	QP

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

Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line		

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

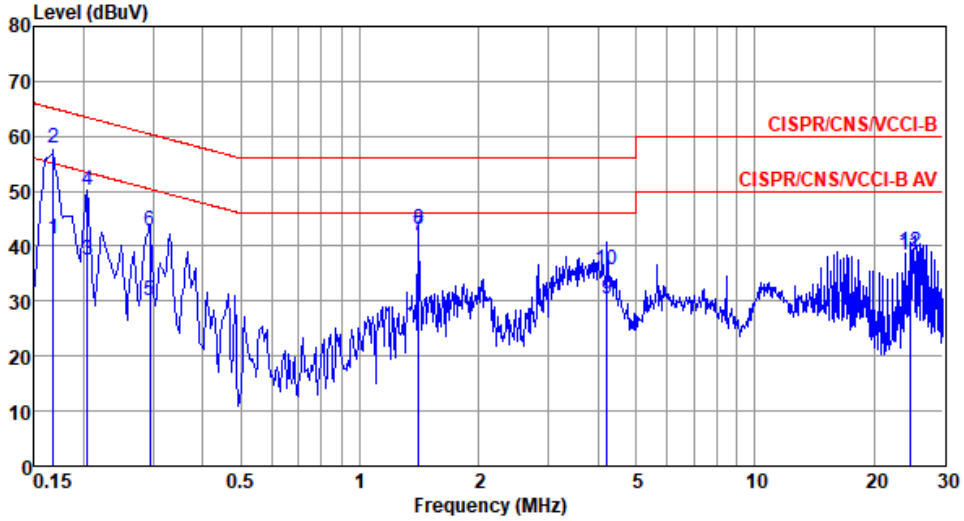


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	37.23	56.00	-18.77	27.29	9.66	0.08	0.20	Average
2	0.150	54.95	66.00	-11.05	45.01	9.66	0.08	0.20	QP
3	0.168	37.36	55.08	-17.72	27.41	9.66	0.08	0.21	Average
4	0.168	54.22	65.08	-10.86	44.27	9.66	0.08	0.21	QP
5	0.240	30.96	52.08	-21.12	20.97	9.65	0.08	0.26	Average
6	0.240	45.17	62.08	-16.91	35.18	9.65	0.08	0.26	QP
7*	1.411	41.84	46.00	-4.16	31.63	9.65	0.18	0.38	Average
8	1.411	43.12	56.00	-12.88	32.91	9.65	0.18	0.38	QP
9	4.224	30.84	46.00	-15.16	20.53	9.67	0.22	0.42	Average
10	4.224	35.26	56.00	-20.74	24.95	9.67	0.22	0.42	QP
11	26.052	32.87	50.00	-17.13	21.79	9.65	0.71	0.72	Average
12	26.052	35.08	60.00	-24.92	24.00	9.65	0.71	0.72	QP

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

Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Neutral		

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



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.168	41.32	55.08	-13.76	31.38	9.69	0.08	0.17	Average
2	0.168	57.74	65.08	-7.34	47.80	9.69	0.08	0.17	QP
3	0.204	37.39	53.45	-16.06	27.45	9.68	0.08	0.18	Average
4	0.204	50.08	63.45	-13.37	40.14	9.68	0.08	0.18	QP
5	0.294	30.07	50.41	-20.34	20.13	9.67	0.08	0.19	Average
6	0.294	42.69	60.41	-17.72	32.75	9.67	0.08	0.19	QP
7*	1.411	41.95	46.00	-4.05	31.80	9.68	0.18	0.29	Average
8	1.411	42.98	56.00	-13.02	32.83	9.68	0.18	0.29	QP
9	4.224	30.51	46.00	-15.49	20.26	9.70	0.22	0.33	Average
10	4.224	35.61	56.00	-20.39	25.36	9.70	0.22	0.33	QP
11	24.662	38.32	50.00	-11.68	27.26	9.85	0.69	0.52	Average
12	24.662	38.98	60.00	-21.02	27.92	9.85	0.69	0.52	QP

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

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.

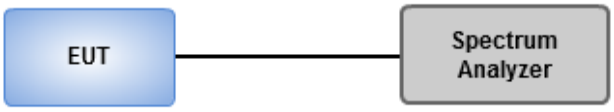
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 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	21°C / 66%	Tested By	Aska Huang

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	37.971M	18.017M	18M0D1D	25.362M	16.715M
11AX20_Nss1,(MCS0)_2TX	42.826M	19.537M	19M5D1D	24.928M	19.175M
11AX40_Nss1,(MCS0)_2TX	78.696M	38.205M	38M2D1D	39.855M	37.482M
11AX80_Nss1,(MCS0)_2TX	81.449M	76.99M	77M0D1D	81.159M	76.99M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	35.725M	17.438M	17M4D1D	24.638M	16.787M
11AX20_Nss1,(MCS0)_2TX	39.71M	19.392M	19M4D1D	23.623M	19.103M
11AX40_Nss1,(MCS0)_2TX	85.217M	38.495M	38M5D1D	39.855M	37.482M
11AX80_Nss1,(MCS0)_2TX	81.739M	76.99M	77M0D1D	81.449M	76.99M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	28.986M	17.149M	17M1D1D	18.87M	13.719M
11AX20_Nss1,(MCS0)_2TX	39.275M	19.32M	19M3D1D	20.043M	14.674M
11AX40_Nss1,(MCS0)_2TX	81.884M	38.495M	38M5D1D	40M	33.936M
11AX80_Nss1,(MCS0)_2TX	144.928M	77.858M	77M9D1D	82.029M	73.589M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.377M	19.826M	19M8D1D	3.188M	7.525M
11AX20_Nss1,(MCS0)_2TX	18.986M	19.609M	19M6D1D	4.406M	8.799M
11AX40_Nss1,(MCS0)_2TX	37.536M	38.495M	38M5D1D	3.768M	22.46M
11AX80_Nss1,(MCS0)_2TX	76.522M	78.437M	78M4D1D	3.478M	34.385M

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

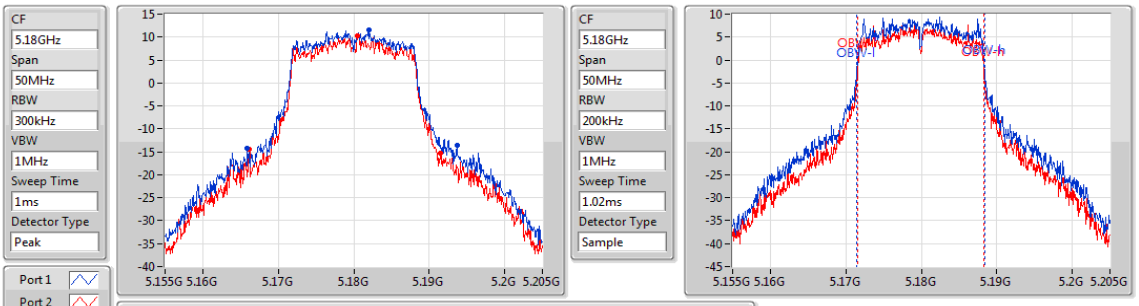
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	27.826M	16.932M	25.362M	16.715M
5200MHz	Pass	Inf	37.246M	18.017M	31.667M	17.366M
5240MHz	Pass	Inf	37.971M	17.873M	32.464M	17.583M
5260MHz	Pass	Inf	31.232M	17.294M	33.551M	17.294M
5300MHz	Pass	Inf	35.725M	17.438M	28.841M	17.294M
5320MHz	Pass	Inf	25.725M	16.787M	24.638M	16.787M
5500MHz	Pass	Inf	21.377M	16.643M	21.304M	16.57M
5580MHz	Pass	Inf	28.116M	17.149M	28.986M	17.004M
5700MHz	Pass	Inf	21.449M	16.715M	21.522M	16.715M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	21.261M	14.11M	18.87M	13.719M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.188M	9.204M	3.188M	7.525M
5745MHz	Pass	500k	16.377M	19.826M	16.304M	19.103M
5785MHz	Pass	500k	16.377M	19.682M	16.377M	19.03M
5825MHz	Pass	500k	16.304M	19.537M	16.304M	18.09M
11AX20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	27.464M	19.175M	24.928M	19.175M
5200MHz	Pass	Inf	42.826M	19.537M	37.464M	19.247M
5240MHz	Pass	Inf	41.449M	19.392M	34.203M	19.247M
5260MHz	Pass	Inf	38.261M	19.392M	39.13M	19.392M
5300MHz	Pass	Inf	39.71M	19.392M	36.739M	19.32M
5320MHz	Pass	Inf	28.261M	19.175M	23.623M	19.103M
5500MHz	Pass	Inf	21.594M	19.03M	21.449M	19.03M
5580MHz	Pass	Inf	37.754M	19.32M	39.275M	19.247M
5700MHz	Pass	Inf	21.377M	19.03M	21.377M	19.03M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.826M	14.805M	20.043M	14.674M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.406M	10.304M	4.406M	8.799M
5745MHz	Pass	500k	18.913M	19.609M	18.551M	19.537M
5785MHz	Pass	500k	18.913M	19.609M	18.188M	19.392M
5825MHz	Pass	500k	18.986M	19.537M	18.841M	19.32M
11AX40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.482M	39.855M	37.627M
5230MHz	Pass	Inf	78.696M	38.205M	70.725M	37.916M
5270MHz	Pass	Inf	81.739M	38.495M	85.217M	38.35M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5310MHz	Pass	Inf	39.855M	37.482M	40.145M	37.482M
5510MHz	Pass	Inf	40M	37.482M	40M	37.627M
5590MHz	Pass	Inf	75.797M	38.495M	81.884M	38.061M
5670MHz	Pass	Inf	40M	37.627M	40.145M	37.482M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	57.725M	34.038M	48.899M	33.936M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	23.965M	3.768M	22.46M
5755MHz	Pass	500k	37.246M	38.495M	37.536M	38.205M
5795MHz	Pass	500k	37.391M	38.35M	37.536M	38.061M
11AX80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.159M	76.99M	81.449M	76.99M
5290MHz	Pass	Inf	81.449M	76.99M	81.739M	76.99M
5530MHz	Pass	Inf	82.319M	76.99M	82.029M	77.279M
5610MHz	Pass	Inf	144.928M	77.569M	143.478M	77.858M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	111.739M	73.806M	111.522M	73.589M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	35.137M	3.478M	34.385M
5775MHz	Pass	500k	76.522M	78.437M	75.362M	77.858M

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**

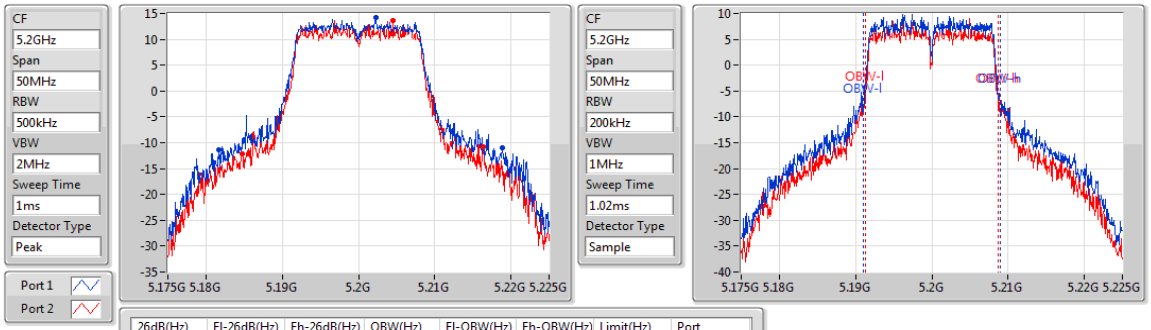
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.826M	5.16587G	5.193696G	16.932M	5.171462G	5.188394G	Inf	1
25.362M	5.166159G	5.191522G	16.715M	5.171606G	5.188321G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

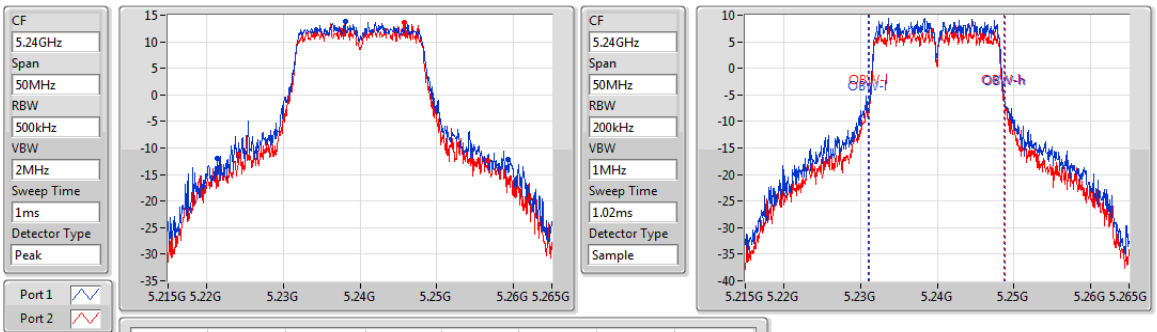
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.246M	5.181667G	5.218913G	18.017M	5.190955G	5.208973G	Inf	1
31.667M	5.18471G	5.216377G	17.366M	5.191317G	5.208683G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

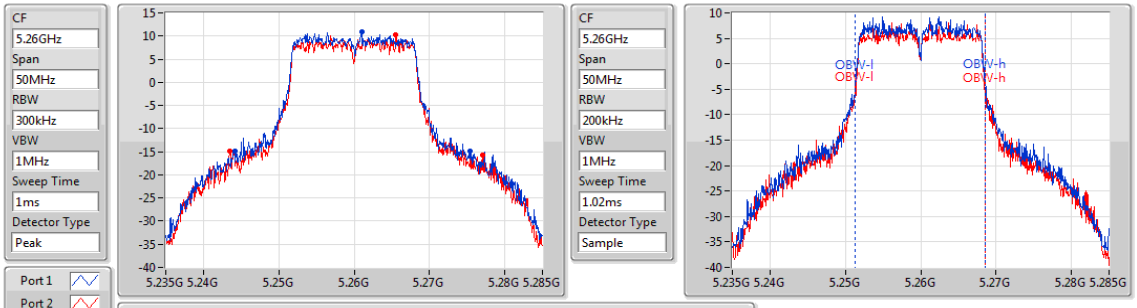
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.971M	5.221377G	5.259348G	17.873M	5.230955G	5.248828G	Inf	1
32.464M	5.224203G	5.256667G	17.583M	5.231172G	5.248755G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

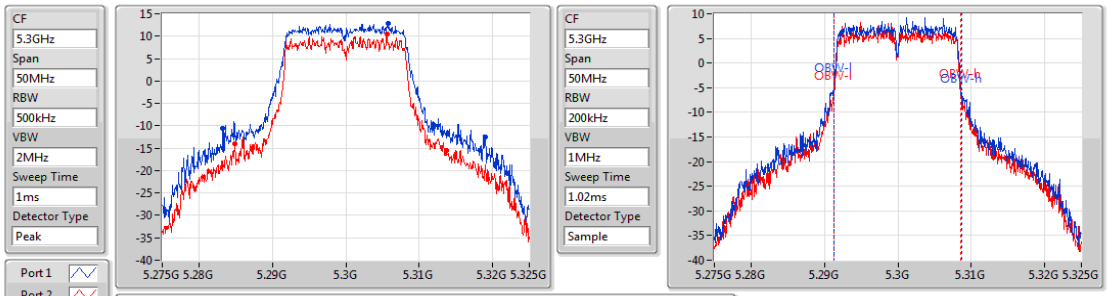
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.232M	5.24413G	5.275362G	17.294M	5.251317G	5.268611G	Inf	1
33.551M	5.243478G	5.277029G	17.294M	5.251317G	5.268611G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

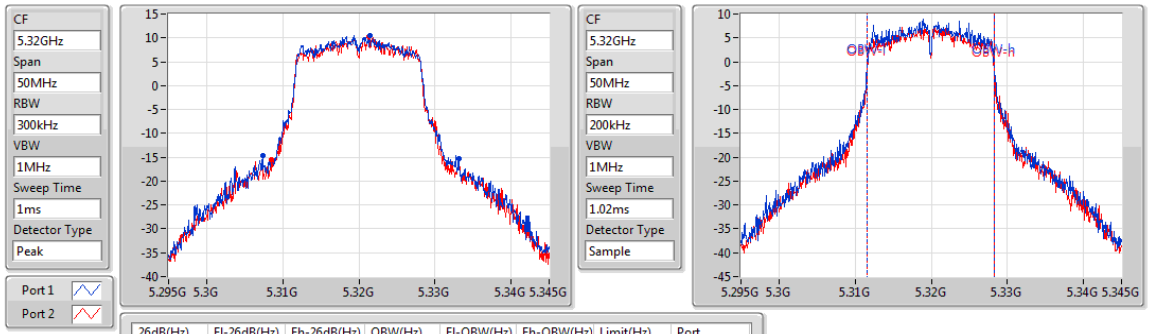
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.725M	5.283261G	5.318986G	17.438M	5.291245G	5.308683G	Inf	1
28.841M	5.284855G	5.313696G	17.294M	5.291317G	5.308611G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

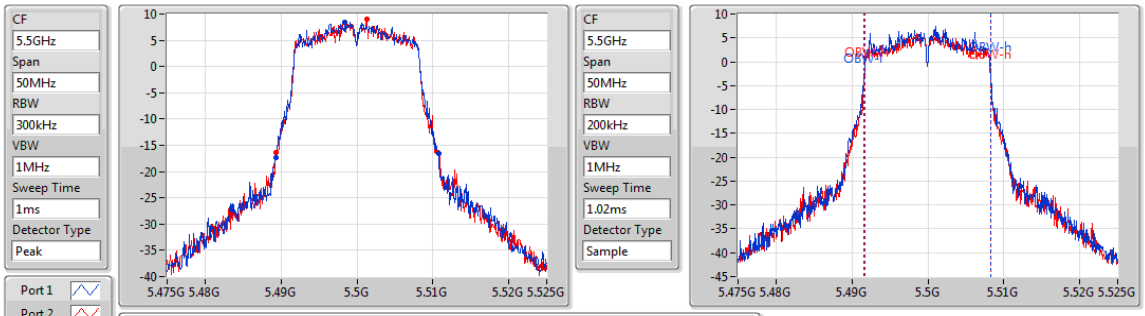
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.725M	5.307391G	5.333116G	16.787M	5.311534G	5.328321G	Inf	1
24.638M	5.308478G	5.333116G	16.787M	5.311534G	5.328321G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

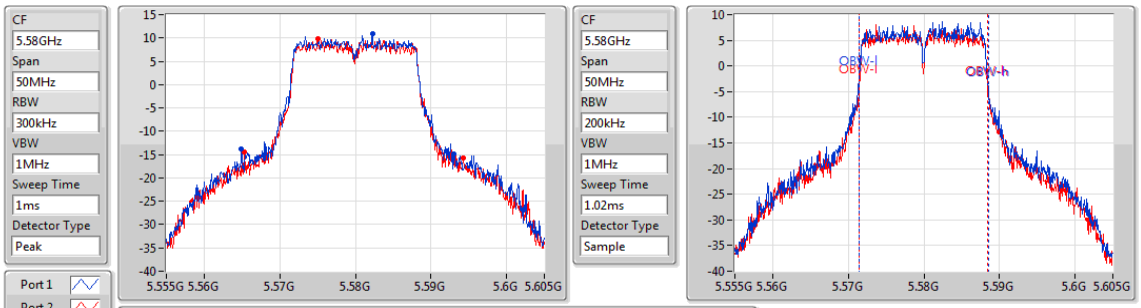
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.489348G	5.510725G	16.643M	5.491606G	5.508249G	Inf	1
21.304M	5.489348G	5.510652G	16.57M	5.491679G	5.508249G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

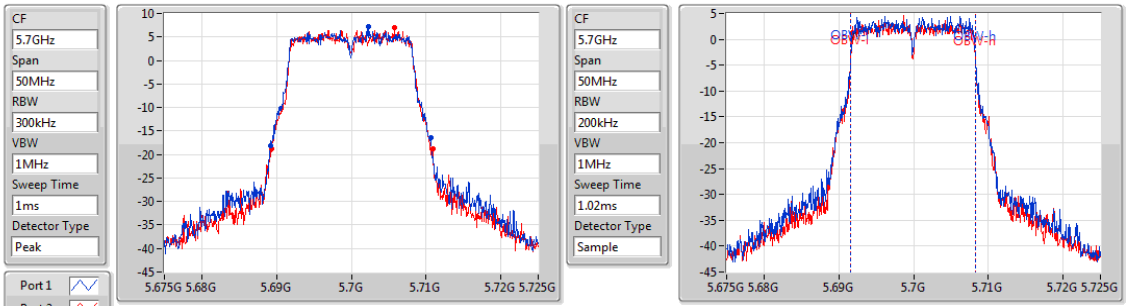
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.116M	5.564928G	5.593043G	17.149M	5.571389G	5.588538G	Inf	1
28.986M	5.56529G	5.594275G	17.004M	5.571462G	5.588466G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

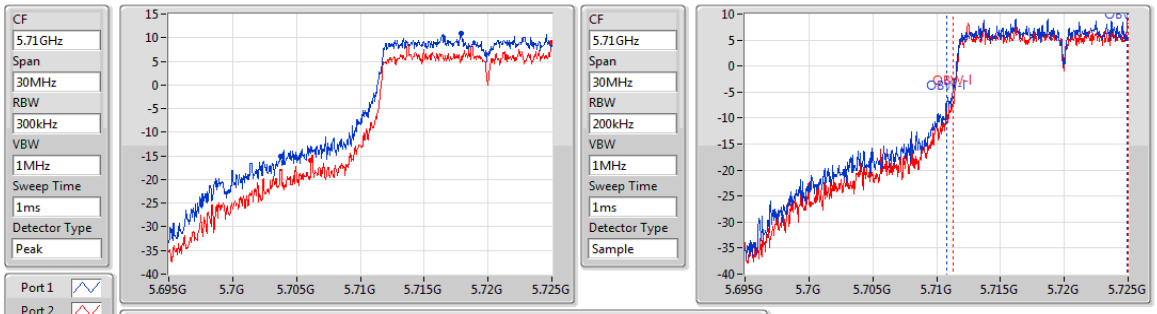
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.449M	5.689203G	5.710652G	16.715M	5.691606G	5.708321G	Inf	1
21.522M	5.689348G	5.71087G	16.715M	5.691606G	5.708321G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

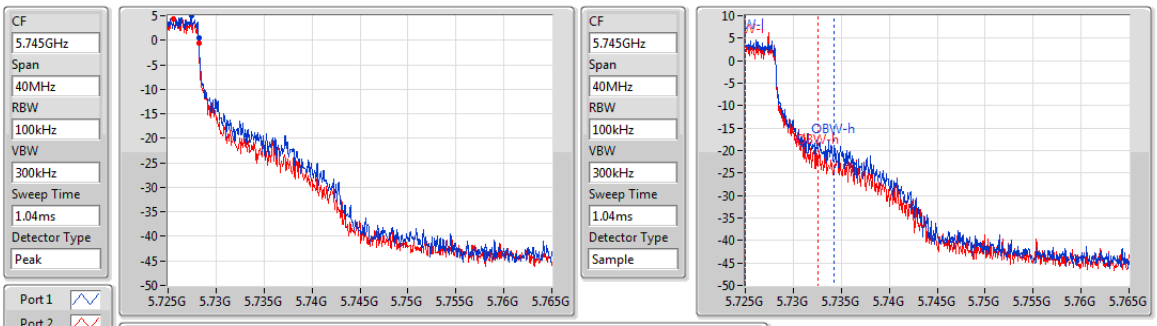
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.261M	5.703739G	5.725G	14.11M	5.710825G	5.724935G	Inf	1
18.87M	5.70613G	5.725G	13.719M	5.711259G	5.724978G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

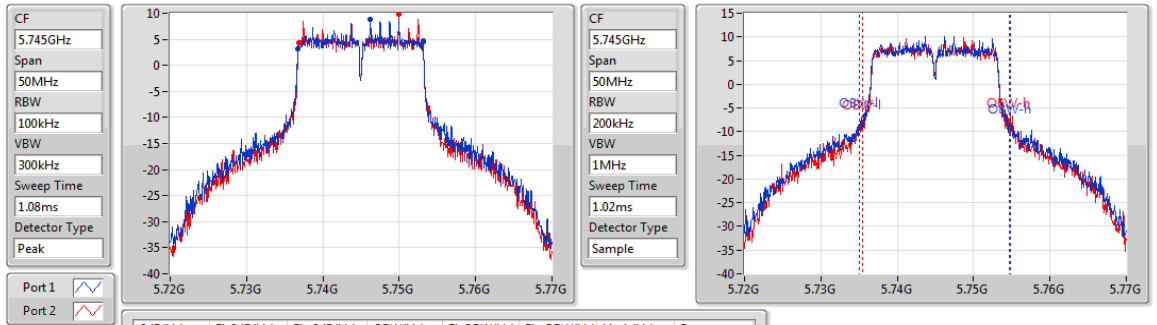
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.188M	5.725G	5.728188G	9.204M	5.725029G	5.734233G	500k	1
3.188M	5.725G	5.728188G	7.525M	5.725029G	5.732554G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

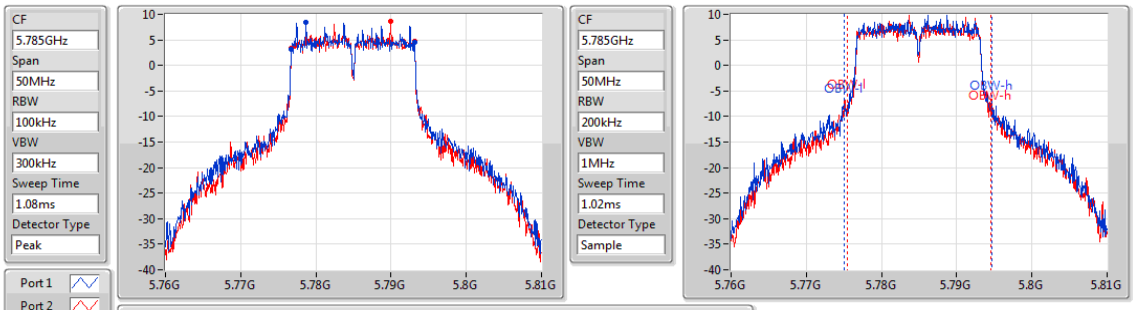
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.377M	5.736739G	5.753116G	19.826M	5.735014G	5.754841G	500k	1
16.304M	5.736812G	5.753116G	19.103M	5.735521G	5.754624G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

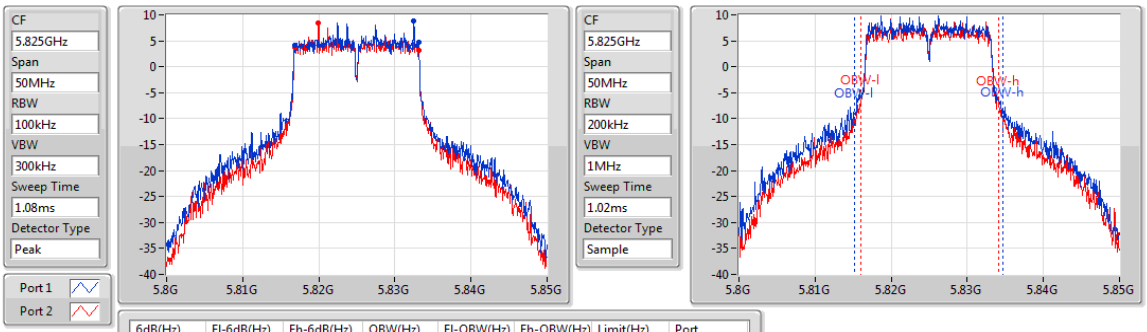
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.377M	5.776739G	5.793116G	19.682M	5.775014G	5.794696G	500k	1
16.377M	5.776739G	5.793116G	19.03M	5.775449G	5.794479G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

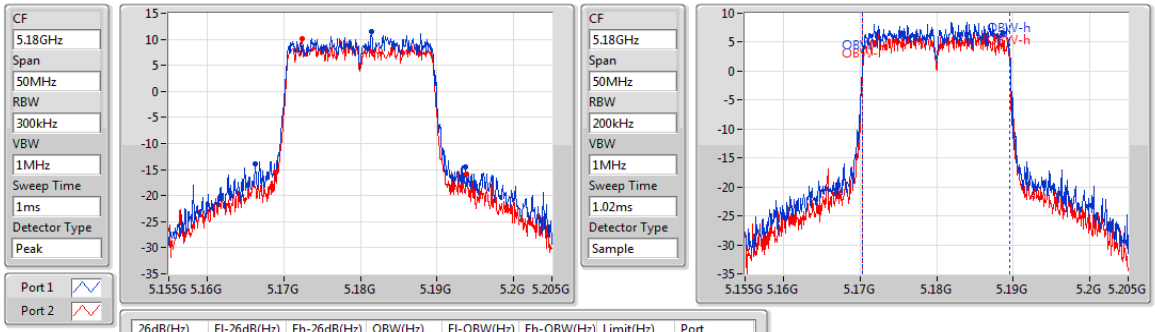
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.816812G	5.833116G	19.537M	5.815159G	5.834696G	500k	1
16.304M	5.816812G	5.833116G	18.09M	5.816027G	5.834117G	500k	2

11AX20_Nss1,(MCS0)_2TX **EBW**

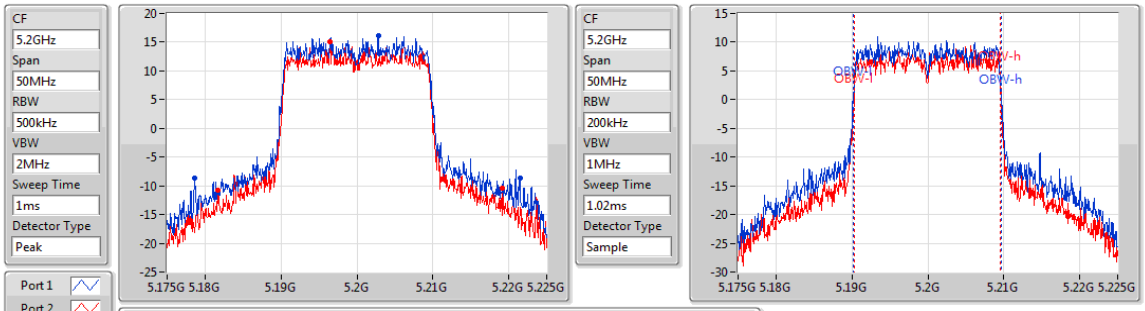
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.464M	5.166232G	5.193696G	19.175M	5.170376G	5.189551G	Inf	1
24.928M	5.168913G	5.193841G	19.175M	5.170376G	5.189551G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

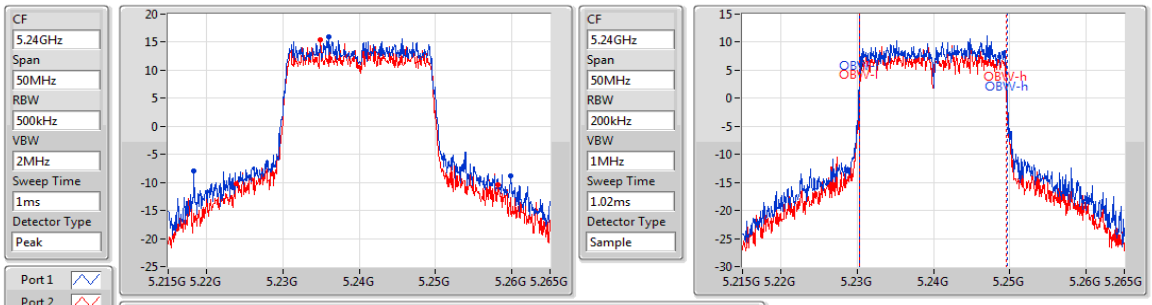
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.826M	5.178623G	5.221449G	19.537M	5.190159G	5.209696G	Inf	1
37.464M	5.181739G	5.219203G	19.247M	5.190304G	5.209551G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

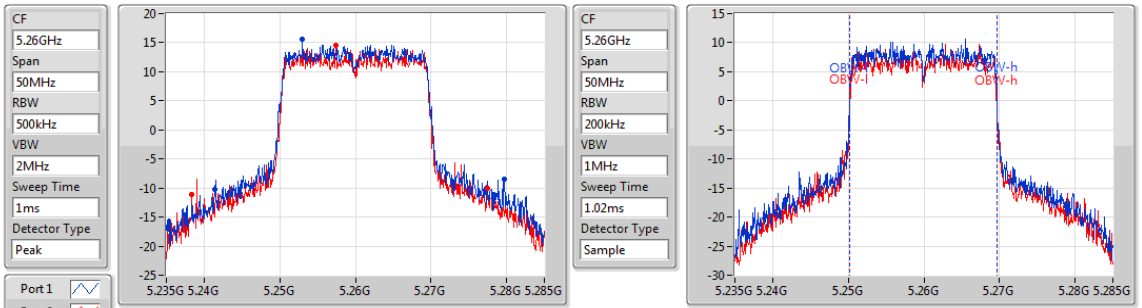
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.449M	5.218406G	5.259855G	19.392M	5.230304G	5.249696G	Inf	1
34.203M	5.223913G	5.258116G	19.247M	5.230304G	5.249551G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

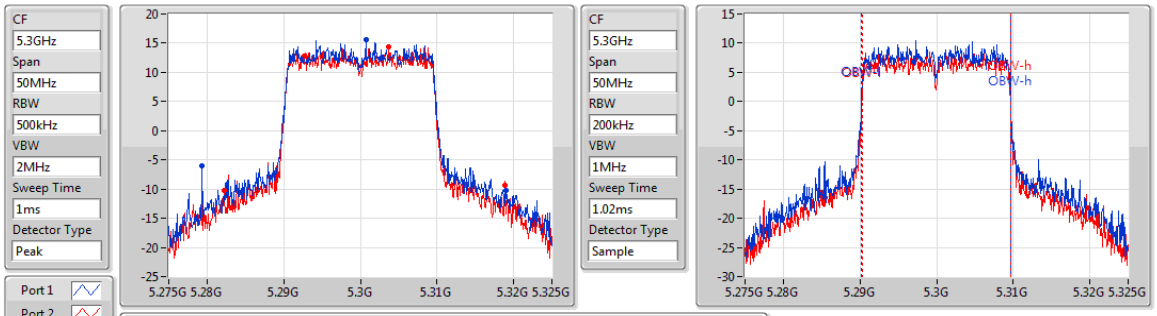
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.261M	5.241449G	5.27971G	19.392M	5.250232G	5.269624G	Inf	1
39.13M	5.238406G	5.277536G	19.392M	5.250232G	5.269624G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

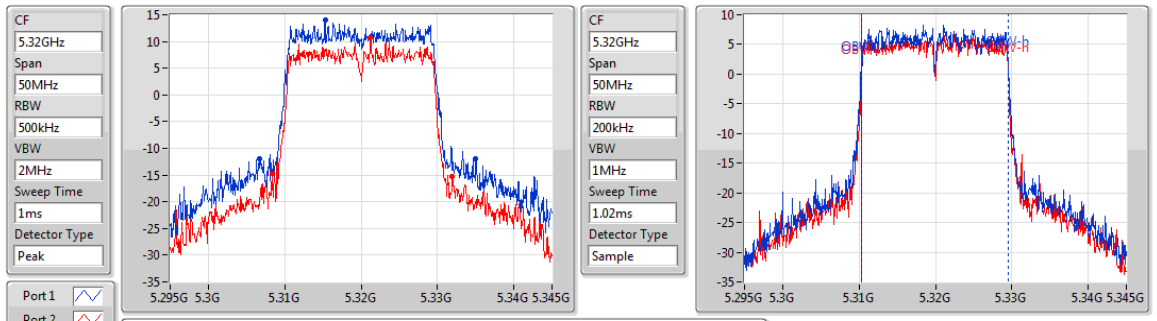
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.71M	5.279348G	5.319058G	19.392M	5.290232G	5.309624G	Inf	1
36.739M	5.282174G	5.318913G	19.32M	5.290304G	5.309624G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

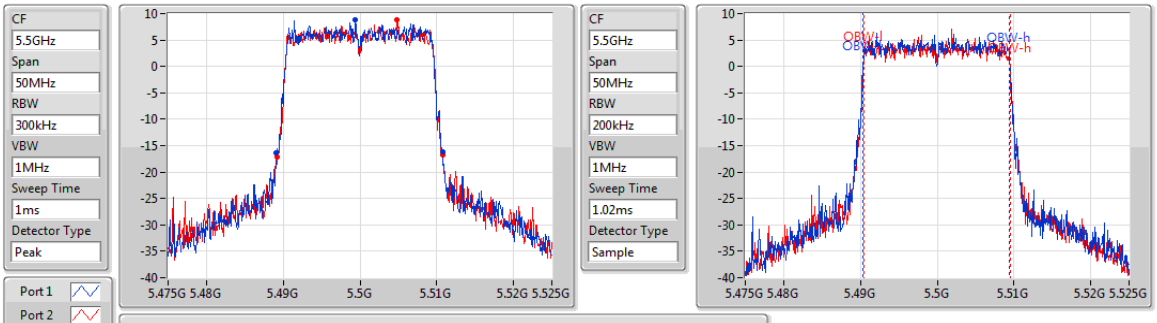
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.261M	5.306739G	5.335G	19.175M	5.310304G	5.329479G	Inf	1
23.623M	5.308333G	5.331957G	19.103M	5.310376G	5.329479G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

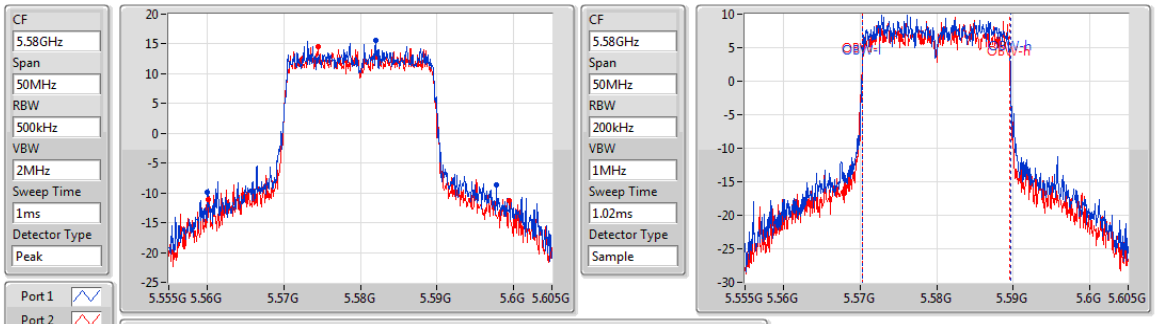
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.594M	5.48913G	5.510725G	19.03M	5.490376G	5.509407G	Inf	1
21.449M	5.489275G	5.510725G	19.03M	5.490449G	5.509479G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

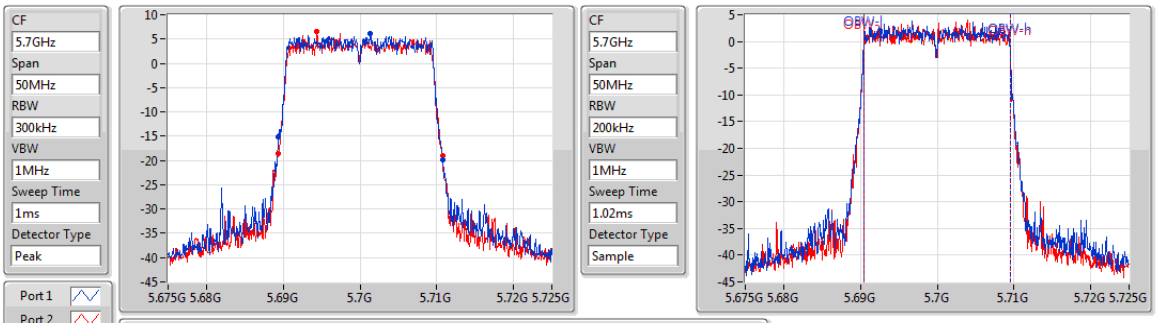
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.754M	5.560072G	5.597826G	19.32M	5.570304G	5.589624G	Inf	1
39.275M	5.560217G	5.599493G	19.247M	5.570304G	5.589551G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

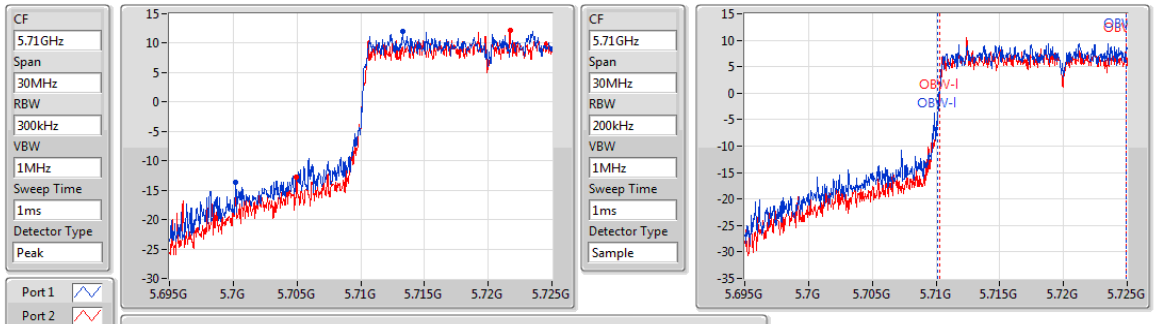
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.689348G	5.710725G	19.03M	5.690449G	5.709479G	Inf	1
21.377M	5.689348G	5.710725G	19.03M	5.690449G	5.709479G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

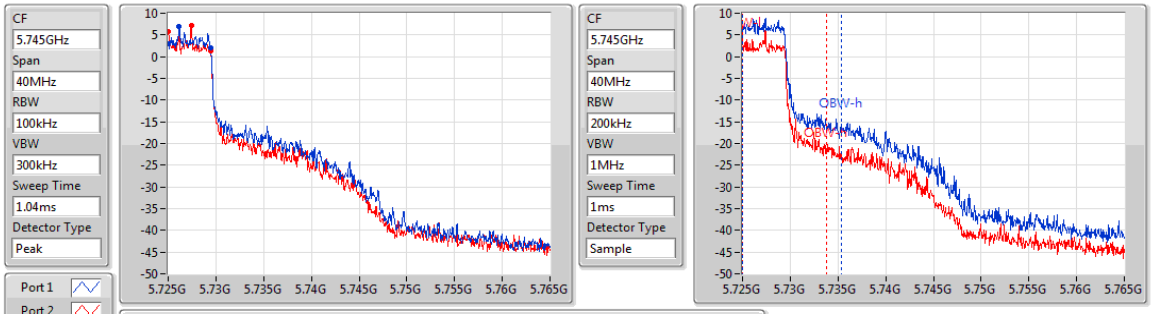
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.826M	5.700174G	5.725G	14.805M	5.71013G	5.724935G	Inf	1
20.043M	5.704957G	5.725G	14.674M	5.71026G	5.724935G	Inf	2

11AX20_Nss1,(MCS0)_2TX **EBW**

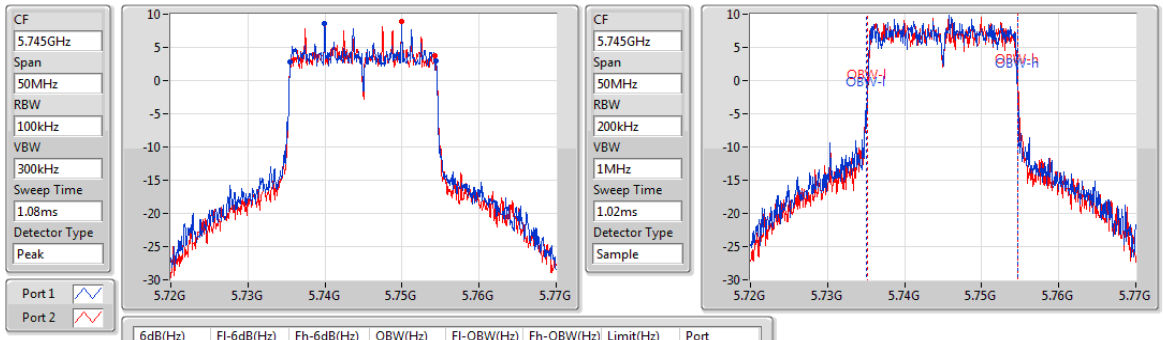
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.406M	5.725G	5.729406G	10.304M	5.725029G	5.735333G	500k	1
4.406M	5.725G	5.729406G	8.799M	5.725029G	5.733828G	500k	2

