FCC Test Report

FCC ID	:	**P27-XIONESCM2**
Equipment	:	**XiOne-SC (B)**
Model No.	:	**SCXIxxBEIxCO; SCXIxxBEI** **(Refer to item 1.1.1 for more details.)**
Brand Name	:	**Comcast Xfinity; Cox; Shaw** **(Refer to item 1.1.1 for more details.)**
Applicant	:	**Sercomm Corporation**
Address	:	**8F, 3-1, YuanQu St., NanKang, Taipei, 11503, Taiwan**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Jun. 10, 2021**
Tested Date	:	**Jun. 12 ~ Jul. 15, 2021**

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 may be duplicated completely for legal use with the approval of the applicant. 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**

Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FR161001AN	Rev. 01	Initial issue	Jul. 26, 2021
FR161001AN	Rev. 02	Beamforming information is added	Jul. 30, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 6.056MHz 49.18 (Margin -10.82dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 68.15 (Margin -0.05dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 23.28 5250~5350MHz: 23.32 5470~5725MHz: 23.81 5725~5850MHz: 26.52	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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Comcast Xfinity; Cox; Shaw	SCXIxxBEIxCO; SCXIxxBEI	XiOne-SC (B)	Where "x" may be any alphanumeric for External Body Color.

- All models are electrically identical, different model names are for marketing purpose.
- The above models, model **SCXI11BEI** was selected as a representative one for the final test and only its data was recorded in this report.

1.1.2 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.					

1.1.3 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	Ant0	PIFA	UFL	3.37	3.7	3.87	3.8	3.5
2	Ant1	PIFA	NA	3.81	3.83	3.85	3.85	3.92

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5.0Vdc from AC adapter

1.1.5 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: LEADER Model: ML08-7050150-A1 I/P: 100-120V~ 50/60Hz, 0.25A O/P: 5.0Vdc, 1.5A Power Line: 1.8m non-shielded without core
2	AC adapter	Brand: NetBit Model: NBC08A050150HU I/P: 100-120V~ 50/60Hz, 0.2A O/P: 5.0Vdc, 1.5A Power Line: 1.81m non-shielded without core
3	AC adapter	Brand: AcBel Model: WAK010 I/P: 100-120V~ 60Hz, 0.25A O/P: 5.0Vdc, 1.5A Power Line: 1.78m non-shielded without core

1.1.6 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	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	accessMtool, V3.1.0.2 ; Tera Term, V4.66		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	96.00%	0.18
	ax HE20	99.52%	0.02
	ax HE40	97.31%	0.12
	ax HE80	95.08%	0.22

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	70
11a	5200	76
11a	5240	74
11a	5260	76
11a	5300	74
11a	5320	68
11a	5500	70
11a	5580	74
11a	5700	60
11a	5720	74
11a	5745	86
11a	5785	86
11a	5825	88
ax HE20	5180	68
ax HE20	5200	76
ax HE20	5240	74
ax HE20	5260	76
ax HE20	5300	74
ax HE20	5320	66
ax HE20	5500	66
ax HE20	5580	74
ax HE20	5700	58
ax HE20	5720	74
ax HE20	5745	86
ax HE20	5785	86
ax HE20	5825	88

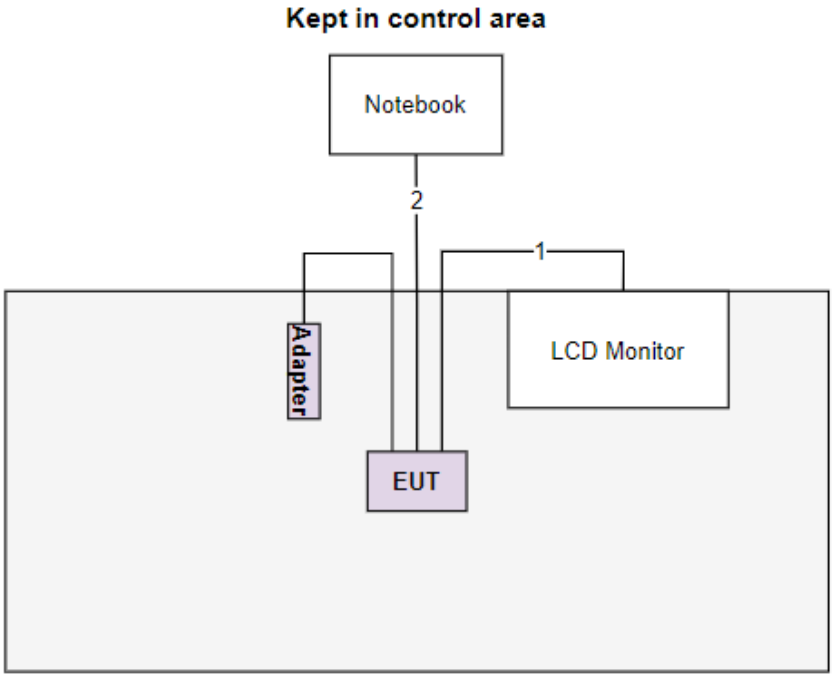
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	60
ax HE40	5230	70
ax HE40	5270	70
ax HE40	5310	62
ax HE40	5510	58
ax HE40	5590	74
ax HE40	5670	64
ax HE40	5710	76
ax HE40	5755	90
ax HE40	5795	90
ax HE80	5210	56
ax HE80	5290	56
ax HE80	5530	54
ax HE80	5610	70
ax HE80	5690	76
ax HE80	5775	72

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	LCD Monitor	ASUS	MX27UCS	---	---

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1	HDMI, 1.5m non-shielded.
2	RJ45, 10m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 23, 2021				
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	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 15, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 12 ~ Jul. 09, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
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	Jun. 16 ~ Jul. 15, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 04, 2020	Dec. 03, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 10, 2020	Sep. 09, 2021
Measurement Software	-	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**	**Test Configuration**
Conducted Emissions	ax HE80	5690	MCS 0	1
Radiated Emissions ≤1GHz	ax HE80	5690	MCS 0	1
Radiated Emissions >1GHz RF Output Power Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	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	
RF Output Power	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	2
	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	5320	---	1
Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	ax HE40	5795	MCS 0	1
Radiated Emissions ≤1GHz	ax HE40	5795	MCS 0	1
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1
RF Output Power Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
RF Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	2
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1

NOTE:
1. Three adapters (LEADER, NetBit & AcBel) had been covered during the pretest and found that **LEADER** adapter was the worst case and was selected for final testing.
2. The EUT had been tested by following test configuration
   Configuration 1: Non-Beamforming mode
   Configuration 2: Beamforming mode

3 Transmitter Test Results

3.1 Conducted Emissions

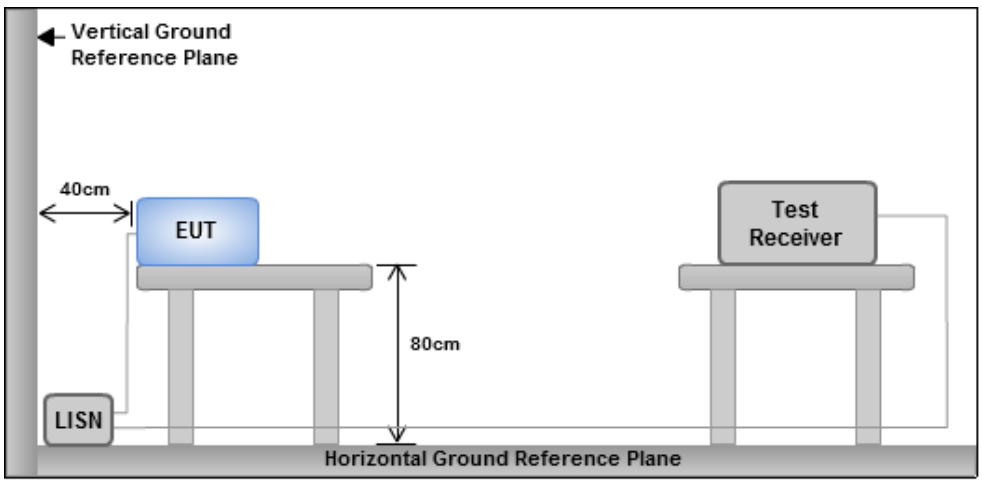
3.1.1 Limit of Conducted Emissions

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



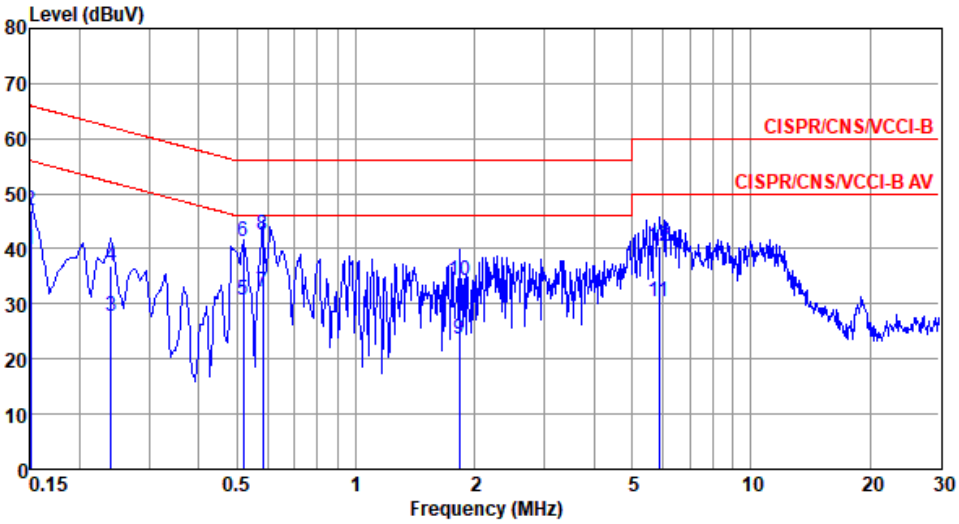
Note: 1. Support units were connected to second LISN.

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 HE80	Test Freq. (MHz)	5690
Power Phase	Line		

Test by : Joe Liao Temperature: 24°C Humidity: 63%

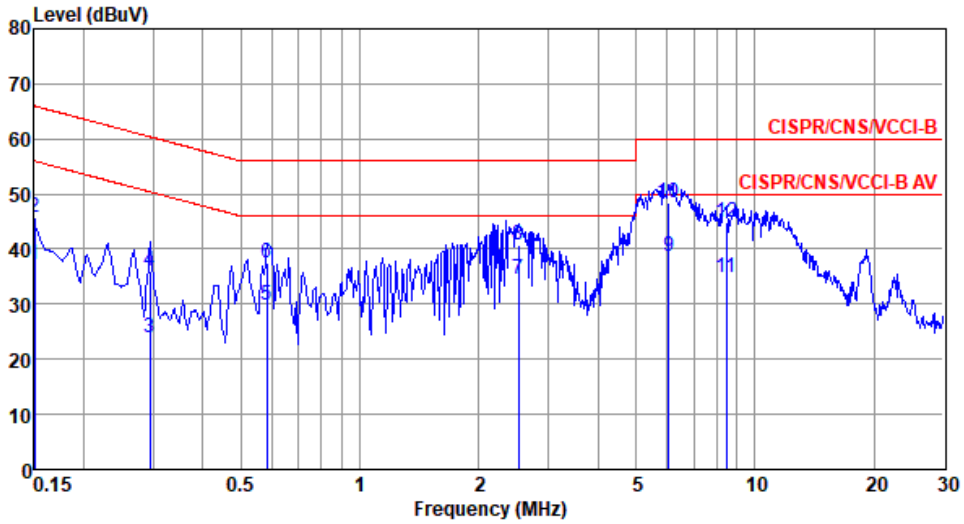


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	39.83	56.00	-16.17	29.95	9.83	0.05	Average
2	0.150	46.83	66.00	-19.17	36.95	9.83	0.05	QP
3	0.240	27.70	52.08	-24.38	17.78	9.85	0.07	Average
4	0.240	36.84	62.08	-25.24	26.92	9.85	0.07	QP
5	0.518	30.83	46.00	-15.17	20.82	9.92	0.09	Average
6	0.518	41.28	56.00	-14.72	31.27	9.92	0.09	QP
7	0.582	32.05	46.00	-13.95	22.02	9.93	0.10	Average
8*	0.582	42.63	56.00	-13.37	32.60	9.93	0.10	QP
9	1.829	23.50	46.00	-22.50	13.33	10.00	0.17	Average
10	1.829	34.35	56.00	-21.65	24.18	10.00	0.17	QP
11	5.867	30.40	50.00	-19.60	19.99	10.07	0.34	Average
12	5.867	40.59	60.00	-19.41	30.18	10.07	0.34	QP

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

Modulation	ax HE80	Test Freq. (MHz)	5690
Power Phase	Neutral		

Test by : Joe Liao Temperature: 24°C Humidity: 63%

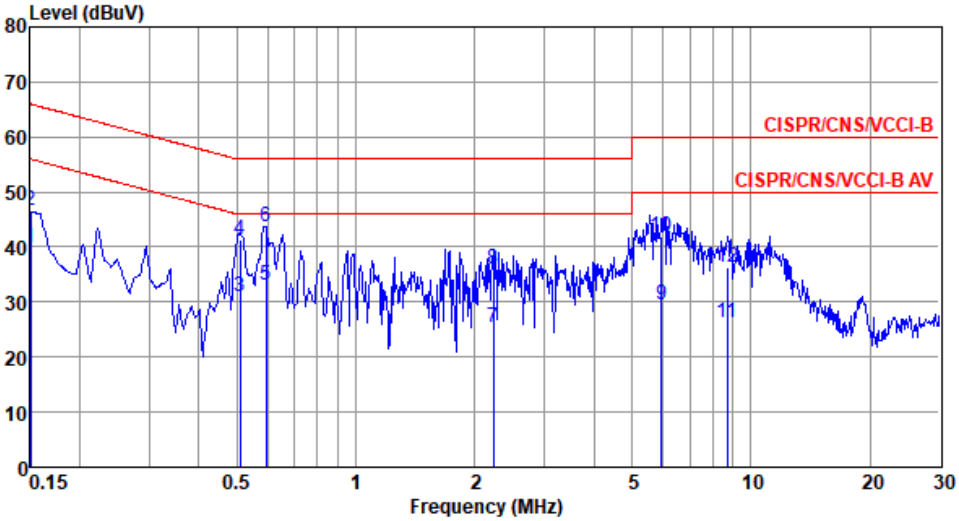


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	37.12	56.00	-18.88	27.25	9.82	0.05	Average
2	0.150	45.84	66.00	-20.16	35.97	9.82	0.05	QP
3	0.294	23.95	50.41	-26.46	14.04	9.84	0.07	Average
4	0.294	35.95	60.41	-24.46	26.04	9.84	0.07	QP
5	0.582	29.92	46.00	-16.08	19.96	9.86	0.10	Average
6	0.582	37.61	56.00	-18.39	27.65	9.86	0.10	QP
7	2.527	34.55	46.00	-11.45	24.38	9.95	0.22	Average
8	2.527	40.63	56.00	-15.37	30.46	9.95	0.22	QP
9*	6.056	38.58	50.00	-11.42	28.22	10.02	0.34	Average
10	6.056	48.42	60.00	-11.58	38.06	10.02	0.34	QP
11	8.456	34.72	50.00	-15.28	24.27	10.07	0.38	Average
12	8.456	44.95	60.00	-15.05	34.50	10.07	0.38	QP

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

Modulation	ax HE40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Joe Liao Temperature: 24°C Humidity: 63%

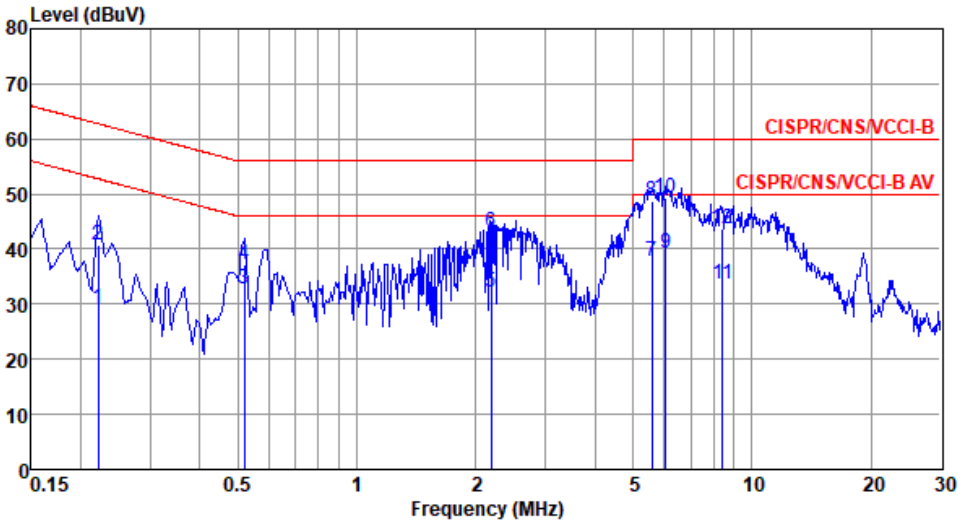


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	39.79	56.00	-16.21	29.91	9.83	0.05	Average
2	0.150	46.58	66.00	-19.42	36.70	9.83	0.05	QP
3	0.510	31.02	46.00	-14.98	21.01	9.92	0.09	Average
4	0.510	41.22	56.00	-14.78	31.21	9.92	0.09	QP
5	0.592	33.11	46.00	-12.89	23.08	9.93	0.10	Average
6*	0.592	43.61	56.00	-12.39	33.58	9.93	0.10	QP
7	2.225	25.38	46.00	-20.62	15.17	10.01	0.20	Average
8	2.225	36.07	56.00	-19.93	25.86	10.01	0.20	QP
9	5.929	29.58	50.00	-20.42	19.17	10.07	0.34	Average
10	5.929	41.92	60.00	-18.08	31.51	10.07	0.34	QP
11	8.729	26.18	50.00	-23.82	15.70	10.10	0.38	Average
12	8.729	36.30	60.00	-23.70	25.82	10.10	0.38	QP

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

Modulation	ax HE40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Joe Liao Temperature: 24°C Humidity: 63%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.222	29.13	52.74	-23.61	19.24	9.83	0.06	Average
2	0.222	40.65	62.74	-22.09	30.76	9.83	0.06	QP
3	0.518	32.86	46.00	-13.14	22.91	9.86	0.09	Average
4	0.518	37.06	56.00	-18.94	27.11	9.86	0.09	QP
5	2.190	32.16	46.00	-13.84	22.02	9.95	0.19	Average
6	2.190	43.22	56.00	-12.78	33.08	9.95	0.19	QP
7	5.594	37.86	50.00	-12.14	27.52	10.01	0.33	Average
8	5.594	48.72	60.00	-11.28	38.38	10.01	0.33	QP
9	6.056	39.15	50.00	-10.85	28.79	10.02	0.34	Average
10*	6.056	49.18	60.00	-10.82	38.82	10.02	0.34	QP
11	8.412	33.65	50.00	-16.35	23.20	10.07	0.38	Average
12	8.412	43.72	60.00	-16.28	33.27	10.07	0.38	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (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.

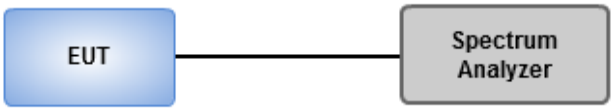
Occupied Bandwidth

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	23-25°C / 64%	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	32.174M	17.077M	17M1D1D	21.377M	16.498M
802.11ax HEW20_Nss1,(MCS0)_2TX	38.406M	19.247M	19M2D1D	21.594M	19.103M
802.11ax HEW40_Nss1,(MCS0)_2TX	57.971M	37.771M	37M8D1D	39.565M	37.482M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.449M	76.99M	77M0D1D	80.87M	76.7M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.638M	19.175M	19M2D1D	21.232M	16.57M
802.11ax HEW20_Nss1,(MCS0)_2TX	34.058M	19.175M	19M2D1D	21.449M	19.03M
802.11ax HEW40_Nss1,(MCS0)_2TX	55.072M	37.627M	37M6D1D	40M	37.627M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.029M	76.99M	77M0D1D	81.449M	76.99M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.638M	16.932M	16M9D1D	15.522M	13.372M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.899M	19.175M	19M2D1D	15.739M	14.544M
802.11ax HEW40_Nss1,(MCS0)_2TX	65.942M	37.627M	37M6D1D	37.739M	33.734M
802.11ax HEW80_Nss1,(MCS0)_2TX	94.13M	76.99M	77M0D1D	75.435M	73.155M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.377M	20.116M	20M1D1D	3.13M	4.168M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.986M	20.622M	20M6D1D	4.406M	4.573M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.681M	44.863M	44M9D1D	3.768M	9.957M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.681M	77.279M	77M3D1D	3.71M	20.897M

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

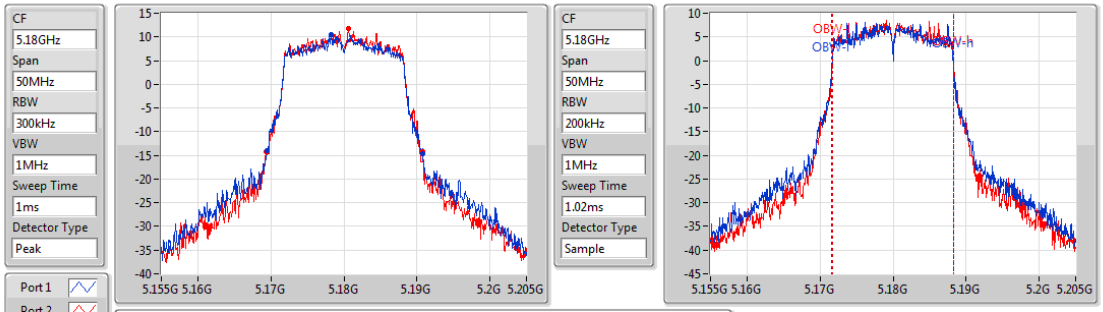
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.377M	16.643M	21.449M	16.498M
5200MHz	Pass	Inf	31.957M	17.004M	24.13M	16.787M
5240MHz	Pass	Inf	32.174M	17.077M	24.13M	16.86M
5260MHz	Pass	Inf	24.275M	19.175M	22.754M	19.103M
5300MHz	Pass	Inf	29.348M	17.077M	29.638M	16.86M
5320MHz	Pass	Inf	21.449M	16.57M	21.232M	16.57M
5500MHz	Pass	Inf	21.739M	16.715M	21.087M	16.498M
5580MHz	Pass	Inf	24.638M	16.932M	21.667M	16.787M
5700MHz	Pass	Inf	21.522M	16.715M	21.377M	16.643M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.652M	13.502M	15.522M	13.372M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	4.457M	3.188M	4.168M
5745MHz	Pass	500k	16.377M	18.234M	16.377M	17.221M
5785MHz	Pass	500k	16.377M	19.682M	16.377M	17.728M
5825MHz	Pass	500k	16.377M	20.116M	16.377M	17.583M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.739M	19.103M	21.594M	19.103M
5200MHz	Pass	Inf	38.406M	19.247M	24.275M	19.175M
5240MHz	Pass	Inf	33.768M	19.247M	28.261M	19.175M
5260MHz	Pass	Inf	30M	19.175M	24.493M	19.175M
5300MHz	Pass	Inf	28.333M	19.175M	34.058M	19.175M
5320MHz	Pass	Inf	21.522M	19.03M	21.449M	19.03M
5500MHz	Pass	Inf	21.812M	19.103M	21.449M	19.103M
5580MHz	Pass	Inf	22.899M	19.175M	21.594M	19.103M
5700MHz	Pass	Inf	21.522M	19.03M	21.667M	19.03M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.217M	14.544M	15.739M	14.588M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.406M	4.92M	4.464M	4.573M
5745MHz	Pass	500k	18.841M	19.03M	18.913M	19.03M
5785MHz	Pass	500k	18.986M	19.537M	18.841M	19.175M
5825MHz	Pass	500k	18.623M	20.622M	18.551M	19.32M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.565M	37.627M	39.855M	37.482M
5230MHz	Pass	Inf	57.971M	37.771M	42.609M	37.627M
5270MHz	Pass	Inf	55.072M	37.627M	40M	37.627M
5310MHz	Pass	Inf	40M	37.627M	40M	37.627M
5510MHz	Pass	Inf	39.855M	37.627M	40.145M	37.627M
5590MHz	Pass	Inf	65.942M	37.627M	44.493M	37.627M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5670MHz	Pass	Inf	40.145M	37.627M	40M	37.627M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42M	33.734M	37.739M	33.734M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	15.861M	3.768M	9.957M
5755MHz	Pass	500k	37.681M	44.863M	37.391M	38.35M
5795MHz	Pass	500k	37.246M	42.692M	36.377M	38.061M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	80.87M	76.99M	81.449M	76.7M
5290MHz	Pass	Inf	82.029M	76.99M	81.449M	76.99M
5530MHz	Pass	Inf	81.159M	76.99M	81.739M	76.99M
5610MHz	Pass	Inf	81.159M	76.99M	81.449M	76.7M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	94.13M	73.155M	75.435M	73.372M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.884M	27.844M	3.71M	20.897M
5775MHz	Pass	500k	76.812M	77.279M	77.681M	76.99M

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**

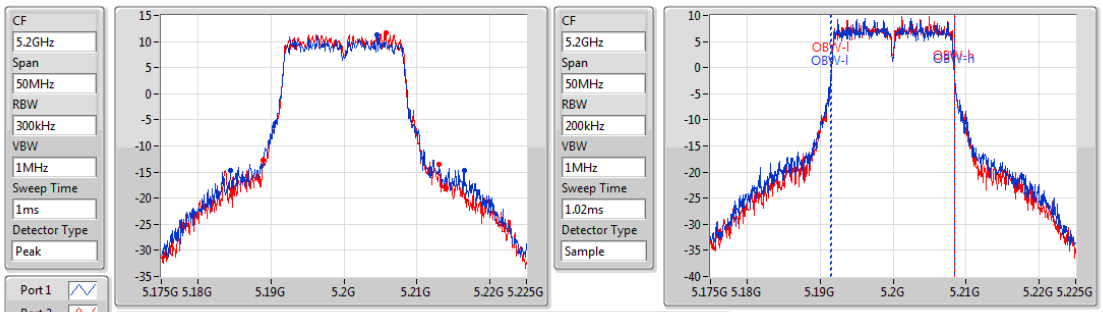
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.16942G	5.190797G	16.643M	5.171606G	5.188249G	Inf	1
21.449M	5.169348G	5.190797G	16.498M	5.171751G	5.188249G	Inf	2

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

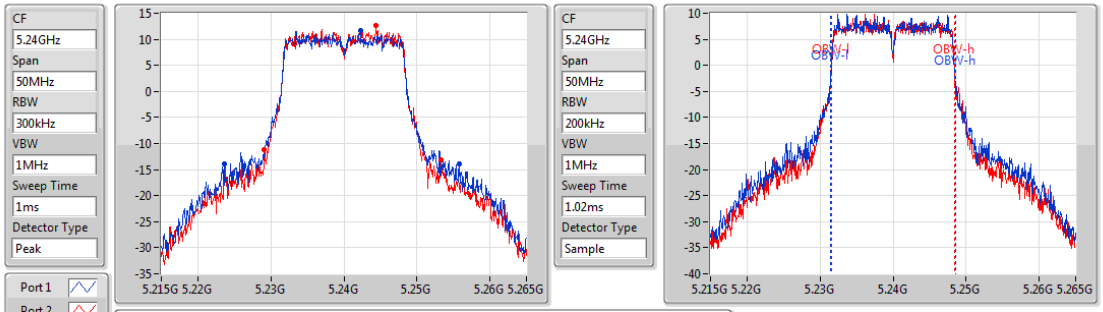
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.957M	5.184493G	5.216449G	17.004M	5.191462G	5.208466G	Inf	1
24.13M	5.188913G	5.213043G	16.787M	5.191606G	5.208394G	Inf	2

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

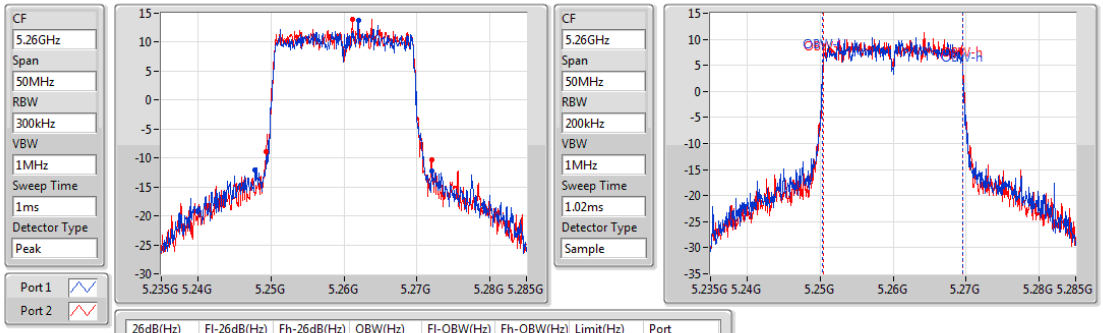
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.174M	5.223623G	5.255797G	17.077M	5.231462G	5.248538G	Inf	1
24.13M	5.22913G	5.253261G	16.86M	5.231534G	5.248394G	Inf	2

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

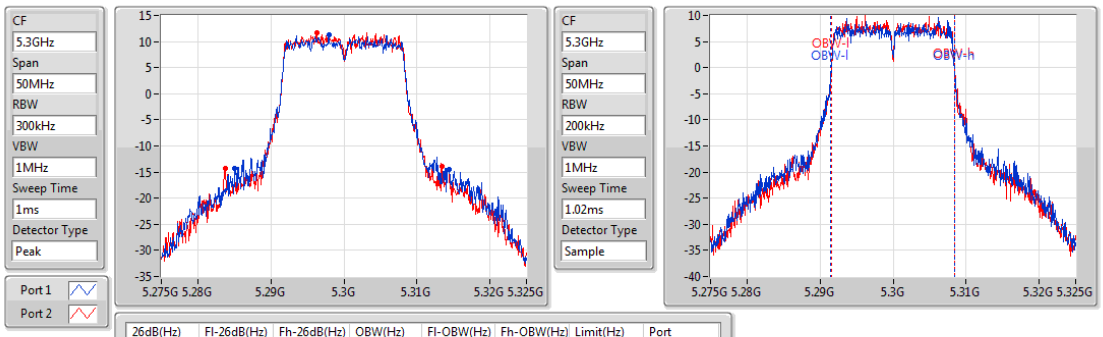
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.275M	5.247754G	5.272029G	19.175M	5.250376G	5.269551G	Inf	1
22.754M	5.249348G	5.272101G	19.103M	5.250449G	5.269551G	Inf	2

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

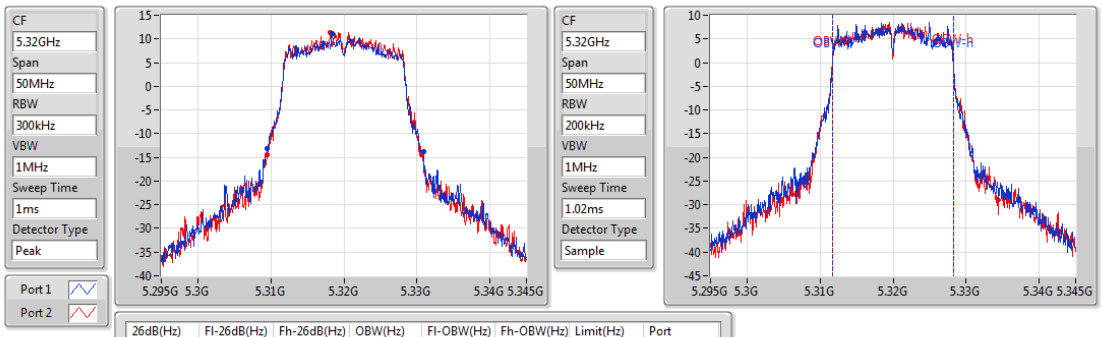
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.348M	5.285072G	5.31442G	17.077M	5.291389G	5.308466G	Inf	1
29.638M	5.283768G	5.313406G	16.86M	5.291606G	5.308466G	Inf	2

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

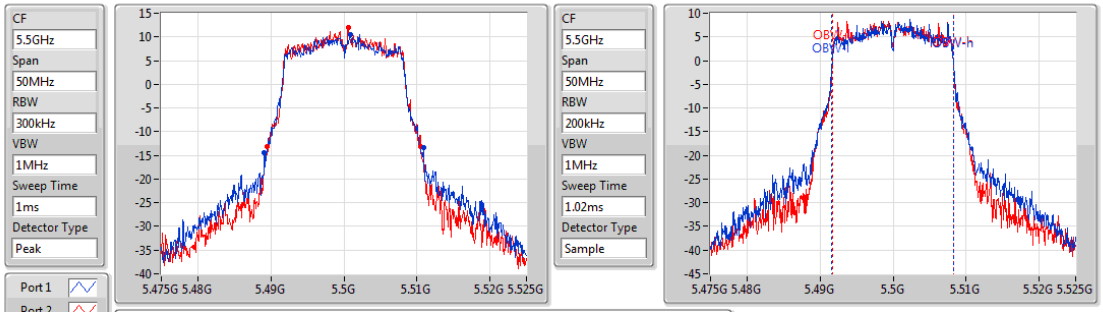
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.449M	5.30942G	5.33087G	16.57M	5.311679G	5.328249G	Inf	1
21.232M	5.30942G	5.330652G	16.57M	5.311679G	5.328249G	Inf	2

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

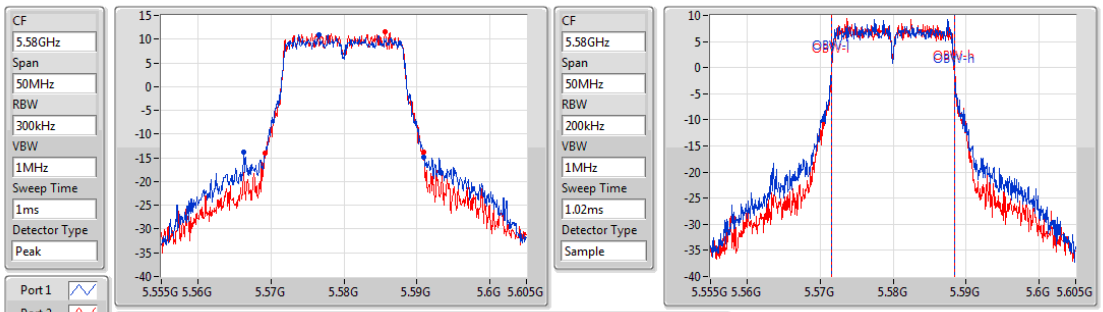
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.739M	5.48913G	5.51087G	16.715M	5.491606G	5.508321G	Inf	1
21.087M	5.489493G	5.51058G	16.498M	5.491751G	5.508249G	Inf	2

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

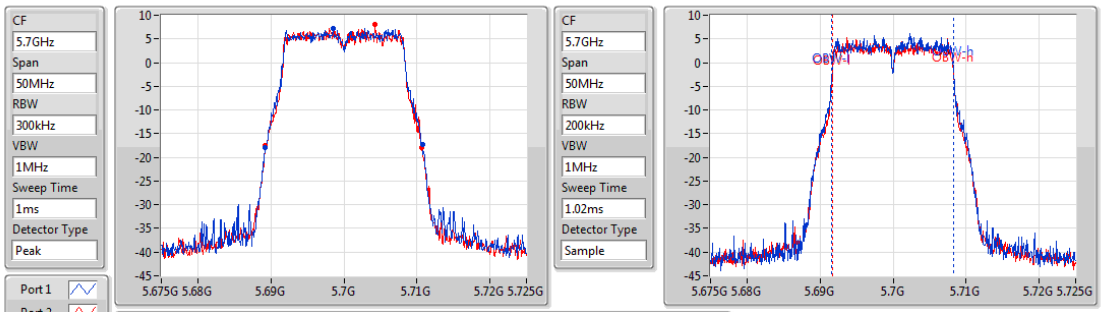
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.638M	5.566304G	5.590942G	16.932M	5.571534G	5.588466G	Inf	1
21.667M	5.569275G	5.590942G	16.787M	5.571606G	5.588394G	Inf	2

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

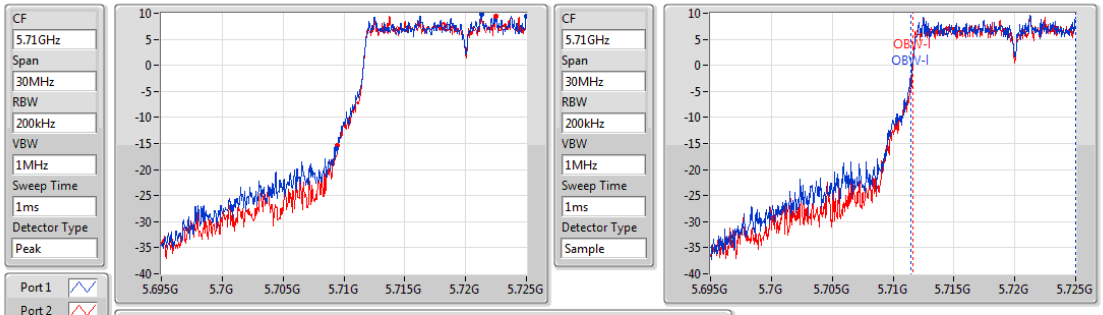
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.522M	5.689203G	5.710725G	16.715M	5.691606G	5.708321G	Inf	1
21.377M	5.689275G	5.710652G	16.643M	5.691679G	5.708321G	Inf	2

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

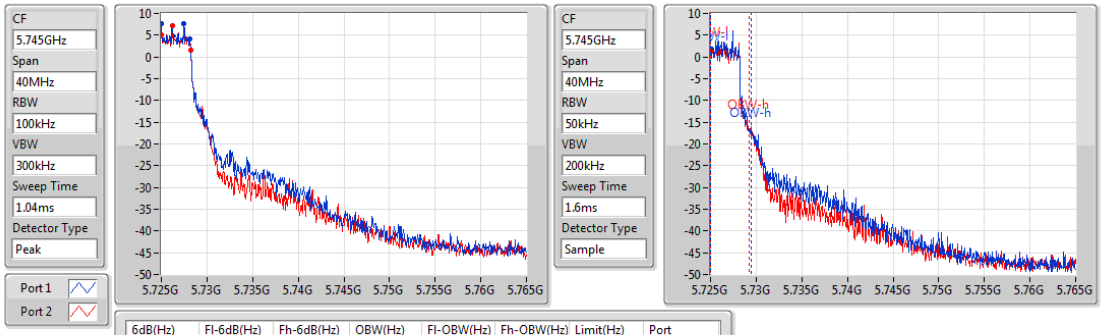
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.652M	5.709348G	5.725G	13.502M	5.711476G	5.724978G	Inf	1
15.522M	5.709478G	5.725G	13.372M	5.711606G	5.724978G	Inf	2

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

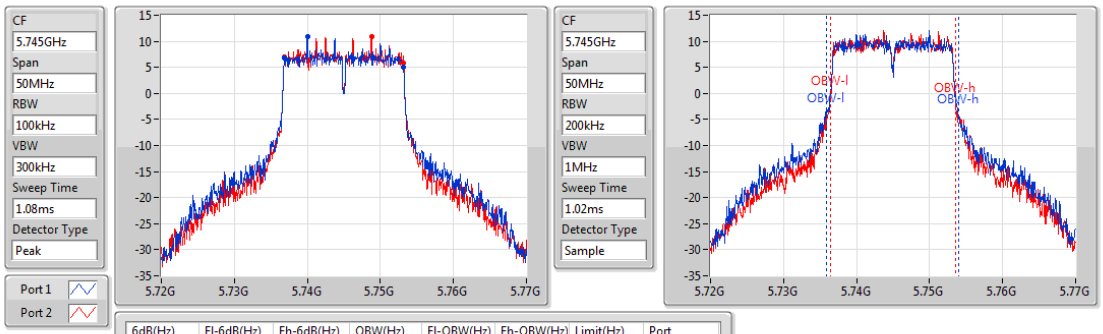
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.13M	5.725G	5.72813G	4.457M	5.725029G	5.729486G	500k	1
3.188M	5.725G	5.728188G	4.168M	5.725029G	5.729197G	500k	2

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

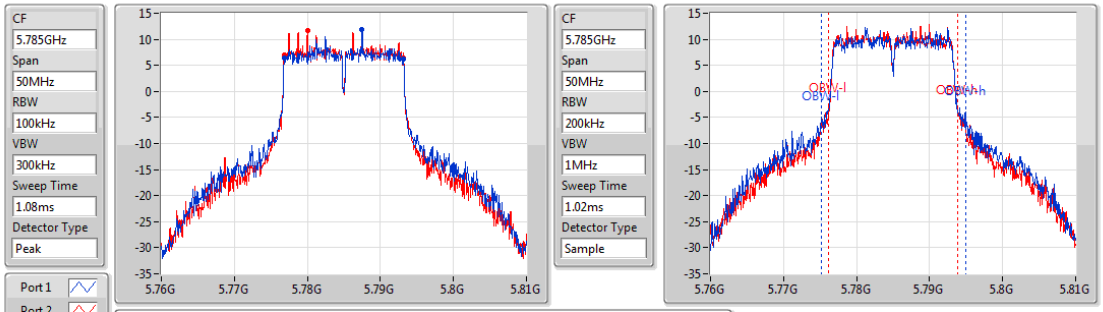
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.377M	5.736812G	5.753188G	18.234M	5.73581G	5.754045G	500k	1
16.377M	5.736812G	5.753188G	17.221M	5.736389G	5.753611G	500k	2

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

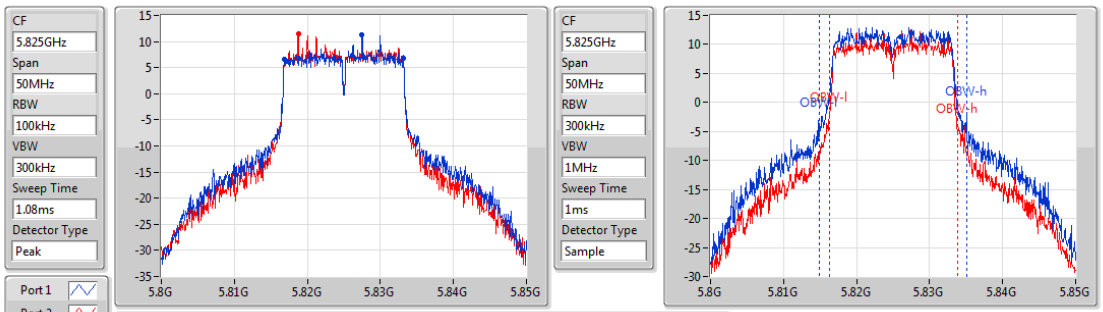
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.377M	5.776812G	5.793188G	19.682M	5.775232G	5.794913G	500k	1
16.377M	5.776812G	5.793188G	17.728M	5.776172G	5.7939G	500k	2

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

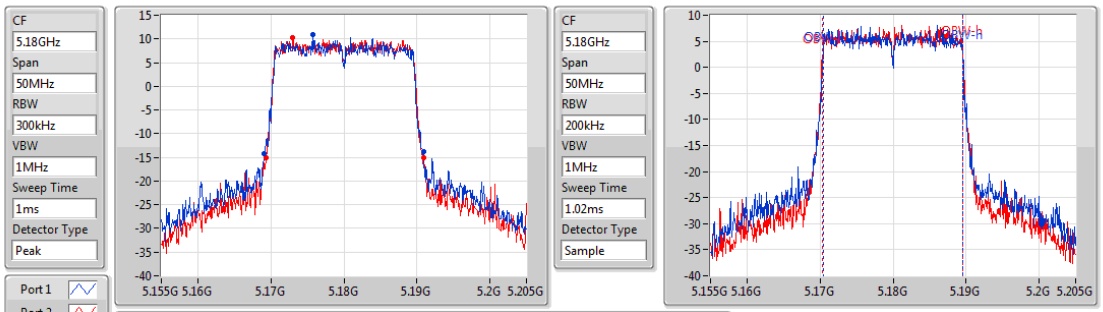
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.377M	5.816812G	5.833188G	20.116M	5.814942G	5.835058G	500k	1
16.377M	5.816812G	5.833188G	17.583M	5.816245G	5.833828G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

