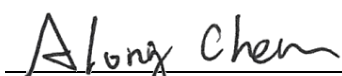


FCC Test Report

FCC ID : I88WX3310-B0
Equipment : Dual-Band Wireless AX Gigabit Access Point /
Extender
Model No. : WX3310-B0
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 : Feb. 03, 2020
Tested Date : Mar. 06 ~ May 18, 2020

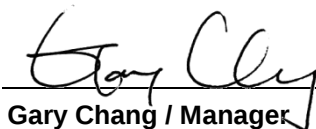
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval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

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR020306AN	Rev. 01	Initial issue	Jun. 02, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.830MHz 29.90 (Margin -16.10dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5150.00MHz 53.69 (Margin -0.31dB) – AV [dBuV/m at 3m]: 5350.00MHz 53.69 (Margin -0.31dB) - 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	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 29.08 5250~5350MHz: 23.09 5470~5725MHz: 22.54 5725~5850MHz: 29.26 Beamforming mode 5150~5250MHz: 28.73 5250~5350MHz: 22.74 5470~5725MHz: 22.09 5725~5850MHz: 27.71	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

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

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	ax (HE160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
Note 1: Chip feature: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024 QAM modulation. Note 2: Operating modes of this device are listed as above table. Note 3: 802.11ax supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
				5150~5250	5250~5350	5470~5725	5725~5850
1	Ant1(RFPCA242309IMLB901)	PIFA	ipex	0.5	1	1.5	1.75
2	Ant2 (RFPCA242311IMLB901)	PIFA	ipex	0.5	1	1.5	1.75
3	Ant3 (RFPCA221116IM5B901)	Dipole	ipex	0.5	1	1.5	1.75
4	Ant4 (RFPCA232007IMLB901)	Dipole	ipex	0.5	1	1.5	1.75

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
-------------------	-----------------------

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: MNC Model: MAUS-1201501801 I/P: 100-240Vac, 50/60Hz, 0.5A O/P: 12Vdc, 1.5A Power Line: DC 1.5m non-shielded without core
2	RJ45 cable	1.5m non-shielded without core

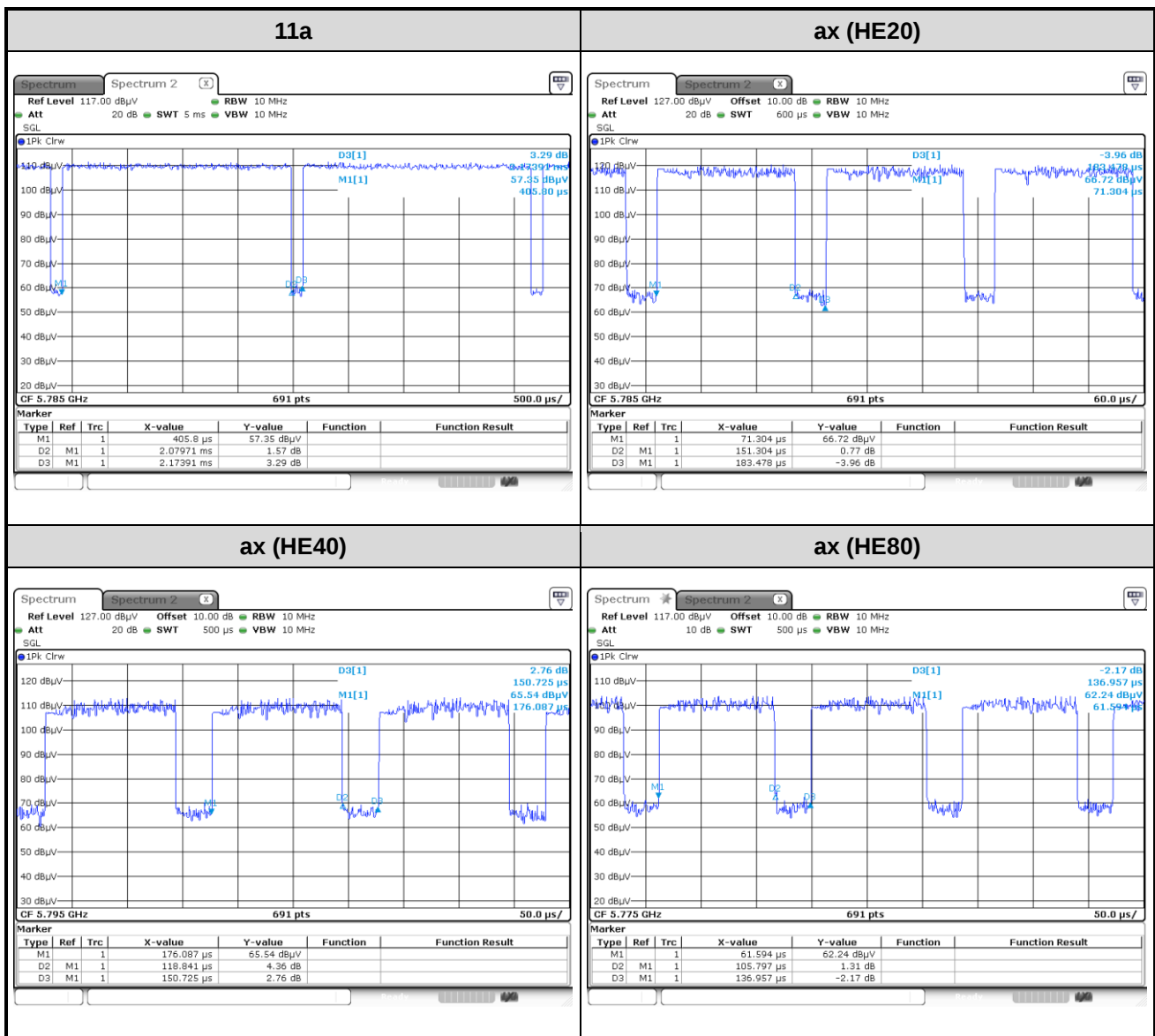
1.1.5 Channel List

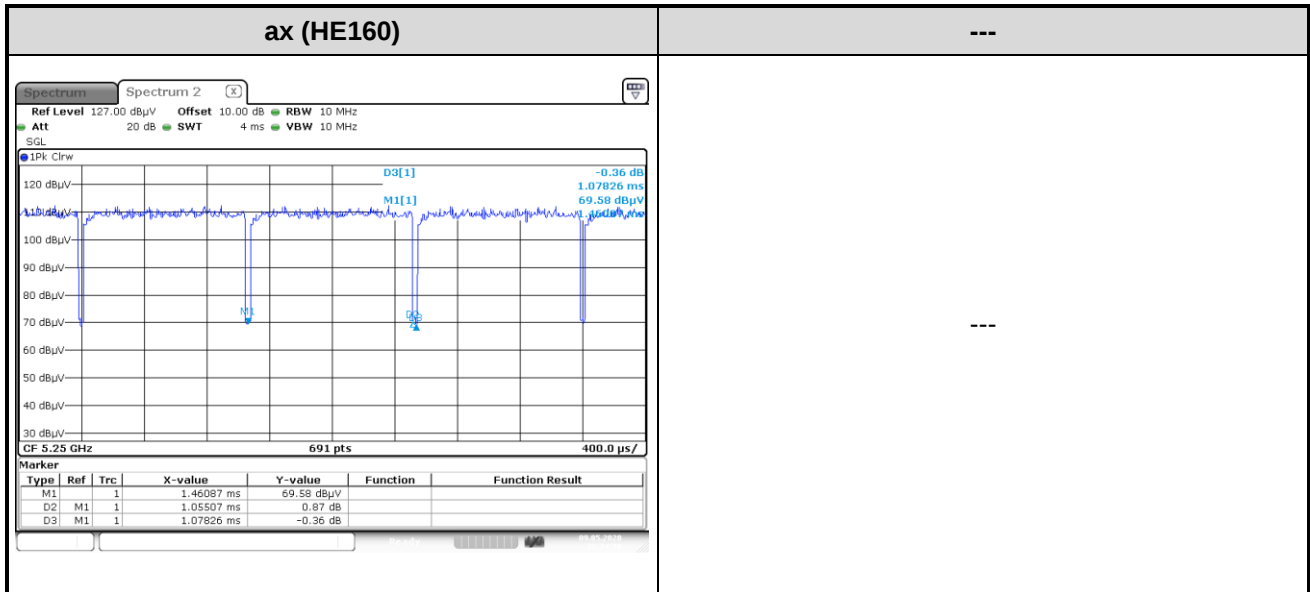
802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	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	ax HE160	
153	5765	50	5250
157	5785	114	5570
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Non-beamforming mode

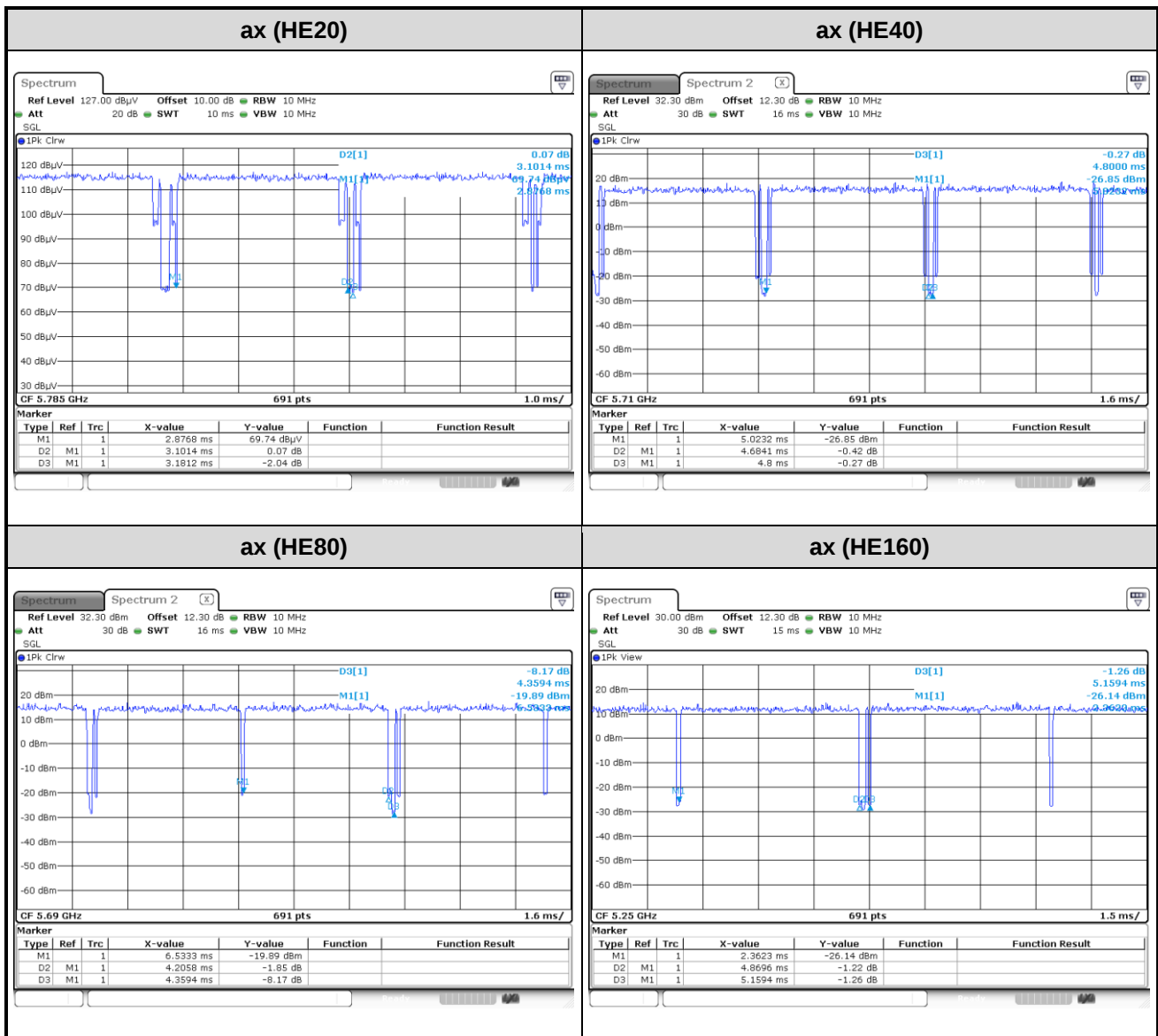
Test Tool	Mtool, Version: 3.1.0.4		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	95.67%	0.19
	ax (HE20)	82.46%	0.84
	ax (HE40)	78.85%	1.03
	ax (HE80)	77.25%	1.12
	ax (HE160)	97.85%	0.09





Beamforming mode

Test Tool	LanTest20, Version: 2.0.0.2		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax (HE20)	97.49%	0.11
	ax (HE40)	97.59%	0.11
	ax (HE80)	96.48%	0.16
	ax (HE160)	94.38%	0.25



1.1.7 Power Index of Test Tool

For Frequency band 5150-5250 MHz			
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5180	82	---
11a	5200	94	---
11a	5240	94	---
ax (HE20)	5180	78	78
ax (HE20)	5200	94	94
ax (HE20)	5240	94	94
ax (HE40)	5190	66	66
ax (HE40)	5230	88	86
ax (HE80)	5210	58	58
ax (HE160)	5250	64	62

For Frequency band 5250~5350 MHz			
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5260	72	---
11a	5300	72	---
11a	5320	70	---
ax (HE20)	5260	68	68
ax (HE20)	5300	68	68
ax (HE20)	5320	68	68
ax (HE40)	5270	68	68
ax (HE40)	5310	68	68
ax (HE80)	5290	64	64

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5500	68	---
11a	5580	68	---
11a	5700	68	---
ax (HE20)	5500	64	64
ax (HE20)	5580	64	64
ax (HE20)	5700	64	64
ax (HE40)	5510	64	64
ax (HE40)	5590	64	64
ax (HE40)	5670	62	62
ax (HE80)	5530	64	66
ax (HE80)	5610	66	66
ax (HE160)	5570	66	48

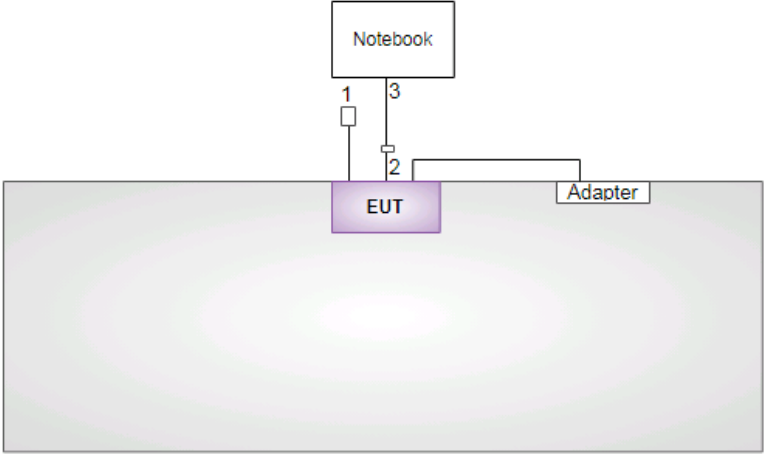
Channel that extends across the 5.725 GHz boundary

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5720MHz	68	---
ax (HE20)	5720MHz	60	60
ax (HE40)	5710MHz	62	62
ax (HE80)	5690MHz	66	66

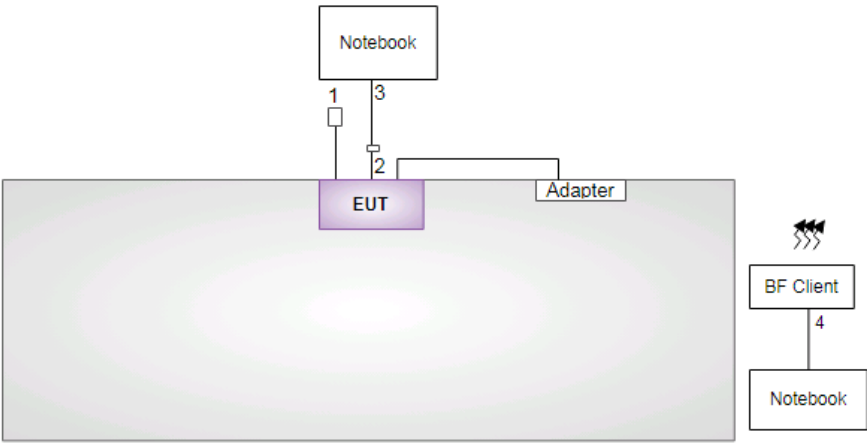
For Frequency band 5725~5850 MHz			
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5745	96	---
11a	5785	96	---
11a	5825	96	---
ax (HE20)	5745	88	88
ax (HE20)	5785	88	88
ax (HE20)	5825	88	88
ax (HE40)	5755	88	88
ax (HE40)	5795	88	88
ax (HE80)	5775	86	86

1.2 Local Support Equipment List

Non-beamforming mode

Test Setup Diagram	
	
No.	Signal cable / Length (m)
1	RJ45, 1.3m non-shielded with load
2	RJ45, 1.5m non-shielded
3	RJ45, 10m non-shielded

Beamforming mode

Test Setup Diagram	
	
No.	Signal cable / Length (m)
1	RJ45, 1.3m non-shielded with load
2	RJ45, 1.5m non-shielded
3	RJ45, 10m non-shielded
4	RJ45, 1.3m non-shielded.