11AX20_Nss1,(MCS0)_2TX **EBW**

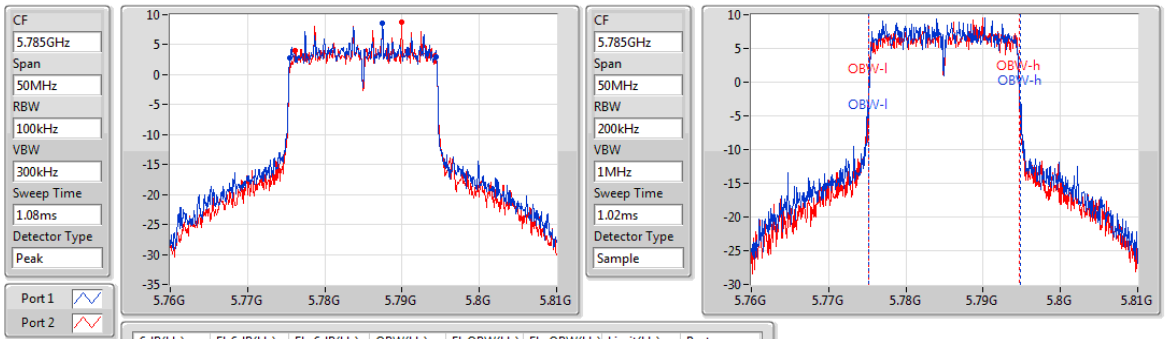
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.913M	5.735507G	5.75442G	19.609M	5.735014G	5.754624G	500k	1
18.551M	5.735725G	5.754275G	19.537M	5.735159G	5.754696G	500k	2

11AX20_Nss1,(MCS0)_2TX **EBW**

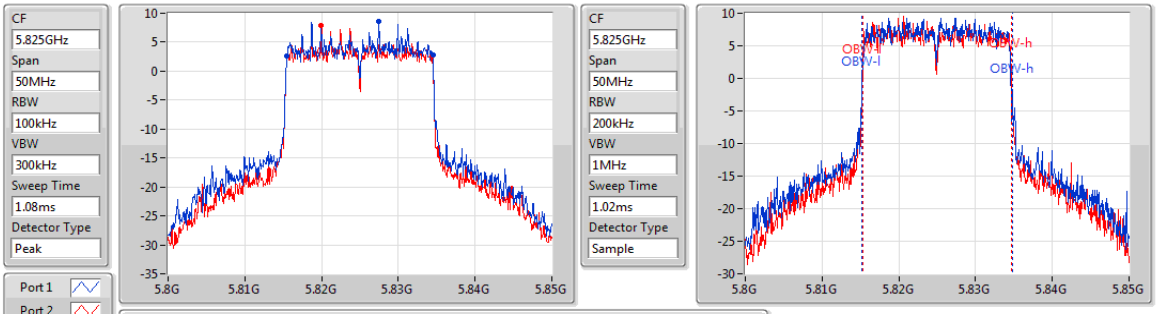
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.913M	5.775507G	5.79442G	19.609M	5.775159G	5.794768G	500k	1
18.188M	5.776087G	5.794275G	19.392M	5.775232G	5.794624G	500k	2

11AX20_Nss1,(MCS0)_2TX **EBW**

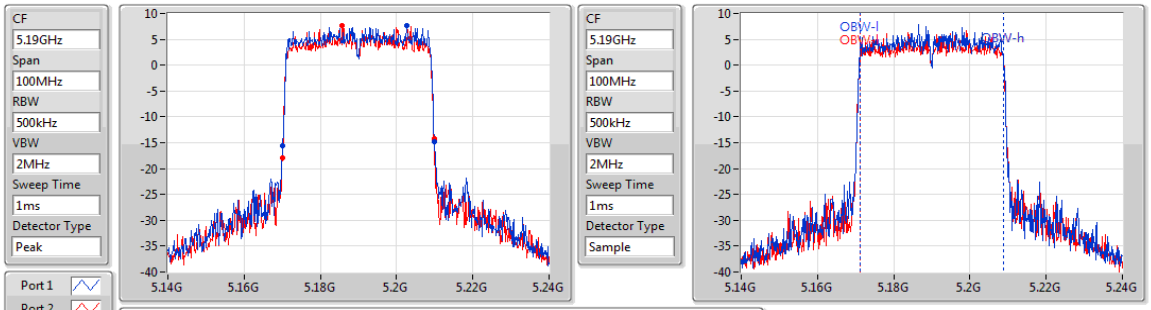
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.986M	5.815507G	5.834493G	19.537M	5.815232G	5.834768G	500k	1
18.841M	5.815507G	5.834348G	19.32M	5.815304G	5.834624G	500k	2

11AX40_Nss1,(MCS0)_2TX **EBW**

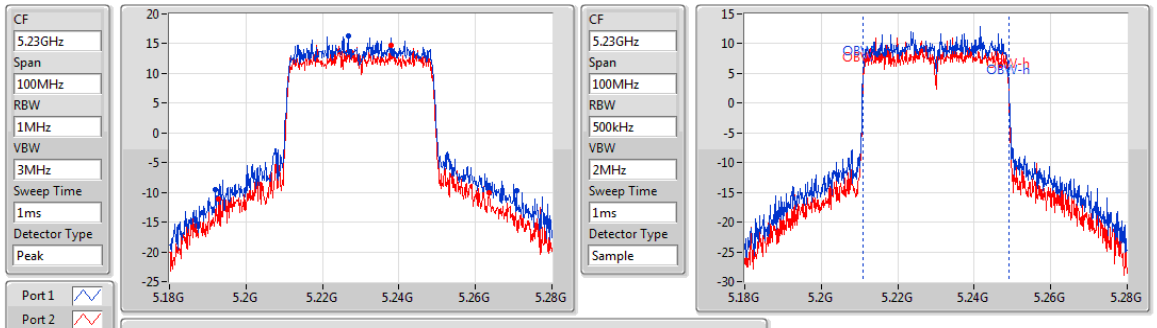
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.17G	5.21G	37.482M	5.171187G	5.208669G	Inf	1
39.855M	5.17G	5.209855G	37.627M	5.171187G	5.208813G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

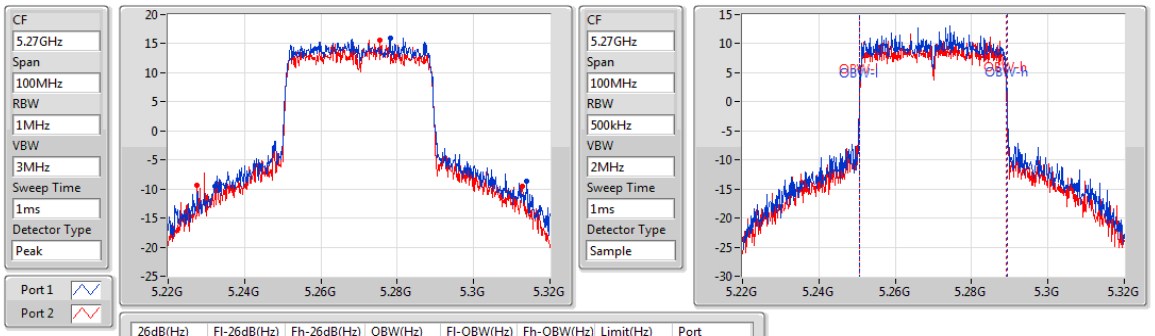
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
78.696M	5.192029G	5.270725G	38.205M	5.210897G	5.249103G	Inf	1
70.725M	5.192899G	5.263623G	37.916M	5.211042G	5.248958G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

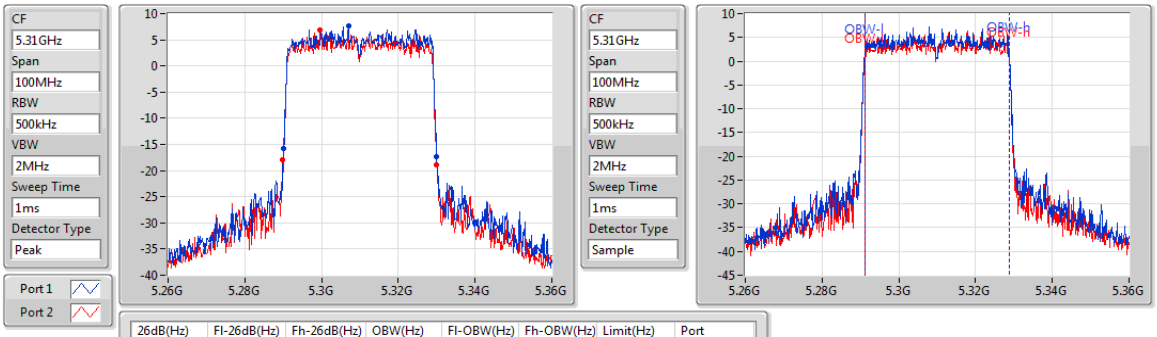
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.739M	5.232174G	5.313913G	38.495M	5.250753G	5.289247G	Inf	1
85.217M	5.227536G	5.312754G	38.35M	5.250753G	5.289103G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

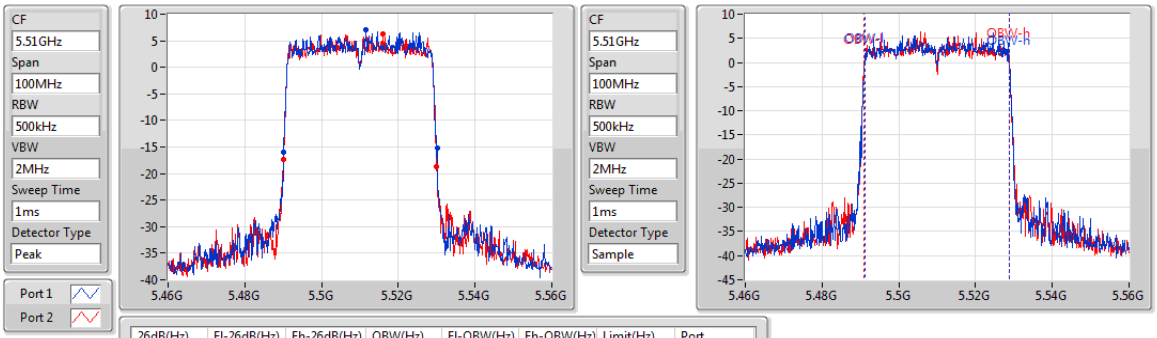
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.855M	5.290145G	5.33G	37.482M	5.291187G	5.328669G	Inf	1
40.145M	5.289855G	5.33G	37.482M	5.291187G	5.328669G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

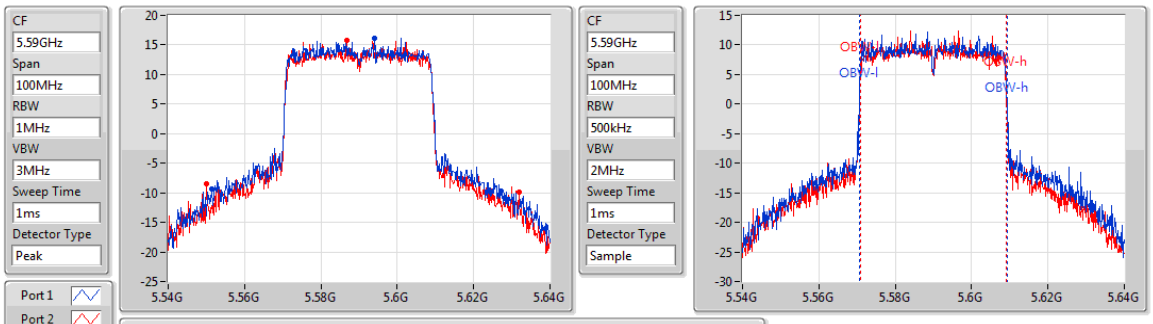
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.490145G	5.530145G	37.482M	5.491187G	5.528669G	Inf	1
40M	5.49G	5.53G	37.627M	5.491042G	5.528669G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

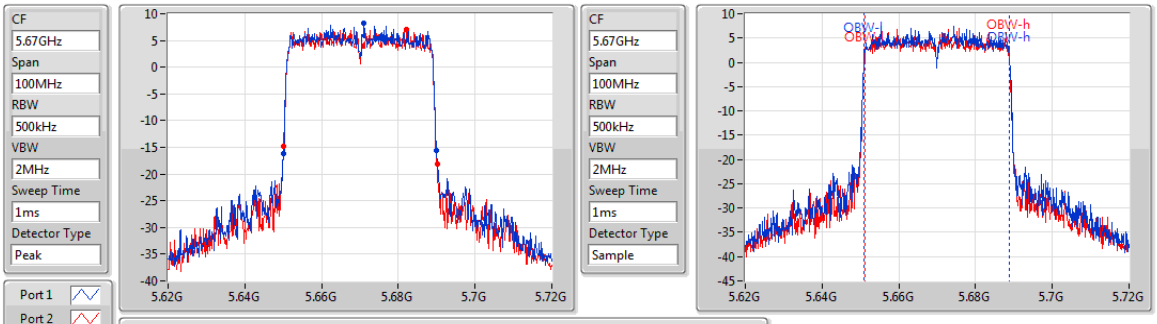
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.797M	5.551304G	5.627101G	38.495M	5.570753G	5.609247G	Inf	1
81.884M	5.55G	5.631884G	38.061M	5.570897G	5.608958G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

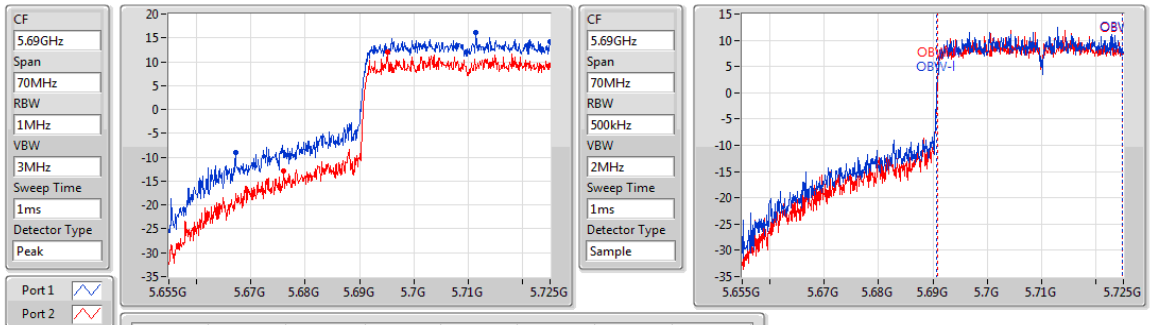
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.65G	5.69G	37.627M	5.651042G	5.688669G	Inf	1
40.145M	5.65G	5.690145G	37.482M	5.651187G	5.688669G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

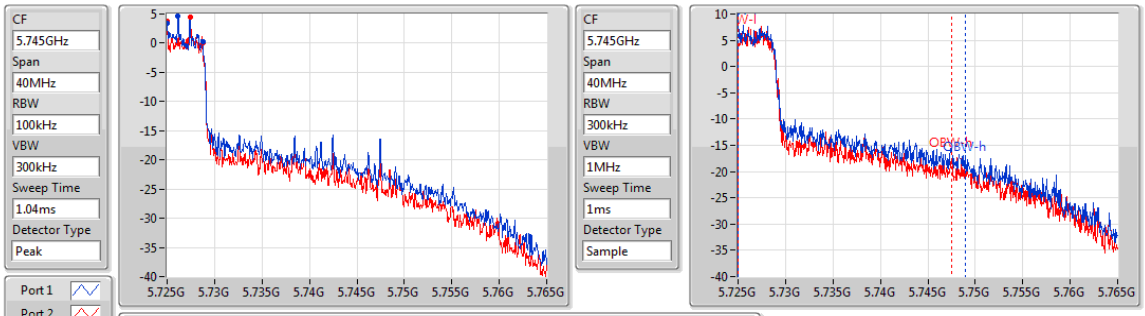
5710MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
57.725M	5.667275G	5.725G	34.038M	5.690709G	5.724747G	Inf	1
48.899M	5.676101G	5.725G	33.936M	5.690912G	5.724848G	Inf	2

11AX40_Nss1,(MCS0)_2TX **EBW**

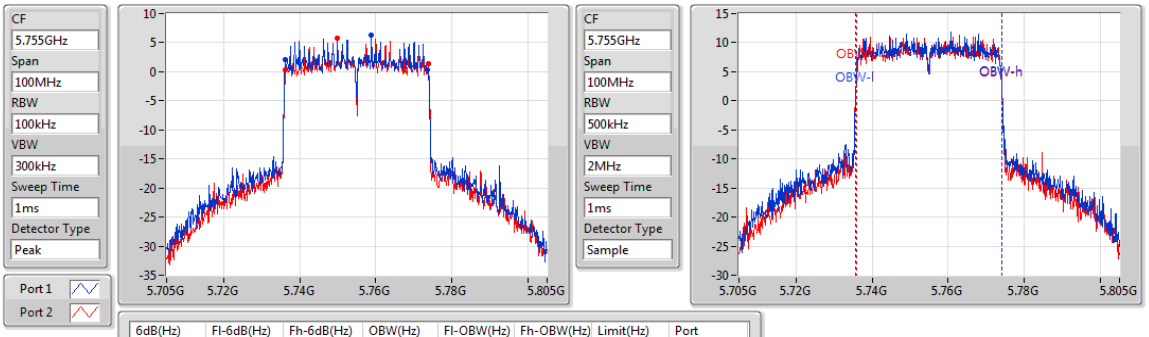
5710MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.768M	5.725G	5.728768G	23.965M	5.725029G	5.748994G	500k	1
3.768M	5.725G	5.728768G	22.46M	5.725029G	5.747489G	500k	2

11AX40_Nss1,(MCS0)_2TX **EBW**

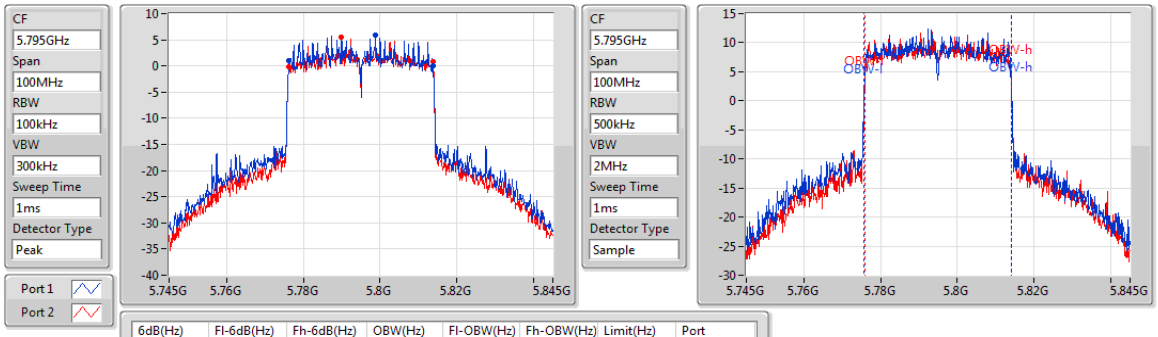
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.246M	5.736159G	5.773406G	38.495M	5.735608G	5.774103G	500k	1
37.536M	5.736304G	5.773841G	38.205M	5.735897G	5.774103G	500k	2

11AX40_Nss1,(MCS0)_2TX **EBW**

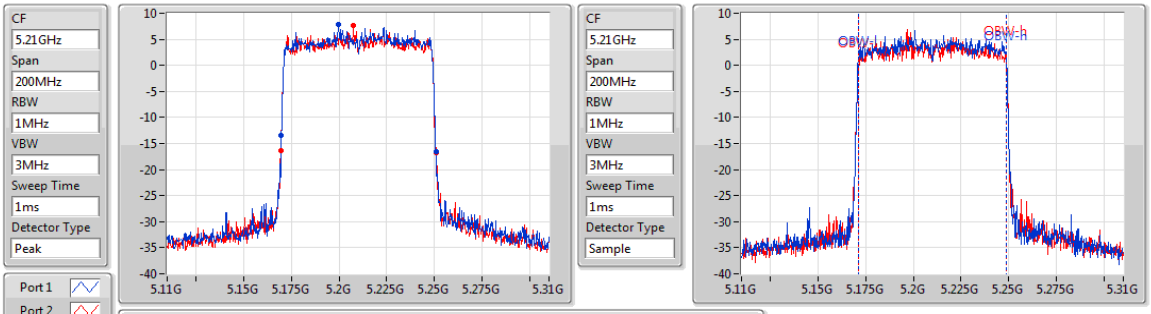
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.391M	5.776304G	5.813696G	38.35M	5.775753G	5.814103G	500k	1
37.536M	5.776304G	5.813841G	38.061M	5.775897G	5.813958G	500k	2

11AX80_Nss1,(MCS0)_2TX **EBW**

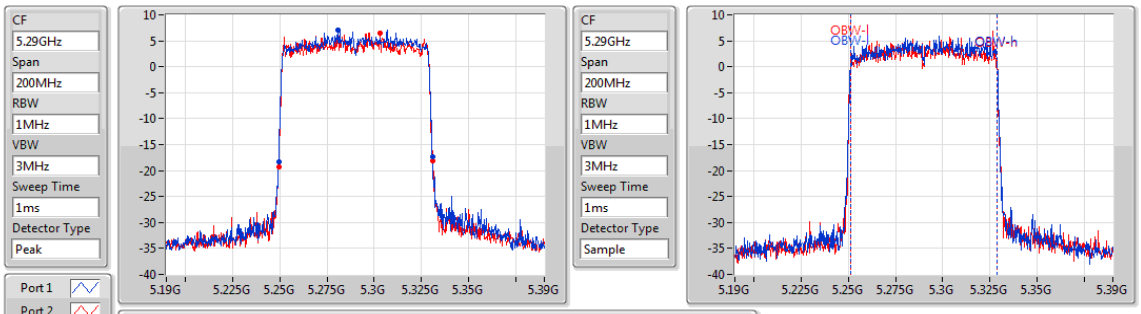
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.159M	5.16971G	5.25087G	76.99M	5.171505G	5.248495G	Inf	1
81.449M	5.16942G	5.25087G	76.99M	5.171505G	5.248495G	Inf	2

11AX80_Nss1,(MCS0)_2TX **EBW**

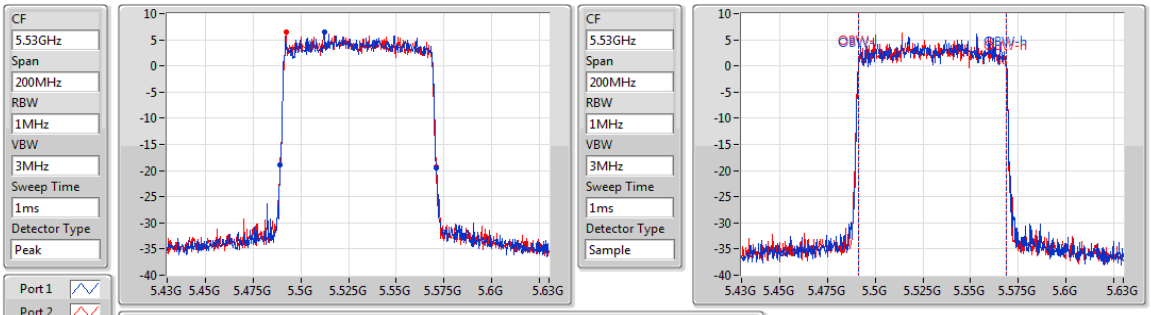
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.449M	5.24942G	5.33087G	76.99M	5.251505G	5.328495G	Inf	1
81.739M	5.24942G	5.331159G	76.99M	5.251505G	5.328495G	Inf	2

11AX80_Nss1,(MCS0)_2TX **EBW**

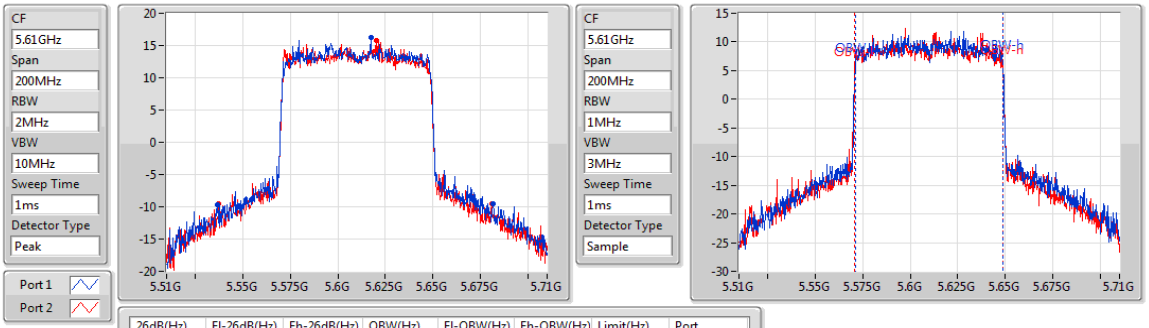
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.319M	5.488841G	5.571159G	76.99M	5.491505G	5.568495G	Inf	1
82.029M	5.48913G	5.571159G	77.279M	5.491216G	5.568495G	Inf	2

11AX80_Nss1,(MCS0)_2TX **EBW**

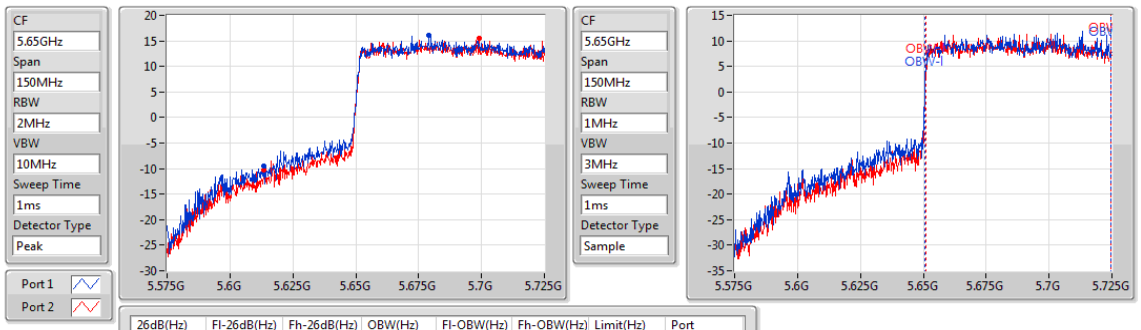
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
144.928M	5.536667G	5.681594G	77.569M	5.571216G	5.648784G	Inf	1
143.478M	5.537536G	5.681014G	77.858M	5.570926G	5.648784G	Inf	2

11AX80_Nss1,(MCS0)_2TX **EBW**

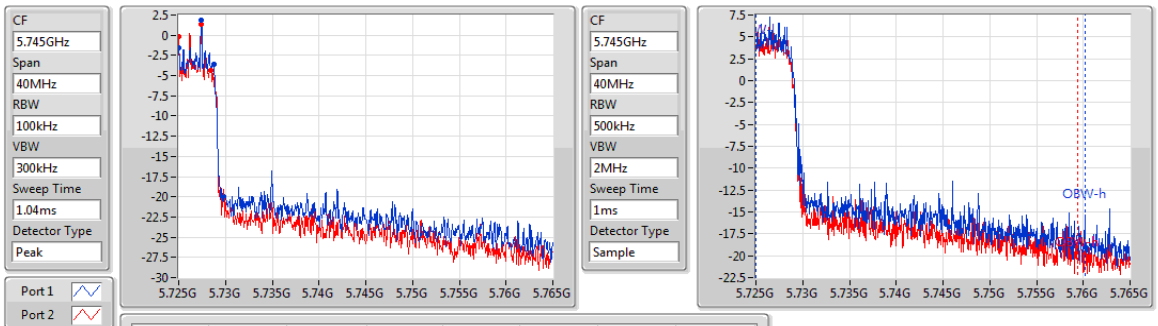
5690MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
111.739M	5.613261G	5.725G	73.806M	5.650651G	5.724457G	Inf	1
111.522M	5.613478G	5.725G	73.589M	5.650868G	5.724457G	Inf	2

11AX80_Nss1,(MCS0)_2TX **EBW**

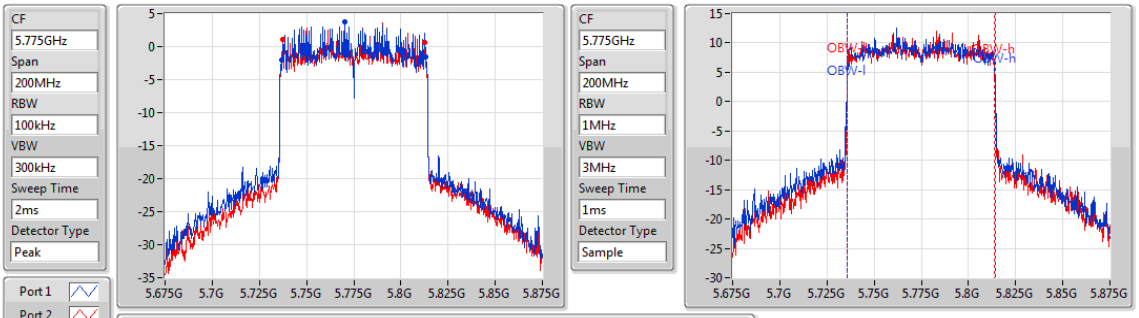
5690MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.768M	5.725G	5.728768G	35.137M	5.725029G	5.760166G	500k	1
3.478M	5.725G	5.728478G	34.385M	5.725029G	5.759414G	500k	2

11AX80_Nss1,(MCS0)_2TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.522M	5.736739G	5.813261G	78.437M	5.735637G	5.814074G	500k	1
75.362M	5.737319G	5.812681G	77.858M	5.735926G	5.813784G	500k	2

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	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)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

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

3.3.2 Test Procedures

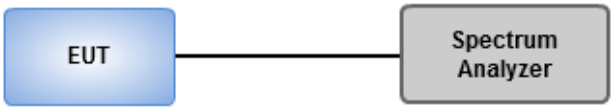
Method PM-G (Measurement using a gated RF average power meter)

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	21°C / 66%	Tested By	Aska Huang

Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.79	0.19011	27.09	0.51168
11AX20_Nss1,(MCS0)_2TX	23.08	0.20324	27.38	0.54702
11AX40_Nss1,(MCS0)_2TX	23.06	0.20230	27.36	0.54450
11AX80_Nss1,(MCS0)_2TX	17.45	0.05559	21.75	0.14962
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.29	0.16943	26.89	0.48865
11AX20_Nss1,(MCS0)_2TX	22.87	0.19364	27.47	0.55847
11AX40_Nss1,(MCS0)_2TX	23.40	0.21878	28.00	0.63096
11AX80_Nss1,(MCS0)_2TX	17.37	0.05458	21.97	0.15740
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.84	0.15276	26.94	0.49431
11AX20_Nss1,(MCS0)_2TX	22.63	0.18323	27.73	0.59293
11AX40_Nss1,(MCS0)_2TX	23.03	0.20091	28.13	0.65013
11AX80_Nss1,(MCS0)_2TX	22.80	0.19055	27.90	0.61660
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.07	0.20277	28.07	0.64121
11AX20_Nss1,(MCS0)_2TX	22.93	0.19634	27.93	0.62087
11AX40_Nss1,(MCS0)_2TX	22.90	0.19498	27.90	0.61660
11AX80_Nss1,(MCS0)_2TX	23.01	0.19999	28.01	0.63241

Result

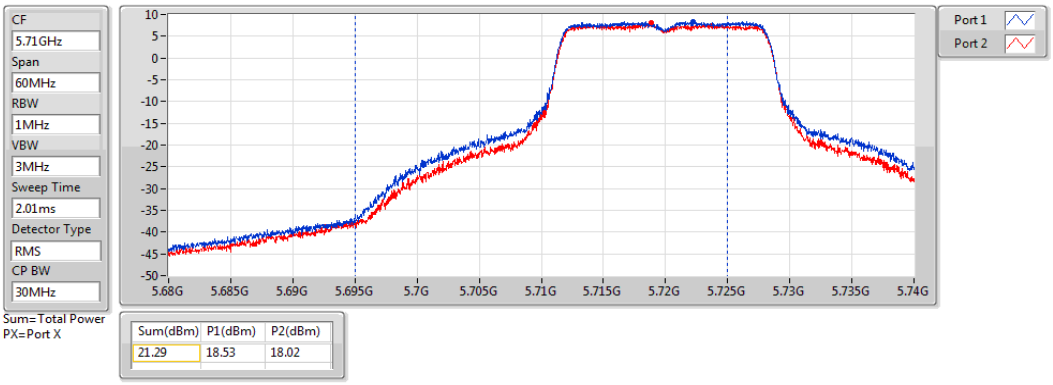
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.30	19.13	17.95	21.59	24.00	25.89	30.00
5200MHz	Pass	4.30	20.49	18.92	22.79	24.00	27.09	30.00
5240MHz	Pass	4.30	20.33	19.03	22.74	24.00	27.04	30.00
5260MHz	Pass	4.60	19.81	18.68	22.29	24.00	26.89	30.00
5300MHz	Pass	4.60	19.61	18.56	22.13	24.00	26.73	30.00
5320MHz	Pass	4.60	18.05	17.23	20.67	24.00	25.27	30.00
5500MHz	Pass	5.10	16.93	16.53	19.74	24.00	24.84	30.00
5580MHz	Pass	5.10	19.11	18.53	21.84	24.00	26.94	30.00
5700MHz	Pass	5.10	15.55	15.04	18.31	24.00	23.41	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.10	18.53	18.02	21.29	23.76	26.39	29.76
5720MHz Straddle 5.725-5.85GHz	Pass	5.00	12.46	12.02	15.26	30.00	20.26	36.00
5745MHz	Pass	5.00	20.01	20.03	23.03	30.00	28.03	36.00
5785MHz	Pass	5.00	20.02	20.09	23.07	30.00	28.07	36.00
5825MHz	Pass	5.00	20.03	19.55	22.81	30.00	27.81	36.00
11AX20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.30	18.92	17.73	21.38	24.00	25.68	30.00
5200MHz	Pass	4.30	20.75	19.26	23.08	24.00	27.38	30.00
5240MHz	Pass	4.30	20.63	19.31	23.03	24.00	27.33	30.00
5260MHz	Pass	4.60	20.35	19.31	22.87	24.00	27.47	30.00
5300MHz	Pass	4.60	20.28	19.26	22.81	24.00	27.41	30.00
5320MHz	Pass	4.60	18.49	17.63	21.09	24.00	25.69	30.00
5500MHz	Pass	5.10	16.27	15.91	19.10	24.00	24.20	30.00
5580MHz	Pass	5.10	19.93	19.29	22.63	24.00	27.73	30.00
5700MHz	Pass	5.10	14.13	13.71	16.94	24.00	22.04	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.10	18.69	18.13	21.43	24.00	26.53	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.00	13.51	13.06	16.30	30.00	21.30	36.00
5745MHz	Pass	5.00	20.02	19.82	22.93	30.00	27.93	36.00
5785MHz	Pass	5.00	19.71	19.62	22.68	30.00	27.68	36.00
5825MHz	Pass	5.00	19.78	19.38	22.59	30.00	27.59	36.00
11AX40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5190MHz	Pass	4.30	15.73	14.85	18.32	24.00	22.62	30.00
5230MHz	Pass	4.30	20.78	19.16	23.06	24.00	27.36	30.00
5270MHz	Pass	4.60	20.87	19.85	23.40	24.00	28.00	30.00
5310MHz	Pass	4.60	15.38	14.64	18.04	24.00	22.64	30.00
5510MHz	Pass	5.10	14.02	13.69	16.87	24.00	21.97	30.00
5590MHz	Pass	5.10	20.29	19.73	23.03	24.00	28.13	30.00
5670MHz	Pass	5.10	18.01	17.22	20.64	24.00	25.74	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.10	19.65	19.2	22.44	24.00	27.54	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.00	10.03	9.61	12.84	30.00	17.84	36.00
5755MHz	Pass	5.00	19.96	19.81	22.90	30.00	27.90	36.00
5795MHz	Pass	5.00	19.82	19.65	22.75	30.00	27.75	36.00
11AX80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.30	14.74	14.12	17.45	24.00	21.75	30.00
5290MHz	Pass	4.60	14.81	13.85	17.37	24.00	21.97	30.00
5530MHz	Pass	5.10	13.75	13.33	16.56	24.00	21.66	30.00
5610MHz	Pass	5.10	20.14	19.41	22.80	24.00	27.90	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.10	19.99	19.38	22.71	24.00	27.81	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.00	6.4	5.82	9.13	30.00	14.13	36.00
5775MHz	Pass	5.00	20.11	19.88	23.01	30.00	28.01	36.00

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

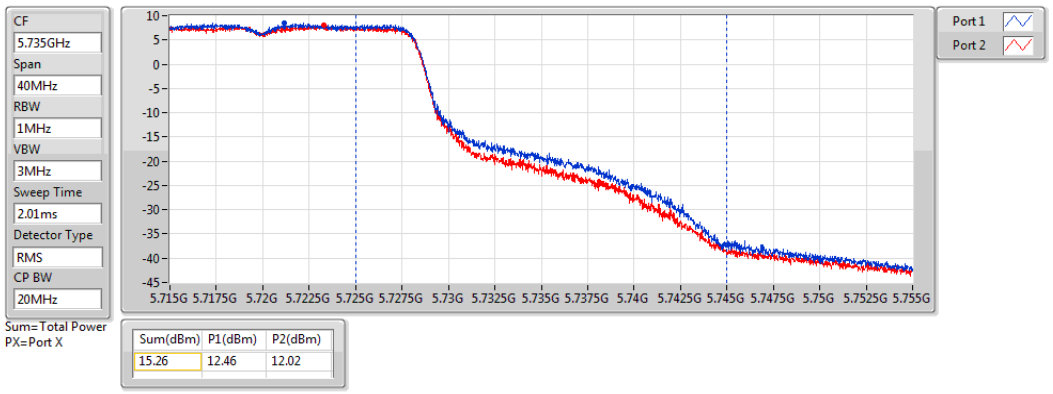
802.11a_Nss1,(6Mbps)_2TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



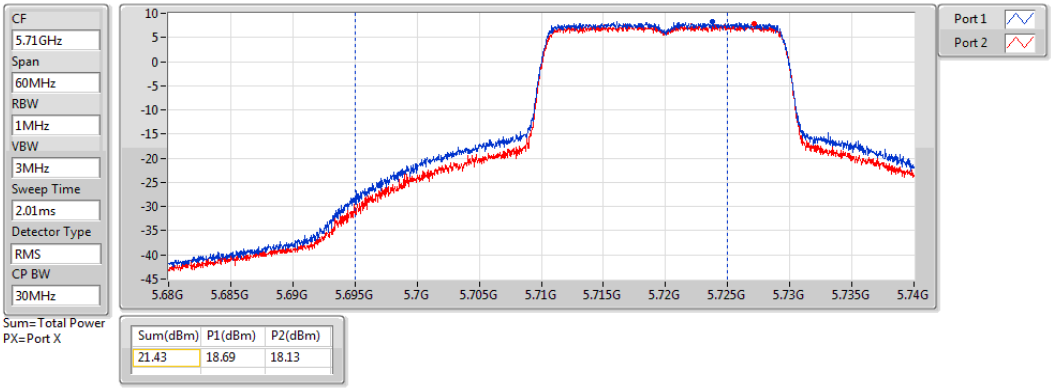
802.11a_Nss1,(6Mbps)_2TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



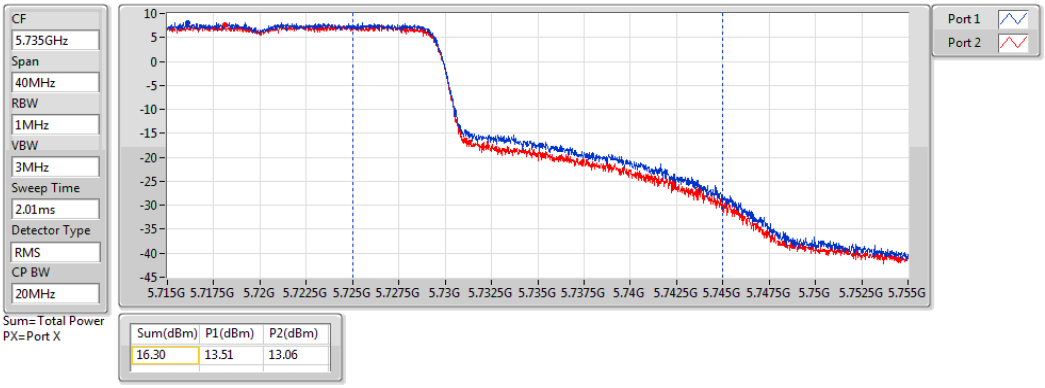
11AX20_Nss1,(MCS0)_2TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



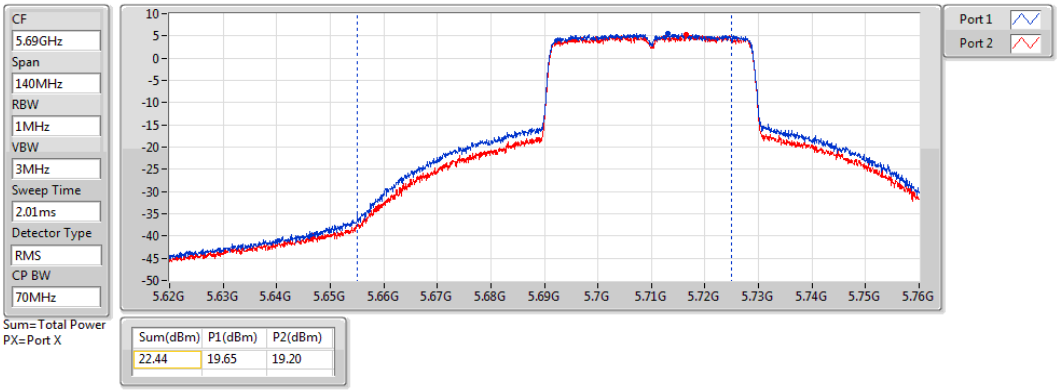
11AX20_Nss1,(MCS0)_2TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



