

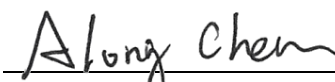
FCC C2PC Test Report

FCC ID : I8811AXAP24
Equipment : 802.11ax (WiFi 6) Dual-Radio Unified Pro
Access Point
Model No. : WAX630S
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407
Received Date : Jul. 29, 2021
Tested Date : Oct. 12 ~ Oct. 27, 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

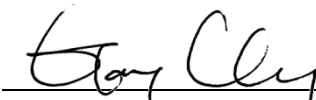

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR172901AN	Rev. 01	Initial issue	Jan. 26, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.474MHz 37.77 (Margin -8.68dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 11570.00MHz 53.88 (Margin -0.12dB) - AV	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	Meet the requirement of limit	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

This is a Class II Permissive Change report (C2PC).

This report is issued as a supplementary report to original ICC report no. FR040603AN. The difference compared with original test report are as below

1. Changing antenna and product name
2. Adding one model name.
3. Reduced output power of 11ax HE40: 5755 MHz / 5795 MHz and 11ax HE80: 5775 MHz by software setting

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	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]	4	MCS 0-31
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]	4	MCS 0-31
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]	4	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]	4	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]	4	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]	4	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]	4	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]	4	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.					

Combination of channel list for 80+80MHz mode

Mode	Channels
1	CH42 (5210 MHz) + CH58 (5290 MHz)
2	CH106(5530 MHz) + CH122 (5610 MHz)

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
					5150~5250	5250~5350	5470~5725	5725~5850
1	Adant	WAX630S-ANT	PIFA	UFL	1.32	1.39	0.44	1.63
2	Adant	WAX630S-ANT	PIFA	UFL	1.32	1.39	0.44	1.63
3	Adant	WAX630S-ANT	PIFA	UFL	1.32	1.39	0.44	1.63
4	Adant	WAX630S-ANT	PIFA	UFL	1.32	1.39	0.44	1.63

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter 30 ~ 57Vdc from PoE
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Note: The above power supplies are not bundled in market.

1.1.4 Accessories

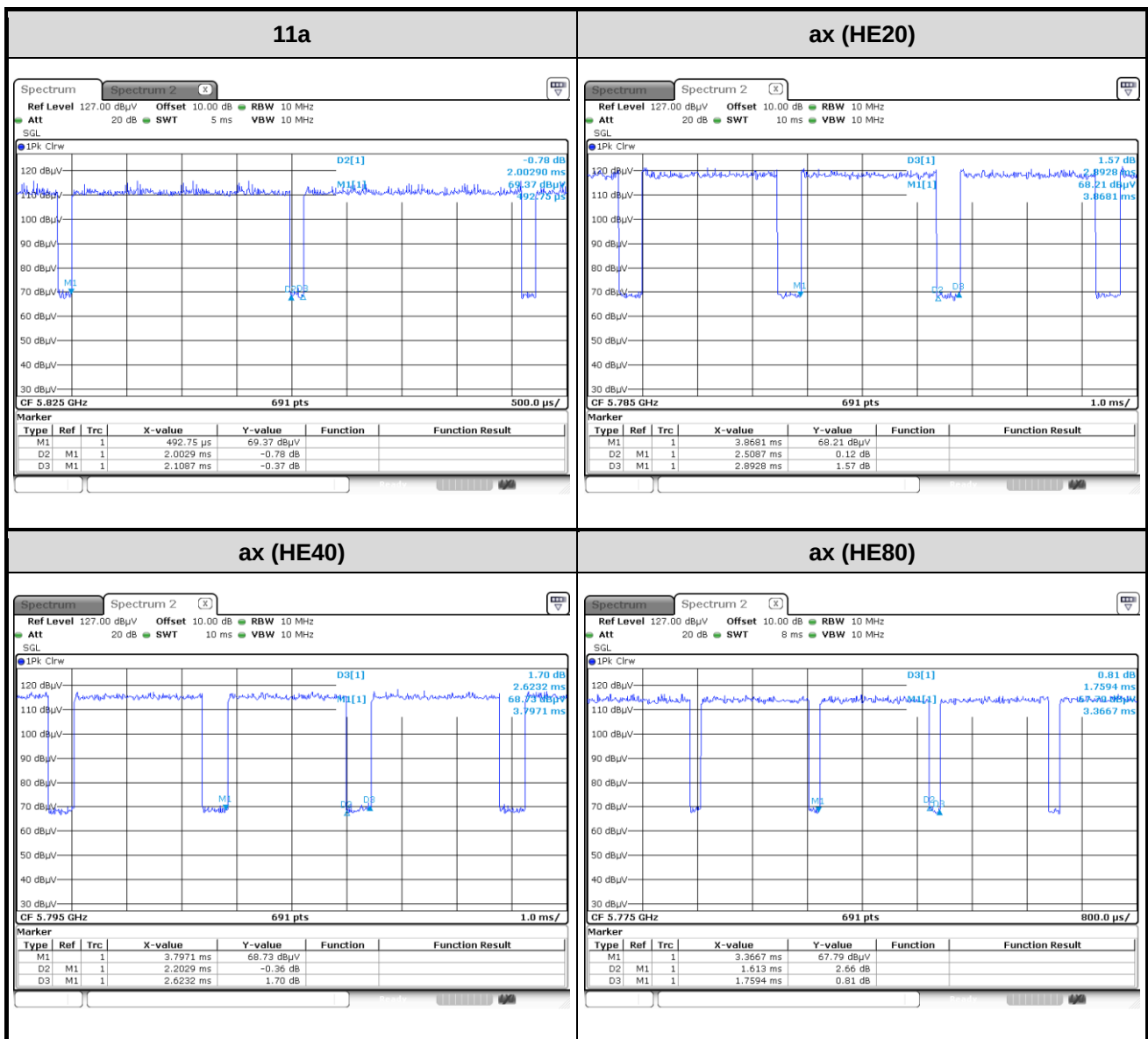
N/A

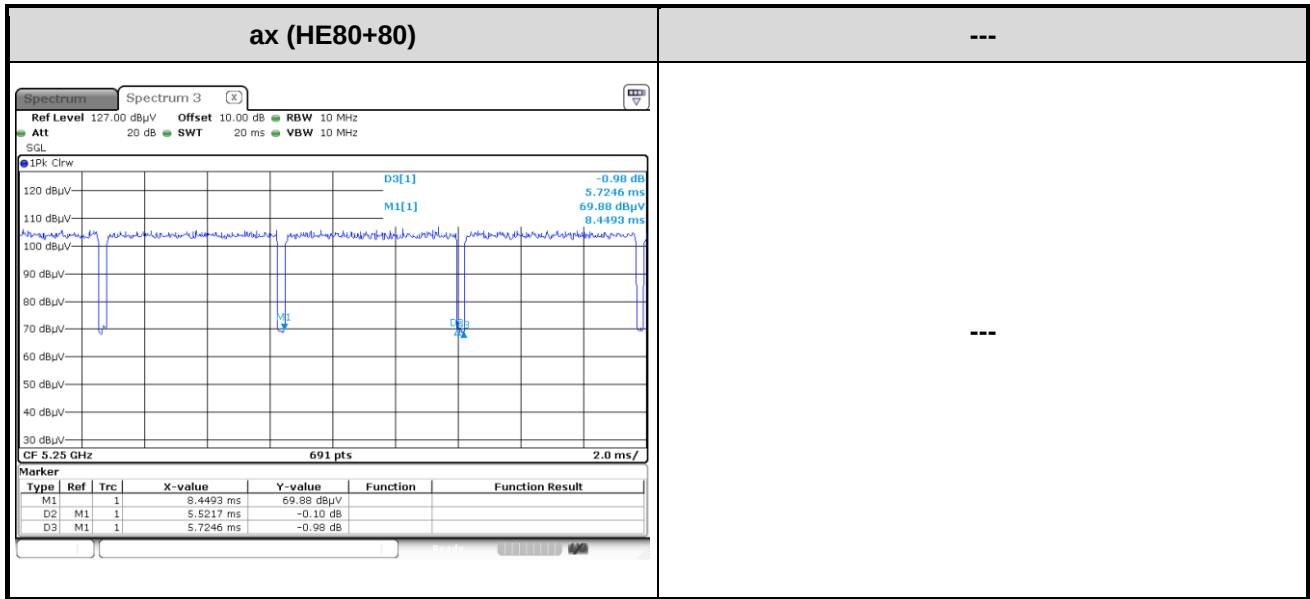
1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80 / ax HE80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QSPR, Version: v5.0-00195		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	94.98%	0.22
	ax (HE20)	86.72%	0.62
	ax (HE40)	83.98%	0.76
	ax (HE80)	91.68%	0.38
	ax (HE80+80)	96.46%	0.16





1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	20
11a	5200	20.5
11a	5240	20.5
11a	5260	13.5
11a	5300	13.5
11a	5320	13.5
11a	5500	13
11a	5580	13.5
11a	5700	14
11a	5720	13.5
11a	5745	23.5
11a	5785	23.5
11a	5825	23
ax (HE20)	5180	21
ax (HE20)	5200	25
ax (HE20)	5240	26
ax (HE20)	5260	18
ax (HE20)	5300	18
ax (HE20)	5320	17.5
ax (HE20)	5500	17
ax (HE20)	5580	18
ax (HE20)	5700	18
ax (HE20)	5720	18
ax (HE20)	5745	25.5
ax (HE20)	5785	27.5
ax (HE20)	5825	27.5

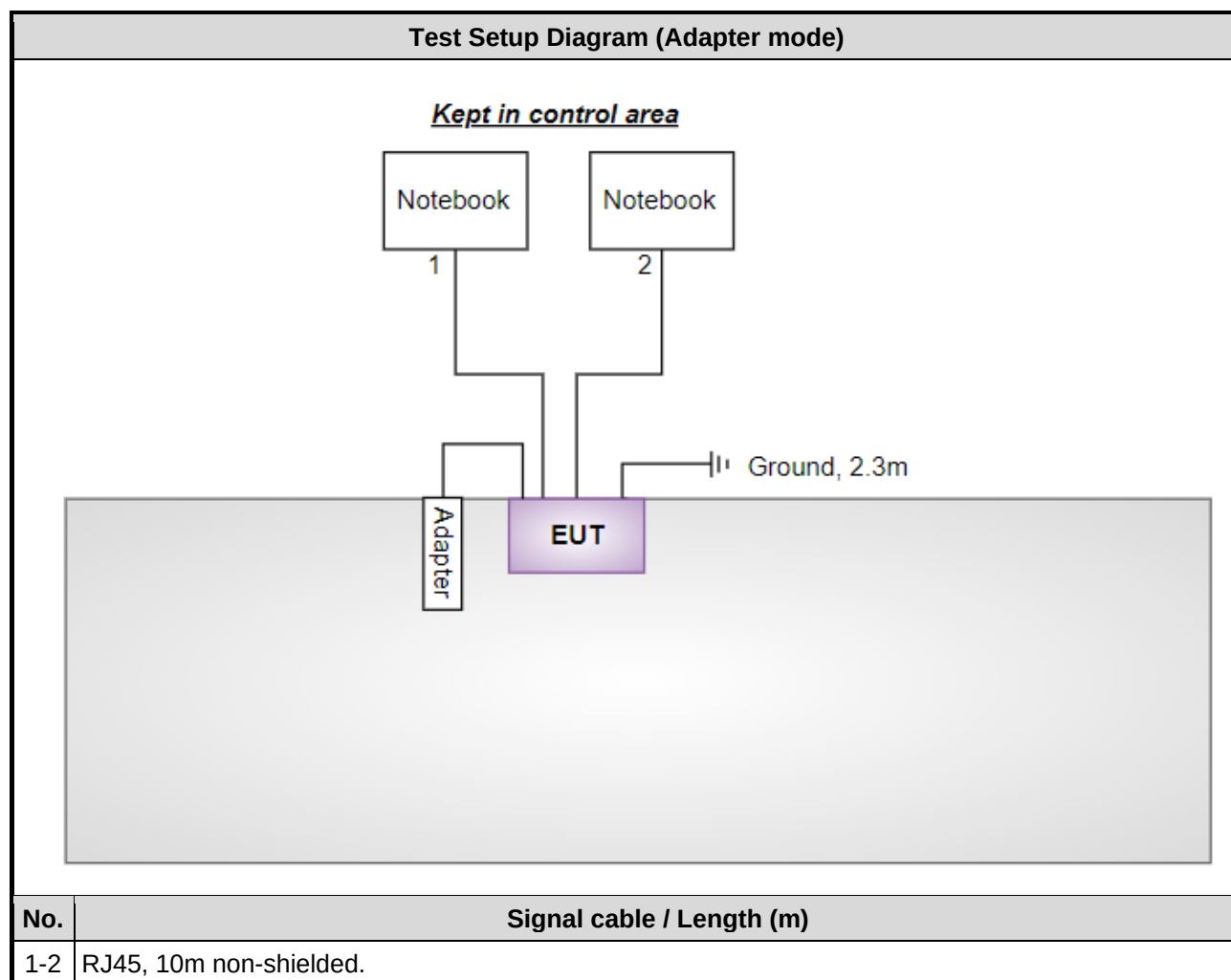
ax (HE40)	5190	14.5
ax (HE40)	5230	20.5
ax (HE40)	5270	16.5
ax (HE40)	5310	15
ax (HE40)	5510	13
ax (HE40)	5590	16.5
ax (HE40)	5670	13.5
ax (HE40)	5710	16.5
ax (HE40)	5755	16.5
ax (HE40)	5795	21
ax (HE80)	5210	13
ax (HE80)	5290	16
ax (HE80)	5530	14
ax (HE80)	5610	17.5
ax (HE80)	5690	16.5
ax (HE80)	5775	20
ax (HE80+80)	5210+5290	10
ax (HE80+80)	5530+5610	13

1.2 Local Support Equipment List

Support Equipment List (Adapter Mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6430	DoC	---
2	Notebook	DELL	Latitude E5470	---	---
3	Adapter	APD	WB-18Q12R	---	Provided by applicant.

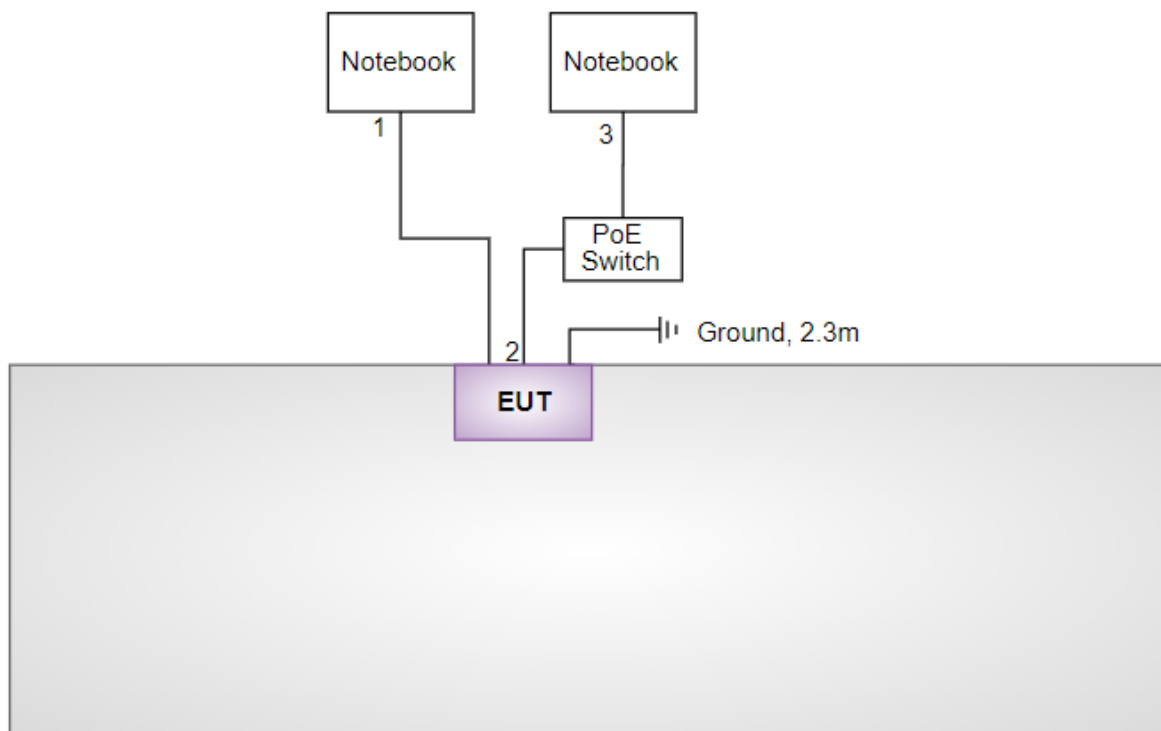
Support Equipment List (PoE Mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6430	DoC	---
2	Notebook	DELL	Latitude E5470	DoC	
3	PoE Switch	YAMAHA	SWX2221P-10 NT	---	Provided by applicant.

1.3 Test Setup Chart



Test Setup Diagram (PoE mode)

Kept in control area



No.	Signal cable / Length (m)
1-2	RJ45, 10m non-shielded.
3	RJ45, 1.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 21, 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. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Oct. 12 ~ Oct. 21, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101499	Mar. 02, 2021	Mar. 01, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 22, 2020	Dec. 21, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 25 ~ Oct. 27, 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
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 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.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

Non-beamforming mode

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5200	6 Mbps	1, 2
Radiated Emissions ≤1GHz	11a	5200	6 Mbps	1, 2
Radiated Emissions >1GHz	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	
	ax HE80 + 80	5210 + 5290 / 5530 + 5610	MCS 0	1
Frequency Stability	Un-modulation	5320	---	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	ax HE20	5785	MCS 0	1, 2
Radiated Emissions ≤1GHz	ax HE20	5785	MCS 0	1
RF Output Power Peak Power Spectral Density Emission Bandwidth	ax HE40	5755 / 5795	MCS 0	1
	ax HE80	5775	MCS 0	
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1
	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

Beamforming mode

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
RF Output Power	ax HE40	5755 / 5795	MCS 0	1
	ax HE80	5775	MCS 0	
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

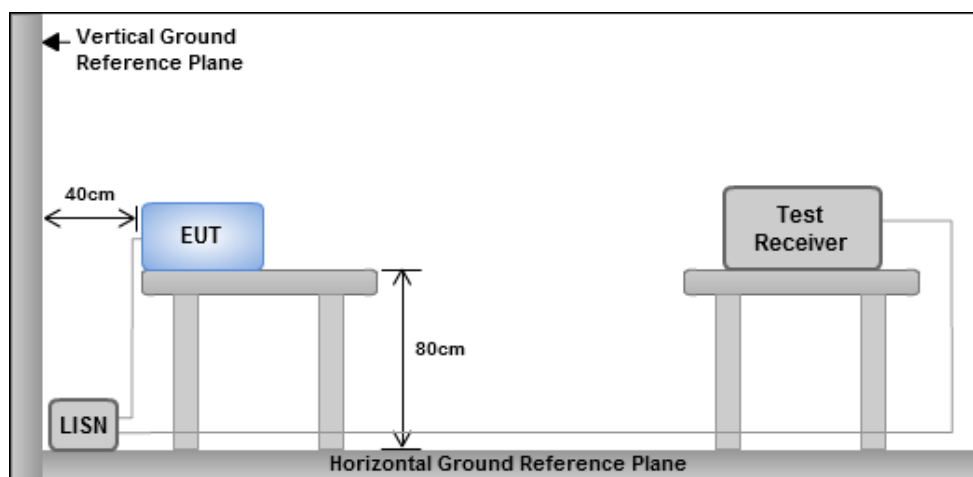
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

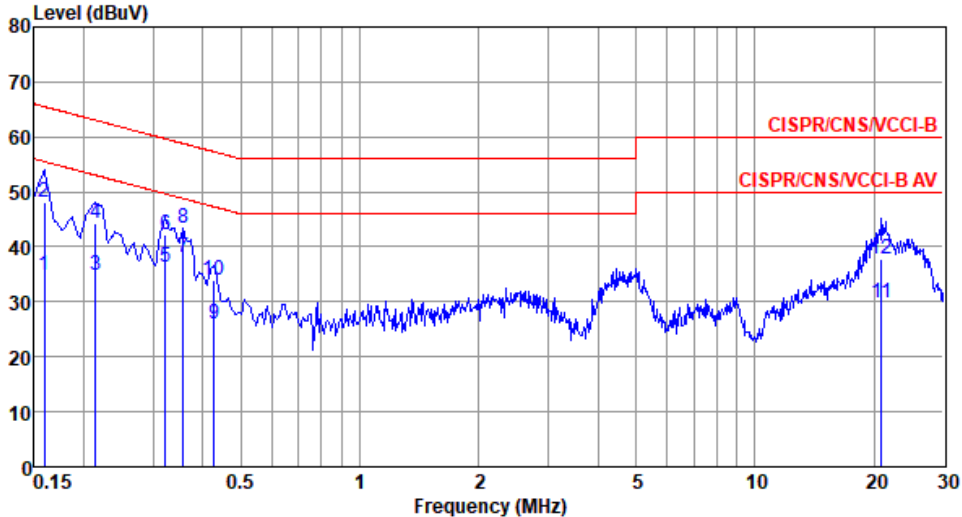
3.1.3 Test Setup



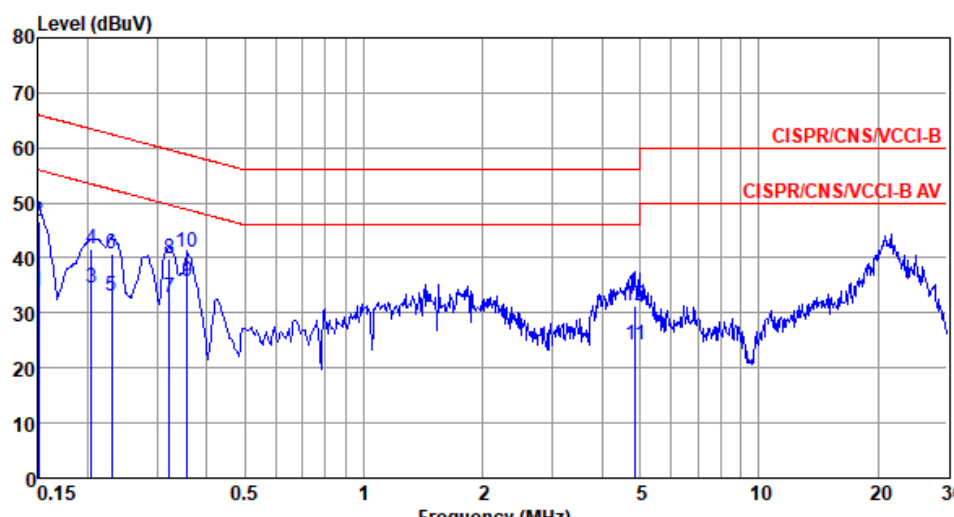
- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