1.3 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 06, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Apr. 27 ~ May 09, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	May 18, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 12, 2019	Dec. 11, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.4 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	21°C / 59%	Alex Tsai
Radiated Emissions	03CH01-WS	23-24°C / 65%	Akun Chung Roger Lu
RF Conducted	TH01-WS	24°C / 68%	Aska Huang

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

2.2 The Worst Test Modes and Channel Details

Non-Beamforming and Beamforming mode had been covered during the pretest of radiated emission. The worst mode is Non-beamforming thus Non-beamforming was tested in radiated emission test item and record in this test report.

Non-beamforming mode

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	---
Radiated Emissions ≤1GHz	11a	5200	6 Mbps	---
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	ax (HE20)	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax (HE40)	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	ax (HE80)	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax (HE160)	5250	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	ax (HE20)	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax (HE40)	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	ax (HE80)	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax (HE160)	5250	MCS 0	
Frequency Stability	Un-modulation	5200	---	---

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5745	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5745	6 Mbps	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	ax (HE20)	5745 / 5785 / 5825	MCS 0	
	ax (HE40)	5755 / 5795	MCS 0	
	ax (HE80)	5775	MCS 0	
	ax (HE160)	5700	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	ax (HE20)	5745 / 5785 / 5825	MCS 0	
	ax (HE40)	5755 / 5795	MCS 0	
	ax (HE80)	5775	MCS 0	
	ax (HE160)	5700	MCS 0	
Frequency Stability	Un-modulation	5785	---	---

Beamforming mode

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
RF Output Power	ax (HE20)	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	ax (HE40)	5190 / 5230 / 5270 / 5310 / 5510 / 5590 / 5670 / 5710	MCS 0	
	ax (HE80)	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax (HE160)	5250	MCS 0	
Peak Power Spectral Density	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 (HE160)	5250	MCS 0	

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
RF Output Power	ax (HE20)	5745 / 5785 / 5825	MCS 0	---
	ax (HE40)	5755 / 5795	MCS 0	
	ax (HE80)	5775	MCS 0	
	ax (HE160)	5700	MCS 0	
Peak Power Spectral Density	ax (HE20)	5745 / 5785 / 5825	MCS 0	---
	ax (HE40)	5755 / 5795	MCS 0	
	ax (HE80)	5775	MCS 0	
	ax (HE160)	5700	MCS 0	

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

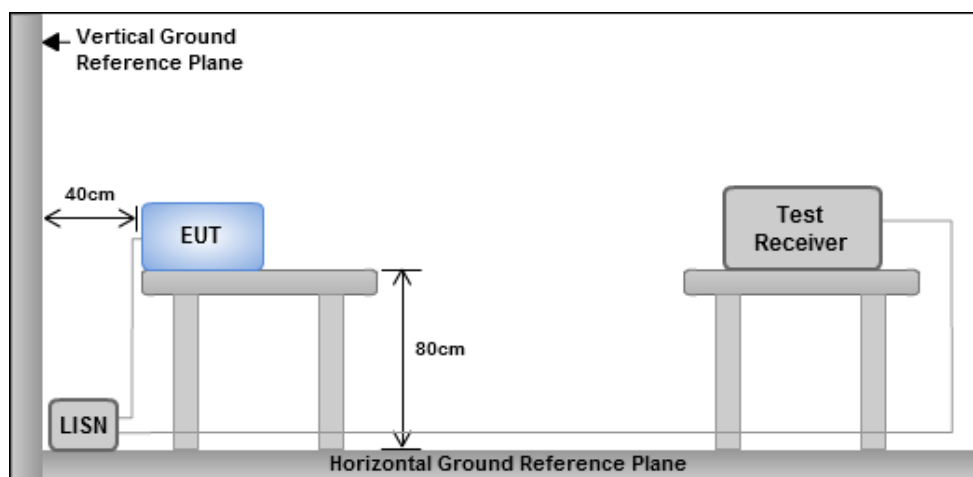
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

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

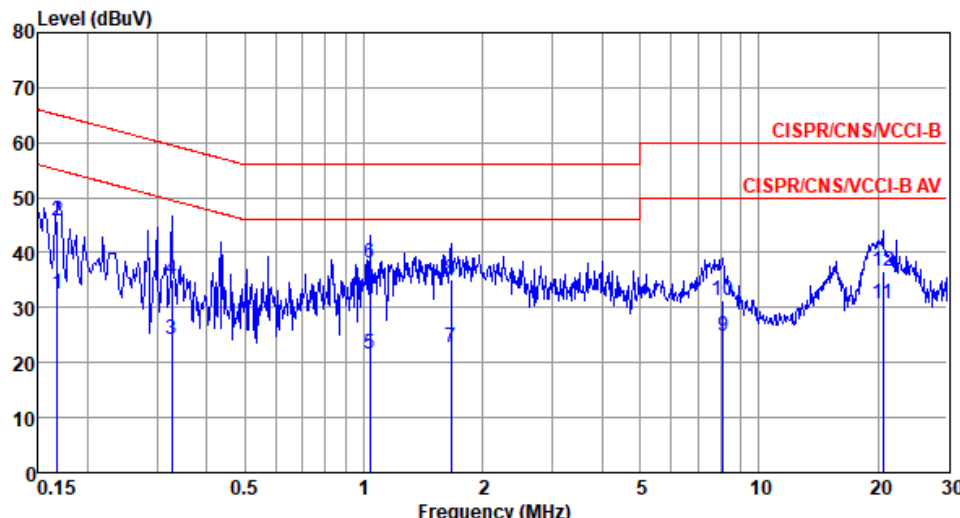
3.1.3 Test Setup



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

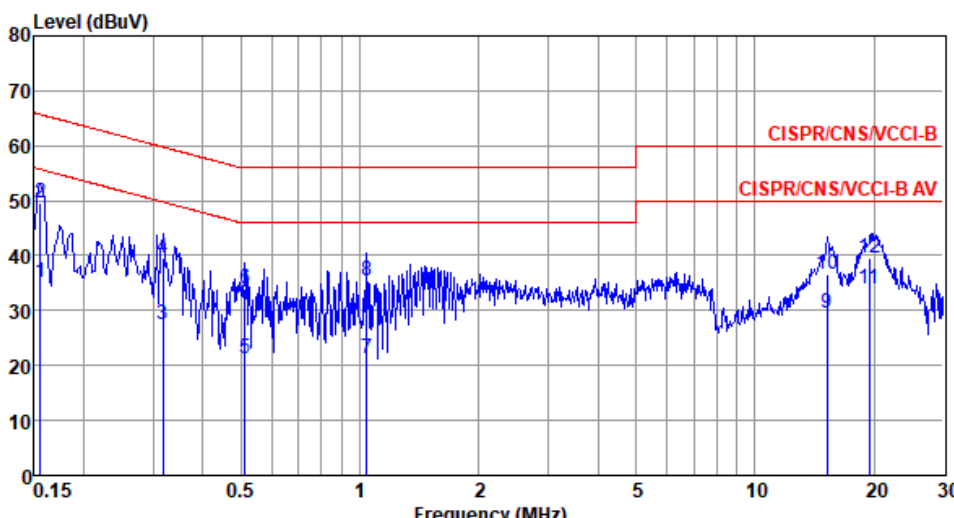
3.1.4 Test Result of Conducted Emissions

Modulation	11a	Test Freq. (MHz)	5200																																																																																																																																							
Power Phase	Line																																																																																																																																									
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Modulation	11a	Test Freq. (MHz)	5745
Power Phase	Line		

Level (dBUV)



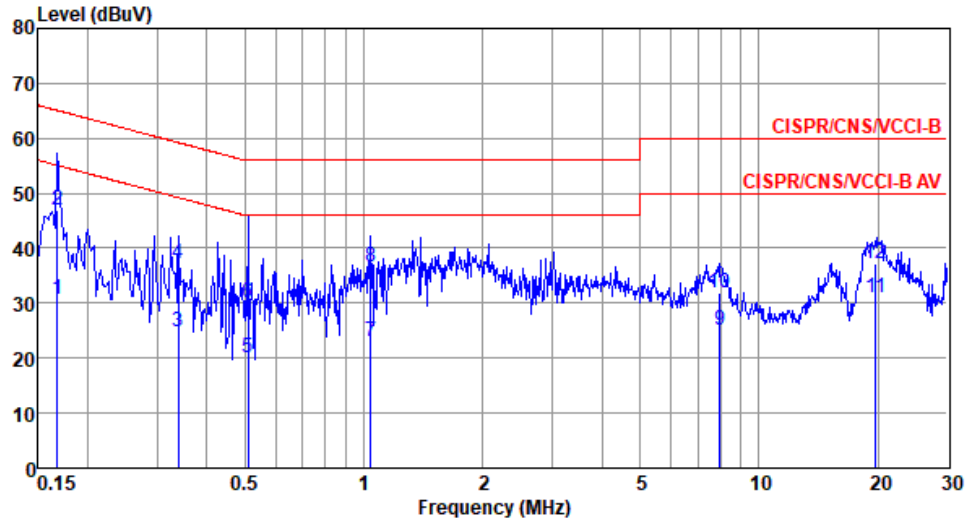
Frequency (MHz)

	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.155	35.22	55.70	-20.48	25.40	9.61	0.05	Average
2	0.155	49.50	65.70	-16.20	39.68	9.61	0.05	QP
3	0.317	27.48	49.77	-22.29	17.58	9.60	0.07	Average
4	0.317	39.62	59.77	-20.15	29.72	9.60	0.07	QP
5	0.512	21.29	46.00	-24.71	11.33	9.60	0.09	Average
6	0.512	33.88	56.00	-22.12	23.92	9.60	0.09	QP
7	1.042	21.33	46.00	-24.67	11.28	9.61	0.12	Average
8	1.042	35.44	56.00	-20.56	25.39	9.61	0.12	QP
9	15.220	29.47	50.00	-20.53	18.65	9.73	0.60	Average
10	15.220	36.74	60.00	-23.26	25.92	9.73	0.60	QP
11	19.477	33.87	50.00	-16.13	22.89	9.73	0.65	Average
12	19.477	39.66	60.00	-20.34	28.68	9.73	0.65	QP

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

Note 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

Modulation	11a	Test Freq. (MHz)	5745
Power Phase	Neutral		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	
1	0.168	30.66	55.08	-24.42	20.90	9.58	0.05	Average
2	0.168	46.84	65.08	-18.24	37.08	9.58	0.05	QP
3	0.338	24.74	49.24	-24.50	14.92	9.57	0.08	Average
4	0.338	37.14	59.24	-22.10	27.32	9.57	0.08	QP
5	0.510	20.02	46.00	-25.98	10.18	9.57	0.09	Average
6	0.510	30.22	56.00	-25.78	20.38	9.57	0.09	QP
7	1.040	23.11	46.00	-22.89	13.21	9.58	0.12	Average
8	1.040	36.52	56.00	-19.48	26.62	9.58	0.12	QP
9	7.955	25.02	50.00	-24.98	14.65	9.70	0.36	Average
10	7.955	31.84	60.00	-28.16	21.47	9.70	0.36	QP
11	19.740	31.02	50.00	-18.98	20.02	9.83	0.66	Average
12	19.740	37.22	60.00	-22.78	26.22	9.83	0.66	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

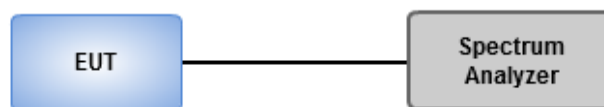
Occupied Bandwidth

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	38.623M	17.077M	17M1D1D	21.232M	16.715M
802.11ax HEW20_Nss1,(MCS0)_4TX	30.58M	19.175M	19M2D1D	22.464M	18.886M
802.11ax HEW40_Nss1,(MCS0)_4TX	76.957M	37.771M	37M8D1D	39.71M	37.627M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.029M	76.99M	77M0D1D	81.449M	76.7M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.522M	16.787M	16M8D1D	21.087M	16.57M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.609M	19.03M	19M0D1D	21.522M	18.886M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.29M	37.627M	37M6D1D	39.71M	37.482M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.029M	76.99M	77M0D1D	81.739M	76.7M
5.15-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	164.88M	155.322M	155MD1D	164.04M	154.842M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.667M	16.787M	16M8D1D	15.522M	13.329M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.174M	19.103M	19M1D1D	15.522M	14.457M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.29M	37.771M	37M8D1D	34.696M	33.632M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.029M	76.99M	77M0D1D	75.435M	72.938M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.88M	155.442M	155MD1D	163.44M	154.867M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.304M	17.077M	17M1D1D	3.13M	3.936M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.478M	19.103M	19M1D1D	4.348M	4.457M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.681M	37.771M	37M8D1D	3.594M	3.994M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.522M	76.99M	77M0D1D	3.478M	4.052M

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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.232M	16.715M	21.232M	16.715M	21.377M	16.715M	21.377M	16.715M
5200MHz	Pass	Inf	32.681M	17.004M	22.319M	16.715M	26.667M	16.86M	27.464M	16.787M
5240MHz	Pass	Inf	38.623M	17.077M	21.812M	16.715M	23.261M	16.787M	29.348M	16.932M
5260MHz	Pass	Inf	21.087M	16.715M	21.449M	16.787M	21.377M	16.643M	21.449M	16.715M
5300MHz	Pass	Inf	21.377M	16.643M	21.304M	16.715M	21.449M	16.643M	21.522M	16.57M
5320MHz	Pass	Inf	21.449M	16.715M	21.377M	16.787M	21.377M	16.643M	21.449M	16.643M
5500MHz	Pass	Inf	21.304M	16.643M	21.304M	16.715M	21.594M	16.643M	21.449M	16.57M
5580MHz	Pass	Inf	21.304M	16.643M	21.522M	16.787M	21.522M	16.715M	21.232M	16.643M
5700MHz	Pass	Inf	21.449M	16.715M	21.449M	16.643M	21.667M	16.787M	21.449M	16.643M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.522M	13.329M	15.696M	13.372M	15.609M	13.415M	15.522M	13.372M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.246M	3.994M	3.13M	4.052M	3.13M	3.994M	3.13M	3.936M
5745MHz	Pass	500k	16.304M	17.004M	16.304M	16.932M	16.304M	17.077M	16.304M	17.077M
5785MHz	Pass	500k	16.304M	16.932M	16.304M	16.932M	16.304M	17.077M	16.304M	16.932M
5825MHz	Pass	500k	16.304M	17.004M	16.304M	16.932M	16.304M	17.004M	16.304M	16.86M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.826M	19.103M	22.609M	18.886M	22.464M	18.958M	22.681M	18.886M
5200MHz	Pass	Inf	30.362M	19.175M	25M	19.03M	26.304M	19.03M	26.884M	18.958M
5240MHz	Pass	Inf	30.58M	19.175M	23.841M	19.03M	25.145M	19.03M	26.884M	18.958M
5260MHz	Pass	Inf	22.609M	19.03M	22.319M	18.958M	21.522M	19.03M	22.029M	18.886M
5300MHz	Pass	Inf	22.029M	19.03M	22.101M	19.03M	21.522M	19.03M	22.029M	18.886M
5320MHz	Pass	Inf	21.884M	19.03M	22.101M	18.958M	21.522M	18.886M	22.174M	18.886M
5500MHz	Pass	Inf	21.812M	19.103M	22.174M	18.958M	21.232M	18.886M	21.739M	18.886M
5580MHz	Pass	Inf	21.884M	19.03M	22.174M	18.958M	21.232M	18.886M	21.957M	18.958M
5700MHz	Pass	Inf	21.957M	19.03M	22.101M	18.958M	21.377M	18.958M	21.739M	18.886M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.652M	14.544M	15.913M	14.501M	15.522M	14.457M	15.826M	14.457M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.464M	4.573M	4.348M	4.573M	4.406M	4.515M	4.348M	4.457M
5745MHz	Pass	500k	18.478M	19.03M	18.188M	19.03M	18.333M	19.03M	17.971M	18.958M
5785MHz	Pass	500k	18.478M	19.103M	17.826M	19.03M	17.899M	19.03M	17.971M	18.958M
5825MHz	Pass	500k	18.333M	19.03M	17.826M	19.03M	17.899M	19.03M	17.971M	18.958M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.29M	37.627M	40.29M	37.627M	40.29M	37.627M	39.71M	37.627M
5230MHz	Pass	Inf	76.812M	37.771M	40.29M	37.627M	76.957M	37.771M	64.348M	37.771M
5270MHz	Pass	Inf	40.145M	37.482M	40.29M	37.627M	40.145M	37.482M	39.71M	37.627M
5310MHz	Pass	Inf	40.145M	37.482M	40.145M	37.627M	40.145M	37.627M	39.71M	37.627M
5510MHz	Pass	Inf	40.29M	37.627M	40.29M	37.627M	40.145M	37.627M	39.71M	37.627M