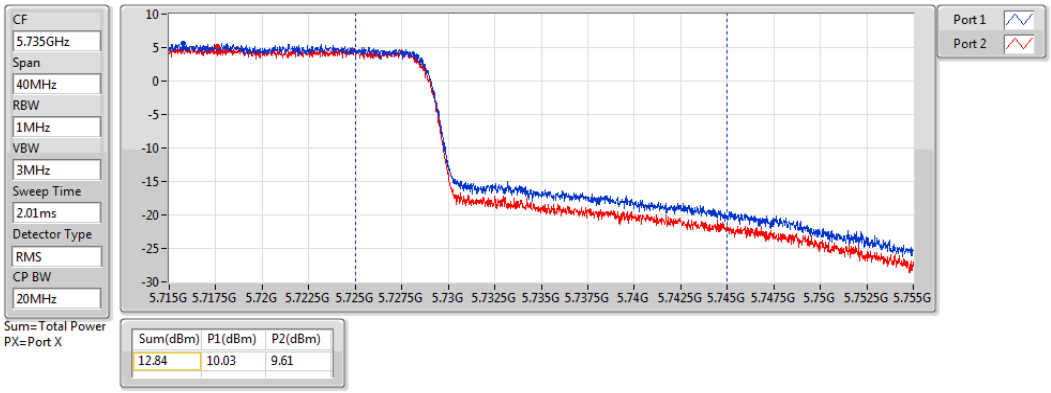
11AX40_Nss1,(MCS0)_2TX **AV Power**

5710MHz Straddle 5.47-5.725GHz



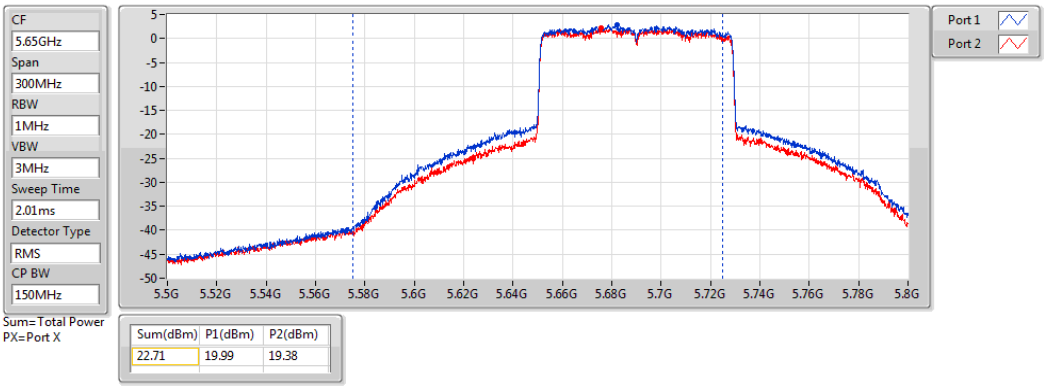
11AX40_Nss1,(MCS0)_2TX **AV Power**

5710MHz Straddle 5.725-5.85GHz



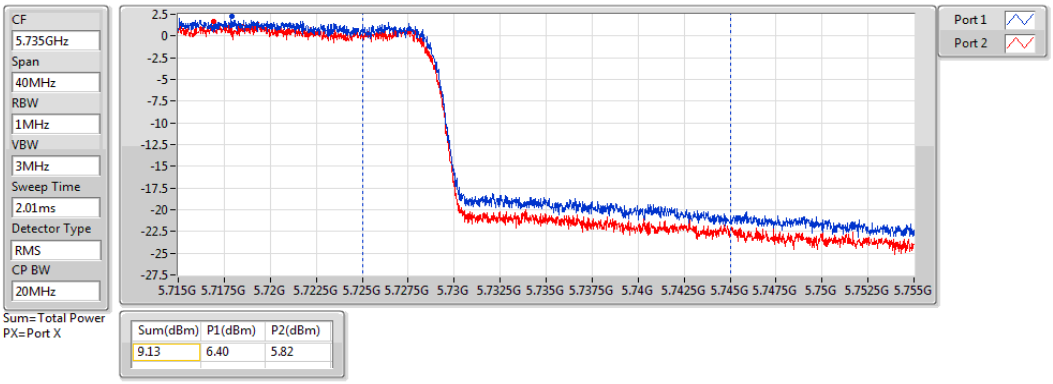
11AX80_Nss1,(MCS0)_2TX **AV Power**

5690MHz Straddle 5.47-5.725GHz



11AX80_Nss1,(MCS0)_2TX **AV Power**

5690MHz Straddle 5.725-5.85GHz



Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.07	0.10162	27.13	0.51642
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.05	0.10116	27.11	0.51404
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	14.44	0.02780	21.50	0.14125
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.86	0.09683	27.42	0.55208
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.39	0.10940	27.95	0.62373
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	14.36	0.02729	21.92	0.15560
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.62	0.09162	27.24	0.52966
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.02	0.10046	27.64	0.58076
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.79	0.09528	27.41	0.55081
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.92	0.09817	27.83	0.60674
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.89	0.09750	27.80	0.60256
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.00	0.10000	27.91	0.61802

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2 TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.06	15.91	14.72	18.37	22.94	25.43	30.00
5200MHz	Pass	7.06	17.74	16.25	20.07	22.94	27.13	30.00
5240MHz	Pass	7.06	17.62	16.3	20.02	22.94	27.08	30.00
5260MHz	Pass	7.56	17.34	16.3	19.86	22.44	27.42	30.00
5300MHz	Pass	7.56	17.27	16.25	19.80	22.44	27.36	30.00
5320MHz	Pass	7.56	15.48	14.62	18.08	22.44	25.64	30.00
5500MHz	Pass	7.62	13.26	12.9	16.09	22.38	23.71	30.00
5580MHz	Pass	7.62	16.92	16.28	19.62	22.38	27.24	30.00
5700MHz	Pass	7.62	11.12	10.7	13.93	22.38	21.55	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.62	15.68	15.12	18.42	22.38	26.04	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.91	10.5	10.05	13.29	28.09	21.20	36.00
5745MHz	Pass	7.91	17.01	16.81	19.92	28.09	27.83	36.00
5785MHz	Pass	7.91	16.7	16.61	19.67	28.09	27.58	36.00
5825MHz	Pass	7.91	16.77	16.37	19.58	28.09	27.49	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2 TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.06	12.72	11.84	15.31	22.94	22.37	30.00
5230MHz	Pass	7.06	17.77	16.15	20.05	22.94	27.11	30.00
5270MHz	Pass	7.56	17.86	16.84	20.39	22.44	27.95	30.00
5310MHz	Pass	7.56	12.37	11.63	15.03	22.44	22.59	30.00
5510MHz	Pass	7.62	11.01	10.68	13.86	22.38	21.48	30.00
5590MHz	Pass	7.62	17.28	16.72	20.02	22.38	27.64	30.00
5670MHz	Pass	7.62	15	14.21	17.63	22.38	25.25	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.62	16.64	16.19	19.43	22.38	27.05	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.91	7.02	6.6	9.83	28.09	17.74	36.00
5755MHz	Pass	7.91	16.95	16.8	19.89	28.09	27.80	36.00
5795MHz	Pass	7.91	16.81	16.64	19.74	28.09	27.65	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
TX								
5210MHz	Pass	7.06	11.73	11.11	14.44	22.94	21.50	30.00
5290MHz	Pass	7.56	11.8	10.84	14.36	22.44	21.92	30.00
5530MHz	Pass	7.62	10.74	10.32	13.55	22.38	21.17	30.00
5610MHz	Pass	7.62	17.13	16.4	19.79	22.38	27.41	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.62	16.98	16.37	19.70	22.38	27.32	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.91	3.39	2.81	6.12	28.09	14.03	36.00
5775MHz	Pass	7.91	17.1	16.87	20.00	28.09	27.91	36.00

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

Directional gain of 5150-5250MHz:

= 10 * log((10$^{3.8/20}$+10$^{4.3/20}$/2) = 7.06 dBi >6dBi, limit shall be reduced to 24 dBm – (7.06 dBi – 6 dBi) = 22.94 dBm

Directional gain of 5250-5350MHz:

= 10 * log((10$^{4.5/20}$+10$^{4.6/20}$/2) = 7.56 dBi >6dBi, limit shall be reduced to 24 dBm – (7.56 dBi – 6 dBi) = 22.44 dBm

Directional gain of 5470-5725MHz:

= 10 * log((10$^{5.1/20}$+10$^{4.1/20}$/2) = 7.62 dBi >6dBi, limit shall be reduced to 24 dBm – (7.62 dBi – 6 dBi) = 22.38 dBm

Directional gain of 5725-5850MHz:

= 10 * log((10$^{5/20}$+10$^{4.8/20}$/2) = 7.91 dBi >6dBi, limit shall be reduced to 30 dBm – (7.91 dBi – 6 dBi) = 28.09 dBm

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☒	Client devices	11 dBm / MHz

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

3.4.2 Test Procedures

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

Duty cycle ≥ 98 %

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

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS, Sweep time = auto
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.
4. Add 10 log(1/x), where x is the duty cycle.

For 5725 ~ 5850 MHz

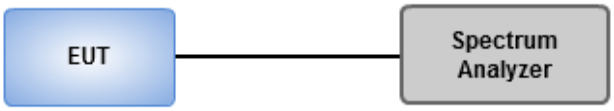
Duty cycle ≥ 98 %

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

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS, Sweep time = auto
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.
4. 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	21°C / 66%	Tested By	Aska Huang

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.83	16.89
11AX20_Nss1,(MCS0)_2TX	9.49	16.55
11AX40_Nss1,(MCS0)_2TX	6.81	13.87
11AX80_Nss1,(MCS0)_2TX	-1.75	5.31
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.23	16.79
11AX20_Nss1,(MCS0)_2TX	9.25	16.81
11AX40_Nss1,(MCS0)_2TX	6.84	14.40
11AX80_Nss1,(MCS0)_2TX	-1.97	5.59
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.10	16.72
11AX20_Nss1,(MCS0)_2TX	9.18	16.80
11AX40_Nss1,(MCS0)_2TX	7.03	14.65
11AX80_Nss1,(MCS0)_2TX	3.68	11.30
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.57	16.48
11AX20_Nss1,(MCS0)_2TX	7.61	15.52
11AX40_Nss1,(MCS0)_2TX	5.17	13.08
11AX80_Nss1,(MCS0)_2TX	2.11	10.02

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	7.06	7.43	6.09	9.72	9.94	16.78	17.00
5200MHz	Pass	7.06	7.48	6.06	9.83	9.94	16.89	17.00
5240MHz	Pass	7.06	7.43	6.07	9.72	9.94	16.78	17.00
5260MHz	Pass	7.56	6.74	5.62	9.18	9.44	16.74	17.00
5300MHz	Pass	7.56	6.79	5.74	9.23	9.44	16.79	17.00
5320MHz	Pass	7.56	6.50	5.61	9.02	9.44	16.58	17.00
5500MHz	Pass	7.62	5.24	4.88	7.99	9.38	15.61	17.00
5580MHz	Pass	7.62	6.21	5.66	8.81	9.38	16.43	17.00
5700MHz	Pass	7.62	2.71	2.20	5.32	9.38	12.94	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.62	6.47	5.94	9.10	9.38	16.72	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.91	4.74	4.30	7.39	28.09	15.30	36.00
5745MHz	Pass	7.91	5.79	5.66	8.57	28.09	16.48	36.00
5785MHz	Pass	7.91	5.67	5.42	8.37	28.09	16.28	36.00
5825MHz	Pass	7.91	5.66	5.35	8.34	28.09	16.25	36.00
11AX20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.06	5.34	4.30	7.86	9.94	14.92	17.00
5200MHz	Pass	7.06	7.22	5.79	9.49	9.94	16.55	17.00
5240MHz	Pass	7.06	7.18	5.85	9.48	9.94	16.54	17.00
5260MHz	Pass	7.56	6.84	5.78	9.25	9.44	16.81	17.00
5300MHz	Pass	7.56	6.73	5.76	9.25	9.44	16.81	17.00
5320MHz	Pass	7.56	4.97	4.07	7.48	9.44	15.04	17.00
5500MHz	Pass	7.62	2.80	2.48	5.58	9.38	13.20	17.00
5580MHz	Pass	7.62	6.57	5.91	9.18	9.38	16.80	17.00
5700MHz	Pass	7.62	0.77	0.25	3.39	9.38	11.01	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.62	6.19	5.69	8.93	9.38	16.55	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.91	4.39	3.92	7.06	28.09	14.97	36.00
5745MHz	Pass	7.91	4.88	4.64	7.61	28.09	15.52	36.00
5785MHz	Pass	7.91	4.77	4.58	7.55	28.09	15.46	36.00
5825MHz	Pass	7.91	4.74	4.33	7.42	28.09	15.33	36.00

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)
11AX40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.06	-0.82	-1.59	1.77	9.94	8.83	17.00
5230MHz	Pass	7.06	4.65	2.89	6.81	9.94	13.87	17.00
5270MHz	Pass	7.56	4.41	3.41	6.84	9.44	14.40	17.00
5310MHz	Pass	7.56	-0.75	-1.79	1.75	9.44	9.31	17.00
5510MHz	Pass	7.62	-2.15	-2.28	0.73	9.38	8.35	17.00
5590MHz	Pass	7.62	4.34	3.97	7.03	9.38	14.65	17.00
5670MHz	Pass	7.62	-0.66	-1.13	2.07	9.38	9.69	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.62	3.72	3.07	6.25	9.38	13.87	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.91	1.61	1.13	4.31	28.09	12.22	36.00
5755MHz	Pass	7.91	2.22	2.00	5.04	28.09	12.95	36.00
5795MHz	Pass	7.91	2.45	1.98	5.17	28.09	13.08	36.00
11AX80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.06	-4.31	-5.12	-1.75	9.94	5.31	17.00
5290MHz	Pass	7.56	-4.50	-5.48	-1.97	9.44	5.59	17.00
5530MHz	Pass	7.62	-5.36	-5.40	-2.46	9.38	5.16	17.00
5610MHz	Pass	7.62	0.95	0.56	3.68	9.38	11.30	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.62	0.73	0.27	3.41	9.38	11.03	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.91	-1.89	-2.41	0.70	28.09	8.61	36.00
5775MHz	Pass	7.91	-0.68	-0.92	2.11	28.09	10.02	36.00

DG = Directional Gain; **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 Xpower density;

Directional gain of 5150-5250MHz:
$= 10 * \log((10^{3.8/20}+10^{4.3/20}/2) = 7.06$ dBi >6dBi, limit shall be reduced to 11 dBm – (7.06 dBi – 6 dBi) = 9.94 dBm

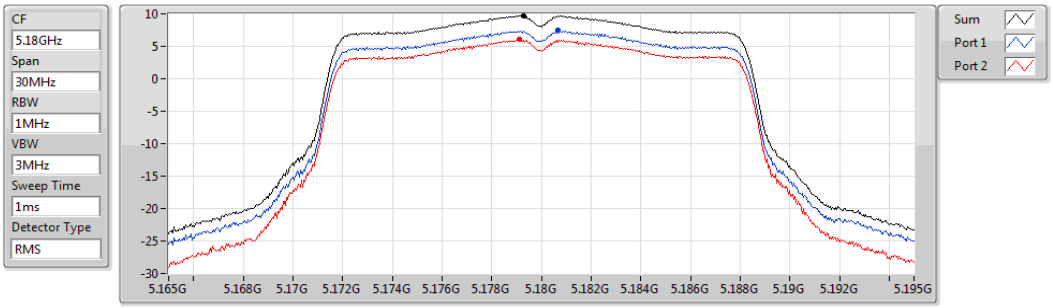
Directional gain of 5250-5350MHz:
$= 10 * \log((10^{4.5/20}+10^{4.6/20}/2) = 7.56$ dBi >6dBi, limit shall be reduced to 11 dBm – (7.56 dBi – 6 dBi) = 9.44 dBm

Directional gain of 5470-5725MHz:
$= 10 * \log((10^{5.1/20}+10^{4.1/20}/2) = 7.62$ dBi >6dBi, limit shall be reduced to 11 dBm – (7.62 dBi – 6 dBi) = 9.38 dBm

Directional gain of 5725-5850MHz:
$= 10 * \log((10^{5/20}+10^{4.8/20}/2) = 7.91$ dBi >6dBi, limit shall be reduced to 30 dBm – (7.91 dBi – 6 dBi) = 28.09 dBm

802.11a_Nss1,(6Mbps)_2TX **PSD**

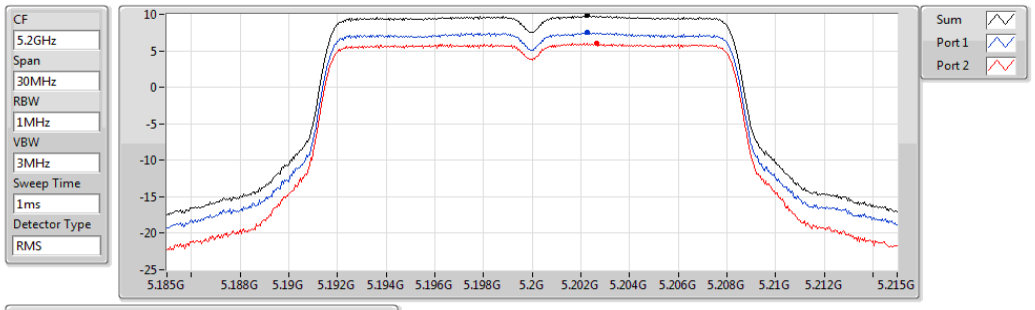
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.72	9.72	7.43	6.09

802.11a_Nss1,(6Mbps)_2TX **PSD**

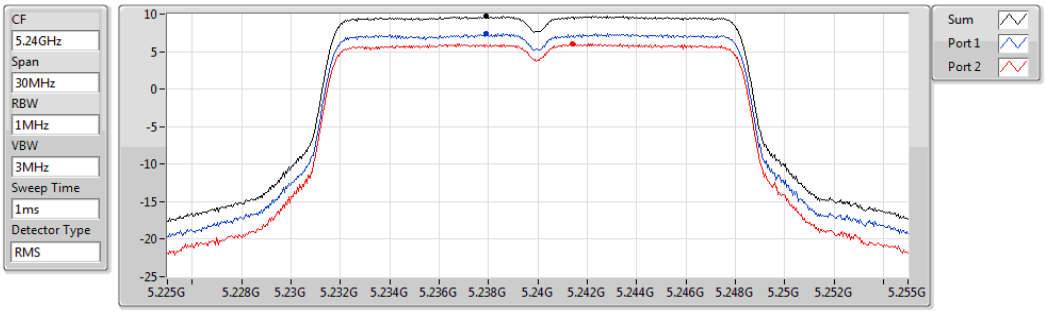
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.83	9.83	7.48	6.06

802.11a_Nss1,(6Mbps)_2TX **PSD**

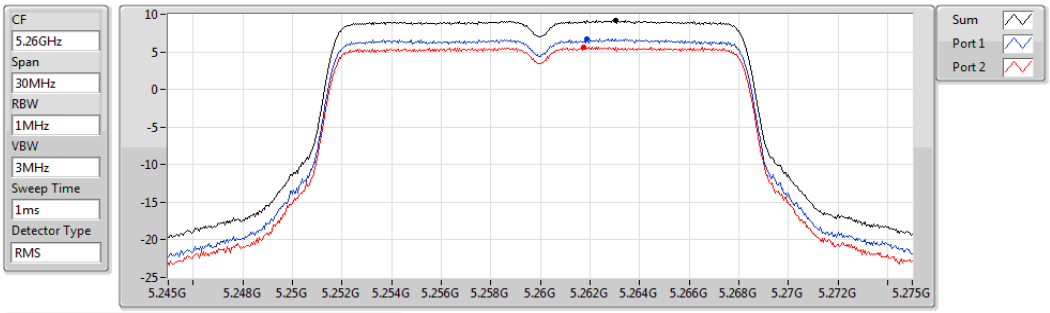
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.72	9.72	7.43	6.07

802.11a_Nss1,(6Mbps)_2TX **PSD**

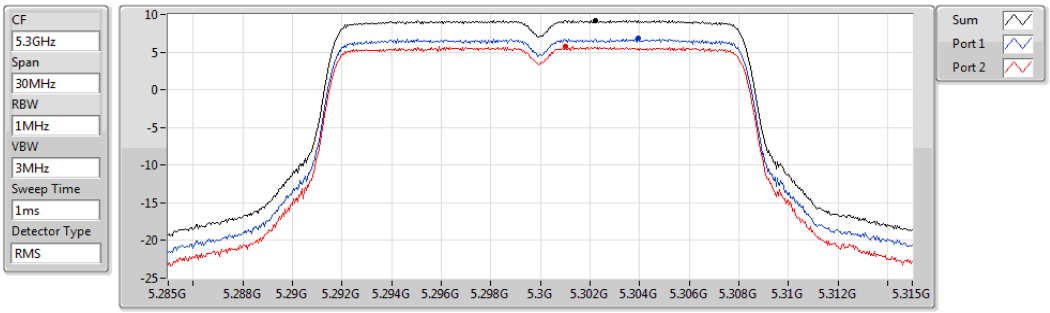
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	6.74	5.62

802.11a_Nss1,(6Mbps)_2TX **PSD**

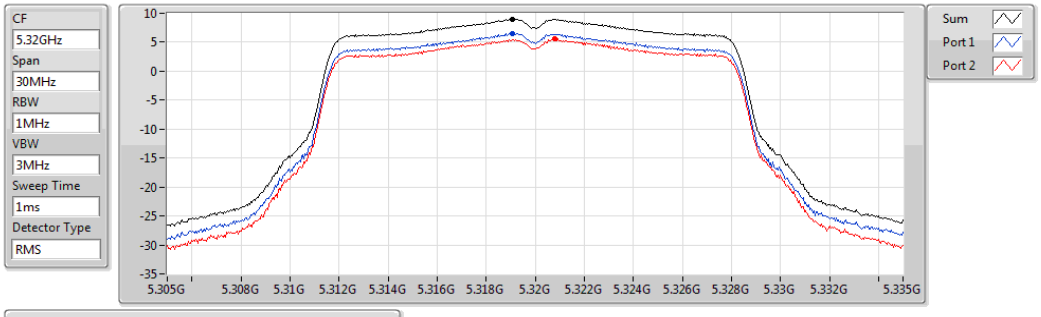
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.23	9.23	6.79	5.74

802.11a_Nss1,(6Mbps)_2TX **PSD**

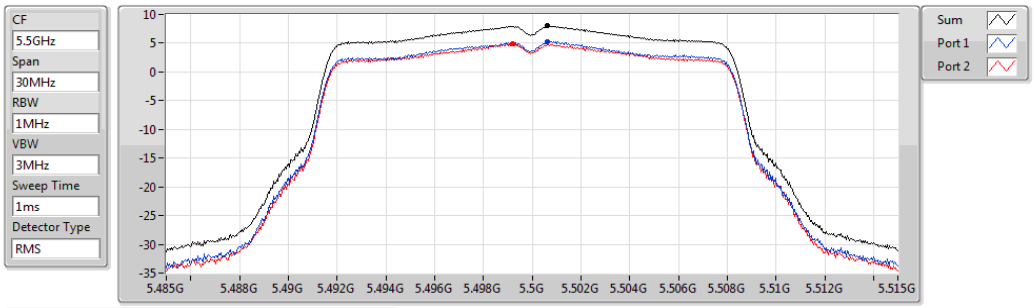
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.02	9.02	6.50	5.61

802.11a_Nss1,(6Mbps)_2TX **PSD**

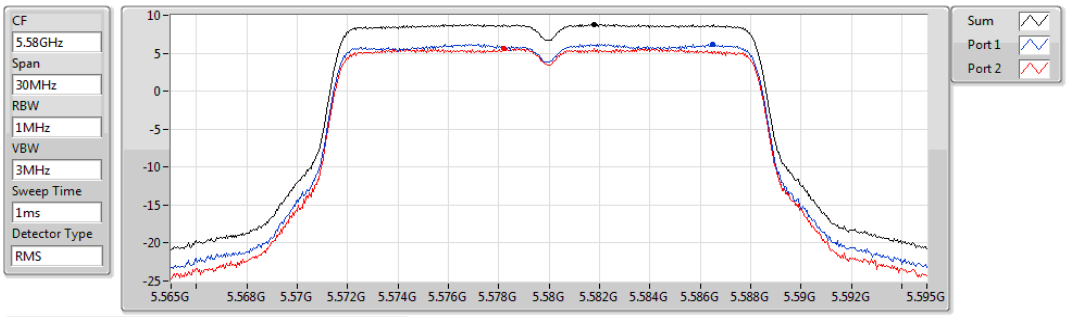
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.99	7.99	5.24	4.88

802.11a_Nss1,(6Mbps)_2TX **PSD**

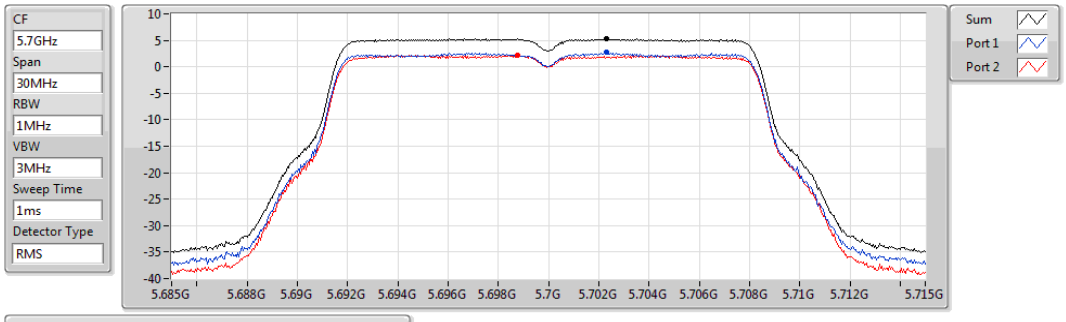
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.81	8.81	6.21	5.66

802.11a_Nss1,(6Mbps)_2TX **PSD**

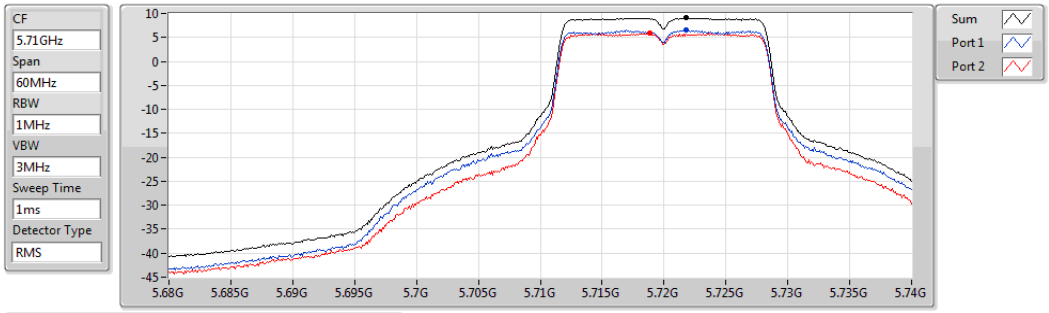
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.32	5.32	2.71	2.20

802.11a_Nss1,(6Mbps)_2TX **PSD**

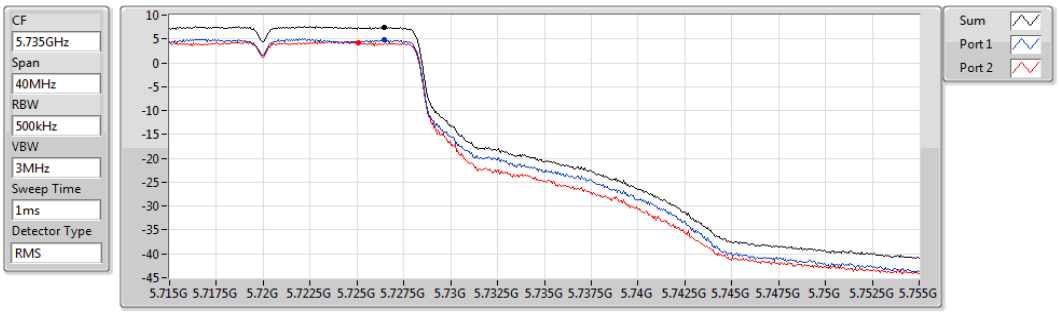
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.10	9.10	6.47	5.94

802.11a_Nss1,(6Mbps)_2TX **PSD**

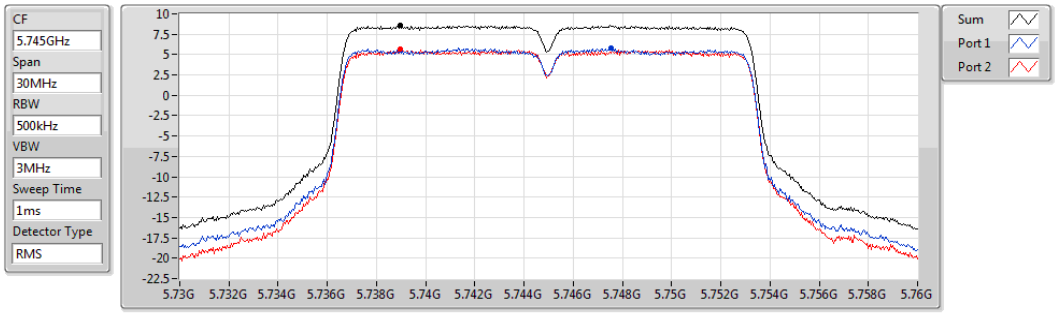
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.39	7.39	4.74	4.30

802.11a_Nss1,(6Mbps)_2TX **PSD**

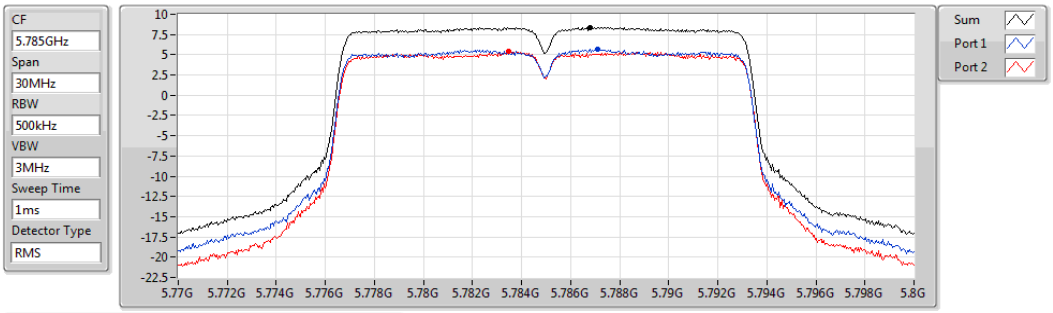
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.57	8.57	5.79	5.66

802.11a_Nss1,(6Mbps)_2TX **PSD**

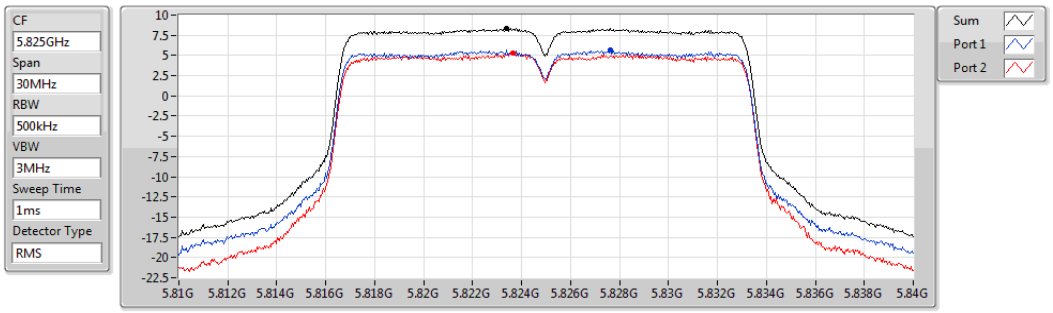
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.37	8.37	5.67	5.42

802.11a_Nss1,(6Mbps)_2TX **PSD**

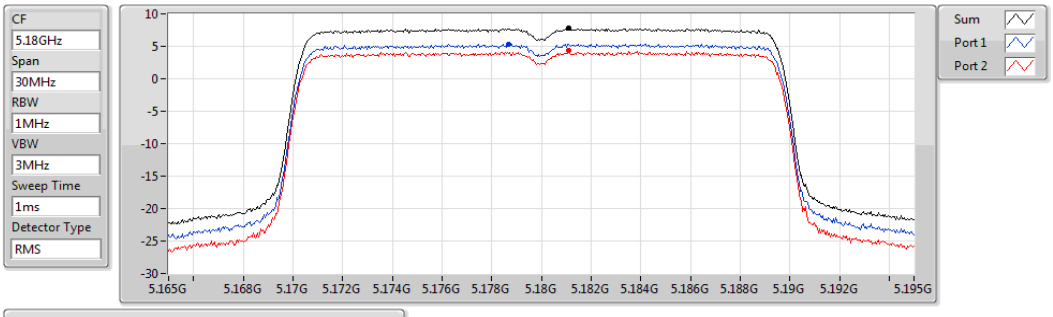
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.34	8.34	5.66	5.35

11AX20_Nss1,(MCS0)_2TX **PSD**

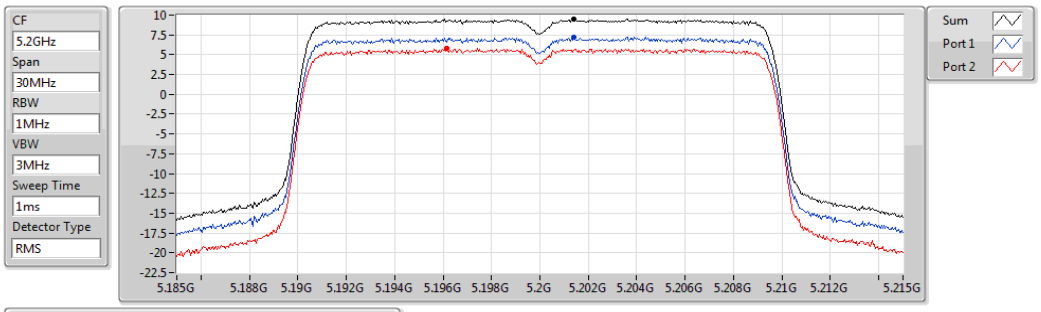
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.86	7.86	5.34	4.30

11AX20_Nss1,(MCS0)_2TX **PSD**

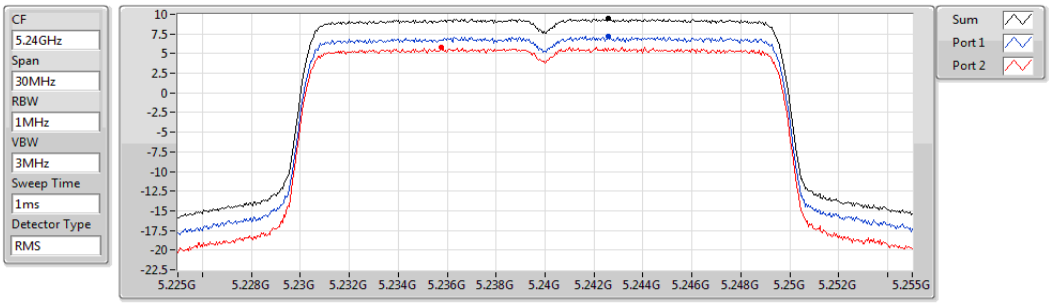
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.49	9.49	7.22	5.79

11AX20_Nss1,(MCS0)_2TX **PSD**

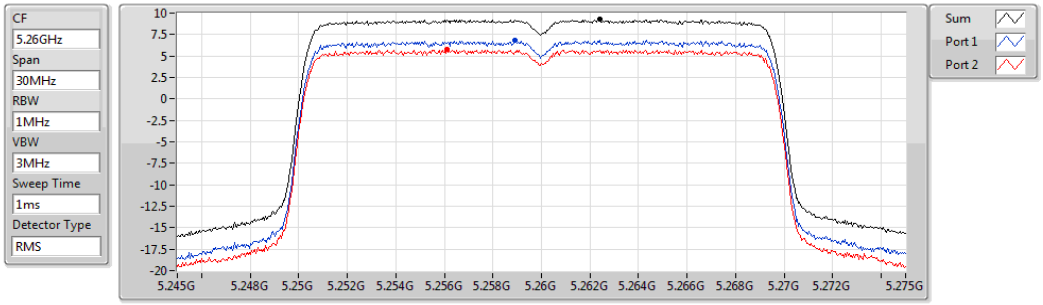
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.48	9.48	7.18	5.85

11AX20_Nss1,(MCS0)_2TX **PSD**

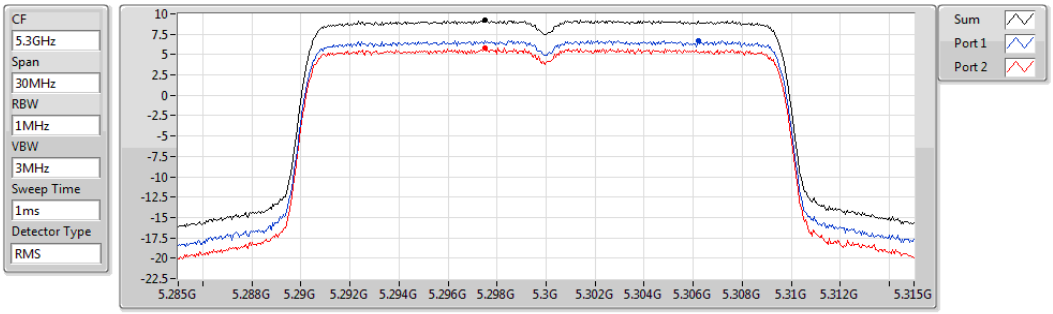
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.25	9.25	6.84	5.78

11AX20_Nss1,(MCS0)_2TX **PSD**

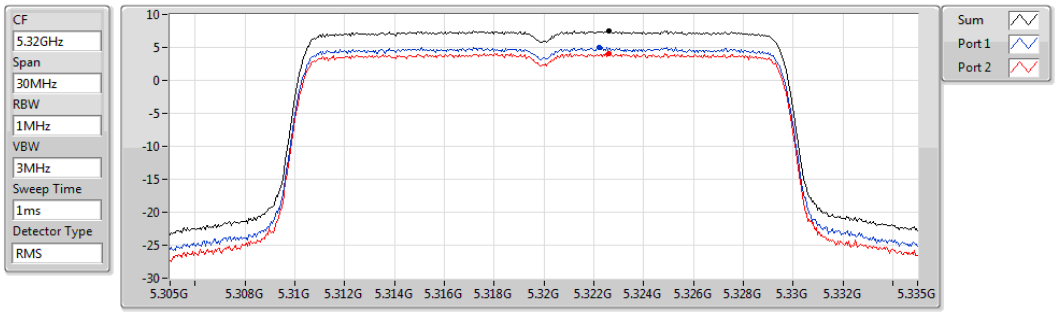
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.25	9.25	6.73	5.76

11AX20_Nss1,(MCS0)_2TX **PSD**

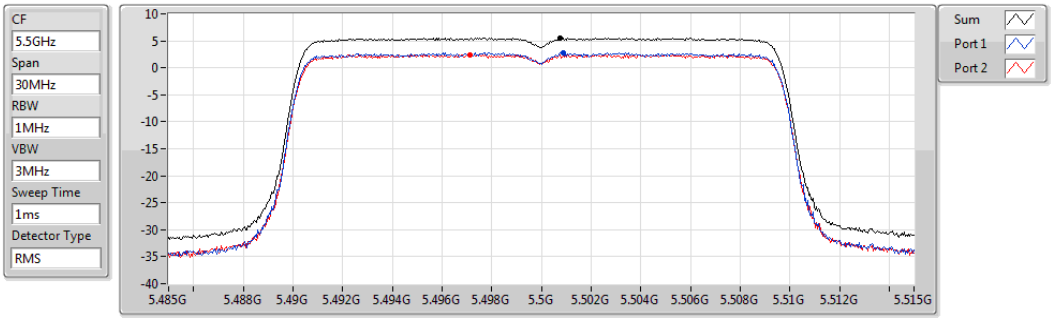
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.48	7.48	4.97	4.07

11AX20_Nss1,(MCS0)_2TX **PSD**

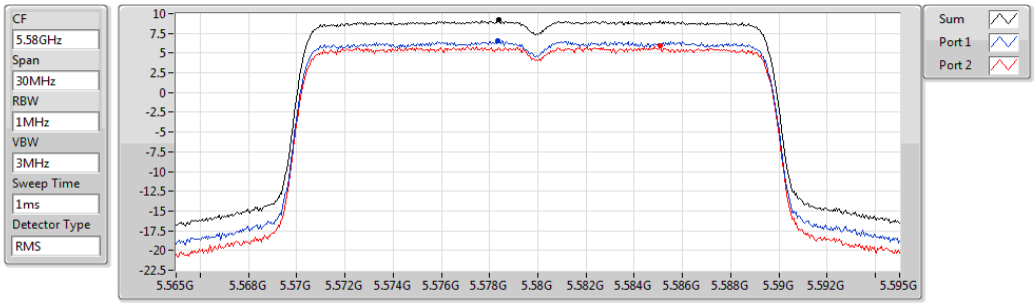
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.58	5.58	2.80	2.48

11AX20_Nss1,(MCS0)_2TX **PSD**

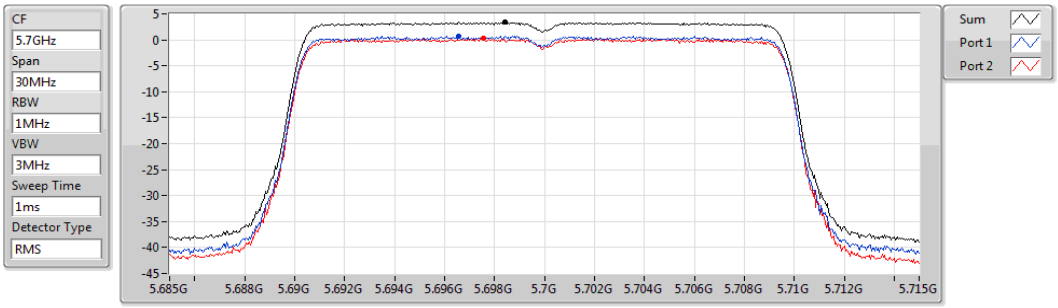
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	6.57	5.91

11AX20_Nss1,(MCS0)_2TX **PSD**

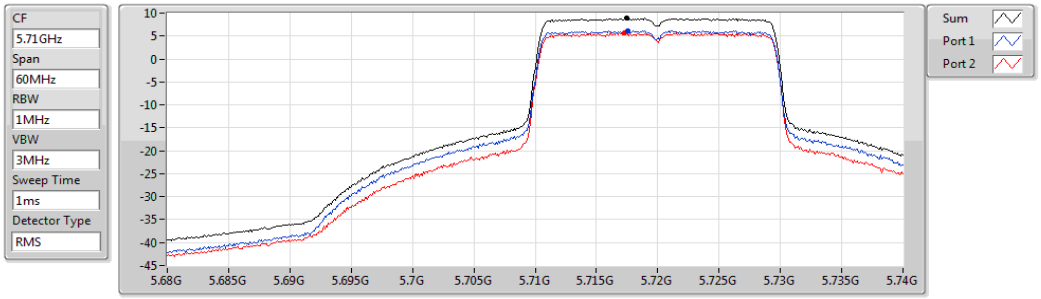
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.39	3.39	0.77	0.25

11AX20_Nss1,(MCS0)_2TX **PSD**

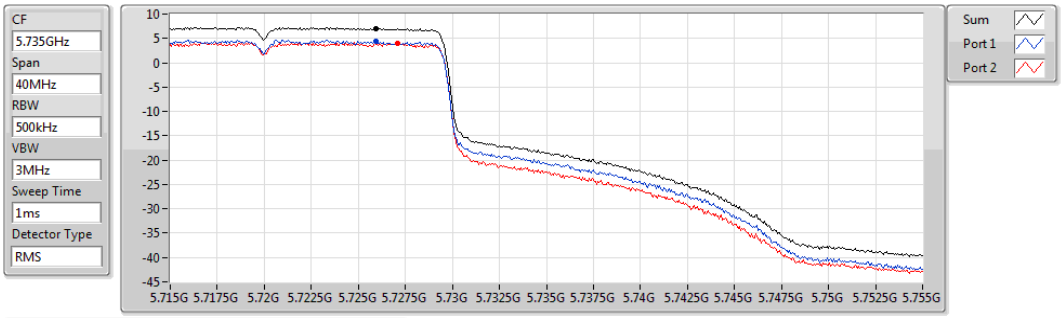
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.93	8.93	6.19	5.69

11AX20_Nss1,(MCS0)_2TX **PSD**

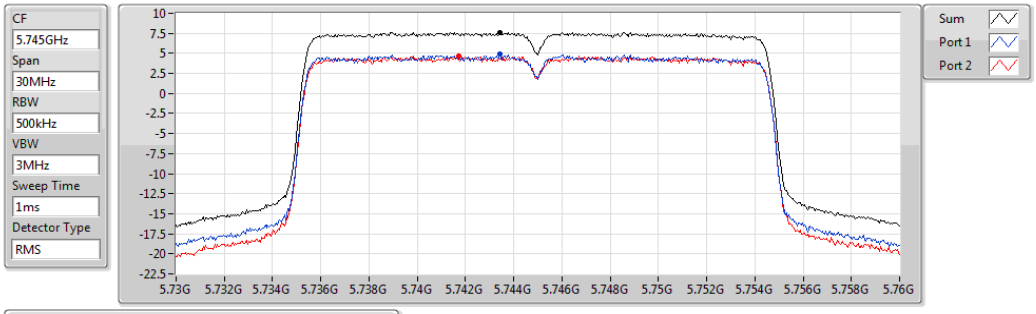
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.06	7.06	4.39	3.92