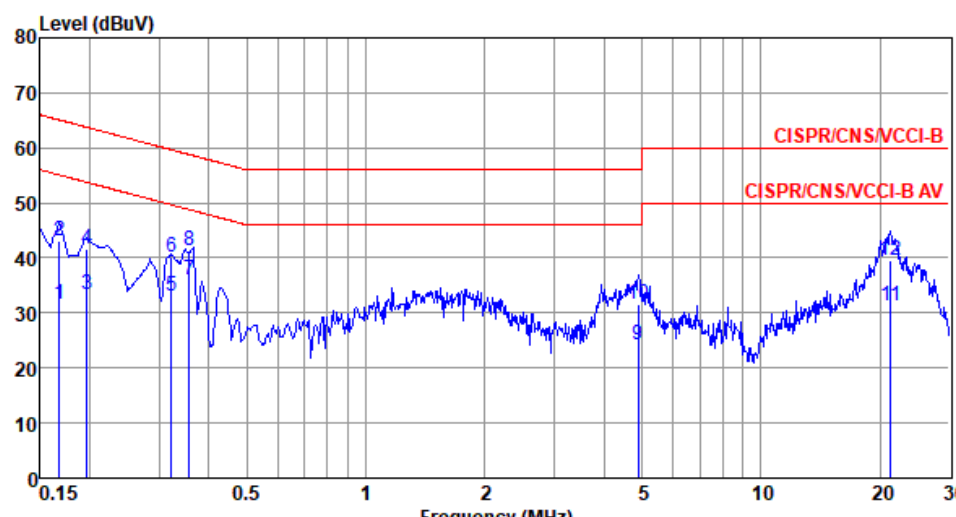
Configuration 1: Adapter mode

Modulation	11a	Test Freq. (MHz)	5200																																																																																																																																		
Power Phase	Line																																																																																																																																				
Test by : Joe Liao Temperature: 22°C Humidity: 63%																																																																																																																																					
Level (dBuV)  Frequency (MHz)																																																																																																																																					
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Modulation	11a	Test Freq. (MHz)	5200																																																																																																																																		
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Modulation	ax HE20	Test Freq. (MHz)	5785																																																																																																																																		
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Test by : Joe Liao Temperature: 22°C Humidity: 63%																																																																																																																																					
Level (dBuV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.168</td><td>31.50</td><td>55.08</td><td>-23.58</td><td>21.56</td><td>9.69</td><td>0.08</td><td>0.17</td><td>Average</td></tr><tr><td>2</td><td>0.168</td><td>43.04</td><td>65.08</td><td>-22.04</td><td>33.10</td><td>9.69</td><td>0.08</td><td>0.17</td><td>QP</td></tr><tr><td>3</td><td>0.197</td><td>33.41</td><td>53.76</td><td>-20.35</td><td>23.47</td><td>9.68</td><td>0.08</td><td>0.18</td><td>Average</td></tr><tr><td>4</td><td>0.197</td><td>41.74</td><td>63.76</td><td>-22.02</td><td>31.80</td><td>9.68</td><td>0.08</td><td>0.18</td><td>QP</td></tr><tr><td>5</td><td>0.322</td><td>33.01</td><td>49.66</td><td>-16.65</td><td>23.07</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>6</td><td>0.322</td><td>40.06</td><td>59.66</td><td>-19.60</td><td>30.12</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>7*</td><td>0.357</td><td>36.07</td><td>48.80</td><td>-12.73</td><td>26.13</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>8</td><td>0.357</td><td>41.24</td><td>58.80</td><td>-17.56</td><td>31.30</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>9</td><td>4.900</td><td>24.14</td><td>46.00</td><td>-21.86</td><td>13.83</td><td>9.71</td><td>0.26</td><td>0.34</td><td>Average</td></tr><tr><td>10</td><td>4.900</td><td>31.53</td><td>56.00</td><td>-24.47</td><td>21.22</td><td>9.71</td><td>0.26</td><td>0.34</td><td>QP</td></tr><tr><td>11</td><td>21.260</td><td>31.28</td><td>50.00</td><td>-18.72</td><td>20.30</td><td>9.84</td><td>0.67</td><td>0.47</td><td>Average</td></tr><tr><td>12</td><td>21.260</td><td>39.47</td><td>60.00</td><td>-20.53</td><td>28.49</td><td>9.84</td><td>0.67</td><td>0.47</td><td>QP</td></tr></tbody></table> Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.168	31.50	55.08	-23.58	21.56	9.69	0.08	0.17	Average	2	0.168	43.04	65.08	-22.04	33.10	9.69	0.08	0.17	QP	3	0.197	33.41	53.76	-20.35	23.47	9.68	0.08	0.18	Average	4	0.197	41.74	63.76	-22.02	31.80	9.68	0.08	0.18	QP	5	0.322	33.01	49.66	-16.65	23.07	9.67	0.08	0.19	Average	6	0.322	40.06	59.66	-19.60	30.12	9.67	0.08	0.19	QP	7*	0.357	36.07	48.80	-12.73	26.13	9.67	0.08	0.19	Average	8	0.357	41.24	58.80	-17.56	31.30	9.67	0.08	0.19	QP	9	4.900	24.14	46.00	-21.86	13.83	9.71	0.26	0.34	Average	10	4.900	31.53	56.00	-24.47	21.22	9.71	0.26	0.34	QP	11	21.260	31.28	50.00	-18.72	20.30	9.84	0.67	0.47	Average	12	21.260	39.47	60.00	-20.53	28.49	9.84	0.67	0.47	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
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Configuration 2: POE mode

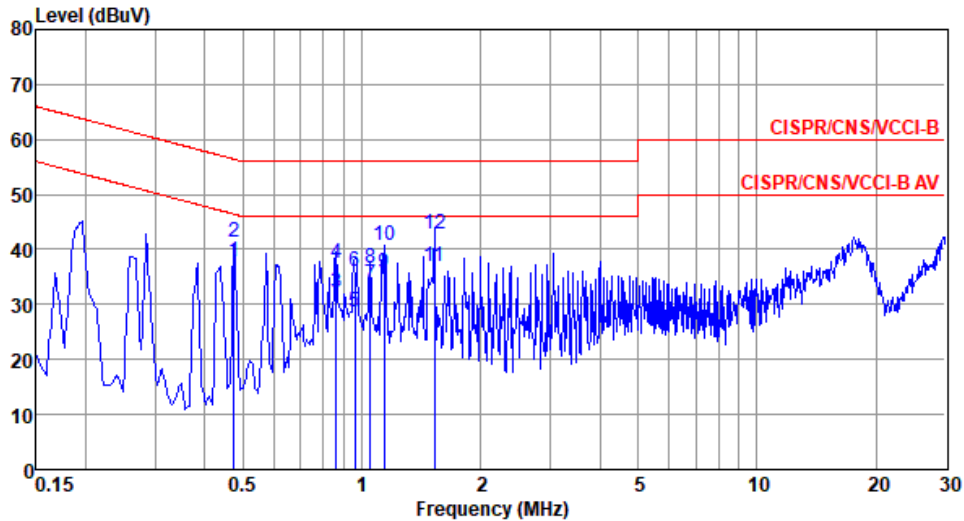
Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Line		
Test by : Joe Liao Temperature: 22°C Humidity: 63%			
Level (dBuV)			

Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 22°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1*	0.474	37.77	46.45	-8.68	28.01	9.67	0.09	0.00	Average
2	0.474	41.37	56.45	-15.08	31.61	9.67	0.09	0.00	QP
3	0.862	32.17	46.00	-13.83	22.34	9.68	0.15	0.00	Average
4	0.862	37.50	56.00	-18.50	27.67	9.68	0.15	0.00	QP
5	0.958	28.70	46.00	-17.30	18.86	9.68	0.16	0.00	Average
6	0.958	36.08	56.00	-19.92	26.24	9.68	0.16	0.00	QP
7	1.049	33.52	46.00	-12.48	23.68	9.68	0.16	0.00	Average
8	1.049	36.66	56.00	-19.34	26.82	9.68	0.16	0.00	QP
9	1.141	35.67	46.00	-10.33	25.82	9.68	0.17	0.00	Average
10	1.141	40.71	56.00	-15.29	30.86	9.68	0.17	0.00	QP
11	1.527	36.77	46.00	-9.23	26.90	9.69	0.18	0.00	Average
12	1.527	42.76	56.00	-13.24	32.89	9.69	0.18	0.00	QP

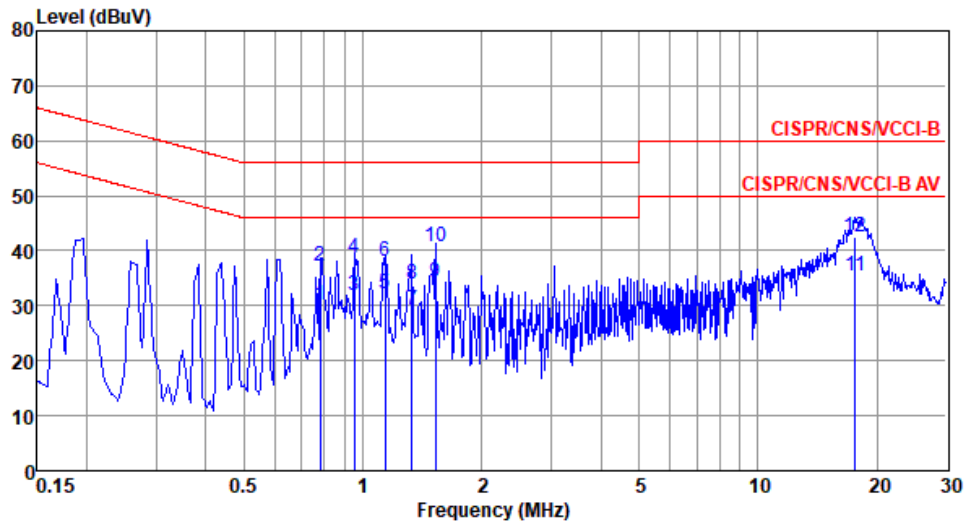
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	ax HE20	Test Freq. (MHz)	5785
Power Phase	Line		

Test by : Joe Liao

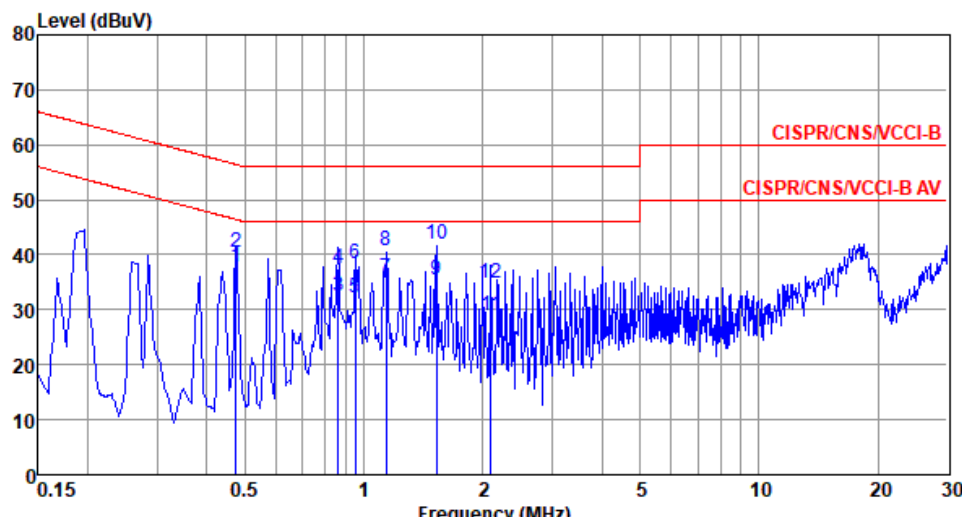
Temperature: 22°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.779	30.16	46.00	-15.84	20.37	9.65	0.14	0.00	Average
2	0.779	37.24	56.00	-18.76	27.45	9.65	0.14	0.00	QP
3	0.953	32.01	46.00	-13.99	22.20	9.65	0.16	0.00	Average
4	0.953	38.75	56.00	-17.25	28.94	9.65	0.16	0.00	QP
5	1.141	32.20	46.00	-13.80	22.38	9.65	0.17	0.00	Average
6	1.141	38.19	56.00	-17.81	28.37	9.65	0.17	0.00	QP
7	1.331	29.14	46.00	-16.86	19.31	9.65	0.18	0.00	Average
8	1.331	33.87	56.00	-22.13	24.04	9.65	0.18	0.00	QP
9*	1.527	34.39	46.00	-11.61	24.55	9.66	0.18	0.00	Average
10	1.527	40.79	56.00	-15.21	30.95	9.66	0.18	0.00	QP
11	17.661	35.39	50.00	-14.61	25.08	9.69	0.62	0.00	Average
12	17.661	42.59	60.00	-17.41	32.28	9.69	0.62	0.00	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 HE20	Test Freq. (MHz)	5785																																																																																																																																																						
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<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr><tr><td>1*</td><td>0.474</td><td>37.67</td><td>46.45</td><td>-8.78</td><td>27.91</td><td>9.67</td><td>0.09</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.474</td><td>40.35</td><td>56.45</td><td>-16.10</td><td>30.59</td><td>9.67</td><td>0.09</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.862</td><td>32.40</td><td>46.00</td><td>-13.60</td><td>22.57</td><td>9.68</td><td>0.15</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.862</td><td>37.62</td><td>56.00</td><td>-18.38</td><td>27.79</td><td>9.68</td><td>0.15</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.953</td><td>32.23</td><td>46.00</td><td>-13.77</td><td>22.39</td><td>9.68</td><td>0.16</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.953</td><td>38.47</td><td>56.00</td><td>-17.53</td><td>28.63</td><td>9.68</td><td>0.16</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>1.141</td><td>35.75</td><td>46.00</td><td>-10.25</td><td>25.90</td><td>9.68</td><td>0.17</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>1.141</td><td>40.70</td><td>56.00</td><td>-15.30</td><td>30.85</td><td>9.68</td><td>0.17</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>1.527</td><td>35.50</td><td>46.00</td><td>-10.50</td><td>25.63</td><td>9.69</td><td>0.18</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>1.527</td><td>41.88</td><td>56.00</td><td>-14.12</td><td>32.01</td><td>9.69</td><td>0.18</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>2.099</td><td>28.83</td><td>46.00</td><td>-17.17</td><td>18.94</td><td>9.69</td><td>0.20</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>2.099</td><td>34.86</td><td>56.00</td><td>-21.14</td><td>24.97</td><td>9.69</td><td>0.20</td><td>0.00</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	Line	Limit	Level	dB	loss	dB					dBuV	dB	dBuV		dB			1*	0.474	37.67	46.45	-8.78	27.91	9.67	0.09	0.00	Average	2	0.474	40.35	56.45	-16.10	30.59	9.67	0.09	0.00	QP	3	0.862	32.40	46.00	-13.60	22.57	9.68	0.15	0.00	Average	4	0.862	37.62	56.00	-18.38	27.79	9.68	0.15	0.00	QP	5	0.953	32.23	46.00	-13.77	22.39	9.68	0.16	0.00	Average	6	0.953	38.47	56.00	-17.53	28.63	9.68	0.16	0.00	QP	7	1.141	35.75	46.00	-10.25	25.90	9.68	0.17	0.00	Average	8	1.141	40.70	56.00	-15.30	30.85	9.68	0.17	0.00	QP	9	1.527	35.50	46.00	-10.50	25.63	9.69	0.18	0.00	Average	10	1.527	41.88	56.00	-14.12	32.01	9.69	0.18	0.00	QP	11	2.099	28.83	46.00	-17.17	18.94	9.69	0.20	0.00	Average	12	2.099	34.86	56.00	-21.14	24.97	9.69	0.20	0.00	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
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3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

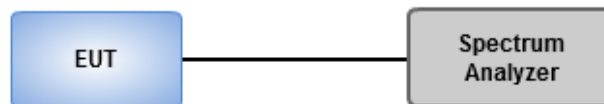
Occupied Bandwidth

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

6dB Bandwidth

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

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	23°C / 63%	Tested By	Aska Huang
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	37.971M	37.916M	37M9D1D	35.362M	37.482M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.812M	77.279M	77M3D1D	73.913M	76.99M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW40_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	35.362 M	37.771 M	37.971 M	37.916 M	35.797 M	37.482 M	37.681 M	37.771 M
5795MHz	Pass	500k	36.522 M	37.771 M	37.971 M	37.916 M	37.681 M	37.627 M	37.826 M	37.916 M
802.11ax HEW80_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.362 M	77.279 M	76.812 M	77.279 M	74.493 M	77.279 M	73.913 M	76.99M

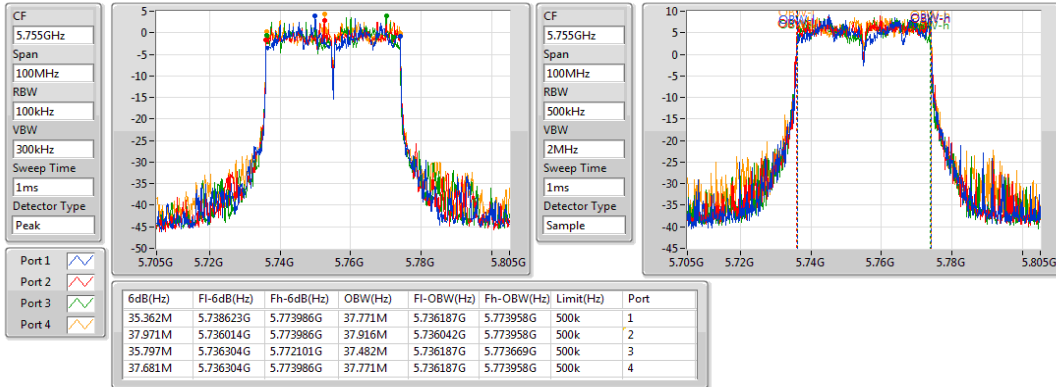
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

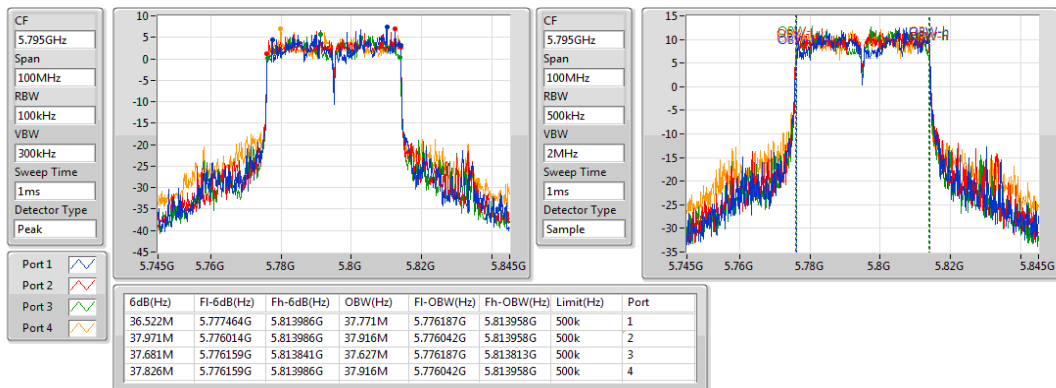
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

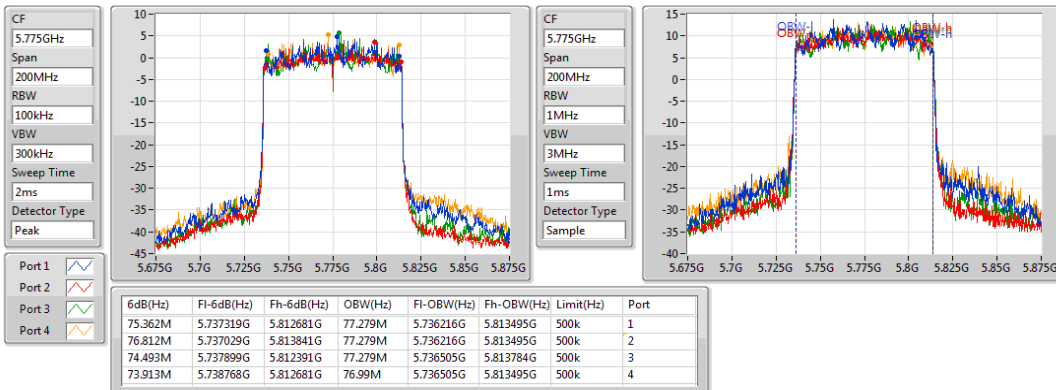
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz



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

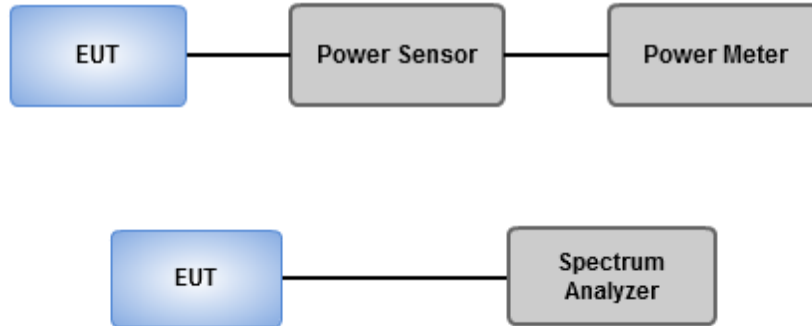
Method PM-G (Measurement using a gated RF average power meter)

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°C / 63%	Tested By	Aska Huang
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Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	26.64	0.46132	28.27	0.67143
802.11ax HEW80_Nss1,(MCS0)_4TX	25.48	0.35318	27.11	0.51404

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW40_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	1.63	16.48	15.49	15.83	16.38	22.08	30.00	23.71	36.00
5795MHz	Pass	1.63	21.05	20.24	20.59	20.56	26.64	30.00	28.27	36.00
802.11ax HEW80_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1.63	19.15	19.35	19.52	19.8	25.48	30.00	27.11	36.00

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

Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
802.11ax HEW40-BF_Nss1, (MCS0)_4TX	20.62	0.11535	28.27	0.67143
802.11ax HEW80-BF_Nss1, (MCS0)_4TX	19.46	0.08831	27.11	0.51404

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW40-BF_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	7.65	10.46	9.47	9.81	10.36	16.06	28.35	23.71	36.00
5795MHz	Pass	7.65	15.03	14.22	14.57	14.54	20.62	28.35	28.27	36.00
802.11ax HEW80-BF_Nss1, (MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	7.65	13.13	13.33	13.5	13.78	19.46	28.35	27.11	36.00