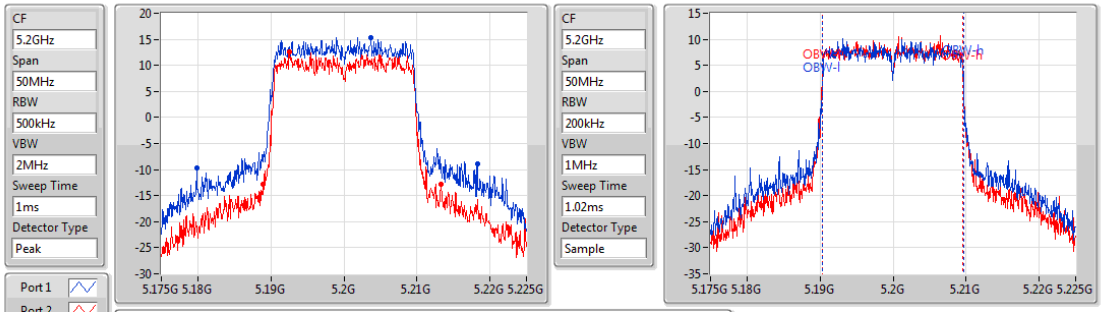
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.739M	5.16913G	5.19087G	19.103M	5.170449G	5.189551G	Inf	1
21.594M	5.169348G	5.190942G	19.103M	5.170376G	5.189479G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

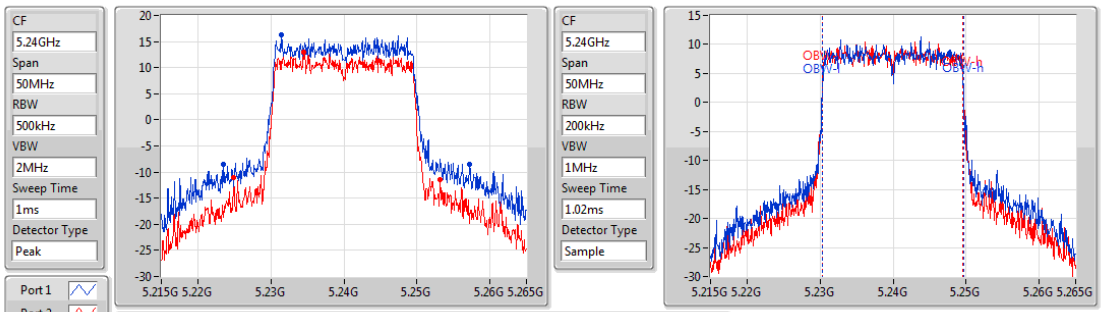
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.406M	5.179855G	5.218261G	19.247M	5.190376G	5.209624G	Inf	1
24.275M	5.188986G	5.213261G	19.175M	5.190376G	5.209551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

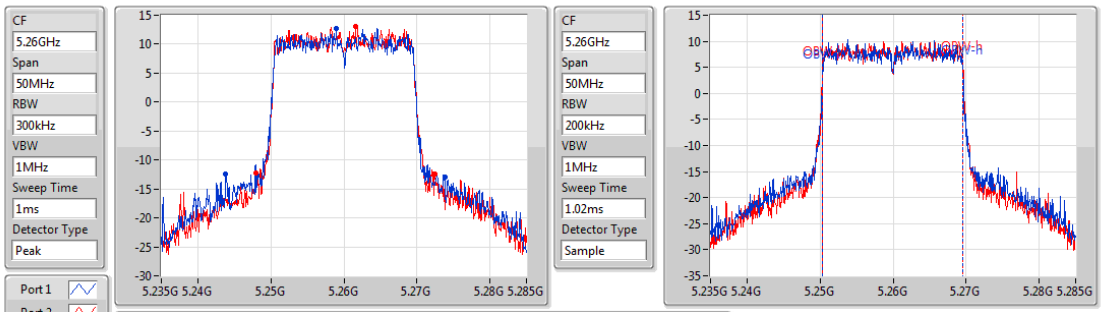
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.768M	5.223478G	5.257246G	19.247M	5.230376G	5.249624G	Inf	1
28.261M	5.224928G	5.253188G	19.175M	5.230376G	5.249551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

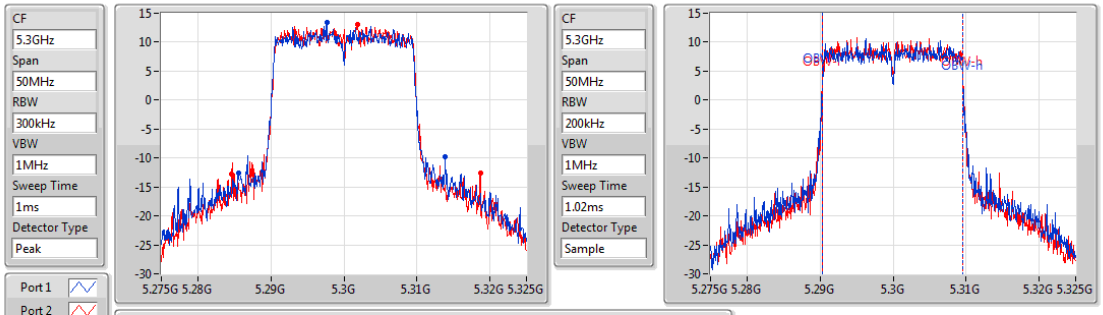
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30M	5.243841G	5.273841G	19.175M	5.250376G	5.269551G	Inf	1
24.493M	5.247971G	5.272464G	19.175M	5.250376G	5.269551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

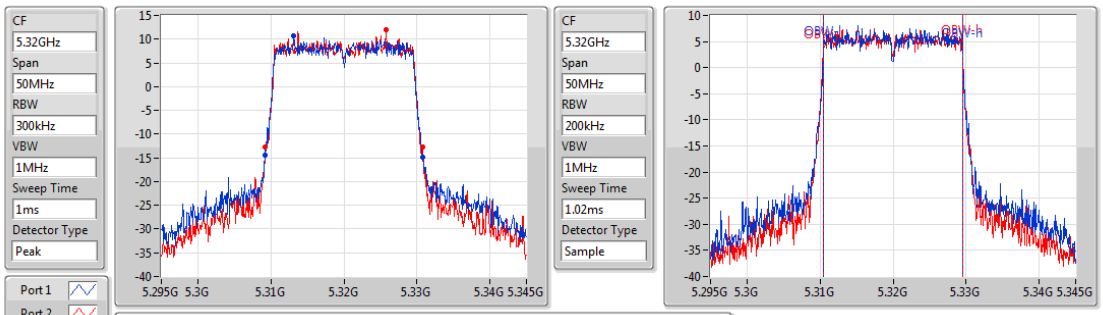
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.333M	5.28558G	5.313913G	19.175M	5.290376G	5.309551G	Inf	1
34.058M	5.284638G	5.318696G	19.175M	5.290376G	5.309551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

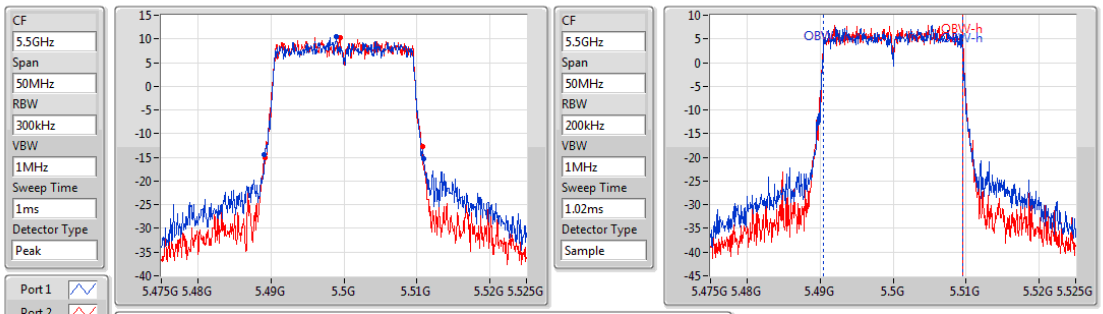
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.522M	5.309203G	5.330725G	19.03M	5.310449G	5.329479G	Inf	1
21.449M	5.309275G	5.330725G	19.03M	5.310449G	5.329479G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

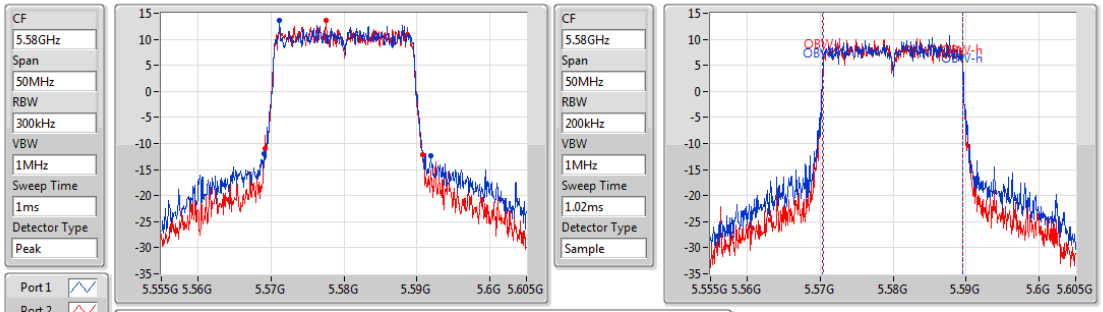
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.812M	5.48913G	5.510942G	19.103M	5.490449G	5.509551G	Inf	1
21.449M	5.489275G	5.510725G	19.103M	5.490449G	5.509551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

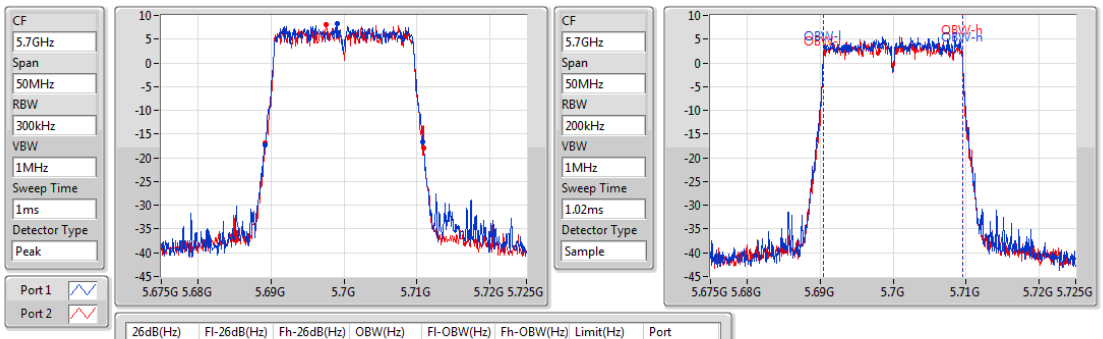
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.899M	5.569058G	5.591957G	19.175M	5.570376G	5.589551G	Inf	1
21.594M	5.569203G	5.590797G	19.103M	5.570449G	5.589551G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

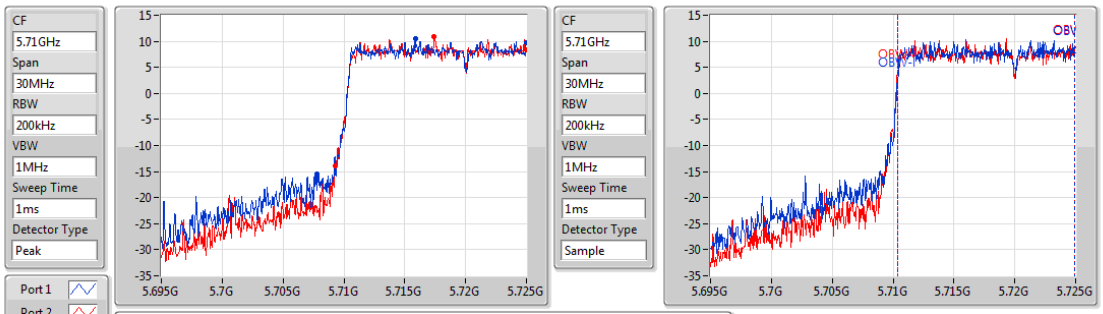
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.522M	5.689275G	5.710797G	19.03M	5.690449G	5.709479G	Inf	1
21.667M	5.689275G	5.710942G	19.03M	5.690449G	5.709479G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

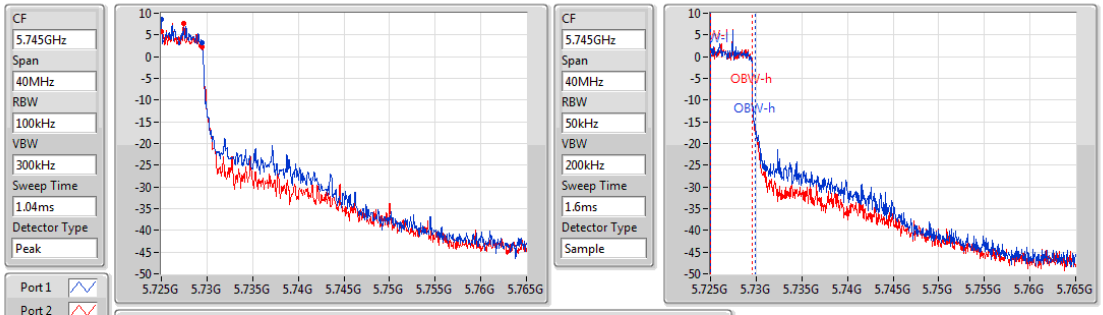
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.217M	5.707783G	5.725G	14.544M	5.710391G	5.724935G	Inf	1
15.739M	5.709261G	5.725G	14.588M	5.710347G	5.724935G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

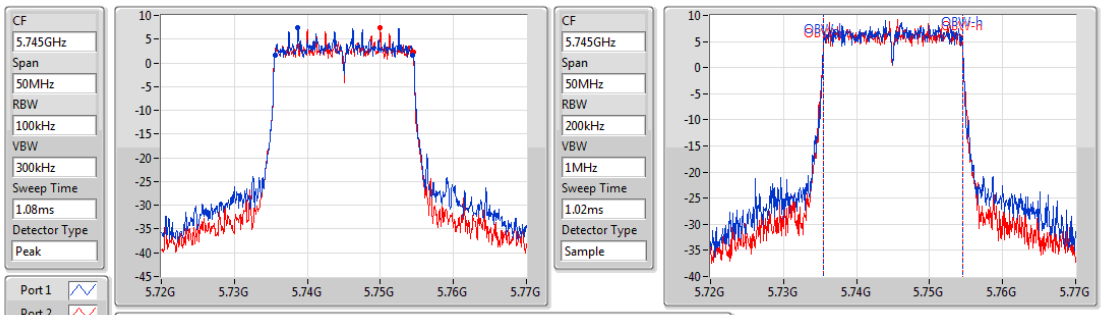
5720MHz Straddle 5.725-5.85GHz



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	4.92M	5.725029G	5.729949G	500k	1
4.464M	5.725G	5.729464G	4.573M	5.725029G	5.729602G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

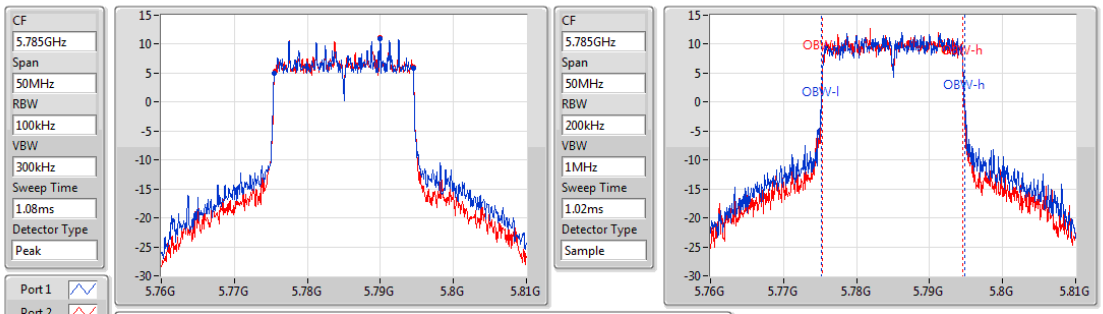
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.841M	5.73558G	5.75442G	19.03M	5.735449G	5.754479G	500k	1
18.913M	5.73558G	5.754493G	19.03M	5.735449G	5.754479G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

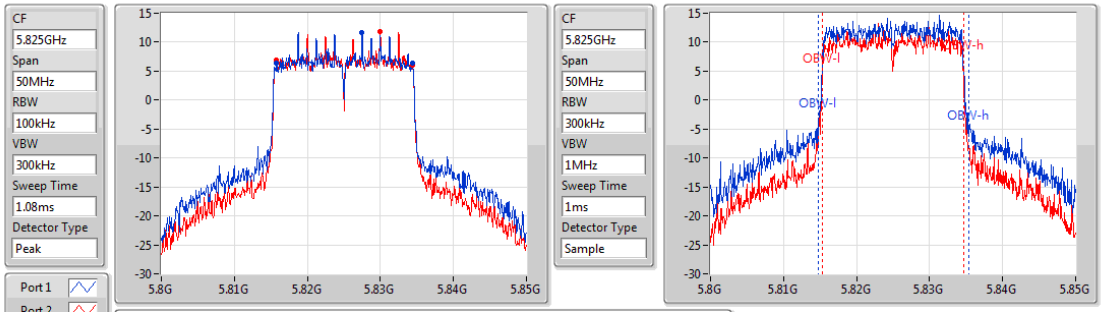
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.986M	5.775507G	5.794493G	19.537M	5.775232G	5.794768G	500k	1
18.841M	5.775652G	5.794493G	19.175M	5.775376G	5.794551G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

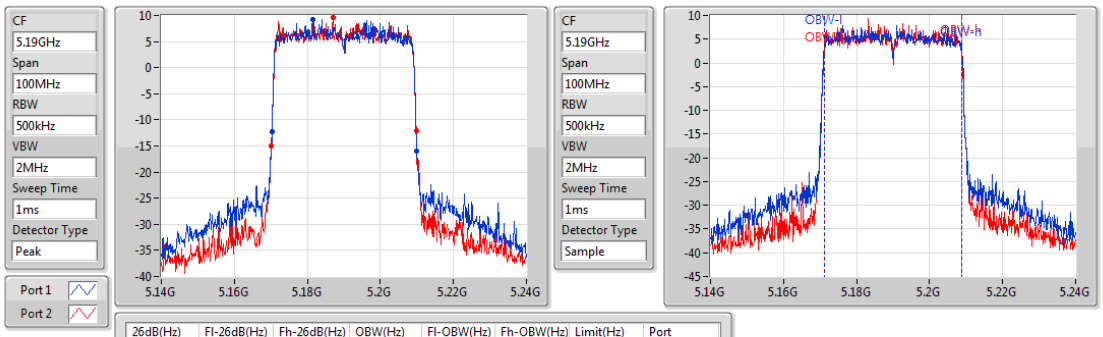
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.623M	5.815797G	5.83442G	20.622M	5.814797G	5.83542G	500k	1
18.551M	5.815797G	5.834348G	19.32M	5.815304G	5.834624G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

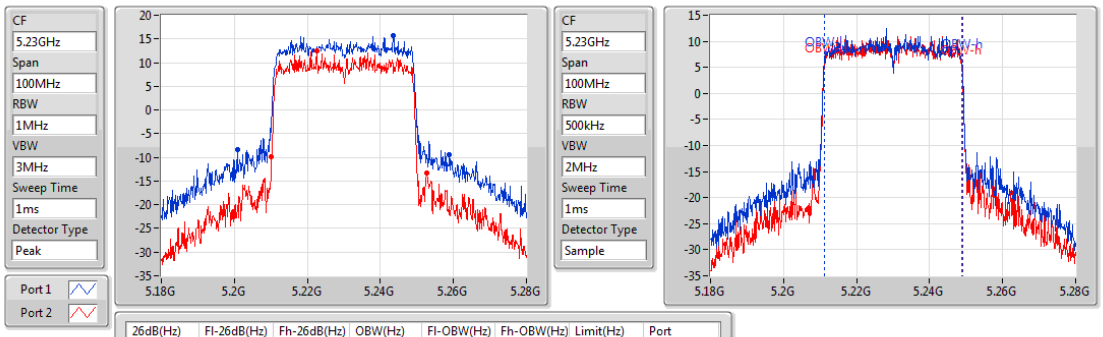
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.565M	5.17029G	5.209855G	37.627M	5.171187G	5.208813G	Inf	1
39.855M	5.17G	5.209855G	37.482M	5.171187G	5.208669G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

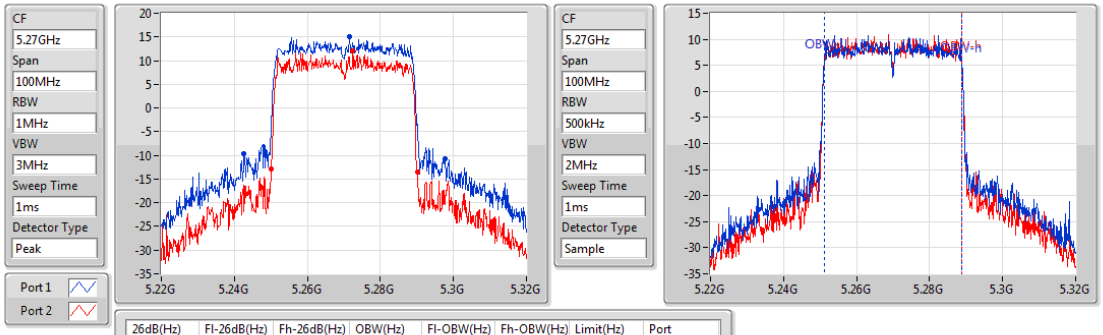
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
57.971M	5.20087G	5.258841G	37.771M	5.211187G	5.248958G	Inf	1
42.609M	5.210145G	5.252754G	37.627M	5.211187G	5.248813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

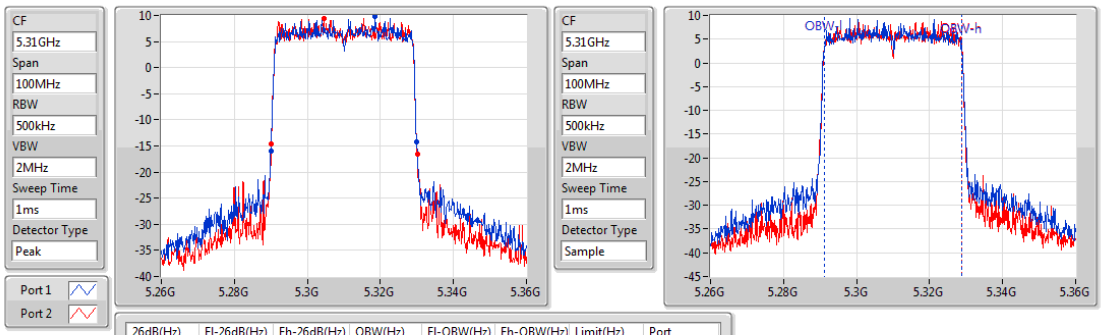
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
55.072M	5.242609G	5.297681G	37.627M	5.251187G	5.288813G	Inf	1
40M	5.250145G	5.290145G	37.627M	5.251187G	5.288813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

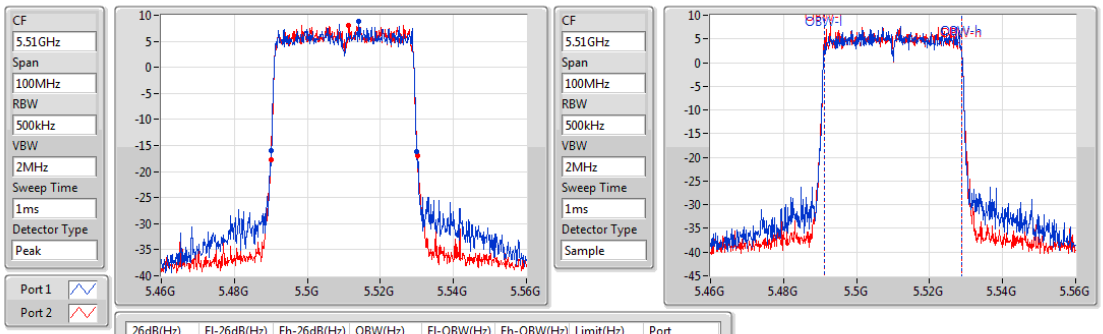
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.29G	5.33G	37.627M	5.291187G	5.328813G	Inf	1
40M	5.290145G	5.330145G	37.627M	5.291187G	5.328813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

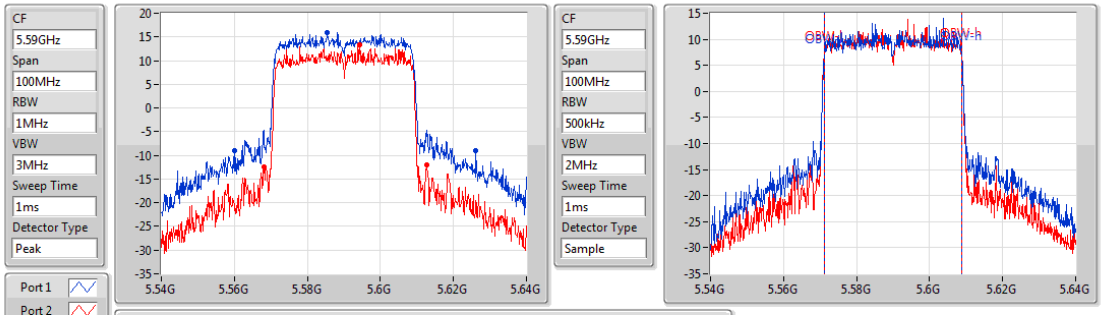
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.855M	5.490145G	5.53G	37.627M	5.491187G	5.528813G	Inf	1
40.145M	5.49G	5.530145G	37.627M	5.491187G	5.528813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

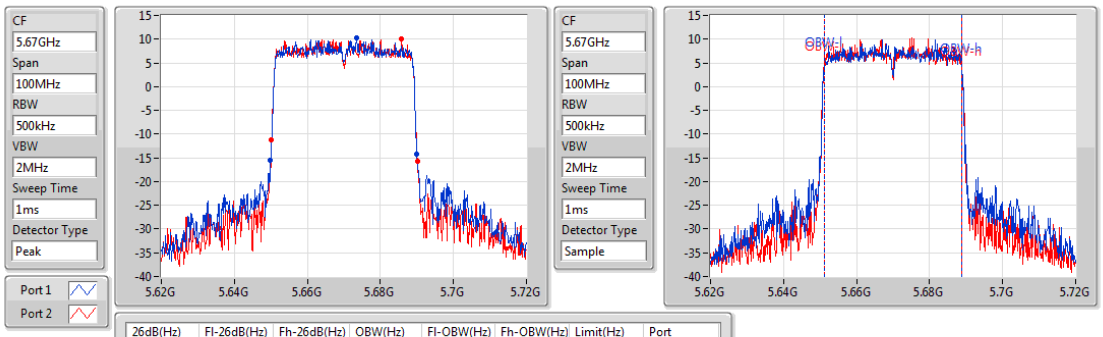
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
65.942M	5.560145G	5.626087G	37.627M	5.571187G	5.608813G	Inf	1
44.493M	5.568261G	5.612754G	37.627M	5.571187G	5.608813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

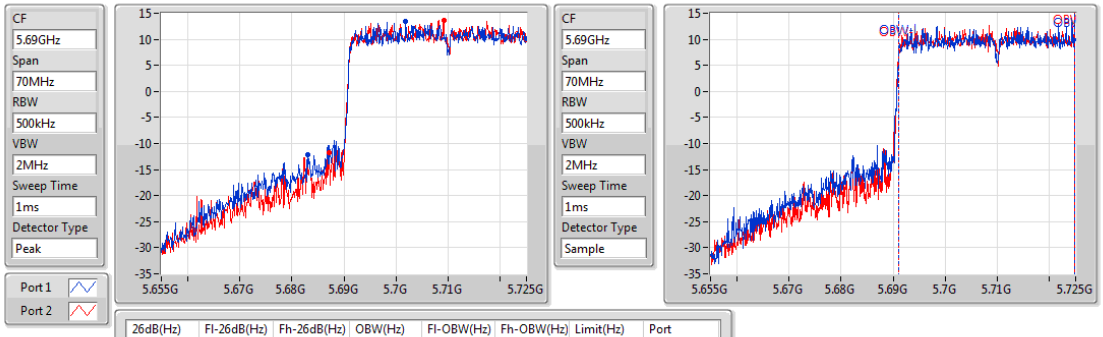
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.145M	5.649855G	5.69G	37.627M	5.651187G	5.688813G	Inf	1
40M	5.650145G	5.690145G	37.627M	5.651187G	5.688813G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

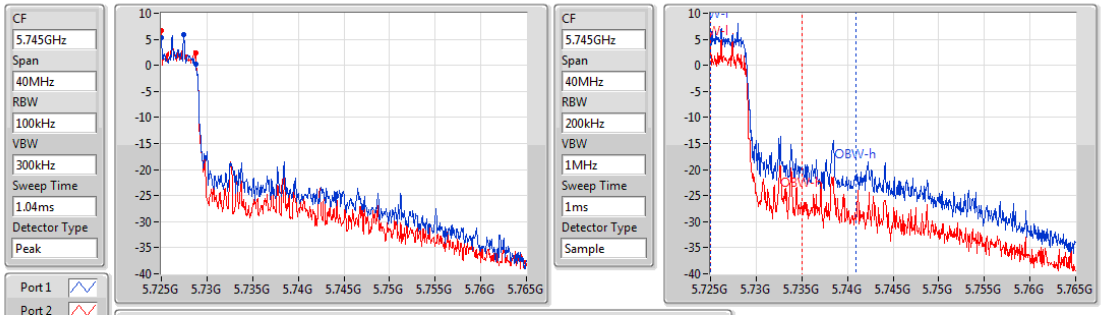
5710MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42M	5.683G	5.725G	33.734M	5.691114G	5.724848G	Inf	1
37.739M	5.687261G	5.725G	33.734M	5.691114G	5.724848G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

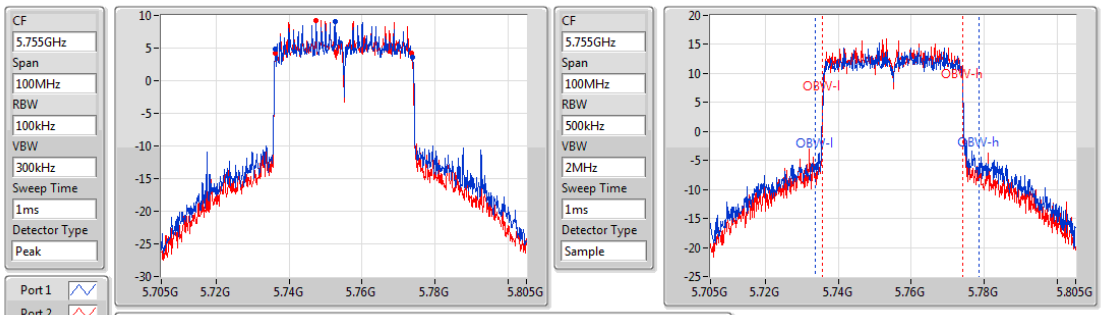
5710MHz Straddle 5.725-5.85GHz



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	15.861M	5.725029G	5.74089G	500k	1
3.768M	5.725G	5.728768G	9.957M	5.725029G	5.734986G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

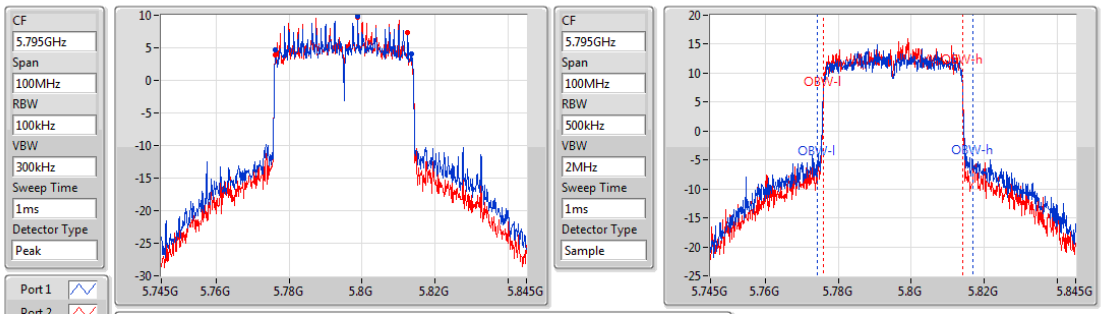
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.681M	5.736159G	5.773841G	44.863M	5.733726G	5.778589G	500k	1
37.391M	5.736159G	5.773551G	38.35M	5.735753G	5.774103G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

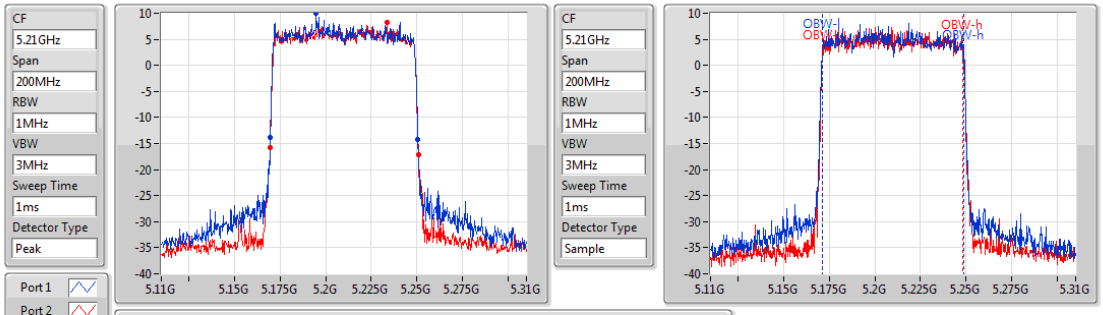
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.246M	5.776159G	5.813406G	42.692M	5.774305G	5.816997G	500k	1
36.377M	5.776159G	5.812536G	38.061M	5.775897G	5.813958G	500k	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

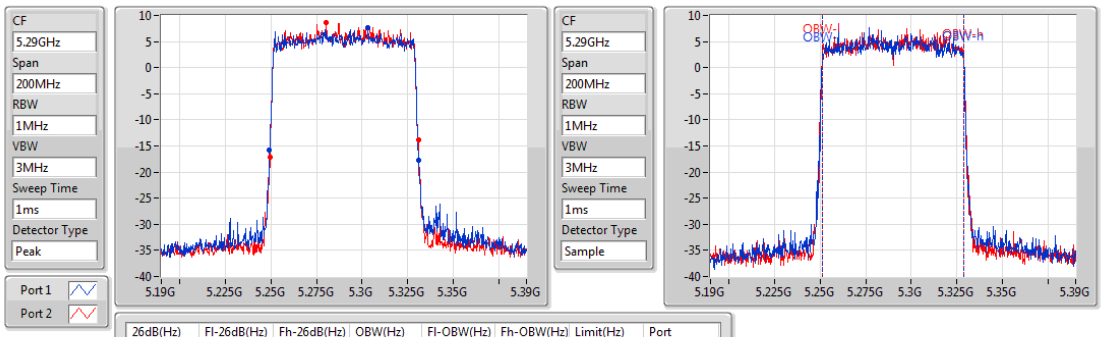
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.87M	5.16971G	5.25058G	76.99M	5.171505G	5.248495G	Inf	1
81.449M	5.16942G	5.25087G	76.7M	5.171505G	5.248205G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

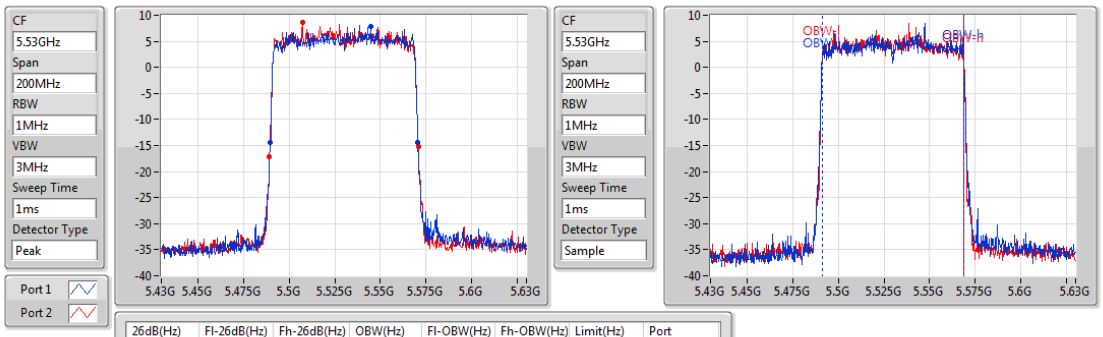
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.029M	5.24913G	5.331159G	76.99M	5.251505G	5.328495G	Inf	1
81.449M	5.24942G	5.33087G	76.99M	5.251505G	5.328495G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

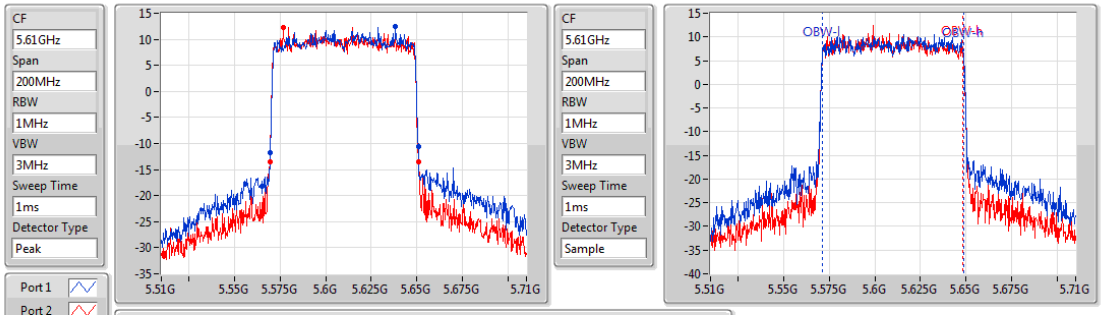
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.159M	5.48942G	5.57058G	76.99M	5.491505G	5.568495G	Inf	1
81.739M	5.48913G	5.57087G	76.99M	5.491505G	5.568495G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

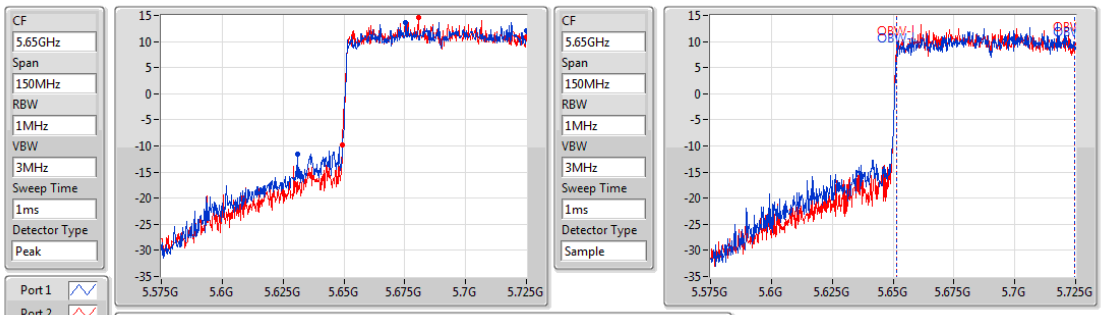
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.159M	5.56971G	5.65087G	76.99M	5.571505G	5.648495G	Inf	1
81.449M	5.56942G	5.65087G	76.7M	5.571505G	5.648205G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

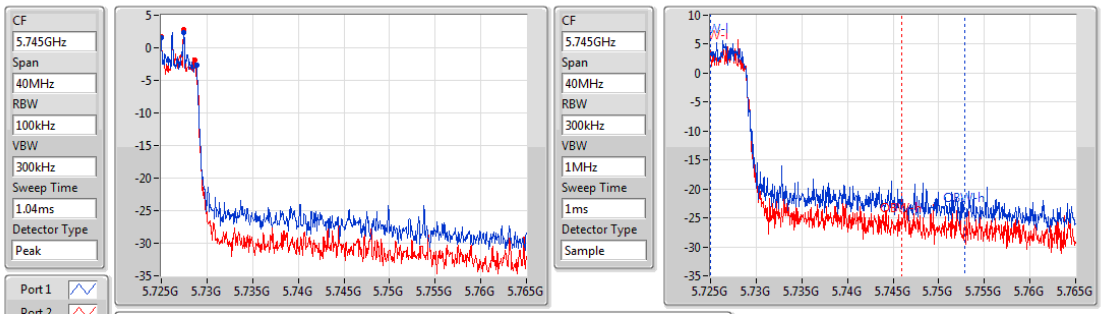
5690MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
94.13M	5.63087G	5.725G	73.155M	5.651302G	5.724457G	Inf	1
75.435M	5.649565G	5.725G	73.372M	5.651302G	5.724674G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

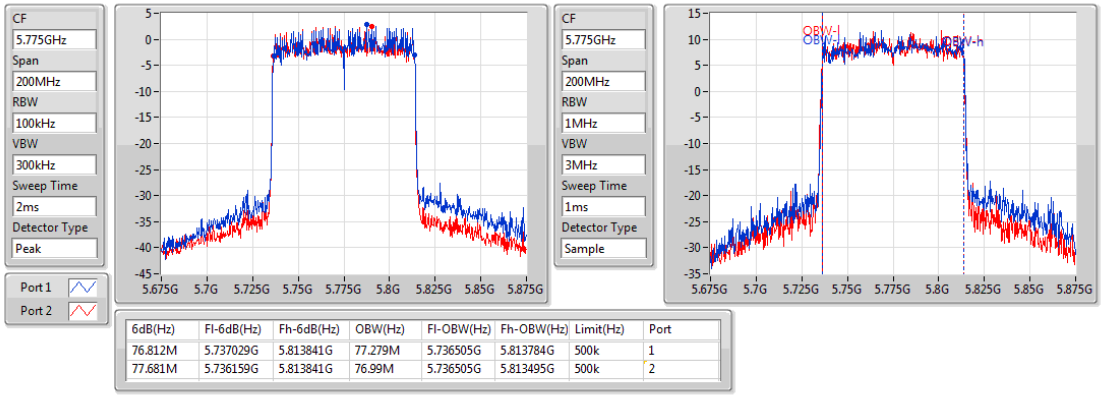
5690MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.884M	5.725G	5.728884G	27.844M	5.725029G	5.752873G	500k	1
3.71M	5.725G	5.72871G	20.897M	5.725029G	5.745926G	500k	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.812M	5.737029G	5.813841G	77.279M	5.736505G	5.813784G	500k	1
77.681M	5.736159G	5.813841G	76.99M	5.736505G	5.813495G	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

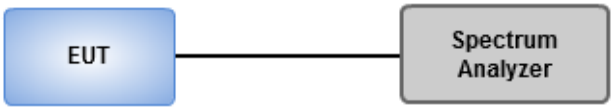
Method PM-G (Measurement using a gated RF average power meter)

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	23-25°C / 64%	Tested By	Aska Huang