11AX20_Nss1,(MCS0)_2TX **PSD**

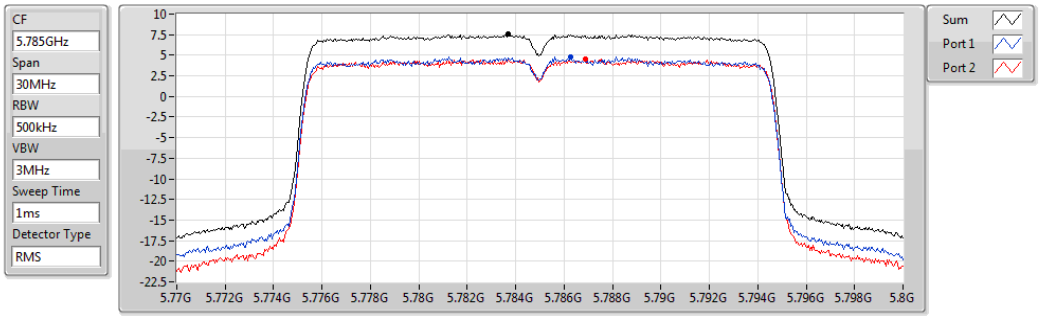
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.61	7.61	4.88	4.64

11AX20_Nss1,(MCS0)_2TX **PSD**

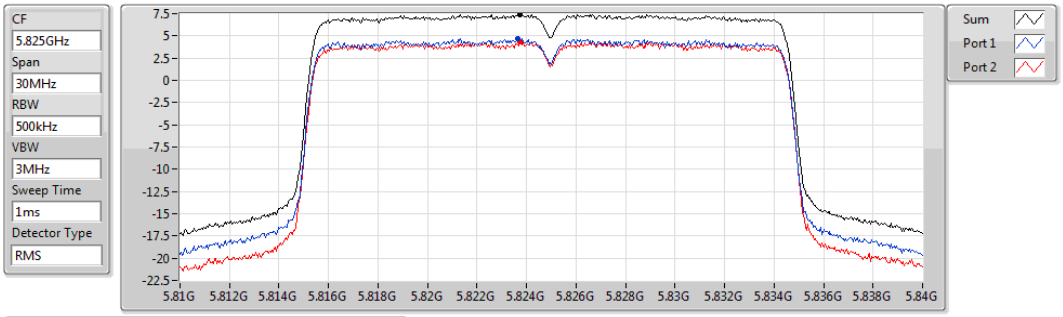
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.55	7.55	4.77	4.58

11AX20_Nss1,(MCS0)_2TX **PSD**

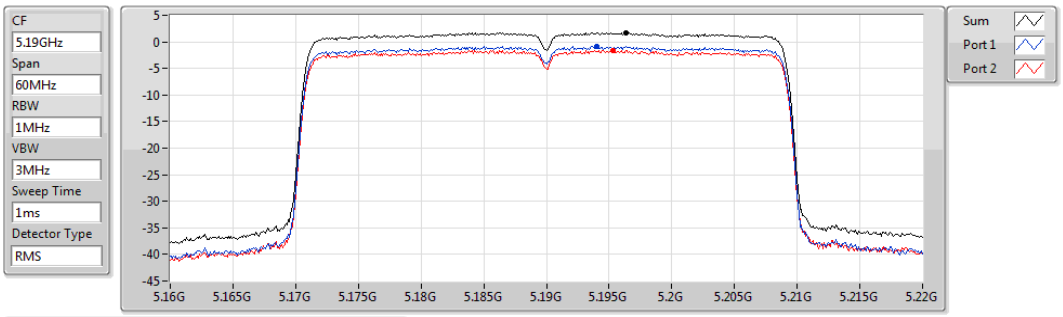
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.42	7.42	4.74	4.33

11AX40_Nss1,(MCS0)_2TX **PSD**

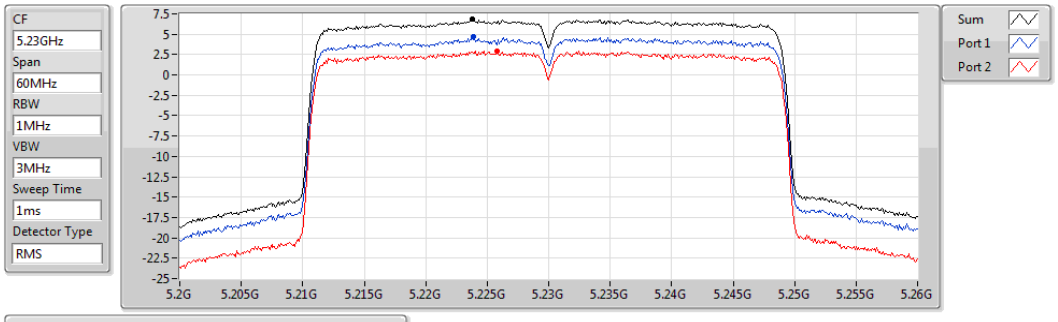
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.77	1.77	-0.82	-1.59

11AX40_Nss1,(MCS0)_2TX **PSD**

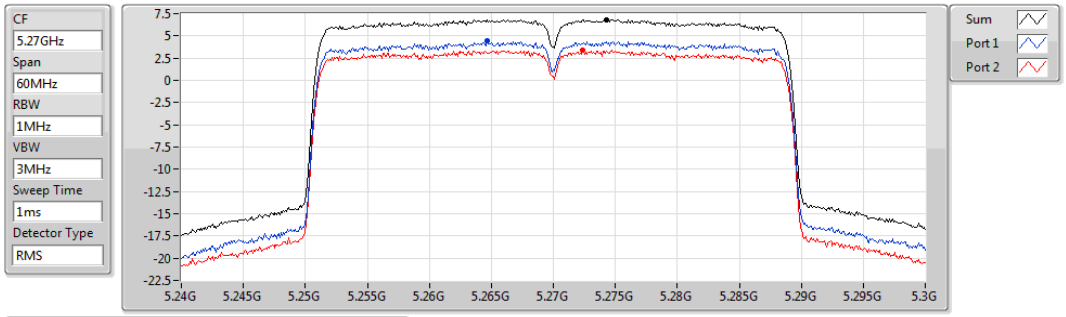
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.81	6.81	4.65	2.89

11AX40_Nss1,(MCS0)_2TX **PSD**

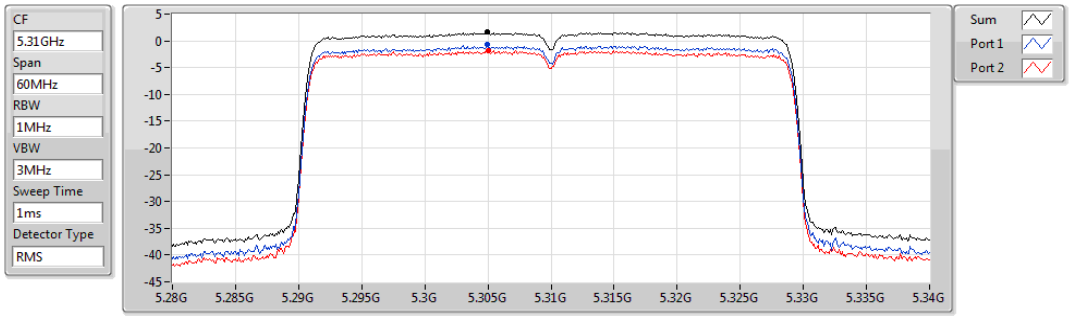
5270MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.84	6.84	4.41	3.41

11AX40_Nss1,(MCS0)_2TX **PSD**

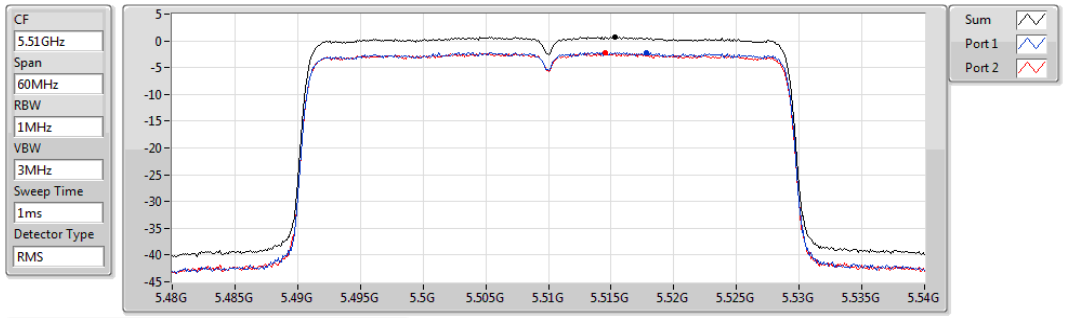
5310MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.75	1.75	-0.75	-1.79

11AX40_Nss1,(MCS0)_2TX **PSD**

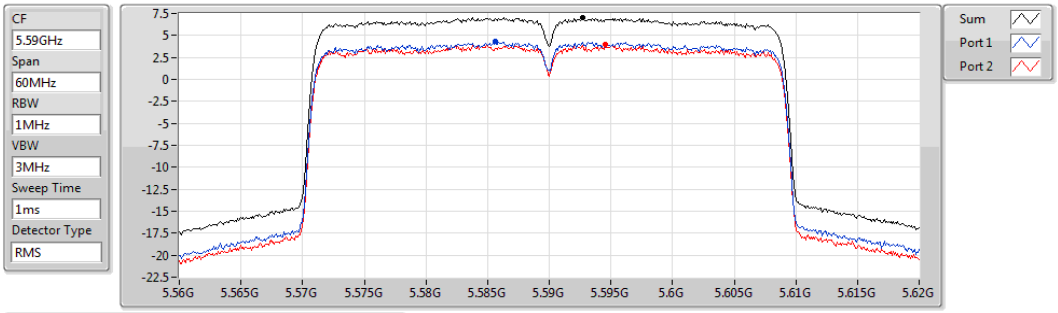
5510MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.73	0.73	-2.15	-2.28

11AX40_Nss1,(MCS0)_2TX **PSD**

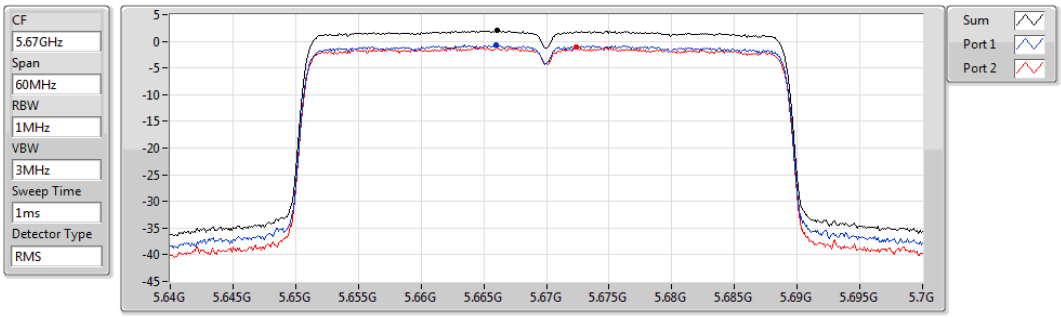
5590MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.03	7.03	4.34	3.97

11AX40_Nss1,(MCS0)_2TX **PSD**

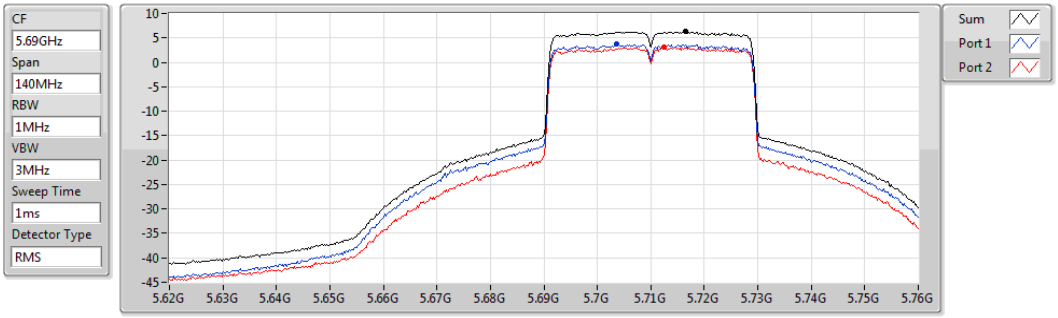
5670MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.07	2.07	-0.66	-1.13

11AX40_Nss1,(MCS0)_2TX **PSD**

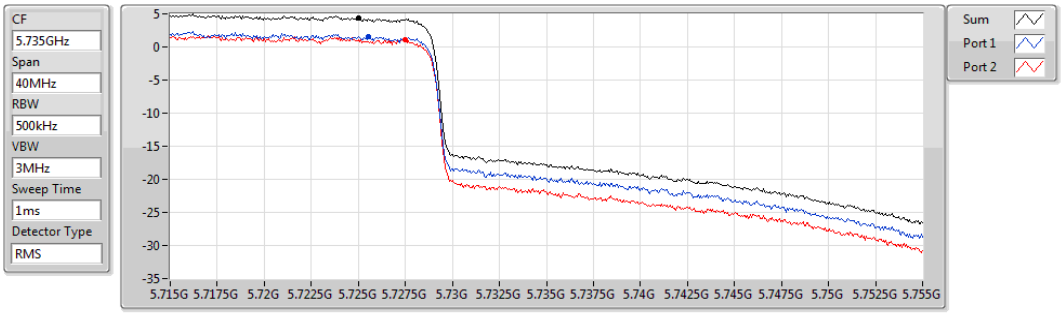
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.25	6.25	3.72	3.07

11AX40_Nss1,(MCS0)_2TX **PSD**

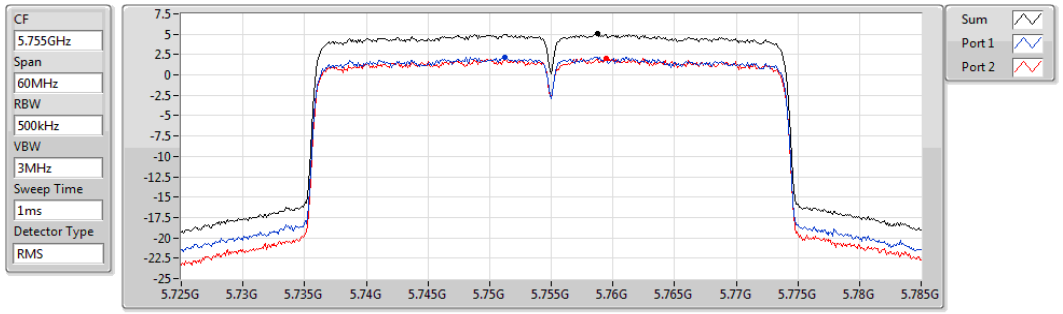
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.31	4.31	1.61	1.13

11AX40_Nss1,(MCS0)_2TX **PSD**

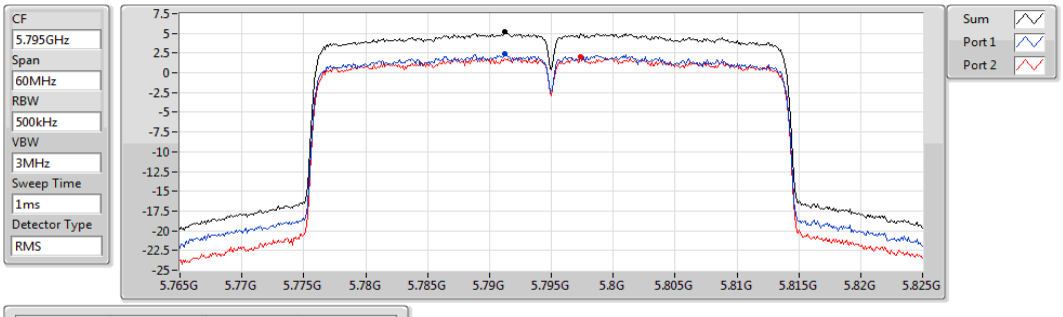
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.04	5.04	2.22	2.00

11AX40_Nss1,(MCS0)_2TX **PSD**

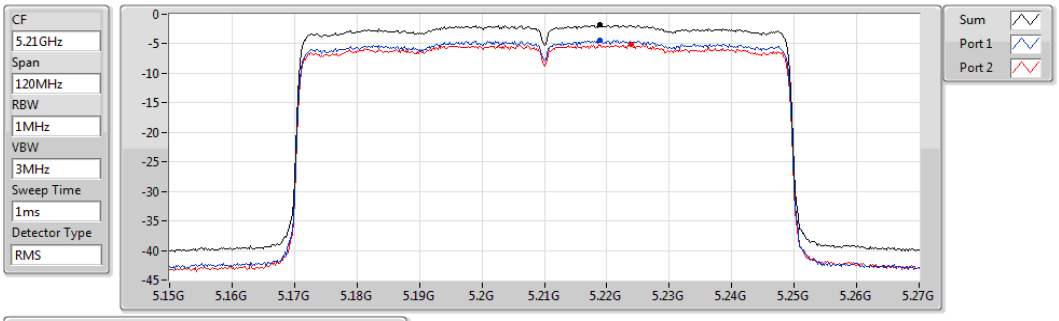
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.17	5.17	2.45	1.98

11AX80_Nss1,(MCS0)_2TX **PSD**

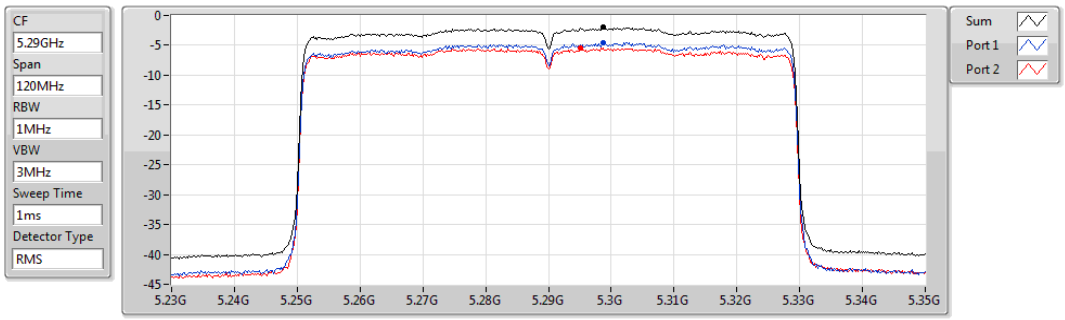
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.75	-1.75	-4.31	-5.12

11AX80_Nss1,(MCS0)_2TX **PSD**

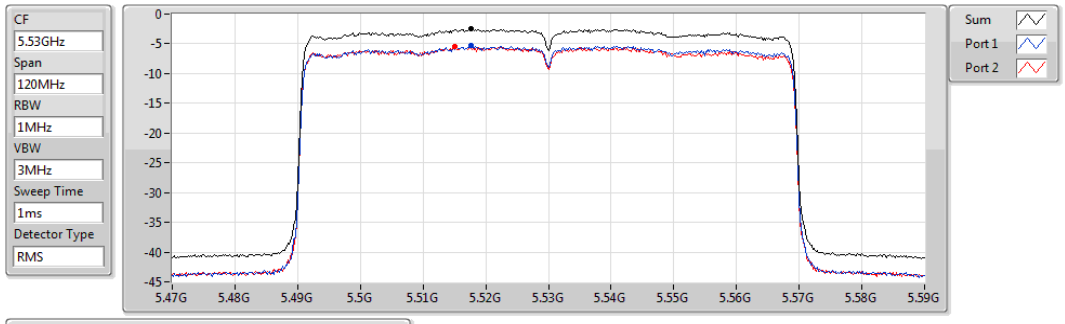
5290MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.97	-1.97	-4.50	-5.48

11AX80_Nss1,(MCS0)_2TX **PSD**

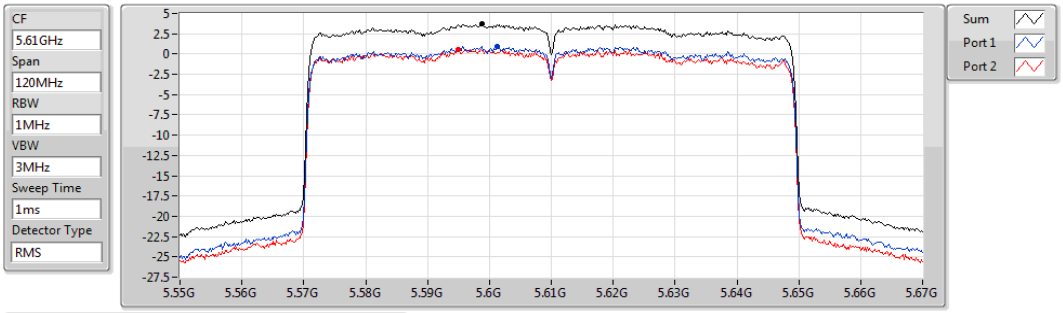
5530MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.46	-2.46	-5.36	-5.40

11AX80_Nss1,(MCS0)_2TX **PSD**

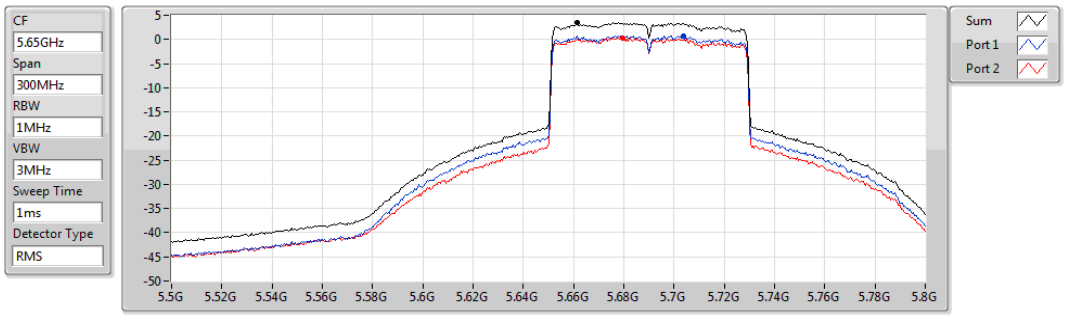
5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.68	3.68	0.95	0.56

11AX80_Nss1,(MCS0)_2TX **PSD**

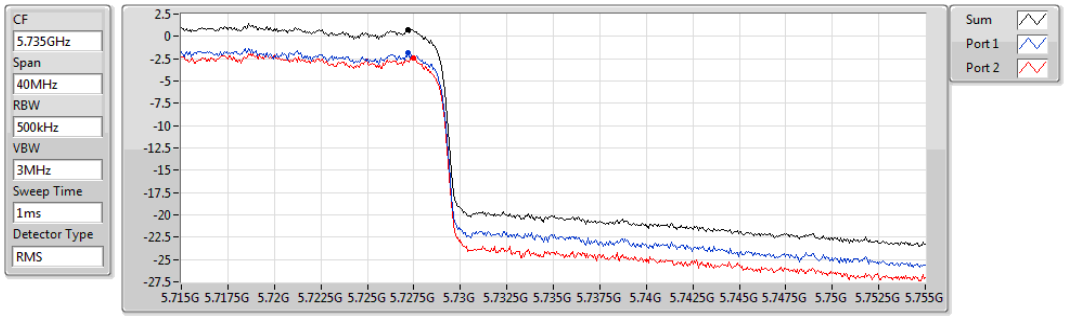
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.41	3.41	0.73	0.27

11AX80_Nss1,(MCS0)_2TX **PSD**

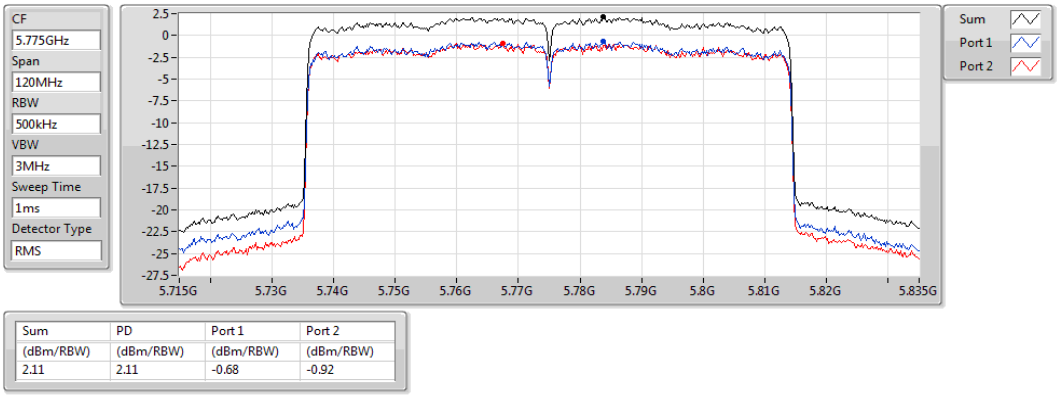
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.70	0.70	-1.89	-2.41

11AX80_Nss1,(MCS0)_2TX **PSD**

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.11	2.11	-0.68	-0.92

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

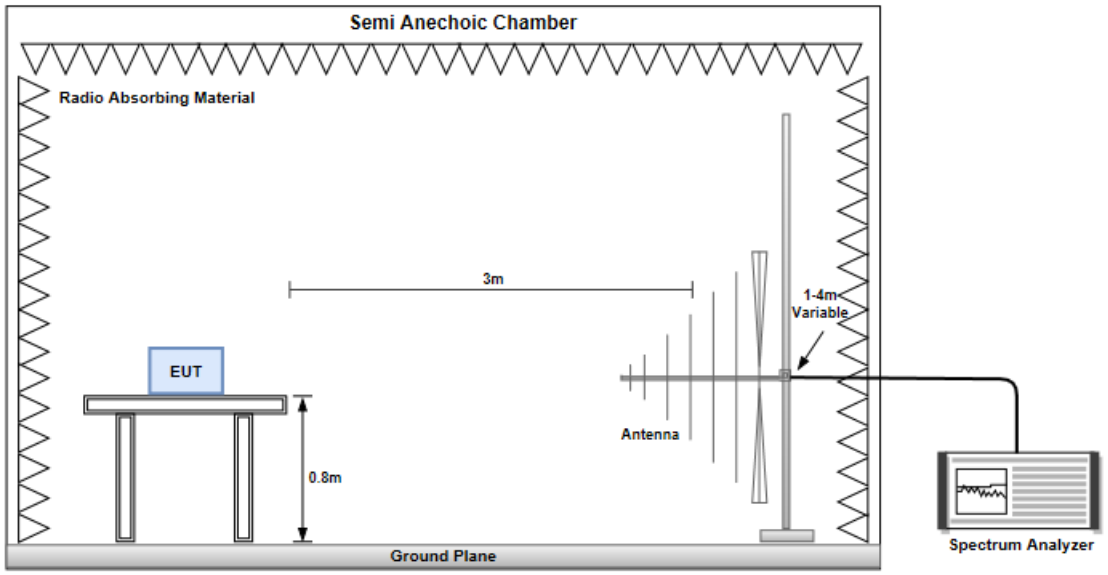
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

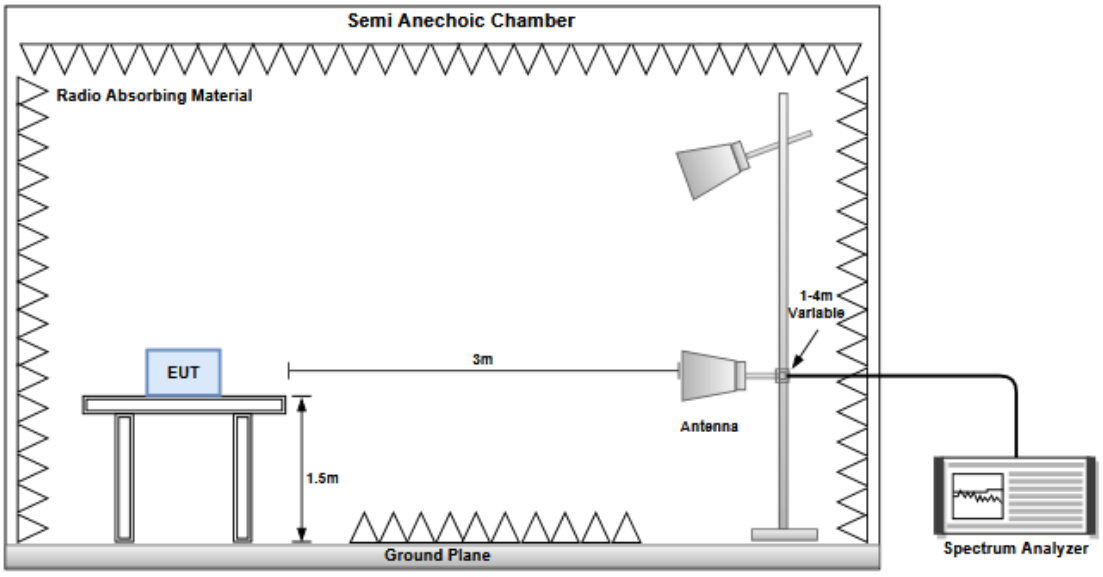
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



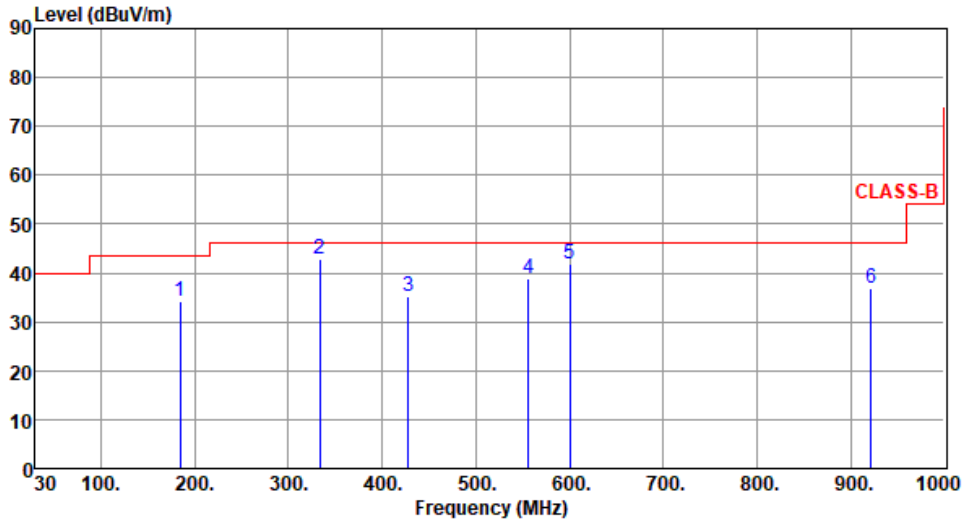
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	ax HE40	Test Freq. (MHz)	5270
Polarization	Horizontal		

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

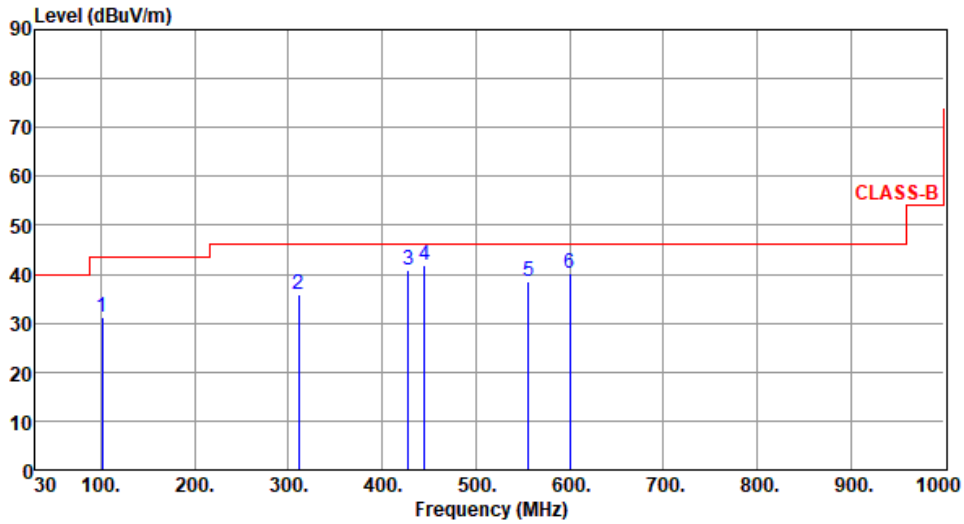


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	184.23	34.30	43.50	-9.20	44.93	-10.63	Peak	---	---
2	333.61	42.76	46.00	-3.24	50.12	-7.36	Peak	---	---
3	427.70	35.28	46.00	-10.72	40.18	-4.90	Peak	---	---
4	555.74	38.74	46.00	-7.26	41.05	-2.31	Peak	---	---
5	600.36	41.86	46.00	-4.14	42.87	-1.01	Peak	---	---
6	921.43	36.85	46.00	-9.15	32.88	3.97	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	ax HE40	Test Freq. (MHz)	5270
Polarization	Vertical		

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

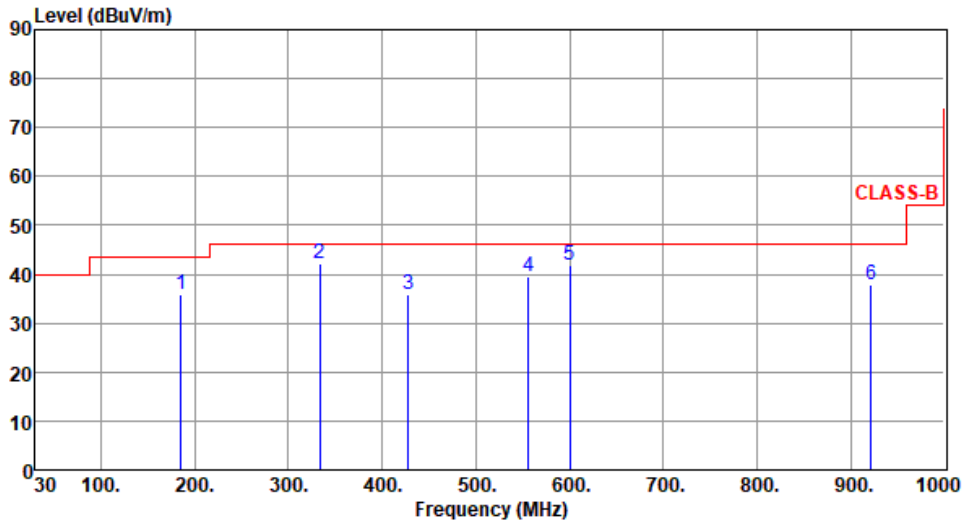


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	101.78	31.24	43.50	-12.26	44.16	-12.92	Peak	---	---
2	311.30	35.89	46.00	-10.11	43.65	-7.76	Peak	---	---
3	427.70	40.74	46.00	-5.26	45.64	-4.90	Peak	---	---
4	445.23	41.77	46.00	-4.23	46.13	-4.36	QP	100	158
5	555.74	38.59	46.00	-7.41	40.90	-2.31	Peak	---	---
6	600.36	40.21	46.00	-5.79	41.22	-1.01	Peak	---	---

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

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

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

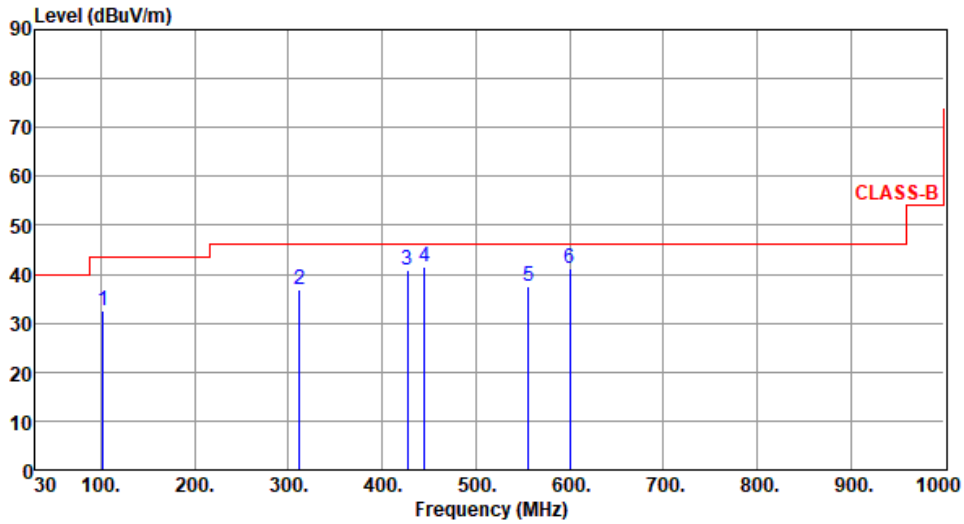


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	185.26	35.83	43.50	-7.67	46.59	-10.76	Peak	---	---
2	333.46	42.15	46.00	-3.85	49.51	-7.36	Peak	---	---
3	427.86	35.95	46.00	-10.05	40.85	-4.90	Peak	---	---
4	555.81	39.61	46.00	-6.39	41.92	-2.31	Peak	---	---
5	600.48	41.88	46.00	-4.12	42.89	-1.01	Peak	---	---
6	921.59	37.95	46.00	-8.05	33.98	3.97	Peak	---	---

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

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

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



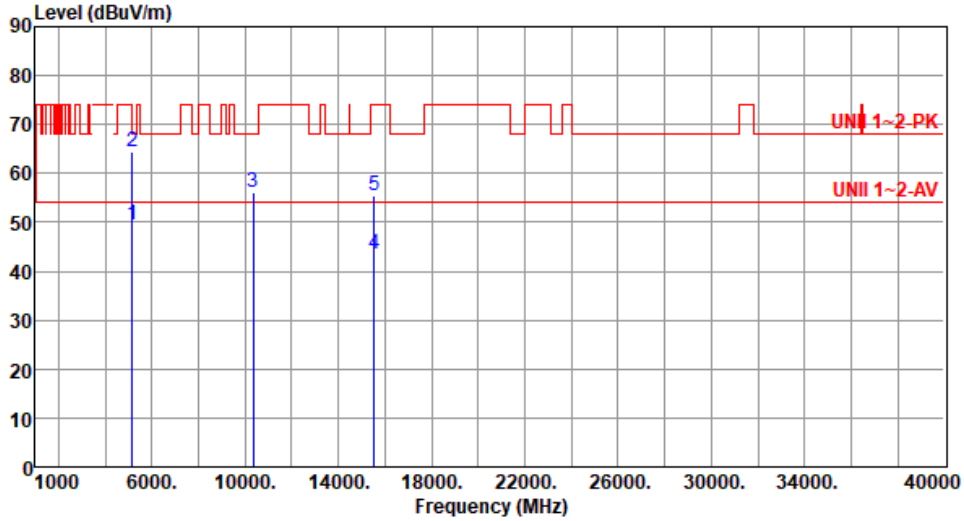
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	101.95	32.46	43.50	-11.04	45.33	-12.87	Peak	---	---
2	311.48	36.95	46.00	-9.05	44.70	-7.75	Peak	---	---
3	427.26	40.95	46.00	-5.05	45.87	-4.92	Peak	---	---
4	445.16	41.67	46.00	-4.33	46.03	-4.36	QP	100	161
5	555.95	37.46	46.00	-8.54	39.76	-2.30	Peak	---	---
6	600.48	41.11	46.00	-4.89	42.12	-1.01	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.