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)
5590MHz	Pass	Inf	40.29M	37.771M	40.29M	37.627M	40.145M	37.627M	39.71M	37.627M
5670MHz	Pass	Inf	40.145M	37.627M	40.145M	37.627M	40.145M	37.627M	39.71M	37.627M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.101M	33.632M	34.899M	33.632M	35M	33.734M	34.696M	33.632M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	3.994M	3.768M	3.994M	3.768M	3.994M	3.594M	3.994M
5755MHz	Pass	500k	37.391M	37.771M	37.681M	37.771M	37.681M	37.627M	36.522M	37.627M
5795MHz	Pass	500k	37.681M	37.771M	37.681M	37.771M	37.681M	37.771M	36.522M	37.627M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.739M	76.7M	81.739M	76.7M	82.029M	76.7M	81.449M	76.99M
5290MHz	Pass	Inf	81.739M	76.7M	82.029M	76.99M	81.739M	76.7M	81.739M	76.99M
5530MHz	Pass	Inf	81.739M	76.99M	82.029M	76.99M	81.739M	76.7M	81.449M	76.99M
5610MHz	Pass	Inf	81.739M	76.99M	82.029M	76.99M	82.029M	76.99M	81.739M	76.99M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.435M	72.938M	75.435M	72.938M	75.87M	72.938M	75.652M	72.938M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.478M	4.052M	3.768M	4.052M	3.478M	4.052M	3.71M	4.052M
5775MHz	Pass	500k	75.942M	76.99M	76.522M	76.99M	76.232M	76.99M	75.362M	76.99M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.44M	77.481M	81.84M	77.601M	82.08M	77.481M	81.96M	77.721M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.32M	77.601M	82.2M	77.481M	82.08M	77.361M	82.92M	77.601M
5570MHz	Pass	Inf	164.88M	154.867M	163.68M	155.442M	163.44M	155.442M	163.68M	155.442M

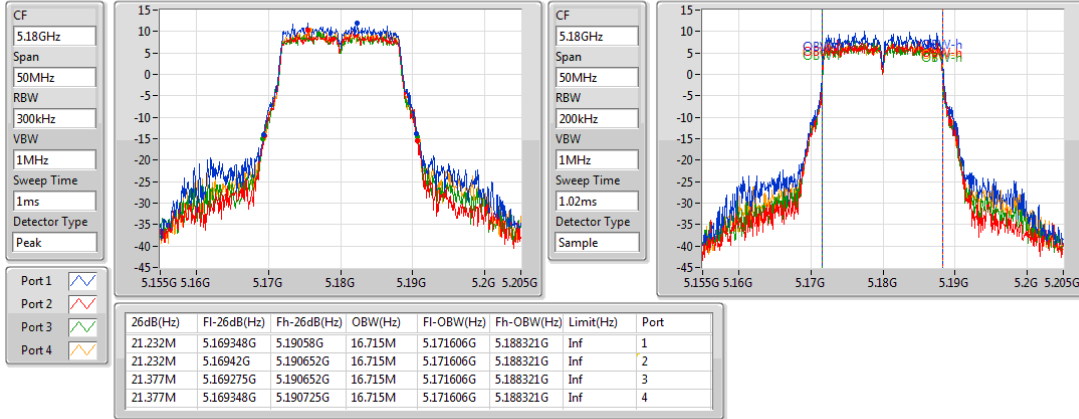
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_4TX

EBW

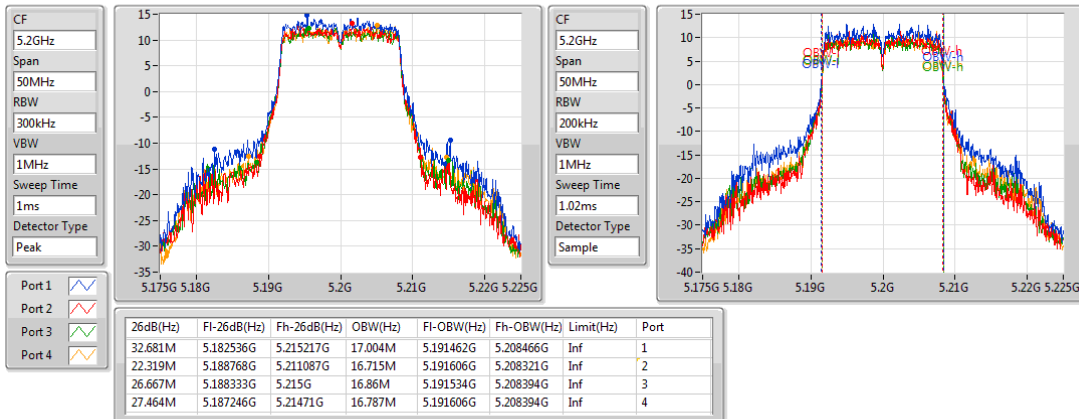
5180MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

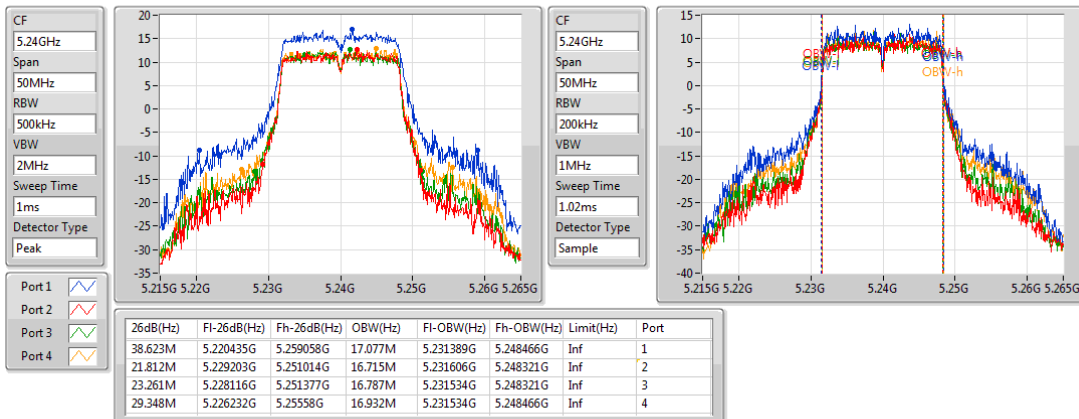
5200MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

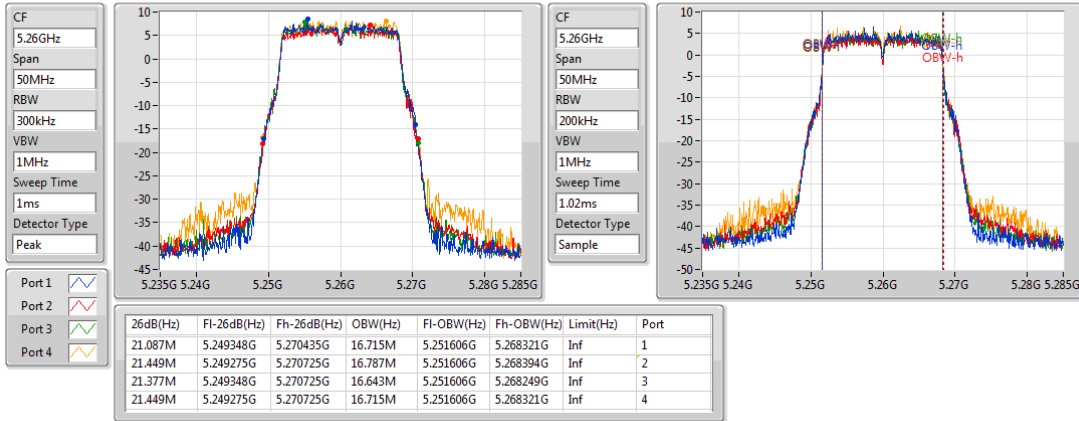
5240MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

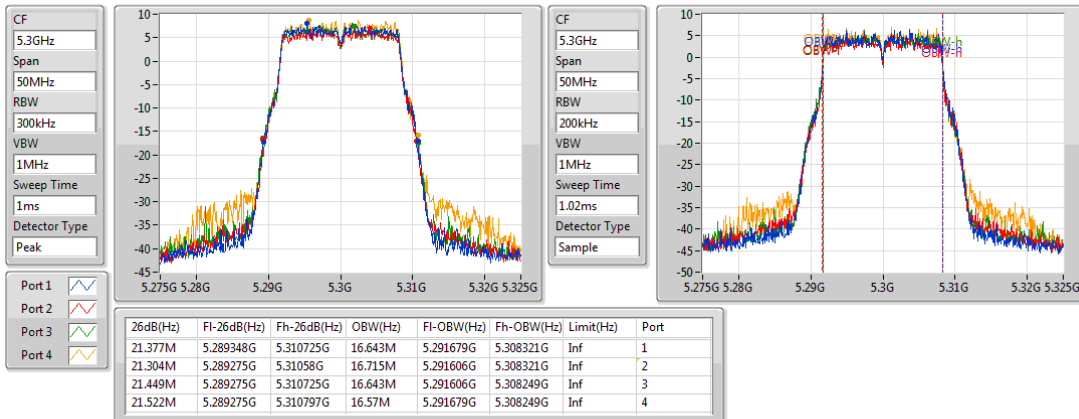
5260MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

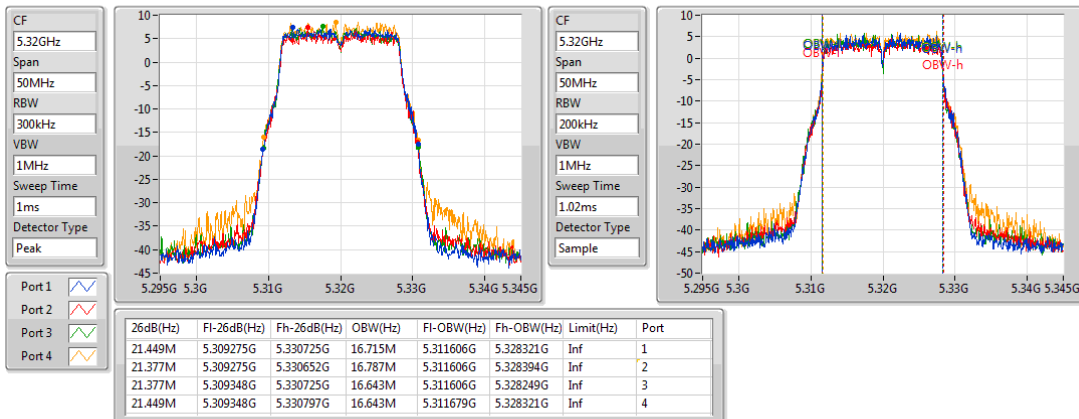
5300MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

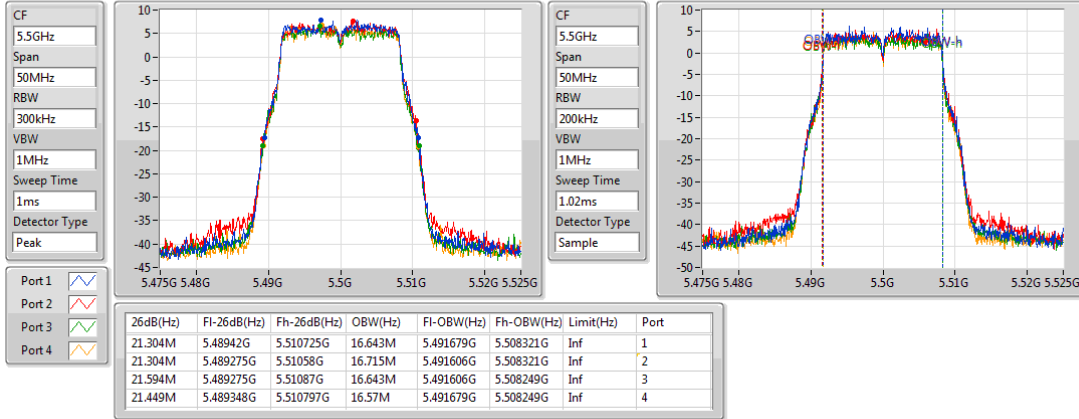
5320MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

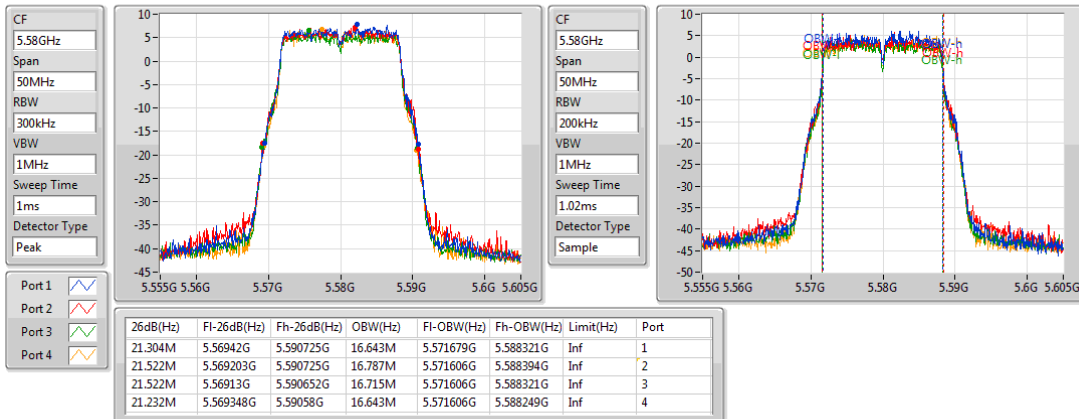
5500MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

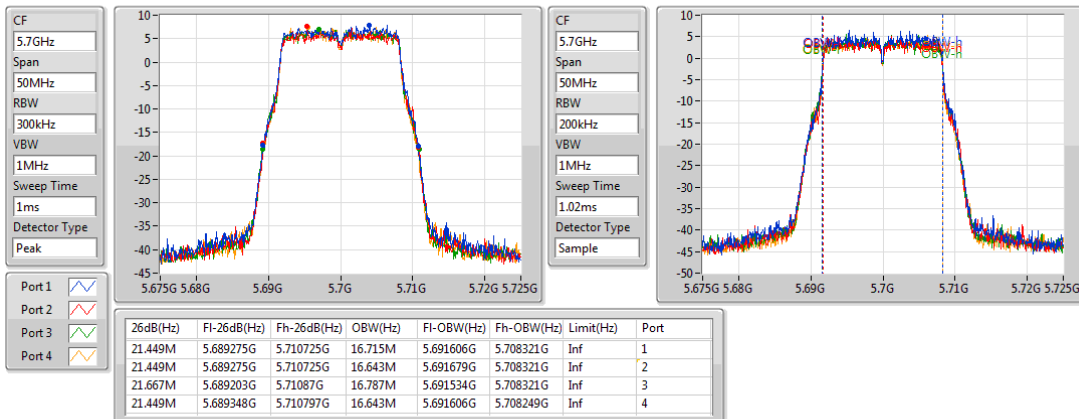
5580MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

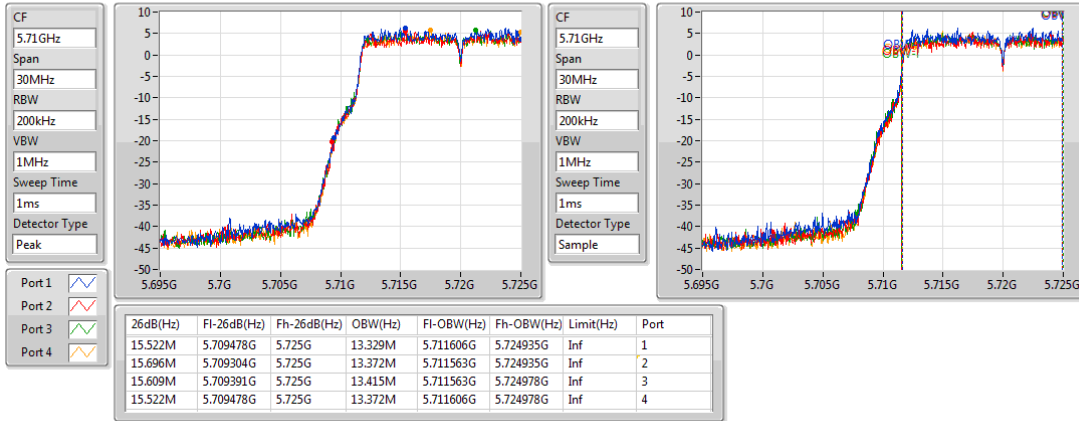
5700MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

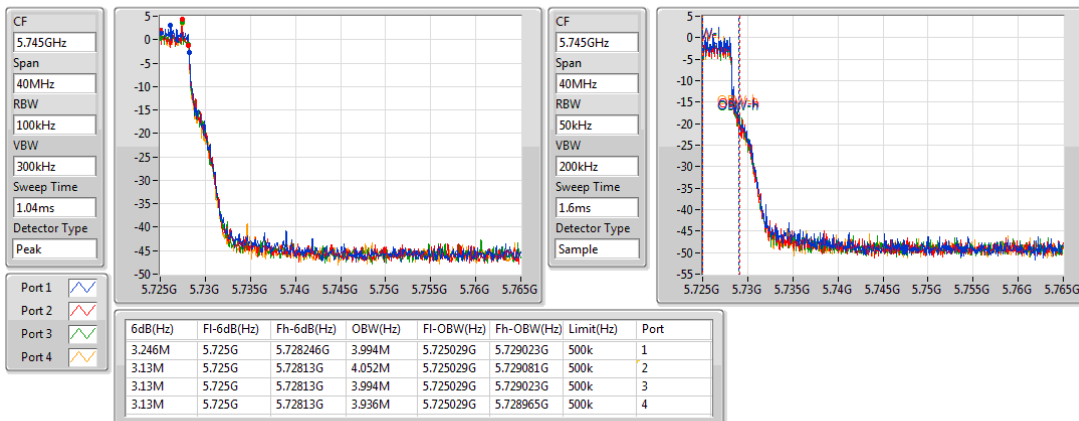
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_4TX