Non-beamforming

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.15	0.20654	26.98	0.49888
802.11ax HEW20_Nss1,(MCS0)_2TX	23.28	0.21281	27.11	0.51404
802.11ax HEW40_Nss1,(MCS0)_2TX	22.35	0.17179	26.18	0.41495
802.11ax HEW80_Nss1,(MCS0)_2TX	18.38	0.06887	22.21	0.16634
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.14	0.20606	27.01	0.50234
802.11ax HEW20_Nss1,(MCS0)_2TX	23.32	0.21478	27.19	0.52360
802.11ax HEW40_Nss1,(MCS0)_2TX	22.14	0.16368	26.01	0.39902
802.11ax HEW80_Nss1,(MCS0)_2TX	18.23	0.06653	22.10	0.16218
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.87	0.19364	26.72	0.46989
802.11ax HEW20_Nss1,(MCS0)_2TX	23.04	0.20137	26.89	0.48865
802.11ax HEW40_Nss1,(MCS0)_2TX	23.67	0.23281	27.52	0.56494
802.11ax HEW80_Nss1,(MCS0)_2TX	23.81	0.24044	27.66	0.58345
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.63	0.36559	29.55	0.90157
802.11ax HEW20_Nss1,(MCS0)_2TX	25.81	0.38107	29.73	0.93972
802.11ax HEW40_Nss1,(MCS0)_2TX	26.52	0.44875	30.44	1.10662
802.11ax HEW80_Nss1,(MCS0)_2TX	22.03	0.15959	25.95	0.39355

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.83	18.29	18.61	21.46	24.00	25.29	30.00
5200MHz	Pass	3.83	19.93	20.34	23.15	24.00	26.98	30.00
5240MHz	Pass	3.83	19.67	19.98	22.84	24.00	26.67	30.00
5260MHz	Pass	3.87	20.01	20.25	23.14	24.00	27.01	30.00
5300MHz	Pass	3.87	19.95	19.88	22.93	24.00	26.80	30.00
5320MHz	Pass	3.87	18.13	18.56	21.36	24.00	25.23	30.00
5500MHz	Pass	3.85	18.65	18.75	21.71	24.00	25.56	30.00
5580MHz	Pass	3.85	19.78	19.93	22.87	24.00	26.72	30.00
5700MHz	Pass	3.85	16.33	16.01	19.18	24.00	23.03	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.85	18.94	18.95	21.96	22.91	25.81	28.91
5720MHz Straddle 5.725-5.85GHz	Pass	3.92	12.95	12.87	15.92	30.00	19.84	36.00
5745MHz	Pass	3.92	22.28	22.53	25.42	30.00	29.34	36.00
5785MHz	Pass	3.92	22.23	22.38	25.32	30.00	29.24	36.00
5825MHz	Pass	3.92	22.55	22.68	25.63	30.00	29.55	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.83	17.84	18.35	21.11	24.00	24.94	30.00
5200MHz	Pass	3.83	20.19	20.35	23.28	24.00	27.11	30.00
5240MHz	Pass	3.83	19.87	20.03	22.96	24.00	26.79	30.00
5260MHz	Pass	3.87	20.05	20.55	23.32	24.00	27.19	30.00
5300MHz	Pass	3.87	19.95	20.13	23.05	24.00	26.92	30.00
5320MHz	Pass	3.87	17.96	18.03	21.01	24.00	24.88	30.00
5500MHz	Pass	3.85	17.85	18.23	21.05	24.00	24.90	30.00
5580MHz	Pass	3.85	19.93	20.13	23.04	24.00	26.89	30.00
5700MHz	Pass	3.85	15.89	15.72	18.82	24.00	22.67	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.85	19.15	19.13	22.15	22.97	26.00	28.97
5720MHz Straddle 5.725-5.85GHz	Pass	3.92	14.2	14.12	17.17	30.00	21.09	36.00
5745MHz	Pass	3.92	22.49	22.59	25.55	30.00	29.47	36.00
5785MHz	Pass	3.92	22.47	22.53	25.51	30.00	29.43	36.00
5825MHz	Pass	3.92	22.68	22.92	25.81	30.00	29.73	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.83	16.44	16.59	19.53	24.00	23.36	30.00
5230MHz	Pass	3.83	19.52	19.16	22.35	24.00	26.18	30.00
5270MHz	Pass	3.87	18.92	19.33	22.14	24.00	26.01	30.00
5310MHz	Pass	3.87	17.16	17.06	20.12	24.00	23.99	30.00
5510MHz	Pass	3.85	16.09	16.29	19.20	24.00	23.05	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	3.85	20.33	20.45	23.40	24.00	27.25	30.00
5670MHz	Pass	3.85	18.04	17.89	20.98	24.00	24.83	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.85	20.59	20.73	23.67	24.00	27.52	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.92	11.04	11	14.03	30.00	17.95	36.00
5755MHz	Pass	3.92	23.41	23.54	26.49	30.00	30.41	36.00
5795MHz	Pass	3.92	23.43	23.58	26.52	30.00	30.44	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.83	15.56	15.17	18.38	24.00	22.21	30.00
5290MHz	Pass	3.87	15.11	15.33	18.23	24.00	22.10	30.00
5530MHz	Pass	3.85	15.19	15.03	18.12	24.00	21.97	30.00
5610MHz	Pass	3.85	19.17	19.05	22.12	24.00	25.97	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.85	20.77	20.82	23.81	24.00	27.66	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.92	7.49	7.02	10.27	30.00	14.19	36.00
5775MHz	Pass	3.92	19.01	19.03	22.03	30.00	25.95	36.00

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

Beamforming

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.27	0.10641	27.05	0.50699
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.34	0.08590	26.12	0.40926
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	15.37	0.03443	22.15	0.16406
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.31	0.10740	27.18	0.52240
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.13	0.08185	26.00	0.39811
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	15.22	0.03327	22.09	0.16181
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.03	0.10069	26.87	0.48641
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.67	0.11668	27.51	0.56364
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.80	0.12023	27.64	0.58076
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.80	0.19055	29.52	0.89536
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.51	0.22439	30.23	1.05439
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.02	0.07980	25.74	0.37497

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)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.78	14.83	15.34	18.10	23.22	24.88	30.00
5200MHz	Pass	6.78	17.18	17.34	20.27	23.22	27.05	30.00
5240MHz	Pass	6.78	16.86	17.02	19.95	23.22	26.73	30.00
5260MHz	Pass	6.87	17.04	17.54	20.31	23.13	27.18	30.00
5300MHz	Pass	6.87	16.94	17.12	20.04	23.13	26.91	30.00
5320MHz	Pass	6.87	14.95	15.02	18.00	23.13	24.87	30.00
5500MHz	Pass	6.84	14.84	15.22	18.04	23.16	24.88	30.00
5580MHz	Pass	6.84	16.92	17.12	20.03	23.16	26.87	30.00
5700MHz	Pass	6.84	12.88	12.71	15.81	23.16	22.65	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.84	16.14	16.12	19.14	23.16	25.98	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.72	11.19	11.11	14.16	29.28	20.88	36.00
5745MHz	Pass	6.72	19.48	19.58	22.54	29.28	29.26	36.00
5785MHz	Pass	6.72	19.46	19.52	22.50	29.28	29.22	36.00
5825MHz	Pass	6.72	19.67	19.91	22.80	29.28	29.52	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.78	13.43	13.58	16.52	23.22	23.30	30.00
5230MHz	Pass	6.78	16.51	16.15	19.34	23.22	26.12	30.00
5270MHz	Pass	6.87	15.91	16.32	19.13	23.13	26.00	30.00
5310MHz	Pass	6.87	14.15	14.05	17.11	23.13	23.98	30.00
5510MHz	Pass	6.84	13.08	13.28	16.19	23.16	23.03	30.00
5590MHz	Pass	6.84	17.32	17.44	20.39	23.16	27.23	30.00
5670MHz	Pass	6.84	15.03	14.88	17.97	23.16	24.81	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.84	17.58	17.73	20.67	23.16	27.51	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.72	8.03	7.99	11.02	29.28	17.74	36.00
5755MHz	Pass	6.72	20.4	20.53	23.48	29.28	30.20	36.00
5795MHz	Pass	6.72	20.42	20.57	23.51	29.28	30.23	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.78	12.55	12.16	15.37	23.22	22.15	30.00
5290MHz	Pass	6.87	12.10	12.32	15.22	23.13	22.09	30.00
5530MHz	Pass	6.84	12.18	12.02	15.11	23.16	21.95	30.00
5610MHz	Pass	6.84	16.16	16.04	19.11	23.16	25.95	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.84	17.76	17.81	20.80	23.16	27.64	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.72	4.48	4.01	7.26	29.28	13.98	36.00
5775MHz	Pass	6.72	16	16.02	19.02	29.28	25.74	36.00

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

Note:
For 5.15 ~ 5.25 GHz

DG = Directional Gain=10 * log((10$^{3.7/20}$+10$^{3.83/20}$)^2/2=6.78 dBi

Limit shall be reduced to 24 dBm – (6.78 dBi – 6 dBi) = 23.22 dBm

For 5.25 ~ 5.35 GHz

DG = Directional Gain=10 * log((10$^{3.87/20}$+10$^{3.85/20}$)^2/2=6.87 dBi

Limit shall be reduced to 24 dBm – (6.87 dBi – 6 dBi) = 23.13 dBm

For 5.47 ~ 5.725 GHz

DG = Directional Gain=10 * log((10$^{3.8/20}$+10$^{3.85/20}$)^2/2=6.84 dBi

Limit shall be reduced to 24 dBm – (6.84 dBi – 6 dBi) = 23.16 dBm

For 5.725 ~ 5.85 GHz

DG = Directional Gain=10 * log((10$^{3.5/20}$+10$^{3.92/20}$)^2/2=6.72 dBi

Limit shall be reduced to 30 dBm – (6.72 dBi – 6 dBi) = 29.28 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.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

For 5725 ~ 5850 MHz

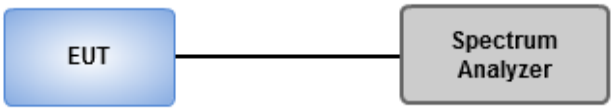
Duty cycle ≥ 98 %

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

Duty cycle < 98 %

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	23-25°C / 64%	Tested By	Aska Huang

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.01	16.79
802.11ax HEW20_Nss1,(MCS0)_2TX	9.92	16.70
802.11ax HEW40_Nss1,(MCS0)_2TX	6.34	13.12
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.51	6.27
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.08	16.95
802.11ax HEW20_Nss1,(MCS0)_2TX	9.88	16.75
802.11ax HEW40_Nss1,(MCS0)_2TX	5.92	12.79
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.91	5.96
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.03	16.87
802.11ax HEW20_Nss1,(MCS0)_2TX	9.87	16.71
802.11ax HEW40_Nss1,(MCS0)_2TX	7.72	14.56
802.11ax HEW80_Nss1,(MCS0)_2TX	4.67	11.51
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.97	17.69
802.11ax HEW20_Nss1,(MCS0)_2TX	10.64	17.36
802.11ax HEW40_Nss1,(MCS0)_2TX	8.64	15.36
802.11ax HEW80_Nss1,(MCS0)_2TX	1.9	8.62

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.78	6.81	7.19	10.01	10.22	16.79	17.00
5200MHz	Pass	6.78	6.87	7.25	9.96	10.22	16.74	17.00
5240MHz	Pass	6.78	6.76	7.02	9.80	10.22	16.58	17.00
5260MHz	Pass	6.87	6.94	7.38	10.08	10.13	16.95	17.00
5300MHz	Pass	6.87	6.86	7.29	9.96	10.13	16.83	17.00
5320MHz	Pass	6.87	6.53	7.16	9.78	10.13	16.65	17.00
5500MHz	Pass	6.84	6.96	7.35	10.03	10.16	16.87	17.00
5580MHz	Pass	6.84	6.96	7.08	9.90	10.16	16.74	17.00
5700MHz	Pass	6.84	3.4	3.11	6.16	10.16	13.00	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.84	6.94	6.9	9.80	10.16	16.64	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.72	5.41	5.1	8.20	29.28	14.92	36.00
5745MHz	Pass	6.72	7.51	7.91	10.66	29.28	17.38	36.00
5785MHz	Pass	6.72	7.58	7.66	10.60	29.28	17.32	36.00
5825MHz	Pass	6.72	7.87	8.14	10.97	29.28	17.69	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.78	4.36	4.92	7.57	10.22	14.35	17.00
5200MHz	Pass	6.78	6.86	7.07	9.92	10.22	16.70	17.00
5240MHz	Pass	6.78	6.79	6.78	9.74	10.22	16.52	17.00
5260MHz	Pass	6.87	6.77	7.14	9.88	10.13	16.75	17.00
5300MHz	Pass	6.87	6.59	6.8	9.68	10.13	16.55	17.00
5320MHz	Pass	6.87	4.69	4.75	7.66	10.13	14.53	17.00
5500MHz	Pass	6.84	4.54	4.70	7.49	10.16	14.33	17.00
5580MHz	Pass	6.84	6.79	7.06	9.85	10.16	16.69	17.00
5700MHz	Pass	6.84	2.61	2.2	5.28	10.16	12.12	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.84	7	6.96	9.87	10.16	16.71	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.72	5.09	5.08	8.06	29.28	14.78	36.00
5745MHz	Pass	6.72	7.54	7.69	10.54	29.28	17.26	36.00
5785MHz	Pass	6.72	7.36	7.5	10.30	29.28	17.02	36.00
5825MHz	Pass	6.72	7.58	7.87	10.64	29.28	17.36	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.78	0.21	0.27	3.24	10.22	10.02	17.00
5230MHz	Pass	6.78	3.55	3.19	6.34	10.22	13.12	17.00
5270MHz	Pass	6.87	2.87	3.22	5.92	10.13	12.79	17.00
5310MHz	Pass	6.87	0.76	0.79	3.71	10.13	10.58	17.00
5510MHz	Pass	6.84	-0.16	0.02	2.74	10.16	9.58	17.00
5590MHz	Pass	6.84	4.51	4.45	7.33	10.16	14.17	17.00

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)
5670MHz	Pass	6.84	1.66	1.64	4.50	10.16	11.34	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.84	4.79	4.77	7.72	10.16	14.56	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.72	2.64	2.76	5.65	29.28	12.37	36.00
5755MHz	Pass	6.72	5.67	5.81	8.64	29.28	15.36	36.00
5795MHz	Pass	6.72	5.5	5.83	8.61	29.28	15.33	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.78	-3.28	-3.61	-0.51	10.22	6.27	17.00
5290MHz	Pass	6.87	-4.01	-3.75	-0.91	10.13	5.96	17.00
5530MHz	Pass	6.84	-4.05	-3.86	-1.01	10.16	5.83	17.00
5610MHz	Pass	6.84	0.3	-0.06	3.07	10.16	9.91	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.84	1.59	1.73	4.67	10.16	11.51	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.72	-0.82	-1.2	1.90	29.28	8.62	36.00
5775MHz	Pass	6.72	-1.09	-1.23	1.82	29.28	8.54	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 X power density;

Note:
For 5.15 ~ 5.25 GHz

DG = Directional Gain=10 * log($(10^{3.7/20}+10^{3.83/20})^2/2$=6.78 dBi

Limit shall be reduced to 11 dBm – (6.78 dBi – 6 dBi) = 10.22 dBm

For 5.25 ~ 5.35 GHz

DG = Directional Gain=10 * log($(10^{3.87/20}+10^{3.85/20})^2/2$=6.87 dBi

Limit shall be reduced to 11 dBm – (6.87 dBi – 6 dBi) = 10.13 dBm

For 5.47 ~ 5.725 GHz

DG = Directional Gain=10 * log($(10^{3.8/20}+10^{3.85/20})^2/2$=6.84 dBi

Limit shall be reduced to 11 dBm – (6.84 dBi – 6 dBi) = 10.16 dBm

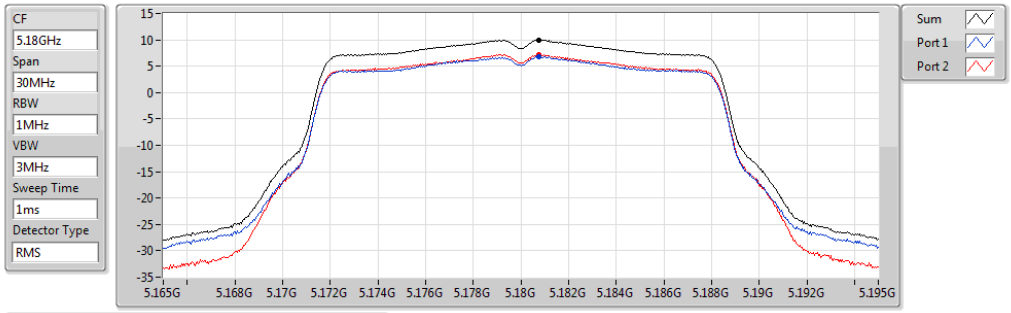
For 5.725 ~ 5.85 GHz

DG = Directional Gain=10 * log($(10^{3.5/20}+10^{3.92/20})^2/2$=6.72 dBi

Limit shall be reduced to 30 dBm – (6.72 dBi – 6 dBi) = 29.28 dBm

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

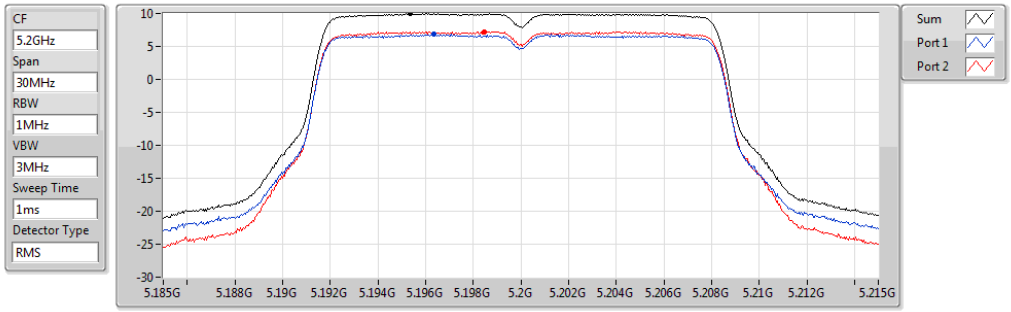
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.01	10.01	6.81	7.19

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

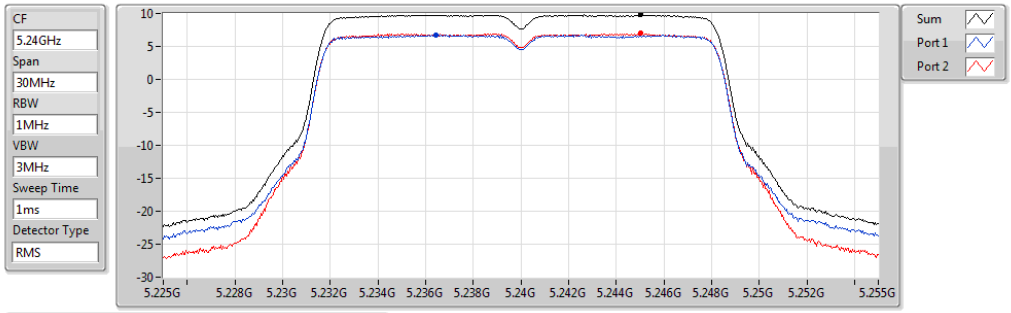
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.96	9.96	6.87	7.25

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

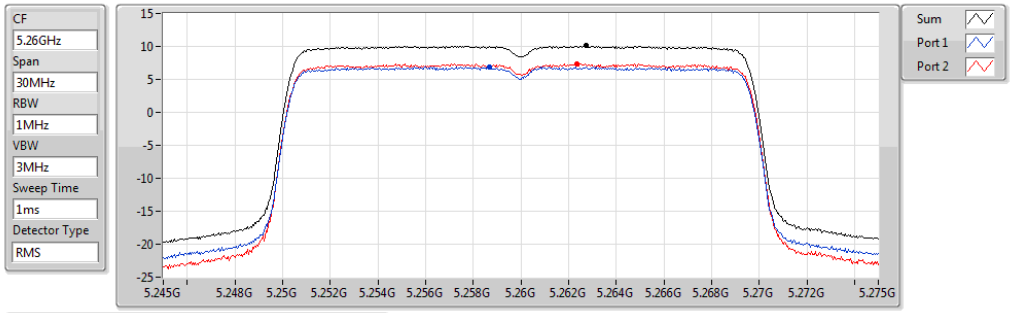
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.80	9.80	6.76	7.02

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

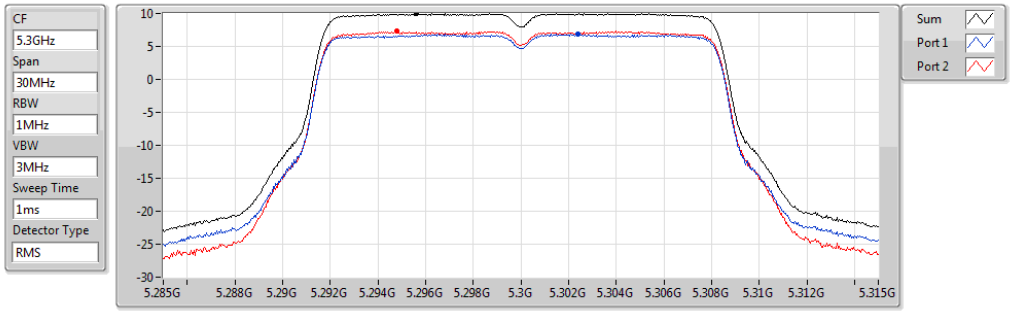
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.08	10.08	6.94	7.38

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

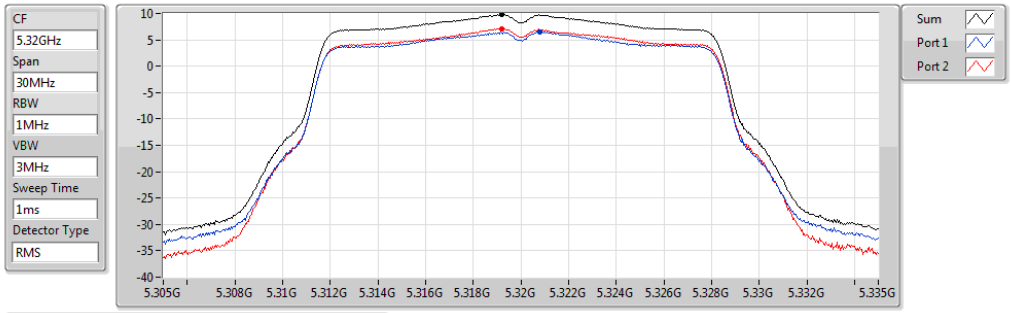
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.96	9.96	6.86	7.29

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

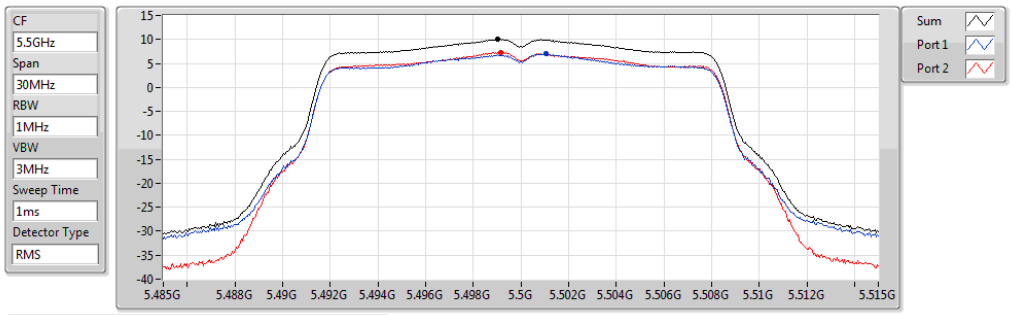
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.78	9.78	6.53	7.16

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

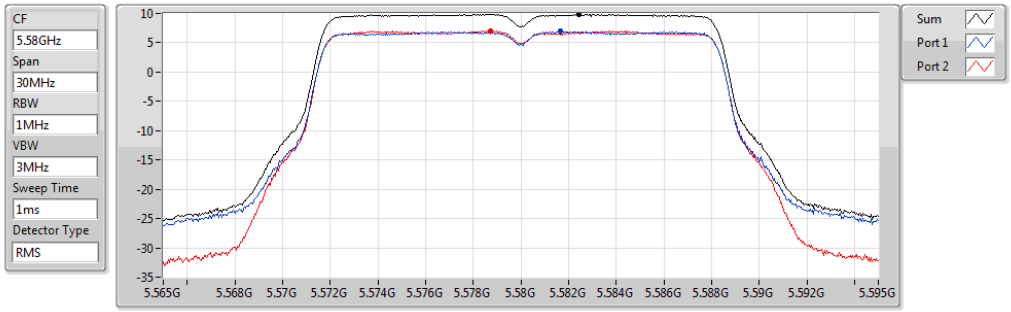
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.03	10.03	6.96	7.35

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

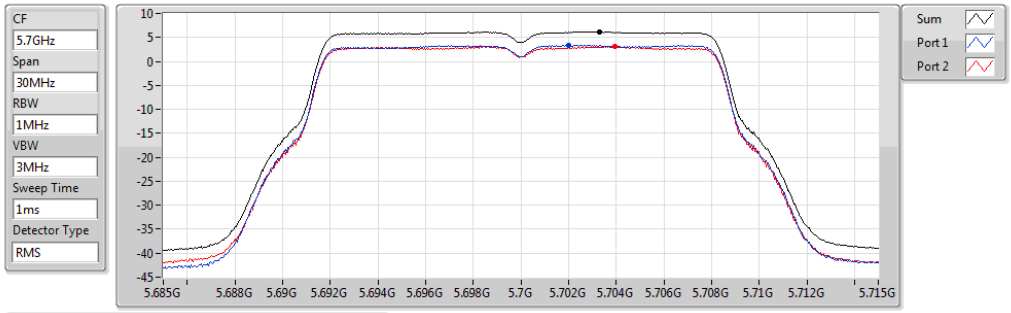
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.90	9.90	6.96	7.08

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

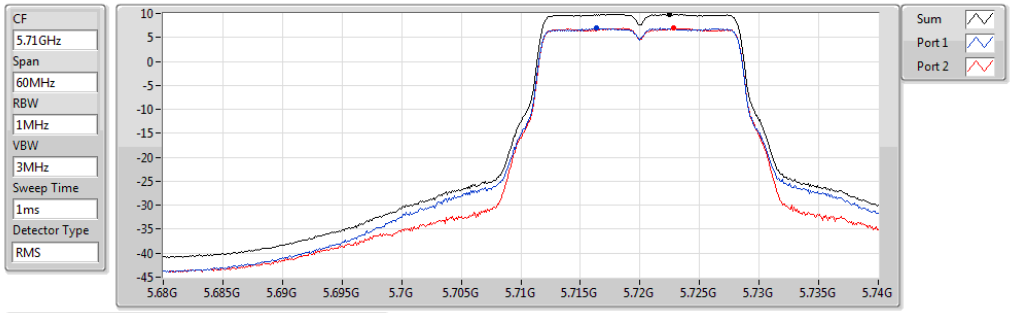
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.16	6.16	3.40	3.11

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

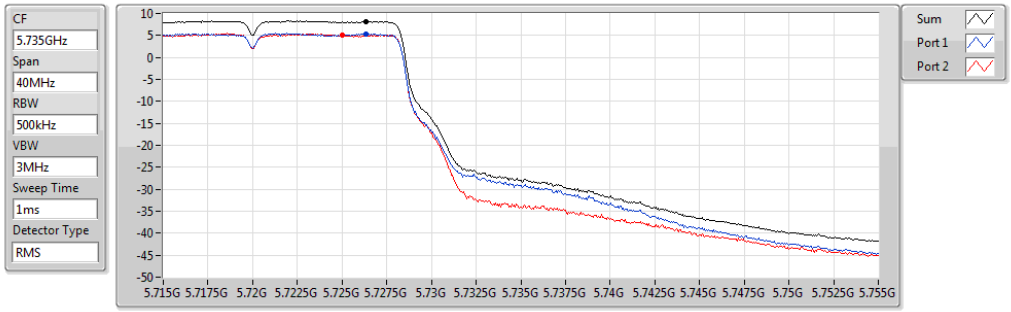
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.80	9.80	6.94	6.90

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

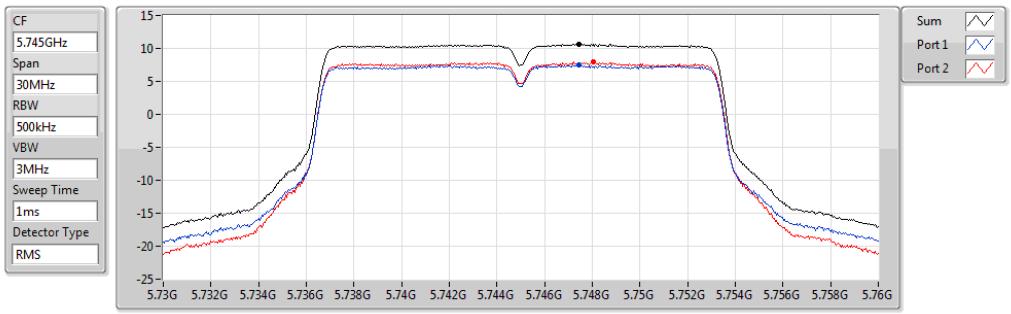
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.20	8.20	5.41	5.10

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

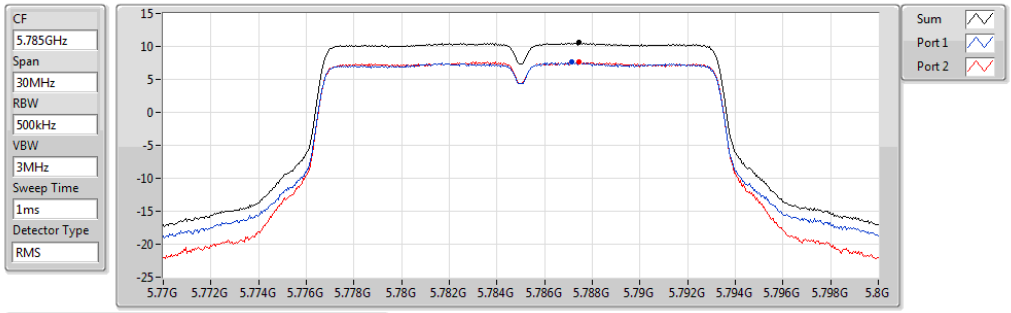
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.66	10.66	7.51	7.91

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

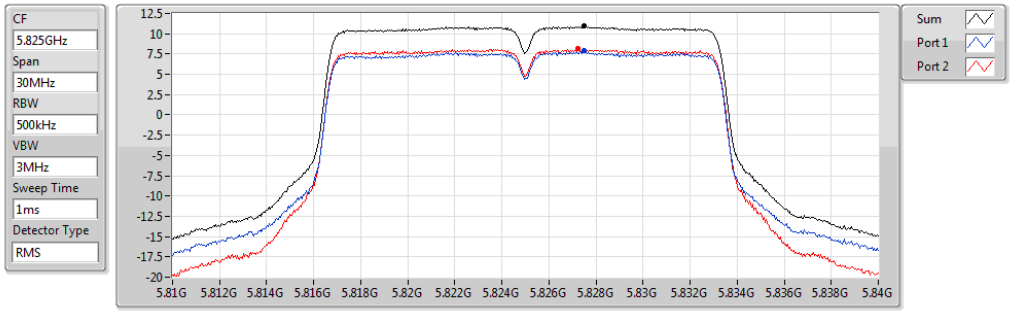
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.60	10.60	7.58	7.66

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

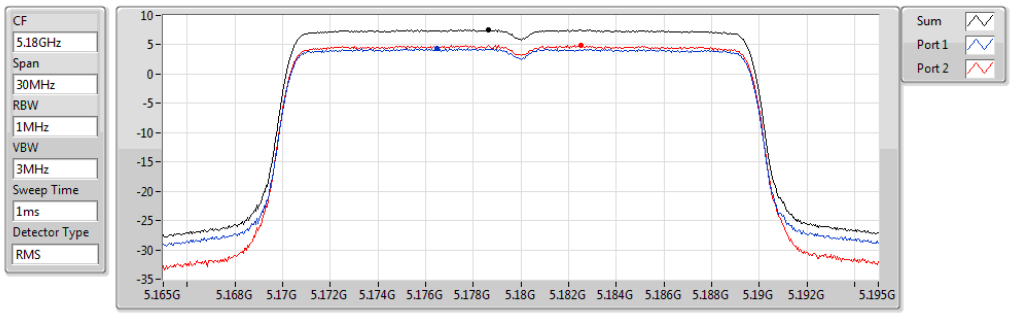
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.97	10.97	7.87	8.14

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

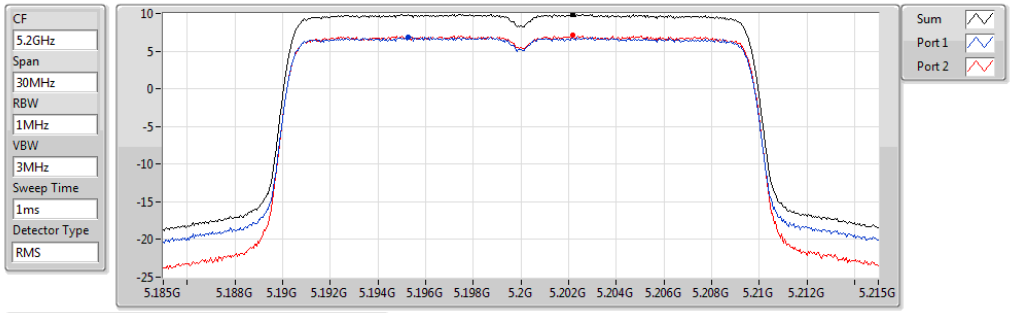
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.57	7.57	4.36	4.92

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

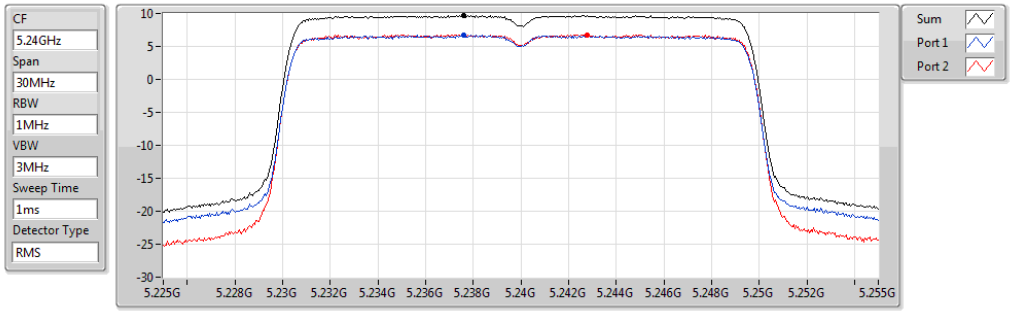
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.92	9.92	6.86	7.07

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

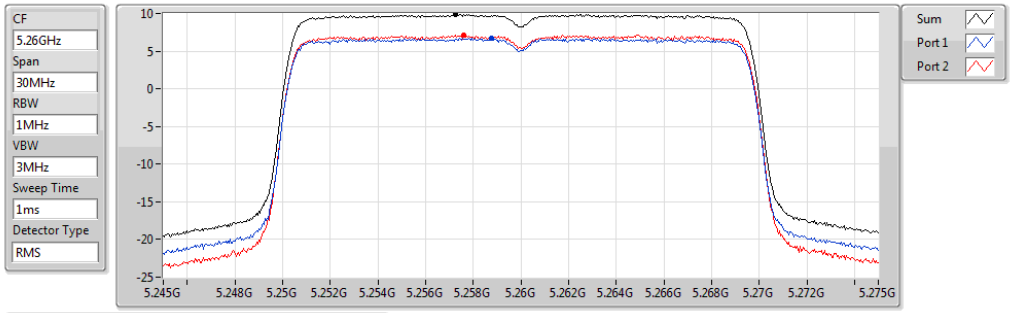
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.74	9.74	6.79	6.78

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

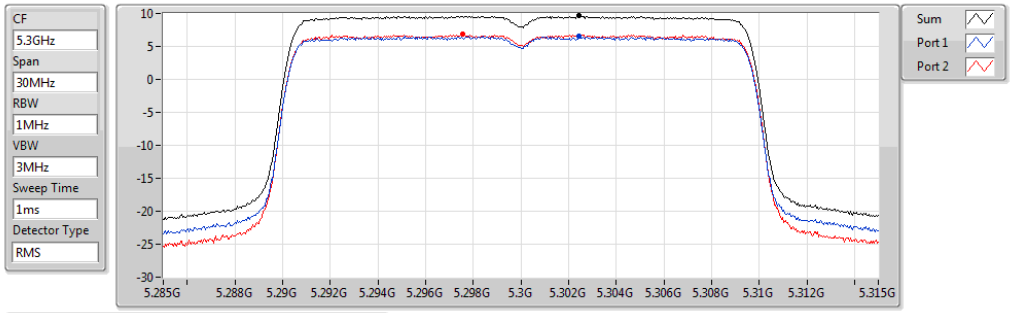
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.88	9.88	6.77	7.14

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

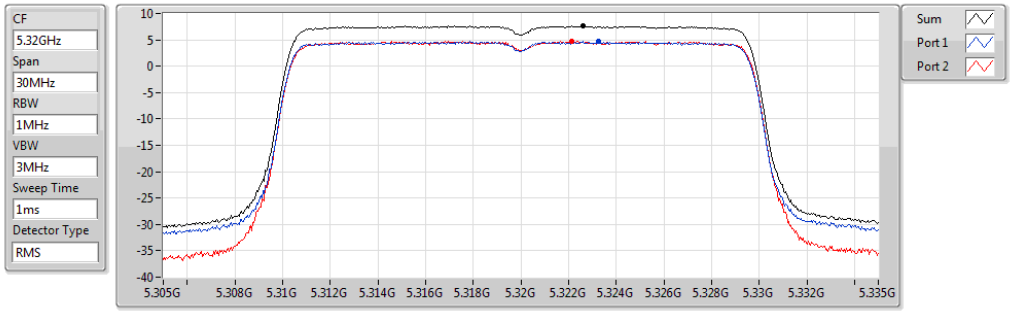
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.68	9.68	6.59	6.80

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

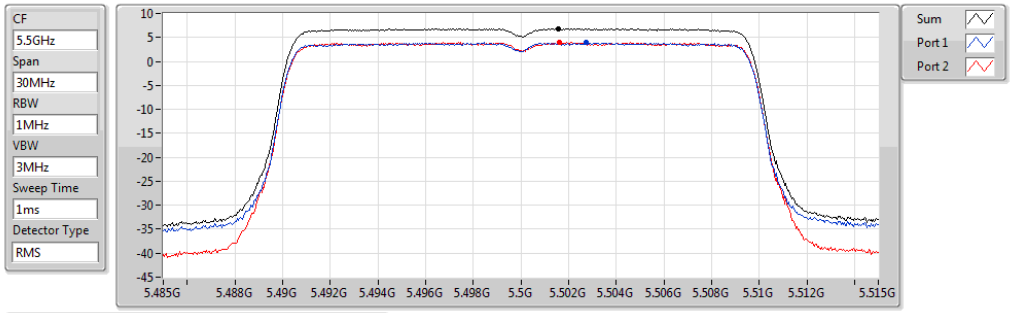
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.66	7.66	4.69	4.75

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

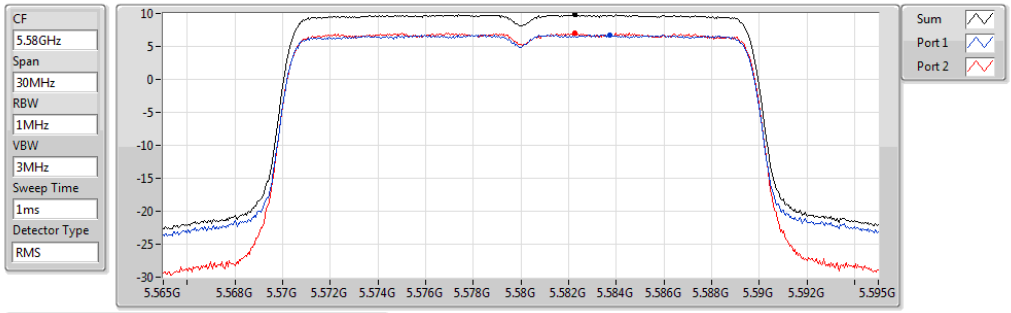
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.85	6.85	3.89	3.97

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

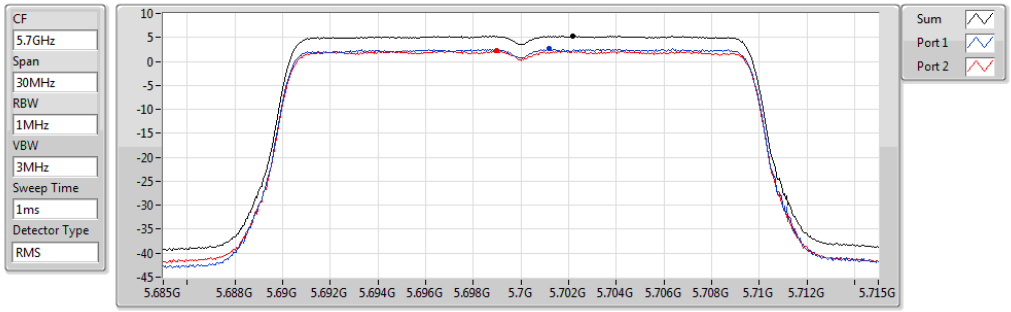
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.85	9.85	6.79	7.06

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

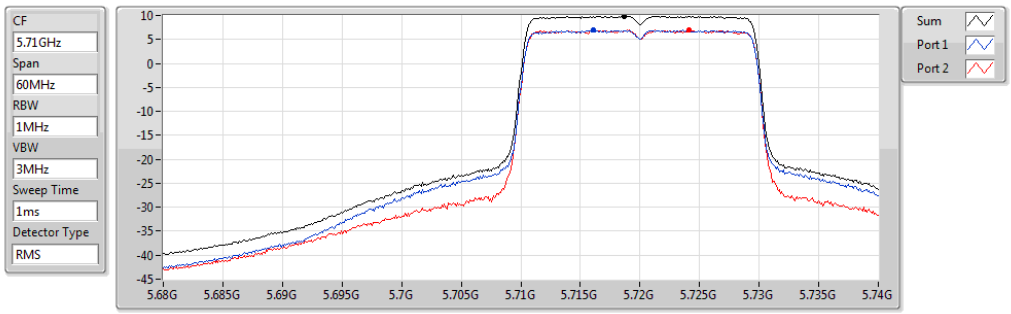
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.28	5.28	2.61	2.20

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

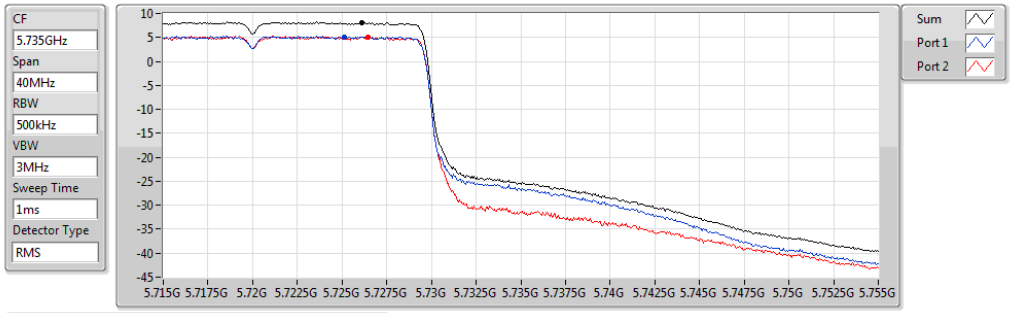
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.87	9.87	7.00	6.96