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

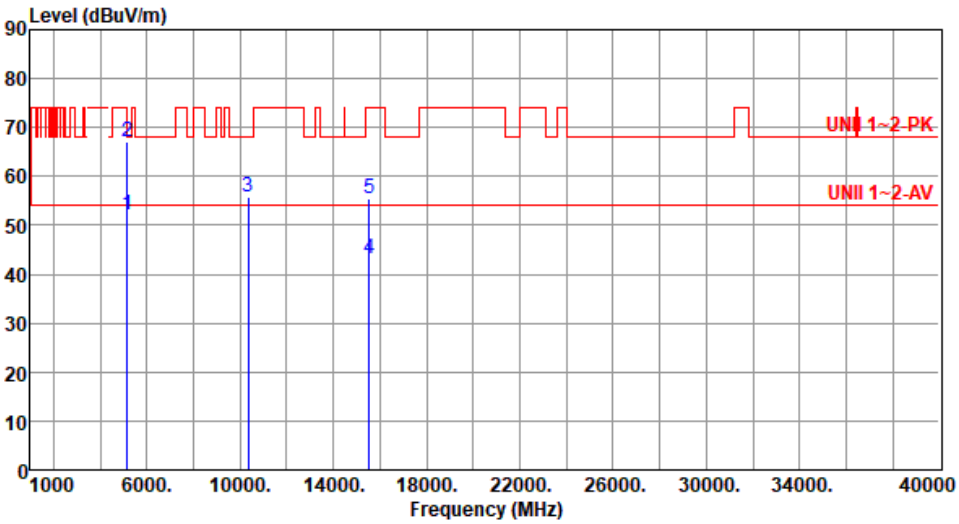


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.35	54.00	-4.65	44.34	5.01	Average	100	326
2	5150.00	64.27	74.00	-9.73	59.26	5.01	Peak	100	326
3	10360.00	56.10	68.20	-12.10	41.89	14.21	Peak	100	202
4	15540.00	43.49	54.00	-10.51	29.85	13.64	Average	100	206
5	15540.00	55.57	74.00	-18.43	41.93	13.64	Peak	100	206

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

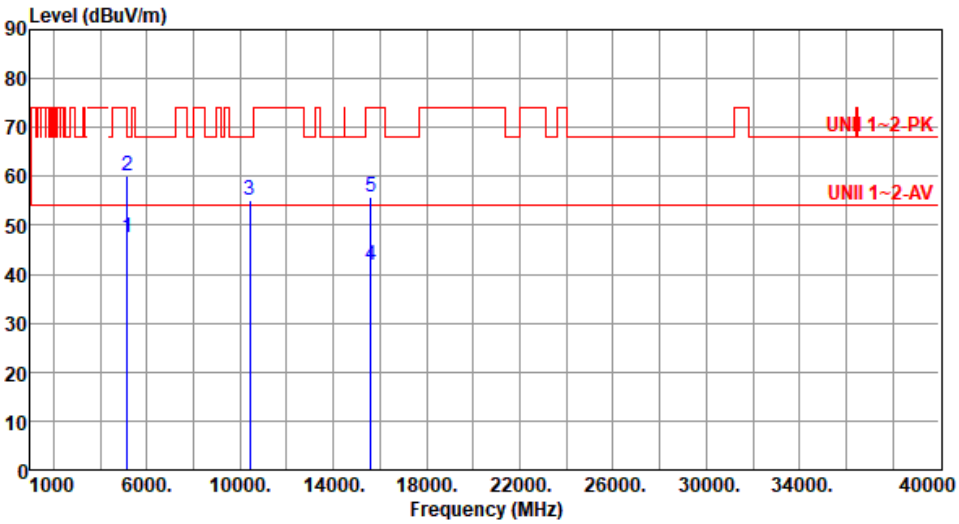


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.30	54.00	-1.70	47.29	5.01	Average	100	291
2	5150.00	67.24	74.00	-6.76	62.23	5.01	Peak	100	291
3	10360.00	55.91	68.20	-12.29	41.70	14.21	Peak	100	50
4	15540.00	43.27	54.00	-10.73	29.63	13.64	Average	100	55
5	15540.00	55.36	74.00	-18.64	41.72	13.64	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)	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

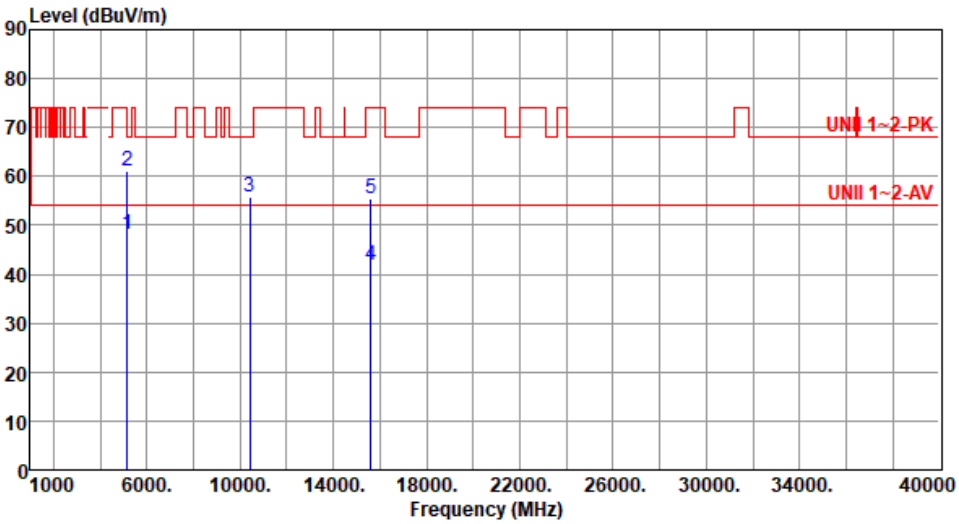


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.65	54.00	-6.35	42.64	5.01	Average	100	338
2	5150.00	60.22	74.00	-13.78	55.21	5.01	Peak	100	338
3	10400.00	55.08	68.20	-13.12	40.75	14.33	Peak	100	29
4	15600.00	42.00	54.00	-12.00	28.67	13.33	Average	100	60
5	15600.00	55.79	74.00	-18.21	42.46	13.33	Peak	100	60

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

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

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

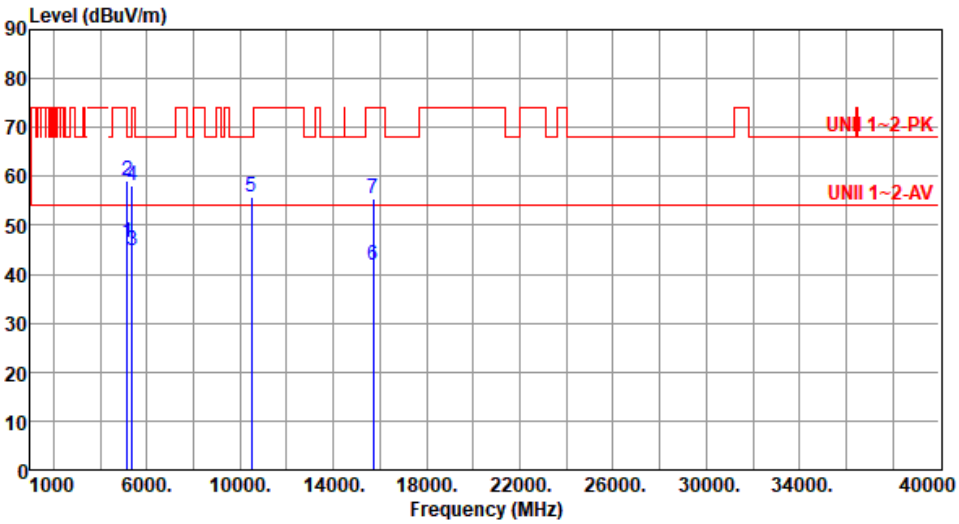


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.30	54.00	-5.70	43.29	5.01	Average	100	297
2	5150.00	61.27	74.00	-12.73	56.26	5.01	Peak	100	297
3	10400.00	55.74	68.20	-12.46	41.41	14.33	Peak	100	349
4	15600.00	41.90	54.00	-12.10	28.57	13.33	Average	100	30
5	15600.00	55.59	74.00	-18.41	42.26	13.33	Peak	100	30

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

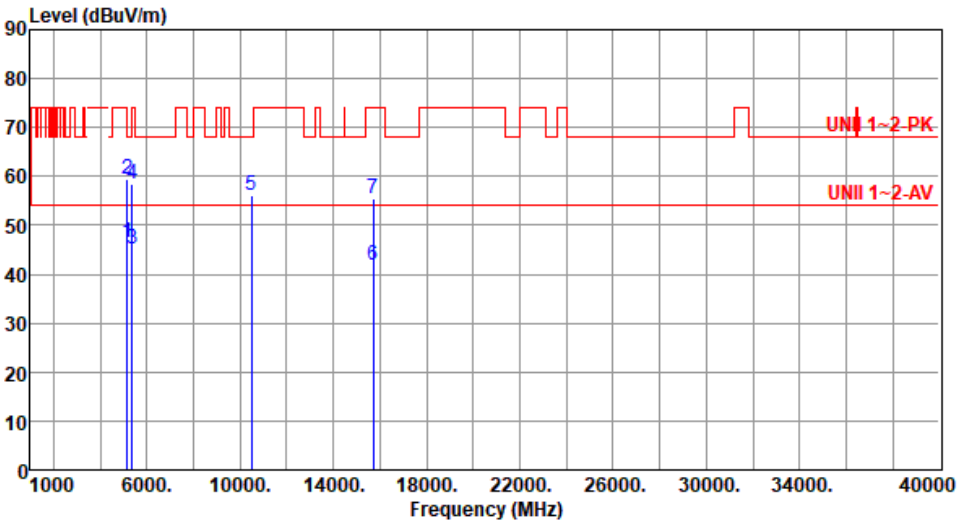


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.46	54.00	-7.54	41.45	5.01	Average	100	332
2	5150.00	59.13	74.00	-14.87	54.12	5.01	Peak	100	332
3	5350.00	44.97	54.00	-9.03	40.55	4.42	Average	100	332
4	5350.00	57.97	74.00	-16.03	53.55	4.42	Peak	100	332
5	10480.00	55.92	68.20	-12.28	41.46	14.46	Peak	100	52
6	15720.00	41.79	54.00	-12.21	28.37	13.42	Average	100	51
7	15720.00	55.48	74.00	-18.52	42.06	13.42	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)	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

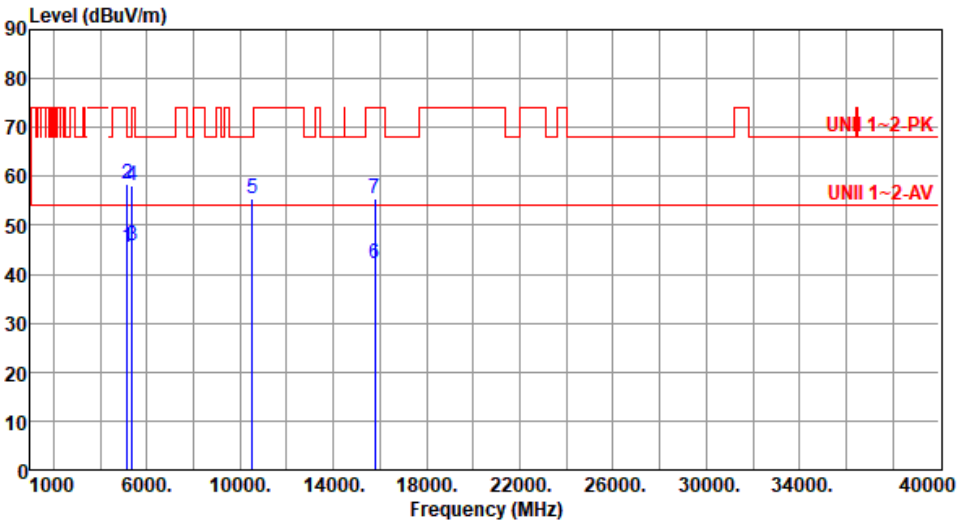


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.58	54.00	-7.42	41.57	5.01	Average	100	291
2	5150.00	59.31	74.00	-14.69	54.30	5.01	Peak	100	291
3	5350.00	45.06	54.00	-8.94	40.64	4.42	Average	100	291
4	5350.00	58.44	74.00	-15.56	54.02	4.42	Peak	100	291
5	10480.00	56.03	68.20	-12.17	41.57	14.46	Peak	100	345
6	15720.00	41.85	54.00	-12.15	28.43	13.42	Average	100	40
7	15720.00	55.56	74.00	-18.44	42.14	13.42	Peak	100	40

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

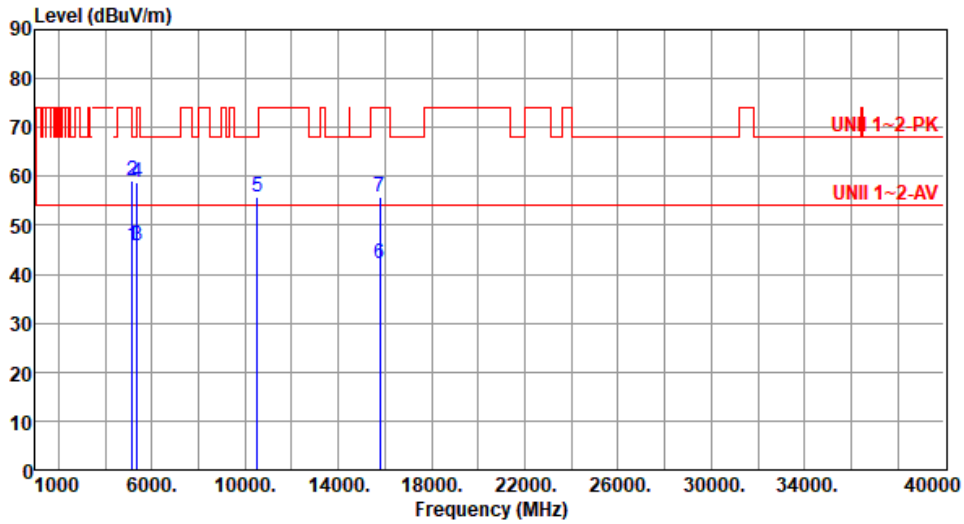


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.57	54.00	-8.43	40.56	5.01	Average	100	333
2	5150.00	58.56	74.00	-15.44	53.55	5.01	Peak	100	333
3	5350.00	45.67	54.00	-8.33	41.25	4.42	Average	100	333
4	5350.00	58.11	74.00	-15.89	53.69	4.42	Peak	100	333
5	10520.00	55.36	68.20	-12.84	40.89	14.47	Peak	100	50
6	15780.00	42.04	54.00	-11.96	28.56	13.48	Average	100	53
7	15780.00	55.42	74.00	-18.58	41.94	13.48	Peak	100	53

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

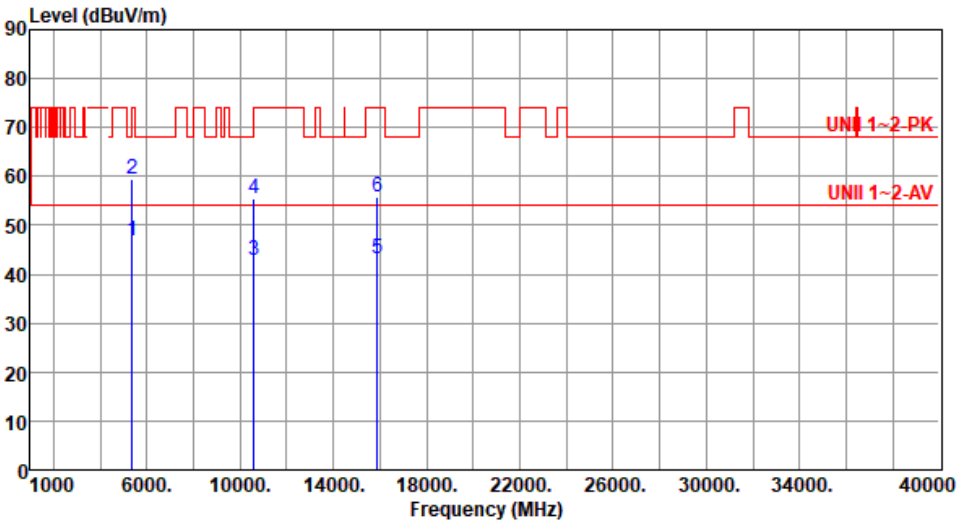


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.69	54.00	-8.31	40.68	5.01	Average	100	294
2	5150.00	59.00	74.00	-15.00	53.99	5.01	Peak	100	294
3	5350.00	45.77	54.00	-8.23	41.35	4.42	Average	100	294
4	5350.00	58.79	74.00	-15.21	54.37	4.42	Peak	100	294
5	10520.00	55.67	68.20	-12.53	41.20	14.47	Peak	100	60
6	15780.00	42.12	54.00	-11.88	28.64	13.48	Average	100	80
7	15780.00	55.65	74.00	-18.35	42.17	13.48	Peak	100	80

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

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

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

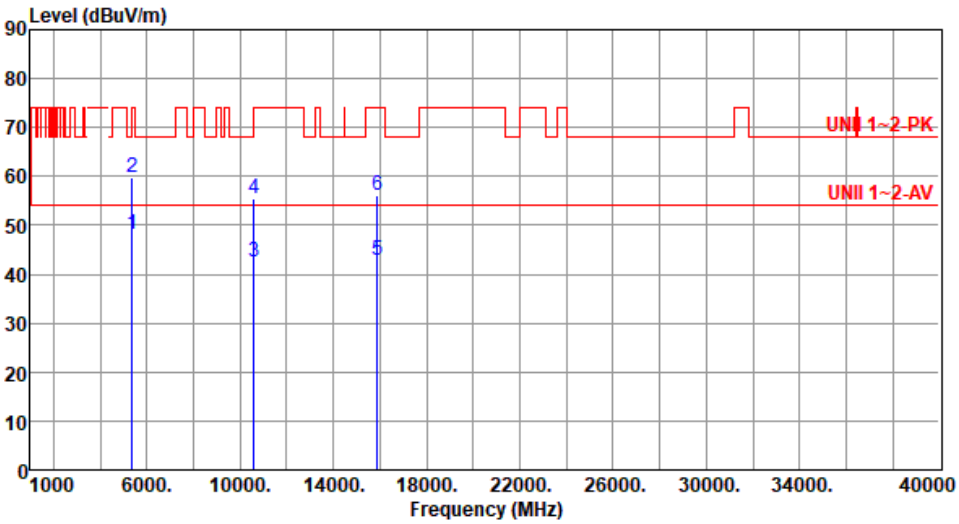


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.67	54.00	-7.33	42.25	4.42	Average	100	324
2	5350.00	59.53	74.00	-14.47	55.11	4.42	Peak	100	324
3	10600.00	42.88	54.00	-11.12	28.53	14.35	Average	100	70
4	10600.00	55.61	74.00	-18.39	41.26	14.35	Peak	100	70
5	15900.00	43.13	54.00	-10.87	29.56	13.57	Average	100	80
6	15900.00	55.88	74.00	-18.12	42.31	13.57	Peak	100	80

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

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

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

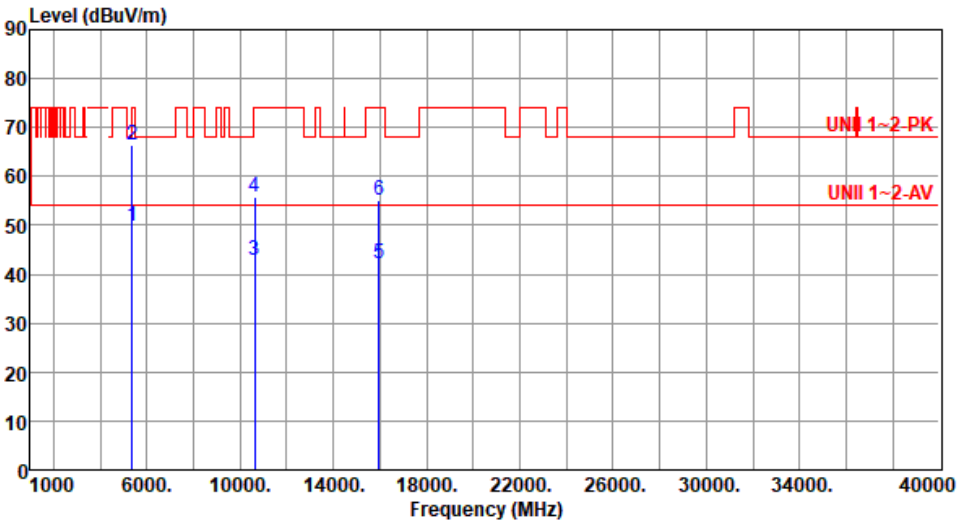


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	48.24	54.00	-5.76	43.82	4.42	Average	100	290
2	5350.00	59.68	74.00	-14.32	55.26	4.42	Peak	100	290
3	10600.00	42.60	54.00	-11.40	28.25	14.35	Average	100	50
4	10600.00	55.53	74.00	-18.47	41.18	14.35	Peak	100	50
5	15900.00	42.69	54.00	-11.31	29.12	13.57	Average	100	40
6	15900.00	56.03	74.00	-17.97	42.46	13.57	Peak	100	40

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

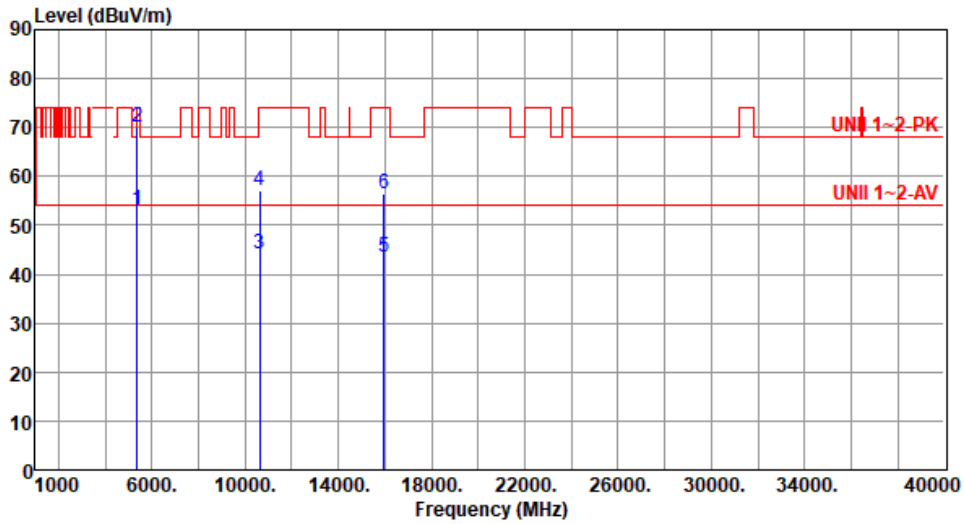


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	49.67	54.00	-4.33	45.25	4.42	Average	100	322
2	5350.00	66.53	74.00	-7.47	62.11	4.42	Peak	100	322
3	10640.00	42.82	54.00	-11.18	28.45	14.37	Average	100	51
4	10640.00	55.79	74.00	-18.21	41.42	14.37	Peak	100	51
5	15960.00	42.18	54.00	-11.82	28.50	13.68	Average	100	58
6	15960.00	55.18	74.00	-18.82	41.50	13.68	Peak	100	58

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

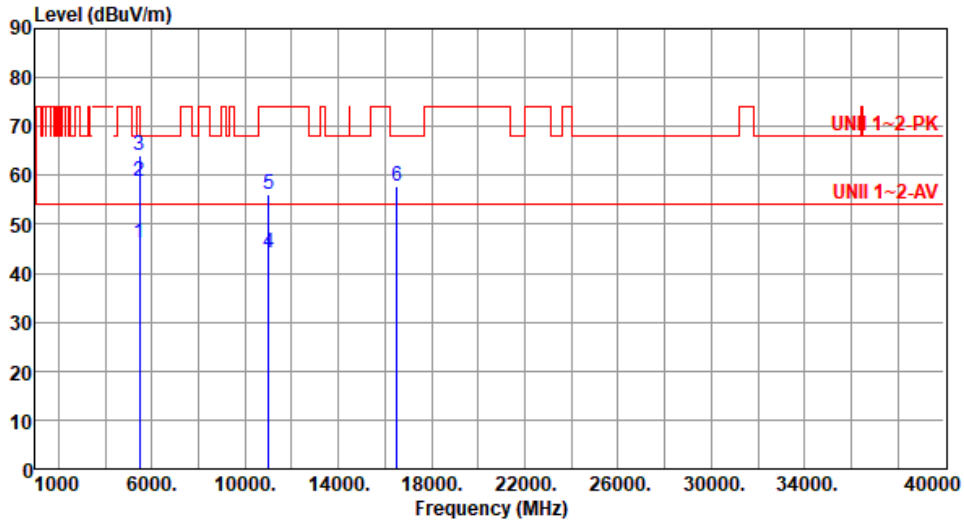


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	52.98	54.00	-1.02	48.56	4.42	Average	100	294
2	5350.00	70.06	74.00	-3.94	65.64	4.42	Peak	100	294
3	10640.00	44.17	54.00	-9.83	29.80	14.37	Average	100	207
4	10640.00	57.17	74.00	-16.83	42.80	14.37	Peak	100	207
5	15960.00	43.37	54.00	-10.63	29.69	13.68	Average	100	201
6	15960.00	56.54	74.00	-17.46	42.86	13.68	Peak	100	201

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

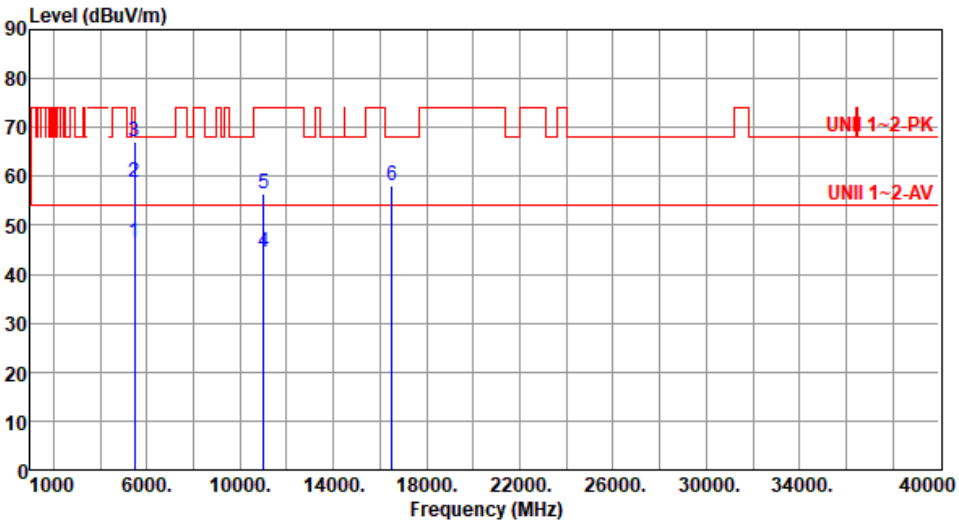


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.22	54.00	-7.78	41.55	4.67	Average	100	327
2	5460.00	58.79	74.00	-15.21	54.12	4.67	Peak	100	327
3	5470.00	64.25	68.20	-3.95	59.55	4.70	Peak	100	327
4	11000.00	44.05	54.00	-9.95	29.40	14.65	Average	100	57
5	11000.00	56.21	74.00	-17.79	41.56	14.65	Peak	100	57
6	16500.00	57.86	68.20	-10.34	41.52	16.34	Peak	100	58

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

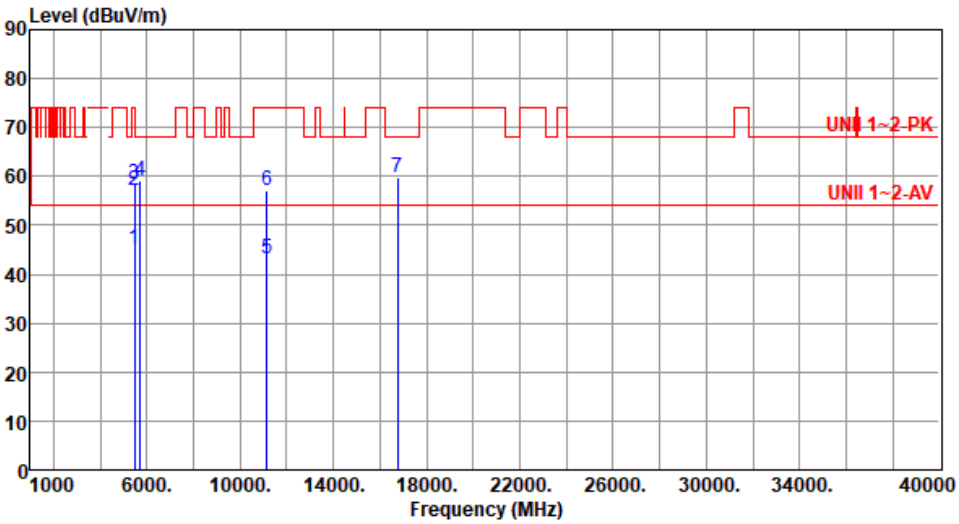


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.58	54.00	-7.42	41.91	4.67	Average	100	222
2	5460.00	58.94	74.00	-15.06	54.27	4.67	Peak	100	222
3	5470.00	67.18	68.20	-1.02	62.48	4.70	Peak	100	222
4	11000.00	44.49	54.00	-9.51	29.84	14.65	Average	100	208
5	11000.00	56.54	74.00	-17.46	41.89	14.65	Peak	100	208
6	16500.00	58.16	68.20	-10.04	41.82	16.34	Peak	100	201

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(℃):22 Humidity(%):67

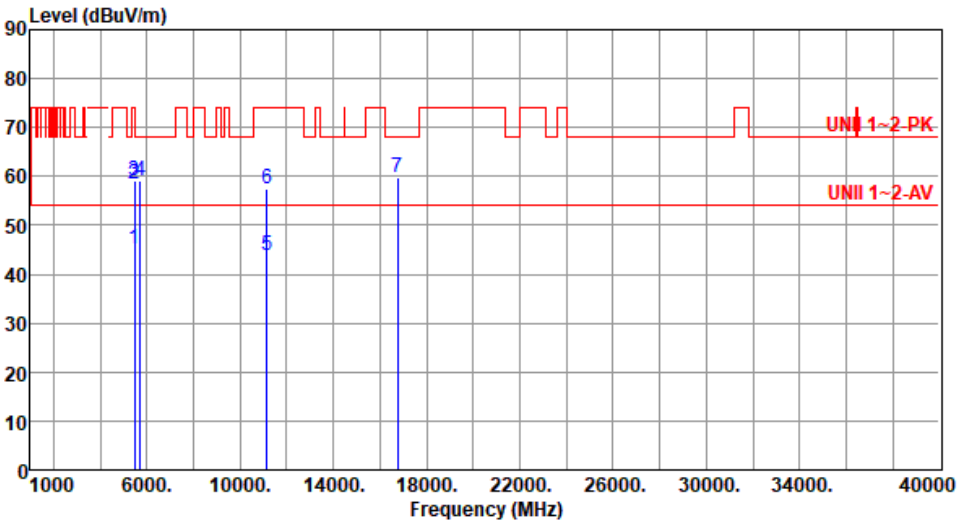


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.12	54.00	-8.88	40.45	4.67	Average	100	335
2	5460.00	57.23	74.00	-16.77	52.56	4.67	Peak	100	335
3	5470.00	58.33	68.20	-9.87	53.63	4.70	Peak	100	335
4	5725.00	59.13	68.20	-9.07	53.96	5.17	Peak	100	335
5	11160.00	43.14	54.00	-10.86	29.17	13.97	Average	251	16
6	11160.00	57.24	74.00	-16.76	43.27	13.97	Peak	251	16
7	16740.00	59.75	68.20	-8.45	42.58	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(℃):22 Humidity(%):67

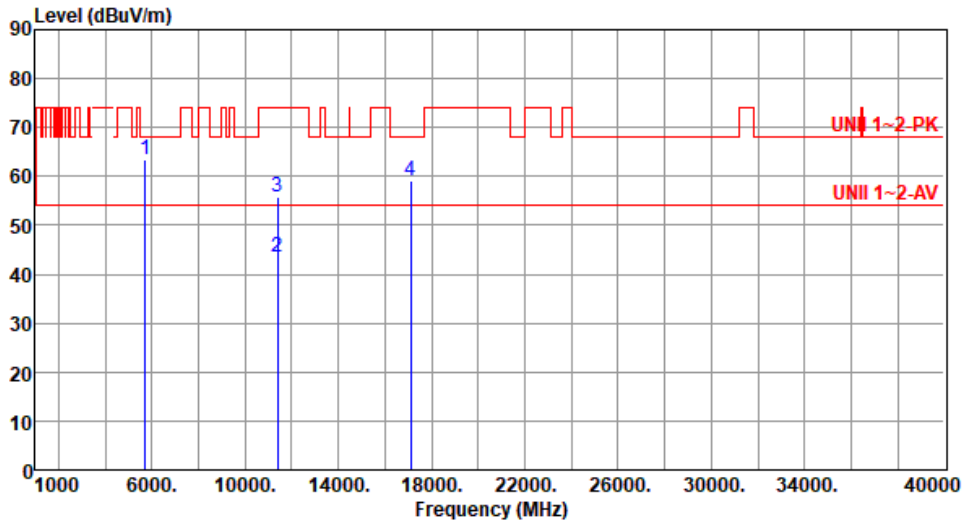


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.24	54.00	-8.76	40.57	4.67	Average	101	221
2	5460.00	58.57	74.00	-15.43	53.90	4.67	Peak	101	221
3	5470.00	58.96	68.20	-9.24	54.26	4.70	Peak	101	221
4	5725.00	59.19	68.20	-9.01	54.02	5.17	Peak	101	221
5	11160.00	43.77	54.00	-10.23	29.80	13.97	Average	100	210
6	11160.00	57.43	74.00	-16.57	43.46	13.97	Peak	100	210
7	16740.00	59.85	68.20	-8.35	42.68	17.17	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)	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

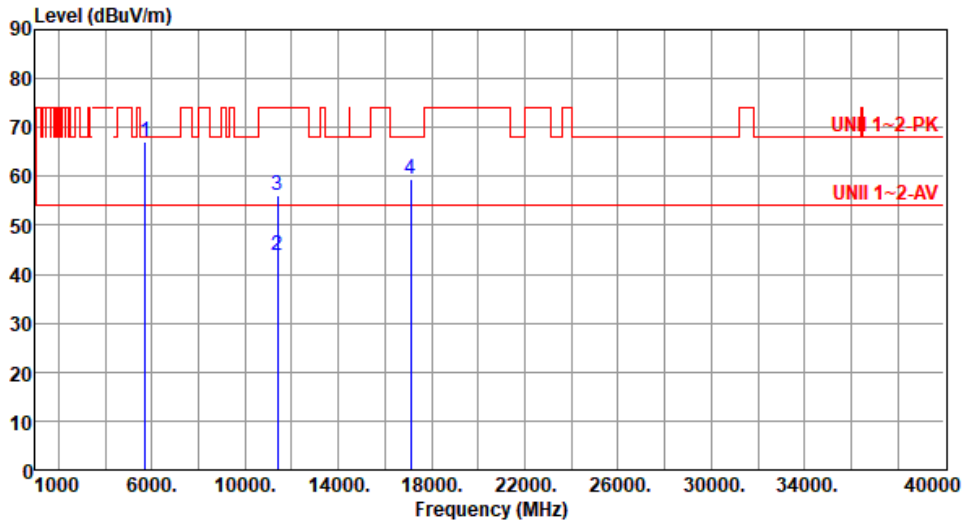


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	63.28	68.20	-4.92	58.11	5.17	Peak	100	329
2	11400.00	43.56	54.00	-10.44	29.42	14.14	Average	100	49
3	11400.00	55.67	74.00	-18.33	41.53	14.14	Peak	100	49
4	17100.00	59.02	68.20	-9.18	41.60	17.42	Peak	100	53

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

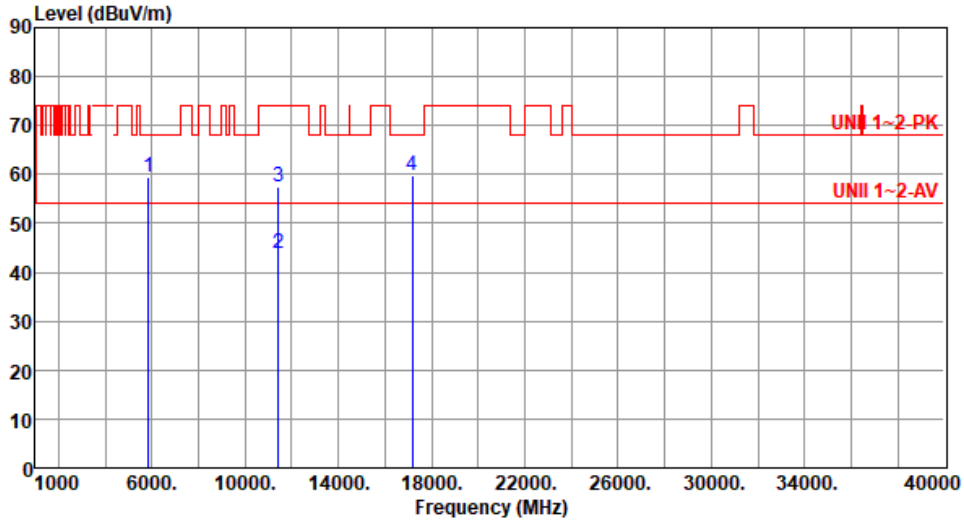


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	67.05	68.20	-1.15	61.88	5.17	Peak	100	214
2	11400.00	43.96	54.00	-10.04	29.82	14.14	Average	100	209
3	11400.00	56.11	74.00	-17.89	41.97	14.14	Peak	100	209
4	17100.00	59.31	68.20	-8.89	41.89	17.42	Peak	100	213

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	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

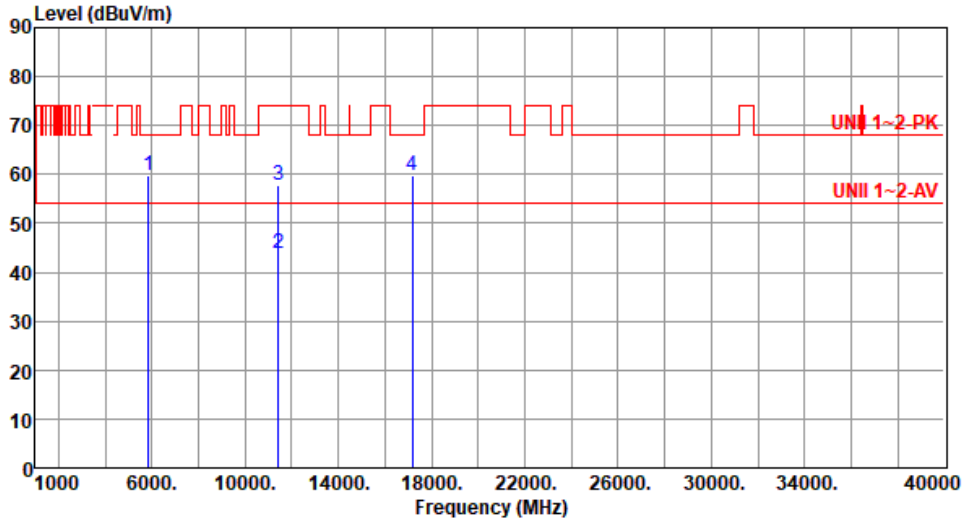


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.31	68.20	-8.89	53.66	5.65	Peak	100	329
2	11440.00	43.76	54.00	-10.24	29.50	14.26	Average	100	45
3	11440.00	57.51	74.00	-16.49	43.25	14.26	Peak	100	45
4	17160.00	59.82	68.20	-8.38	42.40	17.42	Peak	100	53

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		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

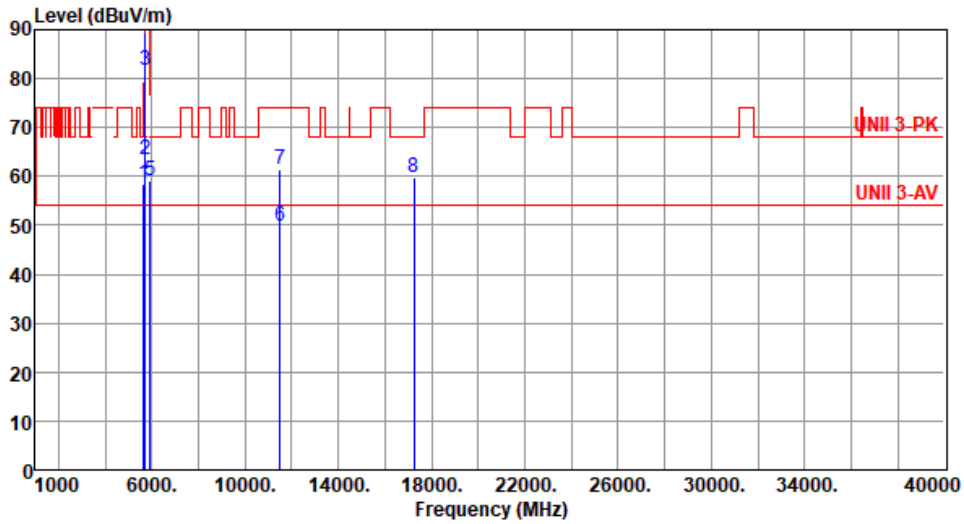


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.71	68.20	-8.49	54.06	5.65	Peak	105	223
2	11440.00	43.91	54.00	-10.09	29.65	14.26	Average	100	215
3	11440.00	57.82	74.00	-16.18	43.56	14.26	Peak	100	215
4	17160.00	59.91	68.20	-8.29	42.49	17.42	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)	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

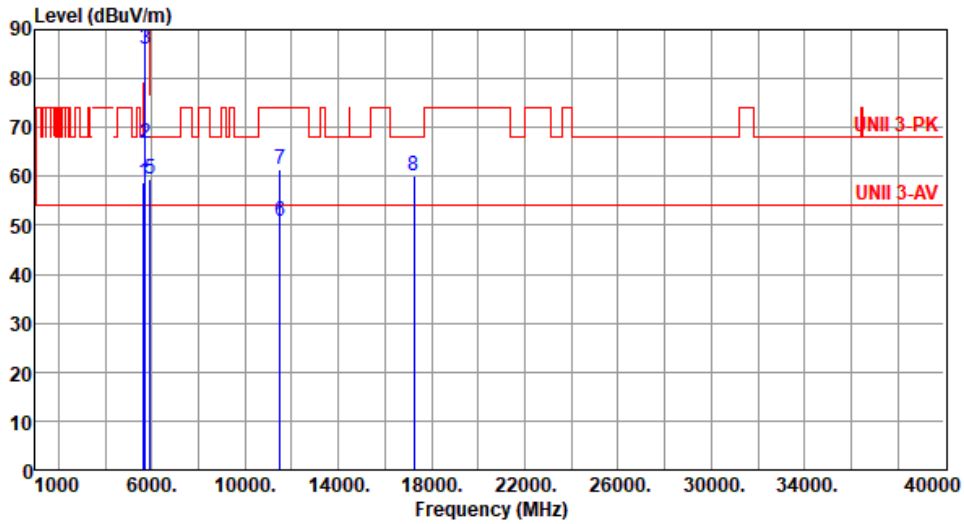


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.43	68.20	-9.77	53.62	4.81	Peak	100	328
2	5700.00	63.60	105.20	-41.60	58.58	5.02	Peak	100	328
3	5720.00	81.74	110.80	-29.06	76.60	5.14	Peak	100	328
4	5725.00	89.32	122.20	-32.88	84.15	5.17	Peak	100	328
5	5925.00	59.15	68.20	-9.05	53.54	5.61	Peak	100	328
6	11490.00	49.90	54.00	-4.10	35.51	14.39	Average	100	223
7	11490.00	61.28	74.00	-12.72	46.89	14.39	Peak	100	223
8	17235.00	59.79	68.20	-8.41	42.33	17.46	Peak	100	54

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

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

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

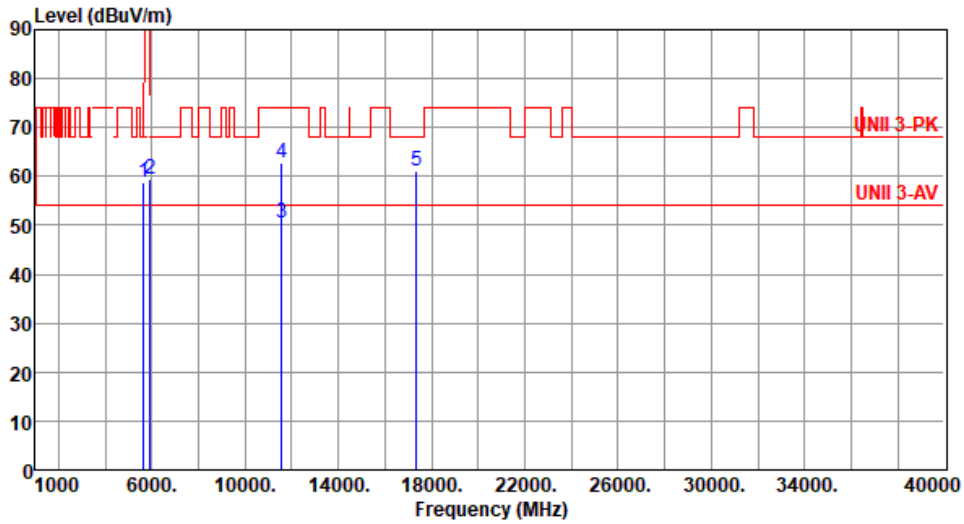


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.85	68.20	-9.35	54.04	4.81	Peak	100	215
2	5700.00	66.78	105.20	-38.42	61.76	5.02	Peak	100	215
3	5720.00	86.13	110.80	-24.67	80.99	5.14	Peak	100	215
4	5725.00	93.03	122.20	-29.17	87.86	5.17	Peak	100	215
5	5925.00	59.48	68.20	-8.72	53.87	5.61	Peak	100	215
6	11490.00	50.65	54.00	-3.35	36.26	14.39	Average	100	109
7	11490.00	61.55	74.00	-12.45	47.16	14.39	Peak	100	109
8	17235.00	59.95	68.20	-8.25	42.49	17.46	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)	5785
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

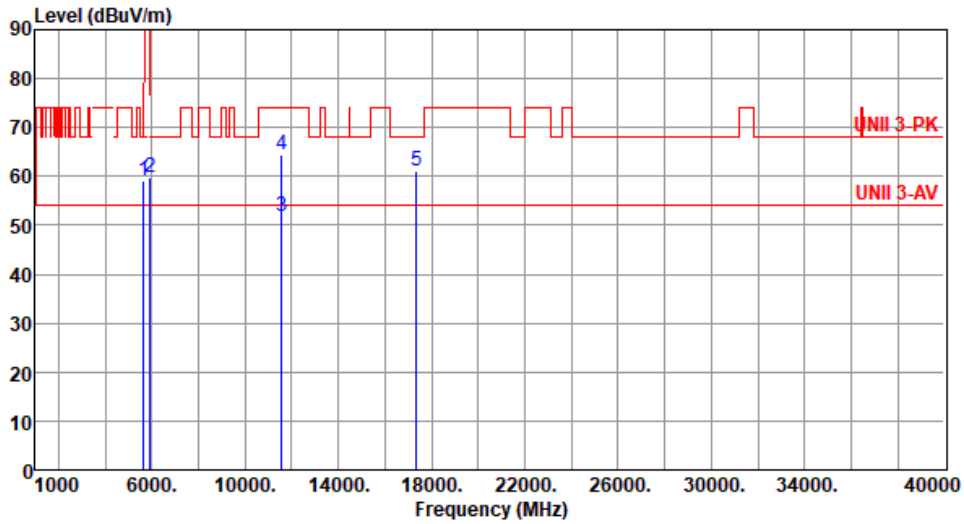


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.66	68.20	-9.54	53.85	4.81	Peak	100	327
2	5925.00	59.33	68.20	-8.87	53.72	5.61	Peak	100	327
3	11570.00	50.35	54.00	-3.65	36.10	14.25	Average	100	221
4	11570.00	62.65	74.00	-11.35	48.40	14.25	Peak	100	221
5	17355.00	61.05	68.20	-7.15	43.14	17.91	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)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