EBW

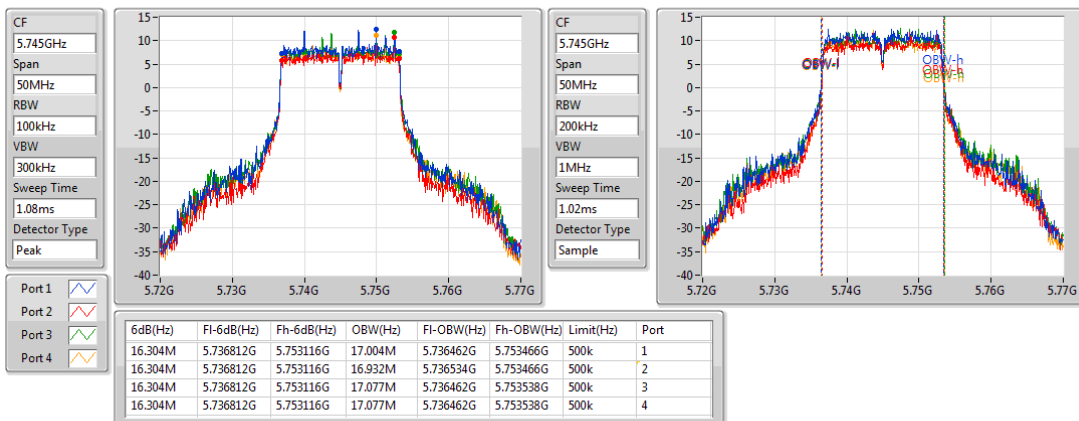
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_4TX

EBW

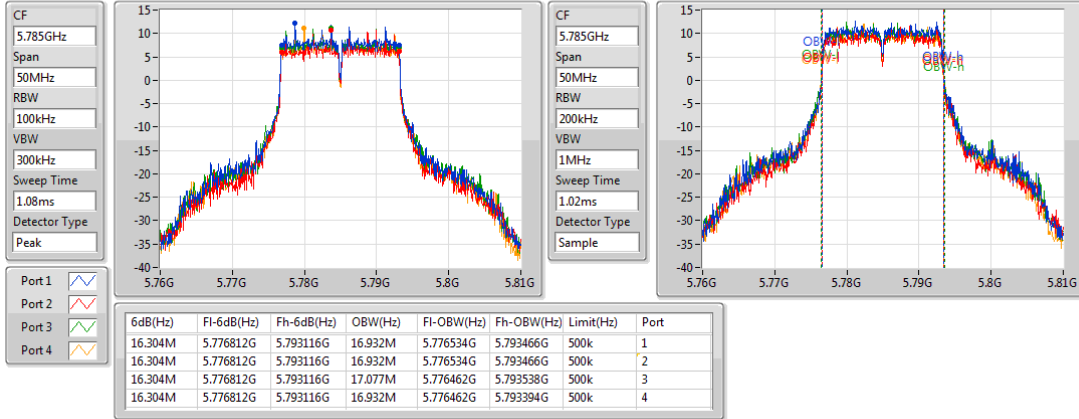
5745MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

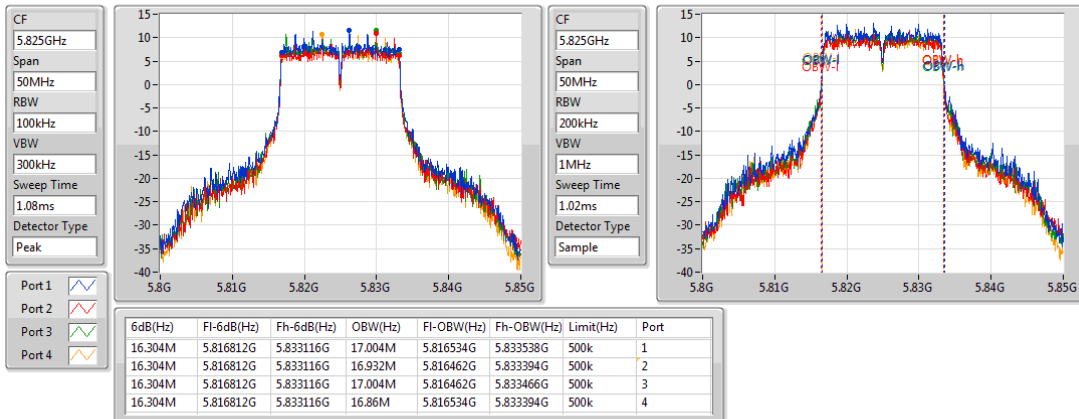
5785MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

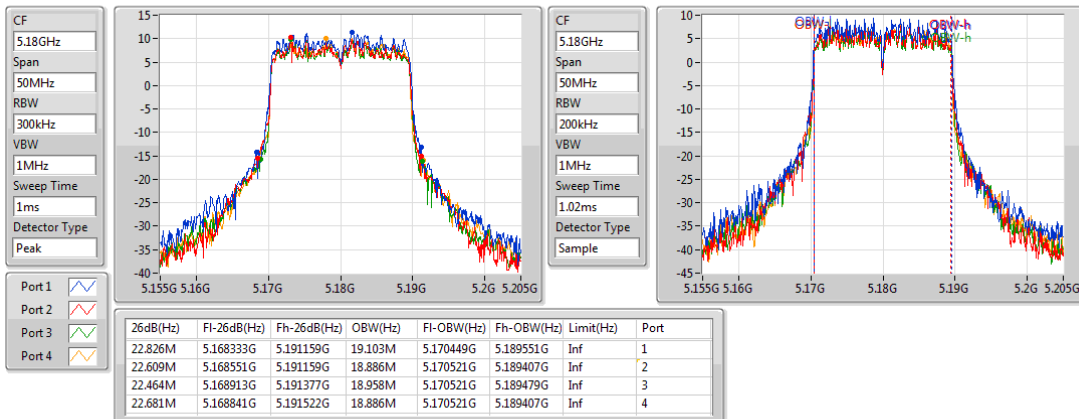
5825MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

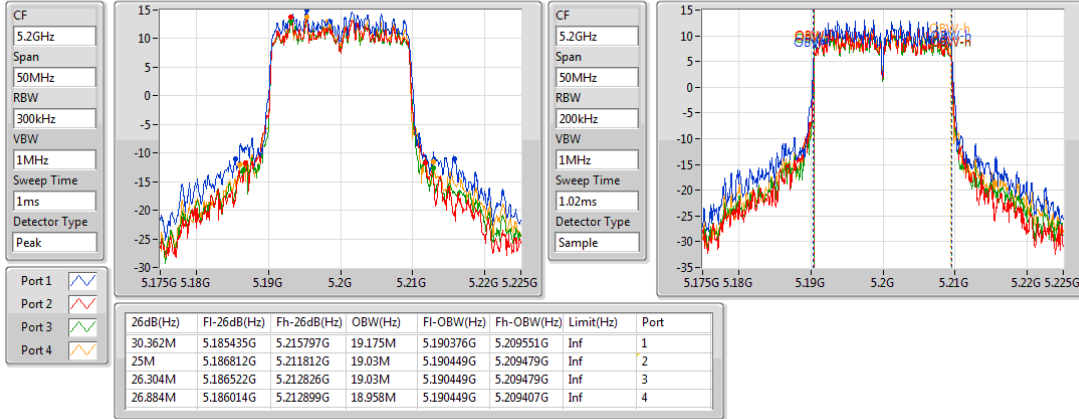
5180MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

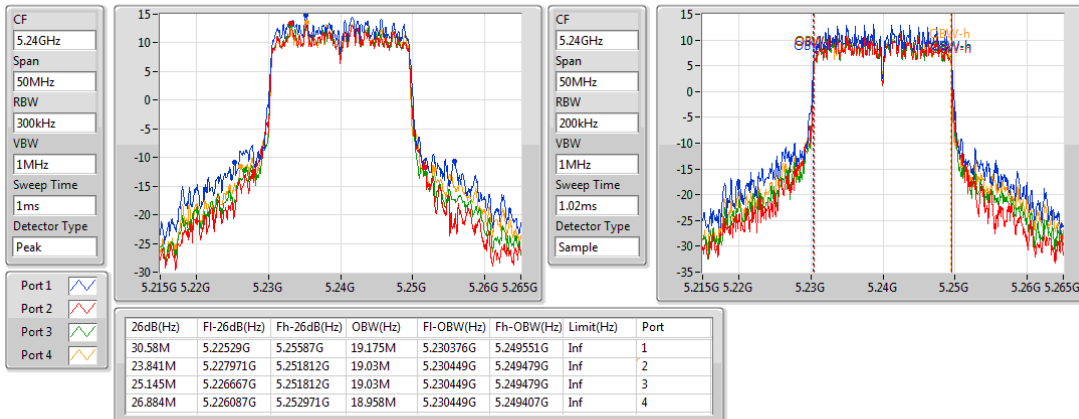
5200MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

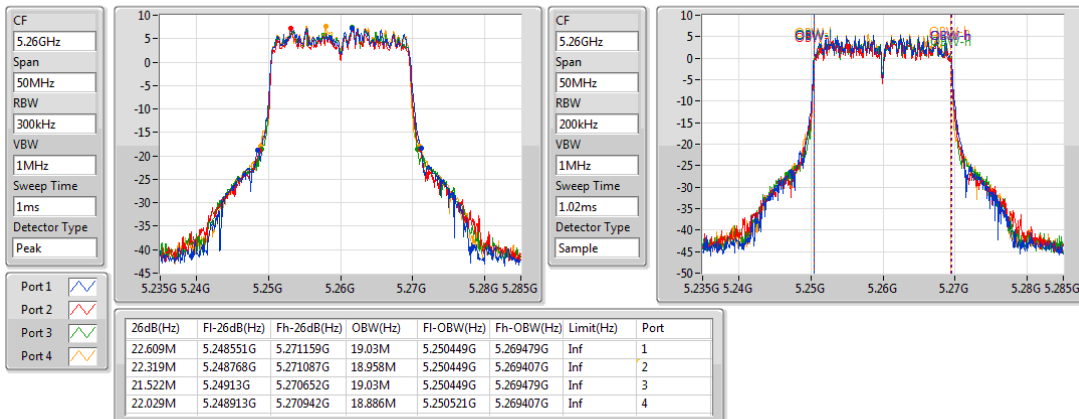
5240MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

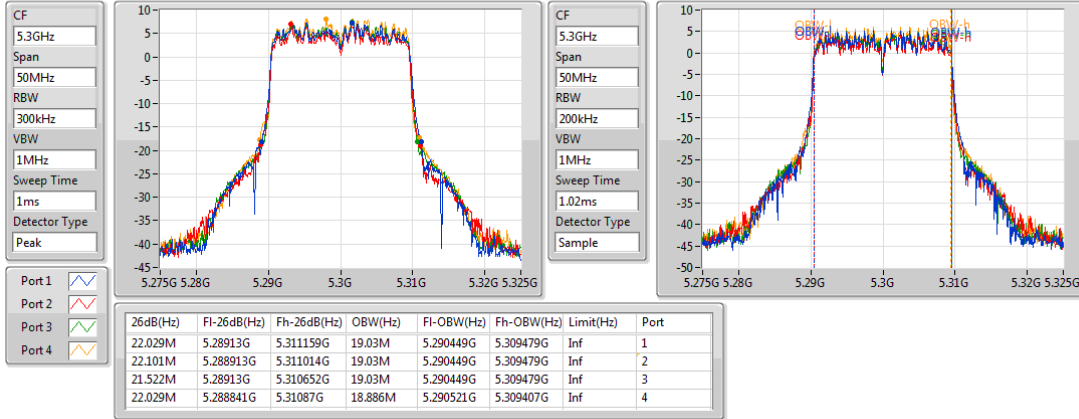
5260MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

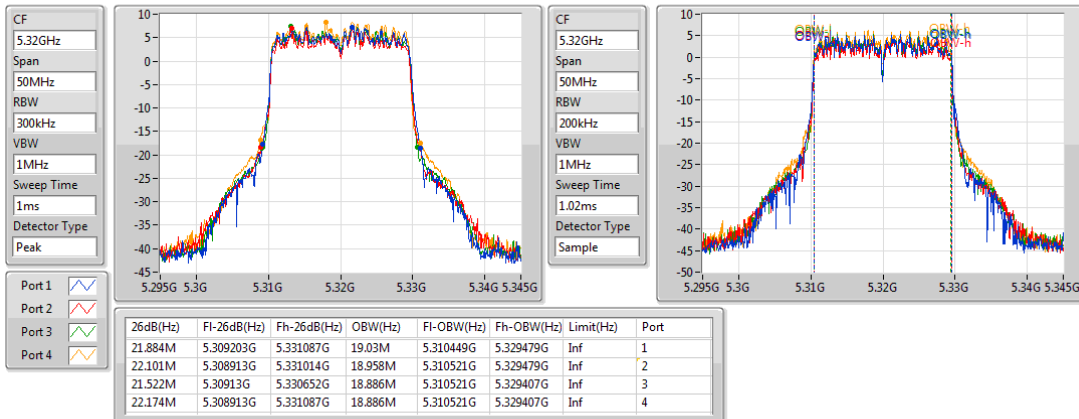
5300MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

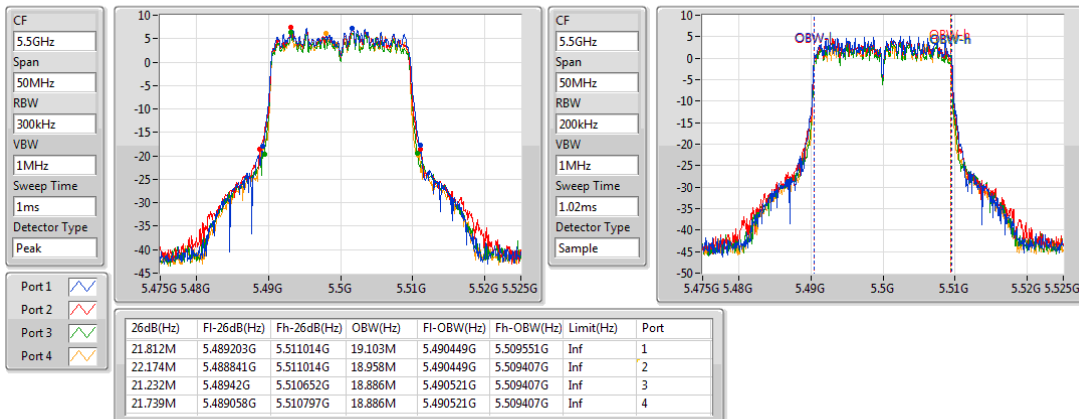
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802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

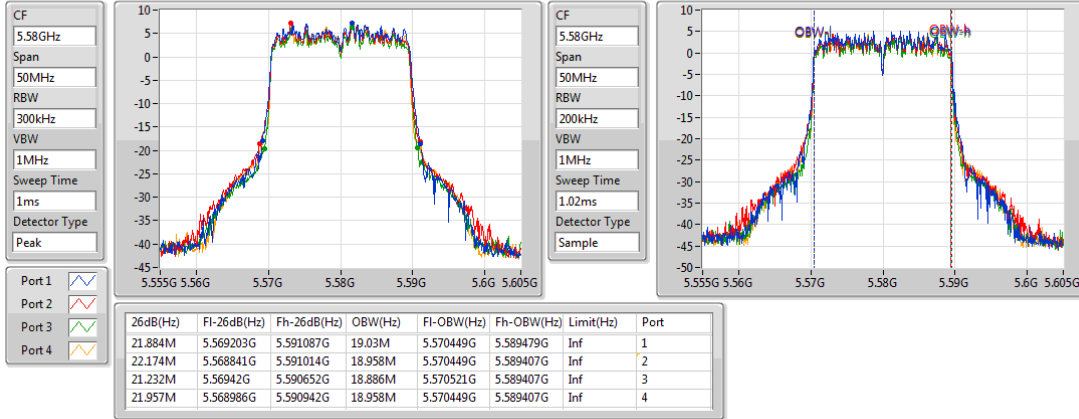
5500MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

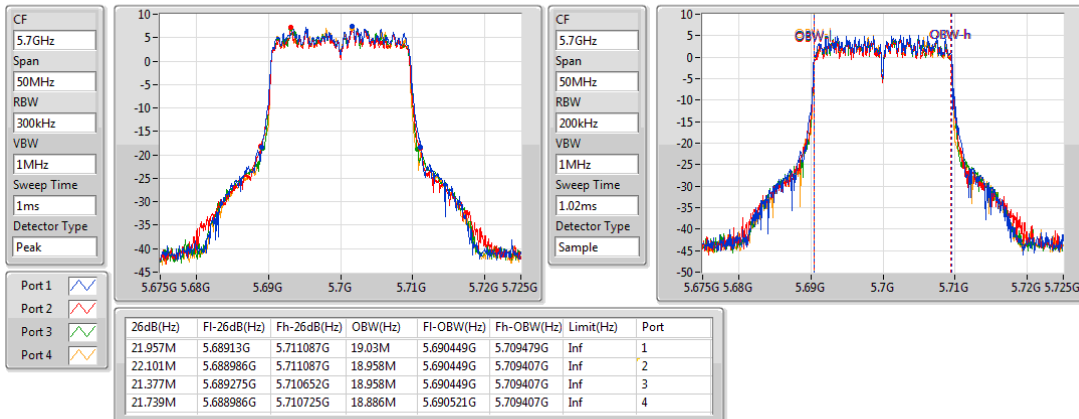
5580MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