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

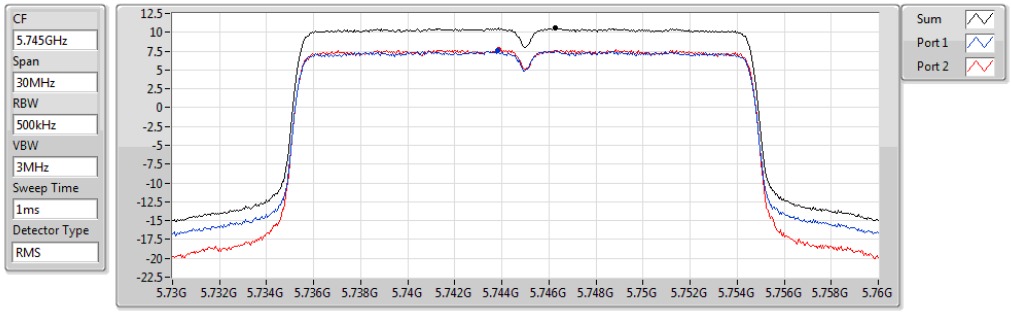
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.06	8.06	5.09	5.08

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

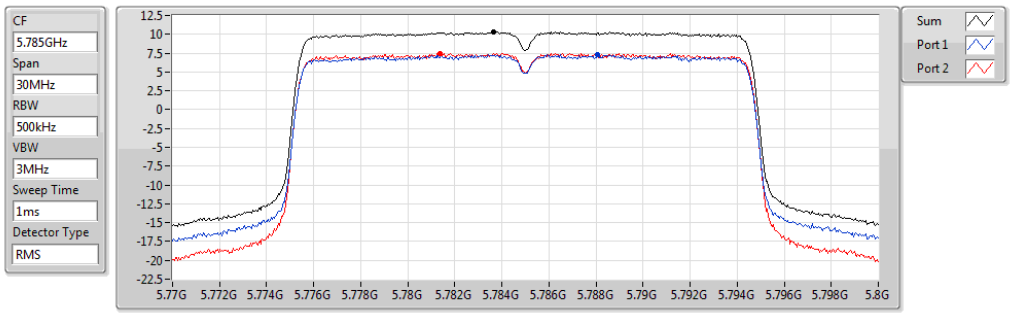
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.54	10.54	7.54	7.69

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

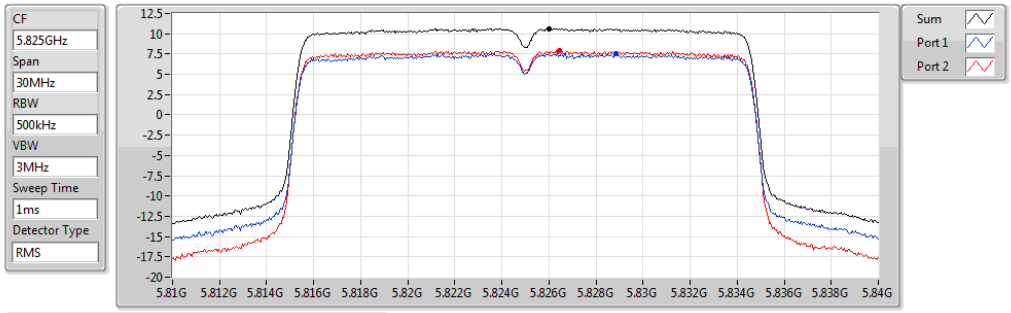
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.30	10.30	7.36	7.50

802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

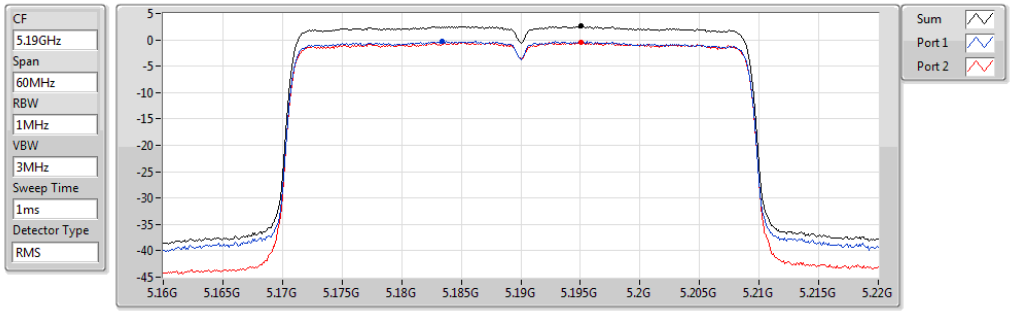
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.64	10.64	7.58	7.87

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

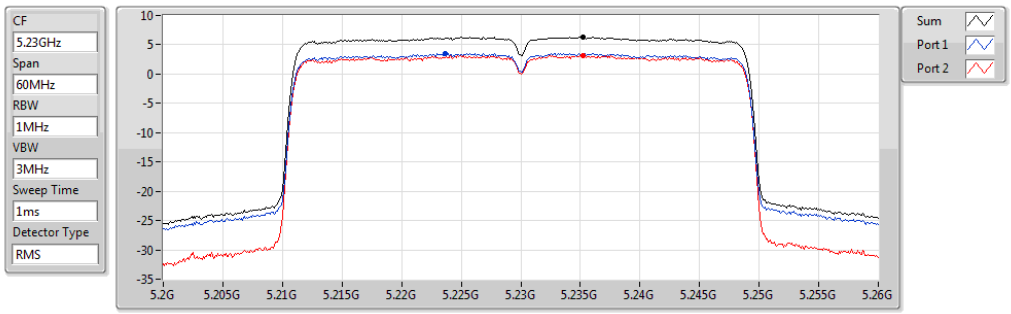
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.66	2.66	-0.21	-0.43

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

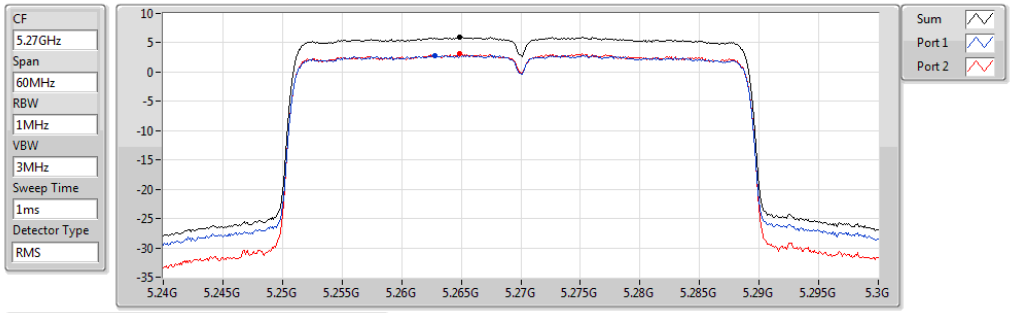
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.34	6.34	3.55	3.19

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

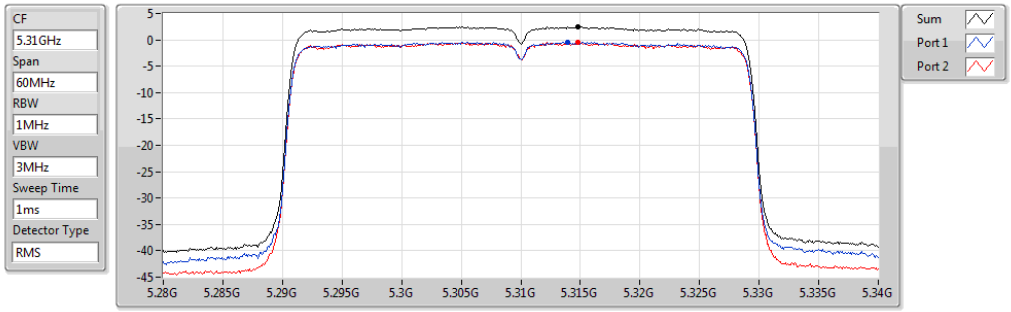
5270MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.92	5.92	2.87	3.22

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

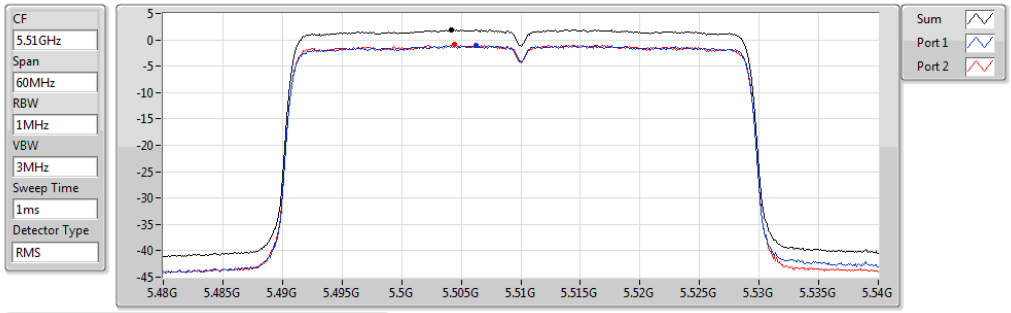
5310MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.51	2.51	-0.41	-0.44

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

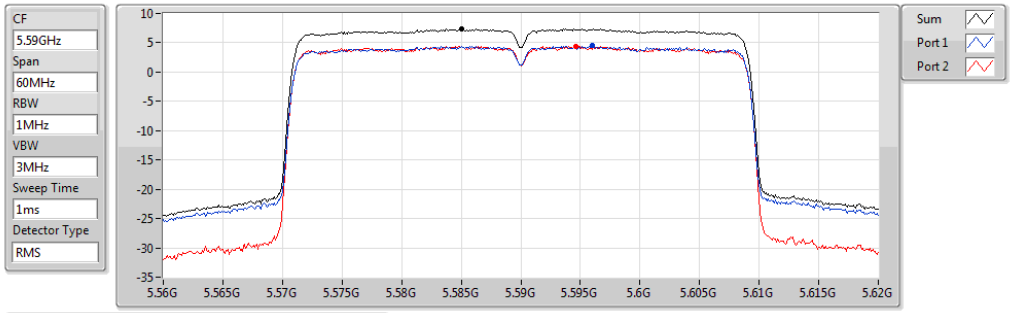
5510MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.91	1.91	-1.02	-0.95

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

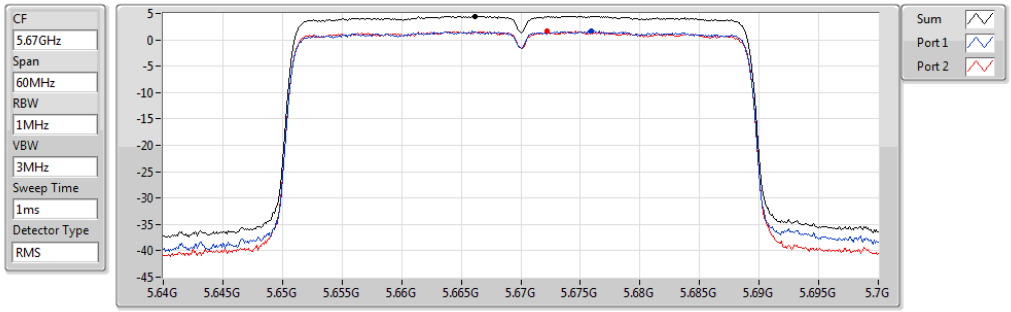
5590MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	4.51	4.45

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

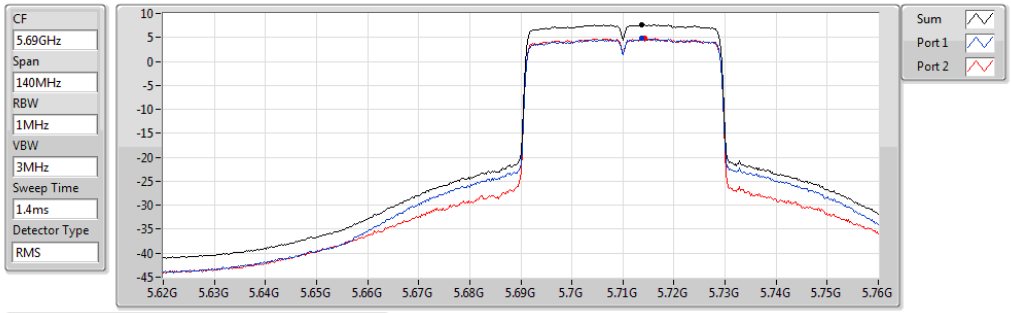
5670MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.50	4.50	1.66	1.64

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

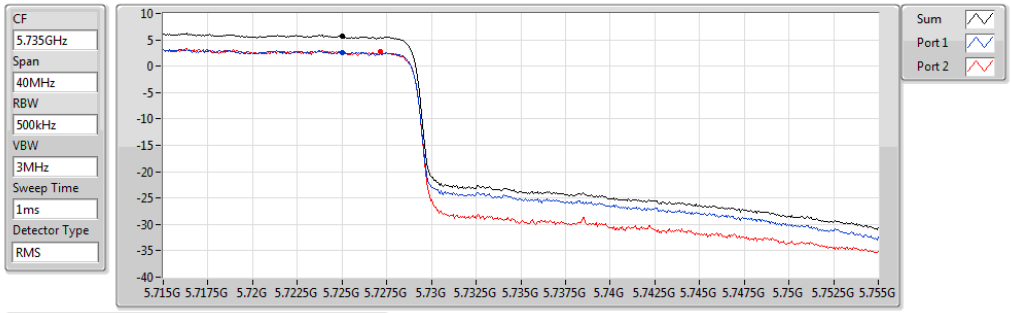
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.72	7.72	4.79	4.77

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

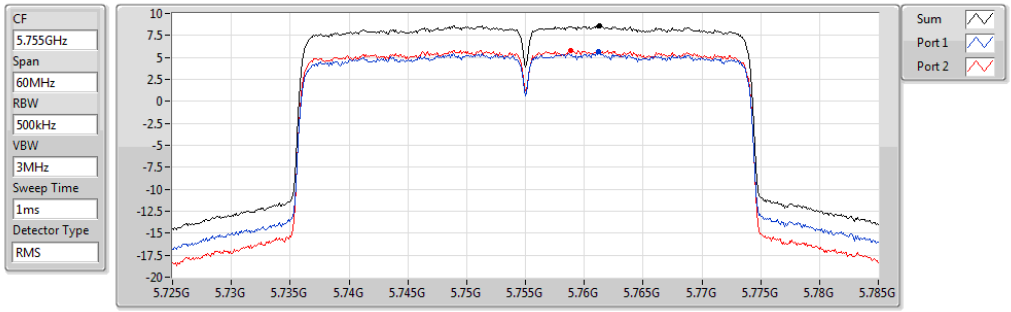
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.65	5.65	2.64	2.76

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

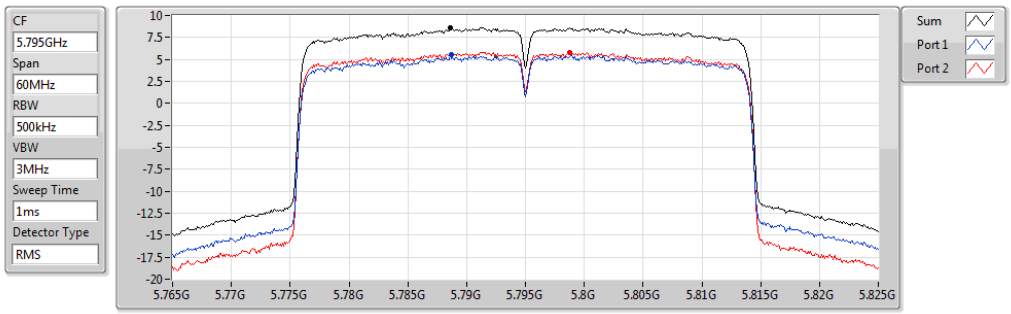
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.64	8.64	5.67	5.81

802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

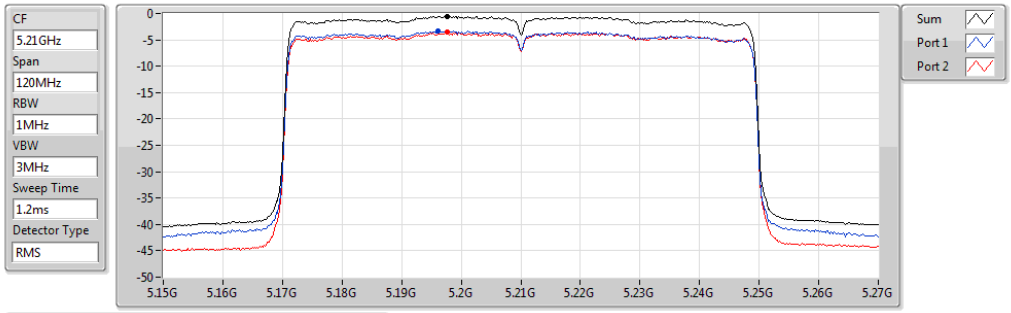
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.61	8.61	5.50	5.83

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

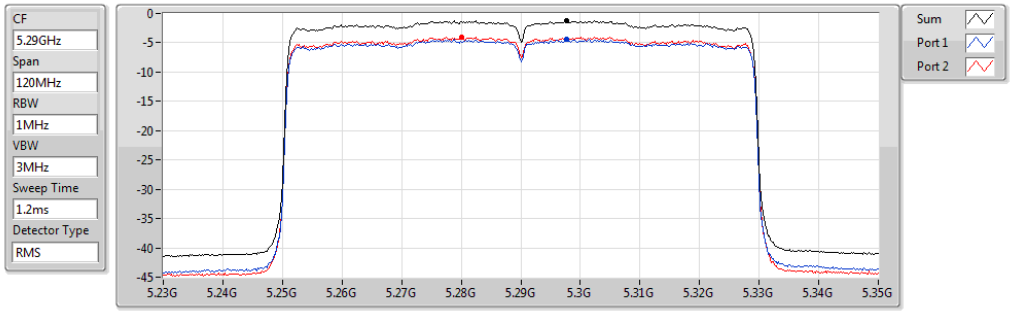
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.51	-0.51	-3.28	-3.61

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

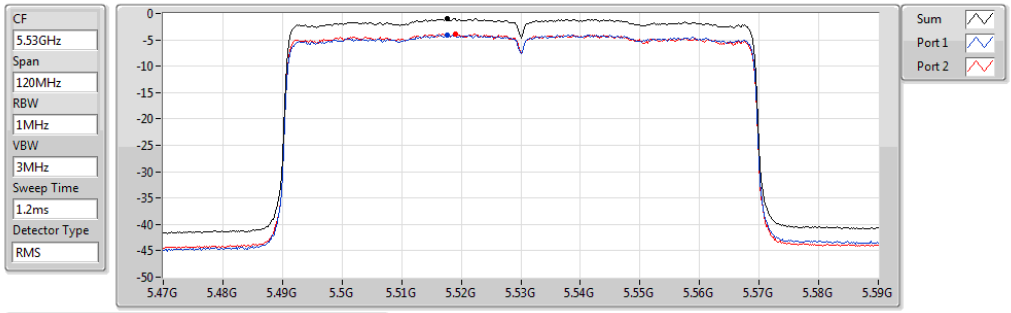
5290MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.24	-1.24	-4.38	-4.07

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

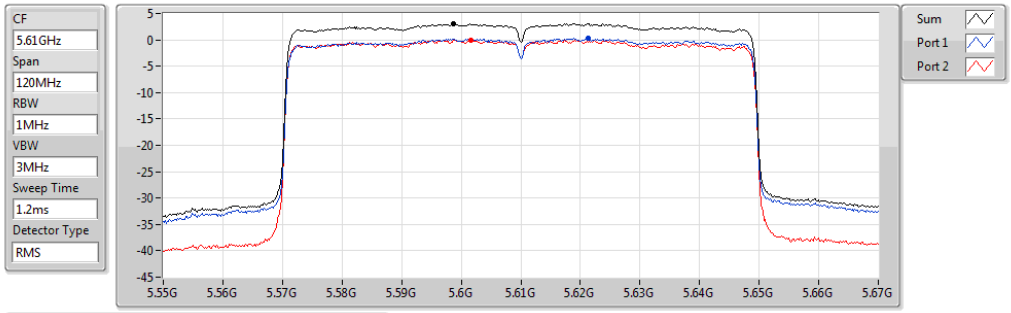
5530MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.01	-1.01	-4.05	-3.86

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

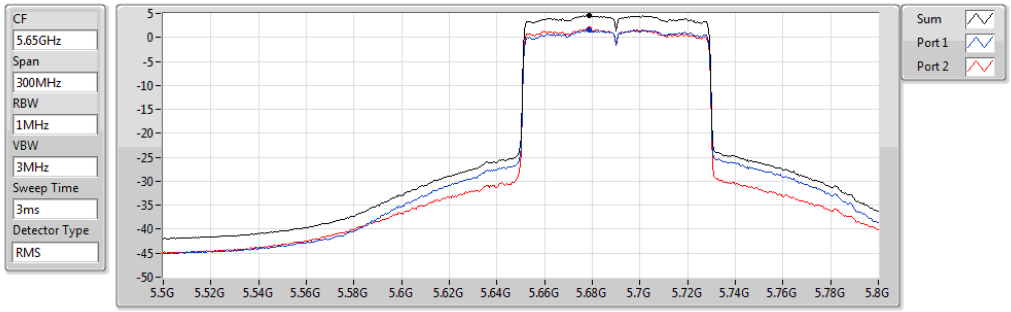
5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.07	3.07	0.30	-0.06

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

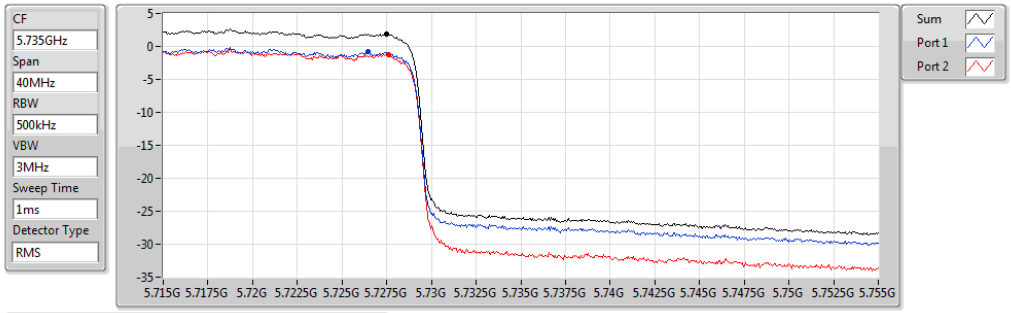
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.67	4.67	1.59	1.73

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

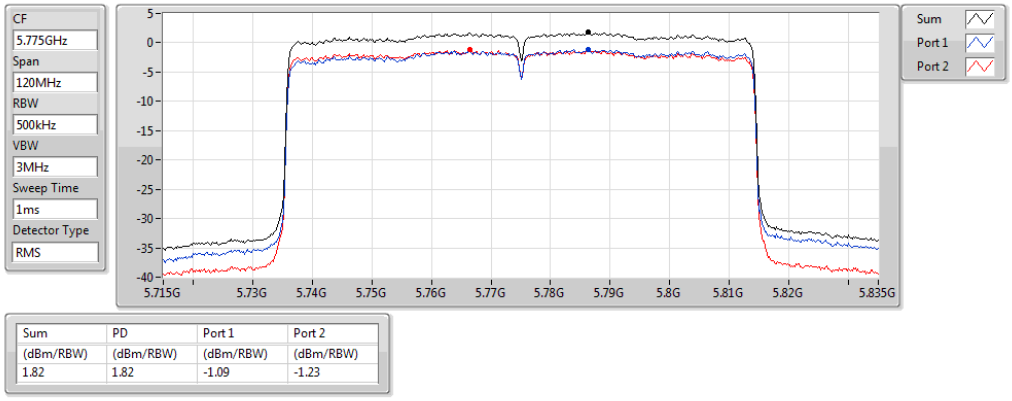
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.90	1.90	-0.82	-1.20

802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.82	1.82	-1.09	-1.23

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

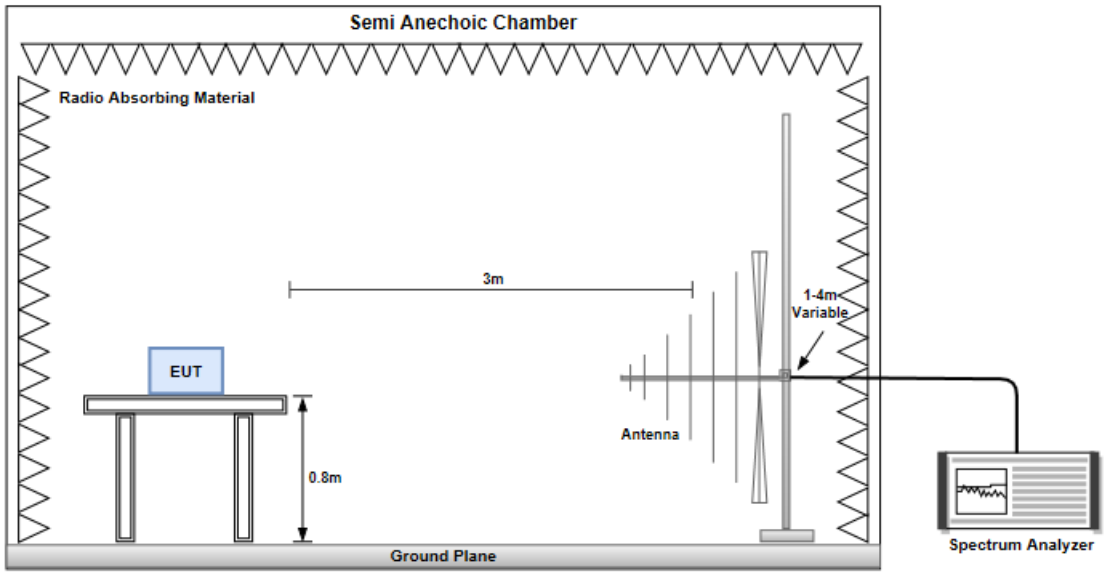
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

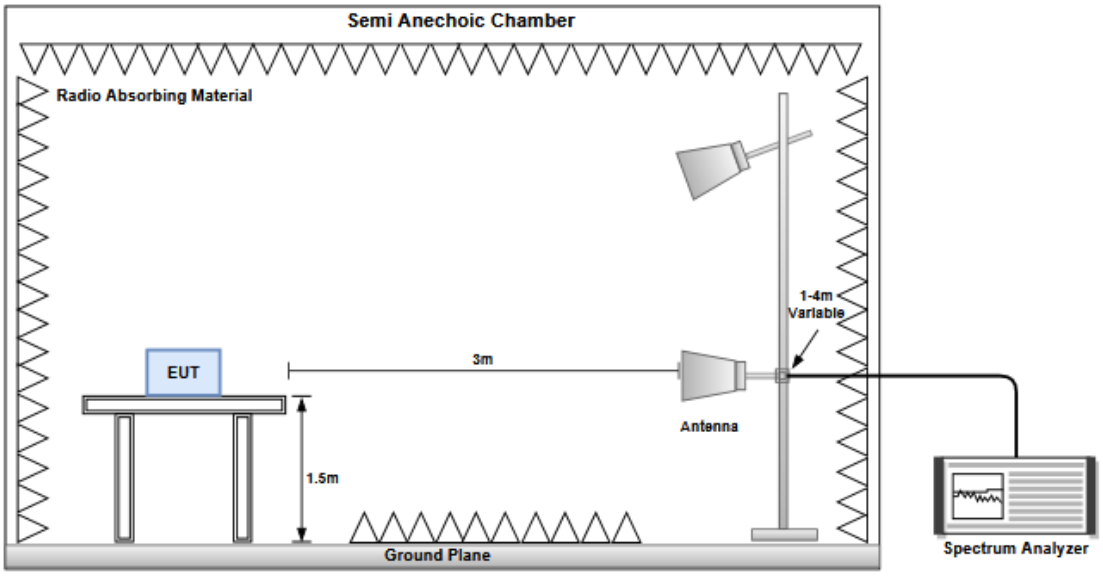
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



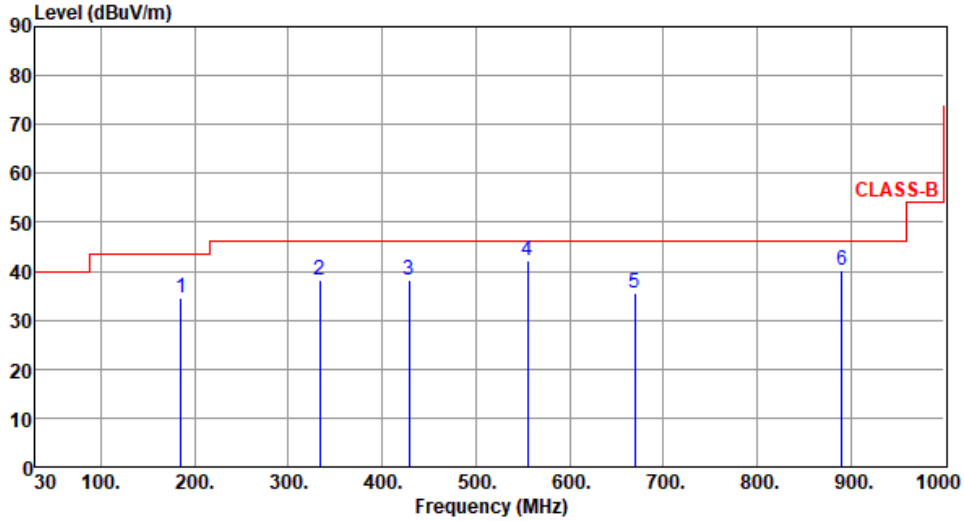
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	ax HE80	Test Freq. (MHz)	5690
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

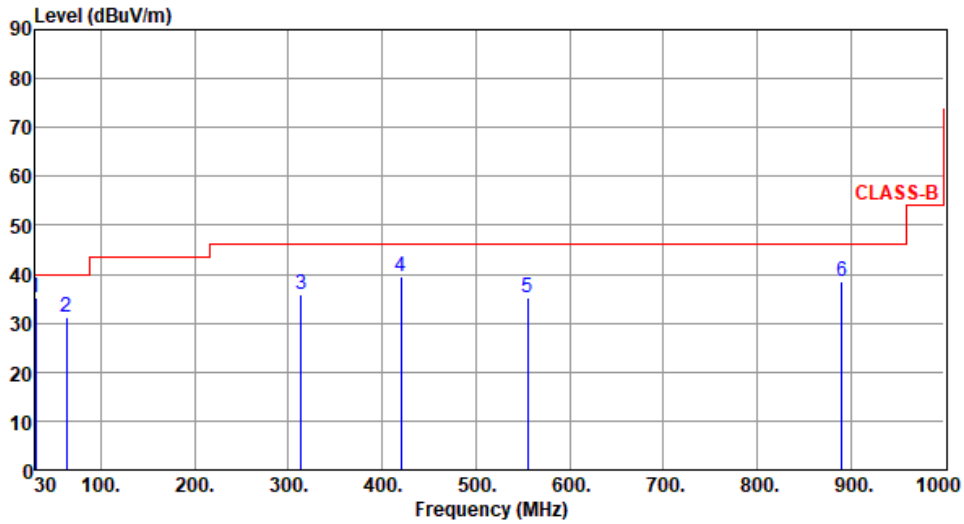


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	185.26	34.59	43.50	-8.91	45.48	-10.89	Peak	---	---
2	333.88	38.26	46.00	-7.74	45.36	-7.10	Peak	---	---
3	428.56	38.31	46.00	-7.69	43.18	-4.87	Peak	---	---
4	555.65	42.11	46.00	-3.89	44.32	-2.21	Peak	---	---
5	669.46	35.46	46.00	-10.54	35.62	-0.16	Peak	---	---
6	890.21	40.02	46.00	-5.98	36.41	3.61	Peak	---	---

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

Modulation	ax HE80	Test Freq. (MHz)	5690
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

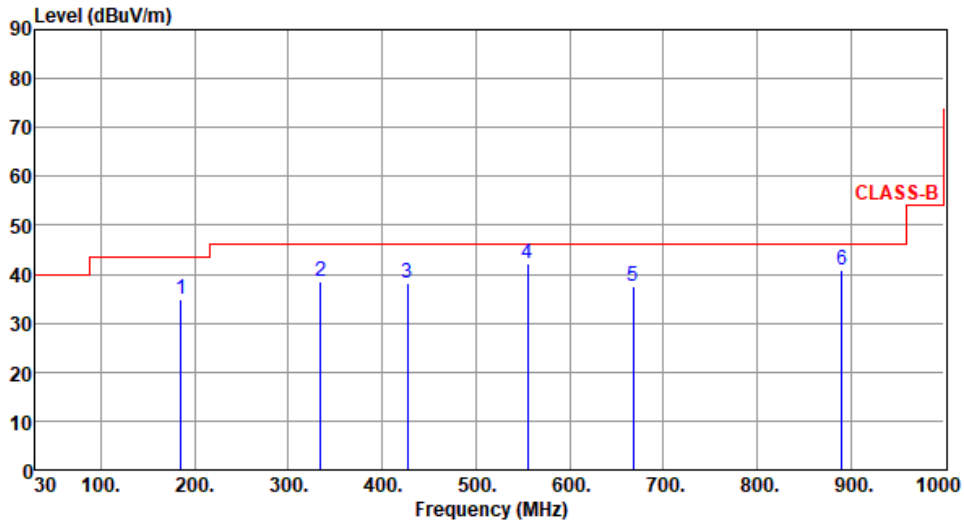


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	30.17	35.24	40.00	-4.76	44.77	-9.53	Peak	---	---
2	63.64	31.21	40.00	-8.79	40.76	-9.55	Peak	---	---
3	313.59	35.76	46.00	-10.24	43.36	-7.60	Peak	---	---
4	420.45	39.45	46.00	-6.55	44.66	-5.21	Peak	---	---
5	555.61	35.28	46.00	-10.72	37.49	-2.21	Peak	---	---
6	890.18	38.54	46.00	-7.46	34.93	3.61	Peak	---	---

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

Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

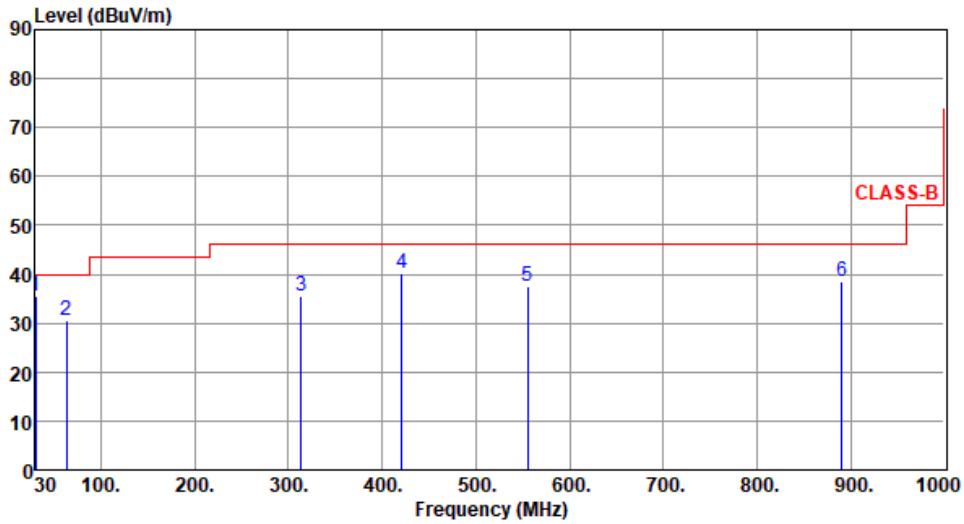


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	185.56	34.86	43.50	-8.64	45.78	-10.92	Peak	---	---
2	334.25	38.46	46.00	-7.54	45.55	-7.09	Peak	---	---
3	427.46	38.15	46.00	-7.85	43.06	-4.91	Peak	---	---
4	555.64	42.22	46.00	-3.78	44.43	-2.21	Peak	---	---
5	667.59	37.46	46.00	-8.54	37.62	-0.16	Peak	---	---
6	890.48	40.95	46.00	-5.05	37.32	3.63	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)	5795
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68



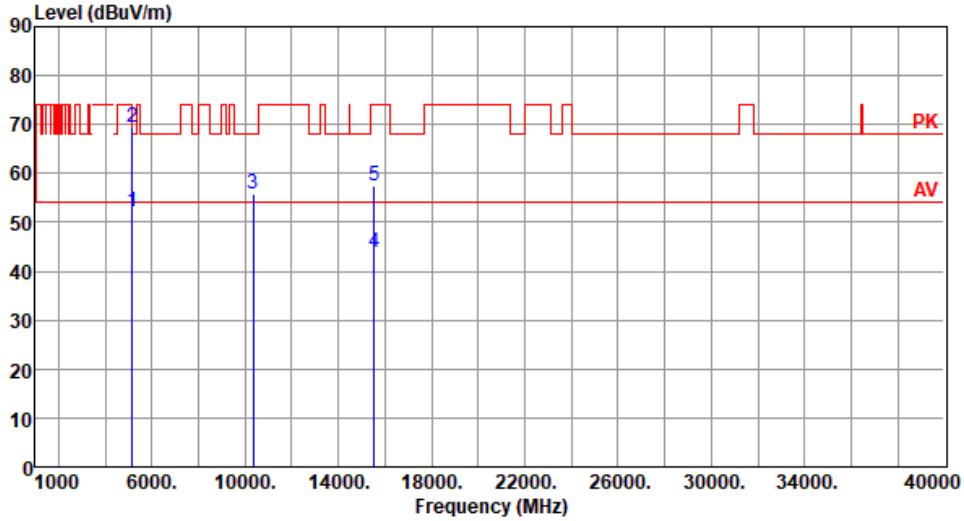
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	30.58	35.64	40.00	-4.36	45.29	-9.65	Peak	---	---
2	63.58	30.48	40.00	-9.52	40.03	-9.55	Peak	---	---
3	313.58	35.49	46.00	-10.51	43.09	-7.60	Peak	---	---
4	420.86	40.18	46.00	-5.82	45.38	-5.20	Peak	---	---
5	555.65	37.49	46.00	-8.51	39.70	-2.21	Peak	---	---
6	890.42	38.57	46.00	-7.43	34.94	3.63	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(℃):24 Humidity(%):68

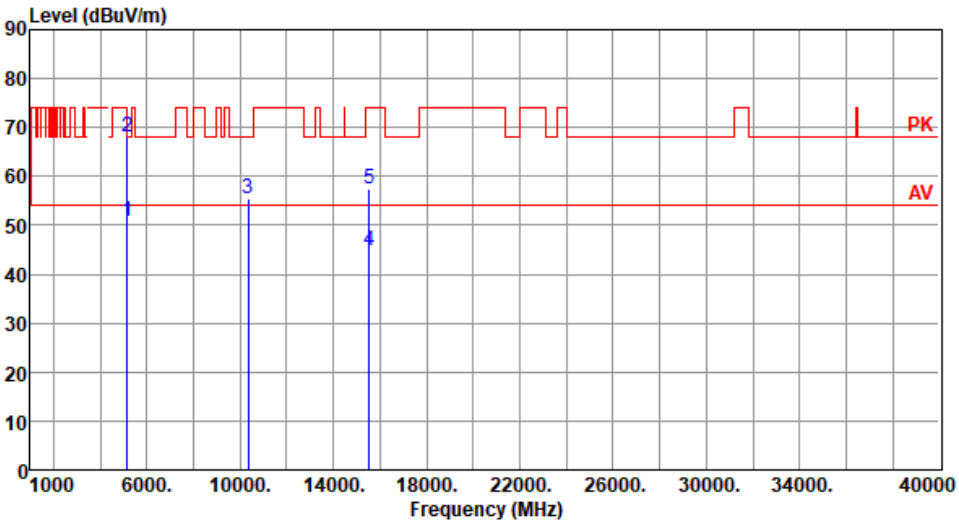


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.24	54.00	-1.76	47.86	4.38	Average	100	262
2	5150.00	69.34	74.00	-4.66	64.96	4.38	Peak	100	262
3	10360.00	55.95	68.20	-12.25	41.53	14.42	Peak	100	166
4	15540.00	43.96	54.00	-10.04	29.31	14.65	Average	100	125
5	15540.00	57.50	74.00	-16.50	42.85	14.65	Peak	100	125

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

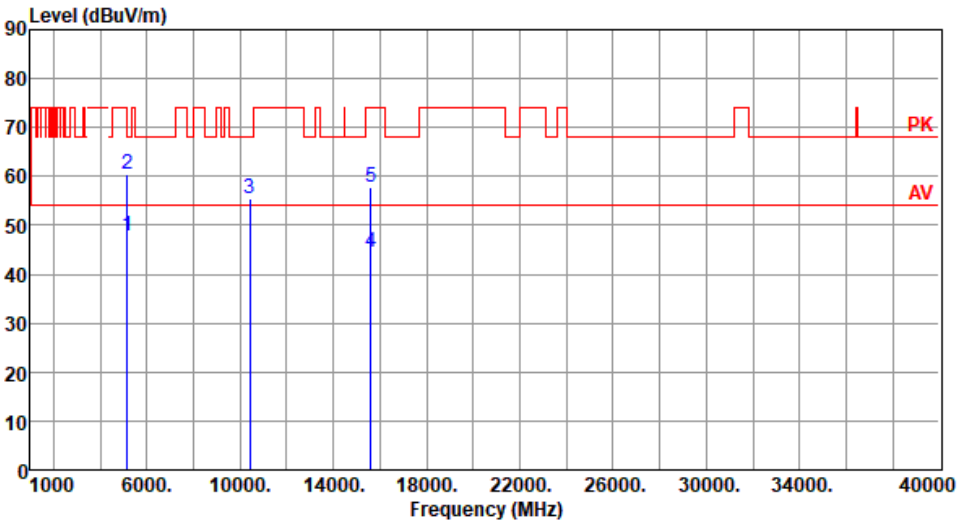


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.93	54.00	-3.07	46.55	4.38	Average	105	329
2	5150.00	68.02	74.00	-5.98	63.64	4.38	Peak	105	329
3	10360.00	55.37	68.20	-12.83	40.95	14.42	Peak	100	212
4	15540.00	44.78	54.00	-9.22	30.13	14.65	Average	100	56
5	15540.00	57.60	74.00	-16.40	42.95	14.65	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	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Aska Huang Temperature(℃):23 Humidity(%):66

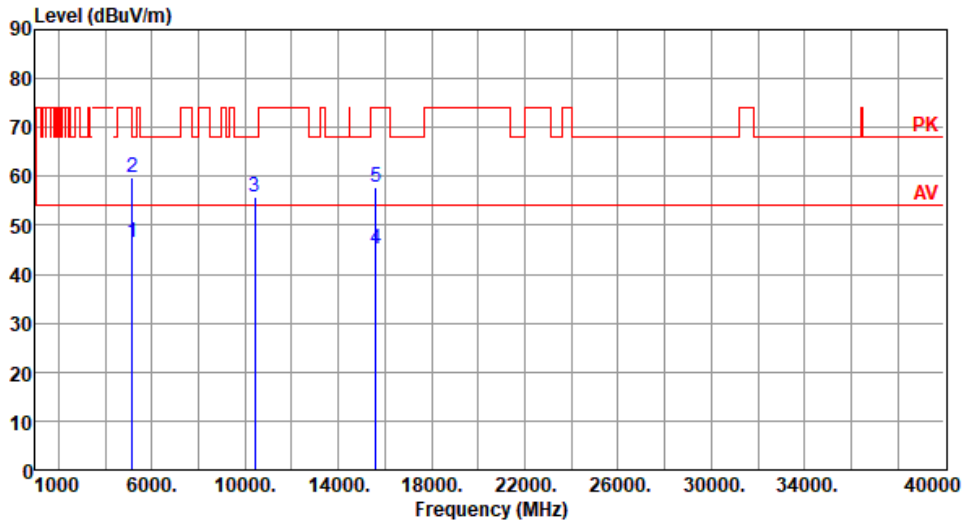


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.66	54.00	-6.34	43.28	4.38	Average	100	261
2	5150.00	60.40	74.00	-13.60	56.02	4.38	Peak	100	261
3	10400.00	55.60	68.20	-12.60	41.11	14.49	Peak	100	133
4	15600.00	44.59	54.00	-9.41	30.07	14.52	Average	100	31
5	15600.00	57.71	74.00	-16.29	43.19	14.52	Peak	100	31