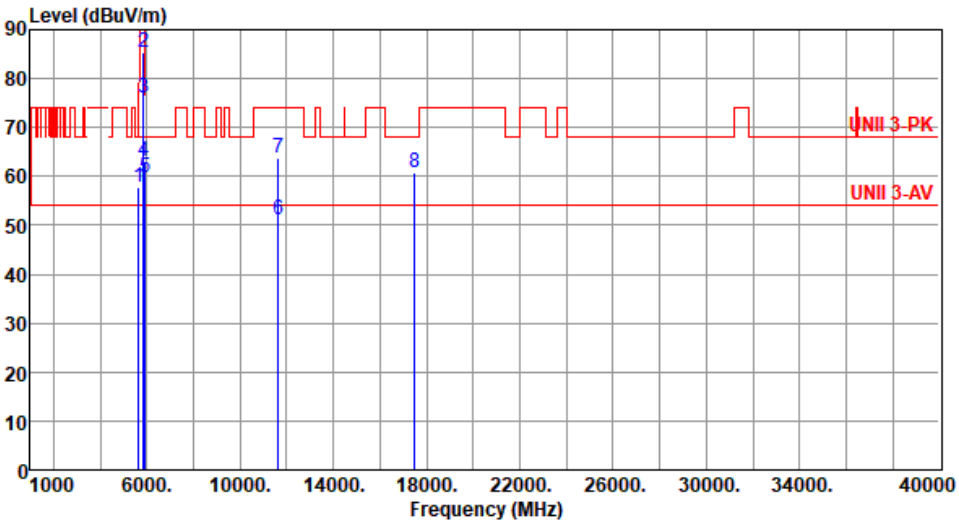


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.06	68.20	-9.14	54.25	4.81	Peak	100	216
2	5925.00	59.66	68.20	-8.54	54.05	5.61	Peak	100	216
3	11570.00	51.94	54.00	-2.06	37.69	14.25	Average	100	115
4	11570.00	64.49	74.00	-9.51	50.24	14.25	Peak	100	115
5	17355.00	61.26	68.20	-6.94	43.35	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
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

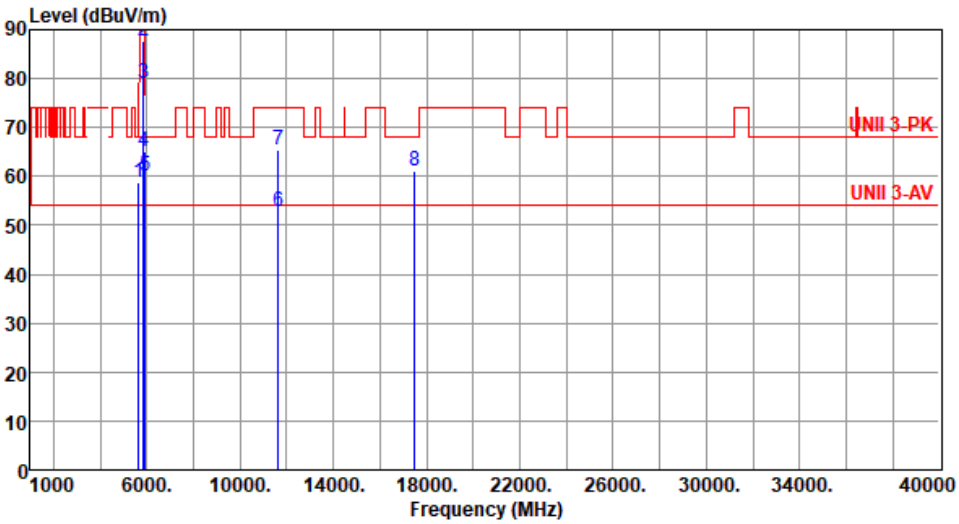


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.68	68.20	-10.52	52.87	4.81	Peak	100	333
2	5850.00	85.31	122.20	-36.89	79.66	5.65	Peak	100	333
3	5855.00	75.90	110.80	-34.90	70.25	5.65	Peak	100	333
4	5875.00	63.25	105.20	-41.95	57.59	5.66	Peak	100	333
5	5925.00	59.94	68.20	-8.26	54.33	5.61	Peak	100	333
6	11650.00	51.11	54.00	-2.89	37.21	13.90	Average	100	222
7	11650.00	63.77	74.00	-10.23	49.87	13.90	Peak	100	222
8	17475.00	60.79	68.20	-7.41	42.24	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65



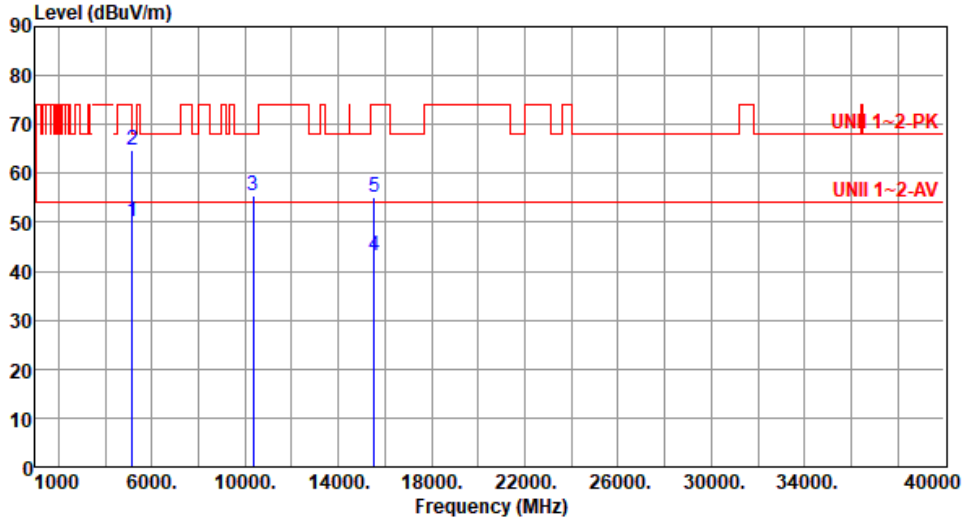
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.86	68.20	-9.34	54.05	4.81	Peak	100	214
2	5850.00	87.82	122.20	-34.38	82.17	5.65	Peak	100	214
3	5855.00	79.10	110.80	-31.70	73.45	5.65	Peak	100	214
4	5875.00	65.02	105.20	-40.18	59.36	5.66	Peak	100	214
5	5925.00	60.16	68.20	-8.04	54.55	5.61	Peak	100	214
6	11650.00	52.78	54.00	-1.22	38.88	13.90	Average	100	108
7	11650.00	65.36	74.00	-8.64	51.46	13.90	Peak	100	108
8	17475.00	60.99	68.20	-7.21	42.44	18.55	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).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

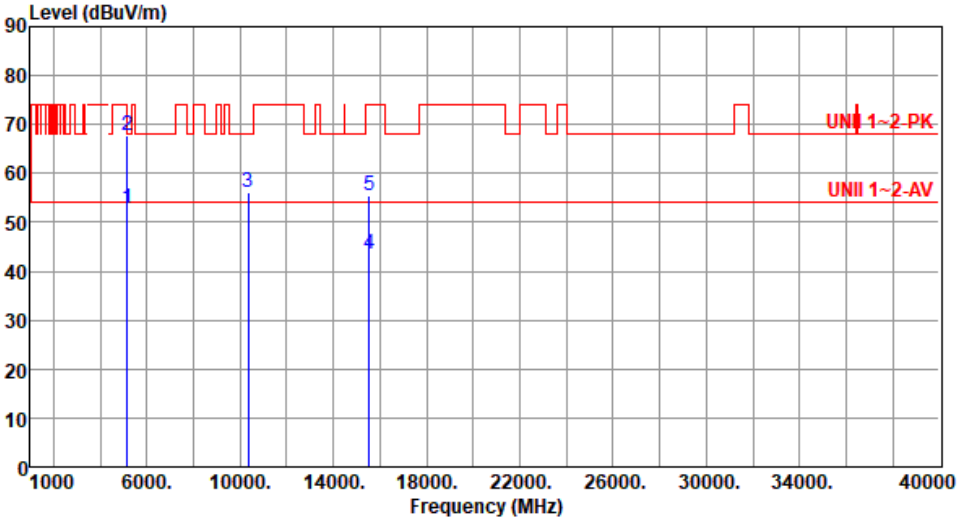


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.27	54.00	-3.73	45.26	5.01	Average	100	333
2	5150.00	64.89	74.00	-9.11	59.88	5.01	Peak	100	333
3	10360.00	55.62	68.20	-12.58	41.41	14.21	Peak	100	53
4	15540.00	43.12	54.00	-10.88	29.48	13.64	Average	100	56
5	15540.00	55.17	74.00	-18.83	41.53	13.64	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	ax HE20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

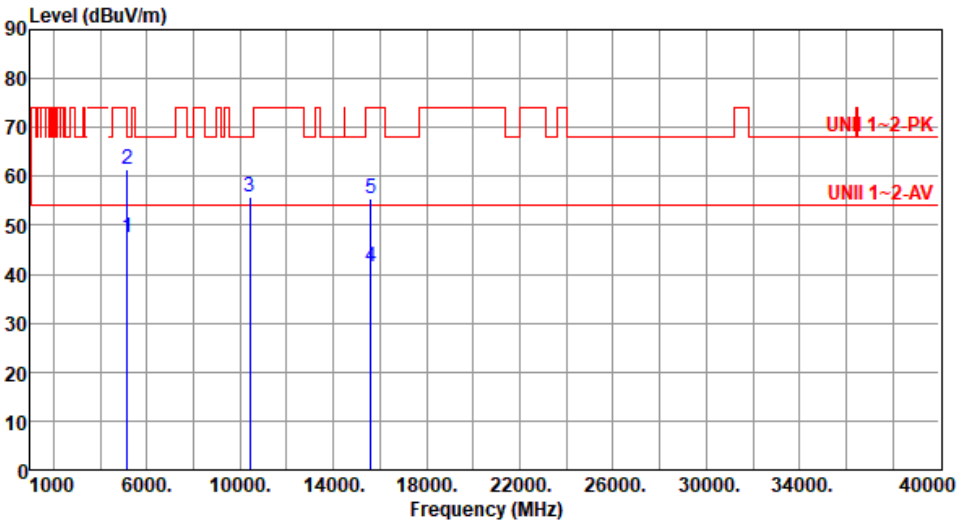


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.91	54.00	-1.09	47.90	5.01	Average	119	296
2	5150.00	67.82	74.00	-6.18	62.81	5.01	Peak	119	296
3	10360.00	56.02	68.20	-12.18	41.81	14.21	Peak	100	199
4	15540.00	43.38	54.00	-10.62	29.74	13.64	Average	100	192
5	15540.00	55.40	74.00	-18.60	41.76	13.64	Peak	100	192

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	ax HE20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

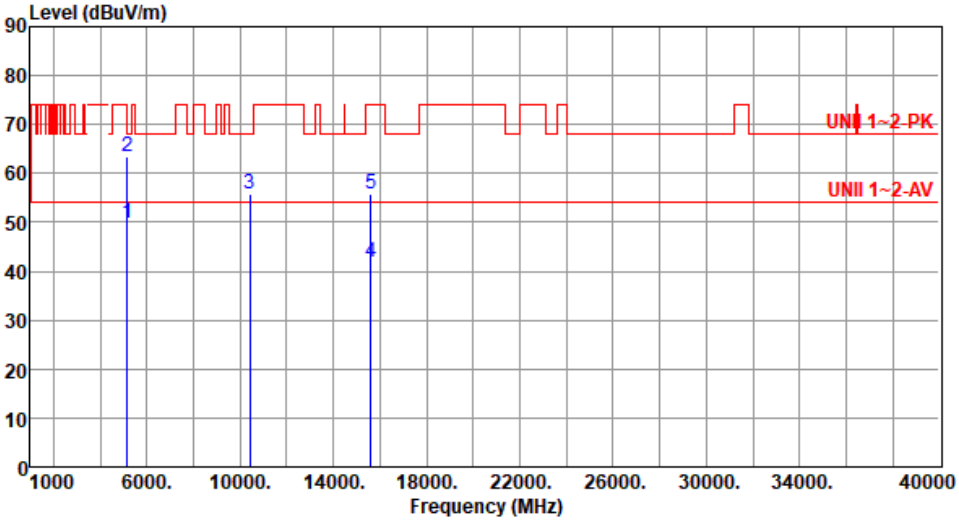


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.38	54.00	-6.62	42.37	5.01	Average	100	339
2	5150.00	61.29	74.00	-12.71	56.28	5.01	Peak	100	339
3	10400.00	55.81	68.20	-12.39	41.48	14.33	Peak	100	55
4	15600.00	41.66	54.00	-12.34	28.33	13.33	Average	100	59
5	15600.00	55.54	74.00	-18.46	42.21	13.33	Peak	100	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	ax HE20	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

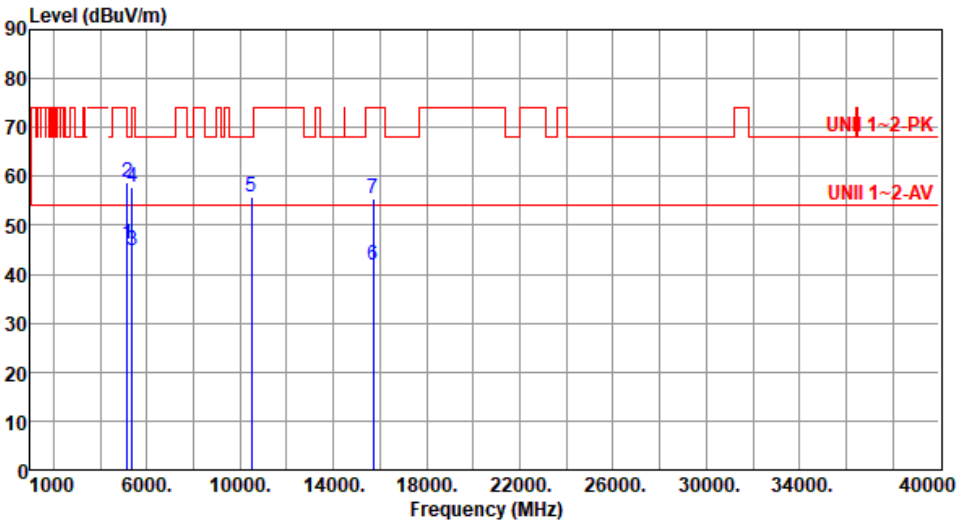


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.67	54.00	-4.33	44.66	5.01	Average	100	296
2	5150.00	63.38	74.00	-10.62	58.37	5.01	Peak	100	296
3	10400.00	55.89	68.20	-12.31	41.56	14.33	Peak	100	351
4	15600.00	41.75	54.00	-12.25	28.42	13.33	Average	100	50
5	15600.00	55.64	74.00	-18.36	42.31	13.33	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	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

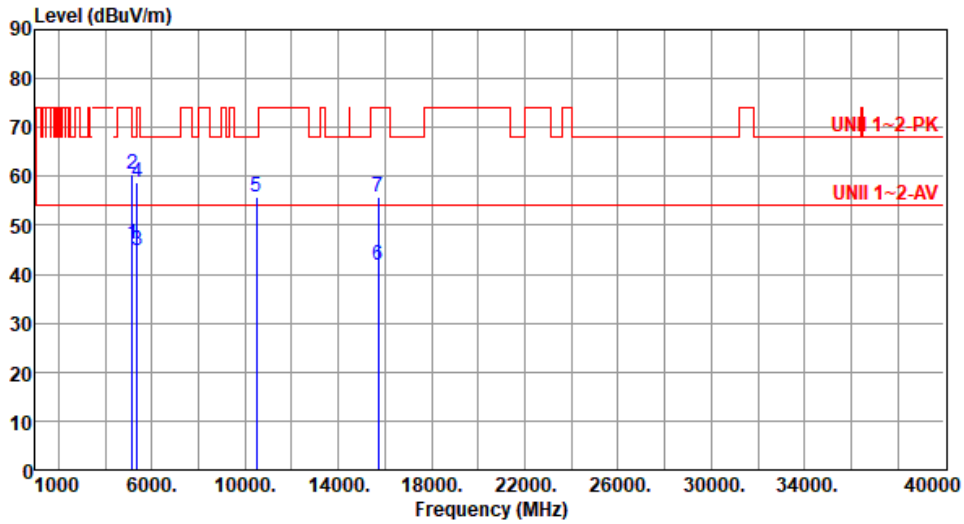


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.07	54.00	-7.93	41.06	5.01	Average	100	332
2	5150.00	58.71	74.00	-15.29	53.70	5.01	Peak	100	332
3	5350.00	44.84	54.00	-9.16	40.42	4.42	Average	100	332
4	5350.00	57.67	74.00	-16.33	53.25	4.42	Peak	100	332
5	10480.00	55.73	68.20	-12.47	41.27	14.46	Peak	100	57
6	15720.00	41.82	54.00	-12.18	28.40	13.42	Average	100	43
7	15720.00	55.61	74.00	-18.39	42.19	13.42	Peak	100	43

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	ax HE20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

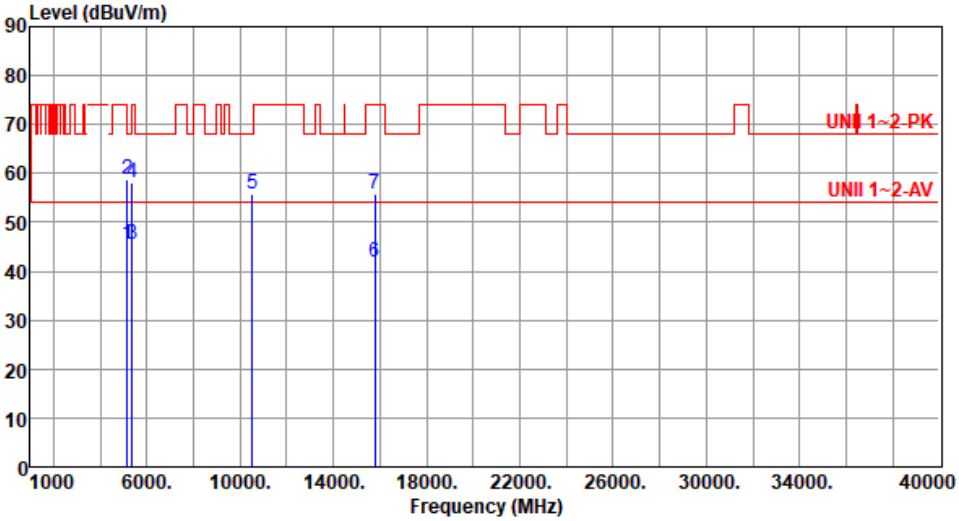


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.28	54.00	-7.72	41.27	5.01	Average	100	295
2	5150.00	60.28	74.00	-13.72	55.27	5.01	Peak	100	295
3	5350.00	45.00	54.00	-9.00	40.58	4.42	Average	100	295
4	5350.00	58.68	74.00	-15.32	54.26	4.42	Peak	100	295
5	10480.00	55.93	68.20	-12.27	41.47	14.46	Peak	100	342
6	15720.00	41.99	54.00	-12.01	28.57	13.42	Average	100	30
7	15720.00	55.69	74.00	-18.31	42.27	13.42	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	ax HE20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

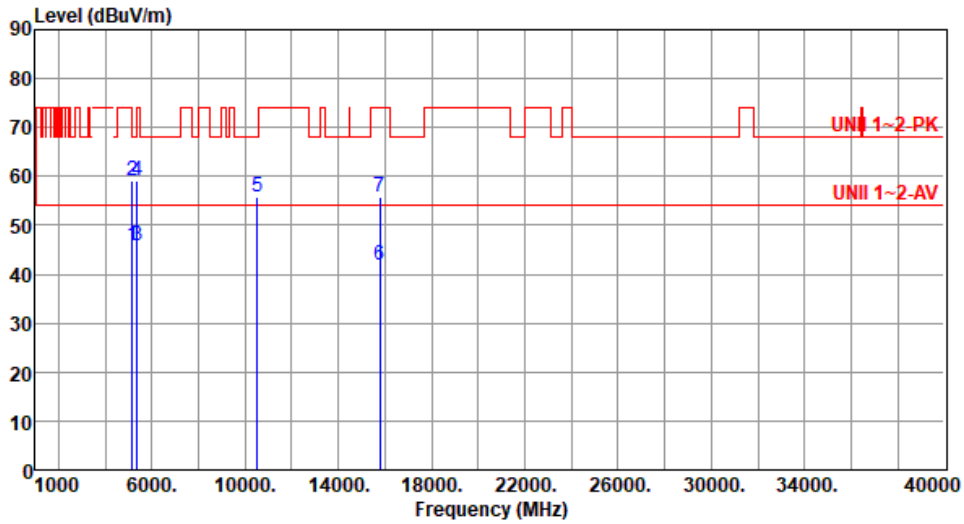


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.57	54.00	-8.43	40.56	5.01	Average	100	350
2	5150.00	58.65	74.00	-15.35	53.64	5.01	Peak	100	350
3	5350.00	45.47	54.00	-8.53	41.05	4.42	Average	100	350
4	5350.00	58.11	74.00	-15.89	53.69	4.42	Peak	100	350
5	10520.00	55.76	68.20	-12.44	41.29	14.47	Peak	100	51
6	15780.00	41.80	54.00	-12.20	28.32	13.48	Average	100	54
7	15780.00	55.72	74.00	-18.28	42.24	13.48	Peak	100	54

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	ax HE20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

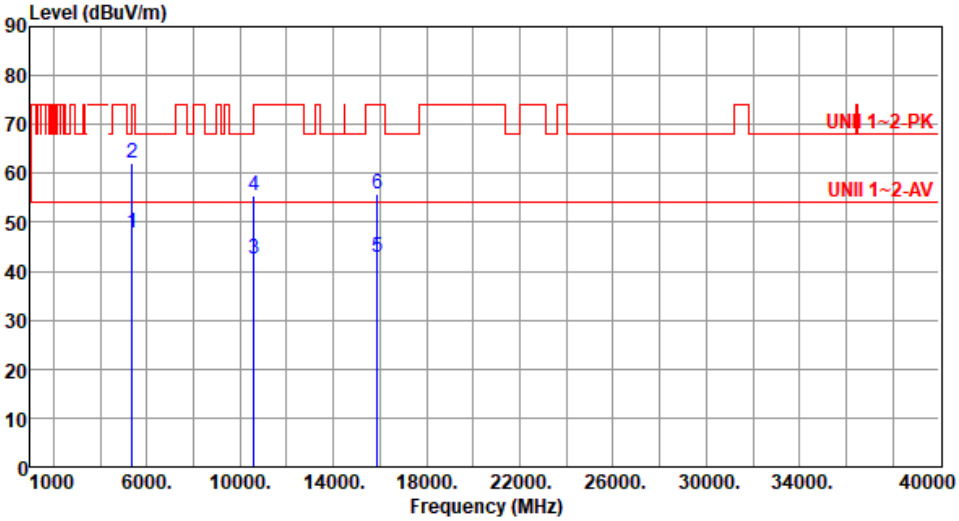


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.87	54.00	-8.13	40.86	5.01	Average	100	293
2	5150.00	59.28	74.00	-14.72	54.27	5.01	Peak	100	293
3	5350.00	45.67	54.00	-8.33	41.25	4.42	Average	100	293
4	5350.00	58.98	74.00	-15.02	54.56	4.42	Peak	100	293
5	10520.00	55.82	68.20	-12.38	41.35	14.47	Peak	100	55
6	15780.00	41.92	54.00	-12.08	28.44	13.48	Average	100	70
7	15780.00	55.80	74.00	-18.20	42.32	13.48	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	ax HE20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

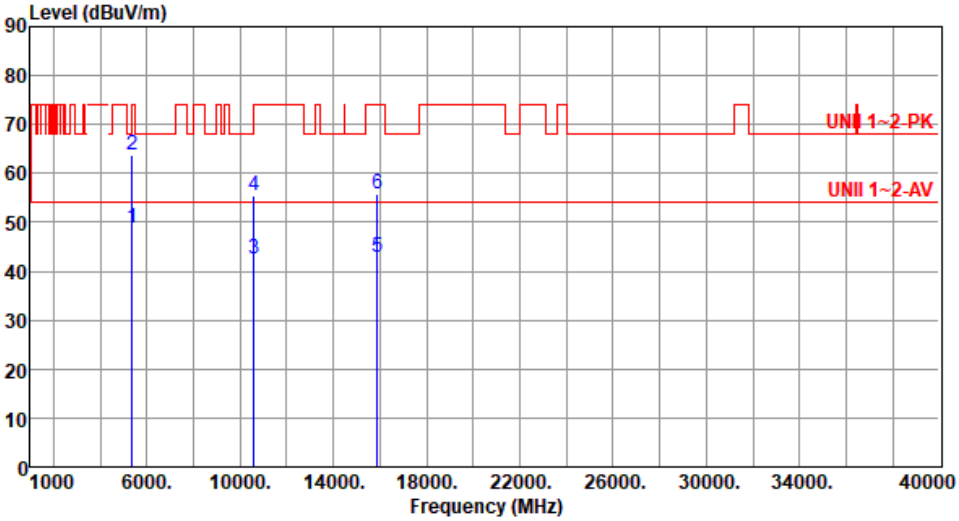


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	47.67	54.00	-6.33	43.25	4.42	Average	100	333
2	5350.00	62.26	74.00	-11.74	57.84	4.42	Peak	100	333
3	10600.00	42.36	54.00	-11.64	28.01	14.35	Average	100	47
4	10600.00	55.50	74.00	-18.50	41.15	14.35	Peak	100	47
5	15900.00	42.70	54.00	-11.30	29.13	13.57	Average	100	43
6	15900.00	55.76	74.00	-18.24	42.19	13.57	Peak	100	43

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	ax HE20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):22 Humidity(%):67

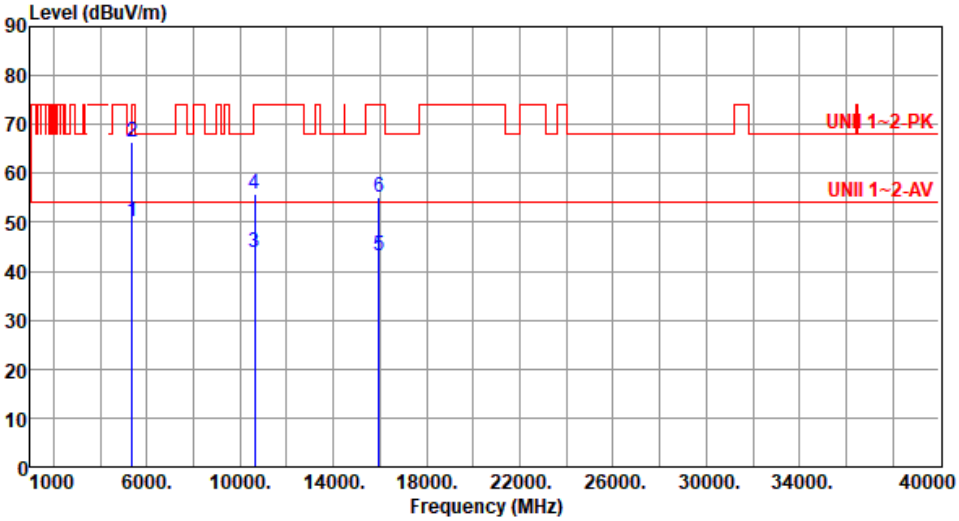


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	48.78	54.00	-5.22	44.36	4.42	Average	100	298
2	5350.00	63.63	74.00	-10.37	59.21	4.42	Peak	100	298
3	10600.00	42.48	54.00	-11.52	28.13	14.35	Average	100	30
4	10600.00	55.61	74.00	-18.39	41.26	14.35	Peak	100	30
5	15900.00	42.79	54.00	-11.21	29.22	13.57	Average	100	90
6	15900.00	55.88	74.00	-18.12	42.31	13.57	Peak	100	90

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

Modulation	ax HE20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

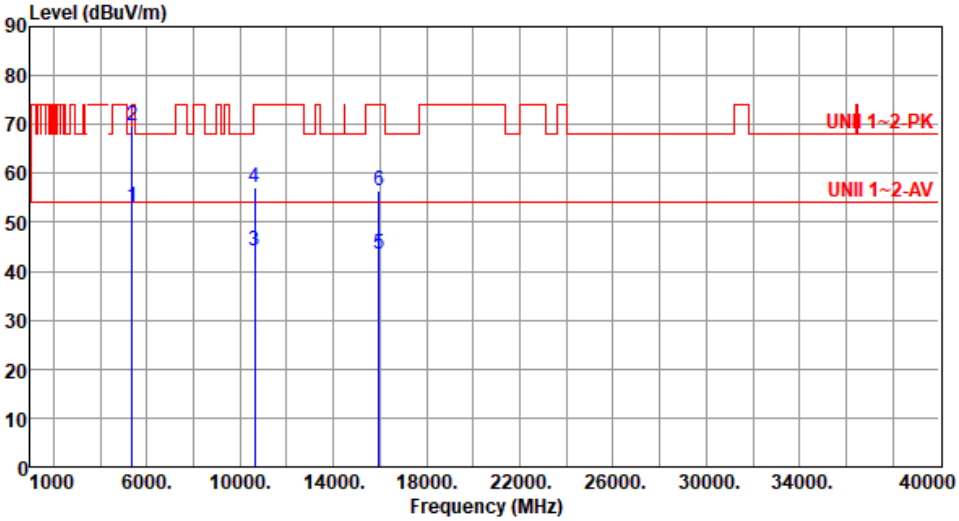


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	50.00	54.00	-4.00	45.58	4.42	Average	100	336
2	5350.00	66.44	74.00	-7.56	62.02	4.42	Peak	100	336
3	10640.00	43.76	54.00	-10.24	29.39	14.37	Average	100	54
4	10640.00	55.83	74.00	-18.17	41.46	14.37	Peak	100	54
5	15960.00	43.10	54.00	-10.90	29.42	13.68	Average	100	57
6	15960.00	55.11	74.00	-18.89	41.43	13.68	Peak	100	57

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	ax HE20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

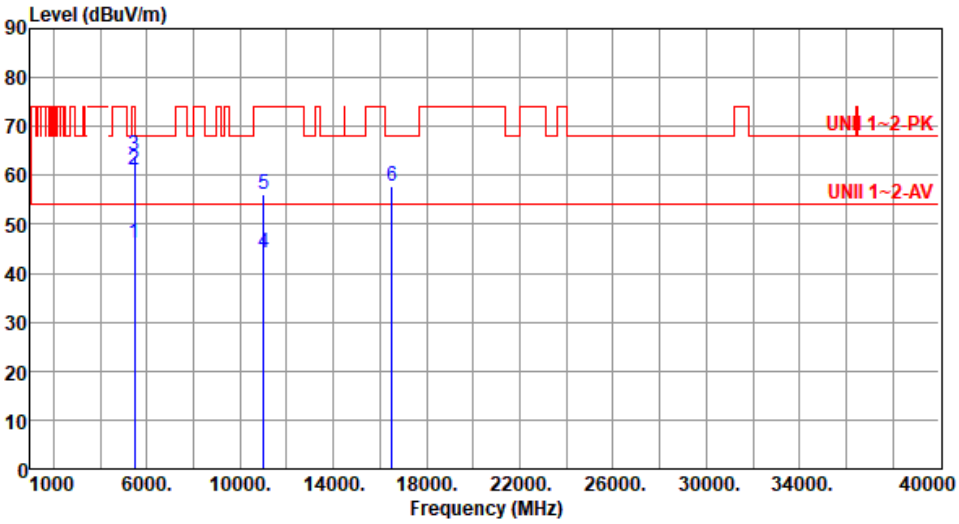


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	52.98	54.00	-1.02	48.56	4.42	Average	100	298
2	5350.00	69.59	74.00	-4.41	65.17	4.42	Peak	100	298
3	10640.00	44.14	54.00	-9.86	29.77	14.37	Average	100	194
4	10640.00	57.06	74.00	-16.94	42.69	14.37	Peak	100	194
5	15960.00	43.48	54.00	-10.52	29.80	13.68	Average	100	191
6	15960.00	56.44	74.00	-17.56	42.76	13.68	Peak	100	191

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	ax HE20	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

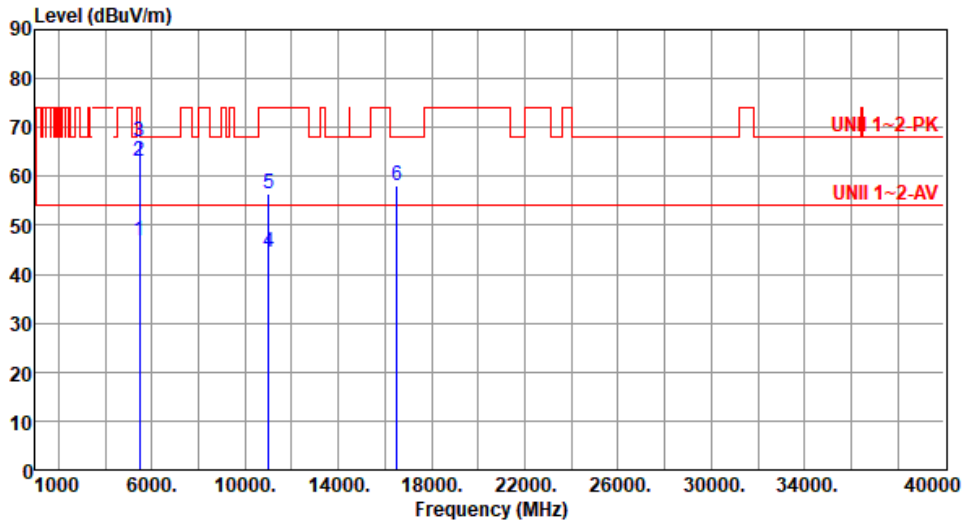


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.20	54.00	-7.80	41.53	4.67	Average	100	330
2	5460.00	61.26	74.00	-12.74	56.59	4.67	Peak	100	330
3	5470.00	63.95	68.20	-4.25	59.25	4.70	Peak	100	330
4	11000.00	44.05	54.00	-9.95	29.40	14.65	Average	100	57
5	11000.00	56.07	74.00	-17.93	41.42	14.65	Peak	100	57
6	16500.00	57.77	68.20	-10.43	41.43	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	ax HE20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

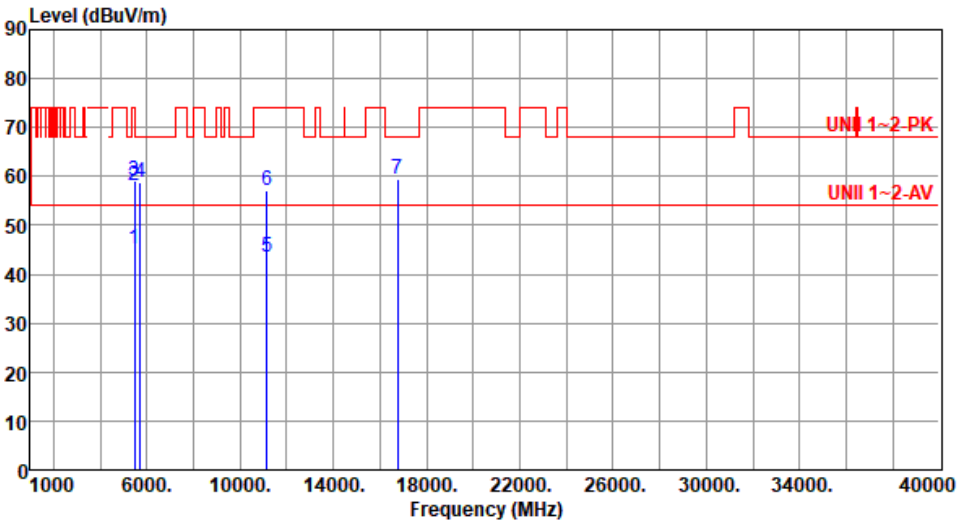


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.71	54.00	-7.29	42.04	4.67	Average	100	220
2	5460.00	62.94	74.00	-11.06	58.27	4.67	Peak	100	220
3	5470.00	67.13	68.20	-1.07	62.43	4.70	Peak	100	220
4	11000.00	44.37	54.00	-9.63	29.72	14.65	Average	100	193
5	11000.00	56.34	74.00	-17.66	41.69	14.65	Peak	100	193
6	16500.00	58.06	68.20	-10.14	41.72	16.34	Peak	100	199

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	ax HE20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

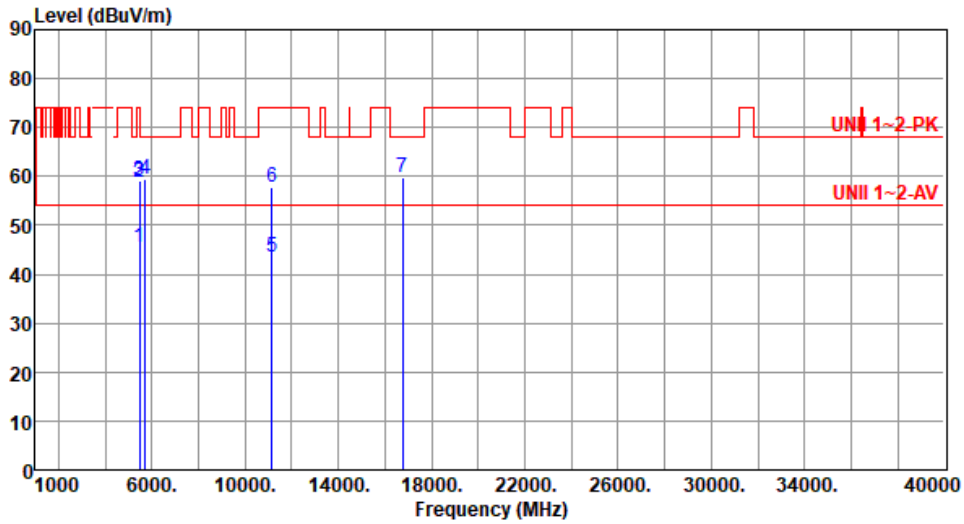


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.20	54.00	-8.80	40.53	4.67	Average	100	328
2	5460.00	58.26	74.00	-15.74	53.59	4.67	Peak	100	328
3	5470.00	58.99	68.20	-9.21	54.29	4.70	Peak	100	328
4	5725.00	58.86	68.20	-9.34	53.69	5.17	Peak	100	328
5	11160.00	43.47	54.00	-10.53	29.50	13.97	Average	100	49
6	11160.00	57.22	74.00	-16.78	43.25	13.97	Peak	100	49
7	16740.00	59.45	68.20	-8.75	42.28	17.17	Peak	100	63

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	ax HE20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

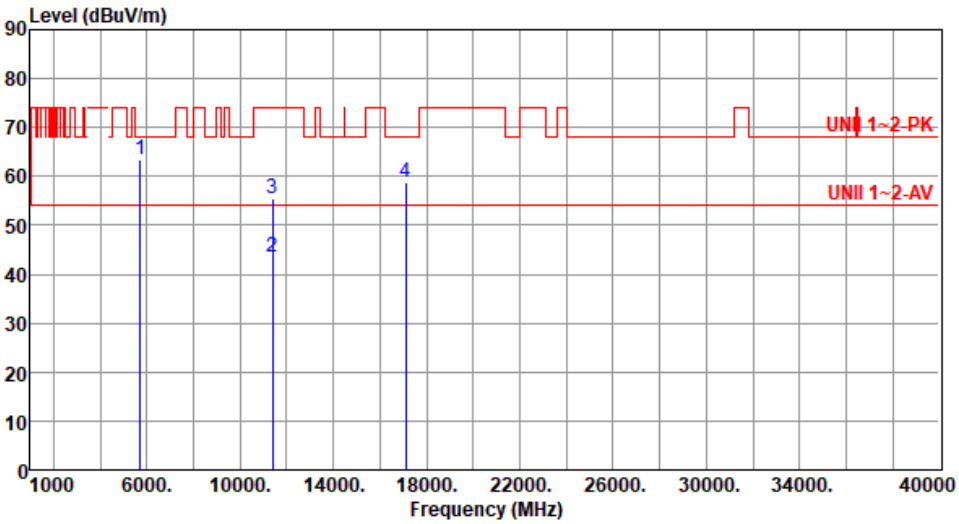


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.43	54.00	-8.57	40.76	4.67	Average	105	222
2	5460.00	58.70	74.00	-15.30	54.03	4.67	Peak	105	222
3	5470.00	59.25	68.20	-8.95	54.55	4.70	Peak	105	222
4	5725.00	59.49	68.20	-8.71	54.32	5.17	Peak	105	222
5	11160.00	43.62	54.00	-10.38	29.65	13.97	Average	100	211
6	11160.00	57.63	74.00	-16.37	43.66	13.97	Peak	100	211
7	16740.00	59.75	68.20	-8.45	42.58	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	ax HE20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

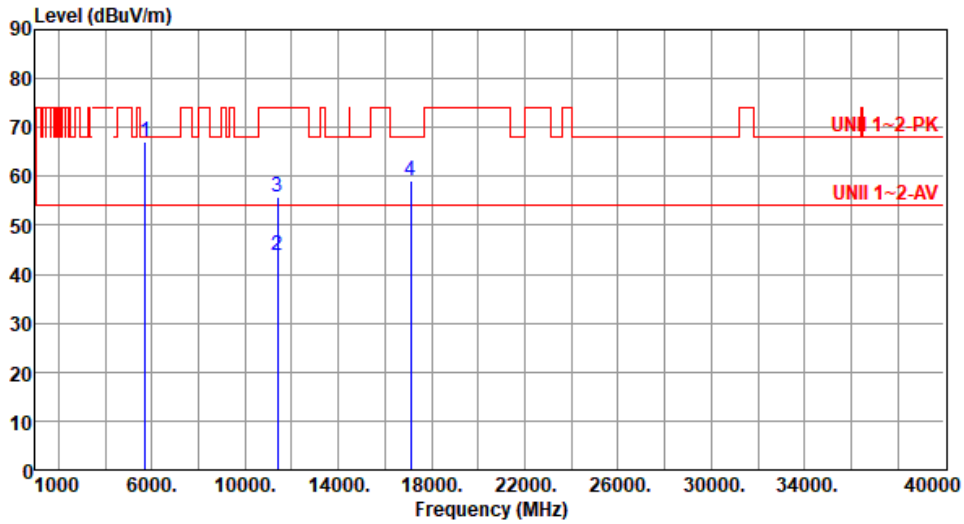


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	63.29	68.20	-4.91	58.12	5.17	Peak	100	337
2	11400.00	43.57	54.00	-10.43	29.43	14.14	Average	100	52
3	11400.00	55.60	74.00	-18.40	41.46	14.14	Peak	100	52
4	17100.00	58.75	68.20	-9.45	41.33	17.42	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	ax HE20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

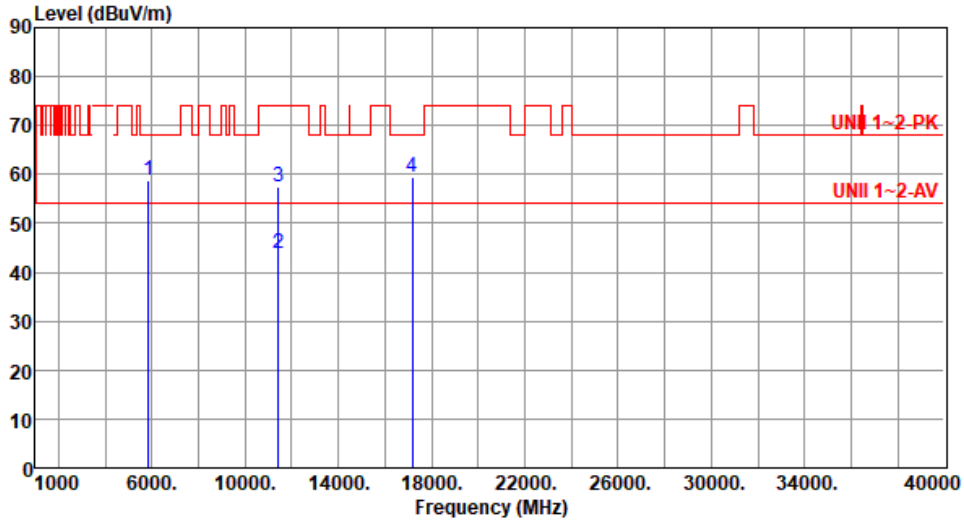


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.94	68.20	-1.26	61.77	5.17	Peak	114	219
2	11400.00	43.84	54.00	-10.16	29.70	14.14	Average	100	193
3	11400.00	55.83	74.00	-18.17	41.69	14.14	Peak	100	193
4	17100.00	59.14	68.20	-9.06	41.72	17.42	Peak	100	190

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	ax HE20	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