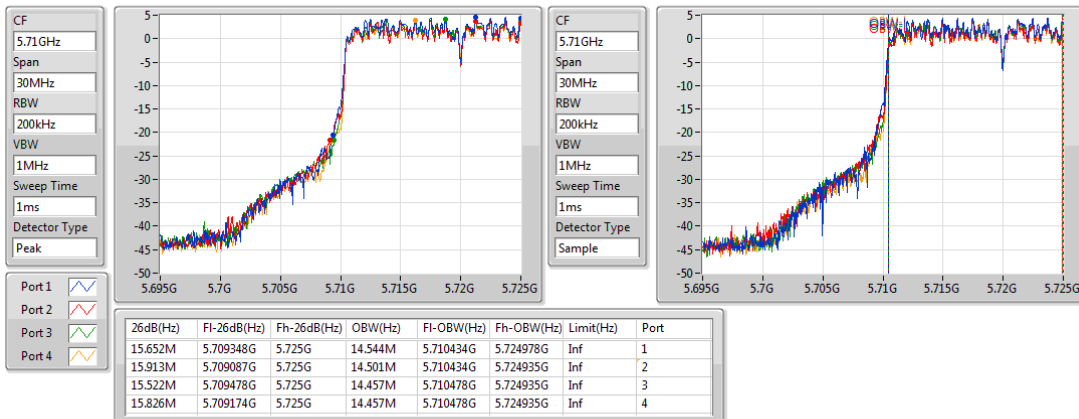
5700MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

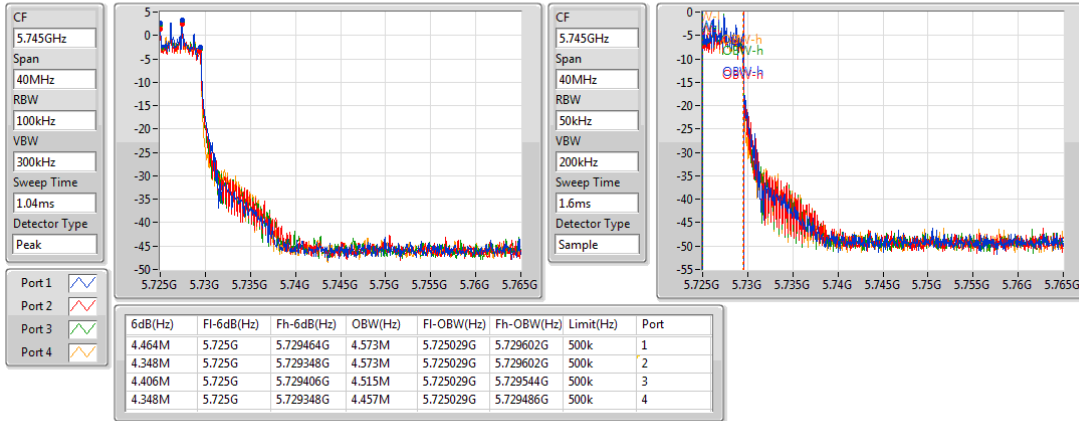
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

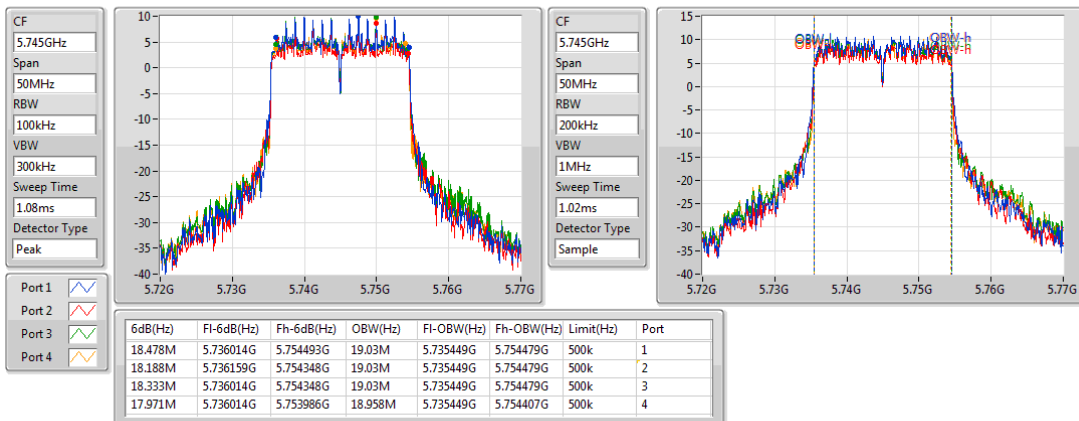
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

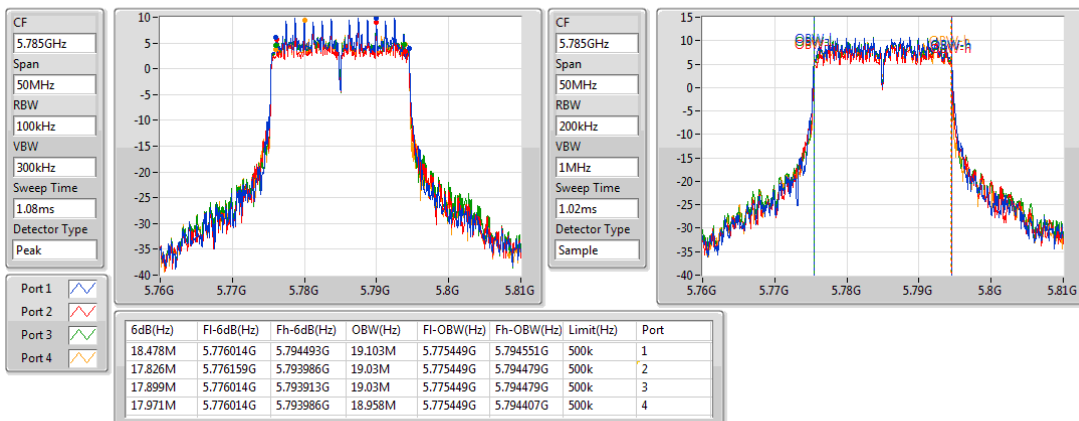
5745MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

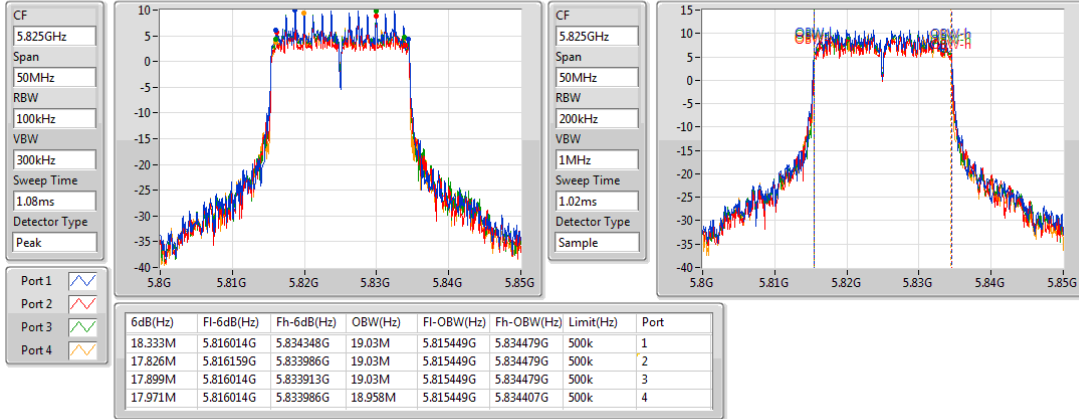
5785MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

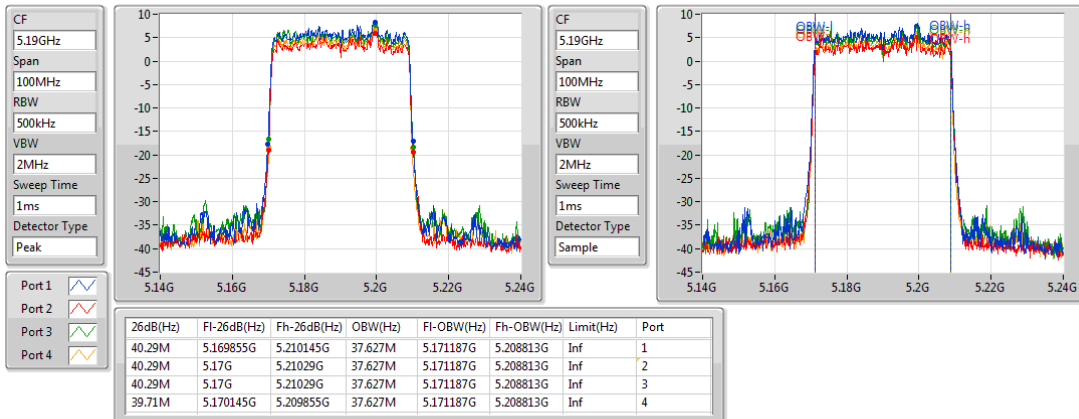
5825MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

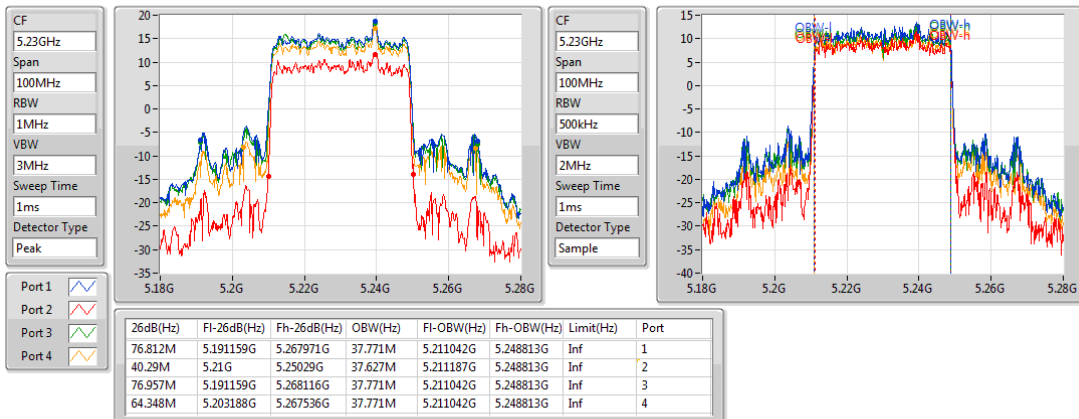
5190MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

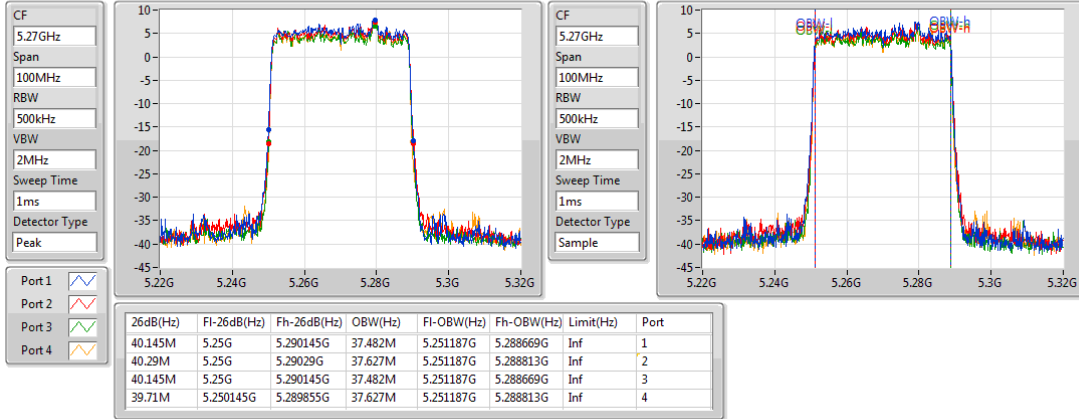
5230MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

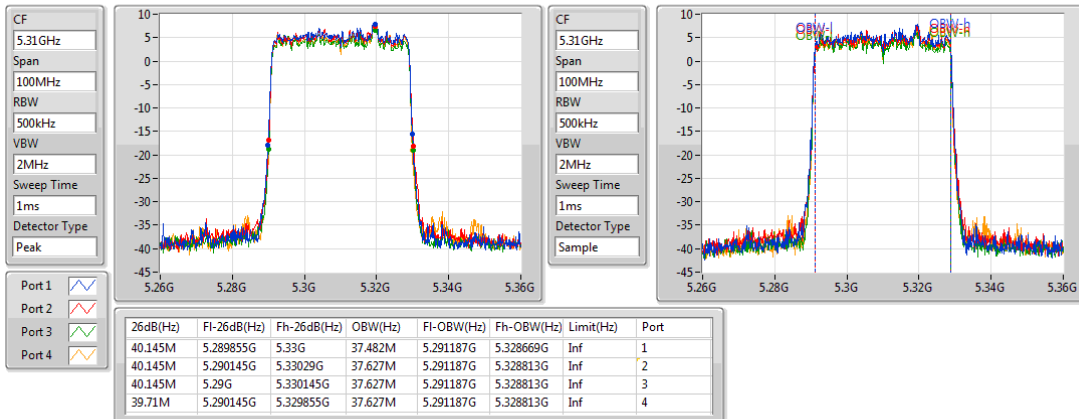
5270MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

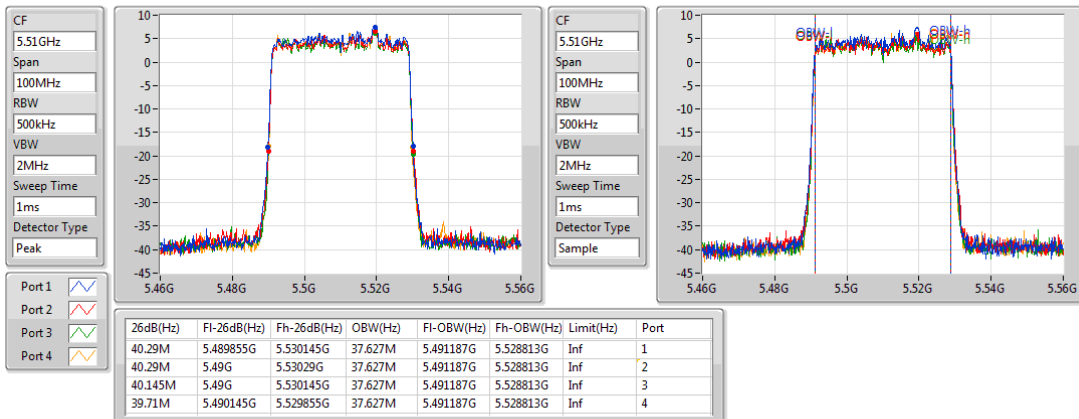
5310MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

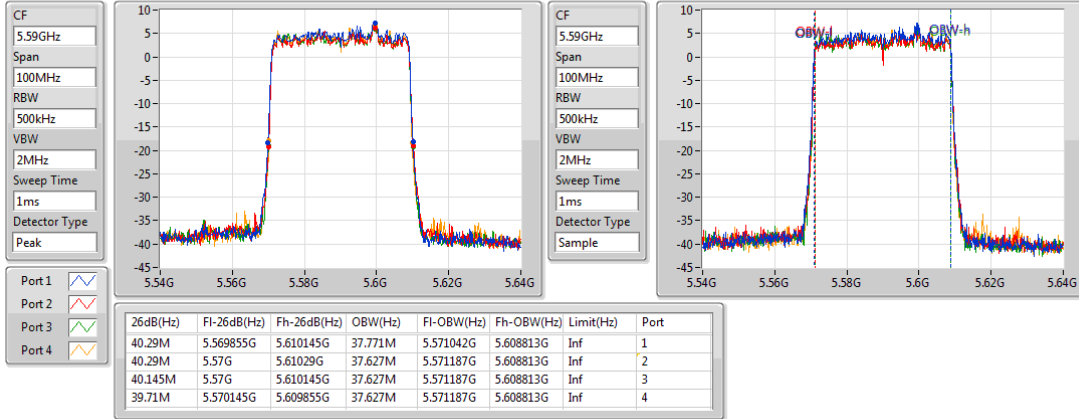
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802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

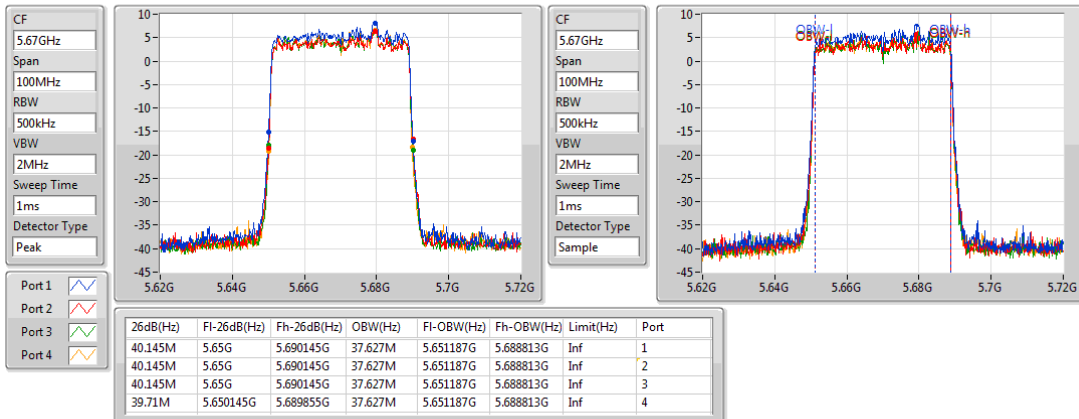
5590MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