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

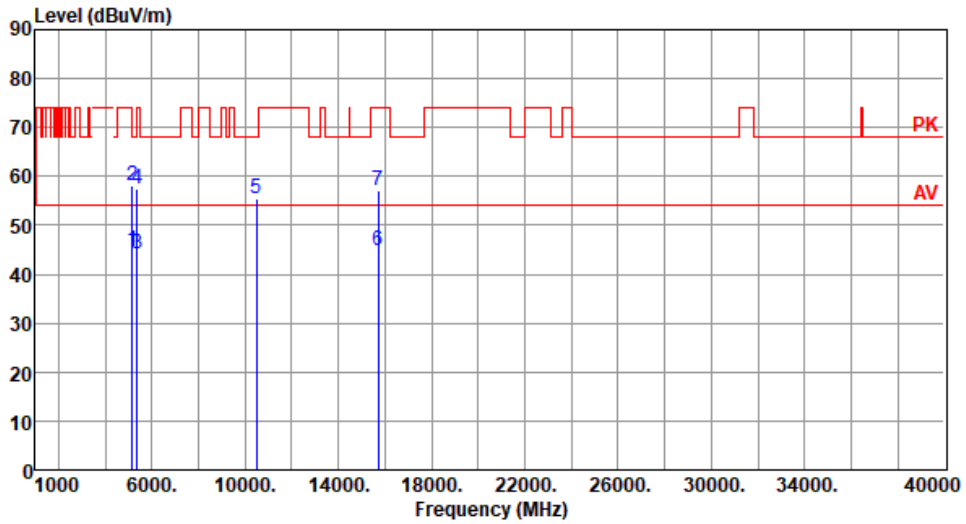


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.66	54.00	-7.34	42.28	4.38	Average	100	329
2	5150.00	59.63	74.00	-14.37	55.25	4.38	Peak	100	329
3	10400.00	55.70	68.20	-12.50	41.21	14.49	Peak	100	145
4	15600.00	45.20	54.00	-8.80	30.68	14.52	Average	100	331
5	15600.00	57.76	74.00	-16.24	43.24	14.52	Peak	100	331

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

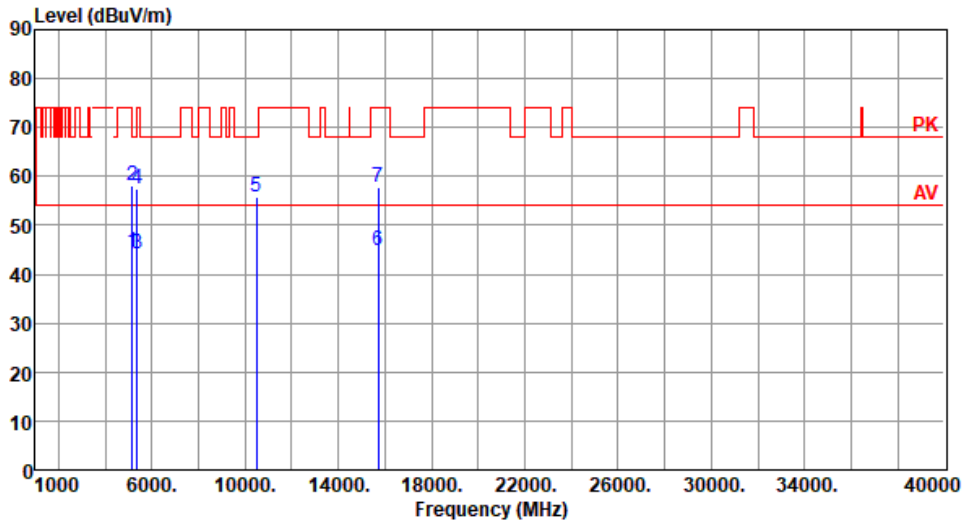


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.83	54.00	-9.17	40.45	4.38	Average	100	265
2	5150.00	57.97	74.00	-16.03	53.59	4.38	Peak	100	265
3	5350.00	44.22	54.00	-9.78	40.25	3.97	Average	100	265
4	5350.00	57.38	74.00	-16.62	53.41	3.97	Peak	100	265
5	10480.00	55.55	68.20	-12.65	41.00	14.55	Peak	100	175
6	15720.00	44.68	54.00	-9.32	30.32	14.36	Average	100	203
7	15720.00	57.15	74.00	-16.85	42.79	14.36	Peak	100	203

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

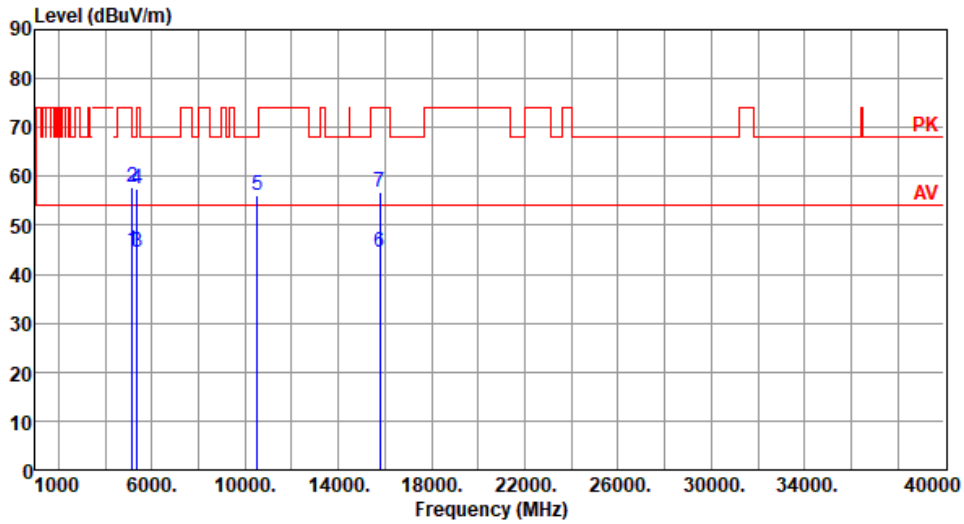


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.60	54.00	-9.40	40.22	4.38	Average	100	329
2	5150.00	58.00	74.00	-16.00	53.62	4.38	Peak	100	329
3	5350.00	44.10	54.00	-9.90	40.13	3.97	Average	100	329
4	5350.00	57.41	74.00	-16.59	53.44	3.97	Peak	100	329
5	10480.00	55.86	68.20	-12.34	41.31	14.55	Peak	100	140
6	15720.00	44.82	54.00	-9.18	30.46	14.36	Average	100	335
7	15720.00	57.73	74.00	-16.27	43.37	14.36	Peak	100	335

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

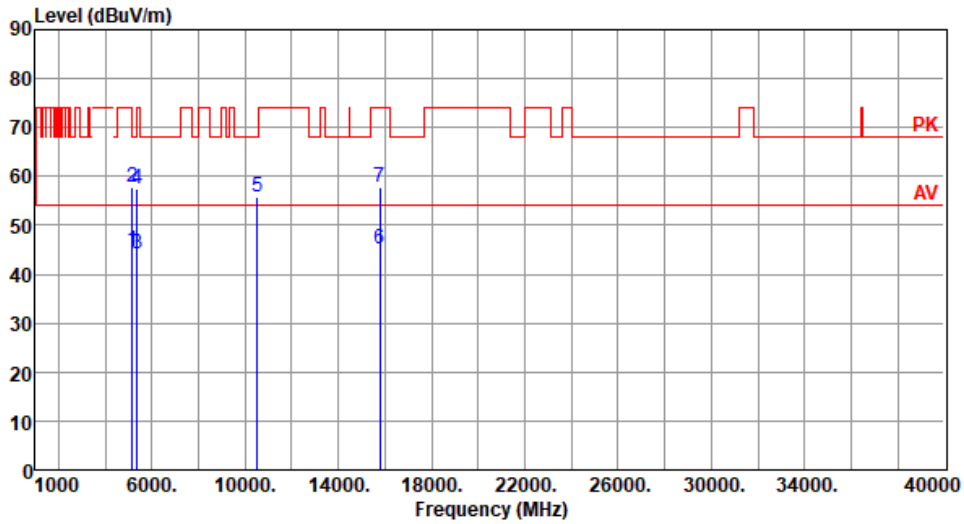


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.96	54.00	-9.04	40.58	4.38	Average	100	325
2	5150.00	57.87	74.00	-16.13	53.49	4.38	Peak	100	325
3	5350.00	44.59	54.00	-9.41	40.62	3.97	Average	100	325
4	5350.00	57.56	74.00	-16.44	53.59	3.97	Peak	100	325
5	10520.00	56.00	68.20	-12.20	41.43	14.57	Peak	100	237
6	15780.00	44.34	54.00	-9.66	30.15	14.19	Average	100	163
7	15780.00	56.93	74.00	-17.07	42.74	14.19	Peak	100	163

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

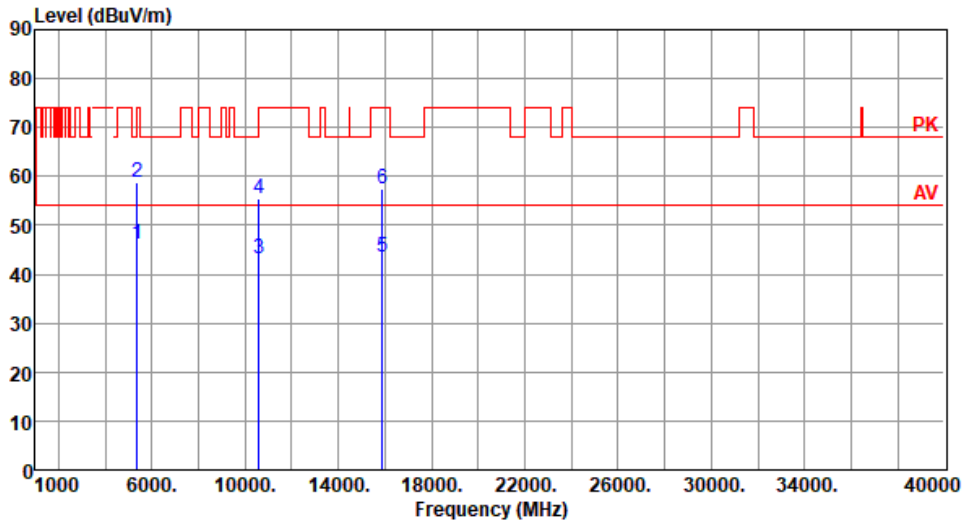


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.69	54.00	-9.31	40.31	4.38	Average	100	311
2	5150.00	57.63	74.00	-16.37	53.25	4.38	Peak	100	311
3	5350.00	44.20	54.00	-9.80	40.23	3.97	Average	100	311
4	5350.00	57.44	74.00	-16.56	53.47	3.97	Peak	100	311
5	10520.00	55.83	68.20	-12.37	41.26	14.57	Peak	100	40
6	15780.00	45.03	54.00	-8.97	30.84	14.19	Average	100	345
7	15780.00	57.67	74.00	-16.33	43.48	14.19	Peak	100	345

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

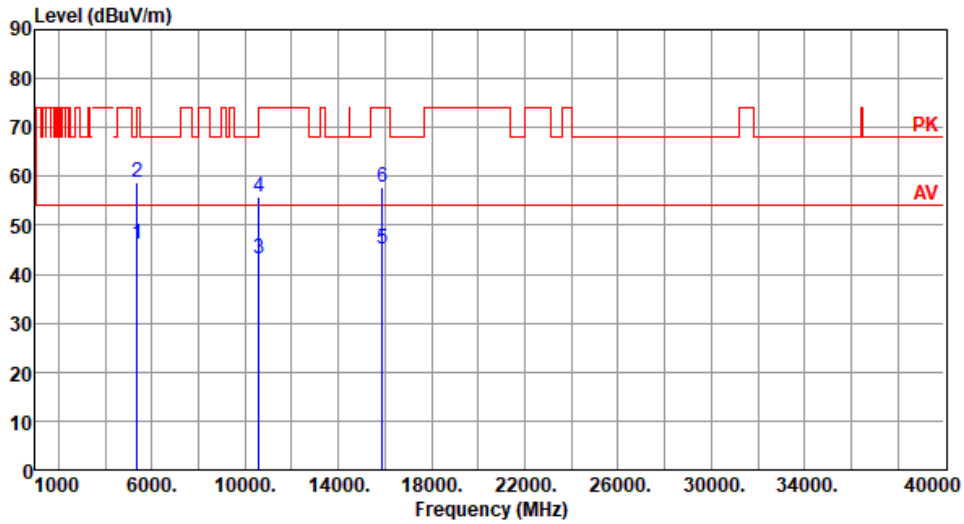


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.07	54.00	-7.93	42.10	3.97	Average	100	322
2	5350.00	58.74	74.00	-15.26	54.77	3.97	Peak	100	322
3	10600.00	43.31	54.00	-10.69	28.74	14.57	Average	100	40
4	10600.00	55.48	74.00	-18.52	40.91	14.57	Peak	100	40
5	15900.00	43.47	54.00	-10.53	29.24	14.23	Average	100	60
6	15900.00	57.47	74.00	-16.53	43.24	14.23	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)	5300
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

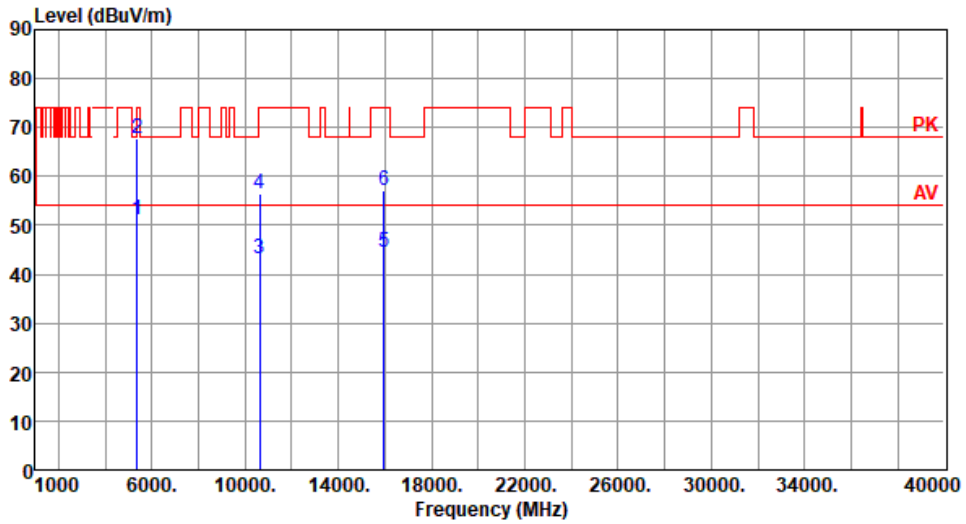


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.13	54.00	-7.87	42.16	3.97	Average	100	322
2	5350.00	58.78	74.00	-15.22	54.81	3.97	Peak	100	322
3	10600.00	43.33	54.00	-10.67	28.76	14.57	Average	100	50
4	10600.00	55.72	74.00	-18.28	41.15	14.57	Peak	100	50
5	15900.00	45.16	54.00	-8.84	30.93	14.23	Average	100	348
6	15900.00	57.78	74.00	-16.22	43.55	14.23	Peak	100	348

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

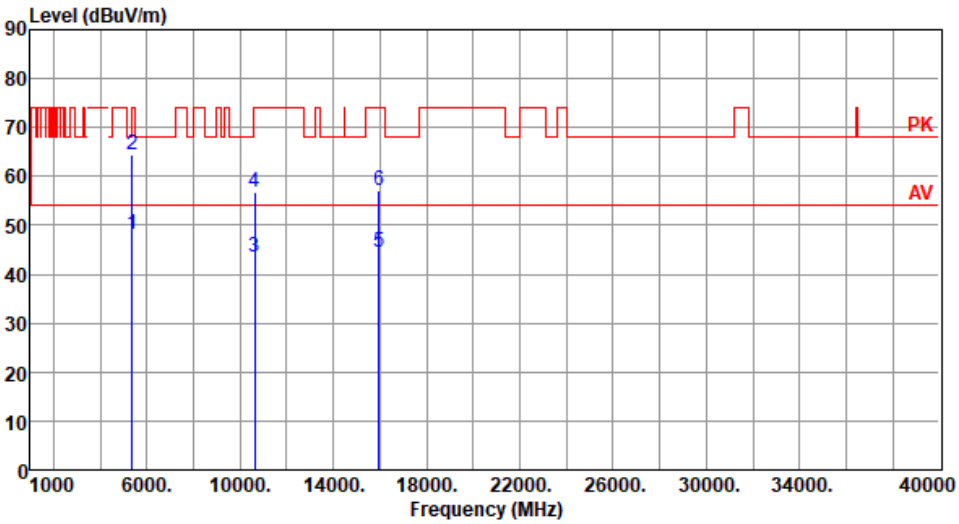


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	51.05	54.00	-2.95	47.08	3.97	Average	100	334
2	5350.00	67.84	74.00	-6.16	63.87	3.97	Peak	100	334
3	10640.00	43.32	54.00	-10.68	28.76	14.56	Average	100	146
4	10640.00	56.50	74.00	-17.50	41.94	14.56	Peak	100	146
5	15960.00	44.40	54.00	-9.60	30.12	14.28	Average	100	212
6	15960.00	57.03	74.00	-16.97	42.75	14.28	Peak	100	212

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

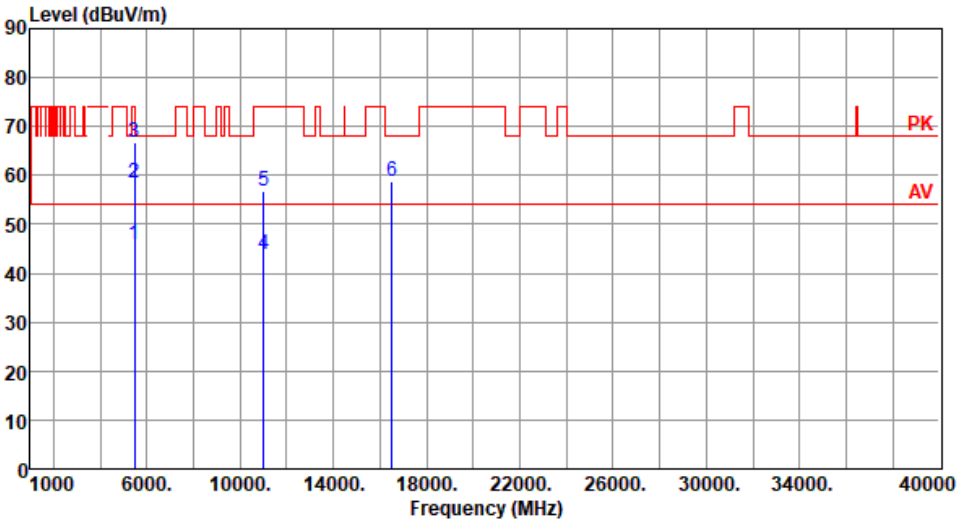


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	48.27	54.00	-5.73	44.30	3.97	Average	100	169
2	5350.00	64.55	74.00	-9.45	60.58	3.97	Peak	100	169
3	10640.00	43.35	54.00	-10.65	28.79	14.56	Average	100	163
4	10640.00	56.78	74.00	-17.22	42.22	14.56	Peak	100	163
5	15960.00	44.44	54.00	-9.56	30.16	14.28	Average	100	177
6	15960.00	57.19	74.00	-16.81	42.91	14.28	Peak	100	177

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

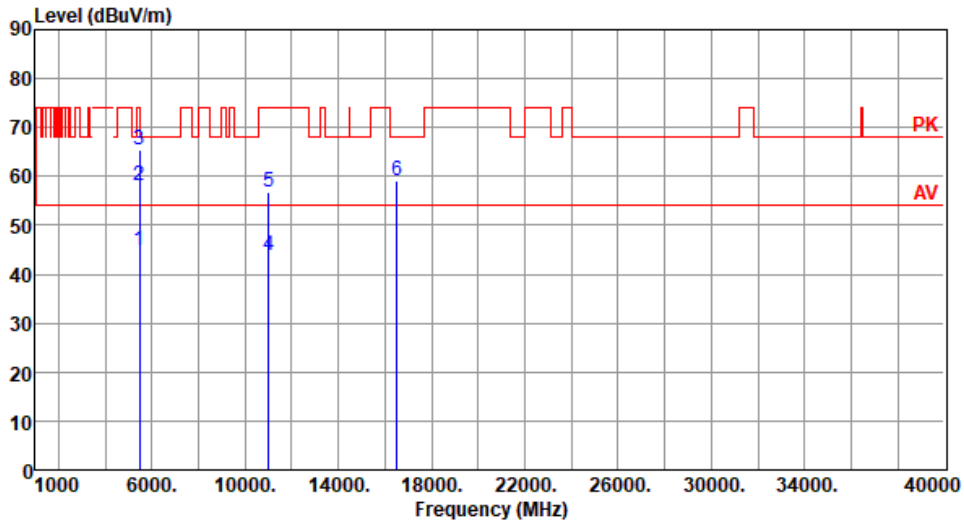


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.69	54.00	-8.31	41.32	4.37	Average	100	350
2	5460.00	58.52	74.00	-15.48	54.15	4.37	Peak	100	350
3	5470.00	66.88	68.20	-1.32	62.49	4.39	Peak	100	350
4	11000.00	43.71	54.00	-10.29	28.55	15.16	Average	100	163
5	11000.00	56.91	74.00	-17.09	41.75	15.16	Peak	100	163
6	16500.00	58.79	68.20	-9.41	42.44	16.35	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)	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

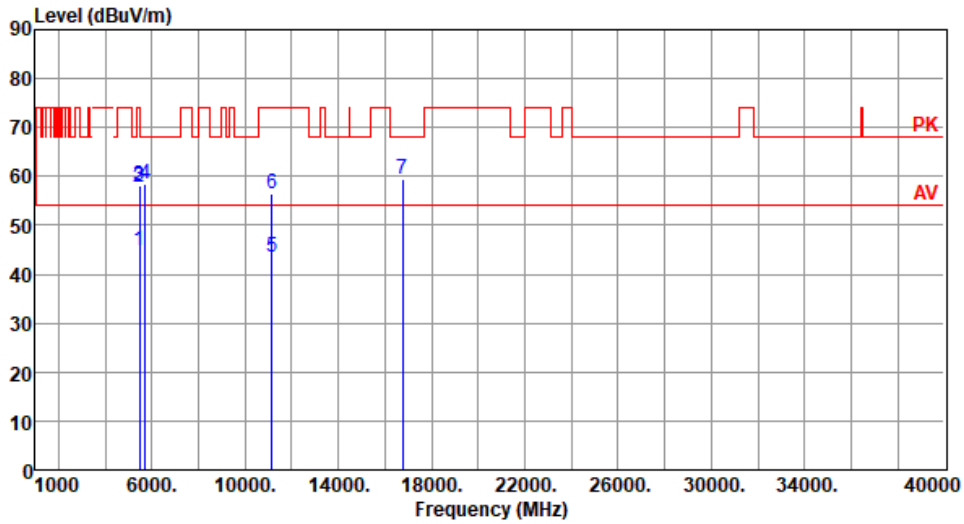


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.95	54.00	-9.05	40.58	4.37	Average	338	118
2	5460.00	58.05	74.00	-15.95	53.68	4.37	Peak	338	118
3	5470.00	65.50	68.20	-2.70	61.11	4.39	Peak	338	118
4	11000.00	43.78	54.00	-10.22	28.62	15.16	Average	100	146
5	11000.00	56.73	74.00	-17.27	41.57	15.16	Peak	100	146
6	16500.00	59.02	68.20	-9.18	42.67	16.35	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	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

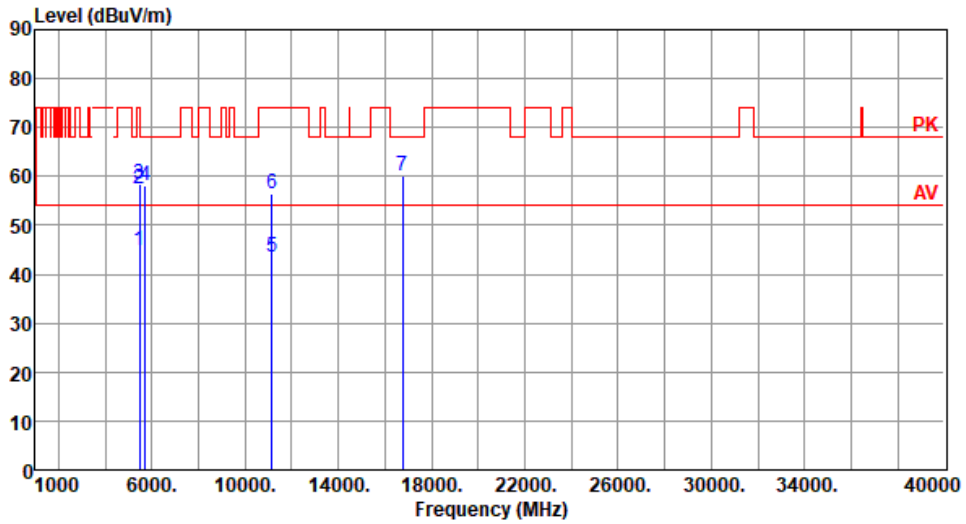


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.94	54.00	-9.06	40.57	4.37	Average	100	345
2	5460.00	57.85	74.00	-16.15	53.48	4.37	Peak	100	345
3	5470.00	58.07	68.20	-10.13	53.68	4.39	Peak	100	345
4	5725.00	58.56	68.20	-9.64	53.75	4.81	Peak	100	345
5	11160.00	43.54	54.00	-10.46	28.92	14.62	Average	100	40
6	11160.00	56.40	74.00	-17.60	41.78	14.62	Peak	100	40
7	16740.00	59.30	68.20	-8.90	42.22	17.08	Peak	100	316

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

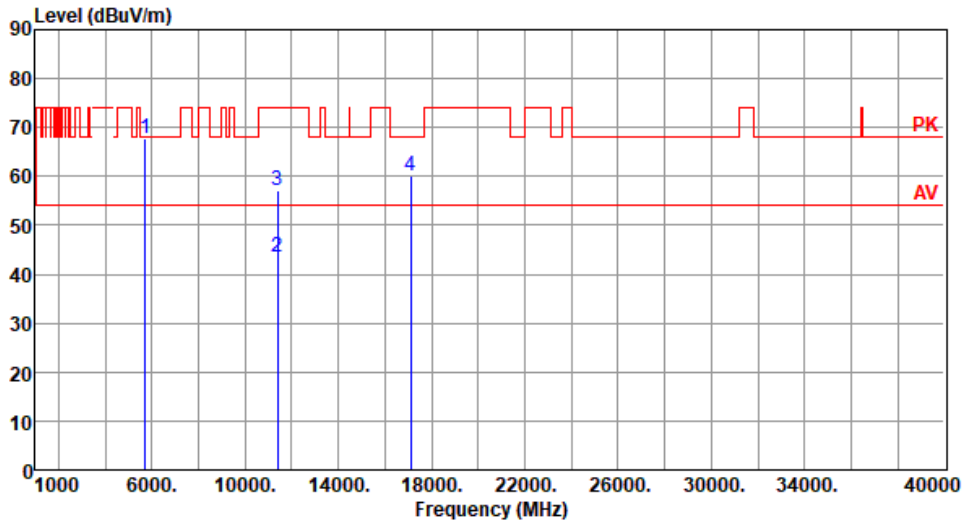


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.82	54.00	-9.18	40.45	4.37	Average	331	120
2	5460.00	57.49	74.00	-16.51	53.12	4.37	Peak	331	120
3	5470.00	58.34	68.20	-9.86	53.95	4.39	Peak	331	120
4	5725.00	58.07	68.20	-10.13	53.26	4.81	Peak	331	120
5	11160.00	43.40	54.00	-10.60	28.78	14.62	Average	100	90
6	11160.00	56.37	74.00	-17.63	41.75	14.62	Peak	100	90
7	16740.00	60.19	68.20	-8.01	43.11	17.08	Peak	100	140

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

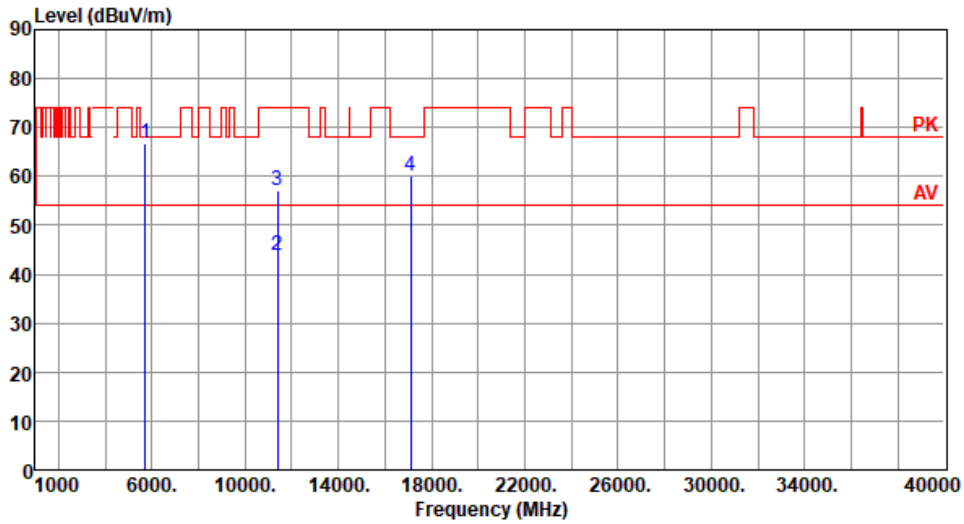


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	67.67	68.20	-0.53	62.86	4.81	Peak	100	308
2	11400.00	43.50	54.00	-10.50	28.65	14.85	Average	100	95
3	11400.00	57.06	74.00	-16.94	42.21	14.85	Peak	100	95
4	17100.00	60.23	68.20	-7.97	42.86	17.37	Peak	100	177

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

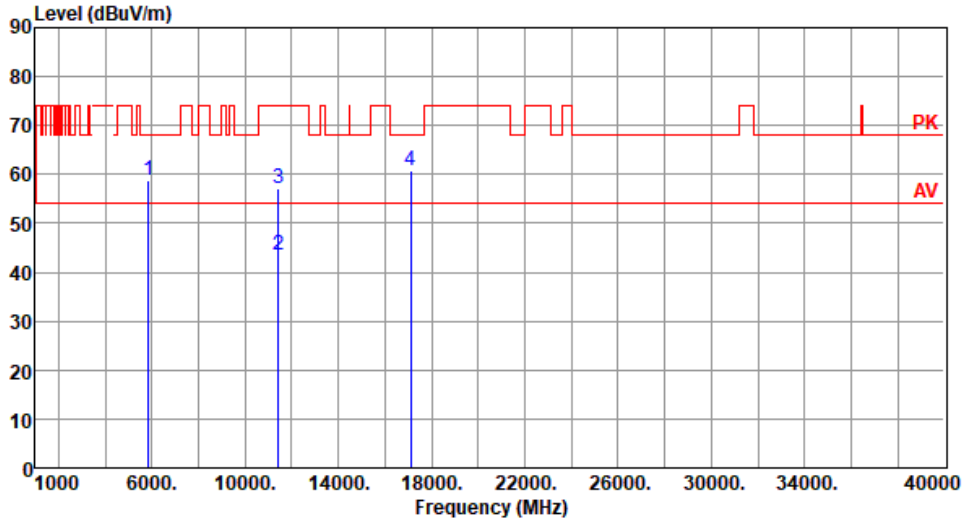


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.84	68.20	-1.36	62.03	4.81	Peak	314	112
2	11400.00	43.80	54.00	-10.20	28.95	14.85	Average	100	163
3	11400.00	57.11	74.00	-16.89	42.26	14.85	Peak	100	163
4	17100.00	60.13	68.20	-8.07	42.76	17.37	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(℃):24 Humidity(%):68

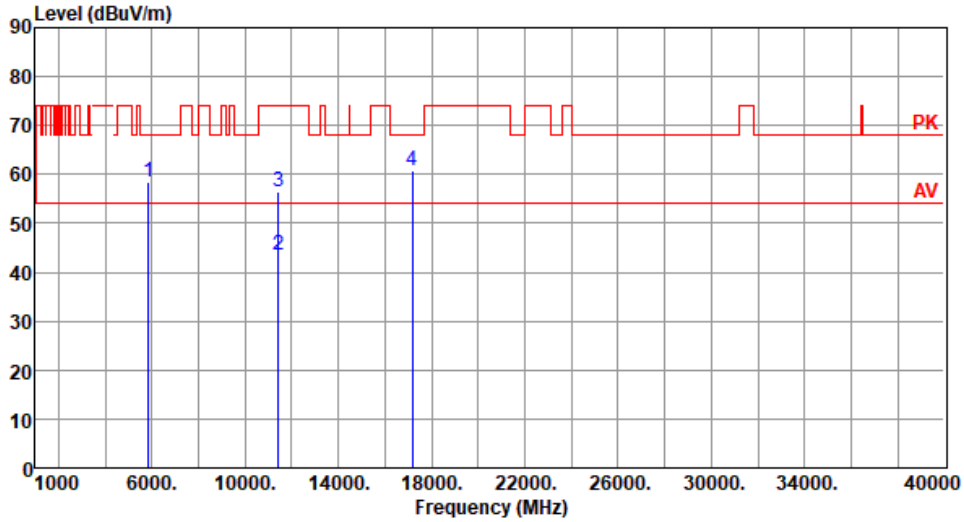


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.87	68.20	-9.33	53.69	5.18	Peak	100	305
2	11440.00	43.49	54.00	-10.51	28.68	14.81	Average	100	212
3	11440.00	57.18	74.00	-16.82	42.37	14.81	Peak	100	212
4	17100.00	60.78	68.20	-7.42	43.41	17.37	Peak	100	238

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

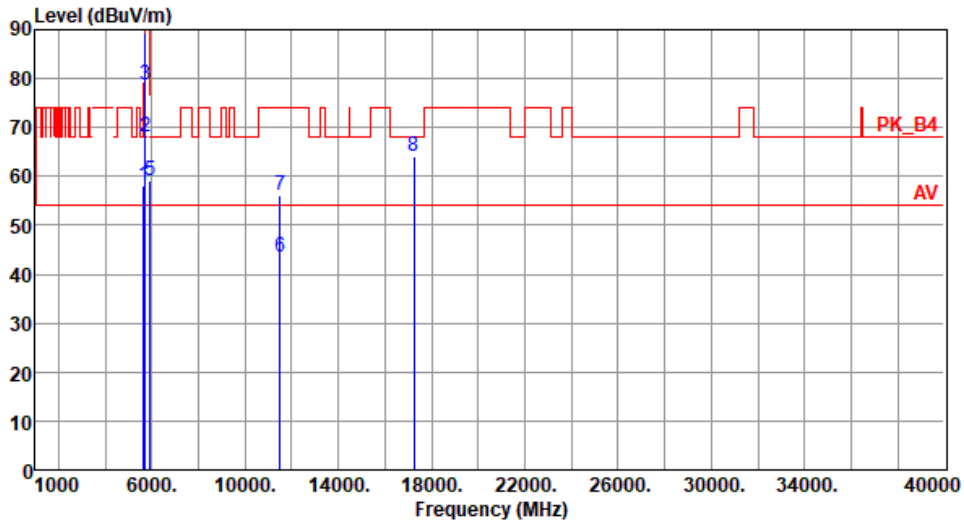


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.39	68.20	-9.81	53.21	5.18	Peak	312	126
2	11440.00	43.46	54.00	-10.54	28.65	14.81	Average	100	80
3	11440.00	56.46	74.00	-17.54	41.65	14.81	Peak	100	80
4	17160.00	60.67	68.20	-7.53	43.25	17.42	Peak	100	142

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

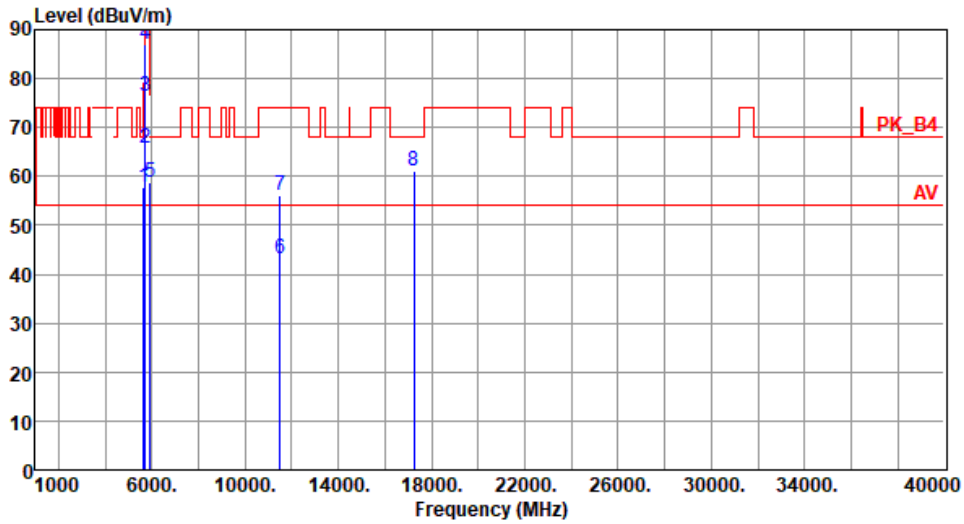


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.05	68.20	-10.15	53.60	4.45	Peak	100	299
2	5700.00	68.14	105.20	-37.06	63.45	4.69	Peak	100	299
3	5720.00	78.60	110.80	-32.20	73.81	4.79	Peak	100	299
4	5725.00	89.32	122.20	-32.88	84.51	4.81	Peak	100	299
5	5925.00	59.07	68.20	-9.13	53.69	5.38	Peak	100	299
6	11490.00	43.41	54.00	-10.59	28.65	14.76	Average	100	180
7	11490.00	56.01	74.00	-17.99	41.25	14.76	Peak	100	180
8	17235.00	63.93	68.20	-4.27	46.38	17.55	Peak	101	33

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

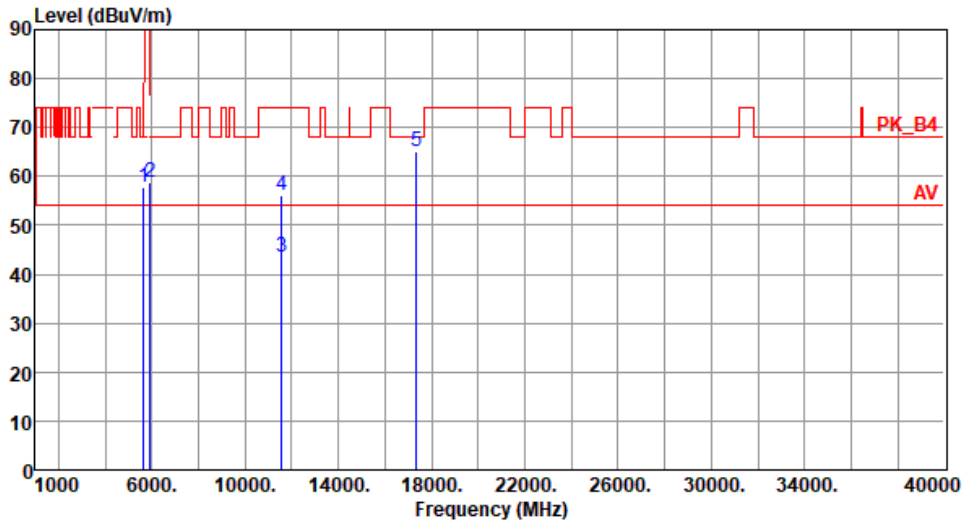


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.88	68.20	-10.32	53.43	4.45	Peak	300	130
2	5700.00	65.75	105.20	-39.45	61.06	4.69	Peak	300	130
3	5720.00	76.22	110.80	-34.58	71.43	4.79	Peak	300	130
4	5725.00	86.94	122.20	-35.26	82.13	4.81	Peak	300	130
5	5925.00	58.80	68.20	-9.40	53.42	5.38	Peak	300	130
6	11490.00	43.19	54.00	-10.81	28.43	14.76	Average	100	163
7	11490.00	56.20	74.00	-17.80	41.44	14.76	Peak	100	163
8	17235.00	61.19	68.20	-7.01	43.64	17.55	Peak	100	127

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

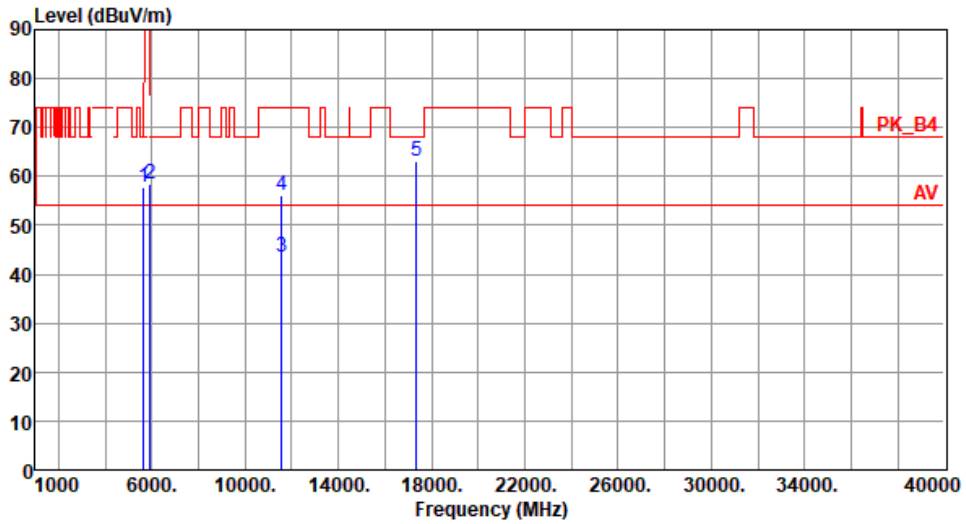


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.91	68.20	-10.29	53.46	4.45	Peak	100	301
2	5925.00	58.93	68.20	-9.27	53.55	5.38	Peak	100	301
3	11570.00	43.47	54.00	-10.53	28.79	14.68	Average	100	185
4	11570.00	55.99	74.00	-18.01	41.31	14.68	Peak	100	185
5	17355.00	65.11	68.20	-3.09	47.00	18.11	Peak	100	25

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

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

Test By :Aska Huang Temperature(℃):23 Humidity(%):66

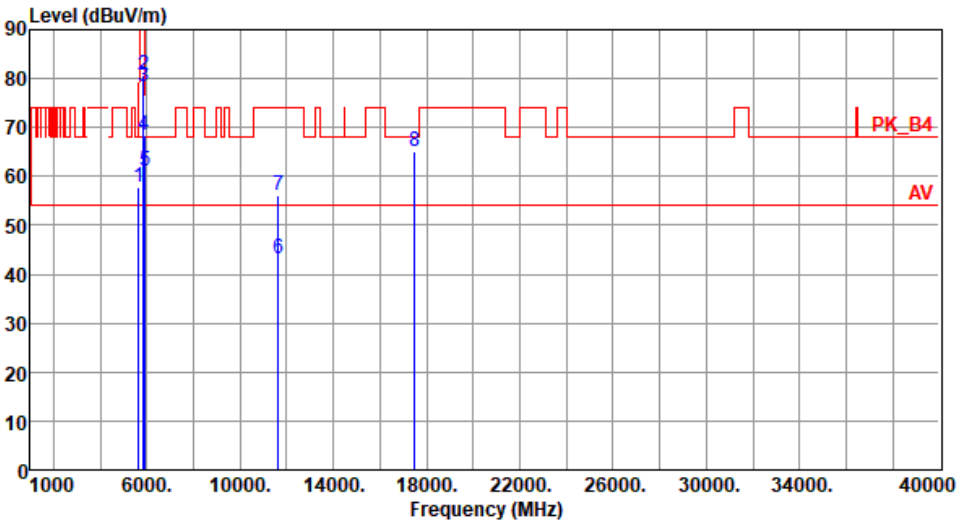


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.84	68.20	-10.36	53.39	4.45	Peak	305	125
2	5925.00	58.54	68.20	-9.66	53.16	5.38	Peak	305	125
3	11570.00	43.58	54.00	-10.42	28.90	14.68	Average	100	126
4	11570.00	56.13	74.00	-17.87	41.45	14.68	Peak	100	126
5	17355.00	63.14	68.20	-5.06	45.03	18.11	Peak	100	143