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

Note:

4TX function

For 5745~5825 MHz band

Directional gain = $1.63\text{dBi} + 10 \cdot \log(4/1) = 7.65\text{ dBi} > 6\text{ dBi}$,

Limit shall be reduced to $30\text{ dBm} - (7.65\text{ dBi} - 6\text{ dBi}) = 28.35\text{ dBm}$

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 5725 ~ 5850 MHz

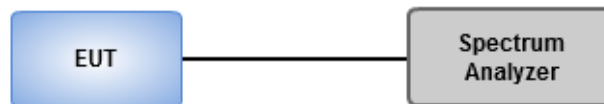
Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS., Sweep time = Auto
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.
4. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	23°C / 63%	Tested By	Aska Huang
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.85GHz	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	8.98	16.63
802.11ax HEW80_Nss1,(MCS0)_4TX	6.66	14.31

RBW = 500kHz

Result

Mode	Result	DG (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	PD (dBm/ RBW)	PD Limit (dBm/ RBW)	EIRP PD (dBm/ RBW)	EIRP PD Limit (dBm/ RBW)
802.11ax HEW40 _Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	7.65	0.14	-0.61	0.18	0.40	5.49	28.35	13.14	36.00
5795MHz	Pass	7.65	4.16	2.97	3.87	3.72	8.98	28.35	16.63	36.00
802.11ax HEW80 _Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	7.65	1.74	0.10	1.62	1.11	6.66	28.35	14.31	36.00

DG = Directional Gain; **RBW** = 500kHz

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

Note:

4TX function

For 5745~5825 MHz band

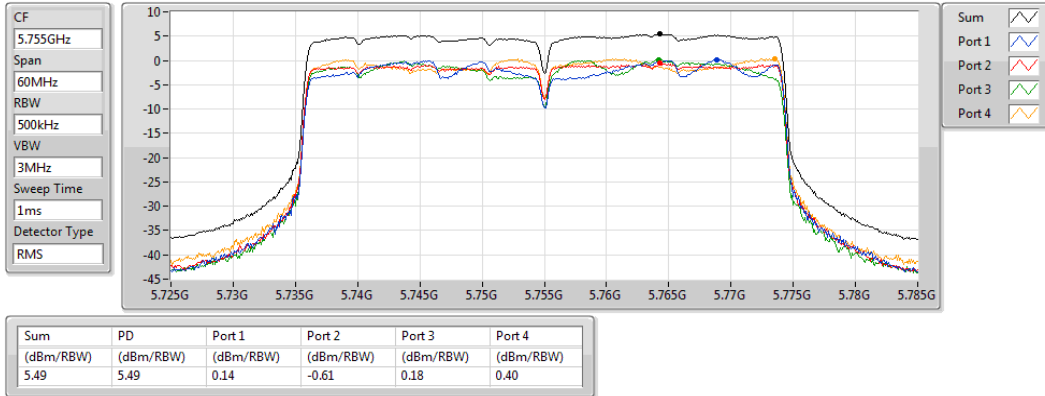
Directional gain = $1.63\text{dBi} + 10 \cdot \log(4/1) = 7.65\text{ dBi} > 6\text{ dBi}$,

Limit shall be reduced to $30\text{ dBm} - (7.65\text{ dBi} - 6\text{ dBi}) = 28.35\text{ dBm}$

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

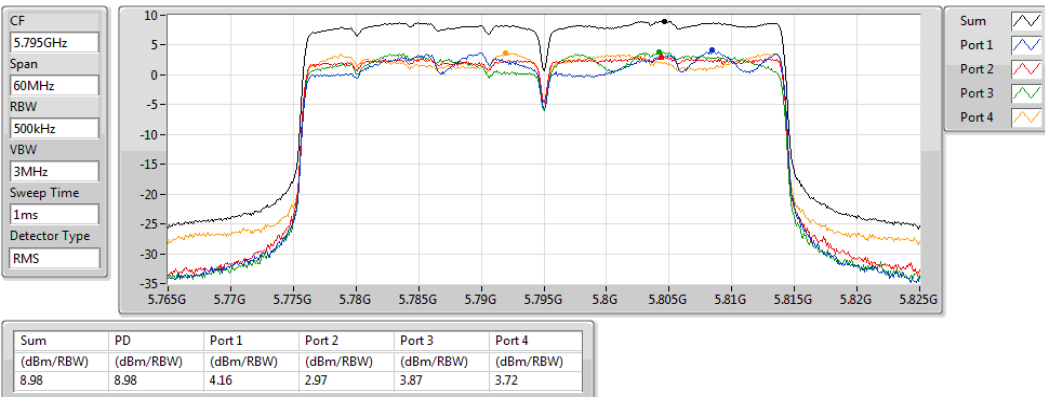
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

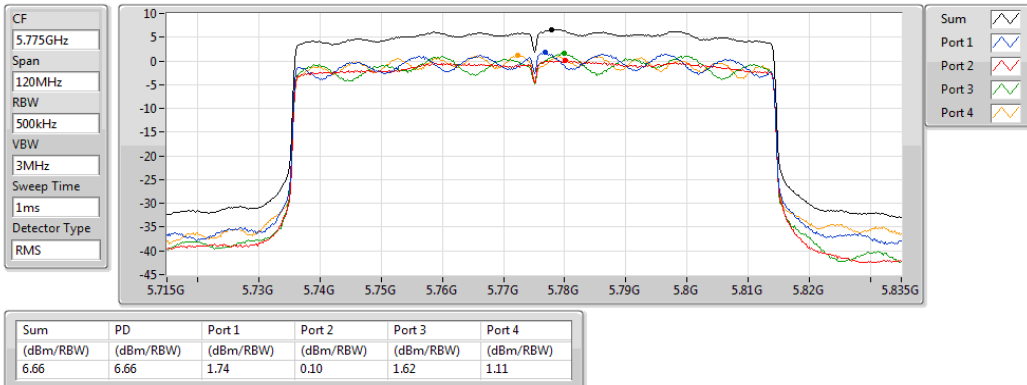
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

3.5.2 Test Procedures

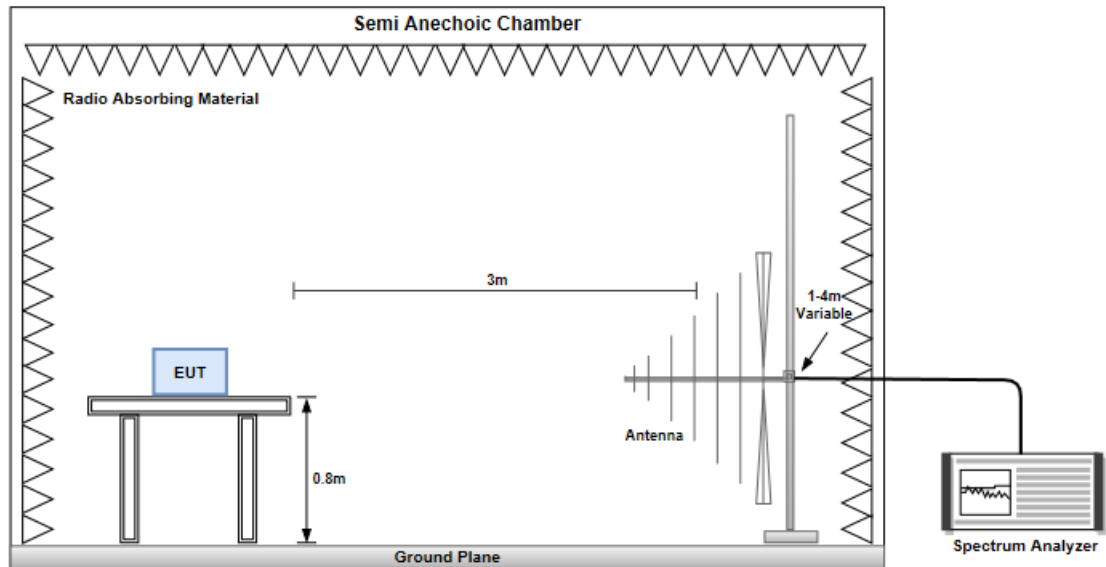
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

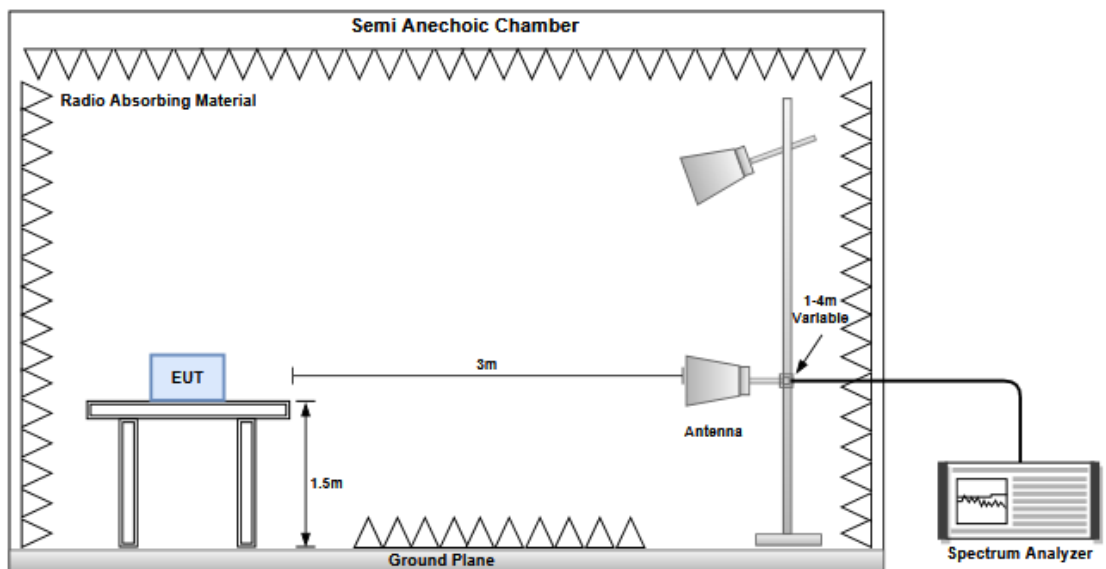
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



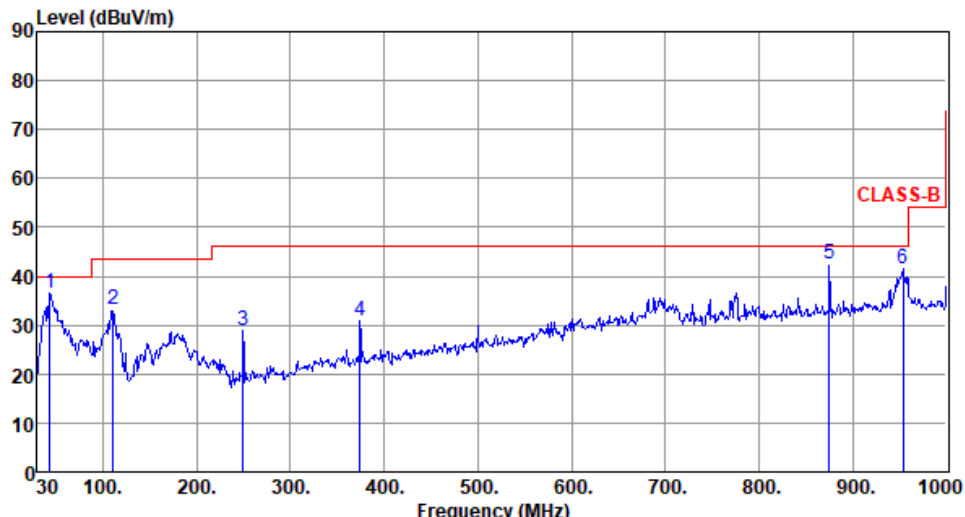
Radiated Emissions above 1 GHz

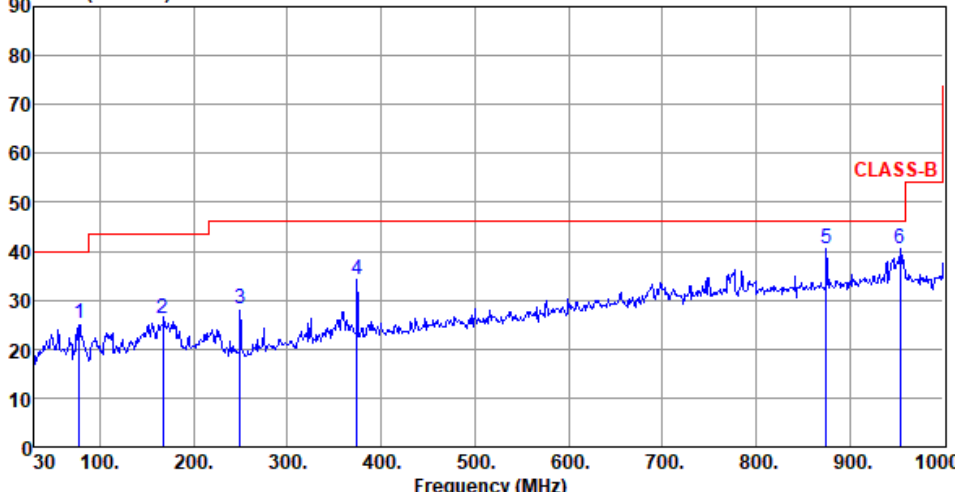


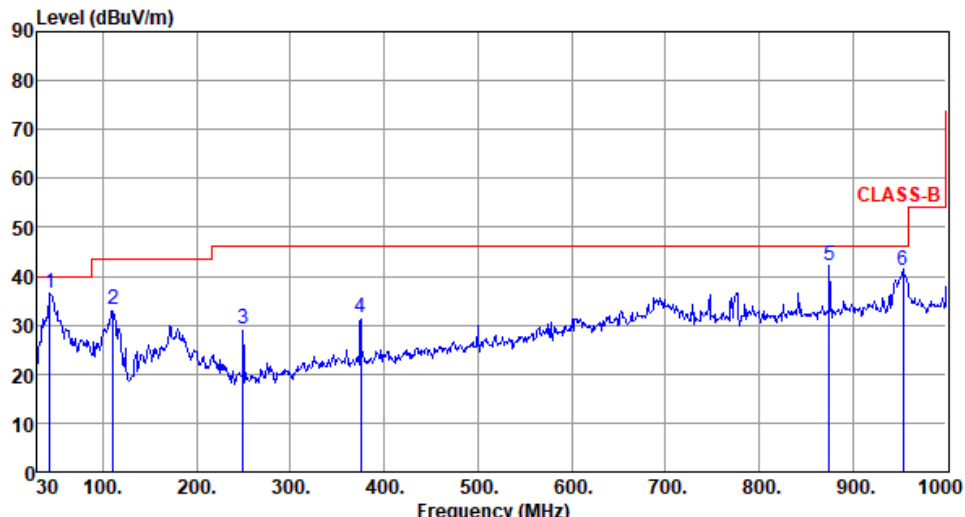
Configuration 1: Adapter mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):68			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5200																																																																						
Polarization	Vertical																																																																								
Test By :Brad Wu Temperature(°C):24 Humidity(%):68																																																																									
Level (dBuV/m)  CLASS-B <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>43.65</td><td>36.60</td><td>40.00</td><td>-3.40</td><td>45.60</td><td>-9.00</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>110.62</td><td>33.21</td><td>43.50</td><td>-10.29</td><td>45.05</td><td>-11.84</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.39</td><td>28.91</td><td>46.00</td><td>-17.09</td><td>38.70</td><td>-9.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>374.46</td><td>30.84</td><td>46.00</td><td>-15.16</td><td>37.05</td><td>-6.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>874.95</td><td>42.45</td><td>46.00</td><td>-3.55</td><td>37.96</td><td>4.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>953.54</td><td>41.45</td><td>46.00</td><td>-4.55</td><td>35.53</td><td>5.92</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	43.65	36.60	40.00	-3.40	45.60	-9.00	Peak	---	---	2	110.62	33.21	43.50	-10.29	45.05	-11.84	Peak	---	---	3	249.39	28.91	46.00	-17.09	38.70	-9.79	Peak	---	---	4	374.46	30.84	46.00	-15.16	37.05	-6.21	Peak	---	---	5	874.95	42.45	46.00	-3.55	37.96	4.49	Peak	---	---	6	953.54	41.45	46.00	-4.55	35.53	5.92	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	43.65	36.60	40.00	-3.40	45.60	-9.00	Peak	---	---																																																																
2	110.62	33.21	43.50	-10.29	45.05	-11.84	Peak	---	---																																																																
3	249.39	28.91	46.00	-17.09	38.70	-9.79	Peak	---	---																																																																
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Modulation	ax HE20	Test Freq. (MHz)	5785																																																																																
Polarization	Horizontal																																																																																		
Test By :Brad Wu Temperature(°C):24 Humidity(%):68																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><td>1</td><td>77.62</td><td>25.14</td><td>40.00</td><td>-14.86</td><td>37.91</td><td>-12.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>167.61</td><td>26.18</td><td>43.50</td><td>-17.32</td><td>35.01</td><td>-8.83</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.32</td><td>28.16</td><td>46.00</td><td>-17.84</td><td>37.96</td><td>-9.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>374.58</td><td>34.06</td><td>46.00</td><td>-11.94</td><td>40.27</td><td>-6.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>874.91</td><td>40.59</td><td>46.00</td><td>-5.41</td><td>36.10</td><td>4.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>953.35</td><td>40.58</td><td>46.00</td><td>-5.42</td><td>34.67</td><td>5.91</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table	1	77.62	25.14	40.00	-14.86	37.91	-12.77	Peak	---	---	2	167.61	26.18	43.50	-17.32	35.01	-8.83	Peak	---	---	3	249.32	28.16	46.00	-17.84	37.96	-9.80	Peak	---	---	4	374.58	34.06	46.00	-11.94	40.27	-6.21	Peak	---	---	5	874.91	40.59	46.00	-5.41	36.10	4.49	Peak	---	---	6	953.35	40.58	46.00	-5.42	34.67	5.91	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table																																																																										
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3	249.32	28.16	46.00	-17.84	37.96	-9.80	Peak	---	---																																																																										
4	374.58	34.06	46.00	-11.94	40.27	-6.21	Peak	---	---																																																																										
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Modulation	ax HE20	Test Freq. (MHz)	5785																																																																						
Polarization	Vertical																																																																								
Test By :Brad Wu Temperature(°C):24 Humidity(%):68																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>43.26</td><td>36.57</td><td>40.00</td><td>-3.43</td><td>45.53</td><td>-8.96</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>110.68</td><td>33.29</td><td>43.50</td><td>-10.21</td><td>45.12</td><td>-11.83</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.51</td><td>29.28</td><td>46.00</td><td>-16.72</td><td>39.07</td><td>-9.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>374.88</td><td>31.42</td><td>46.00</td><td>-14.58</td><td>37.62</td><td>-6.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>874.75</td><td>42.14</td><td>46.00</td><td>-3.86</td><td>37.65</td><td>4.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>953.56</td><td>41.29</td><td>46.00</td><td>-4.71</td><td>35.37</td><td>5.92</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	43.26	36.57	40.00	-3.43	45.53	-8.96	Peak	---	---	2	110.68	33.29	43.50	-10.21	45.12	-11.83	Peak	---	---	3	249.51	29.28	46.00	-16.72	39.07	-9.79	Peak	---	---	4	374.88	31.42	46.00	-14.58	37.62	-6.20	Peak	---	---	5	874.75	42.14	46.00	-3.86	37.65	4.49	Peak	---	---	6	953.56	41.29	46.00	-4.71	35.37	5.92	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
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5	874.75	42.14	46.00	-3.86	37.65	4.49	Peak	---	---																																																																
6	953.56	41.29	46.00	-4.71	35.37	5.92	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.																																																																									

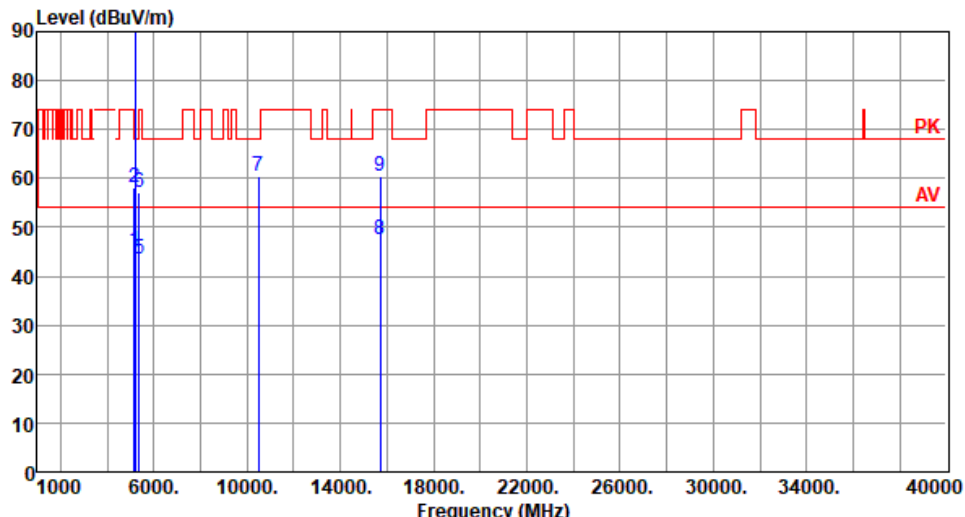
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