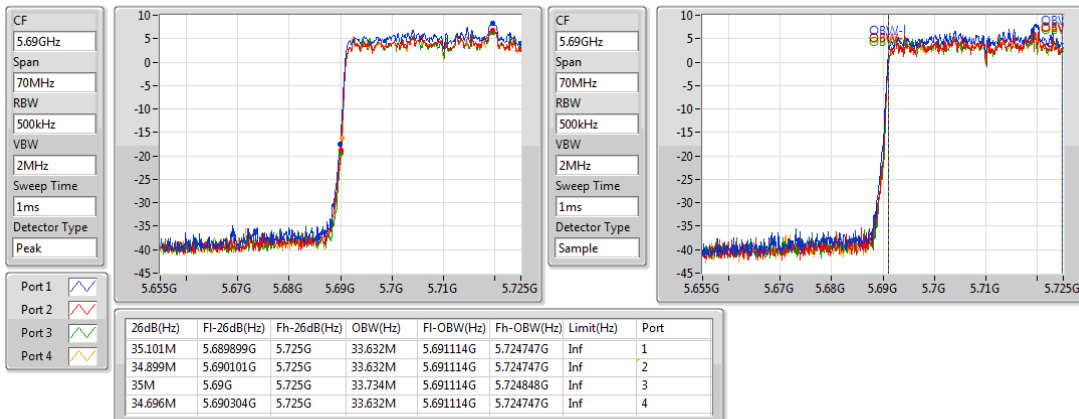
5670MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

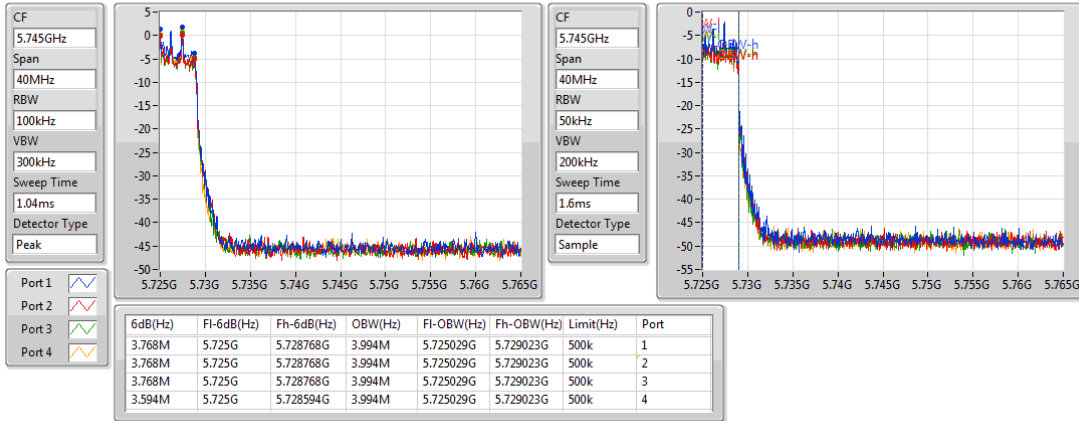
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

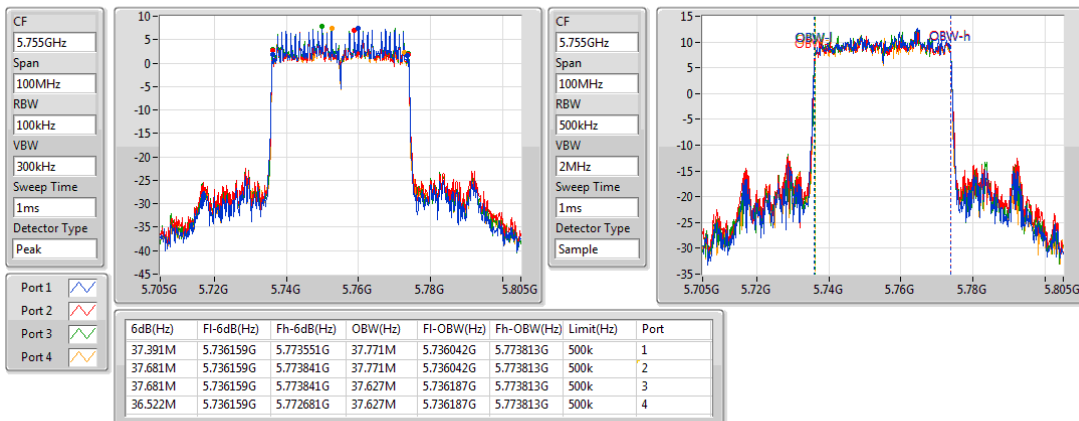
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

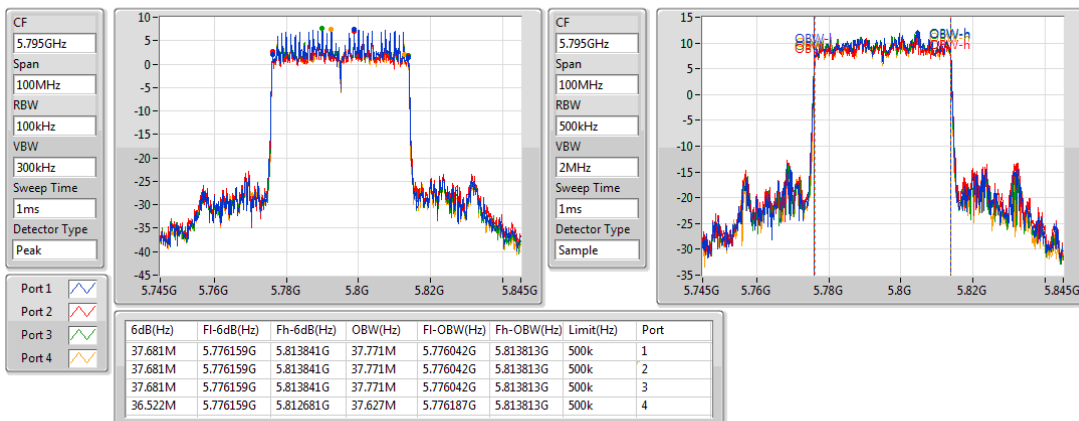
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

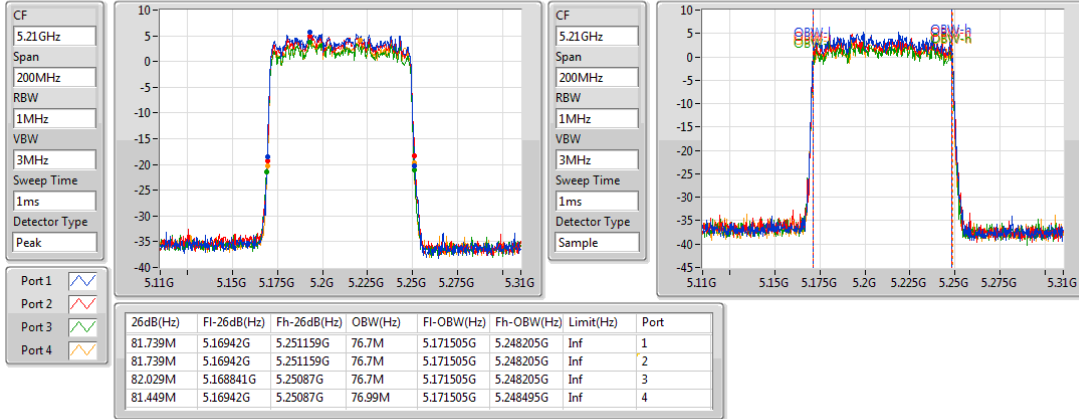
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

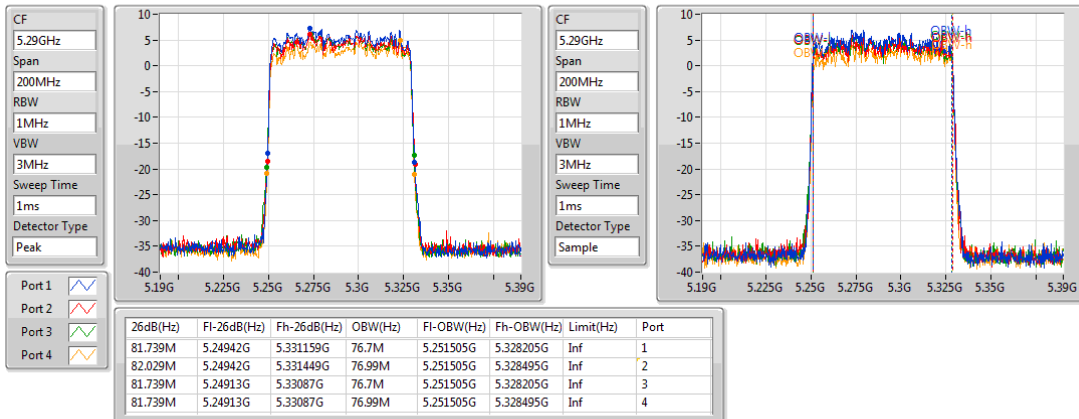
5210MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

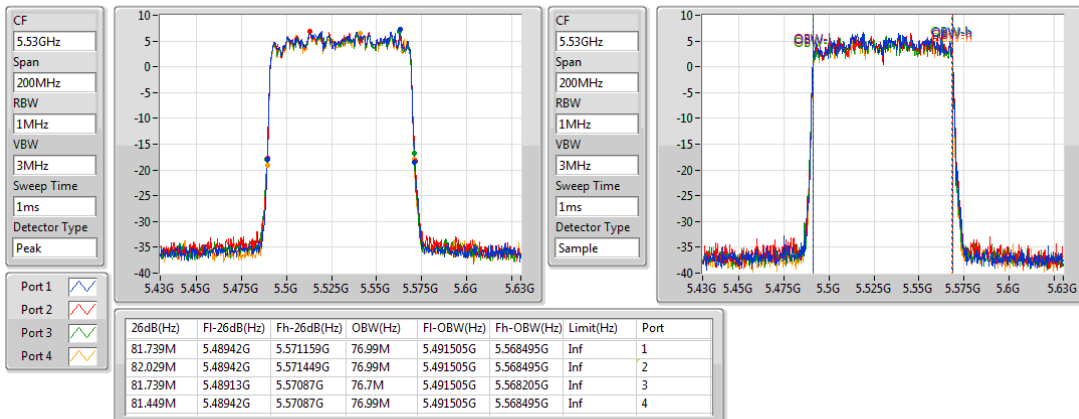
5290MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

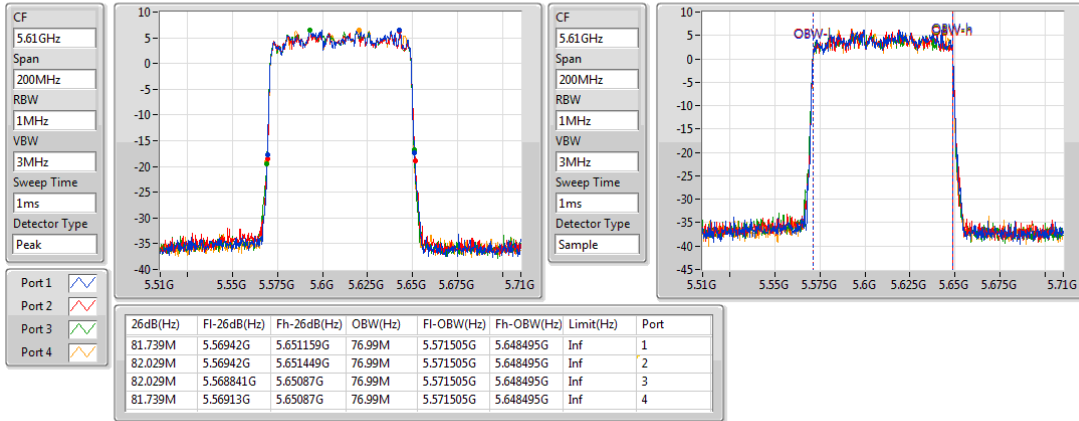
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802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

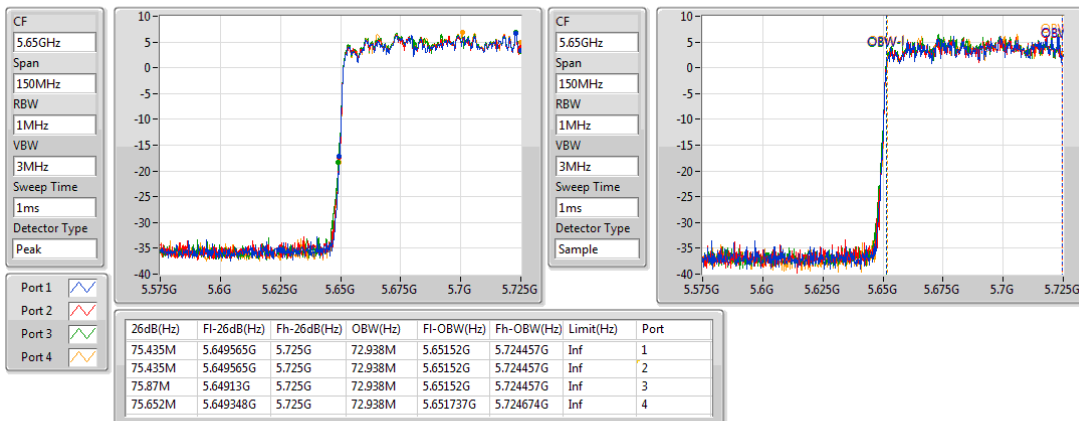
5610MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

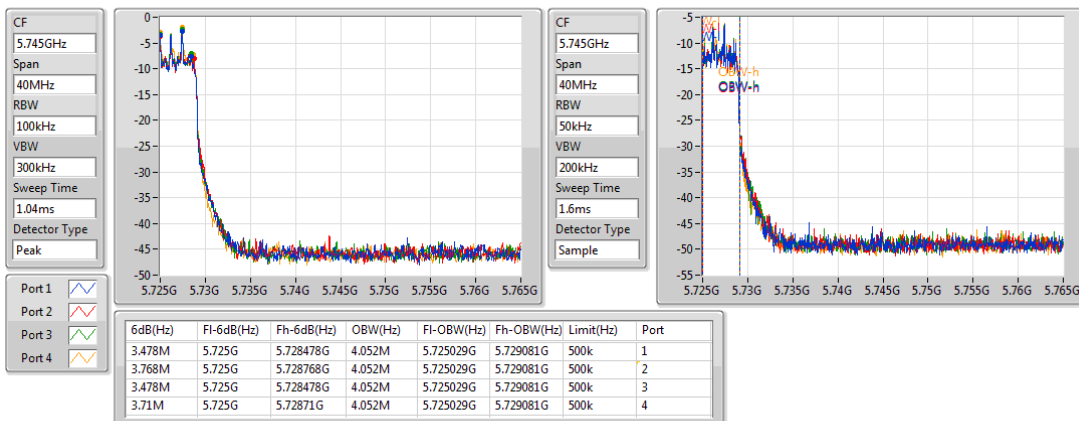
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

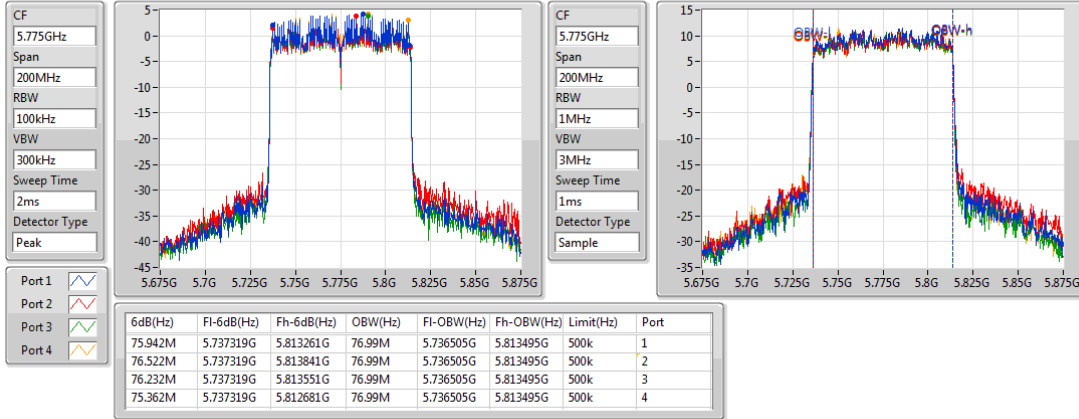
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