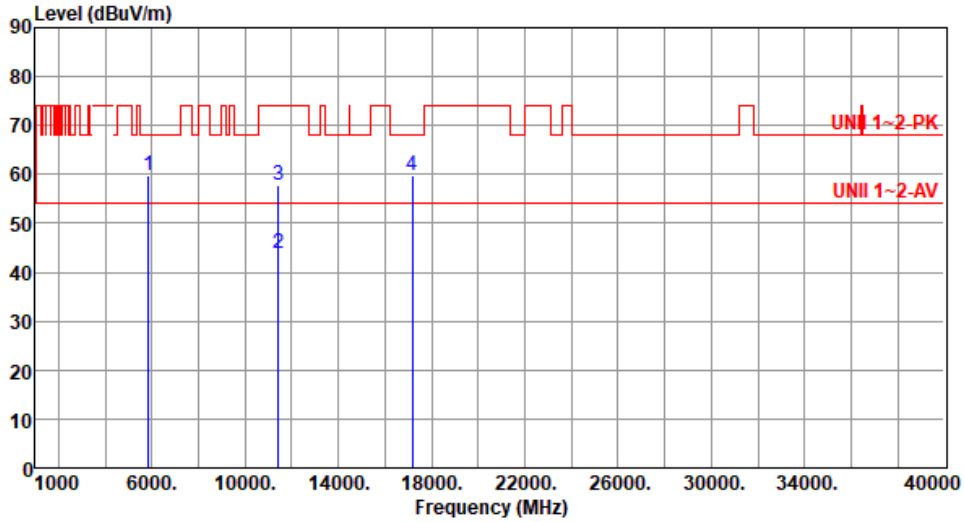


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.90	68.20	-9.30	53.25	5.65	Peak	100	335
2	11440.00	43.68	54.00	-10.32	29.42	14.26	Average	100	55
3	11440.00	57.51	74.00	-16.49	43.25	14.26	Peak	100	55
4	17160.00	59.49	68.20	-8.71	42.07	17.42	Peak	100	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	ax HE20	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

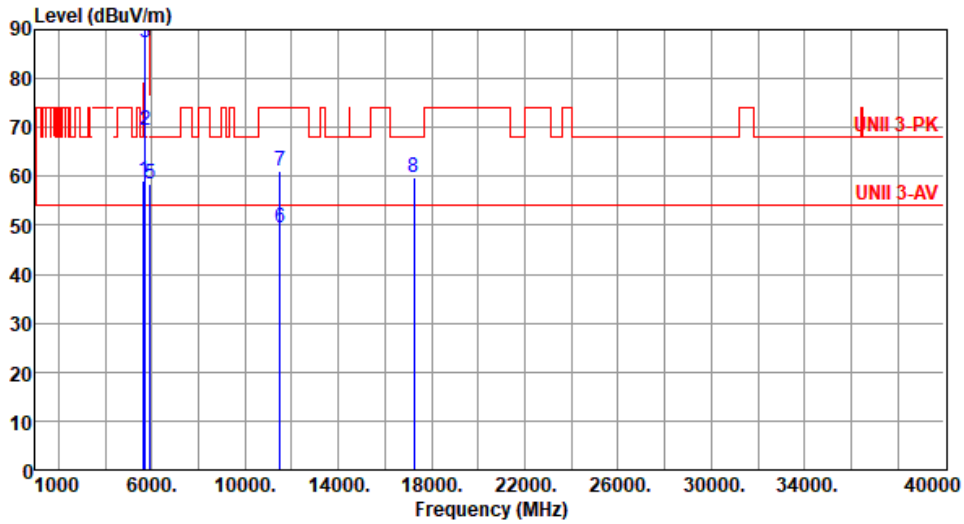


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.91	68.20	-8.29	54.26	5.65	Peak	102	221
2	11440.00	43.84	54.00	-10.16	29.58	14.26	Average	100	213
3	11440.00	57.70	74.00	-16.30	43.44	14.26	Peak	100	213
4	17160.00	59.68	68.20	-8.52	42.26	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	ax HE20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

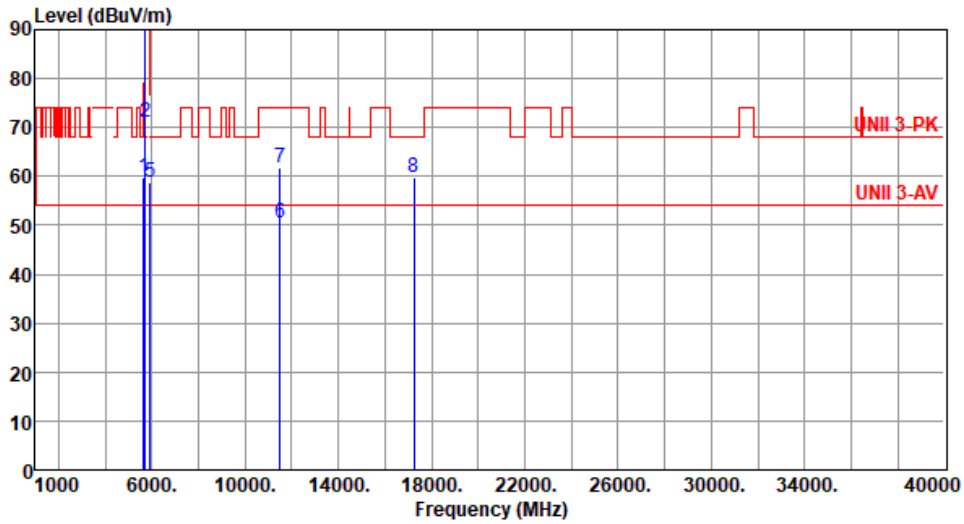


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.05	68.20	-9.15	54.24	4.81	Peak	100	345
2	5700.00	69.27	105.20	-35.93	64.25	5.02	Peak	100	345
3	5720.00	87.25	110.80	-23.55	82.11	5.14	Peak	100	345
4	5725.00	93.94	122.20	-28.26	88.77	5.17	Peak	100	345
5	5925.00	58.46	68.20	-9.74	52.85	5.61	Peak	100	345
6	11490.00	49.64	54.00	-4.36	35.25	14.39	Average	100	209
7	11490.00	61.24	74.00	-12.76	46.85	14.39	Peak	100	209
8	17235.00	59.68	68.20	-8.52	42.22	17.46	Peak	100	213

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	ax HE20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

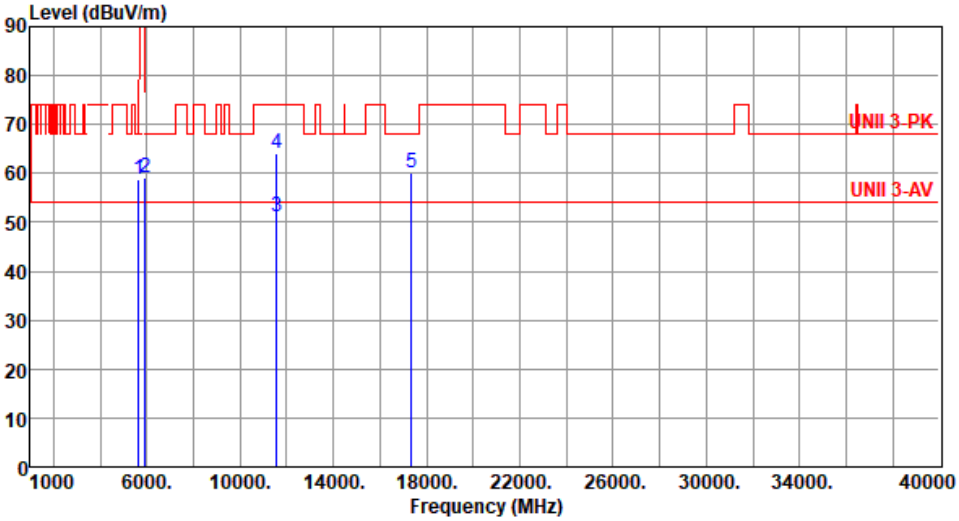


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.66	68.20	-8.54	54.85	4.81	Peak	100	219
2	5700.00	71.18	105.20	-34.02	66.16	5.02	Peak	100	219
3	5720.00	91.82	110.80	-18.98	86.68	5.14	Peak	100	219
4	5725.00	97.32	122.20	-24.88	92.15	5.17	Peak	100	219
5	5925.00	58.66	68.20	-9.54	53.05	5.61	Peak	100	219
6	11490.00	50.50	54.00	-3.50	36.11	14.39	Average	100	110
7	11490.00	61.74	74.00	-12.26	47.35	14.39	Peak	100	110
8	17235.00	59.78	68.20	-8.42	42.32	17.46	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	ax HE20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

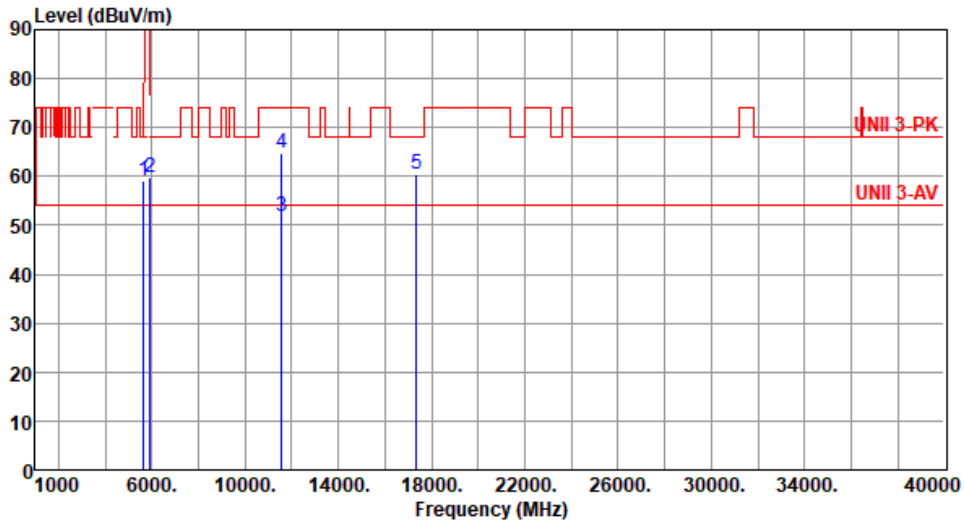


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.91	68.20	-9.29	54.10	4.81	Peak	100	337
2	5925.00	59.24	68.20	-8.96	53.63	5.61	Peak	100	337
3	11570.00	51.21	54.00	-2.79	36.96	14.25	Average	100	229
4	11570.00	64.13	74.00	-9.87	49.88	14.25	Peak	100	229
5	17355.00	60.20	68.20	-8.00	42.29	17.91	Peak	100	219

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	ax HE20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

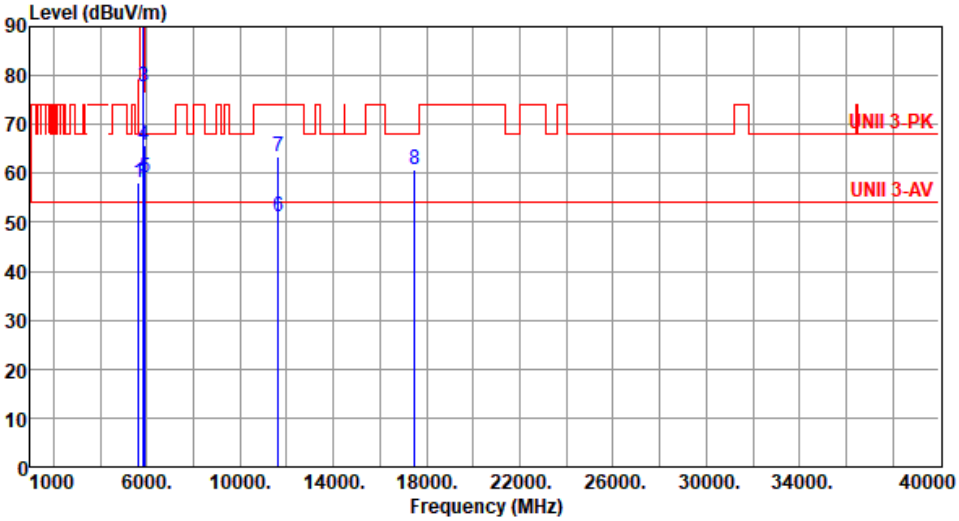


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.06	68.20	-9.14	54.25	4.81	Peak	100	220
2	5925.00	59.72	68.20	-8.48	54.11	5.61	Peak	100	220
3	11570.00	51.70	54.00	-2.30	37.45	14.25	Average	100	116
4	11570.00	64.81	74.00	-9.19	50.56	14.25	Peak	100	116
5	17355.00	60.34	68.20	-7.86	42.43	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	ax HE20	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

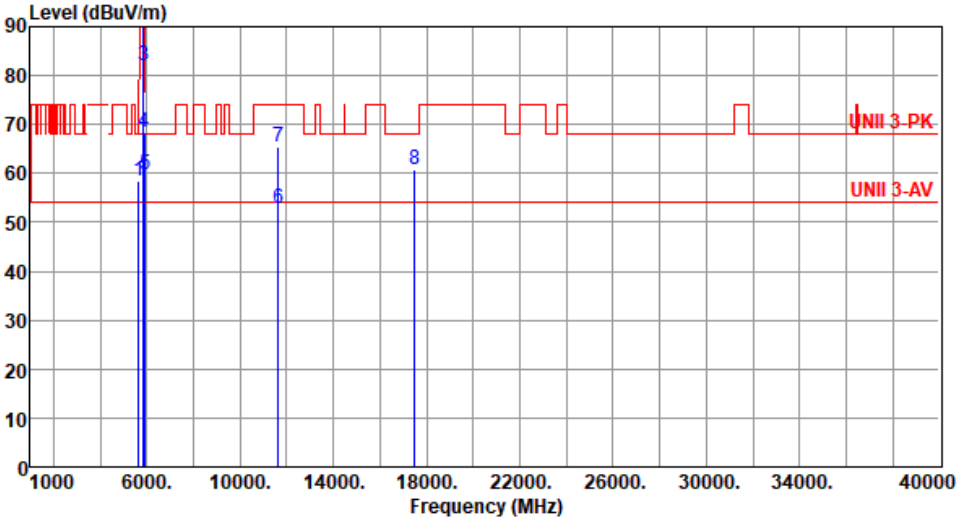


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.05	68.20	-10.15	53.24	4.81	Peak	100	321
2	5850.00	90.65	122.20	-31.55	85.00	5.65	Peak	100	321
3	5855.00	77.76	110.80	-33.04	72.11	5.65	Peak	100	321
4	5875.00	65.61	105.20	-39.59	59.95	5.66	Peak	100	321
5	5925.00	59.27	68.20	-8.93	53.66	5.61	Peak	100	321
6	11650.00	51.01	54.00	-2.99	37.11	13.90	Average	100	226
7	11650.00	63.55	74.00	-10.45	49.65	13.90	Peak	100	226
8	17475.00	60.65	68.20	-7.55	42.10	18.55	Peak	100	50

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

Modulation	ax HE20	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65



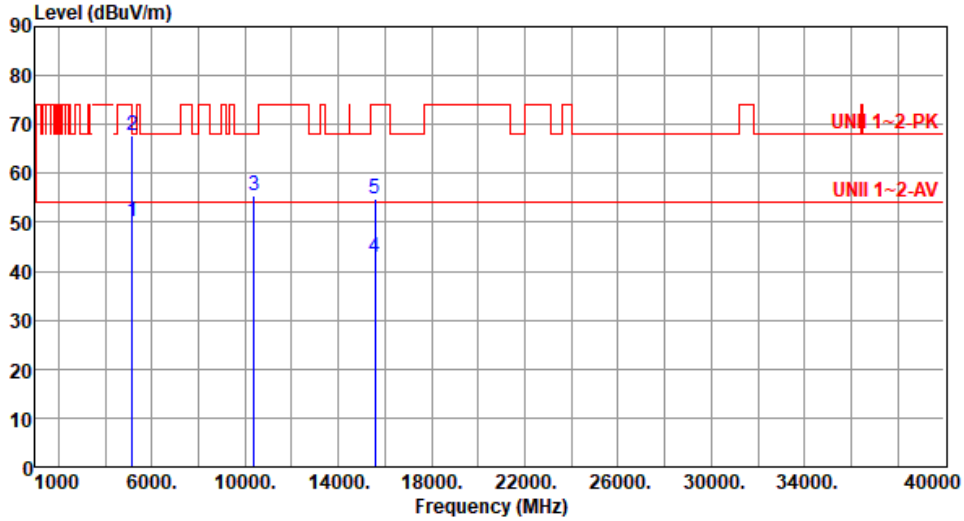
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.39	68.20	-9.81	53.58	4.81	Peak	100	219
2	5850.00	93.72	122.20	-28.48	88.07	5.65	Peak	100	219
3	5855.00	82.07	110.80	-28.73	76.42	5.65	Peak	100	219
4	5875.00	68.36	105.20	-36.84	62.70	5.66	Peak	100	219
5	5925.00	59.76	68.20	-8.44	54.15	5.61	Peak	100	219
6	11650.00	52.65	54.00	-1.35	38.75	13.90	Average	100	109
7	11650.00	65.43	74.00	-8.57	51.53	13.90	Peak	100	109
8	17475.00	60.83	68.20	-7.37	42.28	18.55	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).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5190
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

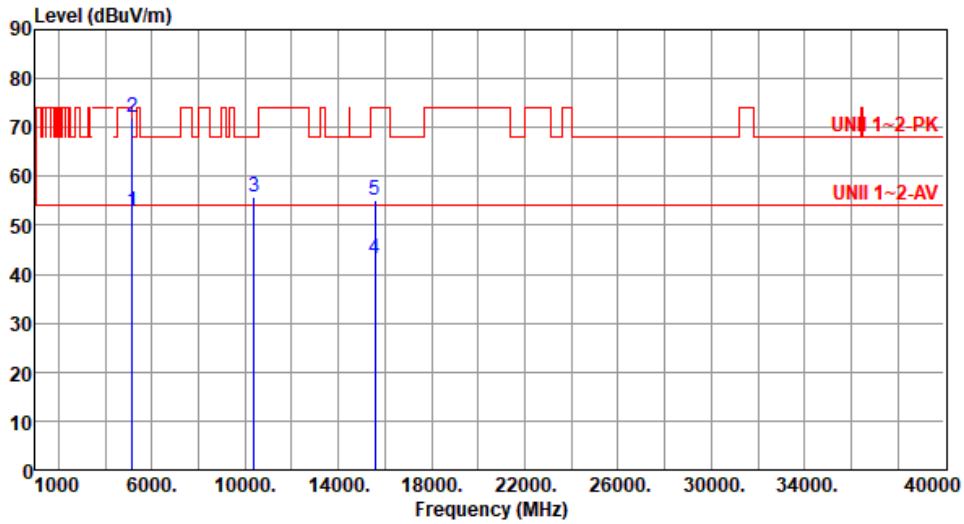


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.17	54.00	-3.83	45.16	5.01	Average	100	335
2	5150.00	67.90	74.00	-6.10	62.89	5.01	Peak	100	335
3	10380.00	55.60	68.20	-12.60	41.33	14.27	Peak	100	57
4	15570.00	42.89	54.00	-11.11	29.41	13.48	Average	100	59
5	15570.00	54.85	74.00	-19.15	41.37	13.48	Peak	100	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	ax HE40	Test Freq. (MHz)	5190
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

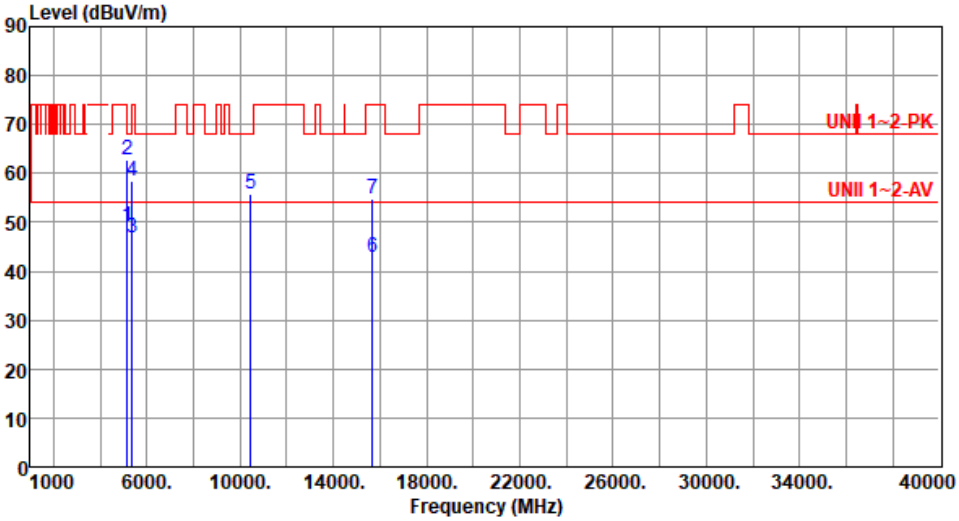


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.95	54.00	-1.05	47.94	5.01	Average	100	300
2	5150.00	71.97	74.00	-2.03	66.96	5.01	Peak	100	300
3	10380.00	55.93	68.20	-12.27	41.66	14.27	Peak	100	194
4	15570.00	43.08	54.00	-10.92	29.60	13.48	Average	100	191
5	15570.00	55.14	74.00	-18.86	41.66	13.48	Peak	100	191

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	ax HE40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

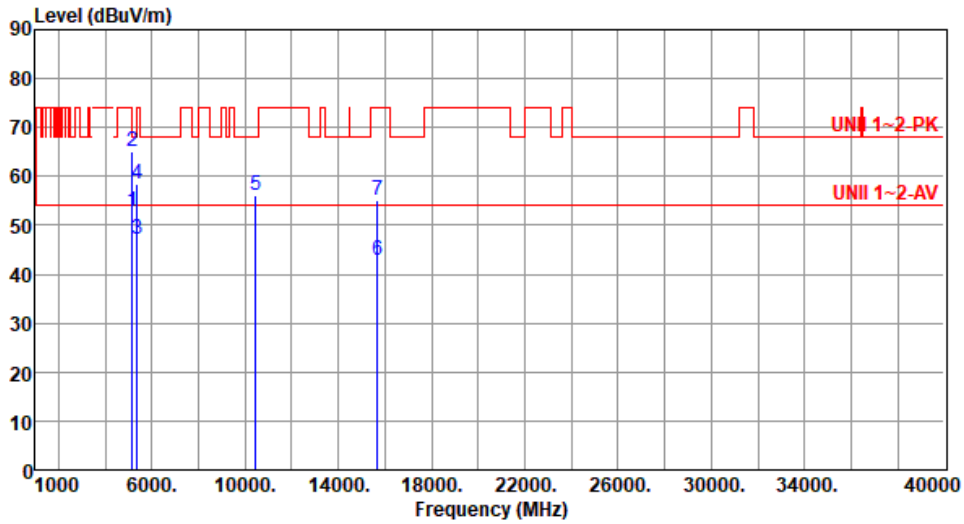


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.23	54.00	-4.77	44.22	5.01	Average	100	343
2	5150.00	62.90	74.00	-11.10	57.89	5.01	Peak	100	343
3	5350.00	46.67	54.00	-7.33	42.25	4.42	Average	100	343
4	5350.00	58.38	74.00	-15.62	53.96	4.42	Peak	100	343
5	10460.00	55.75	68.20	-12.45	41.32	14.43	Peak	100	48
6	15690.00	42.76	54.00	-11.24	29.36	13.40	Average	100	53
7	15690.00	54.75	74.00	-19.25	41.35	13.40	Peak	100	53

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	ax HE40	Test Freq. (MHz)	5230
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

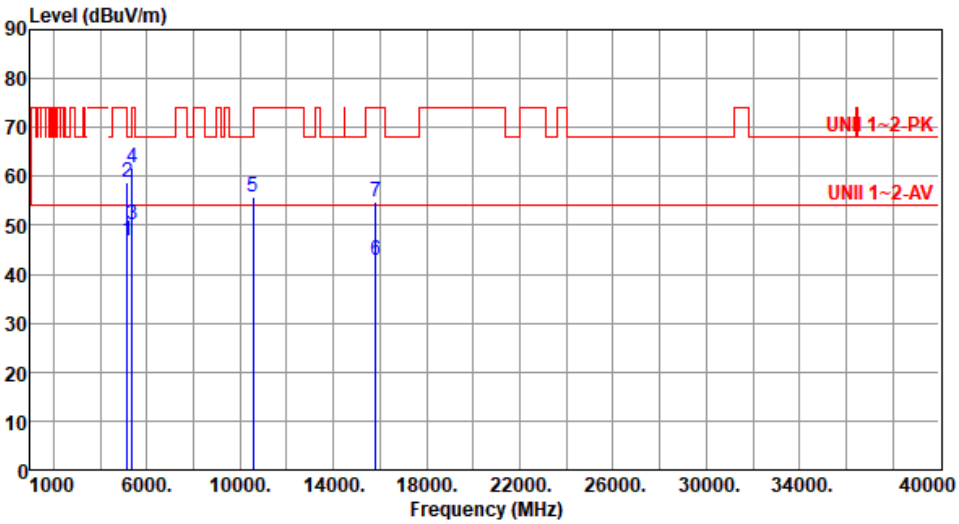


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.87	54.00	-1.13	47.86	5.01	Average	100	296
2	5150.00	65.14	74.00	-8.86	60.13	5.01	Peak	100	296
3	5350.00	47.16	54.00	-6.84	42.74	4.42	Average	100	296
4	5350.00	58.53	74.00	-15.47	54.11	4.42	Peak	100	296
5	10460.00	56.11	68.20	-12.09	41.68	14.43	Peak	100	194
6	15690.00	42.96	54.00	-11.04	29.56	13.40	Average	100	188
7	15690.00	55.03	74.00	-18.97	41.63	13.40	Peak	100	188

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	ax HE40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

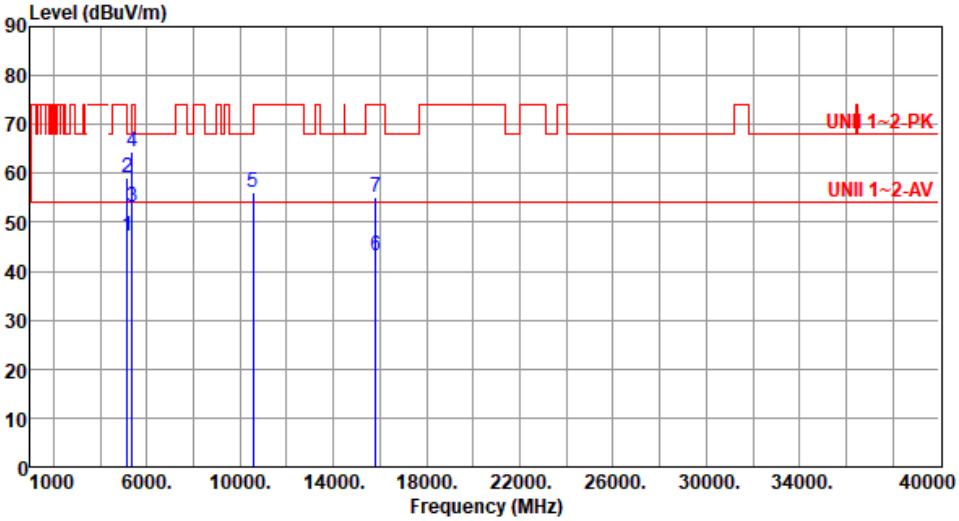


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.90	54.00	-7.10	41.89	5.01	Average	100	332
2	5150.00	58.87	74.00	-15.13	53.86	5.01	Peak	100	332
3	5350.00	50.12	54.00	-3.88	45.70	4.42	Average	100	332
4	5350.00	61.67	74.00	-12.33	57.25	4.42	Peak	100	332
5	10540.00	55.79	68.20	-12.41	41.35	14.44	Peak	100	43
6	15810.00	42.92	54.00	-11.08	29.42	13.50	Average	100	41
7	15810.00	54.89	74.00	-19.11	41.39	13.50	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	ax HE40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

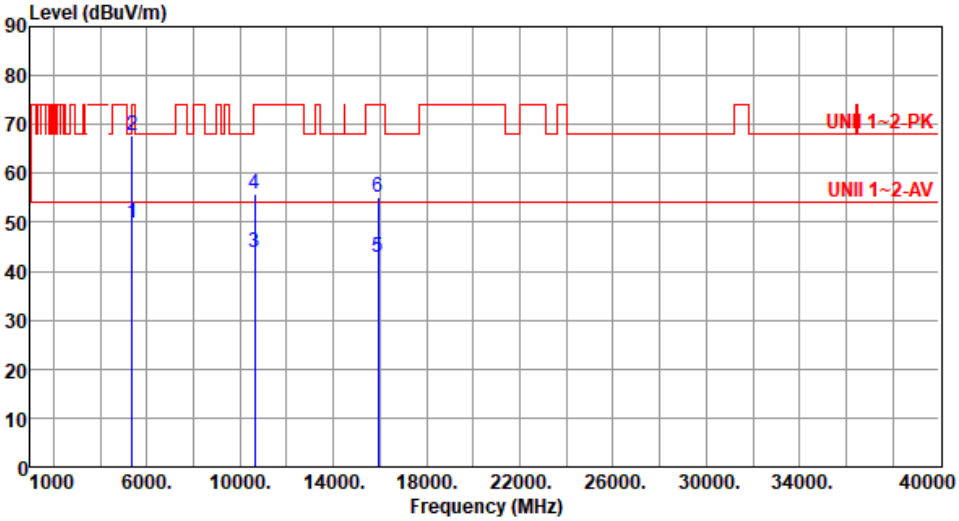


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.06	54.00	-6.94	42.05	5.01	Average	100	294
2	5150.00	59.28	74.00	-14.72	54.27	5.01	Peak	100	294
3	5350.00	52.98	54.00	-1.02	48.56	4.42	Average	100	294
4	5350.00	64.53	74.00	-9.47	60.11	4.42	Peak	100	294
5	10540.00	56.03	68.20	-12.17	41.59	14.44	Peak	100	195
6	15810.00	43.13	54.00	-10.87	29.63	13.50	Average	100	186
7	15810.00	55.13	74.00	-18.87	41.63	13.50	Peak	100	186

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	ax HE40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

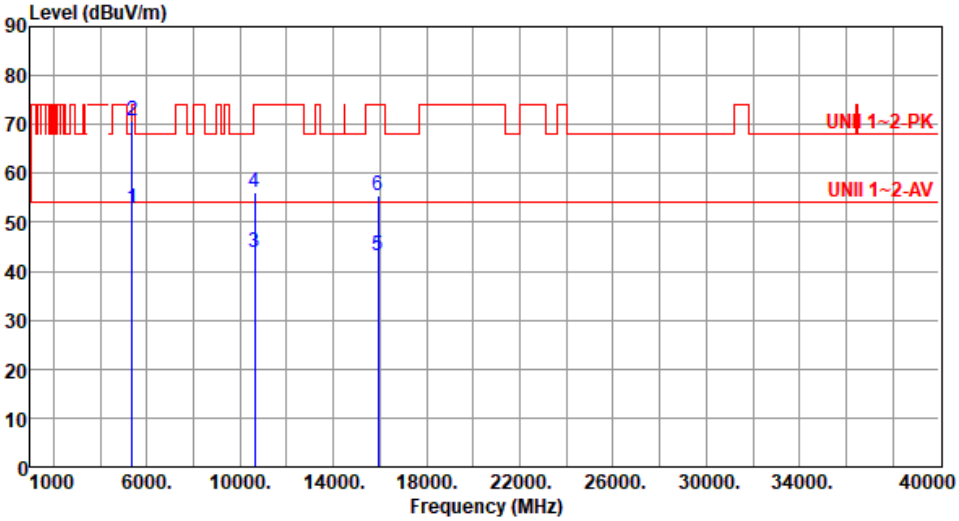


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	49.67	54.00	-4.33	45.25	4.42	Average	100	341
2	5350.00	67.63	74.00	-6.37	63.21	4.42	Peak	100	341
3	10620.00	43.68	54.00	-10.32	29.32	14.36	Average	100	54
4	10620.00	55.78	74.00	-18.22	41.42	14.36	Peak	100	54
5	15930.00	42.96	54.00	-11.04	29.33	13.63	Average	100	55
6	15930.00	54.98	74.00	-19.02	41.35	13.63	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	ax HE40	Test Freq. (MHz)	5310
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

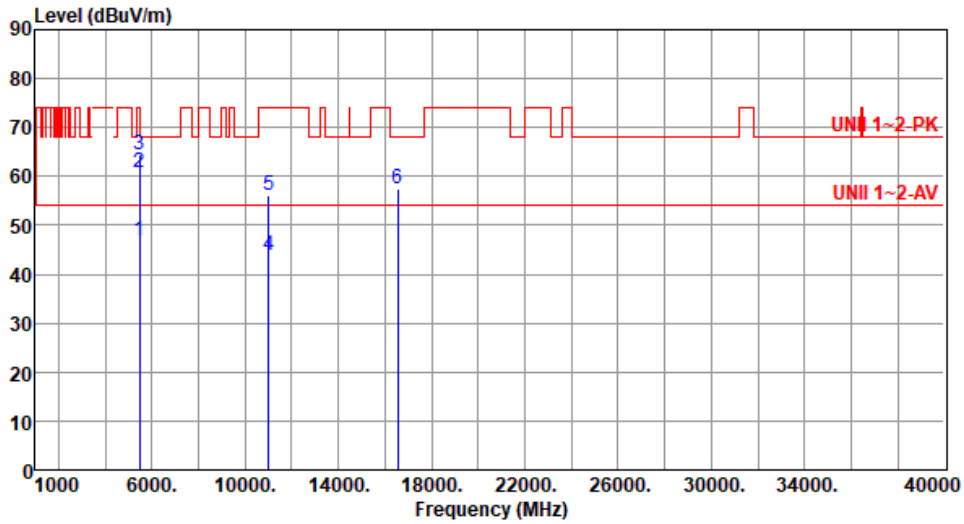


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	52.97	54.00	-1.03	48.55	4.42	Average	100	297
2	5350.00	70.64	74.00	-3.36	66.22	4.42	Peak	100	297
3	10620.00	43.94	54.00	-10.06	29.58	14.36	Average	100	192
4	10620.00	56.06	74.00	-17.94	41.70	14.36	Peak	100	192
5	15930.00	43.28	54.00	-10.72	29.65	13.63	Average	100	190
6	15930.00	55.30	74.00	-18.70	41.67	13.63	Peak	100	190

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	ax HE40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

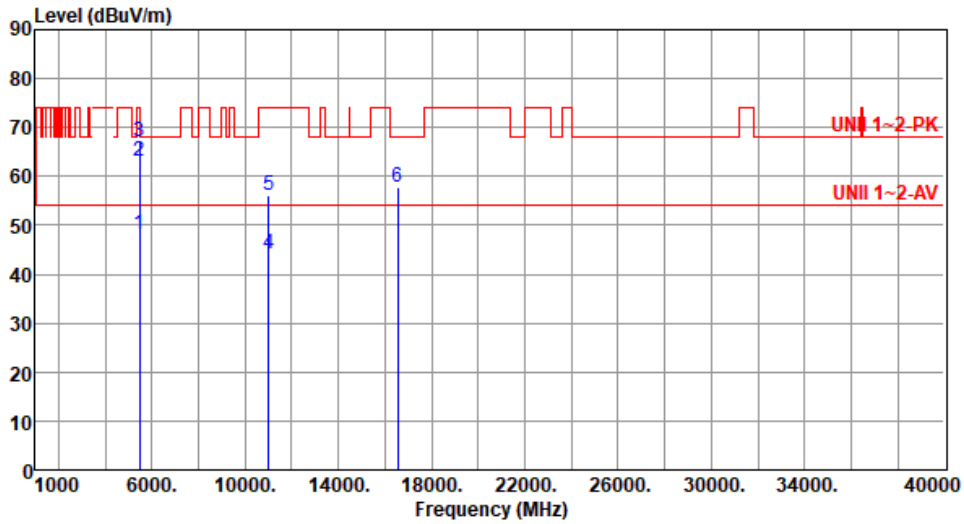


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.89	54.00	-7.11	42.22	4.67	Average	100	330
2	5460.00	60.63	74.00	-13.37	55.96	4.67	Peak	100	330
3	5470.00	64.55	68.20	-3.65	59.85	4.70	Peak	100	330
4	11020.00	43.91	54.00	-10.09	29.35	14.56	Average	100	45
5	11020.00	55.99	74.00	-18.01	41.43	14.56	Peak	100	45
6	16530.00	57.62	68.20	-10.58	41.38	16.24	Peak	100	52

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	ax HE40	Test Freq. (MHz)	5510
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

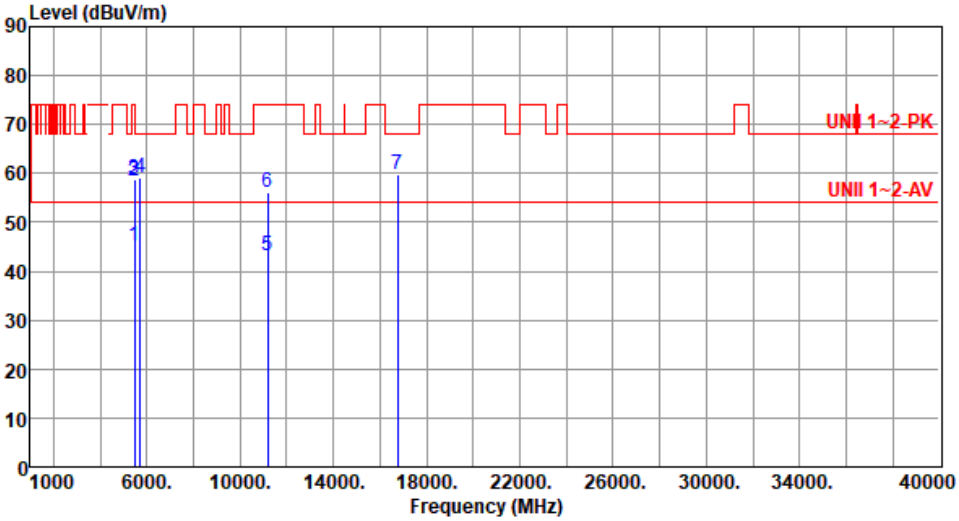


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	48.01	54.00	-5.99	43.34	4.67	Average	100	219
2	5460.00	62.94	74.00	-11.06	58.27	4.67	Peak	100	219
3	5470.00	66.96	68.20	-1.24	62.26	4.70	Peak	100	219
4	11020.00	44.24	54.00	-9.76	29.68	14.56	Average	100	194
5	11020.00	56.28	74.00	-17.72	41.72	14.56	Peak	100	194
6	16530.00	57.93	68.20	-10.27	41.69	16.24	Peak	100	198

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	ax HE40	Test Freq. (MHz)	5590
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

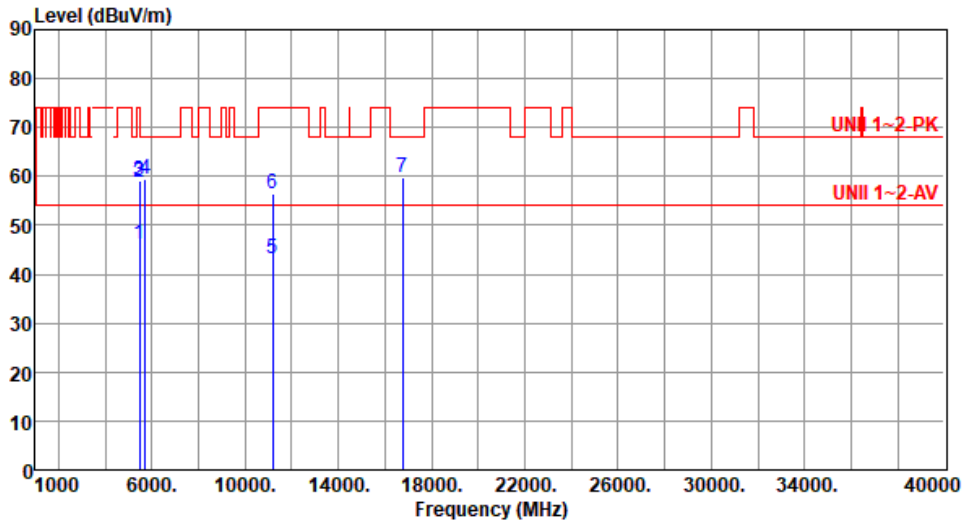


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.10	54.00	-8.90	40.43	4.67	Average	100	326
2	5460.00	58.34	74.00	-15.66	53.67	4.67	Peak	100	326
3	5470.00	58.66	68.20	-9.54	53.96	4.70	Peak	100	326
4	5725.00	59.13	68.20	-9.07	53.96	5.17	Peak	100	326
5	11180.00	43.16	54.00	-10.84	29.28	13.88	Average	100	54
6	11180.00	56.16	74.00	-17.84	42.28	13.88	Peak	100	54
7	16770.00	59.67	68.20	-8.53	42.32	17.35	Peak	100	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	ax HE40	Test Freq. (MHz)	5590
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

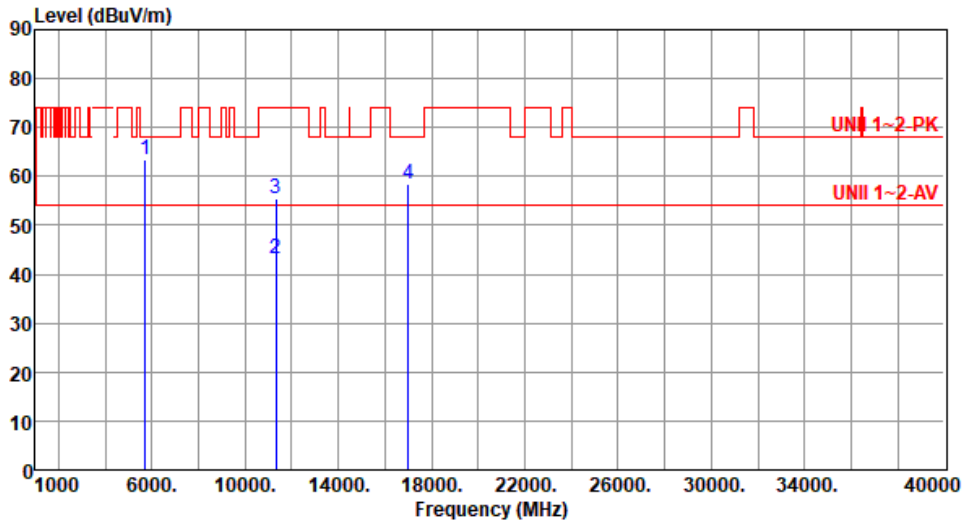


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.24	54.00	-7.76	41.57	4.67	Average	100	222
2	5460.00	58.70	74.00	-15.30	54.03	4.67	Peak	100	222
3	5470.00	59.27	68.20	-8.93	54.57	4.70	Peak	100	222
4	5725.00	59.50	68.20	-8.70	54.33	5.17	Peak	100	222
5	11180.00	43.33	54.00	-10.67	29.45	13.88	Average	100	60
6	11180.00	56.46	74.00	-17.54	42.58	13.88	Peak	100	60
7	16770.00	59.79	68.20	-8.41	42.44	17.35	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	ax HE40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

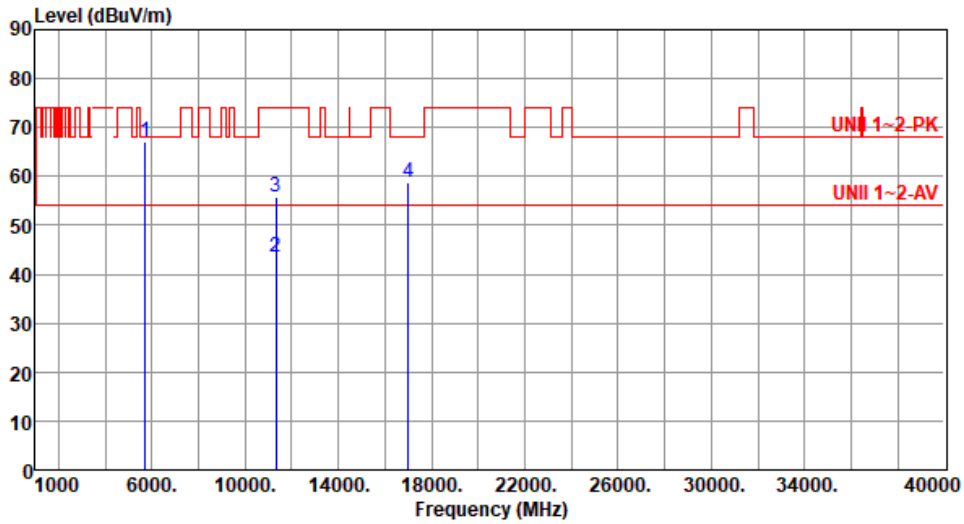


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	63.31	68.20	-4.89	58.14	5.17	Peak	100	328
2	11340.00	43.33	54.00	-10.67	29.35	13.98	Average	100	51
3	11340.00	55.33	74.00	-18.67	41.35	13.98	Peak	100	51
4	17010.00	58.56	68.20	-9.64	41.31	17.25	Peak	100	58