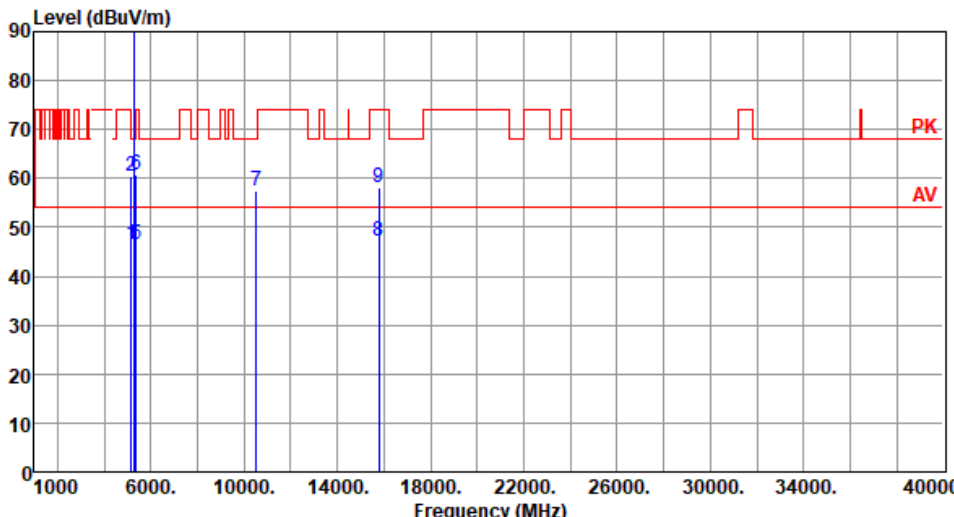
Modulation	11a	Test Freq. (MHz)	5200																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																																																																											
Level (dBuV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>45.24</td><td>54.00</td><td>-8.76</td><td>38.93</td><td>6.31</td><td>Average</td><td>336</td><td>18</td></tr><tr><td>2</td><td>5150.00</td><td>61.38</td><td>74.00</td><td>-12.62</td><td>55.07</td><td>6.31</td><td>Peak</td><td>336</td><td>18</td></tr><tr><td>3 *</td><td>5200.00</td><td>105.57</td><td></td><td></td><td>99.52</td><td>6.05</td><td>Average</td><td>336</td><td>18</td></tr><tr><td>4 *</td><td>5200.00</td><td>115.52</td><td></td><td></td><td>109.47</td><td>6.05</td><td>Peak</td><td>336</td><td>18</td></tr><tr><td>5</td><td>5350.00</td><td>43.16</td><td>54.00</td><td>-10.84</td><td>37.44</td><td>5.72</td><td>Average</td><td>336</td><td>18</td></tr><tr><td>6</td><td>5350.00</td><td>57.41</td><td>74.00</td><td>-16.59</td><td>51.69</td><td>5.72</td><td>Peak</td><td>336</td><td>18</td></tr><tr><td>7</td><td>10400.00</td><td>60.20</td><td>68.20</td><td>-8.00</td><td>45.52</td><td>14.68</td><td>Peak</td><td>100</td><td>297</td></tr><tr><td>8</td><td>15600.00</td><td>47.44</td><td>54.00</td><td>-6.56</td><td>31.50</td><td>15.94</td><td>Average</td><td>194</td><td>144</td></tr><tr><td>9</td><td>15600.00</td><td>60.25</td><td>74.00</td><td>-13.75</td><td>44.31</td><td>15.94</td><td>Peak</td><td>194</td><td>144</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	5150.00	45.24	54.00	-8.76	38.93	6.31	Average	336	18	2	5150.00	61.38	74.00	-12.62	55.07	6.31	Peak	336	18	3 *	5200.00	105.57			99.52	6.05	Average	336	18	4 *	5200.00	115.52			109.47	6.05	Peak	336	18	5	5350.00	43.16	54.00	-10.84	37.44	5.72	Average	336	18	6	5350.00	57.41	74.00	-16.59	51.69	5.72	Peak	336	18	7	10400.00	60.20	68.20	-8.00	45.52	14.68	Peak	100	297	8	15600.00	47.44	54.00	-6.56	31.50	15.94	Average	194	144	9	15600.00	60.25	74.00	-13.75	44.31	15.94	Peak	194	144
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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7	10400.00	60.20	68.20	-8.00	45.52	14.68	Peak	100	297																																																																																																																		
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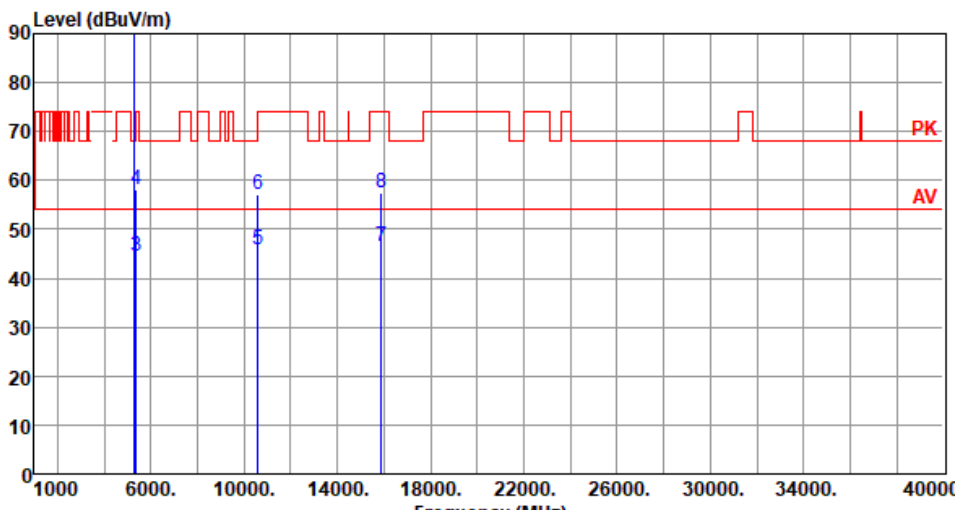
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>38.75</td><td>6.31</td><td>Average</td><td>336</td><td>19</td></tr><tr><td>2</td><td>5150.00</td><td>58.02</td><td>74.00</td><td>-15.98</td><td>51.71</td><td>6.31</td><td>Peak</td><td>336</td><td>19</td></tr><tr><td>3 *</td><td>5240.00</td><td>105.31</td><td></td><td></td><td>99.48</td><td>5.83</td><td>Average</td><td>336</td><td>19</td></tr><tr><td>4 *</td><td>5240.00</td><td>115.43</td><td></td><td></td><td>109.60</td><td>5.83</td><td>Peak</td><td>336</td><td>19</td></tr><tr><td>5</td><td>5350.00</td><td>43.35</td><td>54.00</td><td>-10.65</td><td>37.63</td><td>5.72</td><td>Average</td><td>336</td><td>19</td></tr><tr><td>6</td><td>5350.00</td><td>57.22</td><td>74.00</td><td>-16.78</td><td>51.50</td><td>5.72</td><td>Peak</td><td>336</td><td>19</td></tr><tr><td>7</td><td>10480.00</td><td>60.36</td><td>68.20</td><td>-7.84</td><td>45.77</td><td>14.59</td><td>Peak</td><td>100</td><td>301</td></tr><tr><td>8</td><td>15720.00</td><td>47.51</td><td>54.00</td><td>-6.49</td><td>31.60</td><td>15.91</td><td>Average</td><td>195</td><td>146</td></tr><tr><td>9</td><td>15720.00</td><td>60.32</td><td>74.00</td><td>-13.68</td><td>44.41</td><td>15.91</td><td>Peak</td><td>195</td><td>146</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency					Freq. 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	45.06	54.00	-8.94	38.75	6.31	Average	336	19	2	5150.00	58.02	74.00	-15.98	51.71	6.31	Peak	336	19	3 *	5240.00	105.31			99.48	5.83	Average	336	19	4 *	5240.00	115.43			109.60	5.83	Peak	336	19	5	5350.00	43.35	54.00	-10.65	37.63	5.72	Average	336	19	6	5350.00	57.22	74.00	-16.78	51.50	5.72	Peak	336	19	7	10480.00	60.36	68.20	-7.84	45.77	14.59	Peak	100	301	8	15720.00	47.51	54.00	-6.49	31.60	15.91	Average	195	146	9	15720.00	60.32	74.00	-13.68	44.41	15.91	Peak	195	146
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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5	5350.00	43.35	54.00	-10.65	37.63	5.72	Average	336	19																																																																																														
6	5350.00	57.22	74.00	-16.78	51.50	5.72	Peak	336	19																																																																																														
7	10480.00	60.36	68.20	-7.84	45.77	14.59	Peak	100	301																																																																																														
8	15720.00	47.51	54.00	-6.49	31.60	15.91	Average	195	146																																																																																														
9	15720.00	60.32	74.00	-13.68	44.41	15.91	Peak	195	146																																																																																														

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5260																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>46.60</td><td>54.00</td><td>-7.40</td><td>40.29</td><td>6.31</td><td>Average</td><td>348</td><td>54</td></tr><tr><td>2</td><td>5150.00</td><td>60.49</td><td>74.00</td><td>-13.51</td><td>54.18</td><td>6.31</td><td>Peak</td><td>348</td><td>54</td></tr><tr><td>3 *</td><td>5260.00</td><td>105.89</td><td></td><td></td><td>100.14</td><td>5.75</td><td>Average</td><td>348</td><td>54</td></tr><tr><td>4 *</td><td>5260.00</td><td>116.14</td><td></td><td></td><td>110.39</td><td>5.75</td><td>Peak</td><td>348</td><td>54</td></tr><tr><td>5</td><td>5350.00</td><td>46.64</td><td>54.00</td><td>-7.36</td><td>40.92</td><td>5.72</td><td>Average</td><td>348</td><td>54</td></tr><tr><td>6</td><td>5350.00</td><td>60.64</td><td>74.00</td><td>-13.36</td><td>54.92</td><td>5.72</td><td>Peak</td><td>348</td><td>54</td></tr><tr><td>7</td><td>10520.00</td><td>57.61</td><td>68.20</td><td>-10.59</td><td>43.00</td><td>14.61</td><td>Peak</td><td>285</td><td>19</td></tr><tr><td>8</td><td>15780.00</td><td>47.25</td><td>54.00</td><td>-6.75</td><td>31.55</td><td>15.70</td><td>Average</td><td>100</td><td>201</td></tr><tr><td>9</td><td>15780.00</td><td>58.14</td><td>74.00</td><td>-15.86</td><td>42.44</td><td>15.70</td><td>Peak</td><td>100</td><td>201</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency					Freq. 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	46.60	54.00	-7.40	40.29	6.31	Average	348	54	2	5150.00	60.49	74.00	-13.51	54.18	6.31	Peak	348	54	3 *	5260.00	105.89			100.14	5.75	Average	348	54	4 *	5260.00	116.14			110.39	5.75	Peak	348	54	5	5350.00	46.64	54.00	-7.36	40.92	5.72	Average	348	54	6	5350.00	60.64	74.00	-13.36	54.92	5.72	Peak	348	54	7	10520.00	57.61	68.20	-10.59	43.00	14.61	Peak	285	19	8	15780.00	47.25	54.00	-6.75	31.55	15.70	Average	100	201	9	15780.00	58.14	74.00	-15.86	42.44	15.70	Peak	100	201
	Freq. 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	46.60	54.00	-7.40	40.29	6.31	Average	348	54																																																																																														
2	5150.00	60.49	74.00	-13.51	54.18	6.31	Peak	348	54																																																																																														
3 *	5260.00	105.89			100.14	5.75	Average	348	54																																																																																														
4 *	5260.00	116.14			110.39	5.75	Peak	348	54																																																																																														
5	5350.00	46.64	54.00	-7.36	40.92	5.72	Average	348	54																																																																																														
6	5350.00	60.64	74.00	-13.36	54.92	5.72	Peak	348	54																																																																																														
7	10520.00	57.61	68.20	-10.59	43.00	14.61	Peak	285	19																																																																																														
8	15780.00	47.25	54.00	-6.75	31.55	15.70	Average	100	201																																																																																														
9	15780.00	58.14	74.00	-15.86	42.44	15.70	Peak	100	201																																																																																														

Modulation		11a		Test Freq. (MHz)		5300																																																																																																																		
Polarization		Horizontal																																																																																																																						
Test By		:Akun Chung		Temperature(°C):22		Humidity(%):63																																																																																																																		
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5300.00</td><td>99.58</td><td></td><td></td><td>93.89</td><td>5.69</td><td>Average</td><td>16</td></tr><tr><td>2</td><td>*</td><td>5300.00</td><td>109.51</td><td></td><td></td><td>103.82</td><td>5.69</td><td>Peak</td><td>16</td></tr><tr><td>3</td><td></td><td>5350.00</td><td>44.42</td><td>54.00</td><td>-9.58</td><td>38.70</td><td>5.72</td><td>Average</td><td>16</td></tr><tr><td>4</td><td></td><td>5350.00</td><td>58.16</td><td>74.00</td><td>-15.84</td><td>52.44</td><td>5.72</td><td>Peak</td><td>16</td></tr><tr><td>5</td><td></td><td>10600.00</td><td>45.95</td><td>54.00</td><td>-8.05</td><td>31.13</td><td>14.82</td><td>Average</td><td>300</td></tr><tr><td>6</td><td></td><td>10600.00</td><td>57.02</td><td>74.00</td><td>-16.98</td><td>42.20</td><td>14.82</td><td>Peak</td><td>300</td></tr><tr><td>7</td><td></td><td>15900.00</td><td>46.52</td><td>54.00</td><td>-7.48</td><td>31.05</td><td>15.47</td><td>Average</td><td>152</td></tr><tr><td>8</td><td></td><td>15900.00</td><td>57.61</td><td>74.00</td><td>-16.39</td><td>42.14</td><td>15.47</td><td>Peak</td><td>152</td></tr></tbody></table>												Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table									cm	deg	1	*	5300.00	99.58			93.89	5.69	Average	16	2	*	5300.00	109.51			103.82	5.69	Peak	16	3		5350.00	44.42	54.00	-9.58	38.70	5.72	Average	16	4		5350.00	58.16	74.00	-15.84	52.44	5.72	Peak	16	5		10600.00	45.95	54.00	-8.05	31.13	14.82	Average	300	6		10600.00	57.02	74.00	-16.98	42.20	14.82	Peak	300	7		15900.00	46.52	54.00	-7.48	31.05	15.47	Average	152	8		15900.00	57.61	74.00	-16.39	42.14	15.47	Peak	152
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																															
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Modulation	11a	Test Freq. (MHz)	5300																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																																																																	
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5300.00</td><td>105.82</td><td></td><td>100.13</td><td>5.69</td><td>Average</td><td>348</td><td>49</td></tr><tr><td>2</td><td>*</td><td>5300.00</td><td>115.98</td><td></td><td>110.29</td><td>5.69</td><td>Peak</td><td>348</td><td>49</td></tr><tr><td>3</td><td></td><td>5350.00</td><td>47.56</td><td>54.00</td><td>-6.44</td><td>41.84</td><td>5.72</td><td>Average</td><td>348</td></tr><tr><td>4</td><td></td><td>5350.00</td><td>61.39</td><td>74.00</td><td>-12.61</td><td>55.67</td><td>5.72</td><td>Peak</td><td>348</td></tr><tr><td>5</td><td></td><td>10600.00</td><td>47.65</td><td>54.00</td><td>-6.35</td><td>32.83</td><td>14.82</td><td>Average</td><td>288</td></tr><tr><td>6</td><td></td><td>10600.00</td><td>57.73</td><td>74.00</td><td>-16.27</td><td>42.91</td><td>14.82</td><td>Peak</td><td>288</td></tr><tr><td>7</td><td></td><td>15900.00</td><td>47.37</td><td>54.00</td><td>-6.63</td><td>31.90</td><td>15.47</td><td>Average</td><td>100</td></tr><tr><td>8</td><td></td><td>15900.00</td><td>58.28</td><td>74.00</td><td>-15.72</td><td>42.81</td><td>15.47</td><td>Peak</td><td>100</td></tr></tbody></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	*	5300.00	105.82		100.13	5.69	Average	348	49	2	*	5300.00	115.98		110.29	5.69	Peak	348	49	3		5350.00	47.56	54.00	-6.44	41.84	5.72	Average	348	4		5350.00	61.39	74.00	-12.61	55.67	5.72	Peak	348	5		10600.00	47.65	54.00	-6.35	32.83	14.82	Average	288	6		10600.00	57.73	74.00	-16.27	42.91	14.82	Peak	288	7		15900.00	47.37	54.00	-6.63	31.90	15.47	Average	100	8		15900.00	58.28	74.00	-15.72	42.81	15.47	Peak	100
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	11a	Test Freq. (MHz)	5320							
Polarization	Horizontal									
Test By :Brad Wu Temperature(°C):22 Humidity(%):63										
Level (dBuV/m) Frequency (MHz)										
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	
	MHz	level			reading			High	Table	
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	
1	*	5320.00	99.35		93.64	5.71	Average	324	18	
2	*	5320.00	109.46		103.75	5.71	Peak	324	18	
3		5350.00	44.16	54.00	-9.84	38.44	5.72	Average	324	18
4		5350.00	56.71	74.00	-17.29	50.99	5.72	Peak	324	18
5		10640.00	46.45	54.00	-7.55	31.65	14.80	Average	100	306
6		10640.00	57.12	74.00	-16.88	42.32	14.80	Peak	100	306
7		15960.00	46.69	54.00	-7.31	31.08	15.61	Average	100	148
8		15960.00	57.82	74.00	-16.18	42.21	15.61	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).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation		11a		Test Freq. (MHz)		5320																																																																																																																													
Polarization		Vertical																																																																																																																																	
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																																													
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																									
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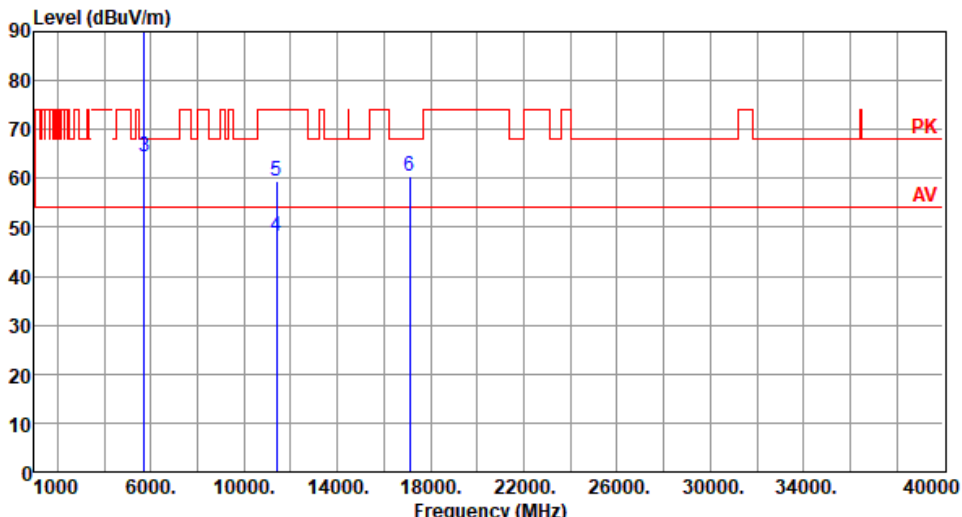
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Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) <			

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) </			

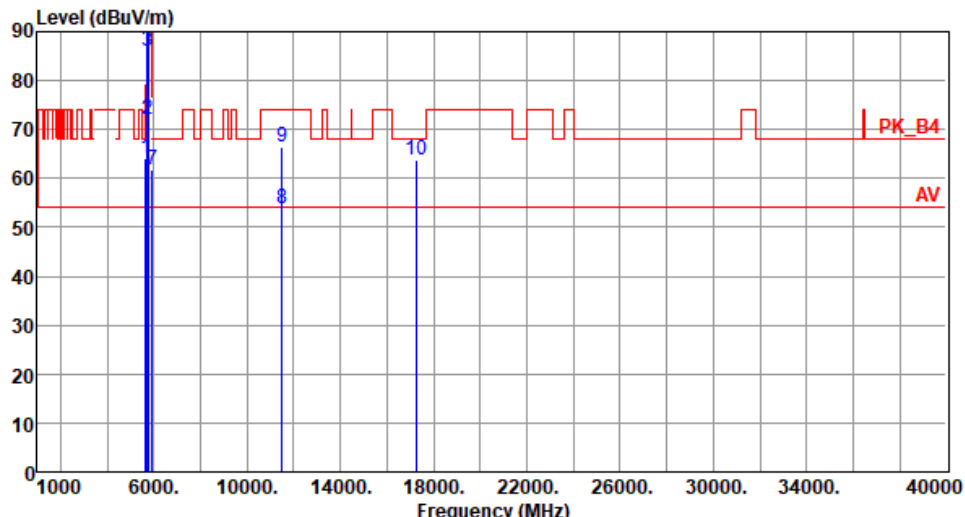
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5700																																																																																										
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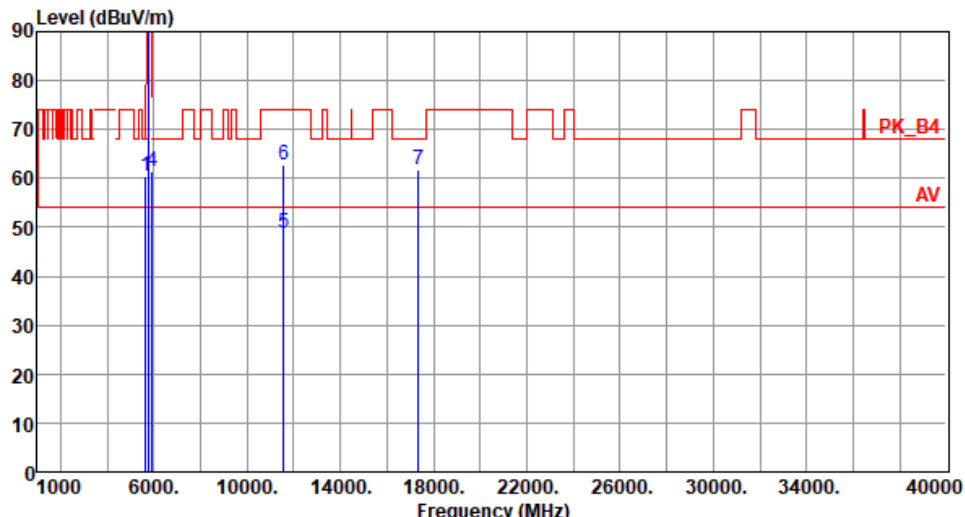
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

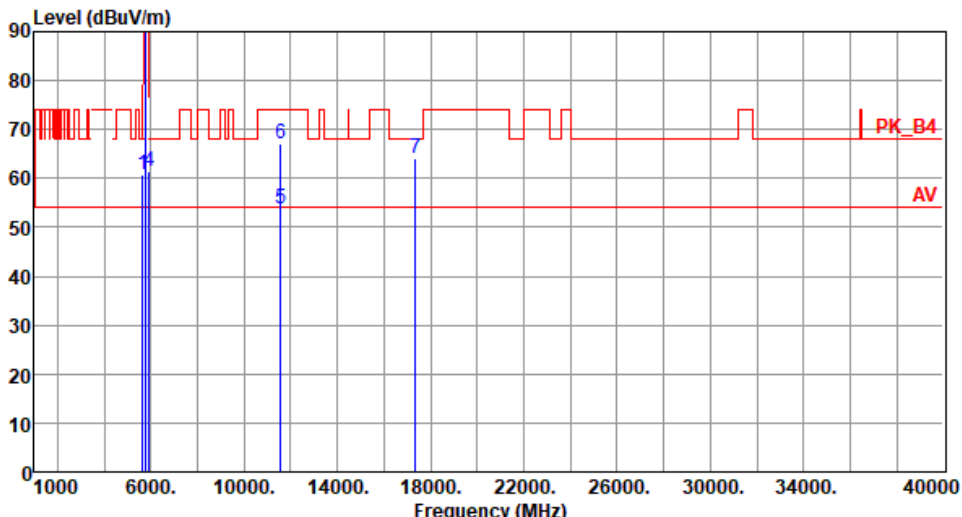
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5745						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	63.97	68.20	-4.23	57.75	6.22	Peak	280	233
2	5700.00	72.18	105.20	-33.02	65.75	6.43	Peak	280	233
3	5720.00	86.08	110.80	-24.72	79.60	6.48	Peak	280	233
4	5725.00	95.23	122.20	-26.97	88.74	6.49	Peak	280	233
5 *	5745.00	113.80			107.26	6.54	Average	280	233
6 *	5745.00	123.74			117.20	6.54	Peak	280	233
7	5925.00	61.81	68.20	-6.39	54.78	7.03	Peak	280	233
8	11490.00	53.82	54.00	-0.18	38.43	15.39	Average	282	12
9	11490.00	66.26	74.00	-7.74	50.87	15.39	Peak	282	12
10	17235.00	63.67	68.20	-4.53	45.58	18.09	Peak	100	303