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

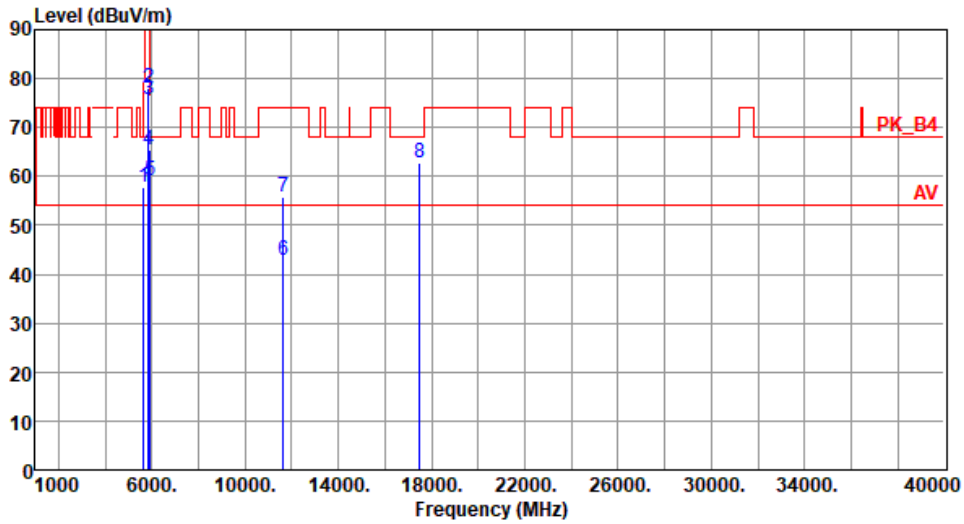


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.90	68.20	-10.30	53.45	4.45	Peak	100	302
2	5850.00	80.54	122.20	-41.66	75.36	5.18	Peak	100	302
3	5855.00	78.27	110.80	-32.53	73.08	5.19	Peak	100	302
4	5875.00	68.39	105.20	-36.81	63.11	5.28	Peak	100	302
5	5925.00	61.01	68.20	-7.19	55.63	5.38	Peak	100	302
6	11650.00	43.20	54.00	-10.80	28.75	14.45	Average	100	180
7	11650.00	56.00	74.00	-18.00	41.55	14.45	Peak	100	180
8	17475.00	65.17	68.20	-3.03	46.33	18.84	Peak	106	34

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68



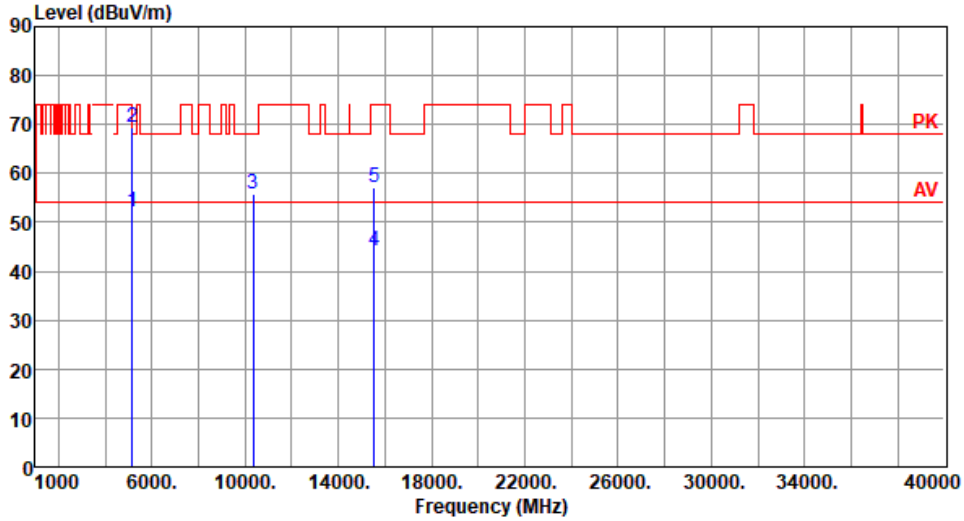
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.67	68.20	-10.53	53.22	4.45	Peak	305	131
2	5850.00	78.19	122.20	-44.01	73.01	5.18	Peak	305	131
3	5855.00	75.62	110.80	-35.18	70.43	5.19	Peak	305	131
4	5875.00	65.52	105.20	-39.68	60.24	5.28	Peak	305	131
5	5925.00	59.16	68.20	-9.04	53.78	5.38	Peak	305	131
6	11650.00	42.98	54.00	-11.02	28.53	14.45	Average	100	143
7	11650.00	55.72	74.00	-18.28	41.27	14.45	Peak	100	143
8	17475.00	62.90	68.20	-5.30	44.06	18.84	Peak	100	168

Note 1: Emission Level (dBuV/m) = SA Reading (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(℃):24 Humidity(%):68

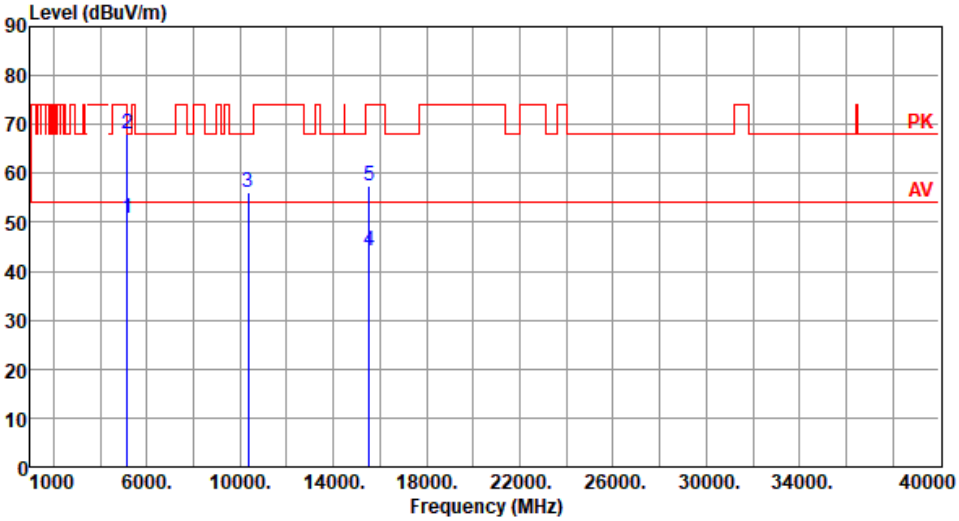


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.25	54.00	-1.75	47.87	4.38	Average	100	261
2	5150.00	69.50	74.00	-4.50	65.12	4.38	Peak	100	261
3	10360.00	55.73	68.20	-12.47	41.31	14.42	Peak	100	144
4	15540.00	44.21	54.00	-9.79	29.56	14.65	Average	100	68
5	15540.00	56.96	74.00	-17.04	42.31	14.65	Peak	100	68

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

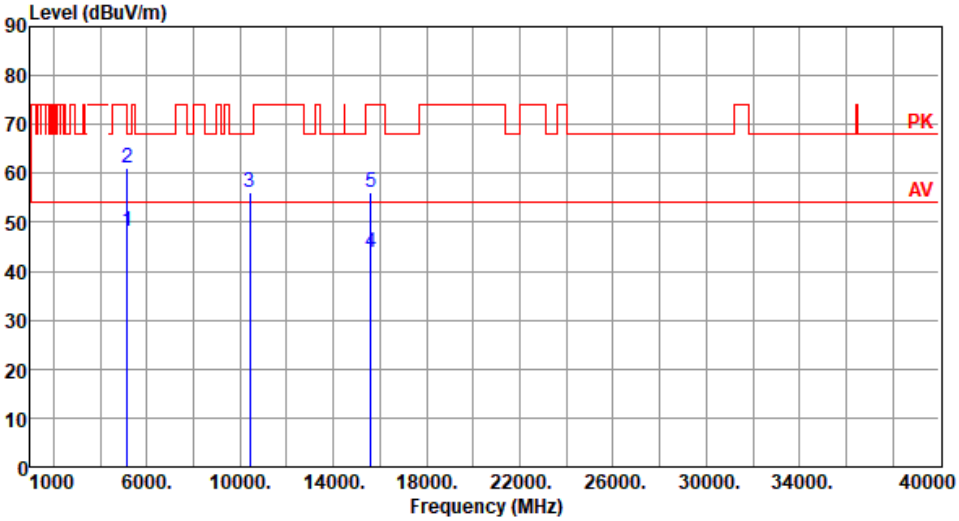


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.96	54.00	-3.04	46.58	4.38	Average	106	330
2	5150.00	68.12	74.00	-5.88	63.74	4.38	Peak	106	330
3	10360.00	56.17	68.20	-12.03	41.75	14.42	Peak	100	161
4	15540.00	44.31	54.00	-9.69	29.66	14.65	Average	100	193
5	15540.00	57.43	74.00	-16.57	42.78	14.65	Peak	100	193

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

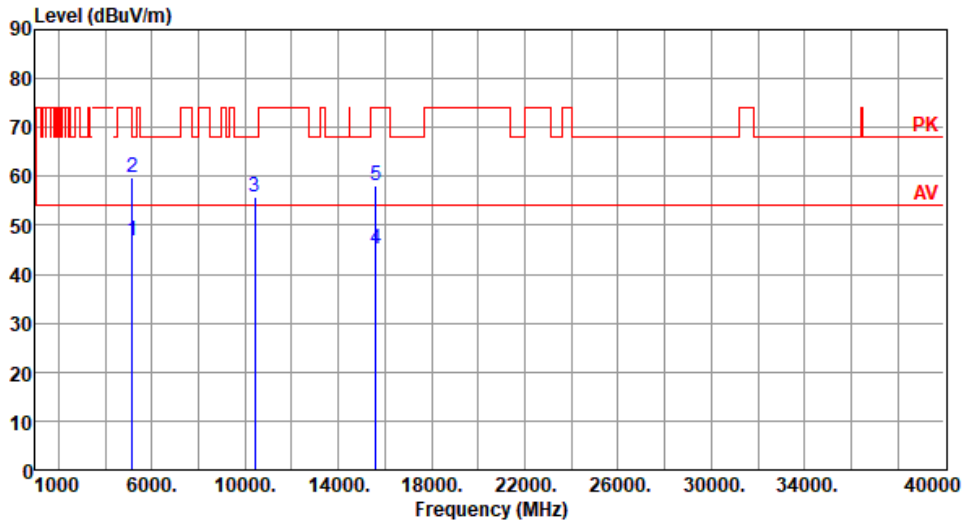


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.02	54.00	-5.98	43.64	4.38	Average	100	265
2	5150.00	61.08	74.00	-12.92	56.70	4.38	Peak	100	265
3	10400.00	55.96	68.20	-12.24	41.47	14.49	Peak	100	142
4	15600.00	43.96	54.00	-10.04	29.44	14.52	Average	100	158
5	15600.00	56.11	74.00	-17.89	41.59	14.52	Peak	100	158

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

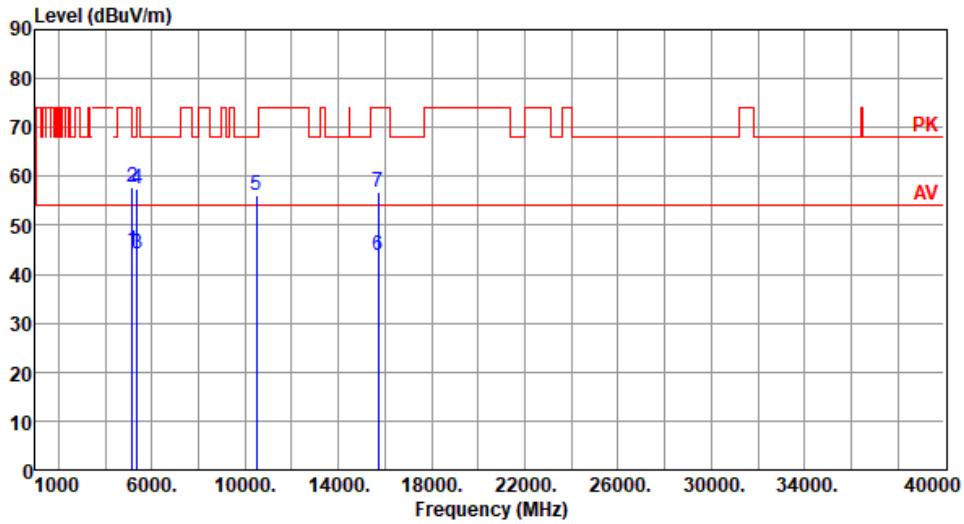


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.86	54.00	-7.14	42.48	4.38	Average	100	316
2	5150.00	59.69	74.00	-14.31	55.31	4.38	Peak	100	316
3	10400.00	55.85	68.20	-12.35	41.36	14.49	Peak	100	144
4	15600.00	45.02	54.00	-8.98	30.50	14.52	Average	100	333
5	15600.00	58.09	74.00	-15.91	43.57	14.52	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

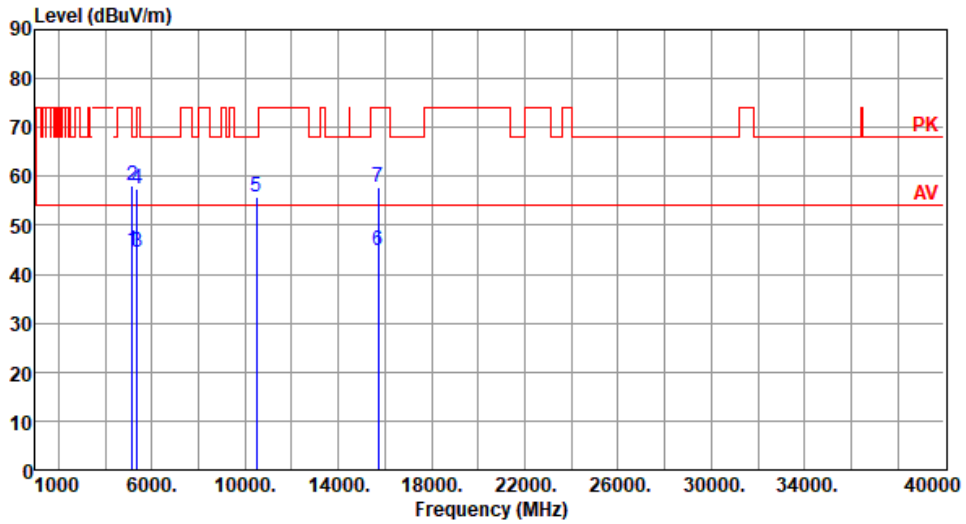


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.97	54.00	-9.03	40.59	4.38	Average	100	266
2	5150.00	57.84	74.00	-16.16	53.46	4.38	Peak	100	266
3	5350.00	44.15	54.00	-9.85	40.18	3.97	Average	100	266
4	5350.00	57.55	74.00	-16.45	53.58	3.97	Peak	100	266
5	10480.00	56.08	68.20	-12.12	41.53	14.55	Peak	100	162
6	15720.00	43.88	54.00	-10.12	29.52	14.36	Average	100	196
7	15720.00	56.84	74.00	-17.16	42.48	14.36	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 HE20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

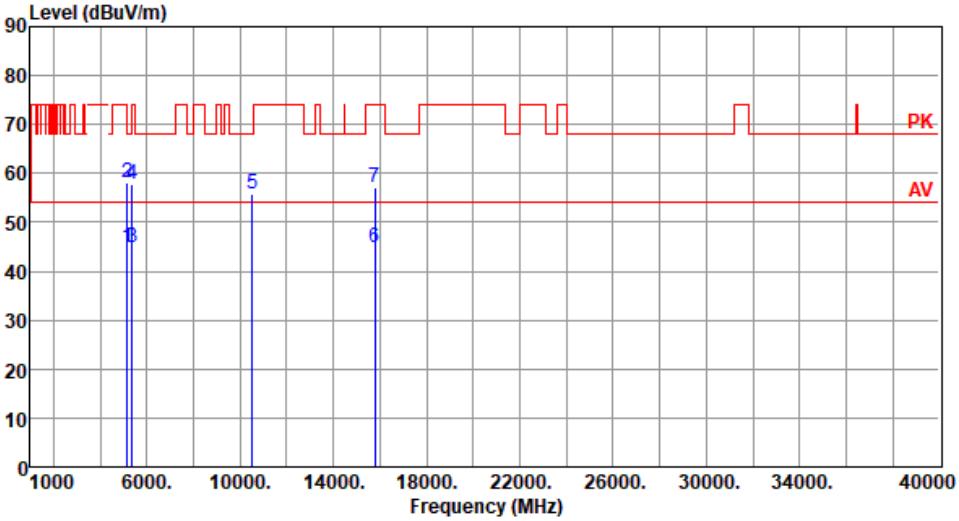


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.81	54.00	-9.19	40.43	4.38	Average	100	312
2	5150.00	58.00	74.00	-16.00	53.62	4.38	Peak	100	312
3	5350.00	44.35	54.00	-9.65	40.38	3.97	Average	100	312
4	5350.00	57.55	74.00	-16.45	53.58	3.97	Peak	100	312
5	10480.00	55.84	68.20	-12.36	41.29	14.55	Peak	100	138
6	15720.00	44.88	54.00	-9.12	30.52	14.36	Average	100	334
7	15720.00	57.86	74.00	-16.14	43.50	14.36	Peak	100	334

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

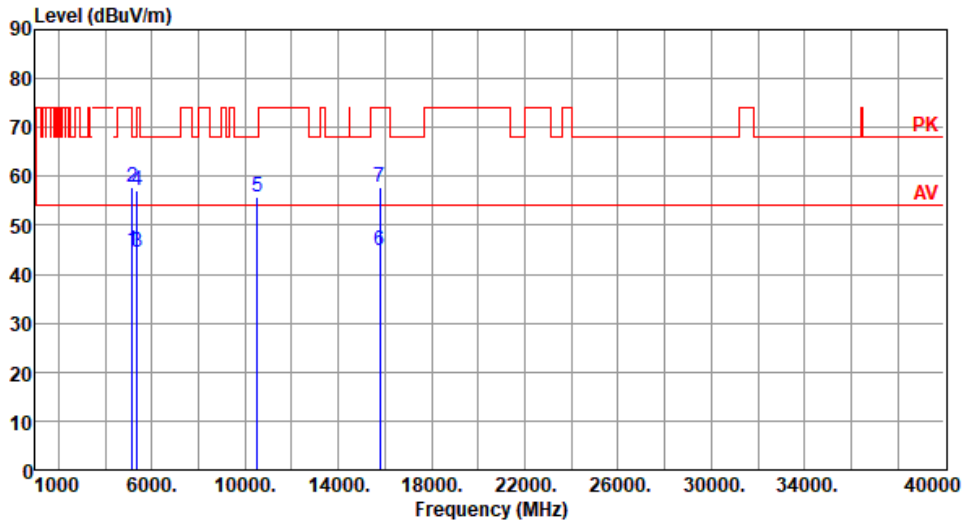


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.84	54.00	-9.16	40.46	4.38	Average	100	326
2	5150.00	57.97	74.00	-16.03	53.59	4.38	Peak	100	326
3	5350.00	44.82	54.00	-9.18	40.85	3.97	Average	100	326
4	5350.00	57.66	74.00	-16.34	53.69	3.97	Peak	100	326
5	10520.00	55.95	68.20	-12.25	41.38	14.57	Peak	100	146
6	15780.00	44.82	54.00	-9.18	30.63	14.19	Average	100	126
7	15780.00	57.17	74.00	-16.83	42.98	14.19	Peak	100	126

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

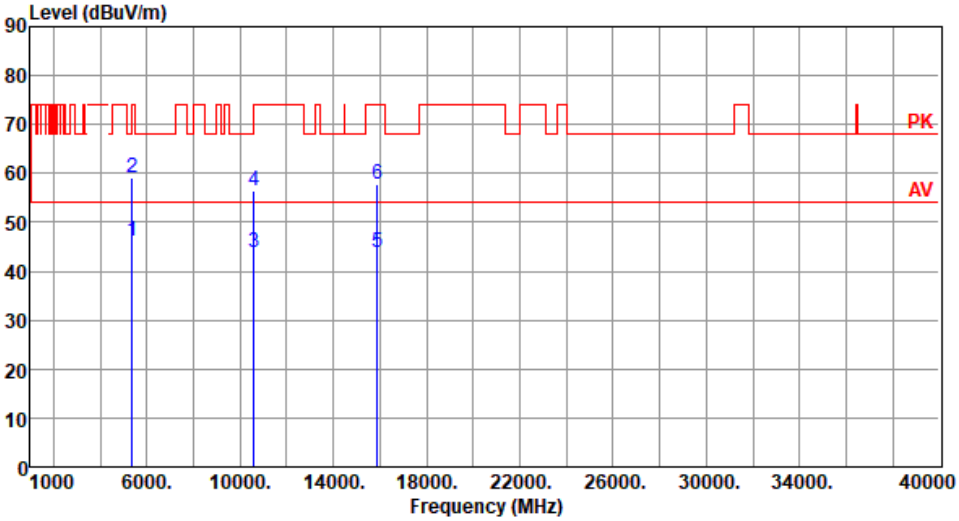


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.82	54.00	-9.18	40.44	4.38	Average	100	311
2	5150.00	57.67	74.00	-16.33	53.29	4.38	Peak	100	311
3	5350.00	44.45	54.00	-9.55	40.48	3.97	Average	100	311
4	5350.00	57.25	74.00	-16.75	53.28	3.97	Peak	100	311
5	10520.00	55.88	68.20	-12.32	41.31	14.57	Peak	100	30
6	15780.00	44.93	54.00	-9.07	30.74	14.19	Average	100	342
7	15780.00	57.73	74.00	-16.27	43.54	14.19	Peak	100	342

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

Modulation	ax HE20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

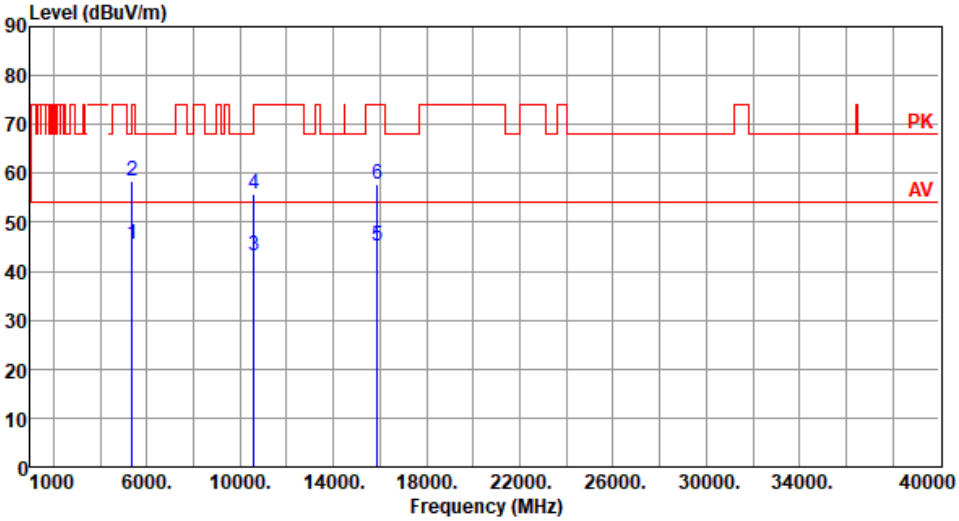


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.23	54.00	-7.77	42.26	3.97	Average	100	325
2	5350.00	59.08	74.00	-14.92	55.11	3.97	Peak	100	325
3	10600.00	43.99	54.00	-10.01	29.42	14.57	Average	100	168
4	10600.00	56.42	74.00	-17.58	41.85	14.57	Peak	100	168
5	15900.00	43.90	54.00	-10.10	29.67	14.23	Average	100	168
6	15900.00	57.63	74.00	-16.37	43.40	14.23	Peak	100	168

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

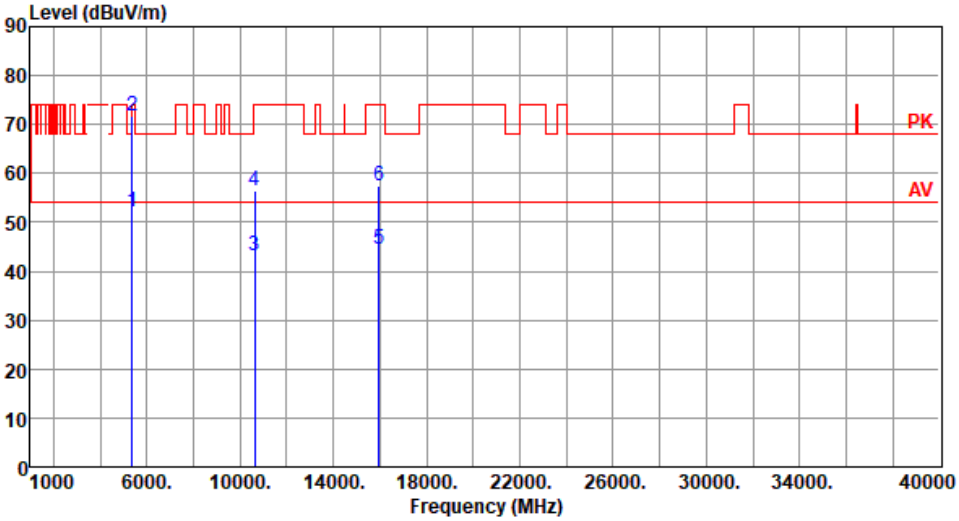


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.45	54.00	-8.55	41.48	3.97	Average	100	295
2	5350.00	58.29	74.00	-15.71	54.32	3.97	Peak	100	295
3	10600.00	43.21	54.00	-10.79	28.64	14.57	Average	100	40
4	10600.00	55.83	74.00	-18.17	41.26	14.57	Peak	100	40
5	15900.00	45.10	54.00	-8.90	30.87	14.23	Average	100	345
6	15900.00	57.83	74.00	-16.17	43.60	14.23	Peak	100	345

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

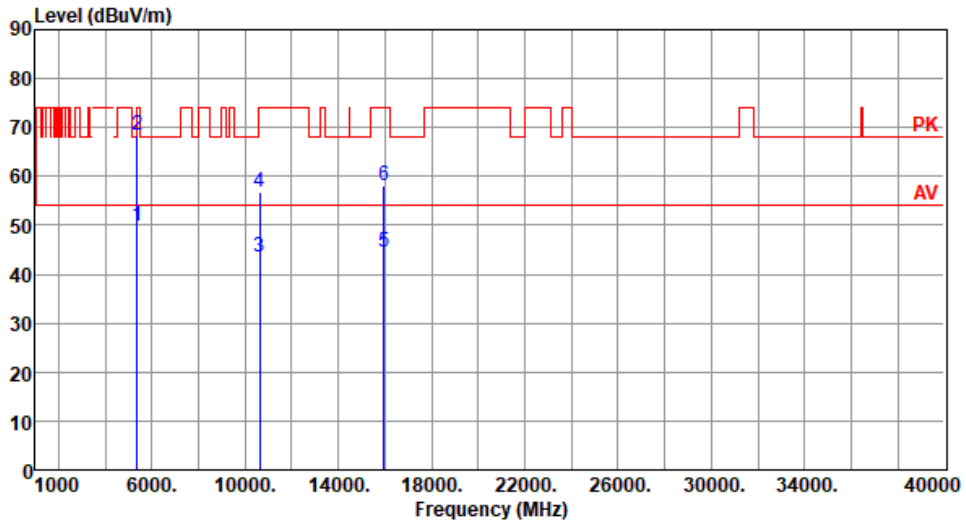


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	52.19	54.00	-1.81	48.22	3.97	Average	100	321
2	5350.00	71.58	74.00	-2.42	67.61	3.97	Peak	100	321
3	10640.00	43.11	54.00	-10.89	28.55	14.56	Average	100	158
4	10640.00	56.42	74.00	-17.58	41.86	14.56	Peak	100	158
5	15960.00	44.56	54.00	-9.44	30.28	14.28	Average	100	158
6	15960.00	57.59	74.00	-16.41	43.31	14.28	Peak	100	158

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

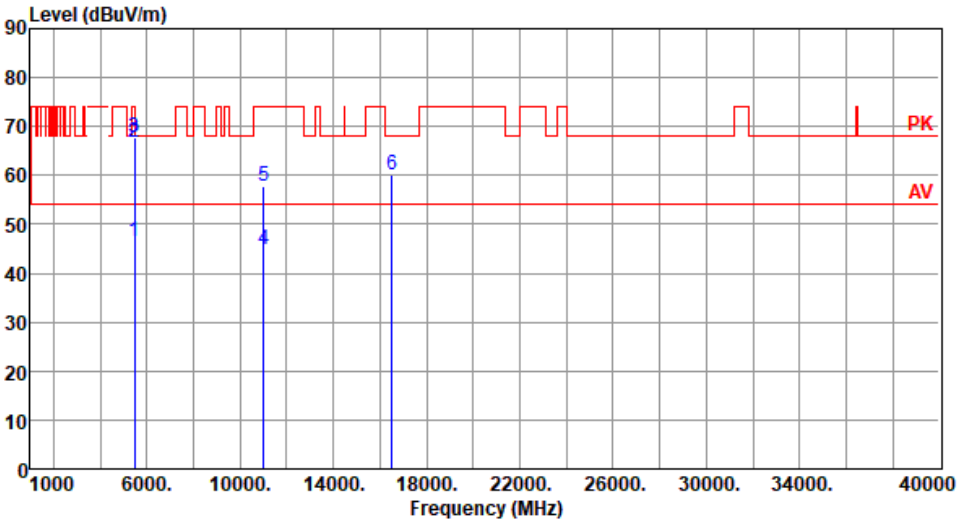


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	49.65	54.00	-4.35	45.68	3.97	Average	100	165
2	5350.00	68.31	74.00	-5.69	64.34	3.97	Peak	100	165
3	10640.00	43.53	54.00	-10.47	28.97	14.56	Average	100	122
4	10640.00	56.78	74.00	-17.22	42.22	14.56	Peak	100	122
5	15960.00	44.59	54.00	-9.41	30.31	14.28	Average	100	122
6	15960.00	58.05	74.00	-15.95	43.77	14.28	Peak	100	122

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

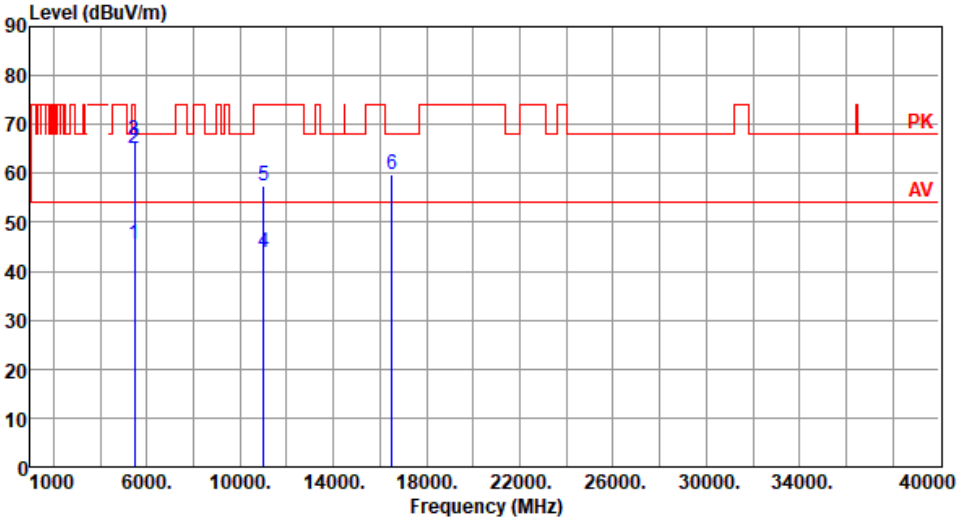


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.59	54.00	-7.41	42.22	4.37	Average	100	342
2	5460.00	66.66	74.00	-7.34	62.29	4.37	Peak	100	342
3	5470.00	67.72	68.20	-0.48	63.33	4.39	Peak	100	342
4	11000.00	44.87	54.00	-9.13	29.71	15.16	Average	100	165
5	11000.00	57.72	74.00	-16.28	42.56	15.16	Peak	100	165
6	16500.00	60.00	68.20	-8.20	43.65	16.35	Peak	100	145

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

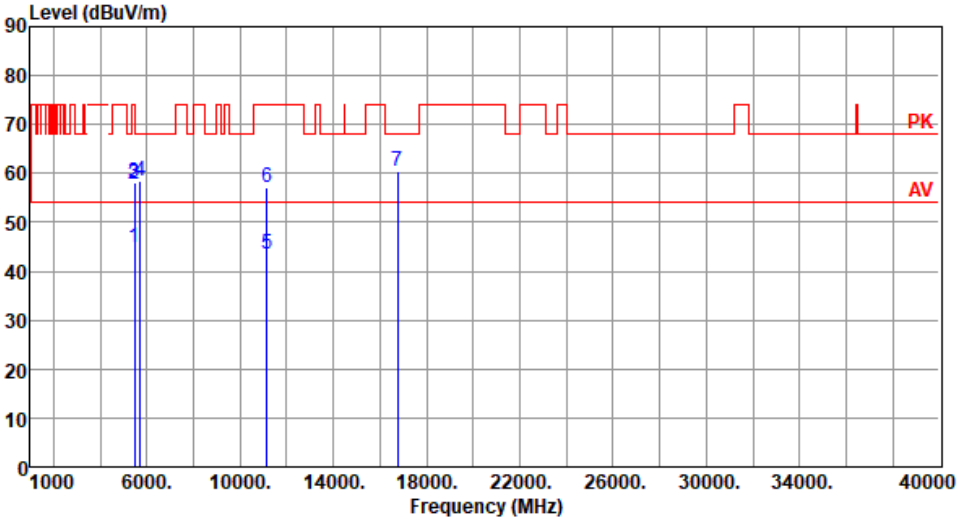


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.63	54.00	-8.37	41.26	4.37	Average	344	118
2	5460.00	64.96	74.00	-9.04	60.59	4.37	Peak	344	118
3	5470.00	66.68	68.20	-1.52	62.29	4.39	Peak	344	118
4	11000.00	43.72	54.00	-10.28	28.56	15.16	Average	100	40
5	11000.00	57.32	74.00	-16.68	42.16	15.16	Peak	100	40
6	16500.00	59.90	68.20	-8.30	43.55	16.35	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)	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

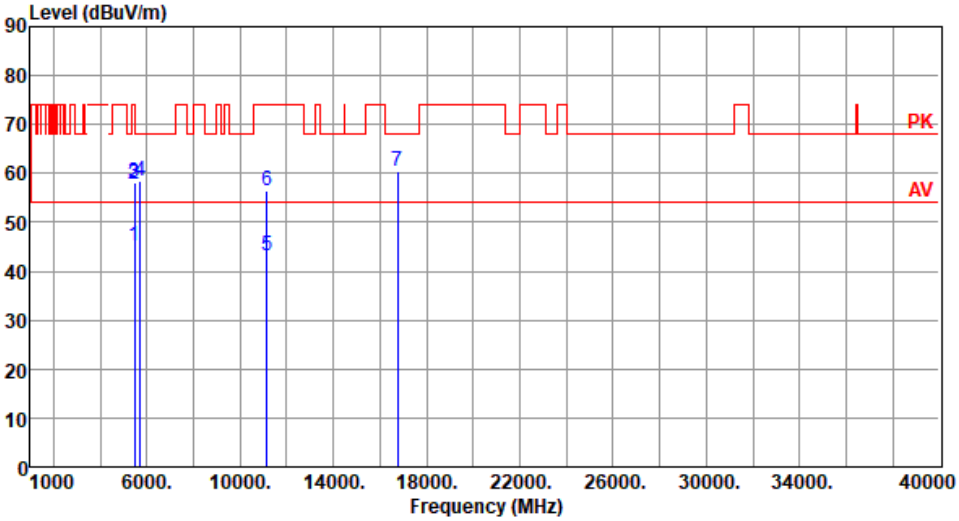


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.46	4.37	Average	100	348
2	5460.00	57.87	74.00	-16.13	53.50	4.37	Peak	100	348
3	5470.00	58.15	68.20	-10.05	53.76	4.39	Peak	100	348
4	5725.00	58.47	68.20	-9.73	53.66	4.81	Peak	100	348
5	11160.00	43.37	54.00	-10.63	28.75	14.62	Average	100	212
6	11160.00	57.09	74.00	-16.91	42.47	14.62	Peak	100	212
7	16740.00	60.29	68.20	-7.91	43.21	17.08	Peak	100	167

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

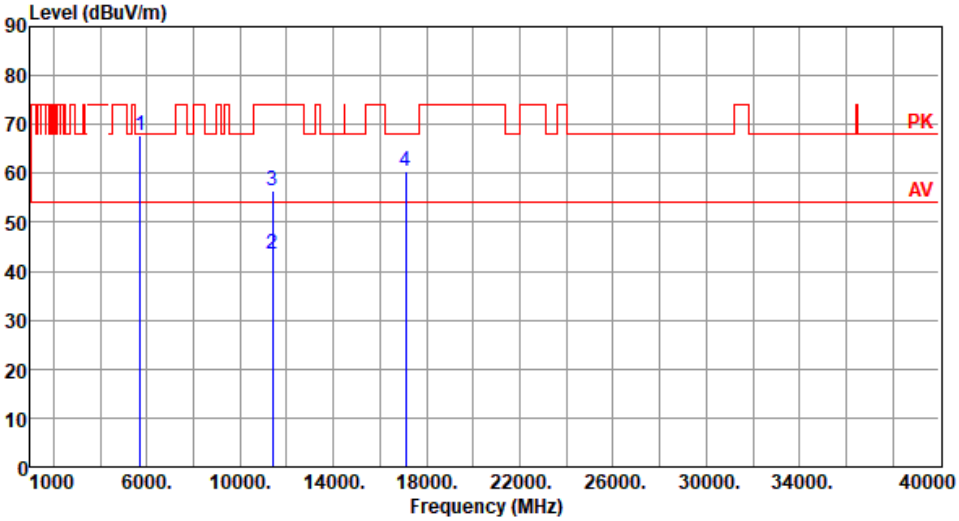


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.15	54.00	-8.85	40.78	4.37	Average	311	125
2	5460.00	57.68	74.00	-16.32	53.31	4.37	Peak	311	125
3	5470.00	57.97	68.20	-10.23	53.58	4.39	Peak	311	125
4	5725.00	58.39	68.20	-9.81	53.58	4.81	Peak	311	125
5	11160.00	43.29	54.00	-10.71	28.67	14.62	Average	100	85
6	11160.00	56.31	74.00	-17.69	41.69	14.62	Peak	100	85
7	16740.00	60.30	68.20	-7.90	43.22	17.08	Peak	100	138

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

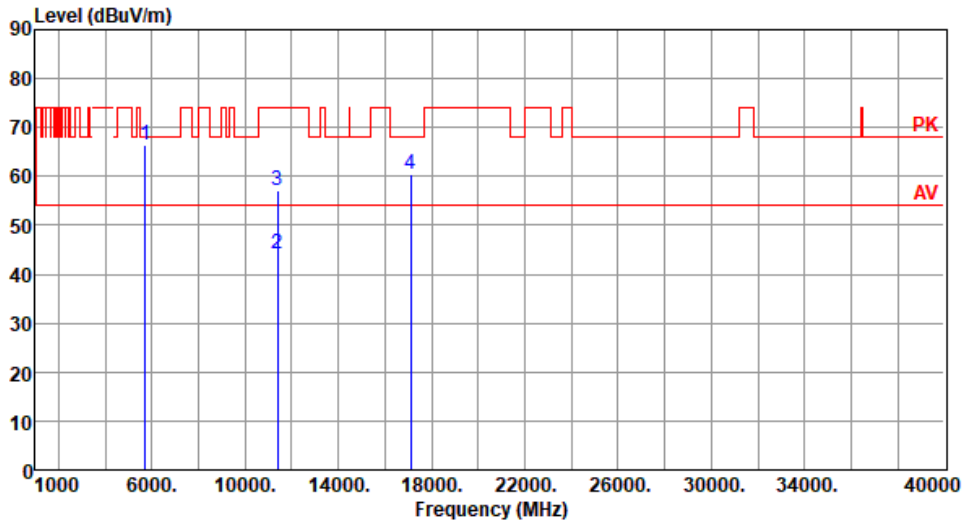


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	67.68	68.20	-0.52	62.87	4.81	Peak	100	308
2	11400.00	43.46	54.00	-10.54	28.61	14.85	Average	100	211
3	11400.00	56.53	74.00	-17.47	41.68	14.85	Peak	100	211
4	17100.00	60.59	68.20	-7.61	43.22	17.37	Peak	100	168

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

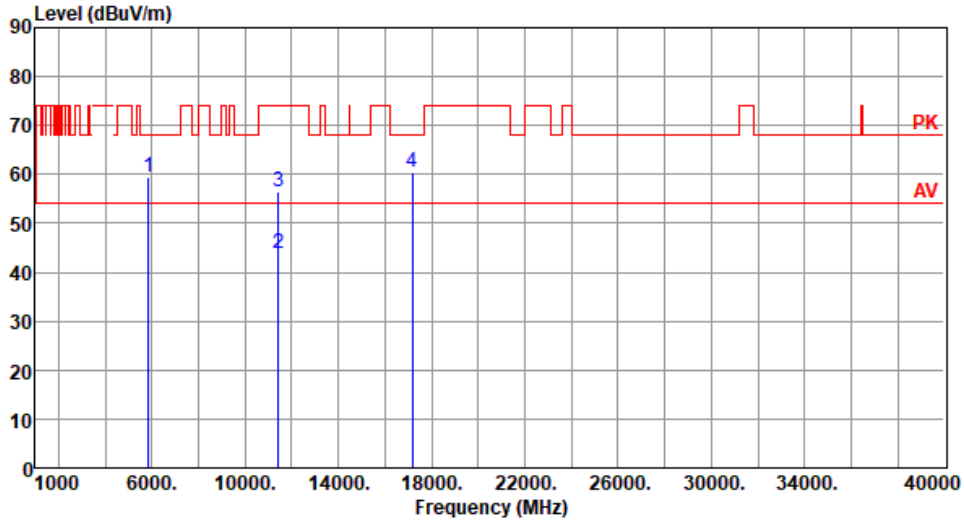


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.40	68.20	-1.80	61.59	4.81	Peak	315	115
2	11400.00	44.07	54.00	-9.93	29.22	14.85	Average	100	168
3	11400.00	57.05	74.00	-16.95	42.20	14.85	Peak	100	168
4	17100.00	60.43	68.20	-7.77	43.06	17.37	Peak	100	225