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	ax HE40	Test Freq. (MHz)	5670
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

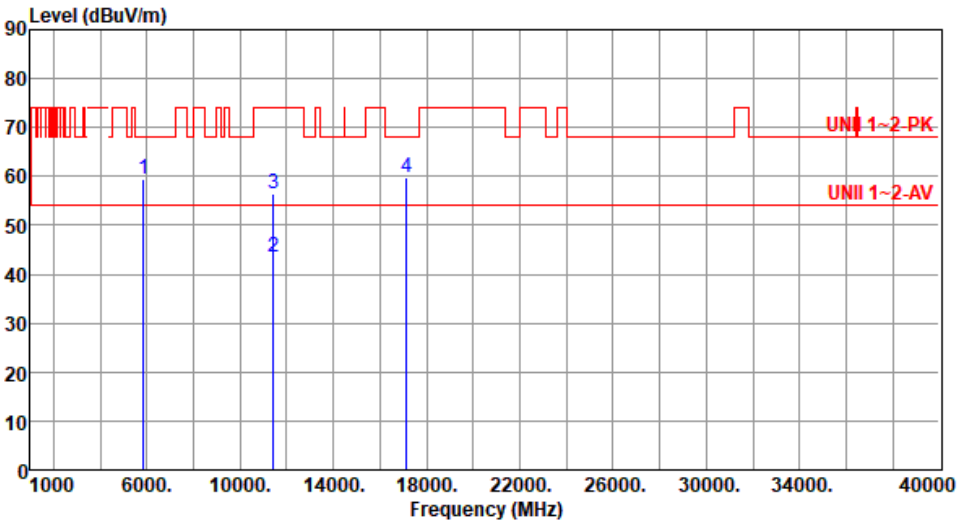


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	67.03	68.20	-1.17	61.86	5.17	Peak	100	220
2	11340.00	43.48	54.00	-10.52	29.50	13.98	Average	100	193
3	11340.00	55.83	74.00	-18.17	41.85	13.98	Peak	100	193
4	17010.00	58.90	68.20	-9.30	41.65	17.25	Peak	100	186

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	ax HE40	Test Freq. (MHz)	5710
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

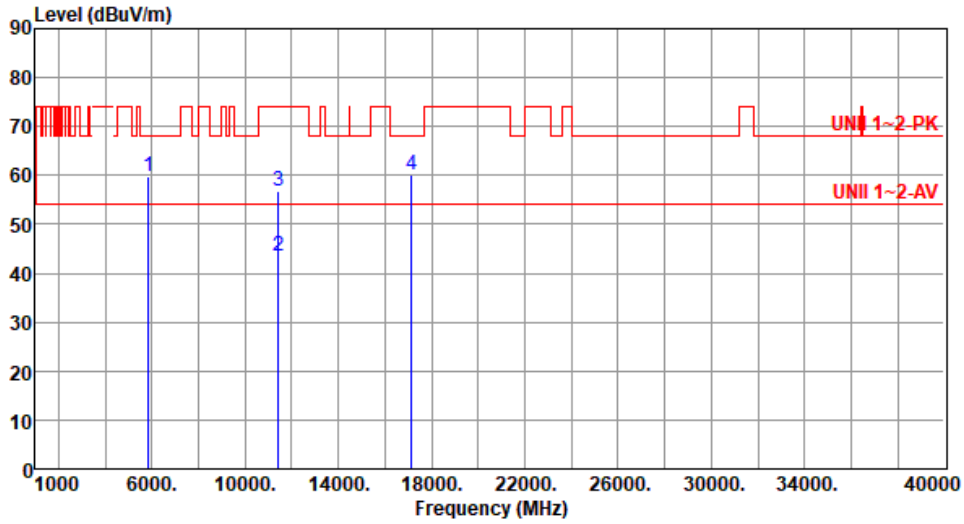


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.34	68.20	-8.86	53.69	5.65	Peak	100	333
2	11420.00	43.35	54.00	-10.65	29.15	14.20	Average	100	43
3	11420.00	56.45	74.00	-17.55	42.25	14.20	Peak	100	43
4	17130.00	59.76	68.20	-8.44	42.33	17.43	Peak	100	54

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	ax HE40	Test Freq. (MHz)	5710
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

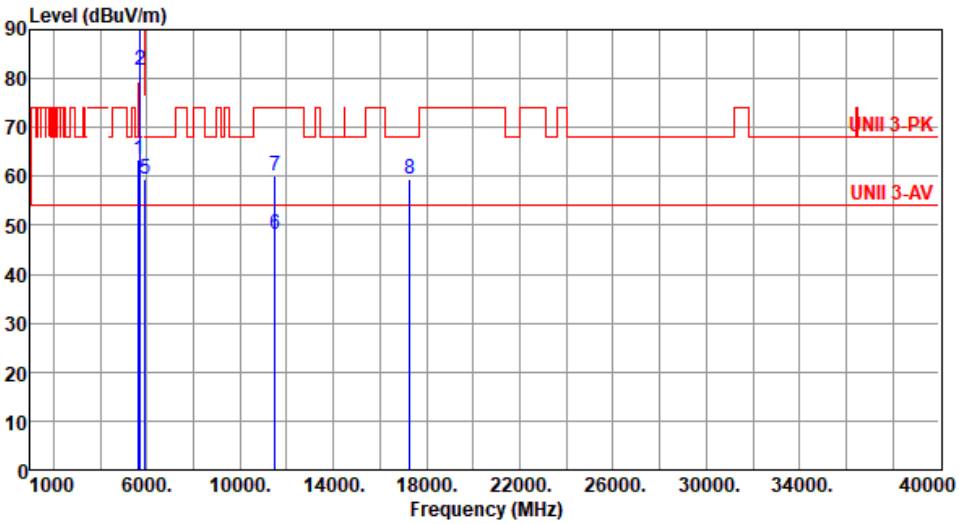


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.87	68.20	-8.33	54.22	5.65	Peak	100	223
2	11420.00	43.45	54.00	-10.55	29.25	14.20	Average	100	50
3	11420.00	56.66	74.00	-17.34	42.46	14.20	Peak	100	50
4	17130.00	60.02	68.20	-8.18	42.59	17.43	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	ax HE40	Test Freq. (MHz)	5755
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

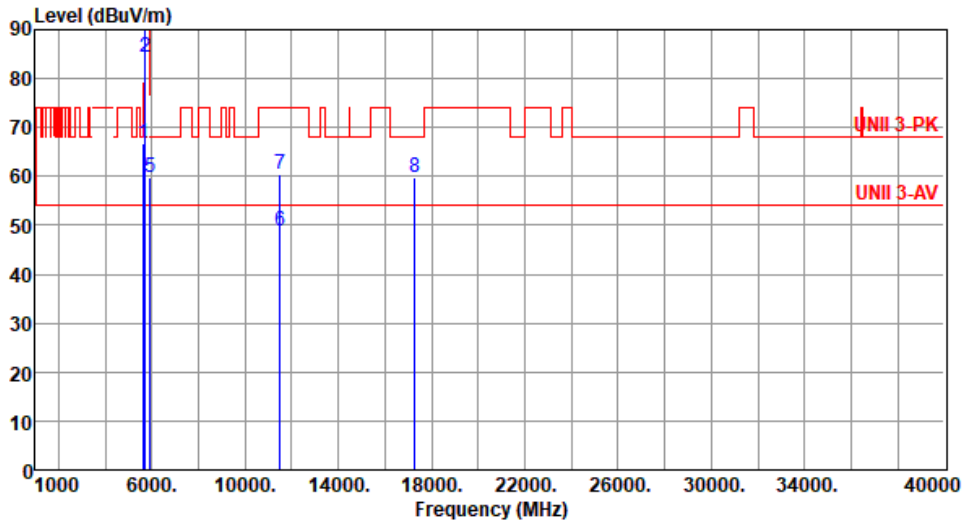


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	63.35	68.20	-4.85	58.54	4.81	Peak	100	328
2	5700.00	81.56	105.20	-23.64	76.54	5.02	Peak	100	328
3	5720.00	91.39	110.80	-19.41	86.25	5.14	Peak	100	328
4	5725.00	94.43	122.20	-27.77	89.26	5.17	Peak	100	328
5	5925.00	59.36	68.20	-8.84	53.75	5.61	Peak	100	328
6	11510.00	48.06	54.00	-5.94	33.66	14.40	Average	100	225
7	11510.00	60.25	74.00	-13.75	45.85	14.40	Peak	100	225
8	17265.00	59.55	68.20	-8.65	42.05	17.50	Peak	100	223

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	ax HE40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

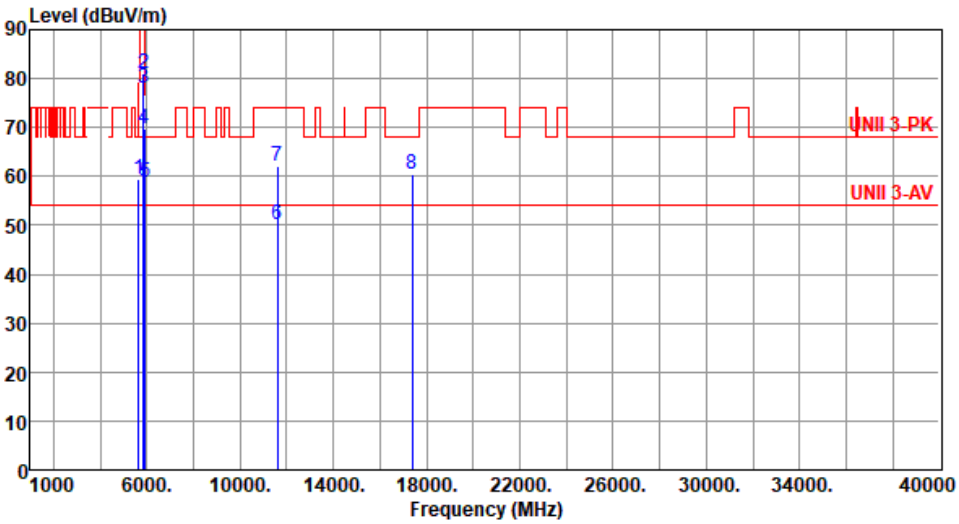


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	66.74	68.20	-1.46	61.93	4.81	Peak	100	215
2	5700.00	84.43	105.20	-20.77	79.41	5.02	Peak	100	215
3	5720.00	94.70	110.80	-16.10	89.56	5.14	Peak	100	215
4	5725.00	97.55	122.20	-24.65	92.38	5.17	Peak	100	215
5	5925.00	59.72	68.20	-8.48	54.11	5.61	Peak	100	215
6	11510.00	48.84	54.00	-5.16	34.44	14.40	Average	100	109
7	11510.00	60.46	74.00	-13.54	46.06	14.40	Peak	100	109
8	17265.00	59.71	68.20	-8.49	42.21	17.50	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	ax HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

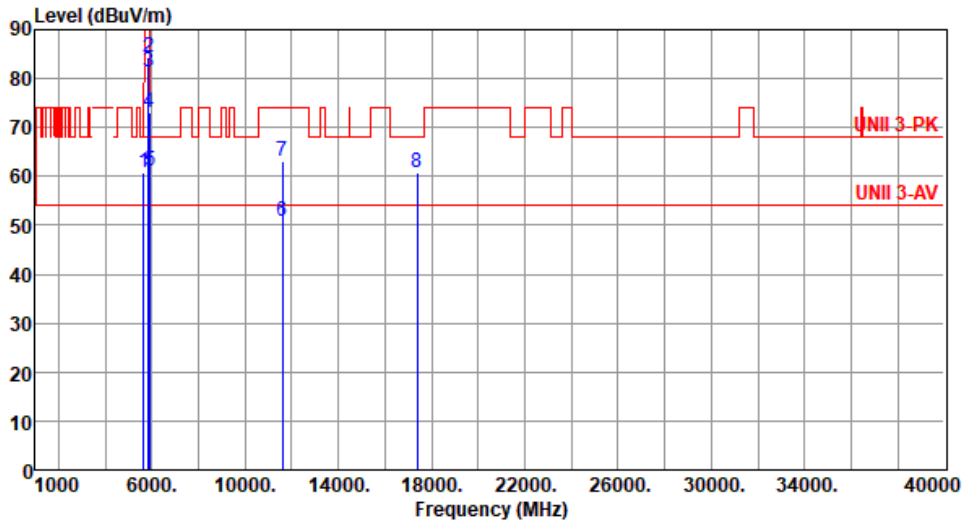


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.35	68.20	-8.85	54.54	4.81	Peak	100	324
2	5850.00	80.90	122.20	-41.30	75.25	5.65	Peak	100	324
3	5855.00	78.06	110.80	-32.74	72.41	5.65	Peak	100	324
4	5875.00	69.90	105.20	-35.30	64.24	5.66	Peak	100	324
5	5925.00	58.86	68.20	-9.34	53.25	5.61	Peak	100	324
6	11590.00	50.08	54.00	-3.92	35.89	14.19	Average	100	224
7	11590.00	61.98	74.00	-12.02	47.79	14.19	Peak	100	224
8	17385.00	60.58	68.20	-7.62	42.45	18.13	Peak	100	230

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	ax HE40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65



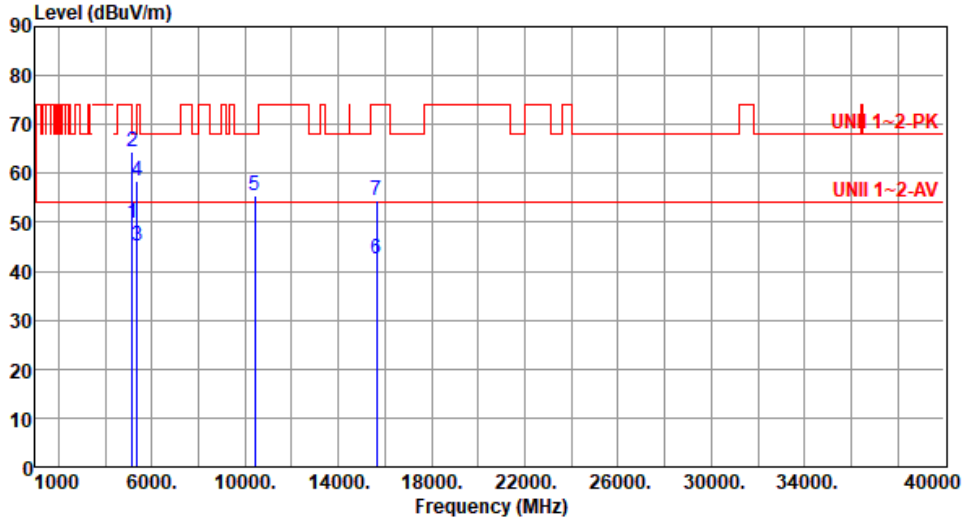
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.89	68.20	-7.31	56.08	4.81	Peak	100	220
2	5850.00	84.44	122.20	-37.76	78.79	5.65	Peak	100	220
3	5855.00	81.20	110.80	-29.60	75.55	5.65	Peak	100	220
4	5875.00	73.18	105.20	-32.02	67.52	5.66	Peak	100	220
5	5925.00	61.17	68.20	-7.03	55.56	5.61	Peak	100	220
6	11590.00	50.90	54.00	-3.10	36.71	14.19	Average	100	108
7	11590.00	63.07	74.00	-10.93	48.88	14.19	Peak	100	108
8	17385.00	60.69	68.20	-7.51	42.56	18.13	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).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

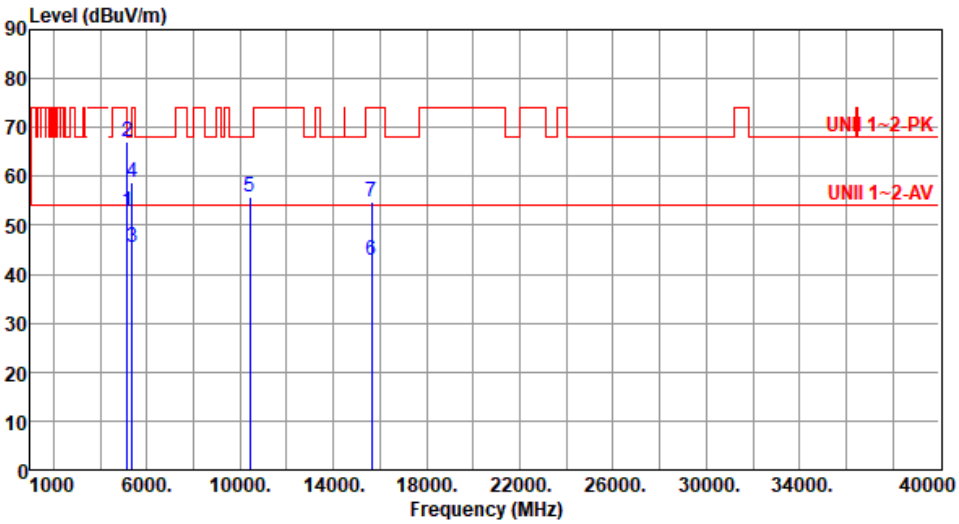


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.88	54.00	-4.12	44.87	5.01	Average	100	355
2	5150.00	64.58	74.00	-9.42	59.57	5.01	Peak	100	355
3	5350.00	45.10	54.00	-8.90	40.68	4.42	Average	100	355
4	5350.00	58.29	74.00	-15.71	53.87	4.42	Peak	100	355
5	10420.00	55.61	68.20	-12.59	41.25	14.36	Peak	100	54
6	15630.00	42.55	54.00	-11.45	29.20	13.35	Average	100	45
7	15630.00	54.53	74.00	-19.47	41.18	13.35	Peak	100	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	ax HE80	Test Freq. (MHz)	5210
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

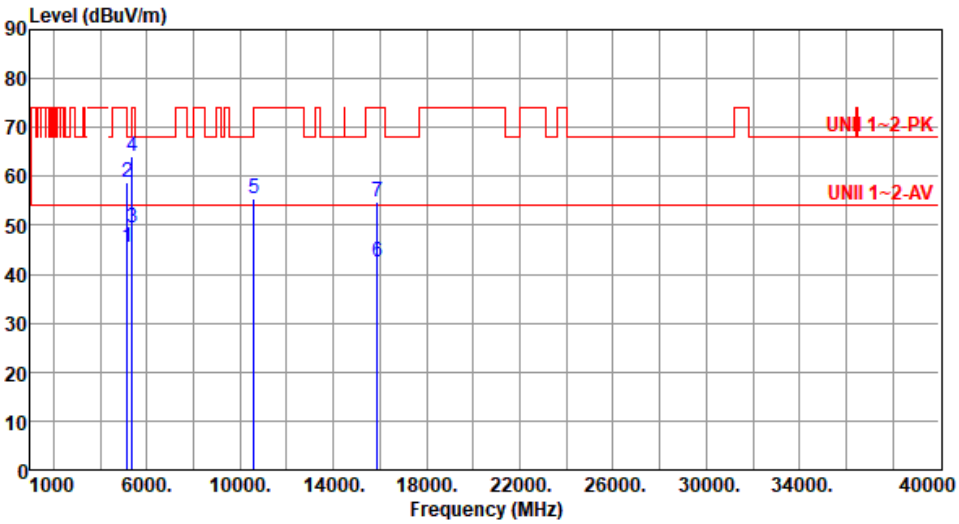


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.88	54.00	-1.12	47.87	5.01	Average	100	292
2	5150.00	66.95	74.00	-7.05	61.94	5.01	Peak	100	292
3	5350.00	45.64	54.00	-8.36	41.22	4.42	Average	100	292
4	5350.00	58.68	74.00	-15.32	54.26	4.42	Peak	100	292
5	10420.00	55.72	68.20	-12.48	41.36	14.36	Peak	100	195
6	15630.00	42.77	54.00	-11.23	29.42	13.35	Average	100	196
7	15630.00	54.78	74.00	-19.22	41.43	13.35	Peak	100	196

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	ax HE80	Test Freq. (MHz)	5290
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

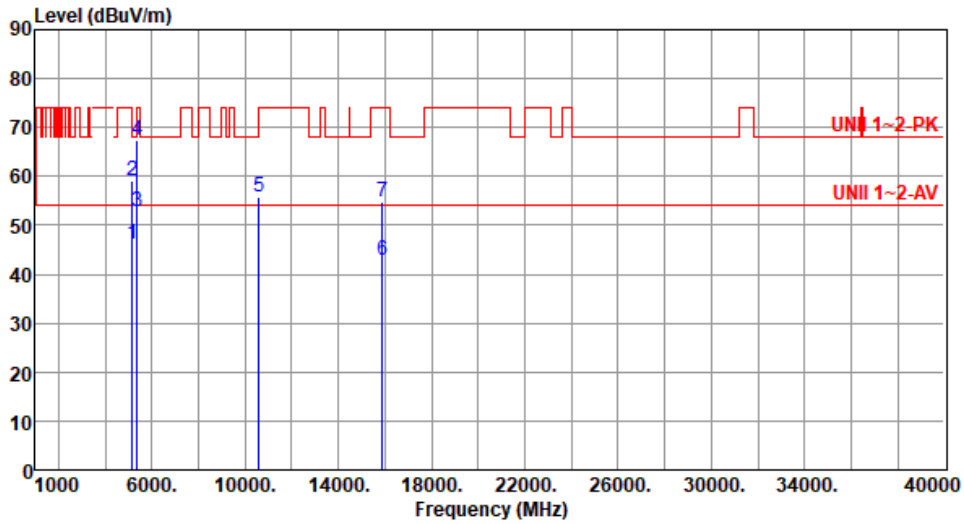


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.58	54.00	-8.42	40.57	5.01	Average	100	356
2	5150.00	58.69	74.00	-15.31	53.68	5.01	Peak	100	356
3	5350.00	49.63	54.00	-4.37	45.21	4.42	Average	100	356
4	5350.00	63.97	74.00	-10.03	59.55	4.42	Peak	100	356
5	10580.00	55.53	68.20	-12.67	41.15	14.38	Peak	100	44
6	15870.00	42.57	54.00	-11.43	29.02	13.55	Average	100	41
7	15870.00	54.68	74.00	-19.32	41.13	13.55	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	ax HE80	Test Freq. (MHz)	5290
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

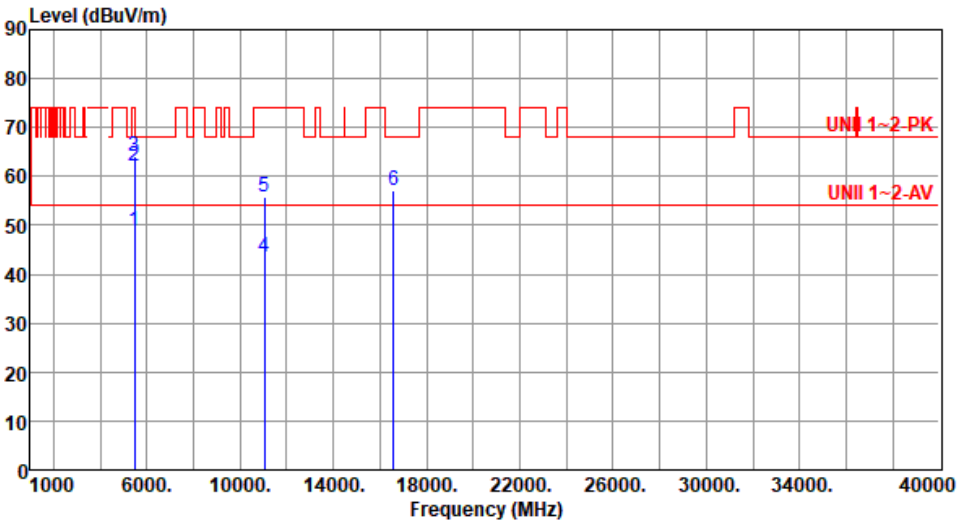


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.28	54.00	-7.72	41.27	5.01	Average	100	293
2	5150.00	59.21	74.00	-14.79	54.20	5.01	Peak	100	293
3	5350.00	52.88	54.00	-1.12	48.46	4.42	Average	100	293
4	5350.00	67.26	74.00	-6.74	62.84	4.42	Peak	100	293
5	10580.00	55.80	68.20	-12.40	41.42	14.38	Peak	100	188
6	15870.00	42.90	54.00	-11.10	29.35	13.55	Average	100	199
7	15870.00	54.88	74.00	-19.12	41.33	13.55	Peak	100	199

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	ax HE80	Test Freq. (MHz)	5530
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

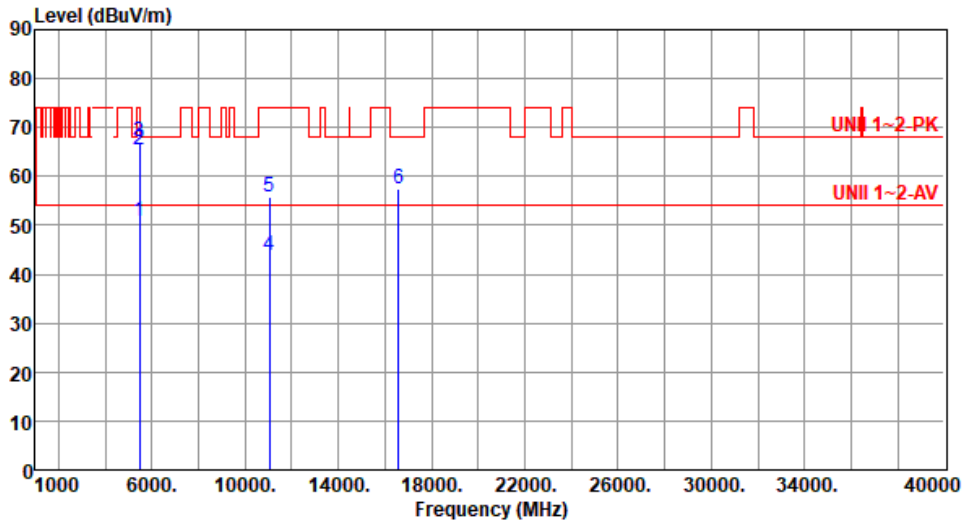


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	48.90	54.00	-5.10	44.23	4.67	Average	299	348
2	5460.00	62.27	74.00	-11.73	57.60	4.67	Peak	299	348
3	5470.00	64.14	68.20	-4.06	59.44	4.70	Peak	299	348
4	11060.00	43.41	54.00	-10.59	29.02	14.39	Average	100	60
5	11060.00	55.69	74.00	-18.31	41.30	14.39	Peak	100	60
6	16590.00	57.28	68.20	-10.92	41.24	16.04	Peak	100	61

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	ax HE80	Test Freq. (MHz)	5530
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

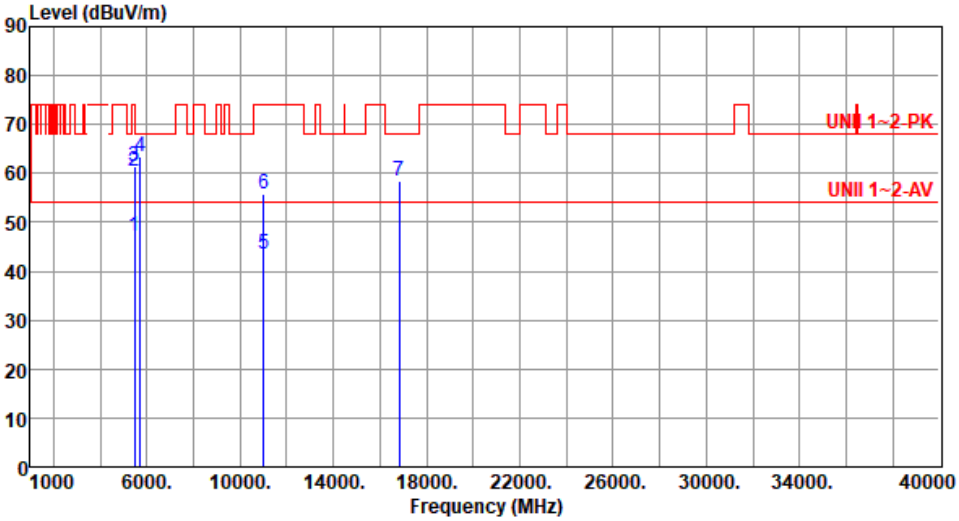


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	50.83	54.00	-3.17	46.16	4.67	Average	100	220
2	5460.00	65.52	74.00	-8.48	60.85	4.67	Peak	100	220
3	5470.00	67.12	68.20	-1.08	62.42	4.70	Peak	100	220
4	11060.00	43.71	54.00	-10.29	29.32	14.39	Average	100	187
5	11060.00	55.74	74.00	-18.26	41.35	14.39	Peak	100	187
6	16590.00	57.33	68.20	-10.87	41.29	16.04	Peak	100	187

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	ax HE80	Test Freq. (MHz)	5610
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

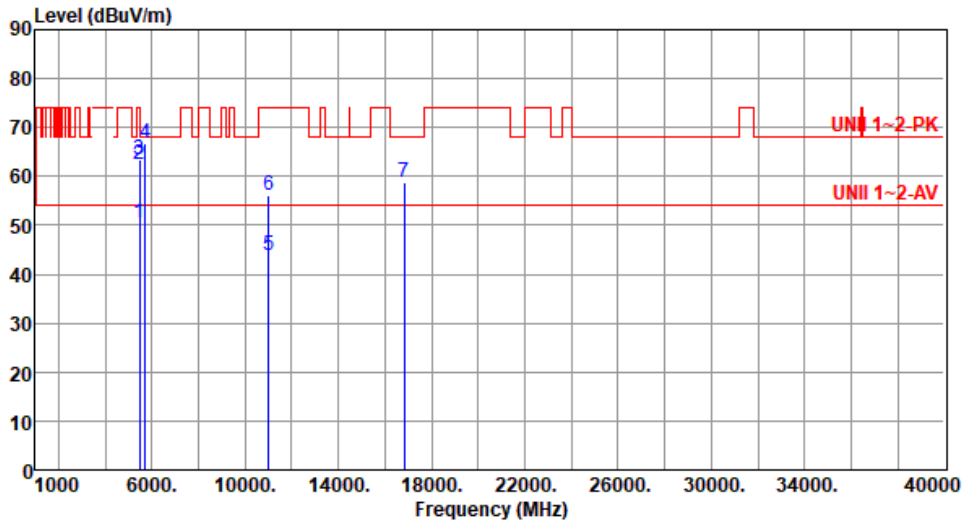


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.31	54.00	-6.69	42.64	4.67	Average	100	337
2	5460.00	60.56	74.00	-13.44	55.89	4.67	Peak	100	337
3	5470.00	61.55	68.20	-6.65	56.85	4.70	Peak	100	337
4	5725.00	63.58	68.20	-4.62	58.41	5.17	Peak	100	337
5	11020.00	43.66	54.00	-10.34	29.10	14.56	Average	100	58
6	11020.00	55.77	74.00	-18.23	41.21	14.56	Peak	100	58
7	16830.00	58.61	68.20	-9.59	41.15	17.46	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	ax HE80	Test Freq. (MHz)	5610
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

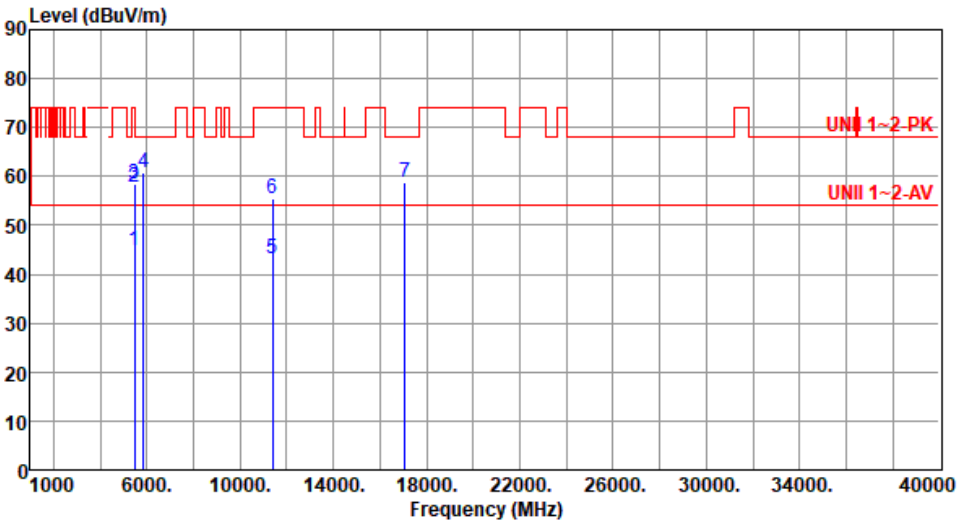


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	50.63	54.00	-3.37	45.96	4.67	Average	100	219
2	5460.00	62.29	74.00	-11.71	57.62	4.67	Peak	100	219
3	5470.00	63.36	68.20	-4.84	58.66	4.70	Peak	100	219
4	5725.00	66.91	68.20	-1.29	61.74	5.17	Peak	100	219
5	11020.00	43.95	54.00	-10.05	29.39	14.56	Average	100	197
6	11020.00	55.98	74.00	-18.02	41.42	14.56	Peak	100	197
7	16830.00	58.88	68.20	-9.32	41.42	17.46	Peak	100	195

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	ax HE80	Test Freq. (MHz)	5690
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

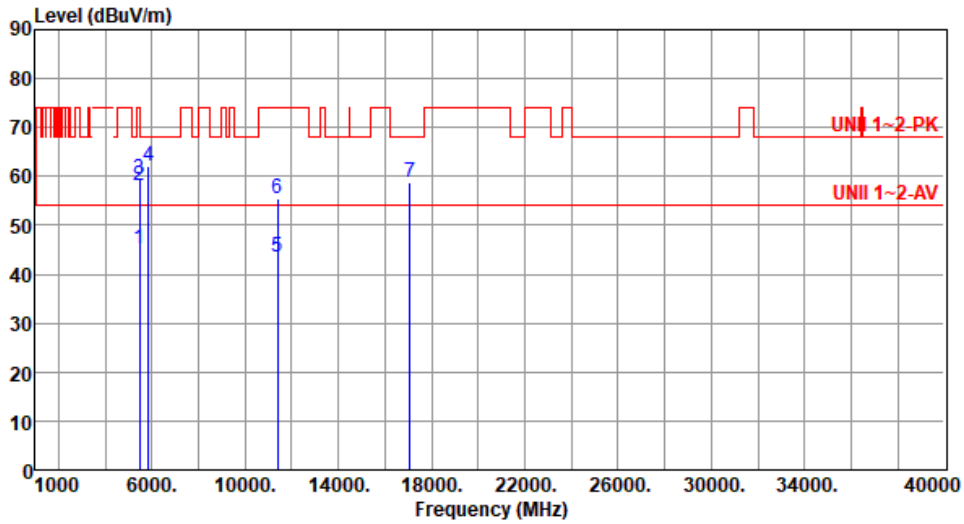


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.90	54.00	-9.10	40.23	4.67	Average	100	339
2	5460.00	57.93	74.00	-16.07	53.26	4.67	Peak	100	339
3	5470.00	58.40	68.20	-9.80	53.70	4.70	Peak	100	339
4	5850.00	60.65	68.20	-7.55	55.00	5.65	Peak	100	339
5	11380.00	43.30	54.00	-10.70	29.21	14.09	Average	100	42
6	11380.00	55.42	74.00	-18.58	41.33	14.09	Peak	100	42
7	17070.00	58.64	68.20	-9.56	41.27	17.37	Peak	100	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	ax HE80	Test Freq. (MHz)	5690
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

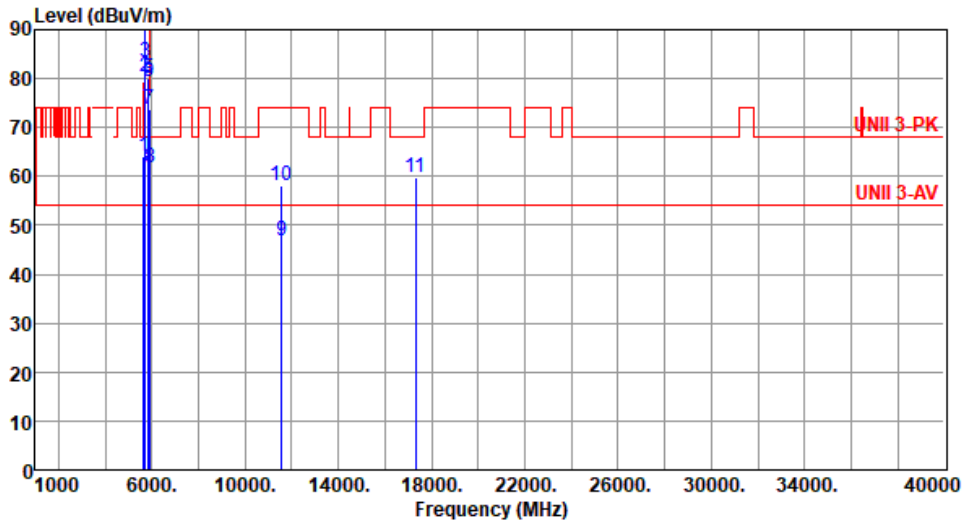


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.27	54.00	-8.73	40.60	4.67	Average	100	218
2	5460.00	58.26	74.00	-15.74	53.59	4.67	Peak	100	218
3	5470.00	59.31	68.20	-8.89	54.61	4.70	Peak	100	218
4	5850.00	62.14	68.20	-6.06	56.49	5.65	Peak	100	218
5	11380.00	43.54	54.00	-10.46	29.45	14.09	Average	100	199
6	11380.00	55.61	74.00	-18.39	41.52	14.09	Peak	100	199
7	17070.00	58.84	68.20	-9.36	41.47	17.37	Peak	100	184

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	ax HE80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):21 Humidity(%):65

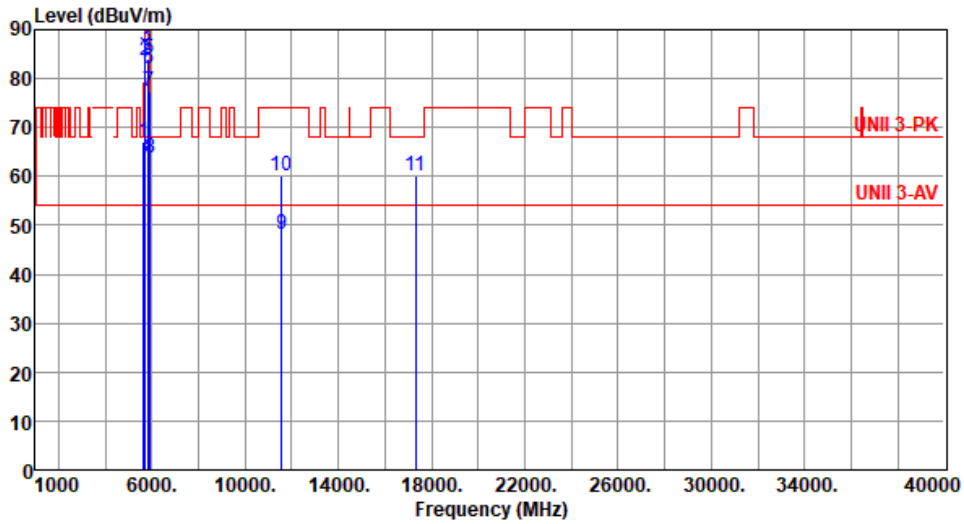


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	64.01	68.20	-4.19	59.20	4.81	Peak	285	341
2	5700.00	80.28	105.20	-24.92	75.26	5.02	Peak	285	341
3	5720.00	83.45	110.80	-27.35	78.31	5.14	Peak	285	341
4	5725.00	93.63	122.20	-28.57	88.46	5.17	Peak	285	341
5	5850.00	79.96	122.20	-42.24	74.31	5.65	Peak	285	341
6	5855.00	79.24	110.80	-31.56	73.59	5.65	Peak	285	341
7	5875.00	73.87	105.20	-31.33	68.21	5.66	Peak	285	341
8	5925.00	61.92	68.20	-6.28	56.31	5.61	Peak	285	341
9	11550.00	46.88	54.00	-7.12	32.58	14.30	Average	100	225
10	11550.00	58.19	74.00	-15.81	43.89	14.30	Peak	100	225
11	17325.00	59.92	68.20	-8.28	42.21	17.71	Peak	100	219

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	ax HE80	Test Freq. (MHz)	5775
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):21 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	5650.00	66.96	68.20	-1.24	62.15	4.81	Peak	100	220
2	5700.00	83.57	105.20	-21.63	78.55	5.02	Peak	100	220
3	5720.00	86.60	110.80	-24.20	81.46	5.14	Peak	100	220
4	5725.00	87.98	122.20	-34.22	82.81	5.17	Peak	100	220
5	5850.00	83.87	122.20	-38.33	78.22	5.65	Peak	100	220
6	5855.00	82.09	110.80	-28.71	76.44	5.65	Peak	100	220
7	5875.00	77.28	105.20	-27.92	71.62	5.66	Peak	100	220
8	5925.00	63.87	68.20	-4.33	58.26	5.61	Peak	100	220
9	11550.00	48.18	54.00	-5.82	33.88	14.30	Average	100	104
10	11550.00	60.15	74.00	-13.85	45.85	14.30	Peak	100	104
11	17325.00	60.04	68.20	-8.16	42.33	17.71	Peak	100	95

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).

3.6 Frequency Stability

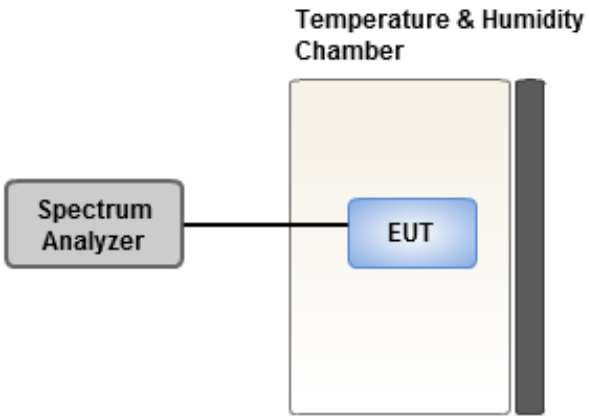
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	21°C / 66%	Tested By	Aska Huang

Frequency: 5260 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-0.10	-0.05	0.23	-0.18
T20°CVmin	0.27	0.18	0.60	0.37
T50°CVnom	0.47	0.85	0.44	0.67
T40°CVnom	0.71	0.69	0.18	1.15
T30°CVnom	0.12	0.26	0.15	0.80
T20°CVnom	0.13	0.76	0.53	0.52
T10°CVnom	1.92	1.97	2.25	2.09
T0°CVnom	6.06	6.63	6.68	6.03
T-10°CVnom	9.07	9.11	9.51	9.23
T-20°CVnom	11.60	11.81	11.60	11.43
T-30°CVnom	13.20	13.57	12.67	13.05
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [˚C]: 20		Tmax [˚C]: 50		Tmin [˚C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	0.76	0.48	0.57	1.16
T20°CVmin	0.78	0.95	0.48	0.91
T50CVnom	0.54	1.14	1.43	1.04
T40°CVnom	1.50	1.66	1.04	1.36
T30°CVnom	-0.02	0.69	-0.22	0.53
T20°CVnom	0.70	0.57	0.44	0.32
T10°CVnom	2.52	2.84	2.67	2.15
T0°CVnom	6.04	5.87	5.31	5.95
T-10°CVnom	9.37	8.93	9.13	9.56
T-20°CVnom	10.54	10.63	10.84	10.15
T-30°CVnom	12.80	12.64	12.63	13.15
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [˚C]: 20		Tmax [˚C]: 50		Tmin [˚C]: -30

4 Test laboratory information

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

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

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

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
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If you have any suggestion, please feel free to contact us as below information.

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