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5785																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>60.41</td><td>68.20</td><td>-7.79</td><td>54.19</td><td>6.22</td><td>Peak</td><td>302</td><td>195</td></tr><tr><td>2 *</td><td>5785.00</td><td>102.05</td><td></td><td></td><td>95.41</td><td>6.64</td><td>Average</td><td>302</td><td>195</td></tr><tr><td>3 *</td><td>5785.00</td><td>113.00</td><td></td><td></td><td>106.36</td><td>6.64</td><td>Peak</td><td>302</td><td>195</td></tr><tr><td>4</td><td>5925.00</td><td>61.31</td><td>68.20</td><td>-6.89</td><td>54.28</td><td>7.03</td><td>Peak</td><td>302</td><td>195</td></tr><tr><td>5</td><td>11570.00</td><td>48.87</td><td>54.00</td><td>-5.13</td><td>33.56</td><td>15.31</td><td>Average</td><td>256</td><td>346</td></tr><tr><td>6</td><td>11570.00</td><td>62.84</td><td>74.00</td><td>-11.16</td><td>47.53</td><td>15.31</td><td>Peak</td><td>256</td><td>346</td></tr><tr><td>7</td><td>17355.00</td><td>61.72</td><td>68.20</td><td>-6.48</td><td>42.89</td><td>18.83</td><td>Peak</td><td>100</td><td>11</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	60.41	68.20	-7.79	54.19	6.22	Peak	302	195	2 *	5785.00	102.05			95.41	6.64	Average	302	195	3 *	5785.00	113.00			106.36	6.64	Peak	302	195	4	5925.00	61.31	68.20	-6.89	54.28	7.03	Peak	302	195	5	11570.00	48.87	54.00	-5.13	33.56	15.31	Average	256	346	6	11570.00	62.84	74.00	-11.16	47.53	15.31	Peak	256	346	7	17355.00	61.72	68.20	-6.48	42.89	18.83	Peak	100	11
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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3 *	5785.00	113.00			106.36	6.64	Peak	302	195																																																																										
4	5925.00	61.31	68.20	-6.89	54.28	7.03	Peak	302	195																																																																										
5	11570.00	48.87	54.00	-5.13	33.56	15.31	Average	256	346																																																																										
6	11570.00	62.84	74.00	-11.16	47.53	15.31	Peak	256	346																																																																										
7	17355.00	61.72	68.20	-6.48	42.89	18.83	Peak	100	11																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																			

Modulation	11a	Test Freq. (MHz)	5785																																																																																	
Polarization	Vertical																																																																																			
Test By :Akun Chung Temperature(°C):24 Humidity(%):64																																																																																				
																																																																																				
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>60.81</td><td>68.20</td><td>-7.39</td><td>54.59</td><td>6.22</td><td>Peak</td><td>299</td><td>290</td></tr><tr><td>2 *</td><td>5785.00</td><td>113.64</td><td></td><td></td><td>107.00</td><td>6.64</td><td>Average</td><td>299</td><td>290</td></tr><tr><td>3 *</td><td>5785.00</td><td>123.86</td><td></td><td></td><td>117.22</td><td>6.64</td><td>Peak</td><td>299</td><td>290</td></tr><tr><td>4</td><td>5925.00</td><td>61.55</td><td>68.20</td><td>-6.65</td><td>54.52</td><td>7.03</td><td>Peak</td><td>299</td><td>290</td></tr><tr><td>5</td><td>11570.00</td><td>53.88</td><td>54.00</td><td>-0.12</td><td>38.57</td><td>15.31</td><td>Average</td><td>275</td><td>11</td></tr><tr><td>6</td><td>11570.00</td><td>67.22</td><td>74.00</td><td>-6.78</td><td>51.91</td><td>15.31</td><td>Peak</td><td>275</td><td>11</td></tr><tr><td>7</td><td>17355.00</td><td>64.10</td><td>68.20</td><td>-4.10</td><td>45.27</td><td>18.83</td><td>Peak</td><td>100</td><td>301</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	60.81	68.20	-7.39	54.59	6.22	Peak	299	290	2 *	5785.00	113.64			107.00	6.64	Average	299	290	3 *	5785.00	123.86			117.22	6.64	Peak	299	290	4	5925.00	61.55	68.20	-6.65	54.52	7.03	Peak	299	290	5	11570.00	53.88	54.00	-0.12	38.57	15.31	Average	275	11	6	11570.00	67.22	74.00	-6.78	51.91	15.31	Peak	275	11	7	17355.00	64.10	68.20	-4.10	45.27	18.83	Peak	100	301			
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																											
1	5650.00	60.81	68.20	-7.39	54.59	6.22	Peak	299	290																																																																											
2 *	5785.00	113.64			107.00	6.64	Average	299	290																																																																											
3 *	5785.00	123.86			117.22	6.64	Peak	299	290																																																																											
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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (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 :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

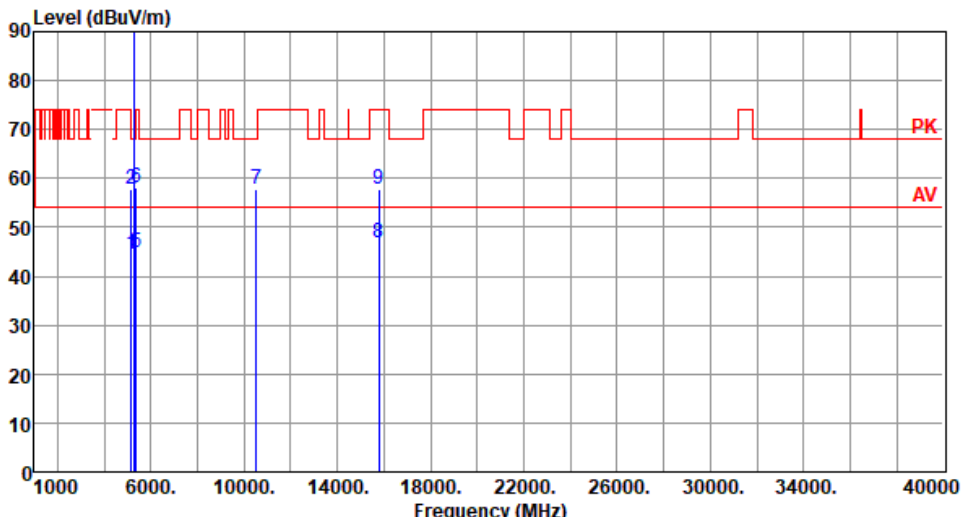
Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) </			

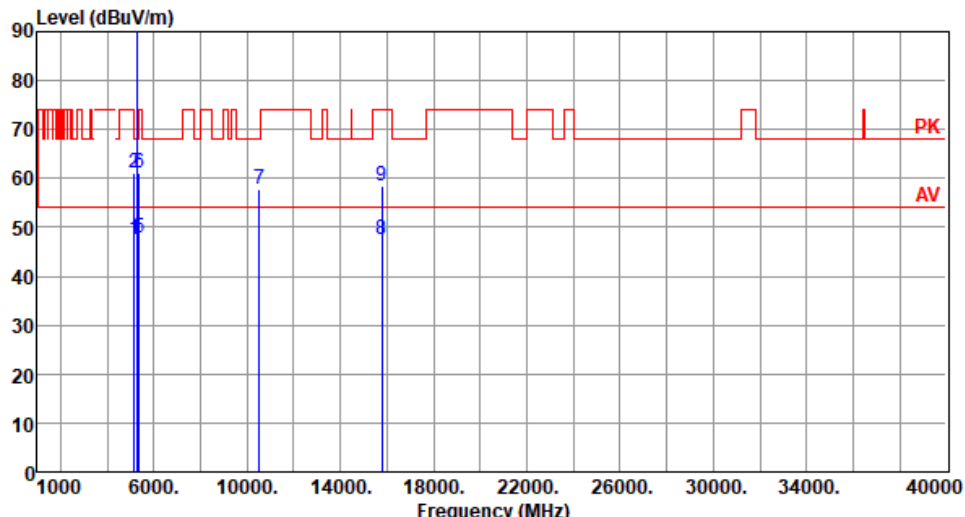
Modulation	ax HE20		Test Freq. (MHz)		5200	
Polarization	Horizontal					
Test By :Brad Wu Temperature(°C):22 Humidity(%):63						
Level (dBUV/m)						

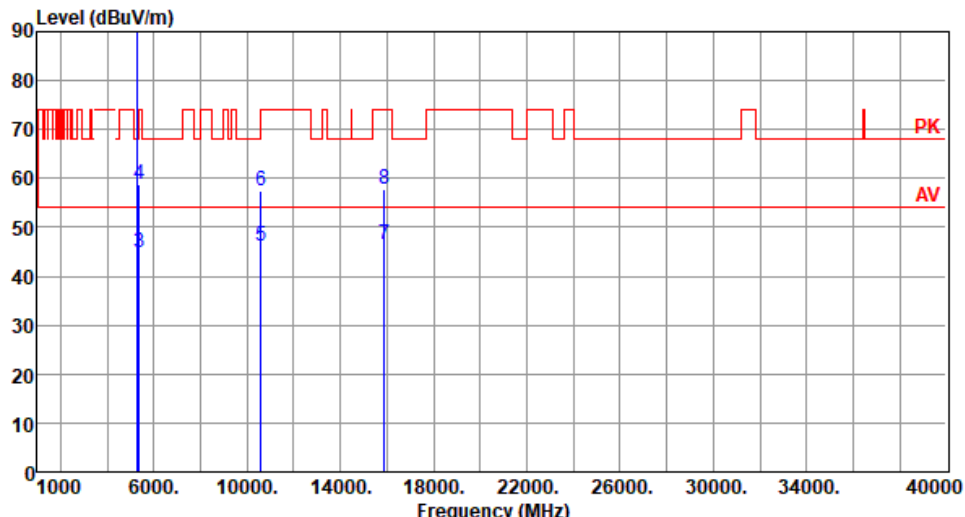
Modulation	ax HE20		Test Freq. (MHz)		5200	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):22 Humidity(%):63						
Level (dBuV/m)						

Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) </			

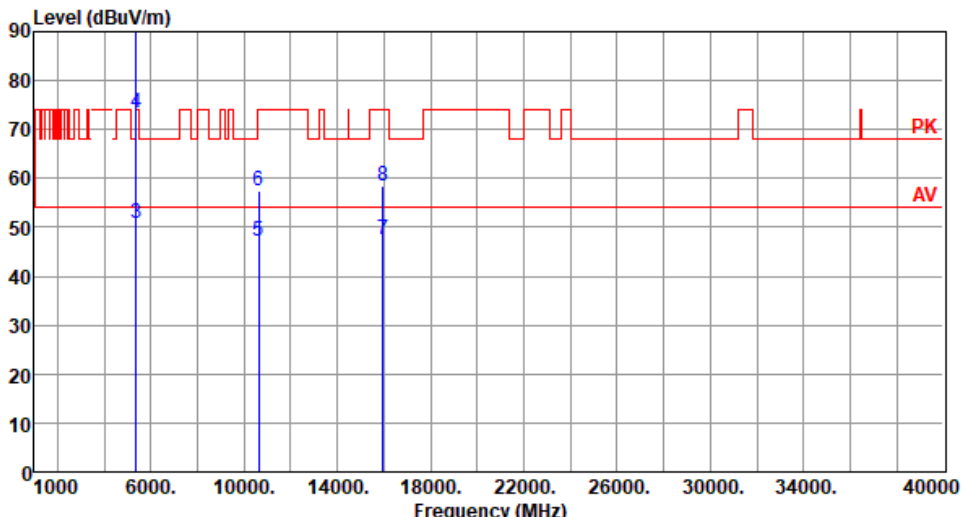
Modulation	ax HE20	Test Freq. (MHz)	5260																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																																							
Level (dBUV/m)  <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>44.58</td><td>54.00</td><td>-9.42</td><td>38.27</td><td>6.31</td><td>Average</td><td>334</td><td>322</td></tr><tr><td>2</td><td>5150.00</td><td>57.94</td><td>74.00</td><td>-16.06</td><td>51.63</td><td>6.31</td><td>Peak</td><td>334</td><td>322</td></tr><tr><td>3 *</td><td>5260.00</td><td>98.24</td><td></td><td></td><td>92.49</td><td>5.75</td><td>Average</td><td>334</td><td>322</td></tr><tr><td>4 *</td><td>5260.00</td><td>109.96</td><td></td><td></td><td>104.21</td><td>5.75</td><td>Peak</td><td>334</td><td>322</td></tr><tr><td>5</td><td>5350.00</td><td>44.69</td><td>54.00</td><td>-9.31</td><td>38.97</td><td>5.72</td><td>Average</td><td>334</td><td>322</td></tr><tr><td>6</td><td>5350.00</td><td>58.06</td><td>74.00</td><td>-15.94</td><td>52.34</td><td>5.72</td><td>Peak</td><td>334</td><td>322</td></tr><tr><td>7</td><td>10520.00</td><td>57.68</td><td>68.20</td><td>-10.52</td><td>43.07</td><td>14.61</td><td>Peak</td><td>100</td><td>298</td></tr><tr><td>8</td><td>15780.00</td><td>46.75</td><td>54.00</td><td>-7.25</td><td>31.05</td><td>15.70</td><td>Average</td><td>100</td><td>155</td></tr><tr><td>9</td><td>15780.00</td><td>57.84</td><td>74.00</td><td>-16.16</td><td>42.14</td><td>15.70</td><td>Peak</td><td>100</td><td>155</td></tr></tbody></table>					Freq. 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	44.58	54.00	-9.42	38.27	6.31	Average	334	322	2	5150.00	57.94	74.00	-16.06	51.63	6.31	Peak	334	322	3 *	5260.00	98.24			92.49	5.75	Average	334	322	4 *	5260.00	109.96			104.21	5.75	Peak	334	322	5	5350.00	44.69	54.00	-9.31	38.97	5.72	Average	334	322	6	5350.00	58.06	74.00	-15.94	52.34	5.72	Peak	334	322	7	10520.00	57.68	68.20	-10.52	43.07	14.61	Peak	100	298	8	15780.00	46.75	54.00	-7.25	31.05	15.70	Average	100	155	9	15780.00	57.84	74.00	-16.16	42.14	15.70	Peak	100	155
	Freq. 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	44.58	54.00	-9.42	38.27	6.31	Average	334	322																																																																																														
2	5150.00	57.94	74.00	-16.06	51.63	6.31	Peak	334	322																																																																																														
3 *	5260.00	98.24			92.49	5.75	Average	334	322																																																																																														
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7	10520.00	57.68	68.20	-10.52	43.07	14.61	Peak	100	298																																																																																														
8	15780.00	46.75	54.00	-7.25	31.05	15.70	Average	100	155																																																																																														
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Note 1: Emission Level (dBUV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency																																																																																																							

Modulation	ax HE20	Test Freq. (MHz)	5260																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																																																											
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>47.60</td><td>54.00</td><td>-6.40</td><td>41.29</td><td>6.31</td><td>Average</td><td>332</td><td>58</td></tr><tr><td>2</td><td>5150.00</td><td>61.01</td><td>74.00</td><td>-12.99</td><td>54.70</td><td>6.31</td><td>Peak</td><td>332</td><td>58</td></tr><tr><td>3 *</td><td>5260.00</td><td>105.61</td><td></td><td></td><td>99.86</td><td>5.75</td><td>Average</td><td>332</td><td>58</td></tr><tr><td>4 *</td><td>5260.00</td><td>117.18</td><td></td><td></td><td>111.43</td><td>5.75</td><td>Peak</td><td>332</td><td>58</td></tr><tr><td>5</td><td>5350.00</td><td>47.81</td><td>54.00</td><td>-6.19</td><td>42.09</td><td>5.72</td><td>Average</td><td>332</td><td>58</td></tr><tr><td>6</td><td>5350.00</td><td>61.15</td><td>74.00</td><td>-12.85</td><td>55.43</td><td>5.72</td><td>Peak</td><td>332</td><td>58</td></tr><tr><td>7</td><td>10520.00</td><td>57.94</td><td>68.20</td><td>-10.26</td><td>43.33</td><td>14.61</td><td>Peak</td><td>281</td><td>25</td></tr><tr><td>8</td><td>15780.00</td><td>47.48</td><td>54.00</td><td>-6.52</td><td>31.78</td><td>15.70</td><td>Average</td><td>100</td><td>214</td></tr><tr><td>9</td><td>15780.00</td><td>58.36</td><td>74.00</td><td>-15.64</td><td>42.66</td><td>15.70</td><td>Peak</td><td>100</td><td>214</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	47.60	54.00	-6.40	41.29	6.31	Average	332	58	2	5150.00	61.01	74.00	-12.99	54.70	6.31	Peak	332	58	3 *	5260.00	105.61			99.86	5.75	Average	332	58	4 *	5260.00	117.18			111.43	5.75	Peak	332	58	5	5350.00	47.81	54.00	-6.19	42.09	5.72	Average	332	58	6	5350.00	61.15	74.00	-12.85	55.43	5.72	Peak	332	58	7	10520.00	57.94	68.20	-10.26	43.33	14.61	Peak	281	25	8	15780.00	47.48	54.00	-6.52	31.78	15.70	Average	100	214	9	15780.00	58.36	74.00	-15.64	42.66	15.70	Peak	100	214
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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1	5150.00	47.60	54.00	-6.40	41.29	6.31	Average	332	58																																																																																																																		
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7	10520.00	57.94	68.20	-10.26	43.33	14.61	Peak	281	25																																																																																																																		
8	15780.00	47.48	54.00	-6.52	31.78	15.70	Average	100	214																																																																																																																		
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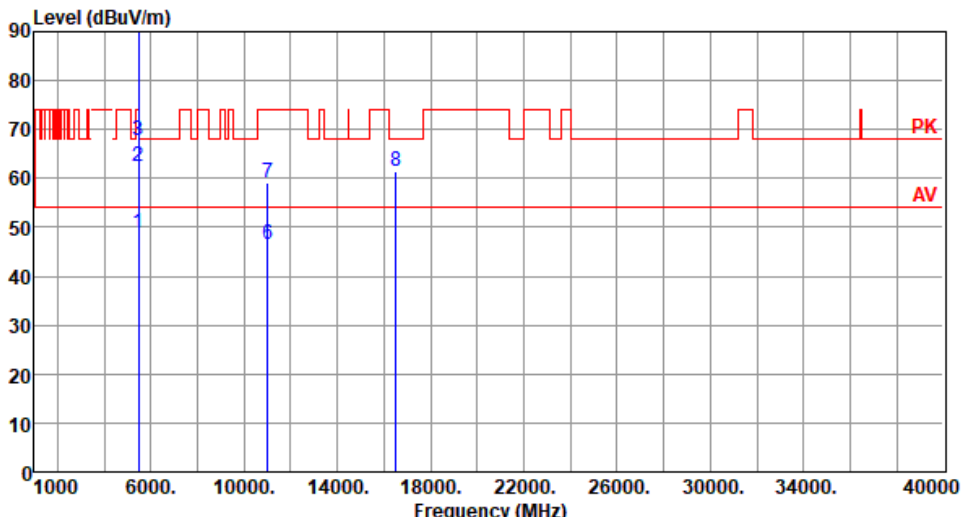
Modulation	ax HE20	Test Freq. (MHz)	5300																																																																																										
Polarization	Horizontal																																																																																												
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1 *</td><td>5300.00</td><td>98.75</td><td></td><td></td><td>93.06</td><td>5.69</td><td>Average</td><td>341</td><td>339</td></tr><tr><td>2 *</td><td>5300.00</td><td>110.62</td><td></td><td></td><td>104.93</td><td>5.69</td><td>Peak</td><td>341</td><td>339</td></tr><tr><td>3</td><td>5350.00</td><td>44.80</td><td>54.00</td><td>-9.20</td><td>39.08</td><td>5.72</td><td>Average</td><td>341</td><td>339</td></tr><tr><td>4</td><td>5350.00</td><td>58.65</td><td>74.00</td><td>-15.35</td><td>52.93</td><td>5.72</td><td>Peak</td><td>341</td><td>339</td></tr><tr><td>5</td><td>10600.00</td><td>46.24</td><td>54.00</td><td>-7.76</td><td>31.42</td><td>14.82</td><td>Average</td><td>100</td><td>291</td></tr><tr><td>6</td><td>10600.00</td><td>57.41</td><td>74.00</td><td>-16.59</td><td>42.59</td><td>14.82</td><td>Peak</td><td>100</td><td>291</td></tr><tr><td>7</td><td>15900.00</td><td>46.59</td><td>54.00</td><td>-7.41</td><td>31.12</td><td>15.47</td><td>Average</td><td>100</td><td>135</td></tr><tr><td>8</td><td>15900.00</td><td>57.88</td><td>74.00</td><td>-16.12</td><td>42.41</td><td>15.47</td><td>Peak</td><td>100</td><td>135</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1 *	5300.00	98.75			93.06	5.69	Average	341	339	2 *	5300.00	110.62			104.93	5.69	Peak	341	339	3	5350.00	44.80	54.00	-9.20	39.08	5.72	Average	341	339	4	5350.00	58.65	74.00	-15.35	52.93	5.72	Peak	341	339	5	10600.00	46.24	54.00	-7.76	31.42	14.82	Average	100	291	6	10600.00	57.41	74.00	-16.59	42.59	14.82	Peak	100	291	7	15900.00	46.59	54.00	-7.41	31.12	15.47	Average	100	135	8	15900.00	57.88	74.00	-16.12	42.41	15.47	Peak	100	135
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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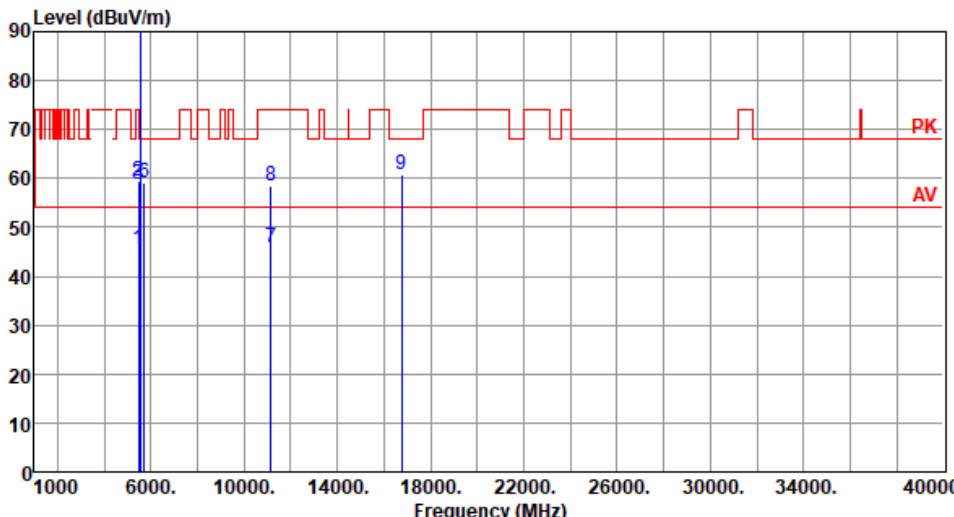
Modulation		ax HE20		Test Freq. (MHz)		5300																																																																																																																													
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Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																																													
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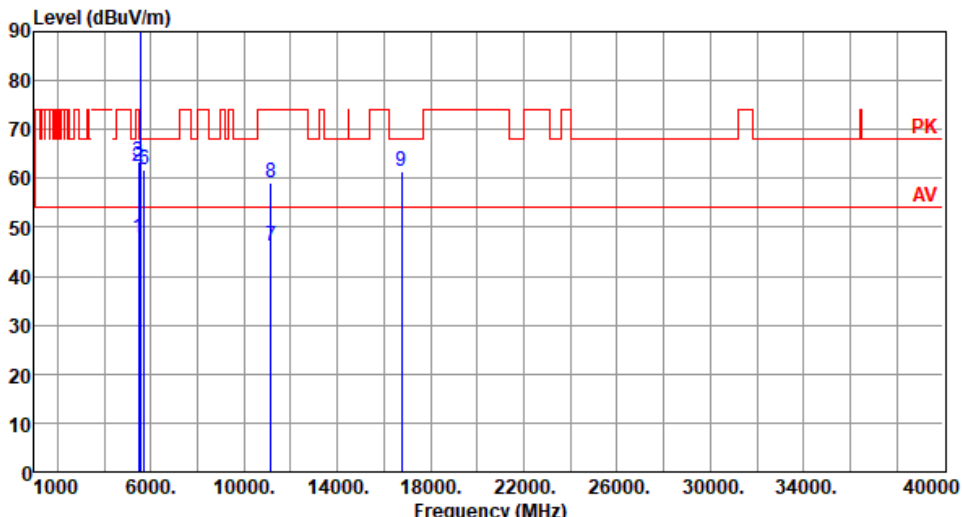
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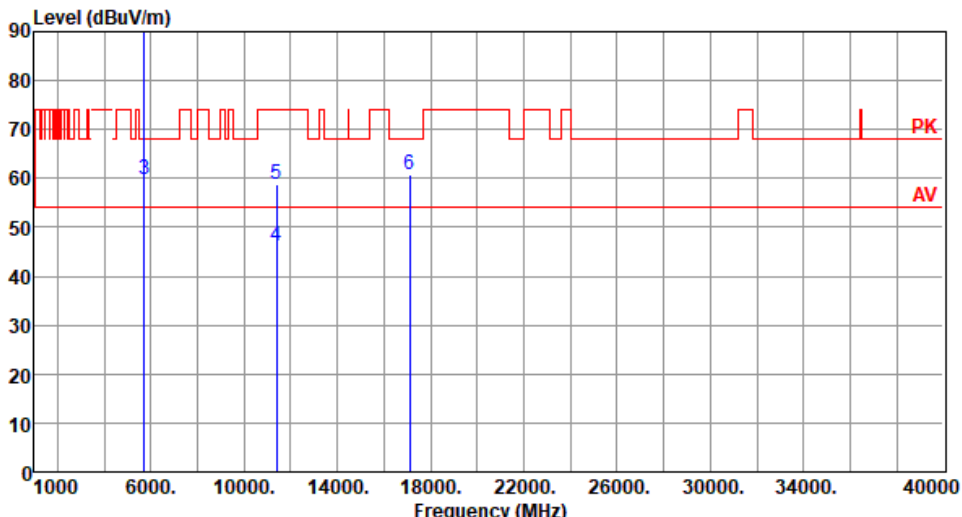
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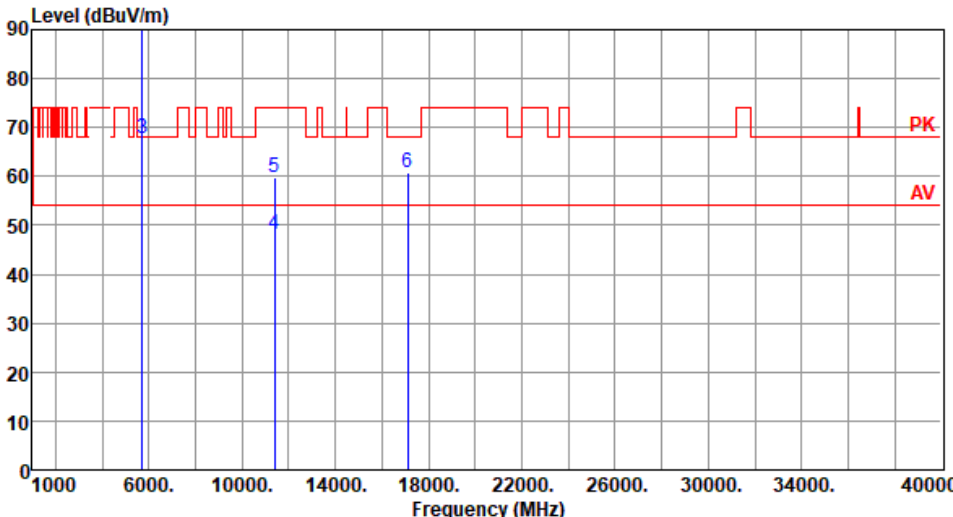
Modulation	ax HE20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