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

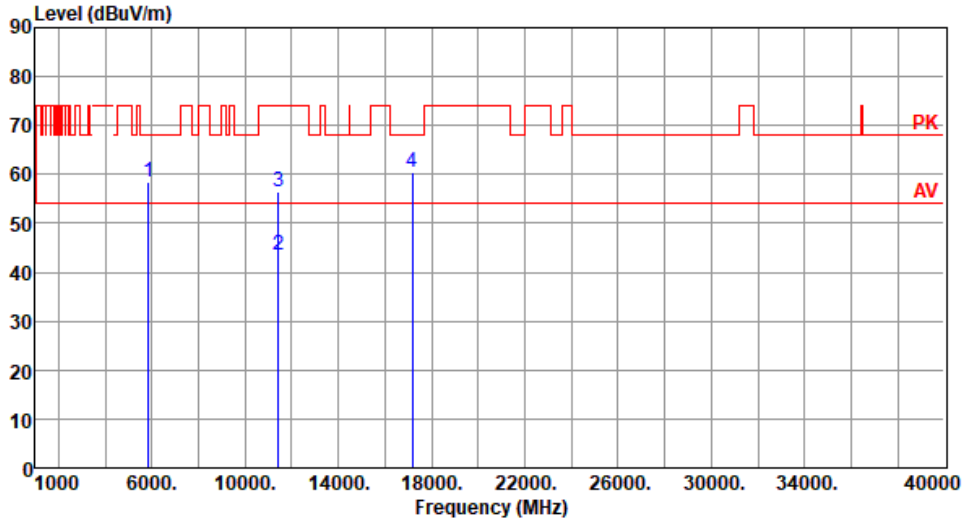


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.30	68.20	-8.90	54.12	5.18	Peak	100	308
2	11440.00	43.77	54.00	-10.23	28.96	14.81	Average	100	135
3	11440.00	56.38	74.00	-17.62	41.57	14.81	Peak	100	135
4	17160.00	60.53	68.20	-7.67	43.11	17.42	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 HE20	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

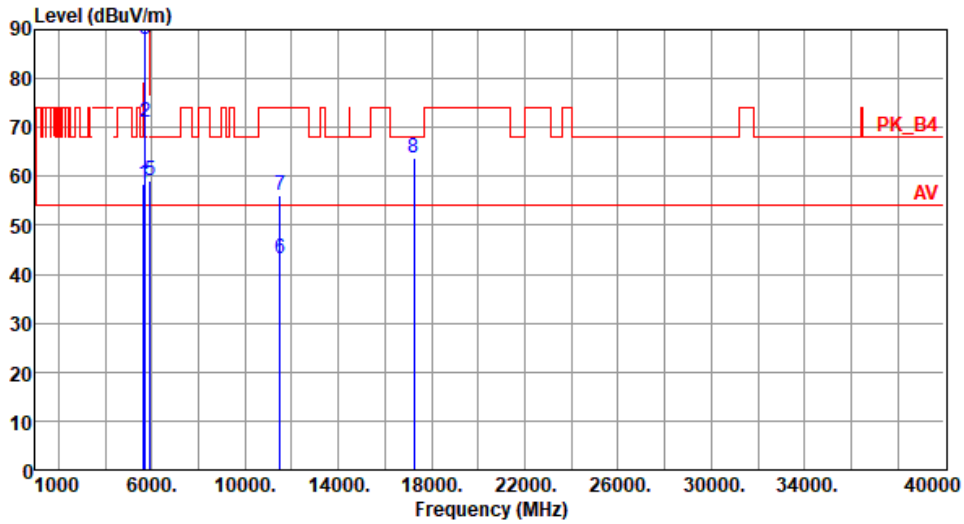


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.46	68.20	-9.74	53.28	5.18	Peak	311	105
2	11440.00	43.56	54.00	-10.44	28.75	14.81	Average	100	75
3	11440.00	56.40	74.00	-17.60	41.59	14.81	Peak	100	75
4	17160.00	60.53	68.20	-7.67	43.11	17.42	Peak	100	143

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

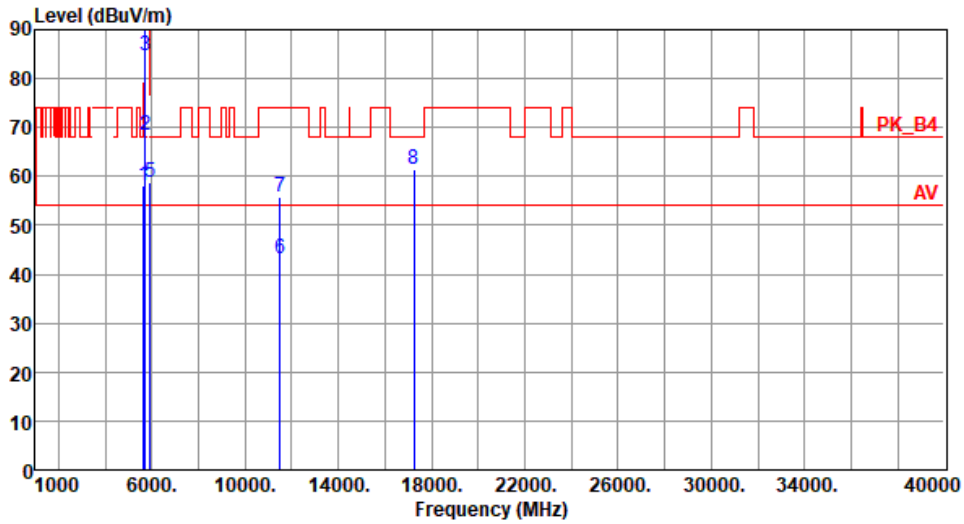


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.58	68.20	-9.62	54.13	4.45	Peak	100	302
2	5700.00	70.90	105.20	-34.30	66.21	4.69	Peak	100	302
3	5720.00	87.92	110.80	-22.88	83.13	4.79	Peak	100	302
4	5725.00	93.96	122.20	-28.24	89.15	4.81	Peak	100	302
5	5925.00	59.23	68.20	-8.97	53.85	5.38	Peak	100	302
6	11490.00	43.30	54.00	-10.70	28.54	14.76	Average	100	170
7	11490.00	56.07	74.00	-17.93	41.31	14.76	Peak	100	170
8	17235.00	63.84	68.20	-4.36	46.29	17.55	Peak	105	32

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

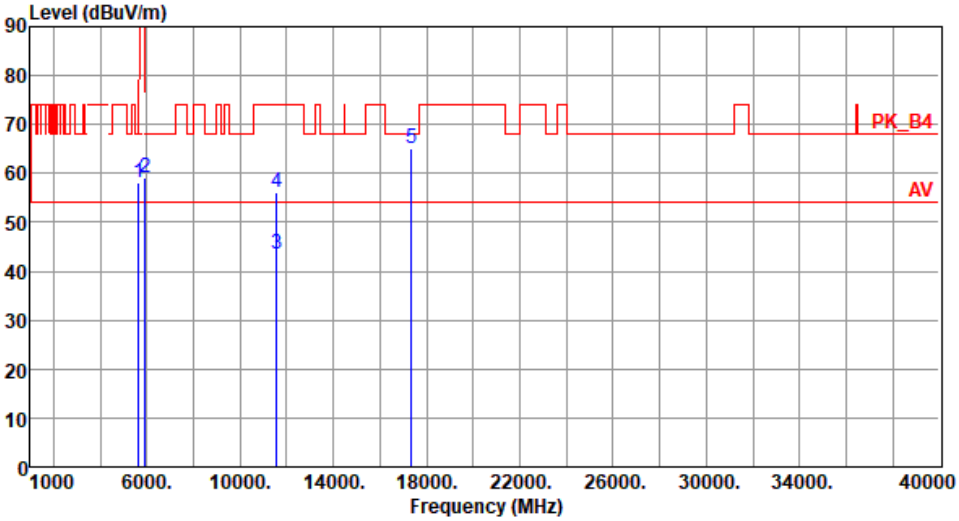


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.01	68.20	-10.19	53.56	4.45	Peak	305	128
2	5700.00	68.44	105.20	-36.76	63.75	4.69	Peak	305	128
3	5720.00	84.75	110.80	-26.05	79.96	4.79	Peak	305	128
4	5725.00	92.06	122.20	-30.14	87.25	4.81	Peak	305	128
5	5925.00	58.65	68.20	-9.55	53.27	5.38	Peak	305	128
6	11490.00	43.19	54.00	-10.81	28.43	14.76	Average	100	143
7	11490.00	55.92	74.00	-18.08	41.16	14.76	Peak	100	143
8	17235.00	61.60	68.20	-6.60	44.05	17.55	Peak	100	153

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

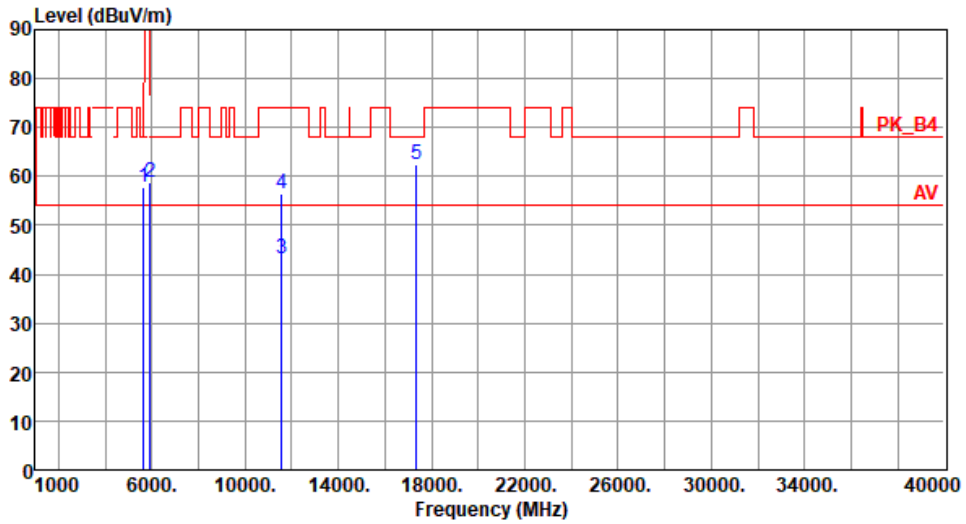


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.02	68.20	-10.18	53.57	4.45	Peak	100	305
2	5925.00	59.06	68.20	-9.14	53.68	5.38	Peak	100	305
3	11570.00	43.44	54.00	-10.56	28.76	14.68	Average	100	180
4	11570.00	56.24	74.00	-17.76	41.56	14.68	Peak	100	180
5	17355.00	64.98	68.20	-3.22	46.87	18.11	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)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

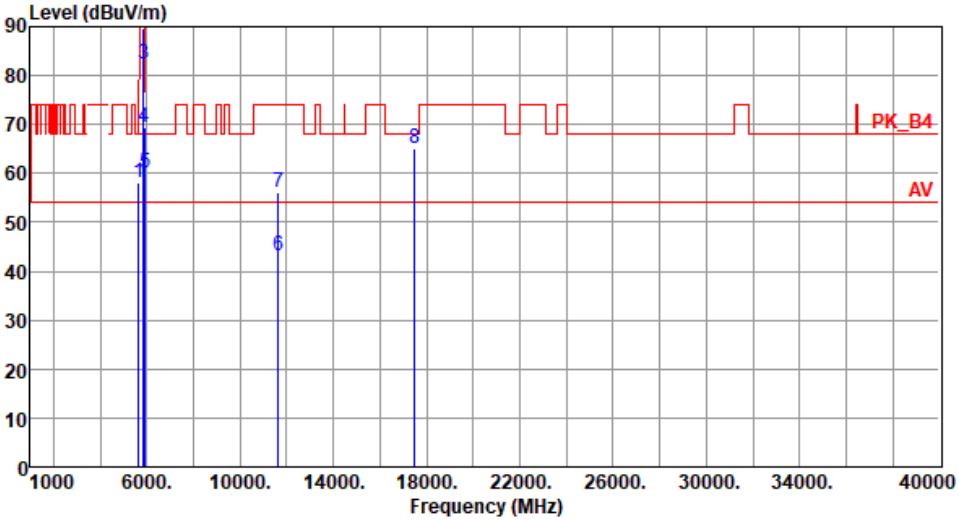


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.74	68.20	-10.46	53.29	4.45	Peak	308	130
2	5925.00	58.63	68.20	-9.57	53.25	5.38	Peak	100	130
3	11570.00	43.24	54.00	-10.76	28.56	14.68	Average	100	166
4	11570.00	56.36	74.00	-17.64	41.68	14.68	Peak	100	166
5	17355.00	62.42	68.20	-5.78	44.31	18.11	Peak	100	163

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

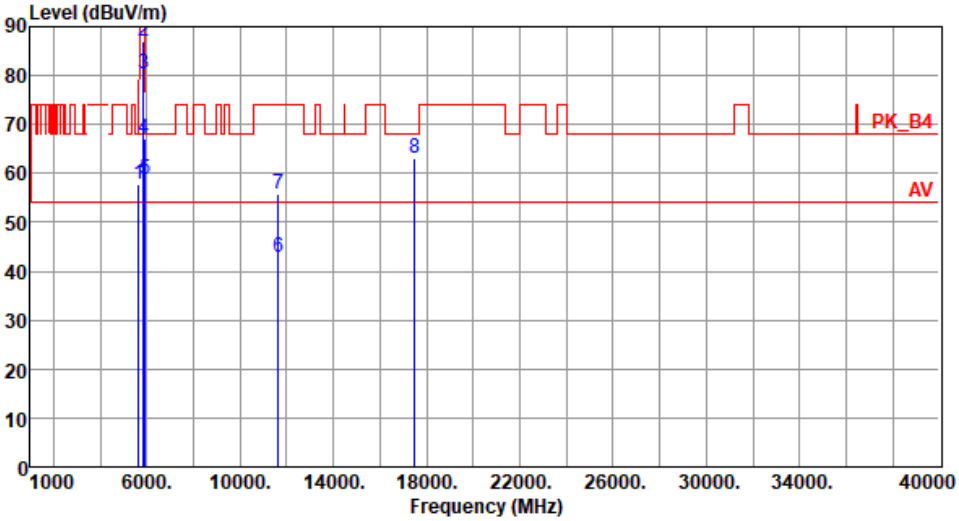


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.04	68.20	-10.16	53.59	4.45	Peak	100	301
2	5850.00	89.68	122.20	-32.52	84.50	5.18	Peak	100	301
3	5855.00	82.51	110.80	-28.29	77.32	5.19	Peak	100	301
4	5875.00	69.35	105.20	-35.85	64.07	5.28	Peak	100	301
5	5925.00	60.02	68.20	-8.18	54.64	5.38	Peak	100	301
6	11650.00	43.10	54.00	-10.90	28.65	14.45	Average	100	182
7	11650.00	56.10	74.00	-17.90	41.65	14.45	Peak	100	182
8	17475.00	65.07	68.20	-3.13	46.23	18.84	Peak	100	35

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):68



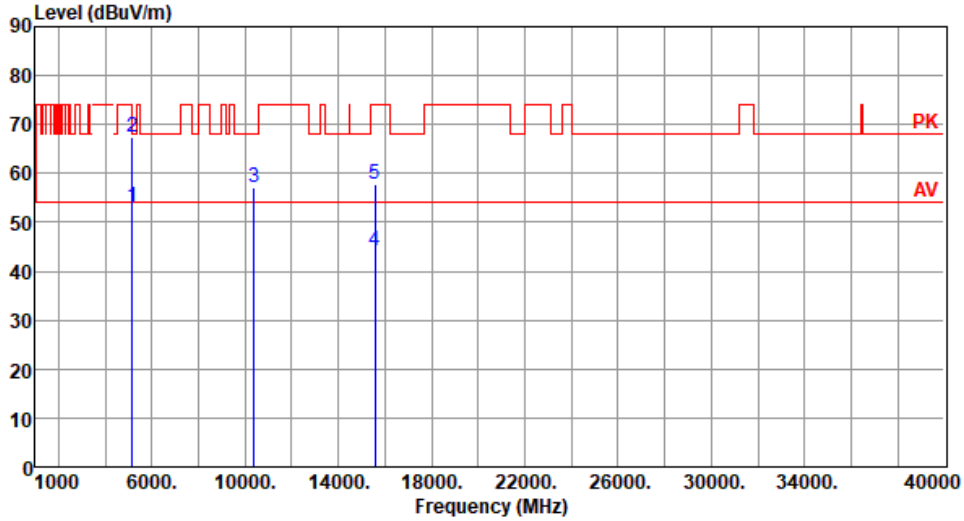
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.87	68.20	-10.33	53.42	4.45	Peak	306	132
2	5850.00	87.14	122.20	-35.06	81.96	5.18	Peak	306	132
3	5855.00	80.25	110.80	-30.55	75.06	5.19	Peak	306	132
4	5875.00	67.24	105.20	-37.96	61.96	5.28	Peak	306	132
5	5925.00	58.93	68.20	-9.27	53.55	5.38	Peak	306	132
6	11650.00	42.98	54.00	-11.02	28.53	14.45	Average	100	165
7	11650.00	55.80	74.00	-18.20	41.35	14.45	Peak	100	165
8	17475.00	63.23	68.20	-4.97	44.39	18.84	Peak	100	132

Note 1: Emission Level (dBuV/m) = SA Reading (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 :Akun Chung Temperature(℃):23 Humidity(%):63

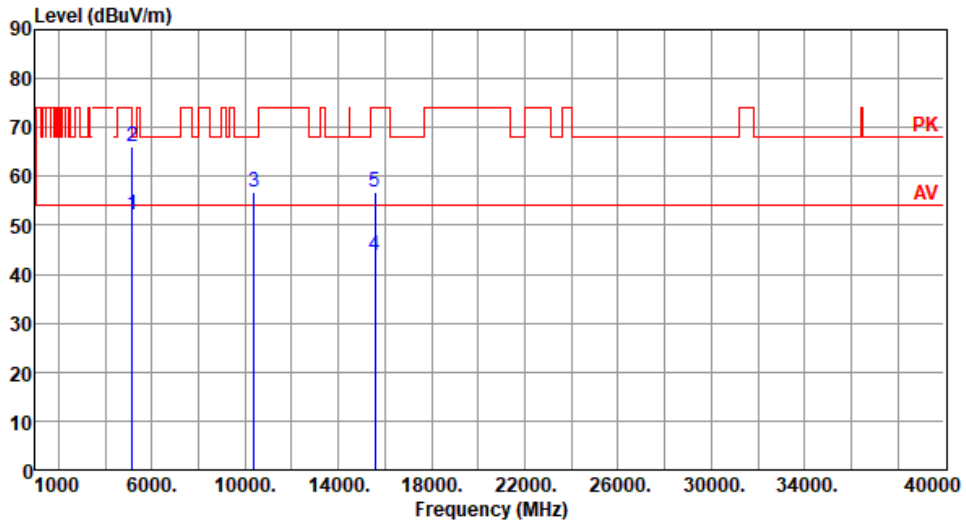


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.30	54.00	-0.70	48.92	4.38	Average	100	315
2	5150.00	67.41	74.00	-6.59	63.03	4.38	Peak	100	315
3	10380.00	57.01	68.20	-11.19	42.56	14.45	Peak	100	155
4	15570.00	44.04	54.00	-9.96	29.45	14.59	Average	100	178
5	15570.00	57.64	74.00	-16.36	43.05	14.59	Peak	100	178

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

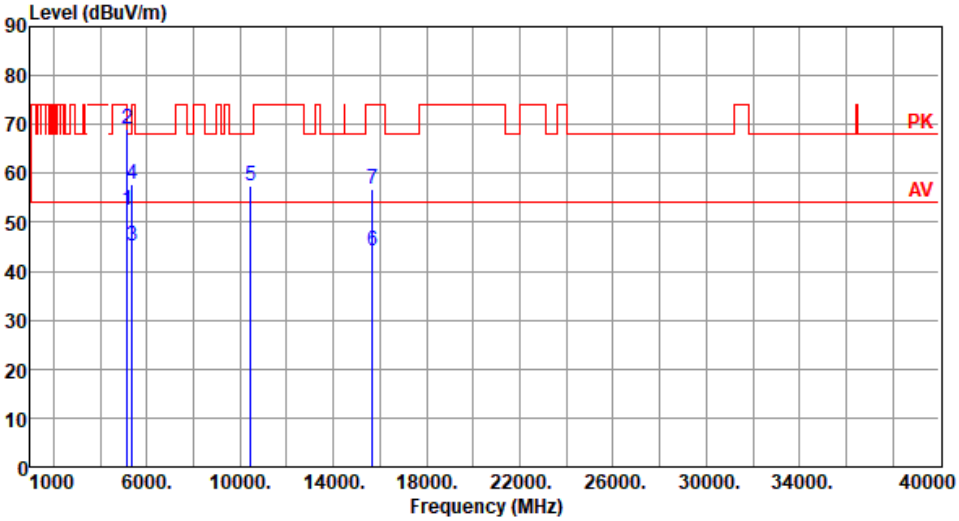


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.24	54.00	-1.76	47.86	4.38	Average	100	333
2	5150.00	65.93	74.00	-8.07	61.55	4.38	Peak	100	333
3	10380.00	56.68	68.20	-11.52	42.23	14.45	Peak	100	60
4	15570.00	43.74	54.00	-10.26	29.15	14.59	Average	100	90
5	15570.00	56.85	74.00	-17.15	42.26	14.59	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 HE40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By :Aska Huang Temperature(℃):23 Humidity(%):66

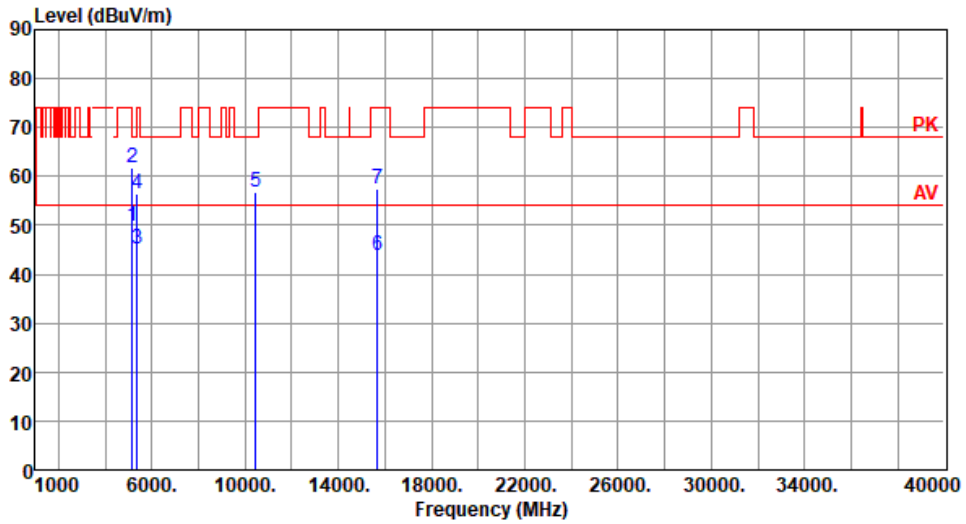


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.43	54.00	-1.57	48.05	4.38	Average	100	323
2	5150.00	68.93	74.00	-5.07	64.55	4.38	Peak	100	323
3	5350.00	45.24	54.00	-8.76	41.27	3.97	Average	100	323
4	5350.00	57.93	74.00	-16.07	53.96	3.97	Peak	100	323
5	10460.00	57.29	68.20	-10.91	42.75	14.54	Peak	100	155
6	15690.00	44.10	54.00	-9.90	29.66	14.44	Average	100	167
7	15690.00	56.95	74.00	-17.05	42.51	14.44	Peak	100	167

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

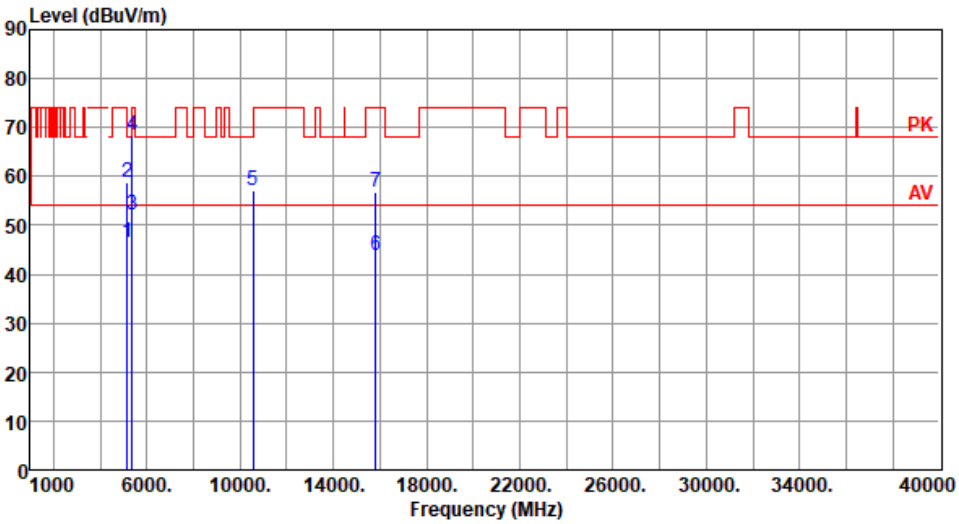


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.93	54.00	-4.07	45.55	4.38	Average	108	319
2	5150.00	61.91	74.00	-12.09	57.53	4.38	Peak	108	319
3	5350.00	45.32	54.00	-8.68	41.35	3.97	Average	108	319
4	5350.00	56.34	74.00	-17.66	52.37	3.97	Peak	108	319
5	10460.00	56.92	68.20	-11.28	42.38	14.54	Peak	100	151
6	15690.00	43.68	54.00	-10.32	29.24	14.44	Average	100	179
7	15690.00	57.55	74.00	-16.45	43.11	14.44	Peak	100	179

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

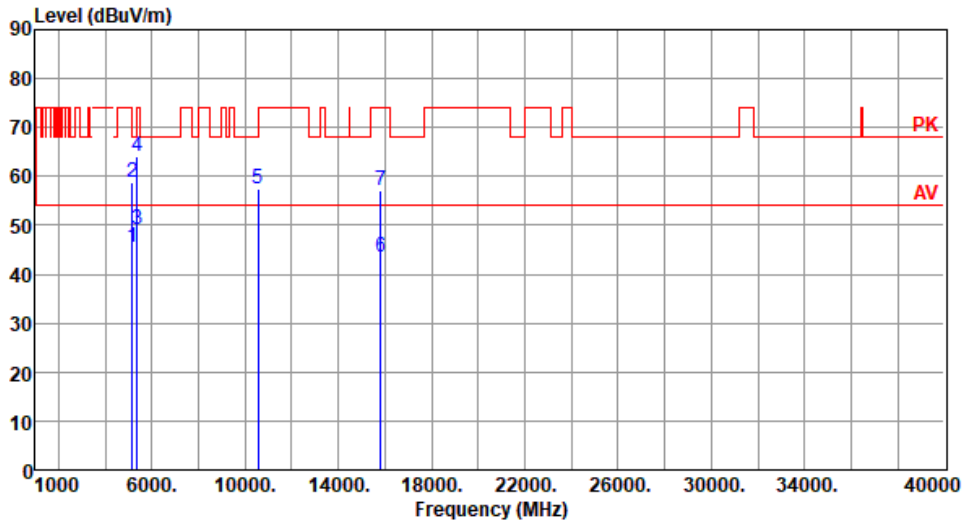


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.59	54.00	-7.41	42.21	4.38	Average	100	319
2	5150.00	58.69	74.00	-15.31	54.31	4.38	Peak	100	319
3	5350.00	52.12	54.00	-1.88	48.15	3.97	Average	100	319
4	5350.00	68.30	74.00	-5.70	64.33	3.97	Peak	100	319
5	10540.00	57.25	68.20	-10.95	42.68	14.57	Peak	100	144
6	15810.00	43.69	54.00	-10.31	29.56	14.13	Average	100	156
7	15810.00	56.71	74.00	-17.29	42.58	14.13	Peak	100	156

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

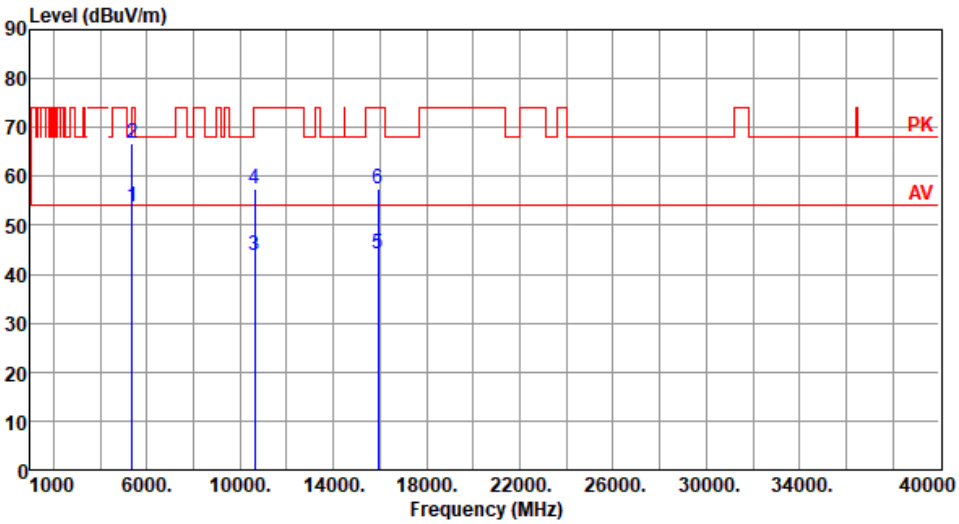


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.47	54.00	-8.53	41.09	4.38	Average	100	316
2	5150.00	58.81	74.00	-15.19	54.43	4.38	Peak	100	316
3	5350.00	49.09	54.00	-4.91	45.12	3.97	Average	100	316
4	5350.00	64.09	74.00	-9.91	60.12	3.97	Peak	100	316
5	10540.00	57.32	68.20	-10.88	42.75	14.57	Peak	100	163
6	15810.00	43.44	54.00	-10.56	29.31	14.13	Average	100	192
7	15810.00	57.06	74.00	-16.94	42.93	14.13	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 HE40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):63

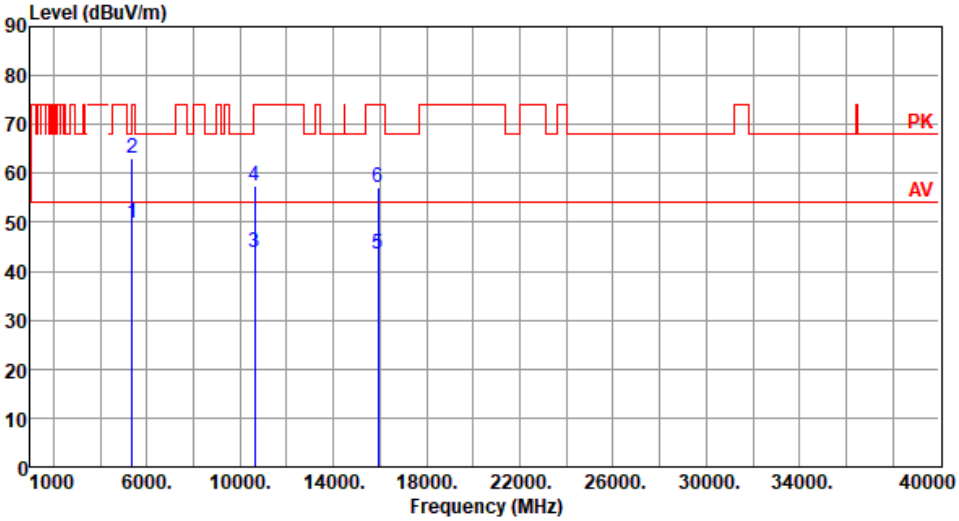


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	53.67	54.00	-0.33	49.70	3.97	Average	100	344
2	5350.00	66.73	74.00	-7.27	62.76	3.97	Peak	100	344
3	10620.00	43.69	54.00	-10.31	29.12	14.57	Average	100	136
4	10620.00	57.45	74.00	-16.55	42.88	14.57	Peak	100	136
5	15930.00	44.01	54.00	-9.99	29.76	14.25	Average	100	160
6	15930.00	57.36	74.00	-16.64	43.11	14.25	Peak	100	160

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

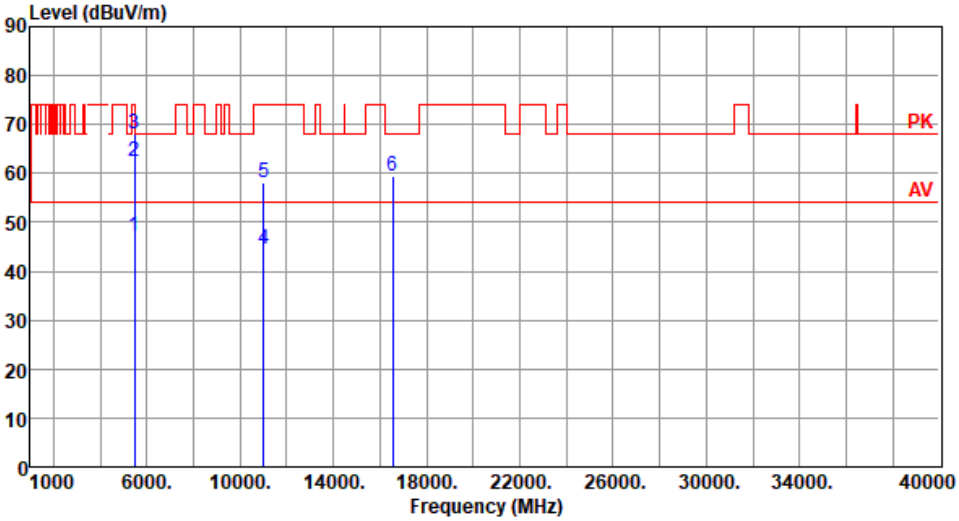


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	49.92	54.00	-4.08	45.95	3.97	Average	100	178
2	5350.00	63.26	74.00	-10.74	59.29	3.97	Peak	100	178
3	10620.00	43.75	54.00	-10.25	29.18	14.57	Average	100	188
4	10620.00	57.42	74.00	-16.58	42.85	14.57	Peak	100	188
5	15930.00	43.51	54.00	-10.49	29.26	14.25	Average	100	40
6	15930.00	57.11	74.00	-16.89	42.86	14.25	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	ax HE40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):63

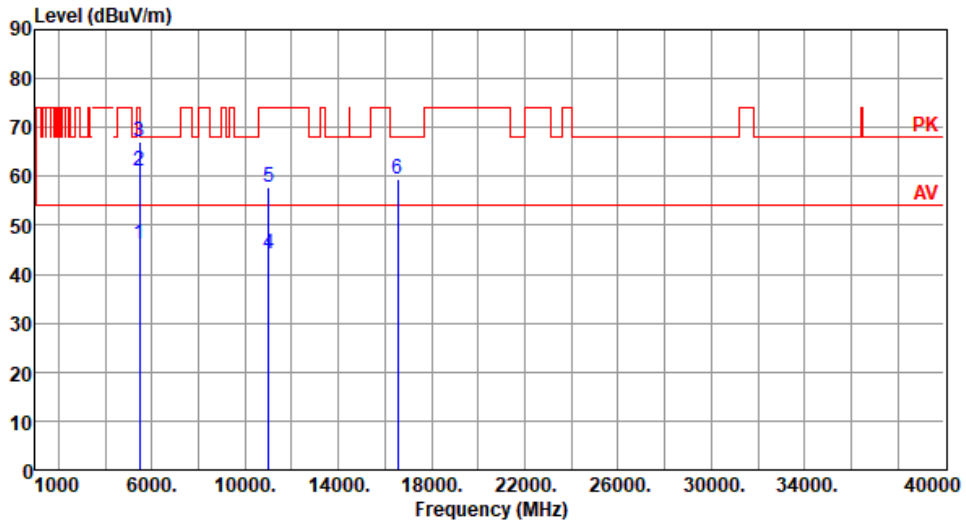


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.11	54.00	-6.89	42.74	4.37	Average	103	342
2	5460.00	62.36	74.00	-11.64	57.99	4.37	Peak	103	342
3	5470.00	68.15	68.20	-0.05	63.76	4.39	Peak	103	342
4	11020.00	44.66	54.00	-9.34	29.56	15.10	Average	100	144
5	11020.00	58.25	74.00	-15.75	43.15	15.10	Peak	100	144
6	16530.00	59.47	68.20	-8.73	43.16	16.31	Peak	100	179

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

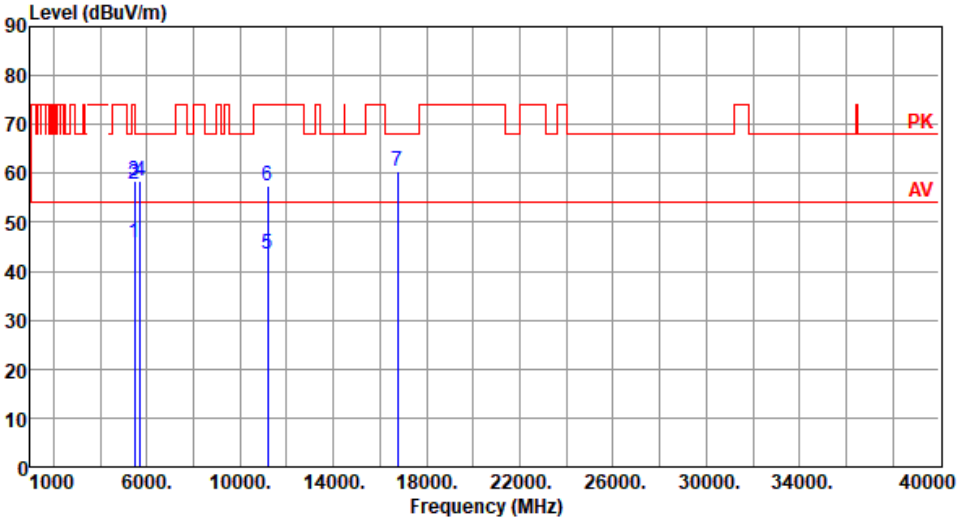


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.26	54.00	-7.74	41.89	4.37	Average	338	117
2	5460.00	61.02	74.00	-12.98	56.65	4.37	Peak	338	117
3	5470.00	66.94	68.20	-1.26	62.55	4.39	Peak	338	117
4	11020.00	44.25	54.00	-9.75	29.15	15.10	Average	100	233
5	11020.00	57.91	74.00	-16.09	42.81	15.10	Peak	100	233
6	16530.00	59.37	68.20	-8.83	43.06	16.31	Peak	100	156

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

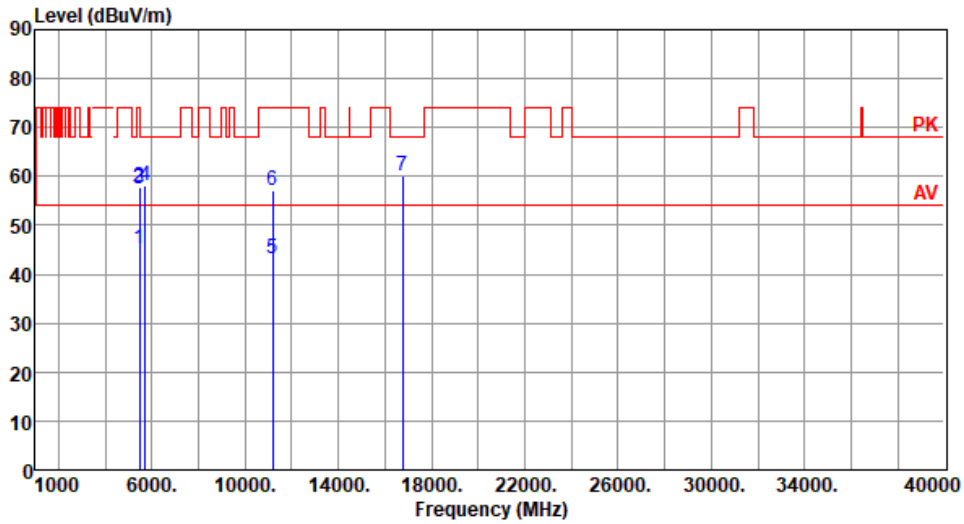


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.80	54.00	-8.20	41.43	4.37	Average	100	342
2	5460.00	57.83	74.00	-16.17	53.46	4.37	Peak	100	342
3	5470.00	58.57	68.20	-9.63	54.18	4.39	Peak	100	342
4	5725.00	58.45	68.20	-9.75	53.64	4.81	Peak	100	342
5	11180.00	43.46	54.00	-10.54	28.93	14.53	Average	100	175
6	11180.00	57.32	74.00	-16.68	42.79	14.53	Peak	100	175
7	16770.00	60.40	68.20	-7.80	43.18	17.22	Peak	100	211

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

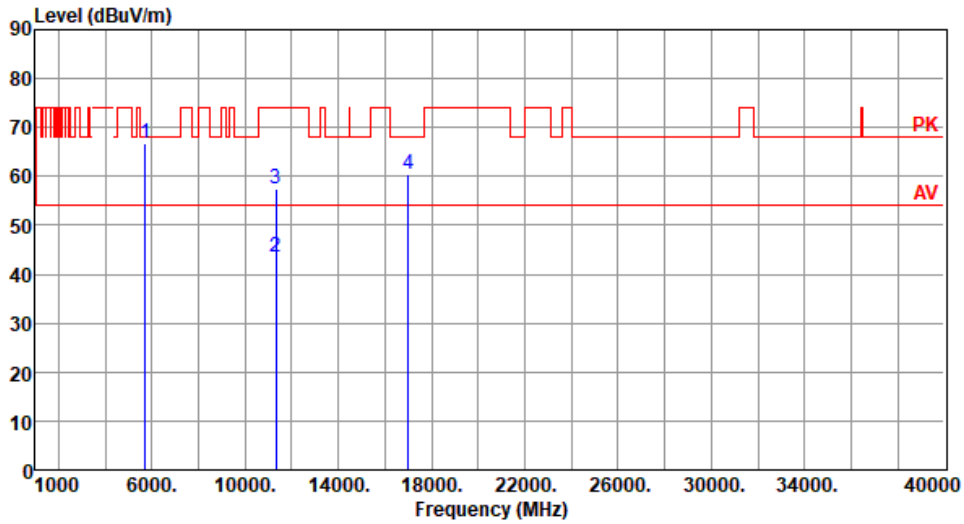


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.32	54.00	-8.68	40.95	4.37	Average	305	128
2	5460.00	57.72	74.00	-16.28	53.35	4.37	Peak	305	128
3	5470.00	57.61	68.20	-10.59	53.22	4.39	Peak	305	128
4	5725.00	58.25	68.20	-9.95	53.44	4.81	Peak	305	128
5	11180.00	43.31	54.00	-10.69	28.78	14.53	Average	100	216
6	11180.00	57.16	74.00	-16.84	42.63	14.53	Peak	100	216
7	16770.00	59.98	68.20	-8.22	42.76	17.22	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 HE40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

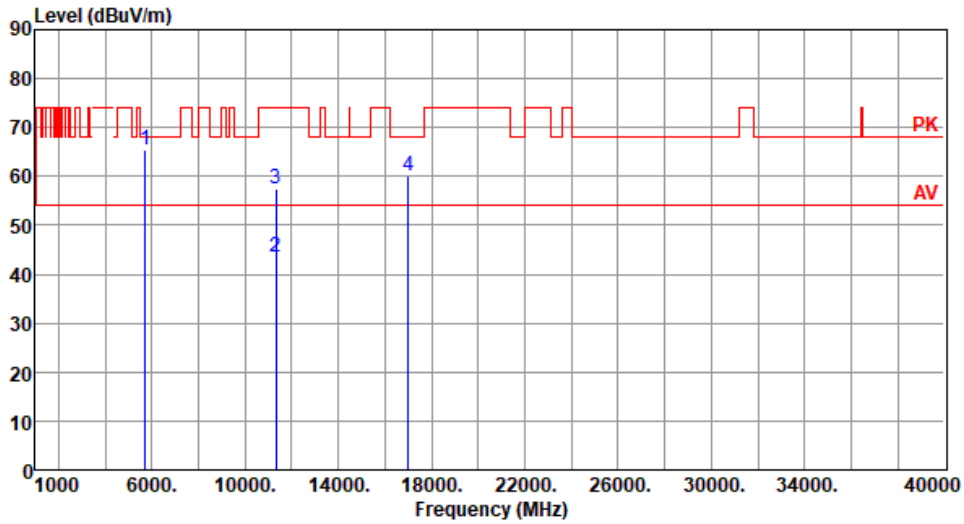


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.76	68.20	-1.44	61.95	4.81	Peak	100	312
2	11340.00	43.34	54.00	-10.66	28.67	14.67	Average	100	116
3	11340.00	57.45	74.00	-16.55	42.78	14.67	Peak	100	116
4	17010.00	60.46	68.20	-7.74	43.16	17.30	Peak	100	205