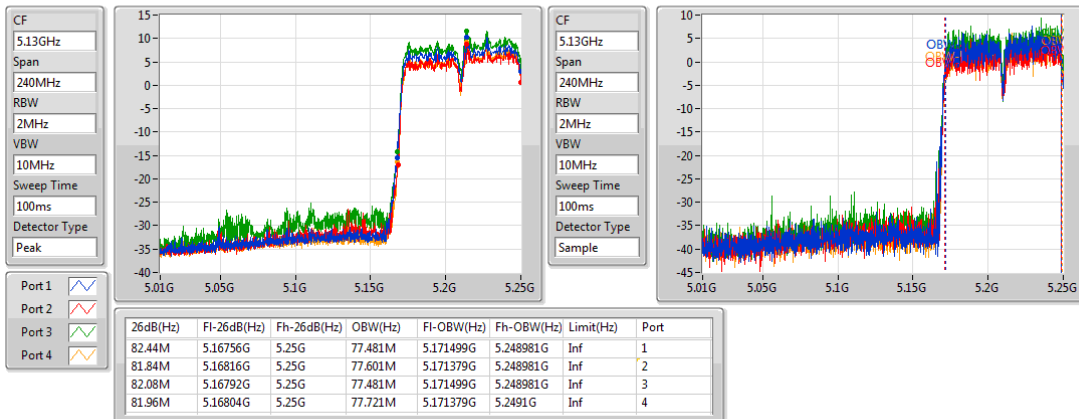
5775MHz



802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

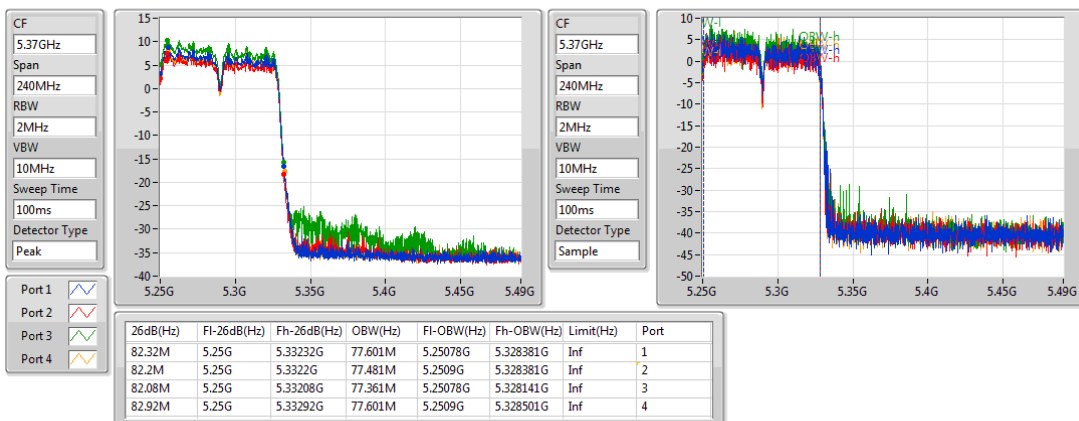
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz



802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz

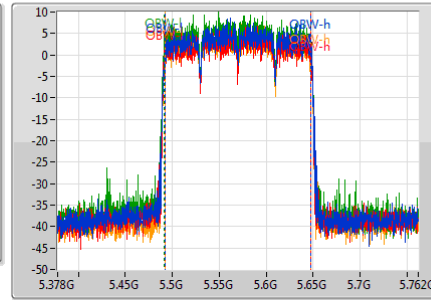
CF
5.57GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
164.88M	5.48768G	5.65256G	154.867M	5.492663G	5.647529G	Inf	1
163.68M	5.4884G	5.65208G	155.442M	5.492087G	5.647529G	Inf	2
163.44M	5.48816G	5.6516G	155.442M	5.491895G	5.647337G	Inf	3
163.68M	5.48864G	5.65232G	155.442M	5.492279G	5.647721G	Inf	4

CF
5.57GHz
Span
384MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Sample



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

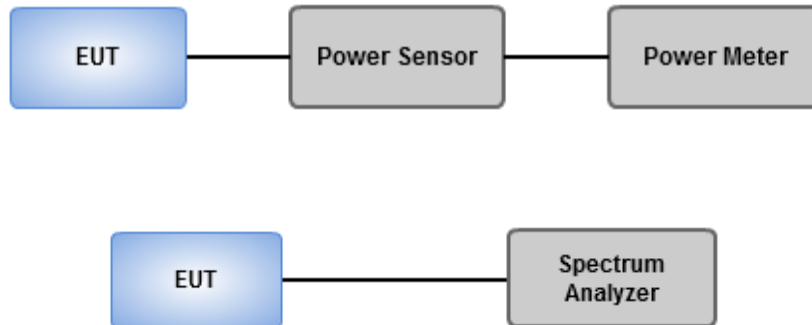
Method PM-G (Measurement using a gated RF average power meter)

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

Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.08	0.80910	29.58	0.90782
802.11ax HEW20_Nss1,(MCS0)_4TX	28.90	0.77625	29.40	0.87096
802.11ax HEW40_Nss1,(MCS0)_4TX	27.51	0.56364	28.01	0.63241
802.11ax HEW80_Nss1,(MCS0)_4TX	20.36	0.10864	20.86	0.12190
802.11ax HEW160_Nss1,(MCS0)_4TX	18.71	0.07430	19.21	0.08337
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.09	0.20370	24.09	0.25645
802.11ax HEW20_Nss1,(MCS0)_4TX	22.86	0.19320	23.86	0.24322
802.11ax HEW40_Nss1,(MCS0)_4TX	22.80	0.19055	23.80	0.23988
802.11ax HEW80_Nss1,(MCS0)_4TX	21.74	0.14928	22.74	0.18793
802.11ax HEW160_Nss1,(MCS0)_4TX	18.50	0.07079	19.50	0.08913
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.54	0.17947	24.04	0.25351
802.11ax HEW20_Nss1,(MCS0)_4TX	21.88	0.15417	23.38	0.21777
802.11ax HEW40_Nss1,(MCS0)_4TX	22.36	0.17219	23.86	0.24322
802.11ax HEW80_Nss1,(MCS0)_4TX	22.34	0.17140	23.84	0.24210
802.11ax HEW160_Nss1,(MCS0)_4TX	22.23	0.16711	23.73	0.23605
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.26	0.84333	31.01	1.26183
802.11ax HEW20_Nss1,(MCS0)_4TX	27.93	0.62087	29.68	0.92897
802.11ax HEW40_Nss1,(MCS0)_4TX	27.88	0.61376	29.63	0.91833
802.11ax HEW80_Nss1,(MCS0)_4TX	27.31	0.53827	29.06	0.80538

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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	0.50	20.81	19.36	19.59	19.62	25.90	30.00	26.40	36.00
5200MHz	Pass	0.50	23.81	22.63	22.83	22.85	29.08	30.00	29.58	36.00
5240MHz	Pass	0.50	23.54	22.79	22.84	22.78	29.02	30.00	29.52	36.00
5260MHz	Pass	1.00	17.11	16.45	17.22	17.39	23.08	24.00	24.08	30.00
5300MHz	Pass	1.00	17.12	16.35	17.26	17.48	23.09	24.00	24.09	30.00
5320MHz	Pass	1.00	16.69	16.08	17.04	17.51	22.88	24.00	23.88	30.00
5500MHz	Pass	1.50	17.02	16.76	16.01	16.15	22.53	24.00	24.03	30.00
5580MHz	Pass	1.50	17.06	16.75	15.92	16.24	22.54	24.00	24.04	30.00
5700MHz	Pass	1.50	17.02	16.36	16.32	16.21	22.51	24.00	24.01	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	1.50	15.14	15.25	15.23	15.72	21.36	22.91	22.86	28.91
5720MHz Straddle 5.725-5.85GHz	Pass	1.75	8.58	9.18	8.89	9.49	15.07	30.00	16.82	36.00
5745MHz	Pass	1.75	23.73	22.79	23.57	22.79	29.26	30.00	31.01	36.00
5785MHz	Pass	1.75	23.56	22.88	23.51	22.86	29.24	30.00	30.99	36.00
5825MHz	Pass	1.75	23.53	22.82	23.42	22.81	29.18	30.00	30.93	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	0.50	20.12	18.96	19.14	19.15	25.39	30.00	25.89	36.00
5200MHz	Pass	0.50	23.65	22.54	22.46	22.55	28.85	30.00	29.35	36.00
5240MHz	Pass	0.50	23.75	22.36	22.54	22.74	28.90	30.00	29.40	36.00
5260MHz	Pass	1.00	16.64	16.15	17.04	17.22	22.80	24.00	23.80	30.00
5300MHz	Pass	1.00	16.81	16.02	17.05	17.35	22.86	24.00	23.86	30.00
5320MHz	Pass	1.00	16.56	16.01	17.04	17.46	22.82	24.00	23.82	30.00
5500MHz	Pass	1.50	15.71	16.34	15.68	15.32	21.80	24.00	23.30	30.00
5580MHz	Pass	1.50	16.22	16.15	15.39	15.62	21.88	24.00	23.38	30.00
5700MHz	Pass	1.50	15.95	15.82	15.84	15.75	21.86	24.00	23.36	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	1.50	13.53	13.76	13.56	13.81	19.69	22.91	21.19	28.91
5720MHz Straddle 5.725-5.85GHz	Pass	1.75	8.16	8.48	8.28	8.53	14.39	30.00	16.14	36.00
5745MHz	Pass	1.75	22.31	21.35	22.16	21.3	27.82	30.00	29.57	36.00
5785MHz	Pass	1.75	22.37	21.33	22.19	21.36	27.86	30.00	29.61	36.00
5825MHz	Pass	1.75	22.41	21.63	22.16	21.38	27.93	30.00	29.68	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	0.50	17.63	15.82	17.52	16.21	22.89	30.00	23.39	36.00
5230MHz	Pass	0.50	22.05	20.36	22.13	21.18	27.51	30.00	28.01	36.00
5270MHz	Pass	1.00	17.24	16.95	16.35	16.51	22.80	24.00	23.80	30.00
5310MHz	Pass	1.00	17.29	16.81	16.59	16.35	22.79	24.00	23.79	30.00
5510MHz	Pass	1.50	16.55	15.79	15.85	15.92	22.06	24.00	23.56	30.00

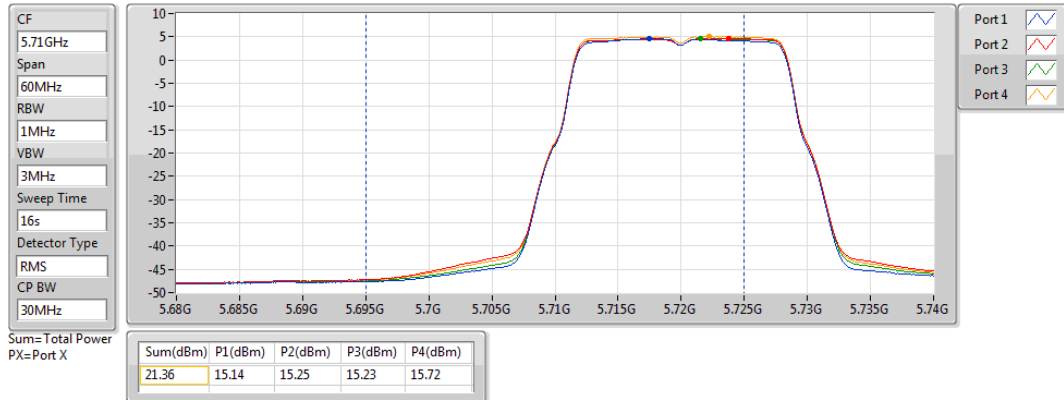
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	1.50	16.67	15.81	15.92	16.06	22.15	24.00	23.65	30.00
5670MHz	Pass	1.50	17.25	16.14	16.02	15.81	22.36	24.00	23.86	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	1.50	15.37	15.42	15.51	16.49	21.74	24.00	23.24	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.75	5.56	5.59	5.95	6.96	12.07	30.00	13.82	36.00
5755MHz	Pass	1.75	22.31	21.75	21.88	21.32	27.85	30.00	29.60	36.00
5795MHz	Pass	1.75	22.16	21.73	22.01	21.49	27.88	30.00	29.63	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	0.50	15.25	14.45	13.86	13.62	20.36	30.00	20.86	36.00
5290MHz	Pass	1.00	16.36	15.61	16.11	14.58	21.74	24.00	22.74	30.00
5530MHz	Pass	1.50	16.64	16.49	16.35	15.74	22.34	24.00	23.84	30.00
5610MHz	Pass	1.50	15.98	16.02	16.41	16.06	22.14	24.00	23.64	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	1.50	15.61	16.05	15.67	15.34	21.70	24.00	23.20	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.75	2.53	2.64	2.47	2.15	8.47	30.00	10.22	36.00
5775MHz	Pass	1.75	21.65	21.22	21.03	21.22	27.31	30.00	29.06	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	0.50	12.89	11.34	14.23	11.69	18.71	30.00	19.21	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	1.00	12.40	11.23	13.81	12.08	18.50	24.00	19.50	30.00
5570MHz	Pass	1.50	16.58	14.89	17.54	15.31	22.23	24.00	23.73	30.00

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

802.11a_Nss1,(6Mbps)_4TX

AV Power

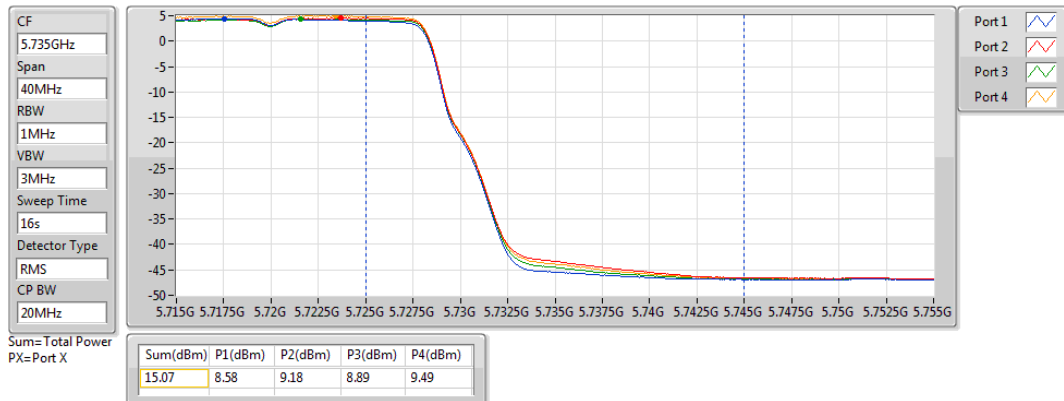
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_4TX

AV Power

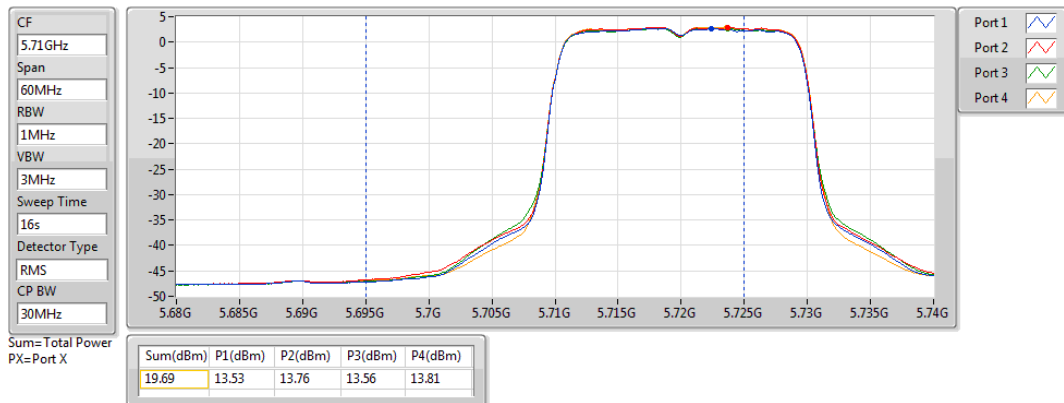
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

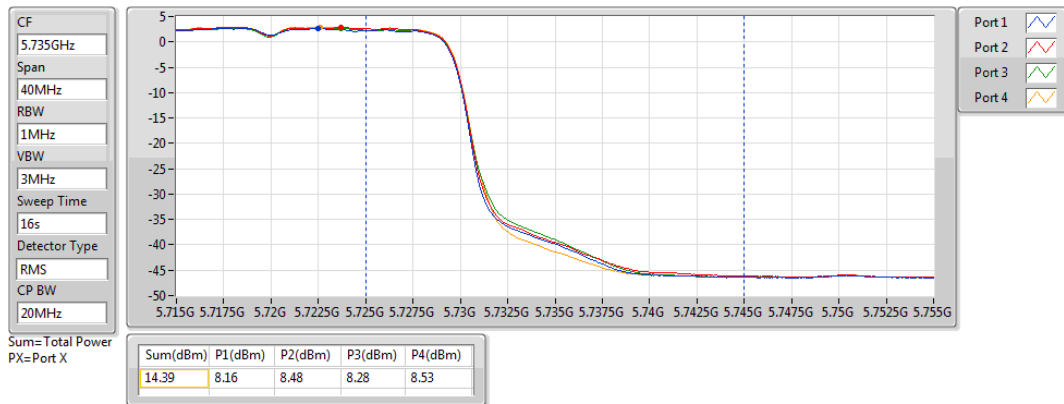
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