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Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>45.59</td><td>54.00</td><td>-8.41</td><td>39.29</td><td>6.30</td><td>Average</td><td>331</td><td>354</td></tr><tr><td>2</td><td>5460.00</td><td>59.40</td><td>74.00</td><td>-14.60</td><td>53.10</td><td>6.30</td><td>Peak</td><td>331</td><td>354</td></tr><tr><td>3</td><td>5470.00</td><td>58.78</td><td>68.20</td><td>-9.42</td><td>52.46</td><td>6.32</td><td>Peak</td><td>331</td><td>354</td></tr><tr><td>4 *</td><td>5580.00</td><td>99.49</td><td></td><td></td><td>93.23</td><td>6.26</td><td>Average</td><td>331</td><td>354</td></tr><tr><td>5 *</td><td>5580.00</td><td>110.72</td><td></td><td></td><td>104.46</td><td>6.26</td><td>Peak</td><td>331</td><td>354</td></tr><tr><td>6</td><td>5725.00</td><td>59.11</td><td>68.20</td><td>-9.09</td><td>52.62</td><td>6.49</td><td>Peak</td><td>331</td><td>354</td></tr><tr><td>7</td><td>11160.00</td><td>45.92</td><td>54.00</td><td>-8.08</td><td>30.87</td><td>15.05</td><td>Average</td><td>100</td><td>241</td></tr><tr><td>8</td><td>11160.00</td><td>58.59</td><td>74.00</td><td>-15.41</td><td>43.54</td><td>15.05</td><td>Peak</td><td>100</td><td>241</td></tr><tr><td>9</td><td>16740.00</td><td>60.75</td><td>68.20</td><td>-7.45</td><td>42.95</td><td>17.80</td><td>Peak</td><td>100</td><td>53</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency					Freq. 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	45.59	54.00	-8.41	39.29	6.30	Average	331	354	2	5460.00	59.40	74.00	-14.60	53.10	6.30	Peak	331	354	3	5470.00	58.78	68.20	-9.42	52.46	6.32	Peak	331	354	4 *	5580.00	99.49			93.23	6.26	Average	331	354	5 *	5580.00	110.72			104.46	6.26	Peak	331	354	6	5725.00	59.11	68.20	-9.09	52.62	6.49	Peak	331	354	7	11160.00	45.92	54.00	-8.08	30.87	15.05	Average	100	241	8	11160.00	58.59	74.00	-15.41	43.54	15.05	Peak	100	241	9	16740.00	60.75	68.20	-7.45	42.95	17.80	Peak	100	53
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	ax HE20	Test Freq. (MHz)	5580																																																																																																				
Polarization	Vertical																																																																																																						
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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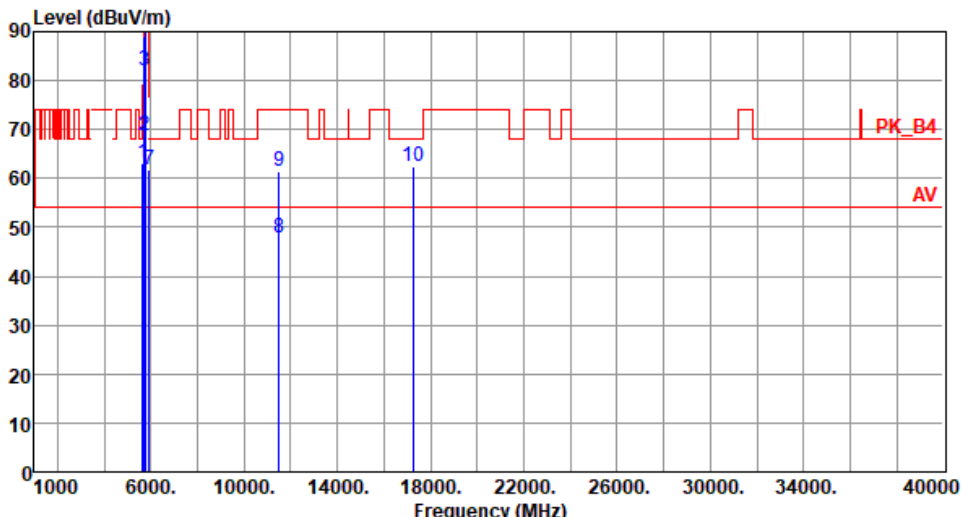
Modulation		ax HE20		Test Freq. (MHz)		5700																																																																																																							
Polarization		Horizontal																																																																																																											
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																							
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		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																			
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Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency																																																																																																													

Modulation		ax HE20	Test Freq. (MHz)		5700					
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63				
										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	5700.00	103.62			97.19	6.43	Average	306	65
2	*	5700.00	116.02			109.59	6.43	Peak	306	65
3		5725.00	67.79	68.20	-0.41	61.30	6.49	Peak	341	324
4		11400.00	48.21	54.00	-5.79	32.96	15.25	Average	311	329
5		11400.00	59.82	74.00	-14.18	44.57	15.25	Peak	311	329
6		17100.00	60.94	68.20	-7.26	42.99	17.95	Peak	100	78

Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency

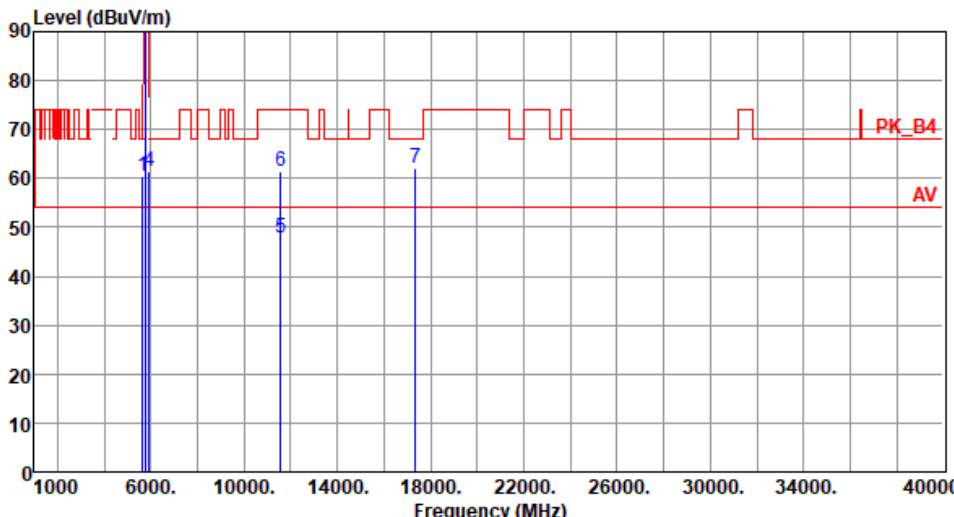
Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) <			

Modulation	ax HE20	Test Freq. (MHz)	5745						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5650.00	63.07	68.20	-5.13	56.85	6.22	Peak	308	185
2	5700.00	68.79	105.20	-36.41	62.36	6.43	Peak	308	185
3	5720.00	82.06	110.80	-28.74	75.58	6.48	Peak	308	185
4	5725.00	89.15	122.20	-33.05	82.66	6.49	Peak	308	185
5 *	5745.00	101.93			95.39	6.54	Average	308	185
6 *	5745.00	113.02			106.48	6.54	Peak	308	185
7	5925.00	61.90	68.20	-6.30	54.87	7.03	Peak	308	185
8	11490.00	47.72	54.00	-6.28	32.33	15.39	Average	252	341
9	11490.00	61.27	74.00	-12.73	45.88	15.39	Peak	252	341
10	17235.00	62.46	68.20	-5.74	44.37	18.09	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

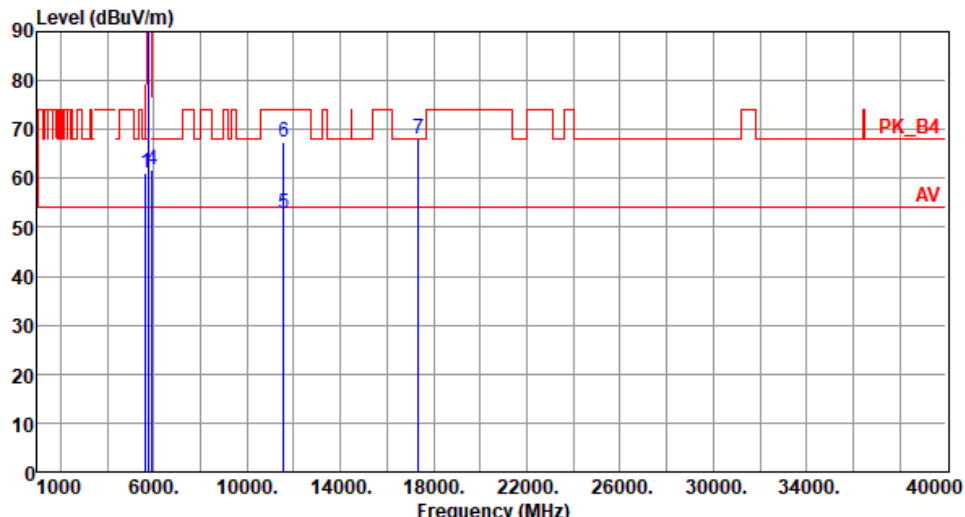
Modulation	ax HE20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

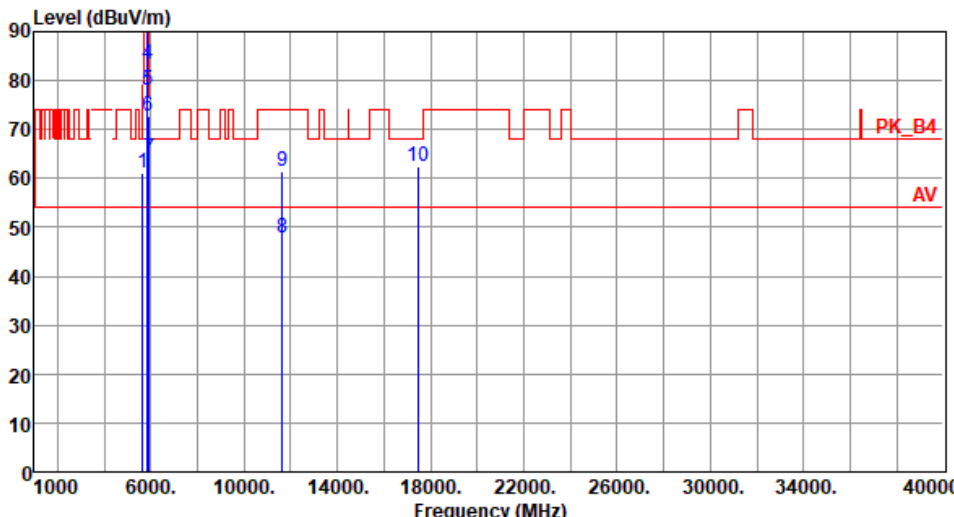
Modulation	ax HE20	Test Freq. (MHz)	5785						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):24 Humidity(%):64									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.50	68.20	-7.70	54.28	6.22	Peak	309	198
2 *	5785.00	101.74			95.10	6.64	Average	309	198
3 *	5785.00	112.68			106.04	6.64	Peak	309	198
4	5925.00	61.39	68.20	-6.81	54.36	7.03	Peak	309	198
5	11570.00	47.74	54.00	-6.26	32.43	15.31	Average	243	342
6	11570.00	61.43	74.00	-12.57	46.12	15.31	Peak	243	342
7	17355.00	62.22	68.20	-5.98	43.39	18.83	Peak	100	14

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

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

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	ax HE20	Test Freq. (MHz)	5785																																																																																
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1	5650.00	61.00	68.20	-7.20	54.78	6.22	Peak	295	287																																																																										
2 *	5785.00	113.49			106.85	6.64	Average	295	287																																																																										
3 *	5785.00	123.63			116.99	6.64	Peak	295	287																																																																										
4	5925.00	61.66	68.20	-6.54	54.63	7.03	Peak	295	287																																																																										
5	11570.00	52.79	54.00	-1.21	37.48	15.31	Average	278	1																																																																										
6	11570.00	67.36	74.00	-6.64	52.05	15.31	Peak	278	1																																																																										
7	17355.00	68.06	68.20	-0.14	49.23	18.83	Peak	201	286																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency																																																																																			

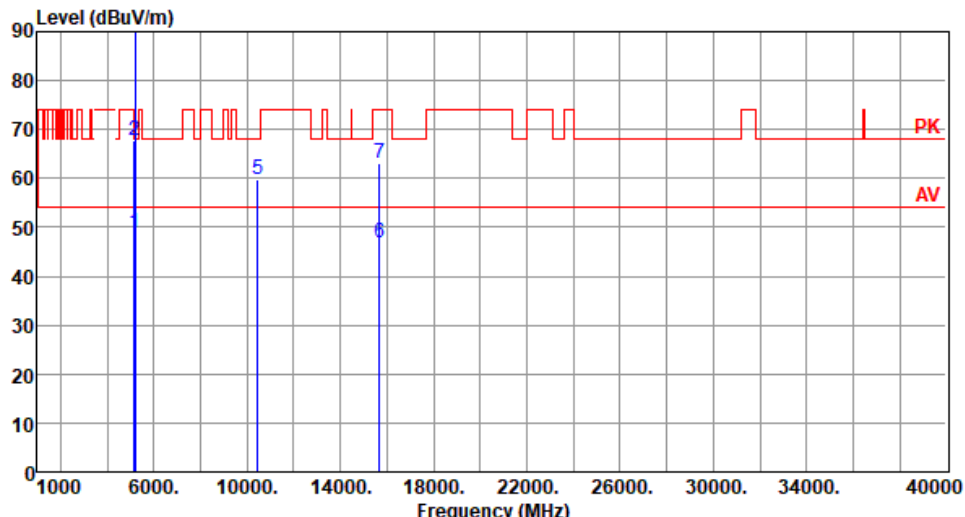
Modulation	ax HE20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Brad Wu Temperature(°C):24 Humidity(%):64																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>60.97</td><td>68.20</td><td>-7.23</td><td>54.75</td><td>6.22</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>2</td><td>* 5825.00</td><td>102.01</td><td></td><td></td><td>95.24</td><td>6.77</td><td>Average</td><td>309</td><td>207</td></tr><tr><td>3</td><td>* 5825.00</td><td>112.92</td><td></td><td></td><td>106.15</td><td>6.77</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>4</td><td>5850.00</td><td>83.19</td><td>122.20</td><td>-39.01</td><td>76.32</td><td>6.87</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>5</td><td>5855.00</td><td>78.14</td><td>110.80</td><td>-32.66</td><td>71.25</td><td>6.89</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>6</td><td>5875.00</td><td>72.75</td><td>105.20</td><td>-32.45</td><td>65.82</td><td>6.93</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>7</td><td>5925.00</td><td>63.98</td><td>68.20</td><td>-4.22</td><td>56.95</td><td>7.03</td><td>Peak</td><td>309</td><td>207</td></tr><tr><td>8</td><td>11650.00</td><td>47.82</td><td>54.00</td><td>-6.18</td><td>32.85</td><td>14.97</td><td>Average</td><td>256</td><td>344</td></tr><tr><td>9</td><td>11650.00</td><td>61.30</td><td>74.00</td><td>-12.70</td><td>46.33</td><td>14.97</td><td>Peak</td><td>256</td><td>344</td></tr><tr><td>10</td><td>17475.00</td><td>62.58</td><td>68.20</td><td>-5.62</td><td>42.82</td><td>19.76</td><td>Peak</td><td>100</td><td>16</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	60.97	68.20	-7.23	54.75	6.22	Peak	309	207	2	* 5825.00	102.01			95.24	6.77	Average	309	207	3	* 5825.00	112.92			106.15	6.77	Peak	309	207	4	5850.00	83.19	122.20	-39.01	76.32	6.87	Peak	309	207	5	5855.00	78.14	110.80	-32.66	71.25	6.89	Peak	309	207	6	5875.00	72.75	105.20	-32.45	65.82	6.93	Peak	309	207	7	5925.00	63.98	68.20	-4.22	56.95	7.03	Peak	309	207	8	11650.00	47.82	54.00	-6.18	32.85	14.97	Average	256	344	9	11650.00	61.30	74.00	-12.70	46.33	14.97	Peak	256	344	10	17475.00	62.58	68.20	-5.62	42.82	19.76	Peak	100	16
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																								
1	5650.00	60.97	68.20	-7.23	54.75	6.22	Peak	309	207																																																																																																								
2	* 5825.00	102.01			95.24	6.77	Average	309	207																																																																																																								
3	* 5825.00	112.92			106.15	6.77	Peak	309	207																																																																																																								
4	5850.00	83.19	122.20	-39.01	76.32	6.87	Peak	309	207																																																																																																								
5	5855.00	78.14	110.80	-32.66	71.25	6.89	Peak	309	207																																																																																																								
6	5875.00	72.75	105.20	-32.45	65.82	6.93	Peak	309	207																																																																																																								
7	5925.00	63.98	68.20	-4.22	56.95	7.03	Peak	309	207																																																																																																								
8	11650.00	47.82	54.00	-6.18	32.85	14.97	Average	256	344																																																																																																								
9	11650.00	61.30	74.00	-12.70	46.33	14.97	Peak	256	344																																																																																																								
10	17475.00	62.58	68.20	-5.62	42.82	19.76	Peak	100	16																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency																																																																																																																	