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

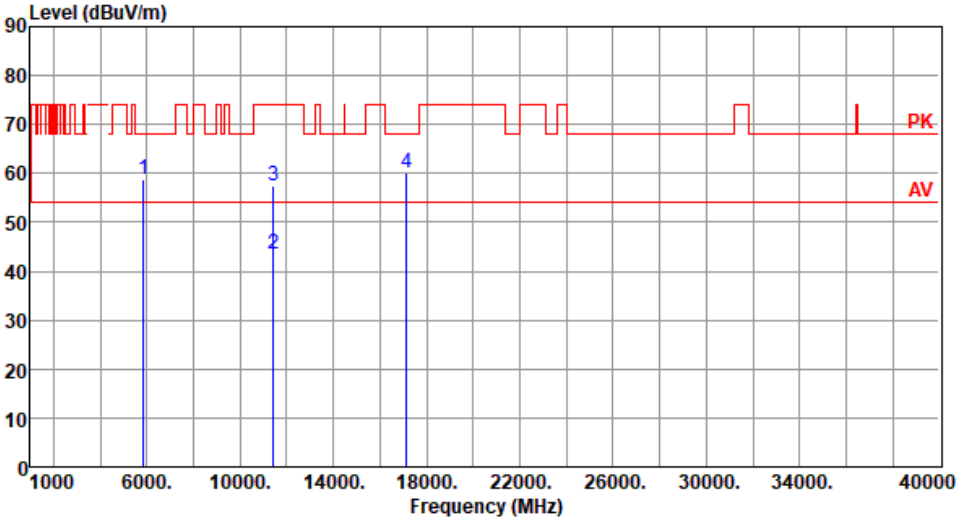


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	65.39	68.20	-2.81	60.58	4.81	Peak	339	113
2	11340.00	43.65	54.00	-10.35	28.98	14.67	Average	100	163
3	11340.00	57.43	74.00	-16.57	42.76	14.67	Peak	100	163
4	17010.00	60.19	68.20	-8.01	42.89	17.30	Peak	100	267

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

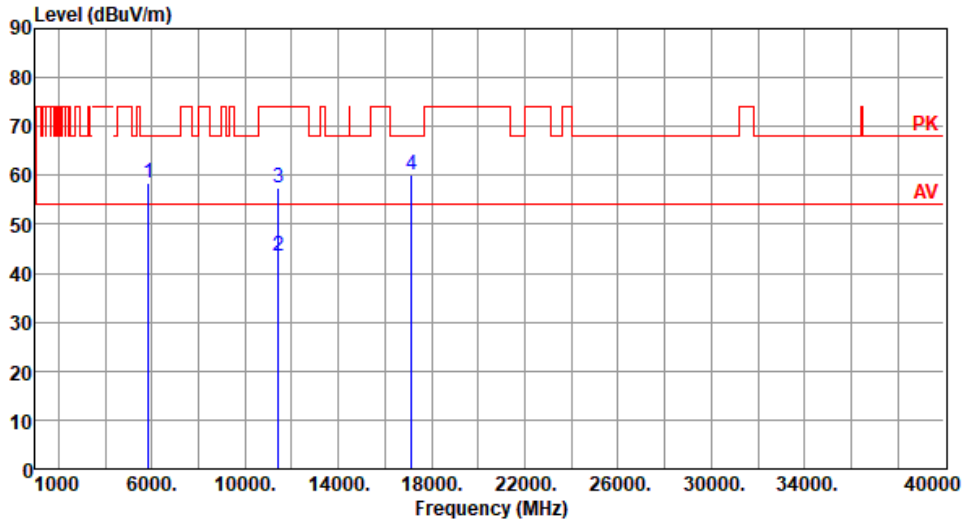


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.62	68.20	-9.58	53.44	5.18	Peak	100	309
2	11420.00	43.61	54.00	-10.39	28.78	14.83	Average	100	167
3	11420.00	57.47	74.00	-16.53	42.64	14.83	Peak	100	167
4	17130.00	60.25	68.20	-7.95	42.85	17.40	Peak	100	197

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

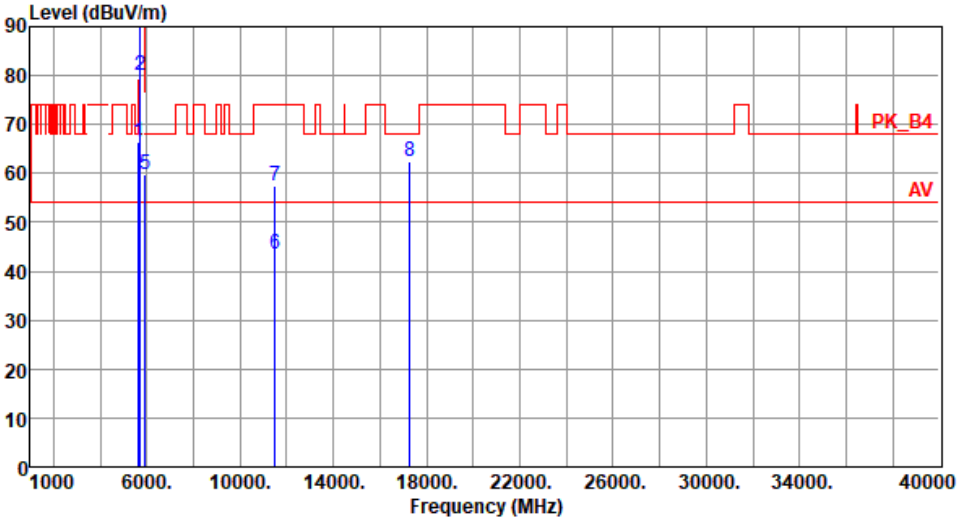


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.46	68.20	-9.74	53.28	5.18	Peak	311	136
2	11420.00	43.48	54.00	-10.52	28.65	14.83	Average	100	235
3	11420.00	57.41	74.00	-16.59	42.58	14.83	Peak	100	235
4	17130.00	60.18	68.20	-8.02	42.78	17.40	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)	5755
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

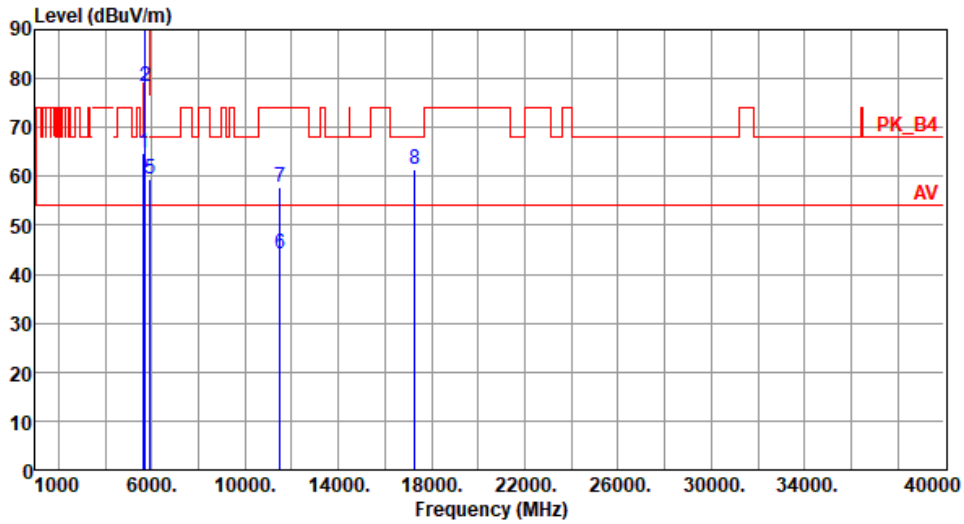


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	66.53	68.20	-1.67	62.08	4.45	Peak	100	297
2	5700.00	80.08	105.20	-25.12	75.39	4.69	Peak	100	297
3	5720.00	92.17	110.80	-18.63	87.38	4.79	Peak	100	297
4	5725.00	94.25	122.20	-27.95	89.44	4.81	Peak	100	297
5	5925.00	59.64	68.20	-8.56	54.26	5.38	Peak	100	297
6	11510.00	43.62	54.00	-10.38	28.88	14.74	Average	100	174
7	11510.00	57.41	74.00	-16.59	42.67	14.74	Peak	100	174
8	17265.00	62.59	68.20	-5.61	44.95	17.64	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 HE40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

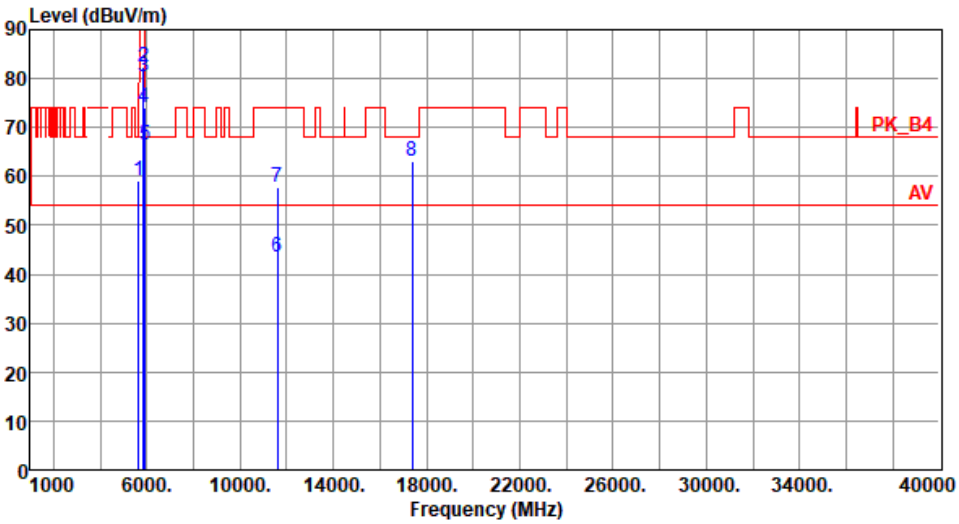


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	64.68	68.20	-3.52	60.23	4.45	Peak	276	265
2	5700.00	78.25	105.20	-26.95	73.56	4.69	Peak	276	265
3	5720.00	90.25	110.80	-20.55	85.46	4.79	Peak	276	265
4	5725.00	92.40	122.20	-29.80	87.59	4.81	Peak	276	265
5	5925.00	59.40	68.20	-8.80	54.02	5.38	Peak	276	265
6	11510.00	44.26	54.00	-9.74	29.52	14.74	Average	100	168
7	11510.00	57.85	74.00	-16.15	43.11	14.74	Peak	100	168
8	17265.00	61.49	68.20	-6.71	43.85	17.64	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 HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):68

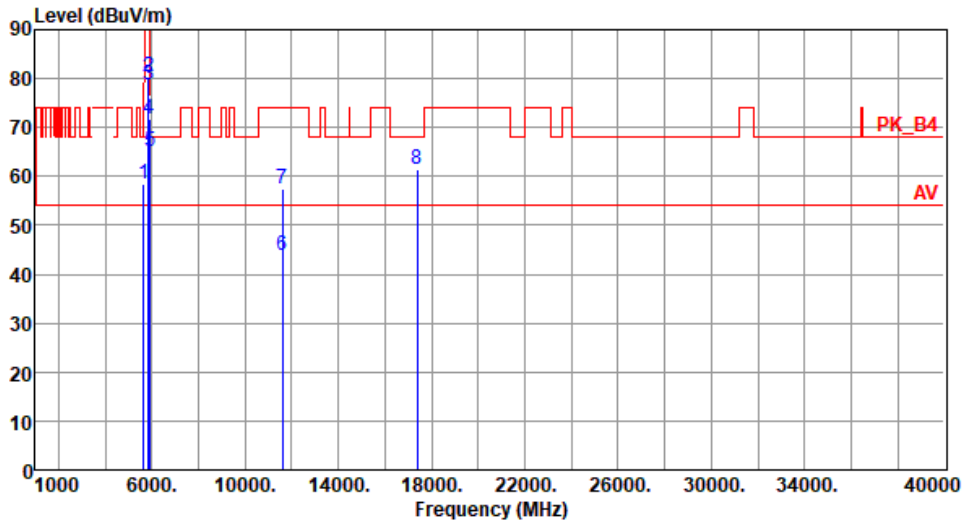


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.05	68.20	-9.15	54.60	4.45	Peak	106	294
2	5850.00	82.43	122.20	-39.77	77.25	5.18	Peak	106	294
3	5855.00	80.29	110.80	-30.51	75.10	5.19	Peak	106	294
4	5875.00	74.11	105.20	-31.09	68.83	5.28	Peak	106	294
5	5925.00	66.53	68.20	-1.67	61.15	5.38	Peak	106	294
6	11590.00	43.52	54.00	-10.48	28.86	14.66	Average	100	173
7	11590.00	57.64	74.00	-16.36	42.98	14.66	Peak	100	173
8	17385.00	63.06	68.20	-5.14	44.75	18.31	Peak	100	234

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68



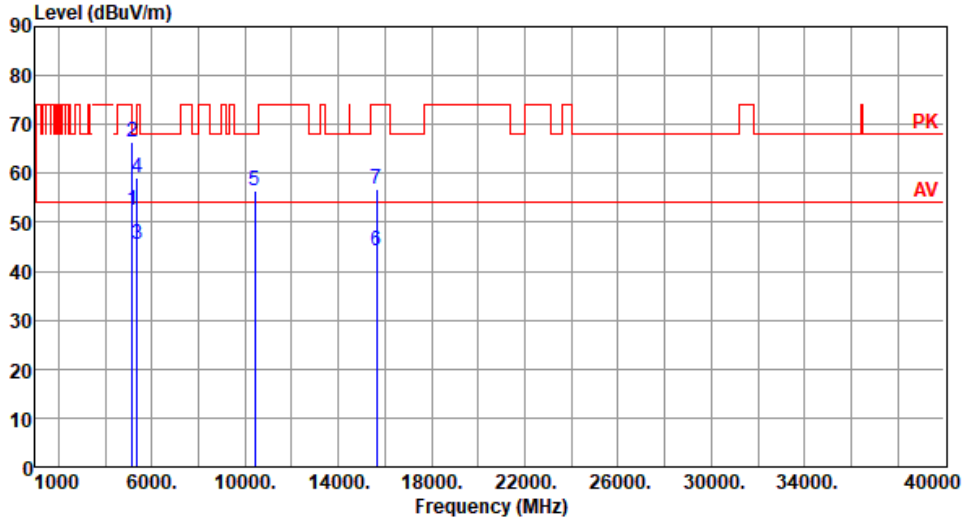
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.61	68.20	-9.59	54.16	4.45	Peak	275	269
2	5850.00	80.49	122.20	-41.71	75.31	5.18	Peak	275	269
3	5855.00	78.66	110.80	-32.14	73.47	5.19	Peak	275	269
4	5875.00	71.77	105.20	-33.43	66.49	5.28	Peak	275	269
5	5925.00	65.06	68.20	-3.14	59.68	5.38	Peak	275	269
6	11590.00	43.79	54.00	-10.21	29.13	14.66	Average	100	122
7	11590.00	57.57	74.00	-16.43	42.91	14.66	Peak	100	122
8	17385.00	61.34	68.20	-6.86	43.03	18.31	Peak	100	178

Note 1: Emission Level (dBuV/m) = SA Reading (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 :Aska Huang Temperature(℃):23 Humidity(%):66

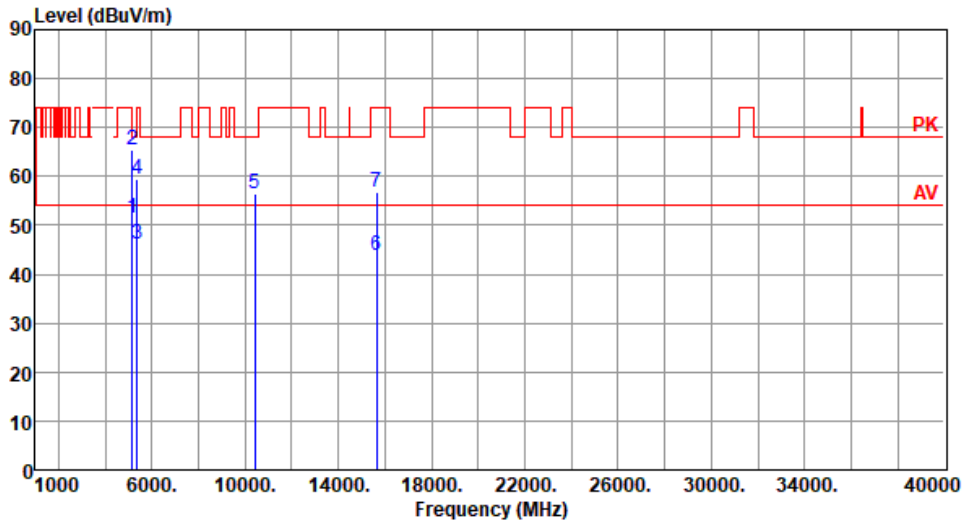


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	52.47	54.00	-1.53	48.09	4.38	Average	100	48
2	5150.00	66.33	74.00	-7.67	61.95	4.38	Peak	100	48
3	5350.00	45.48	54.00	-8.52	41.51	3.97	Average	100	48
4	5350.00	59.22	74.00	-14.78	55.25	3.97	Peak	100	48
5	10420.00	56.46	68.20	-11.74	41.96	14.50	Peak	100	142
6	15630.00	44.28	54.00	-9.72	29.78	14.50	Average	100	198
7	15630.00	56.72	74.00	-17.28	42.22	14.50	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 HE80	Test Freq. (MHz)	5210
Polarization	Vertical		

Test By :Aska Huang Temperature(℃):23 Humidity(%):66

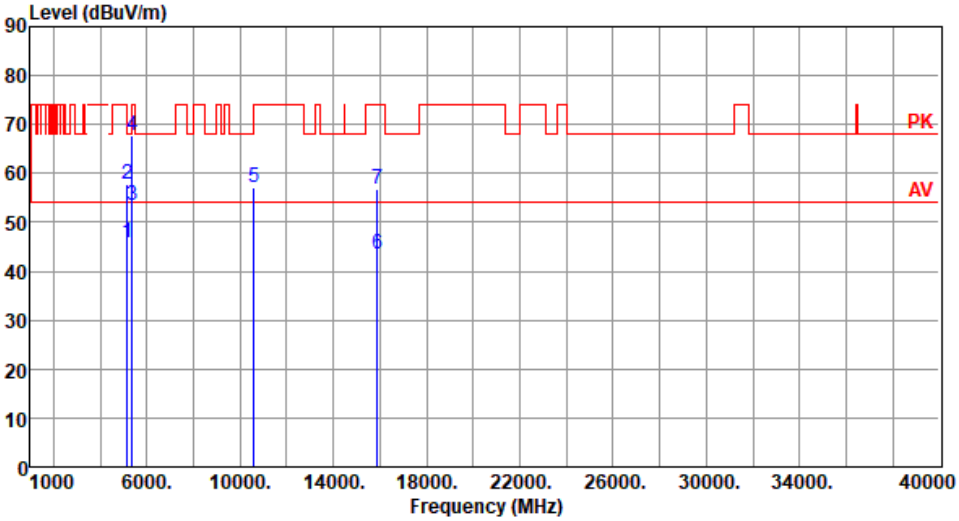


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	51.47	54.00	-2.53	47.09	4.38	Average	111	331
2	5150.00	65.27	74.00	-8.73	60.89	4.38	Peak	111	331
3	5350.00	46.01	54.00	-7.99	42.04	3.97	Average	111	331
4	5350.00	59.32	74.00	-14.68	55.35	3.97	Peak	111	331
5	10420.00	56.38	68.20	-11.82	41.88	14.50	Peak	100	68
6	15630.00	43.81	54.00	-10.19	29.31	14.50	Average	100	246
7	15630.00	56.81	74.00	-17.19	42.31	14.50	Peak	100	246

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

Modulation	ax HE80	Test Freq. (MHz)	5290
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):63

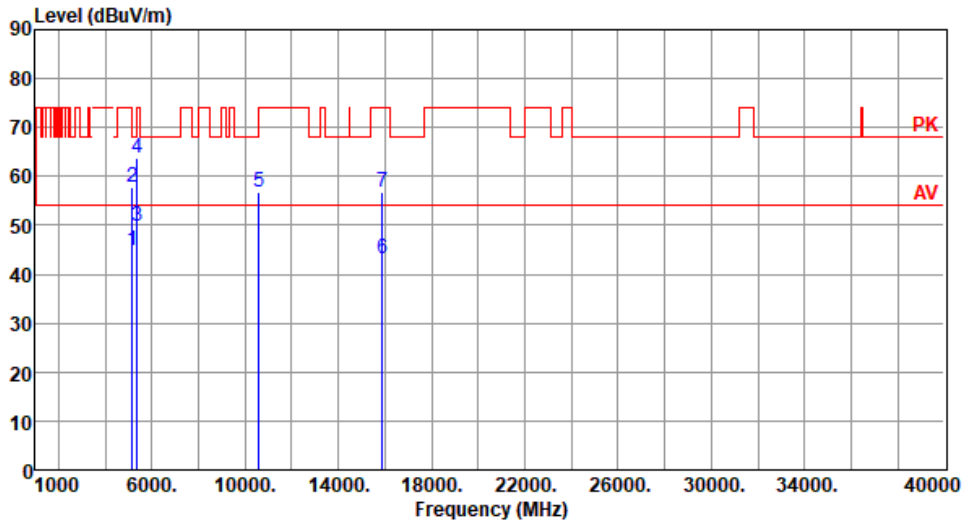


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.80	54.00	-8.20	41.42	4.38	Average	100	313
2	5150.00	57.86	74.00	-16.14	53.48	4.38	Peak	100	313
3	5350.00	53.39	54.00	-0.61	49.42	3.97	Average	100	313
4	5350.00	67.74	74.00	-6.26	63.77	3.97	Peak	100	313
5	10580.00	57.02	68.20	-11.18	42.45	14.57	Peak	100	168
6	15870.00	43.54	54.00	-10.46	29.35	14.19	Average	100	260
7	15870.00	56.77	74.00	-17.23	42.58	14.19	Peak	100	260

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Akun Chung Temperature(℃):23 Humidity(%):63

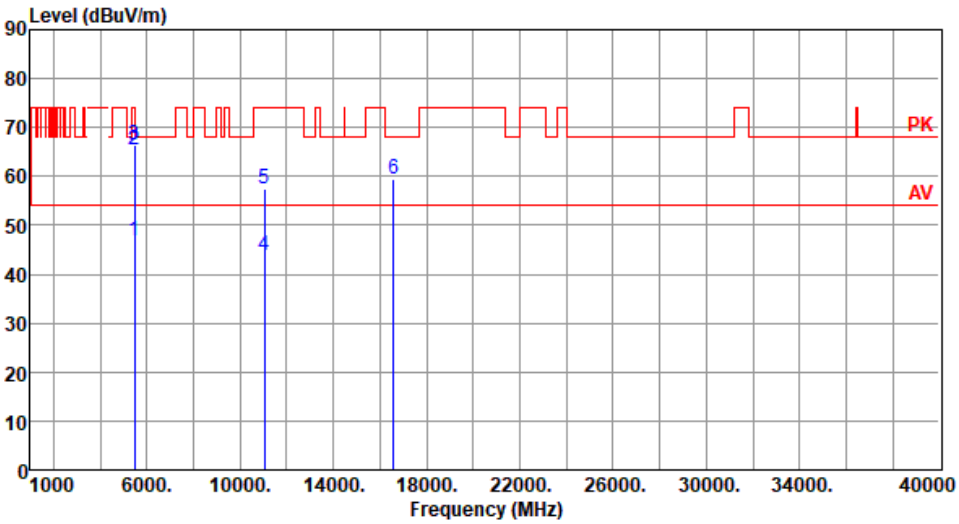


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.97	54.00	-9.03	40.59	4.38	Average	100	316
2	5150.00	57.67	74.00	-16.33	53.29	4.38	Peak	100	316
3	5350.00	49.83	54.00	-4.17	45.86	3.97	Average	100	316
4	5350.00	63.65	74.00	-10.35	59.68	3.97	Peak	100	316
5	10580.00	56.88	68.20	-11.32	42.31	14.57	Peak	100	160
6	15870.00	43.30	54.00	-10.70	29.11	14.19	Average	100	60
7	15870.00	56.65	74.00	-17.35	42.46	14.19	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 HE80	Test Freq. (MHz)	5530
Polarization	Horizontal		

Test By :Aska Huang Temperature(℃):23 Humidity(%):66

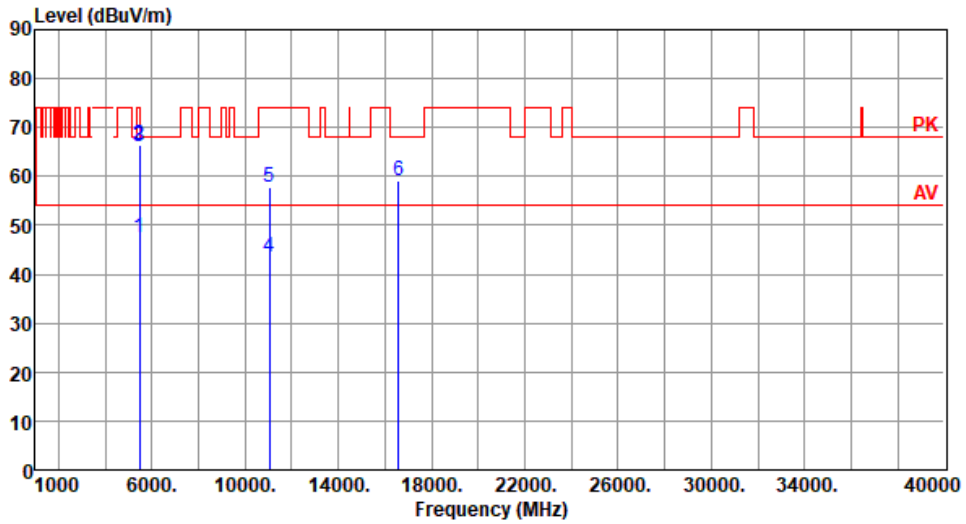


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.73	54.00	-7.27	42.36	4.37	Average	100	311
2	5460.00	65.51	74.00	-8.49	61.14	4.37	Peak	100	311
3	5470.00	66.56	68.20	-1.64	62.17	4.39	Peak	100	311
4	11060.00	43.84	54.00	-10.16	28.86	14.98	Average	100	53
5	11060.00	57.46	74.00	-16.54	42.48	14.98	Peak	100	53
6	16590.00	59.34	68.20	-8.86	43.11	16.23	Peak	100	137

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

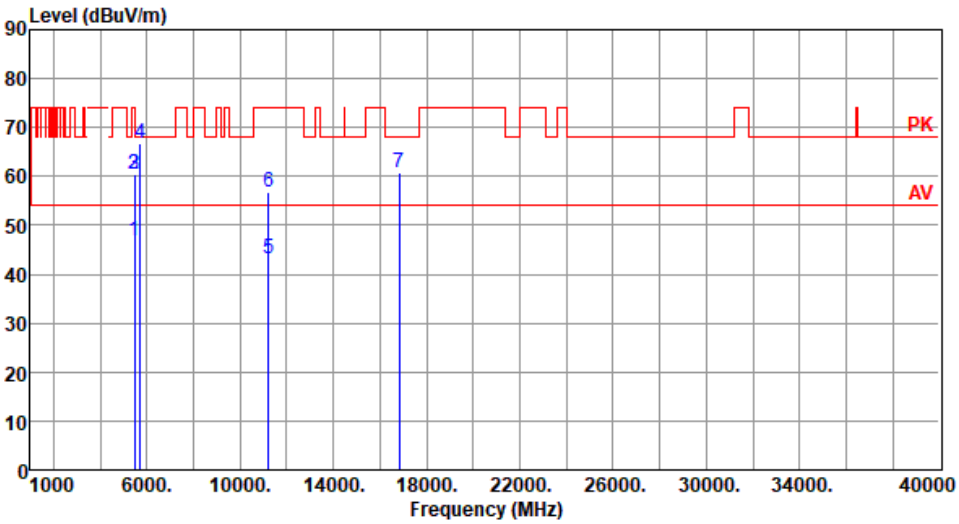


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.49	54.00	-6.51	43.12	4.37	Average	314	112
2	5460.00	66.51	74.00	-7.49	62.14	4.37	Peak	314	112
3	5470.00	66.24	68.20	-1.96	61.85	4.39	Peak	314	112
4	11060.00	43.62	54.00	-10.38	28.64	14.98	Average	100	178
5	11060.00	57.86	74.00	-16.14	42.88	14.98	Peak	100	178
6	16590.00	59.21	68.20	-8.99	42.98	16.23	Peak	100	253

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

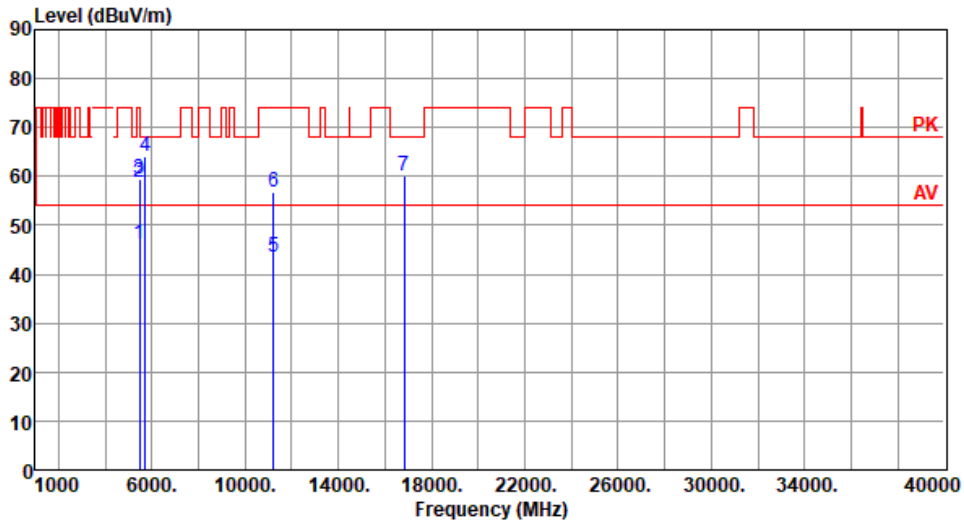


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.72	54.00	-7.28	42.35	4.37	Average	100	311
2	5460.00	60.50	74.00	-13.50	56.13	4.37	Peak	100	311
3	5470.00	60.44	68.20	-7.76	56.05	4.39	Peak	100	311
4	5725.00	66.66	68.20	-1.54	61.85	4.81	Peak	100	311
5	11220.00	43.16	54.00	-10.84	28.68	14.48	Average	100	156
6	11220.00	56.85	74.00	-17.15	42.37	14.48	Peak	100	156
7	16830.00	60.63	68.20	-7.57	43.31	17.32	Peak	100	316

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

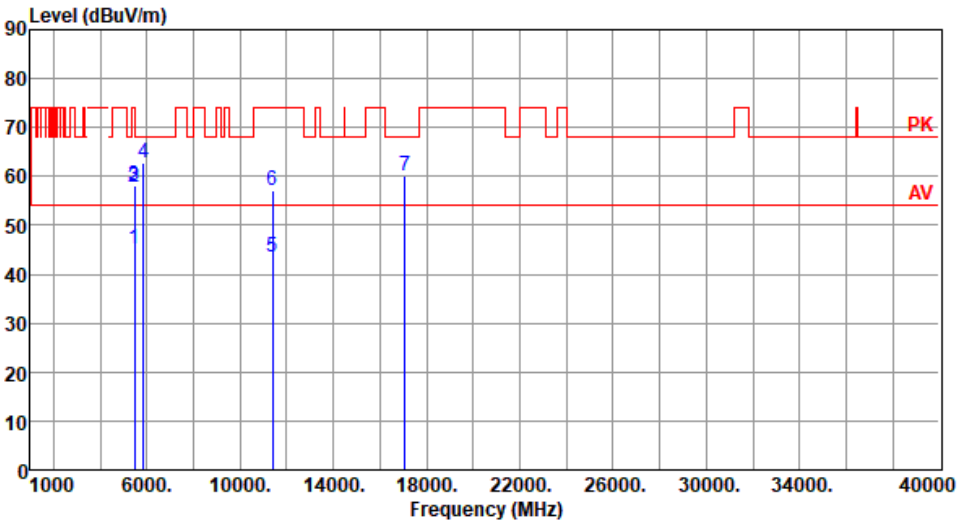


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.17	54.00	-7.83	41.80	4.37	Average	340	281
2	5460.00	58.93	74.00	-15.07	54.56	4.37	Peak	340	281
3	5470.00	59.33	68.20	-8.87	54.94	4.39	Peak	340	281
4	5725.00	64.02	68.20	-4.18	59.21	4.81	Peak	340	281
5	11220.00	43.41	54.00	-10.59	28.93	14.48	Average	100	167
6	11220.00	56.96	74.00	-17.04	42.48	14.48	Peak	100	167
7	16830.00	60.20	68.20	-8.00	42.88	17.32	Peak	100	216

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

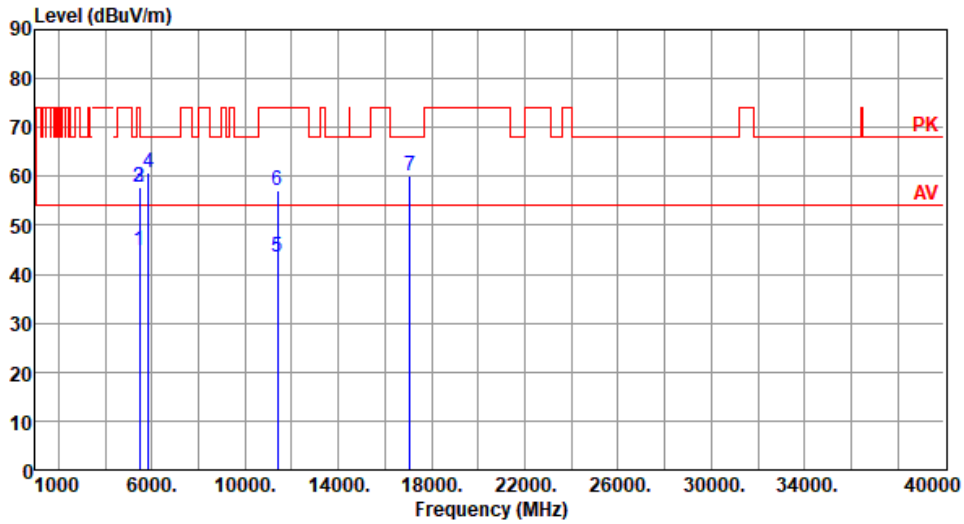


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.03	54.00	-8.97	40.66	4.37	Average	100	307
2	5460.00	57.82	74.00	-16.18	53.45	4.37	Peak	100	307
3	5470.00	58.08	68.20	-10.12	53.69	4.39	Peak	100	307
4	5850.00	62.75	68.20	-5.45	57.57	5.18	Peak	100	307
5	11380.00	43.54	54.00	-10.46	28.74	14.80	Average	100	142
6	11380.00	57.07	74.00	-16.93	42.27	14.80	Peak	100	142
7	17070.00	60.16	68.20	-8.04	42.81	17.35	Peak	100	38

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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(℃):24 Humidity(%):68

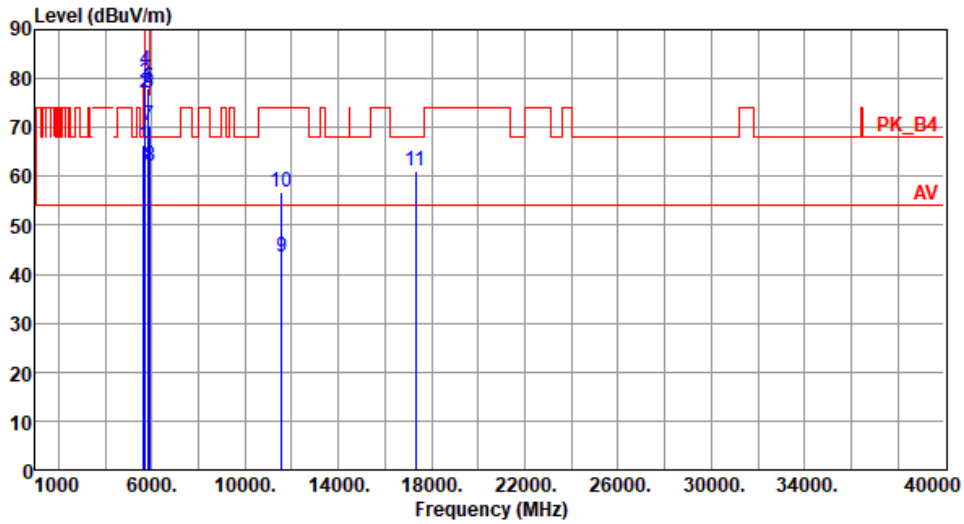


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.75	54.00	-9.25	40.38	4.37	Average	302	168
2	5460.00	57.75	74.00	-16.25	53.38	4.37	Peak	302	168
3	5470.00	57.81	68.20	-10.39	53.42	4.39	Peak	302	168
4	5850.00	60.78	68.20	-7.42	55.60	5.18	Peak	302	168
5	11380.00	43.45	54.00	-10.55	28.65	14.80	Average	100	231
6	11380.00	57.20	74.00	-16.80	42.40	14.80	Peak	100	231
7	17070.00	60.10	68.20	-8.10	42.75	17.35	Peak	100	142

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66

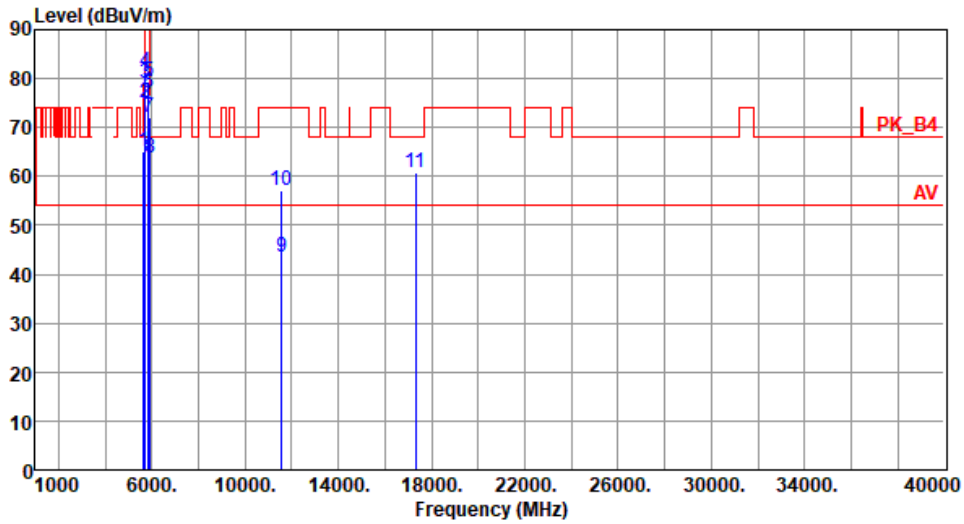


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	66.35	68.20	-1.85	61.90	4.45	Peak	100	292
2	5700.00	76.93	105.20	-28.27	72.24	4.69	Peak	100	292
3	5720.00	79.14	110.80	-31.66	74.35	4.79	Peak	100	292
4	5725.00	81.63	122.20	-40.57	76.82	4.81	Peak	100	292
5	5850.00	77.94	122.20	-44.26	72.76	5.18	Peak	100	292
6	5855.00	77.08	110.80	-33.72	71.89	5.19	Peak	100	292
7	5875.00	70.47	105.20	-34.73	65.19	5.28	Peak	100	292
8	5925.00	62.13	68.20	-6.07	56.75	5.38	Peak	100	292
9	11550.00	43.48	54.00	-10.52	28.78	14.70	Average	100	138
10	11550.00	56.65	74.00	-17.35	41.95	14.70	Peak	100	138
11	17325.00	60.95	68.20	-7.25	43.05	17.90	Peak	100	183

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + 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 :Aska Huang Temperature(℃):23 Humidity(%):66



	Freq. 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	65.21	68.20	-2.99	60.76	4.45	Peak	280	267
2	5700.00	75.00	105.20	-30.20	70.31	4.69	Peak	280	267
3	5720.00	78.96	110.80	-31.84	74.17	4.79	Peak	280	267
4	5725.00	81.36	122.20	-40.84	76.55	4.81	Peak	280	267
5	5850.00	79.26	122.20	-42.94	74.08	5.18	Peak	280	267
6	5855.00	77.02	110.80	-33.78	71.83	5.19	Peak	280	267
7	5875.00	72.18	105.20	-33.02	66.90	5.28	Peak	280	267
8	5925.00	63.71	68.20	-4.49	58.33	5.38	Peak	280	267
9	11550.00	43.38	54.00	-10.62	28.68	14.70	Average	100	192
10	11550.00	57.18	74.00	-16.82	42.48	14.70	Peak	100	192
11	17325.00	60.73	68.20	-7.47	42.83	17.90	Peak	100	148

Note 1: Emission Level (dBuV/m) = SA Reading (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

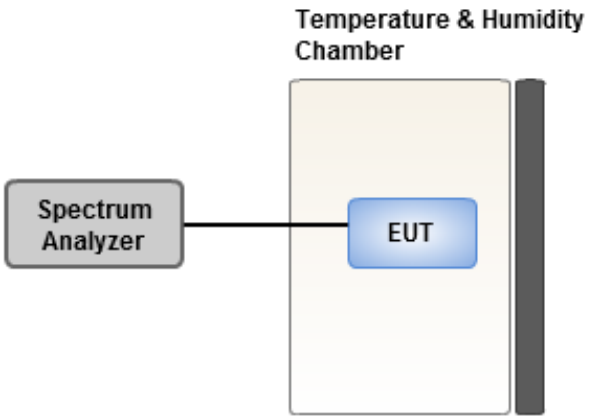
3.6.1 Limit of Frequency Stability

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	23-25°C / 64%	Tested By	Aska Huang

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	4.61	4.27	3.99	4.50
T20°CVmin	2.83	2.41	2.07	2.63
T50°CVnom	-0.47	-0.04	-0.17	-0.45
T40°CVnom	2.19	2.90	2.22	2.63
T30°CVnom	1.88	1.99	2.36	2.31
T20°CVnom	3.77	4.03	4.60	4.12
T10°CVnom	3.68	3.79	3.42	3.48
T0°CVnom	4.53	4.00	4.13	4.16
T-10°CVnom	4.29	4.53	4.69	4.41
T-20°CVnom	8.81	9.02	8.14	8.54
T-30°CVnom	6.32	6.19	6.55	5.86
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	3.49	3.23	3.40	3.45
T20°CVmin	1.99	2.05	2.40	2.12
T50CVnom	-0.19	-0.25	0.30	-0.10
T40°CVnom	1.97	2.05	1.89	2.52
T30°CVnom	1.57	2.26	1.27	1.77
T20°CVnom	2.85	3.53	3.06	3.26
T10°CVnom	2.74	2.71	2.45	3.14
T0°CVnom	3.29	3.65	3.09	3.26
T-10°CVnom	3.91	4.27	4.03	3.91
T-20°CVnom	7.27	7.60	7.94	7.64
T-30°CVnom	5.84	6.32	6.17	5.74
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
No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

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

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

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