Modulation	ax HE20	Test Freq. (MHz)	5825
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

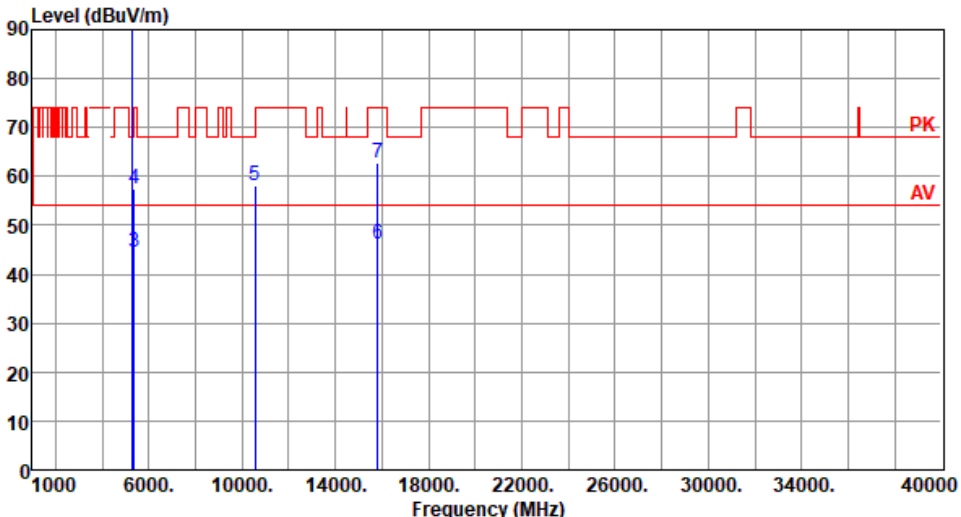
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40		Test Freq. (MHz)		5190	
Polarization	Horizontal					
Test By :Brad Wu Temperature(°C):22 Humidity(%):63						
Level (dBuV/m) </						

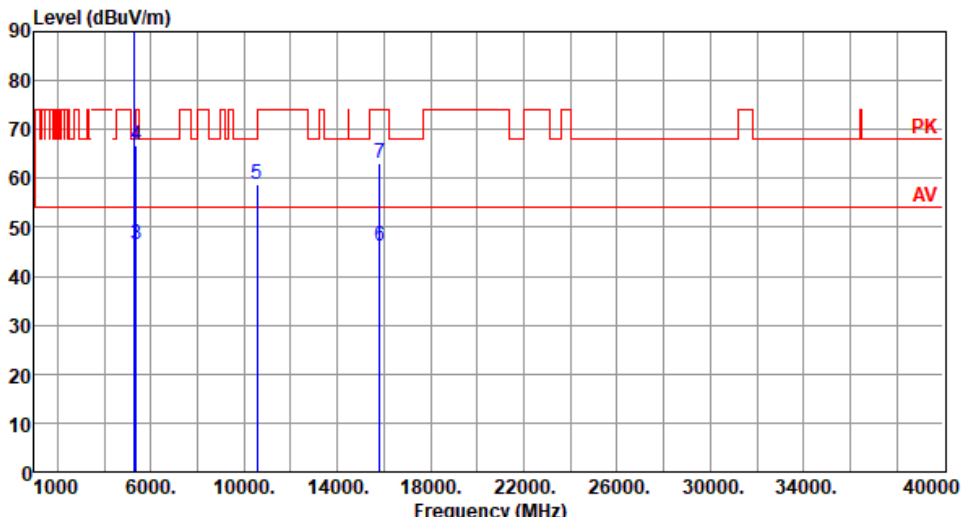
Modulation	ax HE40	Test Freq. (MHz)	5190
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

Modulation	ax HE40	Test Freq. (MHz)	5230																																																																																
Polarization	Horizontal																																																																																		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>48.86</td><td>54.00</td><td>-5.14</td><td>42.55</td><td>6.31</td><td>Average</td><td>332</td><td>28</td></tr><tr><td>2</td><td>5150.00</td><td>67.88</td><td>74.00</td><td>-6.12</td><td>61.57</td><td>6.31</td><td>Peak</td><td>332</td><td>28</td></tr><tr><td>3 *</td><td>5230.00</td><td>101.27</td><td></td><td></td><td>95.39</td><td>5.88</td><td>Average</td><td>332</td><td>28</td></tr><tr><td>4 *</td><td>5230.00</td><td>112.35</td><td></td><td></td><td>106.47</td><td>5.88</td><td>Peak</td><td>332</td><td>28</td></tr><tr><td>5</td><td>10460.00</td><td>59.65</td><td>68.20</td><td>-8.55</td><td>45.04</td><td>14.61</td><td>Peak</td><td>100</td><td>35</td></tr><tr><td>6</td><td>15690.00</td><td>46.68</td><td>54.00</td><td>-7.32</td><td>30.70</td><td>15.98</td><td>Average</td><td>100</td><td>29</td></tr><tr><td>7</td><td>15690.00</td><td>62.95</td><td>74.00</td><td>-11.05</td><td>46.97</td><td>15.98</td><td>Peak</td><td>100</td><td>29</td></tr></tbody></table>					Freq. 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	48.86	54.00	-5.14	42.55	6.31	Average	332	28	2	5150.00	67.88	74.00	-6.12	61.57	6.31	Peak	332	28	3 *	5230.00	101.27			95.39	5.88	Average	332	28	4 *	5230.00	112.35			106.47	5.88	Peak	332	28	5	10460.00	59.65	68.20	-8.55	45.04	14.61	Peak	100	35	6	15690.00	46.68	54.00	-7.32	30.70	15.98	Average	100	29	7	15690.00	62.95	74.00	-11.05	46.97	15.98	Peak	100	29
	Freq. 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	48.86	54.00	-5.14	42.55	6.31	Average	332	28																																																																										
2	5150.00	67.88	74.00	-6.12	61.57	6.31	Peak	332	28																																																																										
3 *	5230.00	101.27			95.39	5.88	Average	332	28																																																																										
4 *	5230.00	112.35			106.47	5.88	Peak	332	28																																																																										
5	10460.00	59.65	68.20	-8.55	45.04	14.61	Peak	100	35																																																																										
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7	15690.00	62.95	74.00	-11.05	46.97	15.98	Peak	100	29																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																			

Modulation	ax HE40	Test Freq. (MHz)	5230
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) <			

Modulation		ax HE40	Test Freq. (MHz)		5270					
Polarization		Horizontal								
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63				
										
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level			reading			High	Table
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	*	5270.00	96.62			90.88	5.74	Average	346	45
2	*	5270.00	107.51			101.77	5.74	Peak	346	45
3		5350.00	44.60	54.00	-9.40	38.88	5.72	Average	346	45
4		5350.00	57.42	74.00	-16.58	51.70	5.72	Peak	346	45
5		10540.00	58.21	68.20	-9.99	43.55	14.66	Peak	100	29
6		15810.00	46.25	54.00	-7.75	30.64	15.61	Average	100	44
7		15810.00	62.84	74.00	-11.16	47.23	15.61	Peak	100	44

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: "*" is Peak / Average value of fundamental frequency

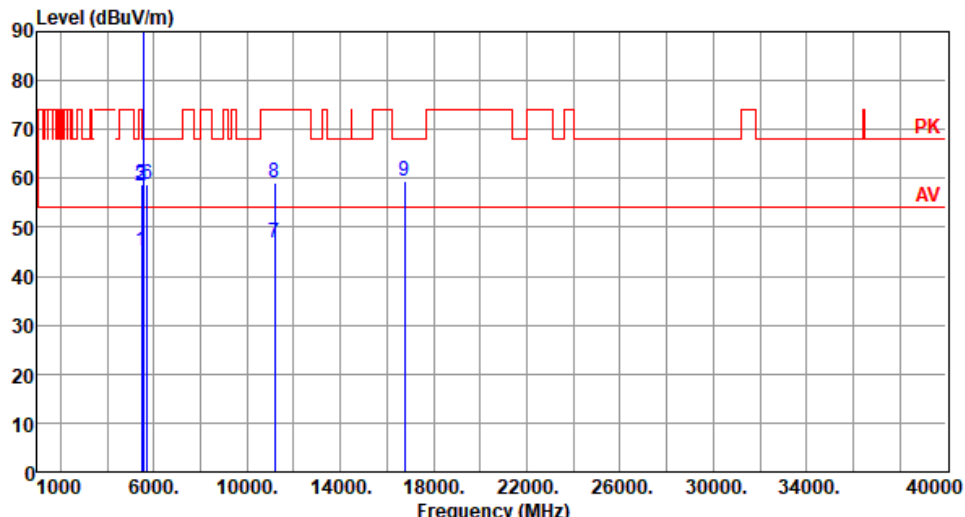
Modulation		ax HE40		Test Freq. (MHz)		5270																																																																																																																		
Polarization		Vertical																																																																																																																						
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																																		
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5270.00</td><td>104.16</td><td></td><td></td><td>98.42</td><td>5.74</td><td>Average</td><td>345</td><td>182</td></tr><tr><td>2</td><td>*</td><td>5270.00</td><td>115.41</td><td></td><td></td><td>109.67</td><td>5.74</td><td>Peak</td><td>345</td><td>182</td></tr><tr><td>3</td><td></td><td>5350.00</td><td>46.38</td><td>54.00</td><td>-7.62</td><td>40.66</td><td>5.72</td><td>Average</td><td>345</td><td>182</td></tr><tr><td>4</td><td></td><td>5350.00</td><td>66.75</td><td>74.00</td><td>-7.25</td><td>61.03</td><td>5.72</td><td>Peak</td><td>345</td><td>182</td></tr><tr><td>5</td><td></td><td>10540.00</td><td>58.69</td><td>68.20</td><td>-9.51</td><td>44.03</td><td>14.66</td><td>Peak</td><td>100</td><td>45</td></tr><tr><td>6</td><td></td><td>15810.00</td><td>46.31</td><td>54.00</td><td>-7.69</td><td>30.70</td><td>15.61</td><td>Average</td><td>100</td><td>59</td></tr><tr><td>7</td><td></td><td>15810.00</td><td>63.12</td><td>74.00</td><td>-10.88</td><td>47.51</td><td>15.61</td><td>Peak</td><td>100</td><td>59</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency													Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level			reading			High	Table				dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg	1	*	5270.00	104.16			98.42	5.74	Average	345	182	2	*	5270.00	115.41			109.67	5.74	Peak	345	182	3		5350.00	46.38	54.00	-7.62	40.66	5.72	Average	345	182	4		5350.00	66.75	74.00	-7.25	61.03	5.72	Peak	345	182	5		10540.00	58.69	68.20	-9.51	44.03	14.66	Peak	100	45	6		15810.00	46.31	54.00	-7.69	30.70	15.61	Average	100	59	7		15810.00	63.12	74.00	-10.88	47.51	15.61	Peak	100	59
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
		MHz	level			reading			High	Table																																																																																																														
			dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg																																																																																																														
1	*	5270.00	104.16			98.42	5.74	Average	345	182																																																																																																														
2	*	5270.00	115.41			109.67	5.74	Peak	345	182																																																																																																														
3		5350.00	46.38	54.00	-7.62	40.66	5.72	Average	345	182																																																																																																														
4		5350.00	66.75	74.00	-7.25	61.03	5.72	Peak	345	182																																																																																																														
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6		15810.00	46.31	54.00	-7.69	30.70	15.61	Average	100	59																																																																																																														
7		15810.00	63.12	74.00	-10.88	47.51	15.61	Peak	100	59																																																																																																														

Modulation		ax HE40		Test Freq. (MHz)		5310				
Polarization		Horizontal								
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63				
Level (dBuV/m)										

Modulation		ax HE40			Test Freq. (MHz)		5310			
Polarization		Vertical								
Test By		:Brad Wu			Temperature(°C):22		Humidity(%):63			
Level (dBuV/m) </										

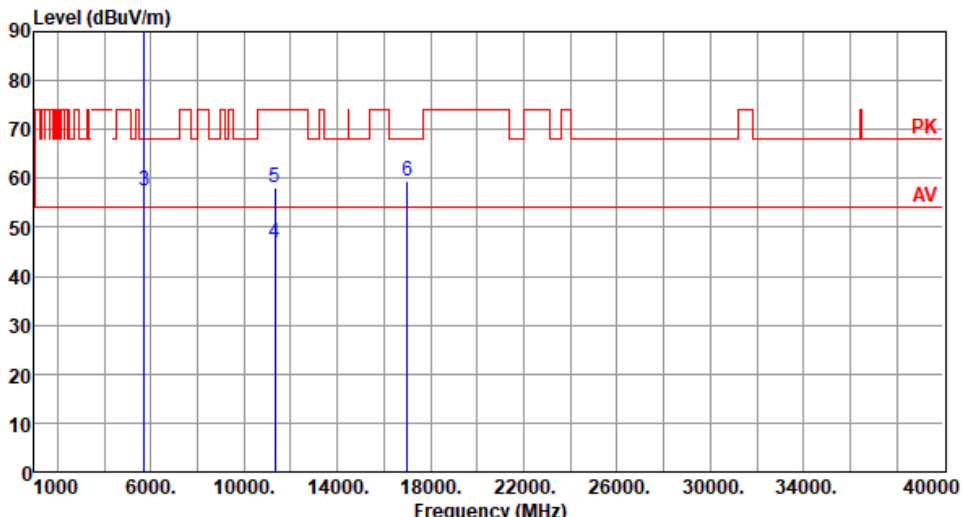
Modulation	ax HE40	Test Freq. (MHz)	5510
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m) </			

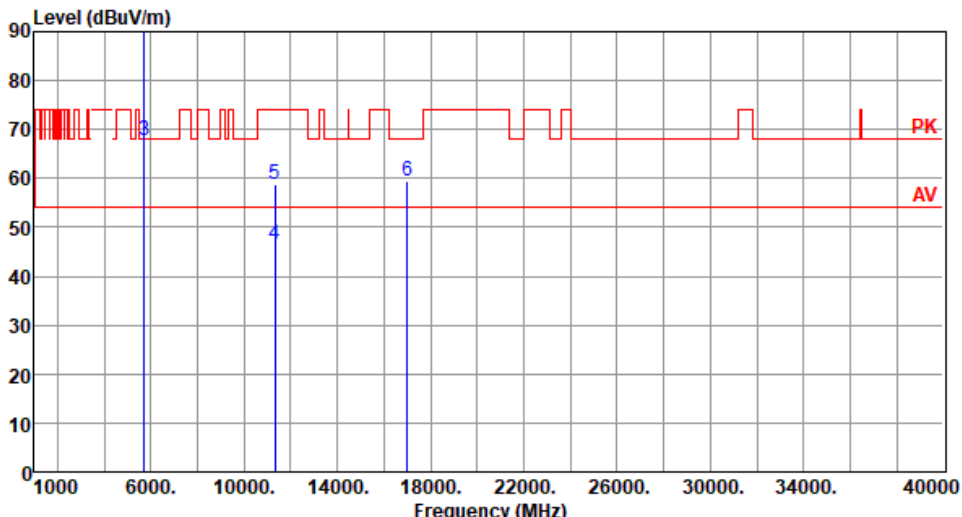
Modulation	ax HE40	Test Freq. (MHz)	5510
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

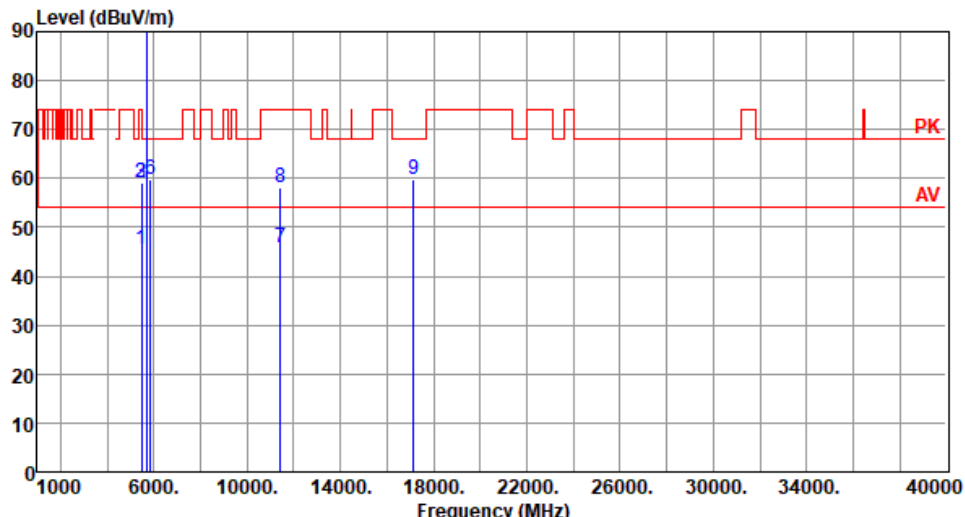
Modulation	ax HE40	Test Freq. (MHz)	5590						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):22 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.19	54.00	-8.81	38.89	6.30	Average	317	50
2	5460.00	58.30	74.00	-15.70	52.00	6.30	Peak	317	50
3	5470.00	58.86	68.20	-9.34	52.54	6.32	Peak	317	50
4 *	5590.00	96.86			90.58	6.28	Average	317	50
5 *	5590.00	108.01			101.73	6.28	Peak	317	50
6	5725.00	58.79	68.20	-9.41	52.30	6.49	Peak	317	50
7	11180.00	46.94	54.00	-7.06	31.94	15.00	Average	100	15
8	11180.00	59.12	74.00	-14.88	44.12	15.00	Peak	100	15
9	16770.00	59.51	68.20	-8.69	41.69	17.82	Peak	100	31

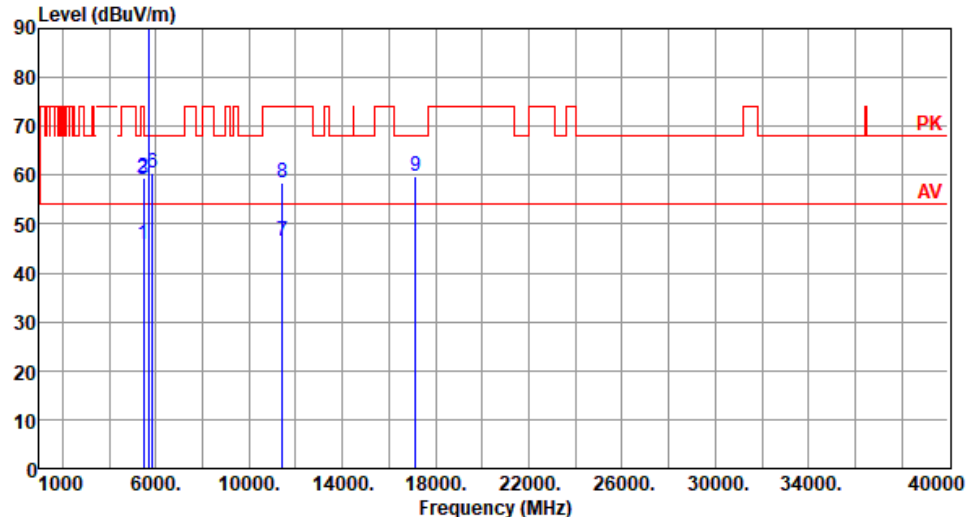
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	ax HE40	Test Freq. (MHz)	5590
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) <			

Modulation		ax HE40		Test Freq. (MHz)		5670																																																																																																							
Polarization		Horizontal																																																																																																											
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																							
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Modulation		ax HE40		Test Freq. (MHz)		5670																																																																																																							
Polarization		Vertical																																																																																																											
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63																																																																																																							
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Modulation	ax HE40	Test Freq. (MHz)	5710																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																																							
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Modulation	ax HE40	Test Freq. (MHz)	5710																																																																																																				
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	ax HE40	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	ax HE40	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (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 :Brad Wu Temperature(°C):22 Humidity(%):63						
Level (dBuV/m)						

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

*Factor includes antenna factor , cable loss and amplifier gain

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

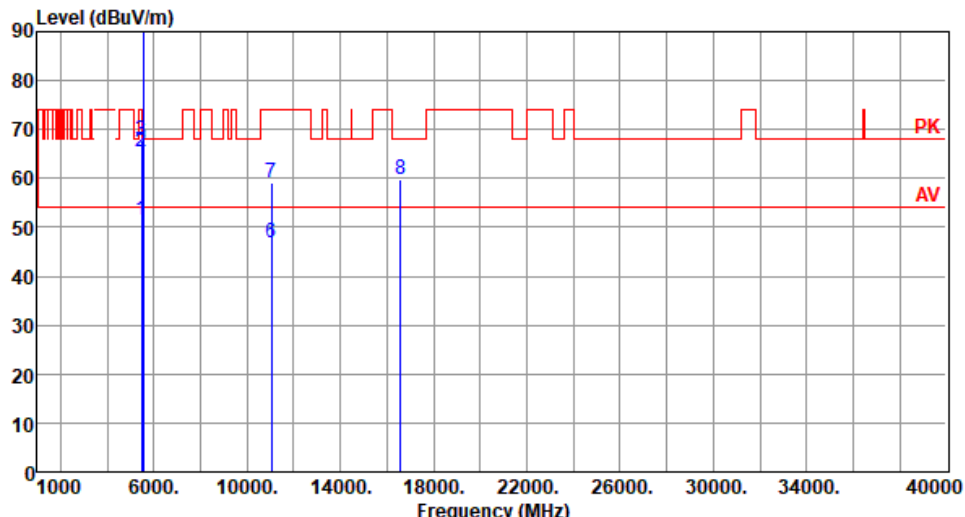
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

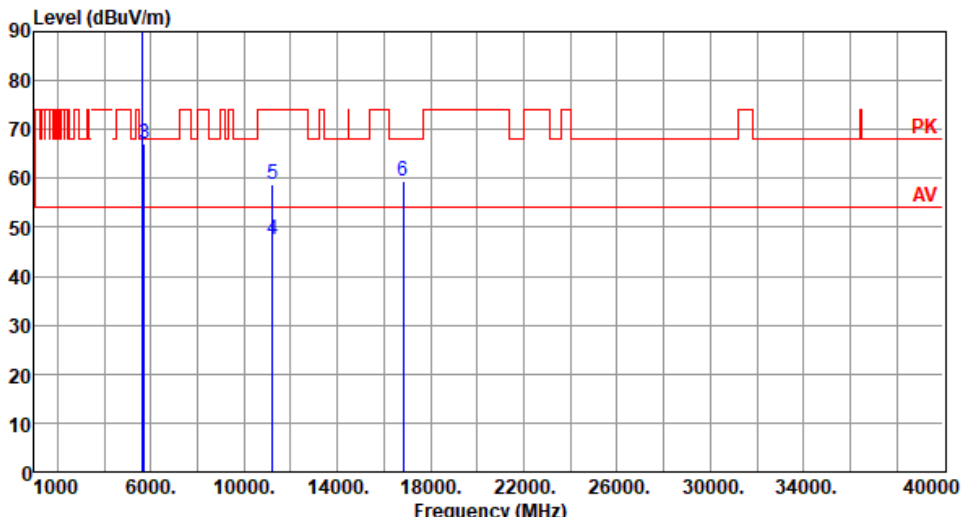
Modulation		ax HE80		Test Freq. (MHz)		5290				
Polarization		Horizontal								
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63				
Level (dBuV/m)										

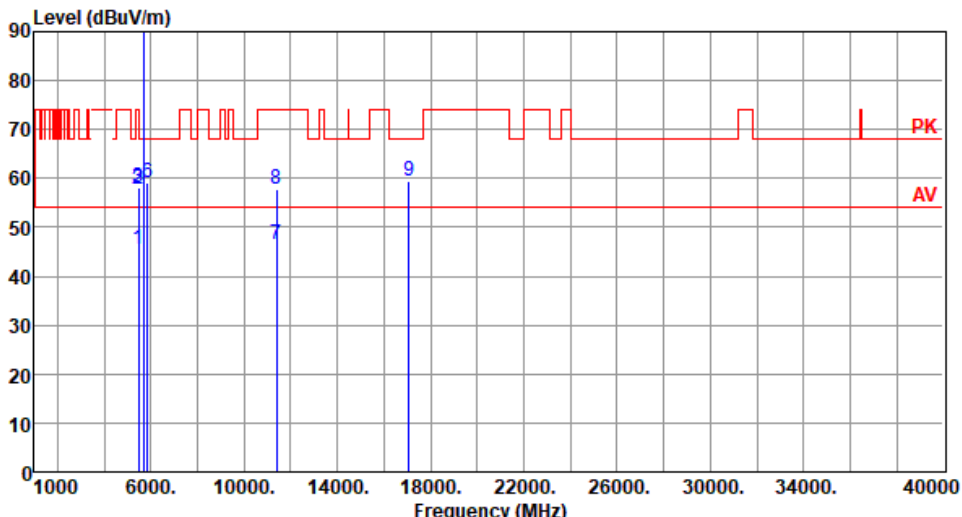
Modulation		ax HE80		Test Freq. (MHz)		5290				
Polarization		Vertical								
Test By		:Brad Wu		Temperature(°C):22		Humidity(%):63				
Level (dBuV/m) </										

Modulation	ax HE80	Test Freq. (MHz)	5530
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) <			

Modulation	ax HE80	Test Freq. (MHz)	5530																																																																																										
Polarization	Vertical																																																																																												
Test By :Brad Wu Temperature(°C):22 Humidity(%):63																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>51.46</td><td>54.00</td><td>-2.54</td><td>45.16</td><td>6.30</td><td>Average</td><td>283</td><td>282</td></tr><tr><td>2</td><td>5460.00</td><td>65.58</td><td>74.00</td><td>-8.42</td><td>59.28</td><td>6.30</td><td>Peak</td><td>283</td><td>282</td></tr><tr><td>3</td><td>5470.00</td><td>67.72</td><td>68.20</td><td>-0.48</td><td>61.40</td><td>6.32</td><td>Peak</td><td>283</td><td>282</td></tr><tr><td>4 *</td><td>5530.00</td><td>100.35</td><td></td><td></td><td>94.07</td><td>6.28</td><td>Average</td><td>321</td><td>308</td></tr><tr><td>5 *</td><td>5530.00</td><td>112.12</td><td></td><td></td><td>105.84</td><td>6.28</td><td>Peak</td><td>321</td><td>308</td></tr><tr><td>6</td><td>11060.00</td><td>46.69</td><td>54.00</td><td>-7.31</td><td>31.35</td><td>15.34</td><td>Average</td><td>100</td><td>78</td></tr><tr><td>7</td><td>11060.00</td><td>59.21</td><td>74.00</td><td>-14.79</td><td>43.87</td><td>15.34</td><td>Peak</td><td>100</td><td>78</td></tr><tr><td>8</td><td>16590.00</td><td>59.84</td><td>68.20</td><td>-8.36</td><td>42.79</td><td>17.05</td><td>Peak</td><td>100</td><td>21</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency					Freq. 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	51.46	54.00	-2.54	45.16	6.30	Average	283	282	2	5460.00	65.58	74.00	-8.42	59.28	6.30	Peak	283	282	3	5470.00	67.72	68.20	-0.48	61.40	6.32	Peak	283	282	4 *	5530.00	100.35			94.07	6.28	Average	321	308	5 *	5530.00	112.12			105.84	6.28	Peak	321	308	6	11060.00	46.69	54.00	-7.31	31.35	15.34	Average	100	78	7	11060.00	59.21	74.00	-14.79	43.87	15.34	Peak	100	78	8	16590.00	59.84	68.20	-8.36	42.79	17.05	Peak	100	21
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	ax HE80	Test Freq. (MHz)	5610
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

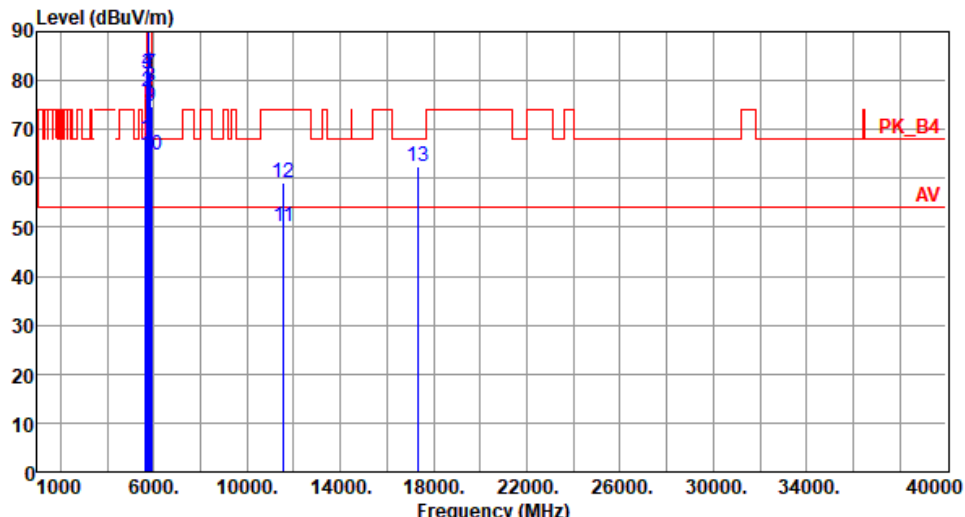
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Modulation	ax HE80	Test Freq. (MHz)	5690						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):22 Humidity(%):63									
Level (dBUV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.39	54.00	-8.61	39.09	6.30	Average	322	345
2	5460.00	57.92	74.00	-16.08	51.62	6.30	Peak	322	345
3	5470.00	58.14	68.20	-10.06	51.82	6.32	Peak	322	345
4 *	5690.00	94.96			88.57	6.39	Average	322	345
5 *	5690.00	107.12			100.73	6.39	Peak	322	345
6	5850.00	59.12	68.20	-9.08	52.25	6.87	Peak	322	345
7	11380.00	46.54	54.00	-7.46	31.32	15.22	Average	100	48
8	11380.00	57.92	74.00	-16.08	42.70	15.22	Peak	100	48
9	17070.00	59.48	68.20	-8.72	41.53	17.95	Peak	100	26

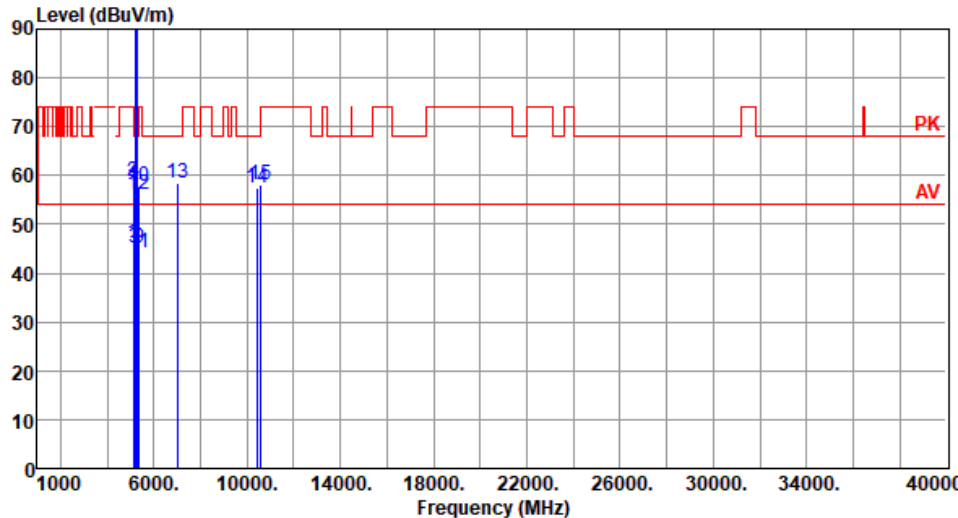
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency

Modulation	ax HE80	Test Freq. (MHz)	5690
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			

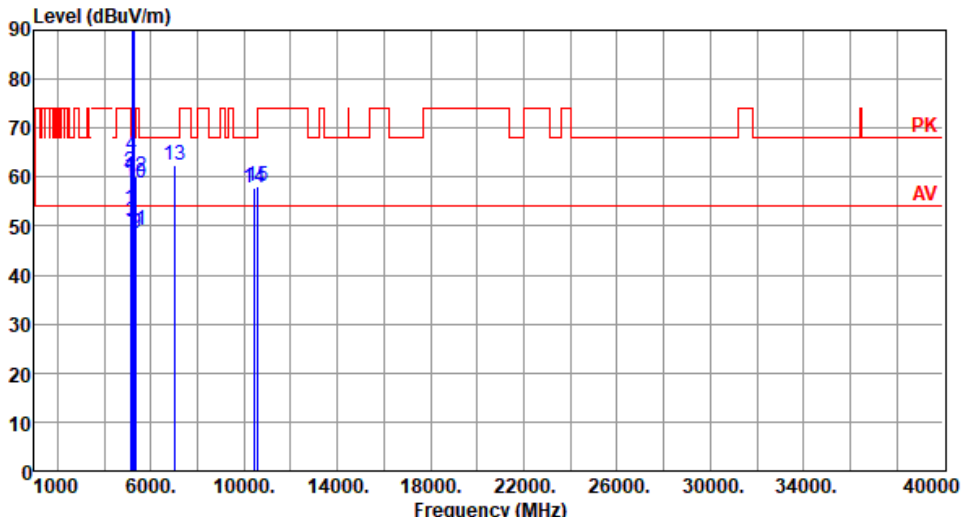
Modulation	ax HE80	Test Freq. (MHz)	5775
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			

Modulation	ax HE80	Test Freq. (MHz)	5775																																																																																																																																													
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																																							
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Note 1: Emission Level (dBUV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency																																																																																																																																																

3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax HE80 + 80

Modulation	ax HE80 + 80	Test Freq. (MHz)	5210 + 5290						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):22 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5130.00	46.30	54.00	-7.70	40.00	6.30	Average	264	336
2	5130.00	58.84	74.00	-15.16	52.54	6.30	Peak	264	336
3	5150.00	45.32	54.00	-8.68	39.01	6.31	Average	264	336
4	5150.00	58.66	74.00	-15.34	52.35	6.31	Peak	264	336
5 *	5210.00	89.24			83.25	5.99	Average	264	336
6 *	5210.00	101.87			95.88	5.99	Peak	264	336
7 *	5290.00	88.58			82.87	5.71	Average	316	19
8 *	5290.00	100.77			95.06	5.71	Peak	316	19
9	5350.00	45.02	54.00	-8.98	39.30	5.72	Average	316	19
10	5350.00	57.65	74.00	-16.35	51.93	5.72	Peak	316	19
11	5370.00	44.18	54.00	-9.82	38.33	5.85	Average	316	19
12	5370.00	56.24	74.00	-17.76	50.39	5.85	Peak	316	19
13	7053.30	58.45	68.20	-9.75	48.38	10.07	Peak	348	68
14	10420.00	57.45	68.20	-10.75	42.80	14.65	Peak	100	51
15	10580.00	58.14	68.20	-10.06	43.37	14.77	Peak	100	29

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	ax HE80 + 80	Test Freq. (MHz)	5210 + 5290						
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):22 Humidity(%):63									
Level (dBuV/m) 									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5130.00	53.56	54.00	-0.44	47.26	6.30	Average	342	60
2	5130.00	61.13	74.00	-12.87	54.83	6.30	Peak	342	60
3	5150.00	50.77	54.00	-3.23	44.46	6.31	Average	325	14
4	5150.00	64.42	74.00	-9.58	58.11	6.31	Peak	325	14
5 *	5210.00	95.61			89.62	5.99	Average	342	14
6 *	5210.00	108.27			102.28	5.99	Peak	342	14
7 *	5290.00	94.84			89.13	5.71	Average	286	93
8 *	5290.00	107.66			101.95	5.71	Peak	286	93
9	5350.00	48.36	54.00	-5.64	42.64	5.72	Average	286	93
10	5350.00	58.86	74.00	-15.14	53.14	5.72	Peak	286	93
11	5370.00	49.14	54.00	-4.86	43.29	5.85	Average	298	53
12	5370.00	60.21	74.00	-13.79	54.36	5.85	Peak	298	53
13	7053.30	62.40	68.20	-5.80	52.33	10.07	Peak	287	297
14	10420.00	57.81	68.20	-10.39	43.16	14.65	Peak	100	332
15	10580.00	58.26	68.20	-9.94	43.49	14.77	Peak	100	326

Note 1: Emission Level (dBuV/m) = SA Reading (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: "*" is Peak / Average value of fundamental frequency

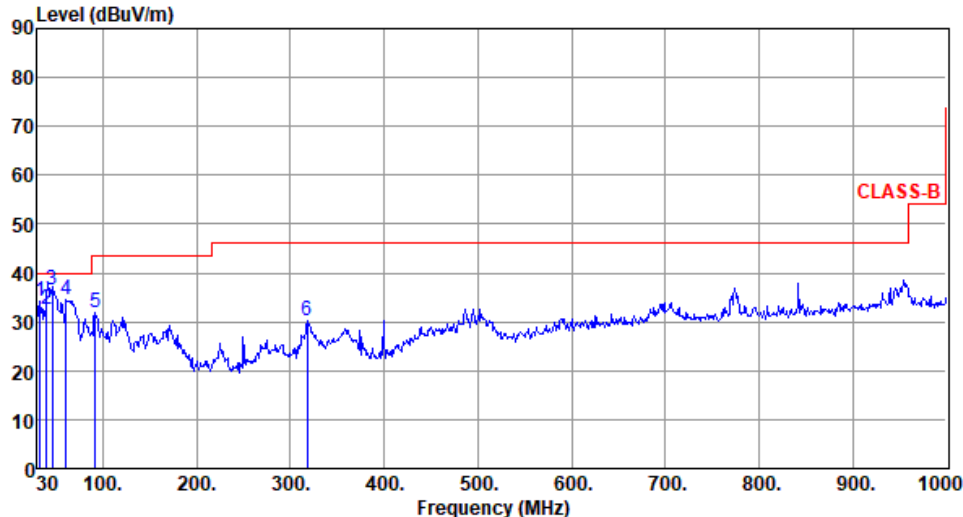
Modulation	ax HE80 + 80	Test Freq. (MHz)	5530 + 5610
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

Modulation	ax HE80 + 80		Test Freq. (MHz)		5530 + 5610	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):22 Humidity(%):63						
Level (dBUV/m) </						

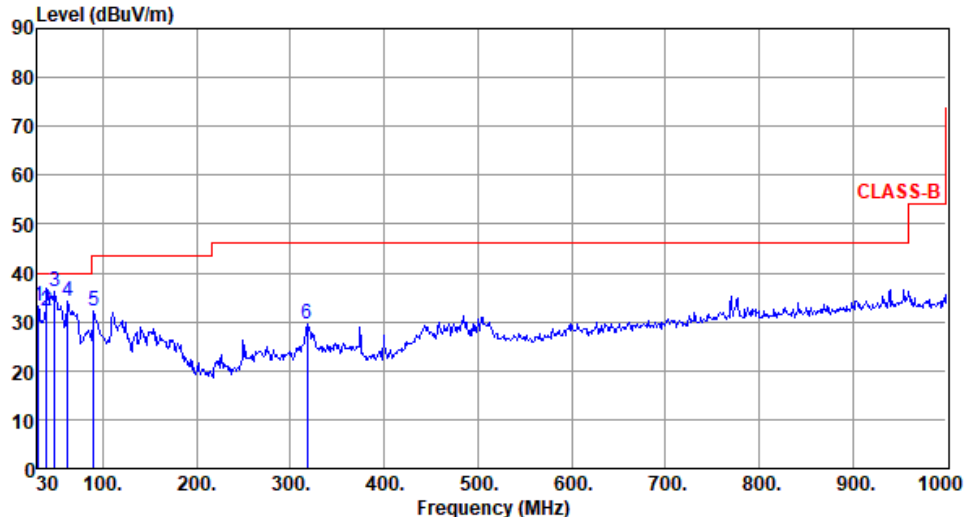
Configuration 2: POE mode

3.5.10 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5200																																																																						
Polarization	Horizontal																																																																								
Test By :Brad Wu Temperature(°C):24 Humidity(%):68																																																																									
Level (dBUV/m) CLASS-B <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>69.81</td><td>27.75</td><td>40.00</td><td>-12.25</td><td>38.73</td><td>-10.98</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>91.14</td><td>32.51</td><td>43.50</td><td>-10.99</td><td>47.30</td><td>-14.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>110.48</td><td>31.16</td><td>43.50</td><td>-12.34</td><td>43.01</td><td>-11.85</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.35</td><td>32.42</td><td>46.00</td><td>-13.58</td><td>42.22</td><td>-9.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>317.26</td><td>31.85</td><td>46.00</td><td>-14.15</td><td>39.45</td><td>-7.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>360.84</td><td>30.96</td><td>46.00</td><td>-15.04</td><td>37.59</td><td>-6.63</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (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.					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	69.81	27.75	40.00	-12.25	38.73	-10.98	Peak	---	---	2	91.14	32.51	43.50	-10.99	47.30	-14.79	Peak	---	---	3	110.48	31.16	43.50	-12.34	43.01	-11.85	Peak	---	---	4	249.35	32.42	46.00	-13.58	42.22	-9.80	Peak	---	---	5	317.26	31.85	46.00	-14.15	39.45	-7.60	Peak	---	---	6	360.84	30.96	46.00	-15.04	37.59	-6.63	Peak	---	---
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Modulation	ax HE20	Test Freq. (MHz)	5785																																																																						
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Modulation	ax HE20	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):68			
Level (dBuV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBuV/m dBuV/m dB dBuV dB/m High Table cm deg 130.9533.2740.00-6.7343.93-10.66Peak------ 239.7532.1940.00-7.8141.38-9.19QP10028 348.4336.2540.00-3.7545.17-8.92Peak------ 462.0134.1740.00-5.8344.03-9.86Peak------ 590.1432.2843.50-11.2247.00-14.72Peak------ 6318.2129.6446.00-16.3637.23-7.59Peak------			
Note 1: Emission Level (dBuV/m) = SA Reading (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.			

3.6 Frequency Stability

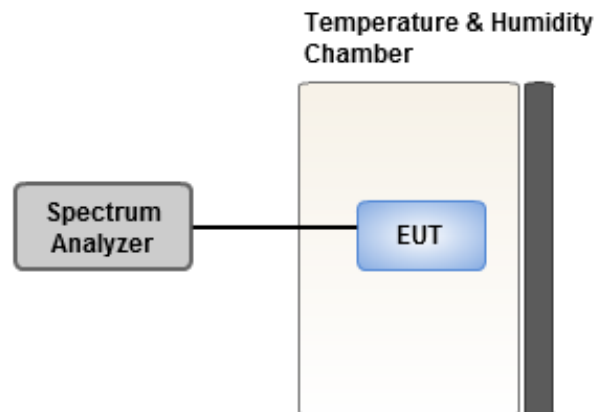
3.6.1 Limit of Frequency Stability

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°C / 63%	Tested By	Aska Huang
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Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	4.04	4.33	3.93	4.21
T20°C Vmin	5.13	5.41	5.78	5.04
T50°C Vnom	5.51	5.33	5.87	6.04
T40°C Vnom	6.22	6.54	6.32	6.48
T30°C Vnom	5.54	5.83	5.59	5.91
T20°C Vnom	3.96	4.23	3.75	4.18
T10°C Vnom	3.96	3.51	4.58	4.66
T0°C Vnom	4.38	4.62	4.42	4.79
T-10°C Vnom	3.70	4.19	4.01	4.51
T-20°C Vnom	3.34	3.35	3.91	3.82
T-30°C Vnom	2.92	2.84	2.69	2.65
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 (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	4.06	3.79	3.96	4.14
T20°C Vmin	5.27	5.30	5.57	5.78
T50°C Vnom	5.80	6.12	6.10	5.97
T40°C Vnom	6.21	6.34	6.70	6.70
T30°C Vnom	5.30	5.84	5.52	5.50
T20°C Vnom	3.93	3.83	4.52	4.46
T10°C Vnom	3.47	4.09	3.48	3.60
T0°C Vnom	3.87	4.50	3.60	4.24
T-10°C Vnom	3.53	4.08	3.26	3.59
T-20°C Vnom	3.08	3.40	3.26	2.84
T-30°C Vnom	2.49	2.57	2.50	2.49
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

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
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Kwei Shan

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

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 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

==END==