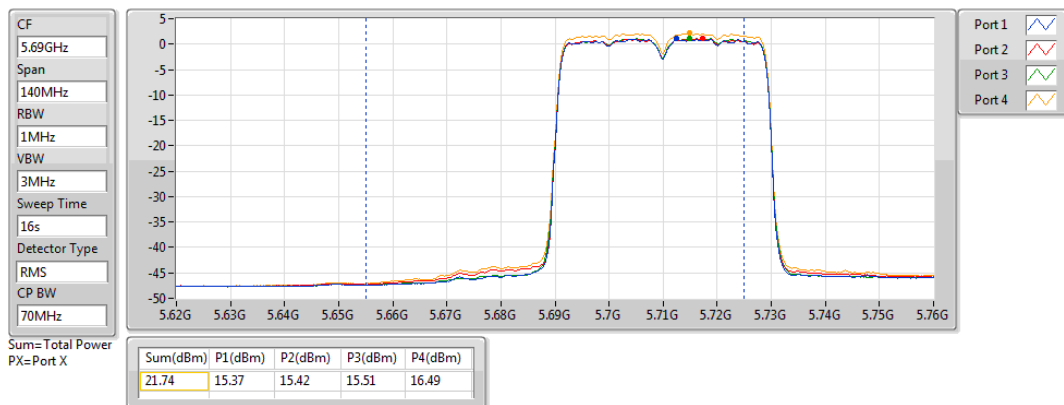
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

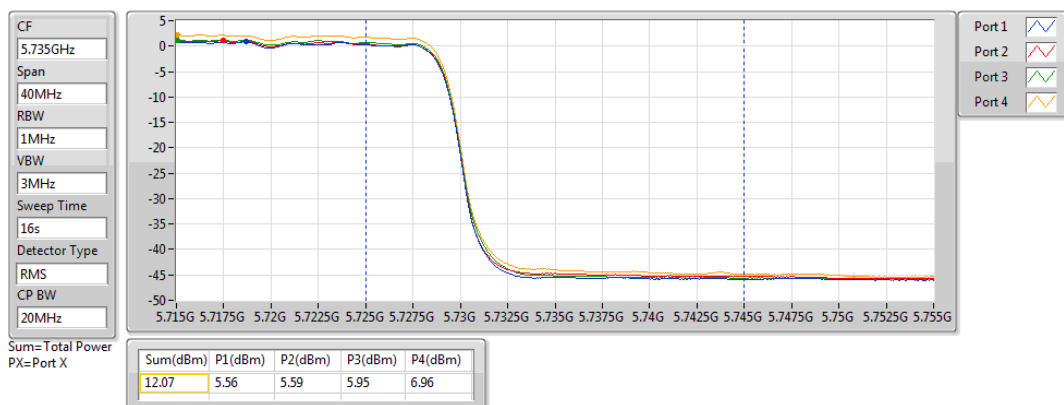
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

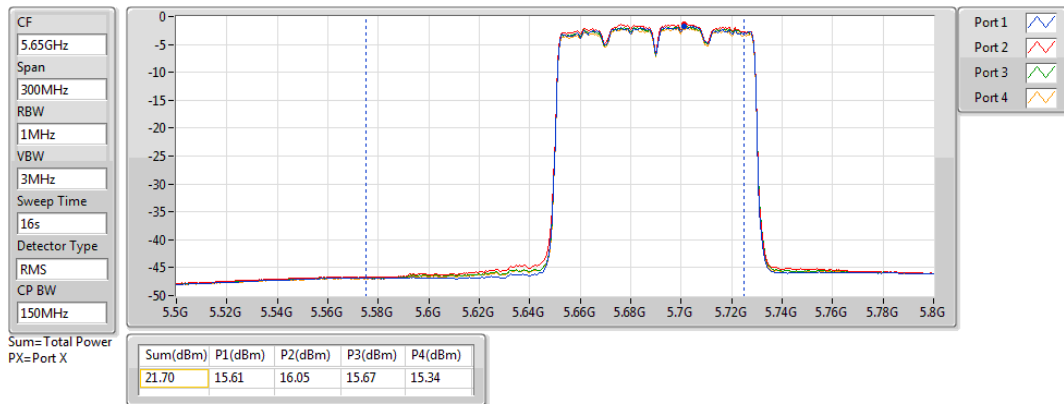
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

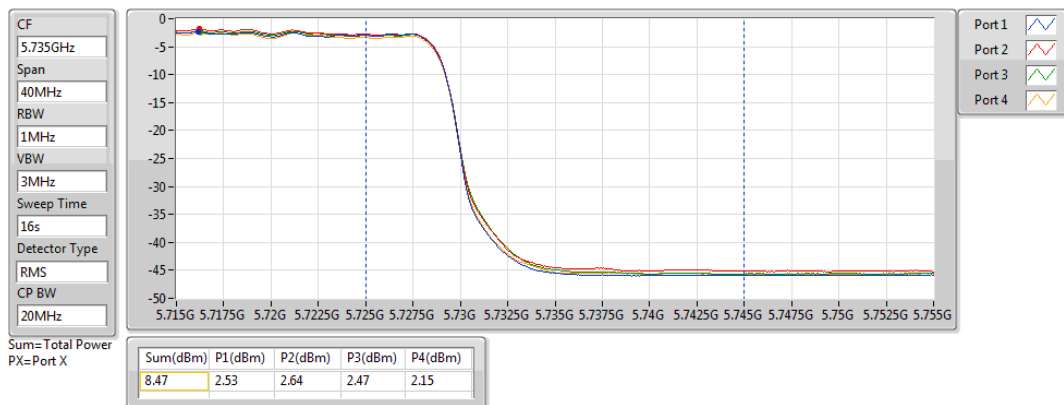
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

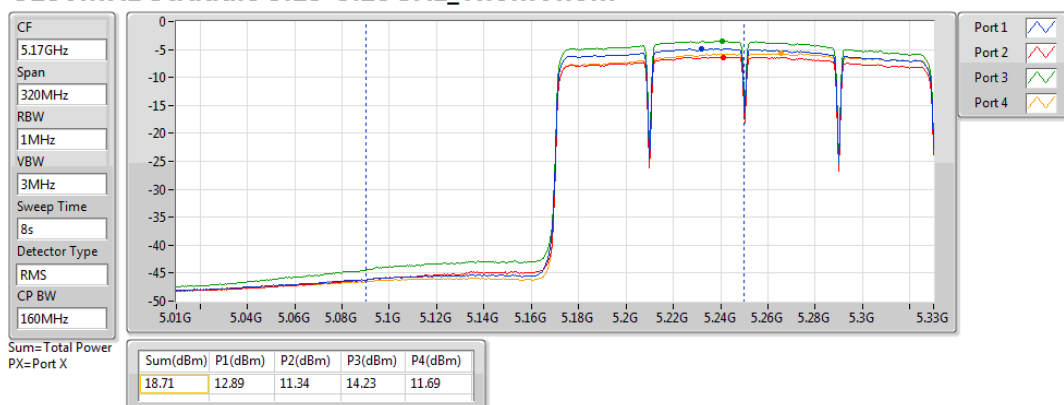
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

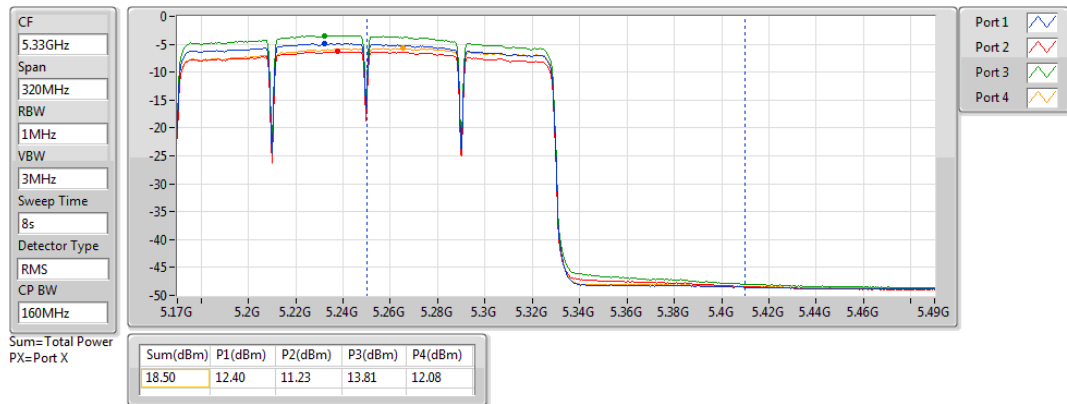
5250MHz Straddle 5.15-5.25GHz_TnomVnom



802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom



Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
ax20,bf_Nss1,(MCS0)_4TX	28.73	0.74645	35.25	3.34965
ax40,bf_Nss1,(MCS0)_4TX	27.38	0.54702	33.90	2.45471
ax80,bf_Nss1,(MCS0)_4TX	20.18	0.10423	26.70	0.46774
ax160,bf_Nss1,(MCS0)_4TX	17.55	0.05689	24.07	0.25527
5.25-5.35GHz	-	-	-	-
ax20,bf_Nss1,(MCS0)_4TX	22.74	0.18793	29.76	0.94624
ax40,bf_Nss1,(MCS0)_4TX	22.68	0.18535	29.70	0.93325
ax80,bf_Nss1,(MCS0)_4TX	21.62	0.14521	28.64	0.73114
ax160,bf_Nss1,(MCS0)_4TX	17.76	0.05970	24.78	0.30061
5.47-5.725GHz	-	-	-	-
ax20,bf_Nss1,(MCS0)_4TX	21.76	0.14997	29.28	0.84723
ax40,bf_Nss1,(MCS0)_4TX	22.09	0.16181	29.61	0.91411
ax80,bf_Nss1,(MCS0)_4TX	22.08	0.16144	29.60	0.91201
ax160,bf_Nss1,(MCS0)_4TX	18.05	0.06383	25.57	0.36058
5.725-5.85GHz	-	-	-	-
ax20,bf_Nss1,(MCS0)_4TX	27.53	0.56624	35.30	3.38844
ax40,bf_Nss1,(MCS0)_4TX	27.71	0.59020	35.48	3.53183
ax80,bf_Nss1,(MCS0)_4TX	27.01	0.50234	34.78	3.00608

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)
ax20,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	20.08	18.72	18.96	18.84	25.21	29.48	31.73	36.00
5200MHz	Pass	6.52	23.53	22.38	22.41	22.26	28.70	29.48	35.22	36.00
5240MHz	Pass	6.52	23.69	21.95	22.46	22.54	28.73	29.48	35.25	36.00
5260MHz	Pass	7.02	16.36	15.89	17.02	16.96	22.60	22.98	29.62	30.00
5300MHz	Pass	7.02	16.52	15.82	17.08	17.14	22.69	22.98	29.71	30.00
5320MHz	Pass	7.02	16.42	15.96	17.12	17.24	22.74	22.98	29.76	30.00
5500MHz	Pass	7.52	15.68	16.02	15.63	15.26	21.68	22.48	29.20	30.00
5580MHz	Pass	7.52	16.34	15.84	15.32	15.38	21.76	22.48	29.28	30.00
5700MHz	Pass	7.52	16.02	15.65	15.82	15.24	21.71	22.48	29.23	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.52	13.59	12.81	13.15	12.58	19.07	22.48	26.59	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.77	8.66	7.28	8.01	8.06	14.05	28.23	21.82	36.00
5745MHz	Pass	7.77	21.98	21.21	21.83	20.89	27.52	28.23	35.29	36.00
5785MHz	Pass	7.77	21.96	20.96	21.85	21.19	27.53	28.23	35.30	36.00
5825MHz	Pass	7.77	21.86	21.08	21.94	20.92	27.49	28.23	35.26	36.00
ax40,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.52	17.51	15.62	17.46	16.04	22.76	29.48	29.28	36.00
5230MHz	Pass	6.52	22.18	20.28	22.08	20.54	27.38	29.48	33.90	36.00
5270MHz	Pass	7.02	17.08	16.72	16.65	15.81	22.61	22.98	29.63	30.00
5310MHz	Pass	7.02	16.95	16.88	16.54	16.25	22.68	22.98	29.70	30.00
5510MHz	Pass	7.52	16.51	15.71	15.96	15.68	22.00	22.48	29.52	30.00
5590MHz	Pass	7.52	16.43	15.69	16.08	15.76	22.02	22.48	29.54	30.00
5670MHz	Pass	7.52	16.91	16.02	15.86	15.35	22.09	22.48	29.61	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.52	16.6	15.62	15.23	15.08	21.69	22.48	29.21	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.77	5.25	5.5	6.02	5.28	11.54	28.23	19.31	36.00
5755MHz	Pass	7.77	22.15	21.66	21.84	21.05	27.71	28.23	35.48	36.00
5795MHz	Pass	7.77	21.95	21.52	21.69	21.02	27.58	28.23	35.35	36.00
ax80,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.52	15.06	14.42	13.65	13.29	20.18	29.48	26.70	36.00
5290MHz	Pass	7.02	16.15	15.39	16.22	14.39	21.62	22.98	28.64	30.00
5530MHz	Pass	7.52	16.25	16.18	16.31	15.45	22.08	22.48	29.60	30.00
5610MHz	Pass	7.52	15.61	15.98	16.32	15.68	21.93	22.48	29.45	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.52	15.2	15.57	15.83	15.46	21.54	22.48	29.06	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.77	1.48	0.94	4.19	1.74	8.30	28.23	16.07	36.00
5775MHz	Pass	7.77	21.42	21.09	20.86	20.56	27.01	28.23	34.78	36.00

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
ax160,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.52	11.31	10.58	13.02	10.75	17.55	29.48	24.07	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	7.02	11.69	10.27	12.77	11.86	17.76	22.98	24.78	30.00
5570MHz	Pass	7.52	11.91	10.59	13.54	11.53	18.05	22.48	25.57	30.00

Port X = Port X output power

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. 5150-5250 MHz
Directional gain = $0.5 + 10 * \log(4/1) = 6.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (6.52 \text{ dBi} - 6 \text{ dBi}) = 29.48 \text{ dBm}$.

5250-5350 MHz
Directional gain = $1 + 10 * \log(4/1) = 7.02 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $24 \text{ dBm} - (7.02 \text{ dBi} - 6 \text{ dBi}) = 22.98 \text{ dBm}$.

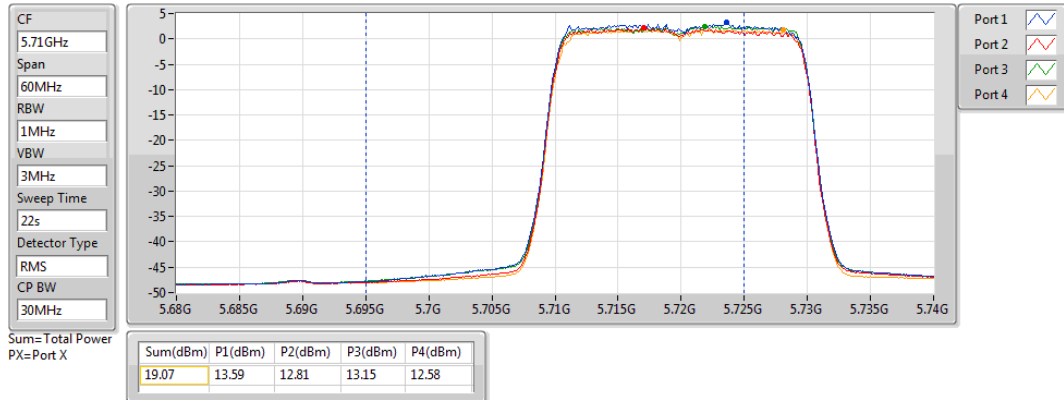
5470-5750 MHz
Directional gain = $1.5 + 10 * \log(4/1) = 7.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $24 \text{ dBm} - (7.52 \text{ dBi} - 6 \text{ dBi}) = 22.48 \text{ dBm}$.

5725-5850 MHz
Directional gain = $1.75 + 10 * \log(4/1) = 7.77 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (7.77 \text{ dBi} - 6 \text{ dBi}) = 28.23 \text{ dBm}$.

ax20,bf_Nss1,(MCS0)_4TX

AV Power

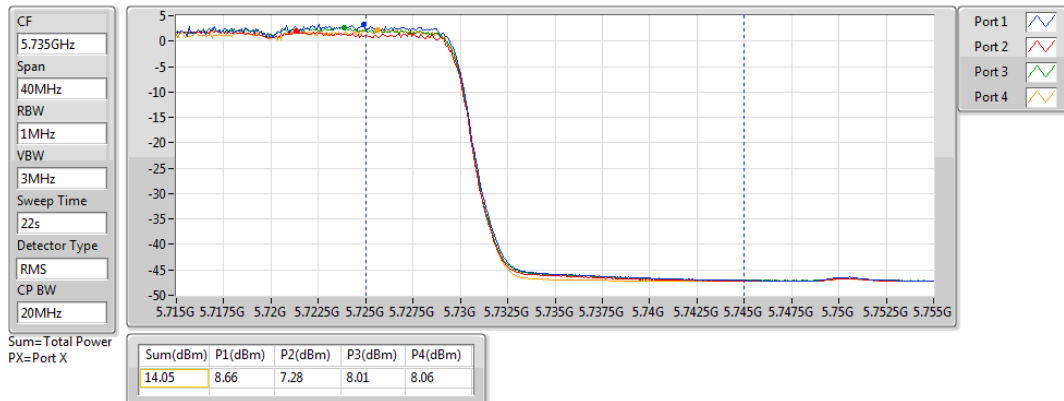
5720MHz Straddle 5.47-5.725GHz



ax20,bf_Nss1,(MCS0)_4TX

AV Power

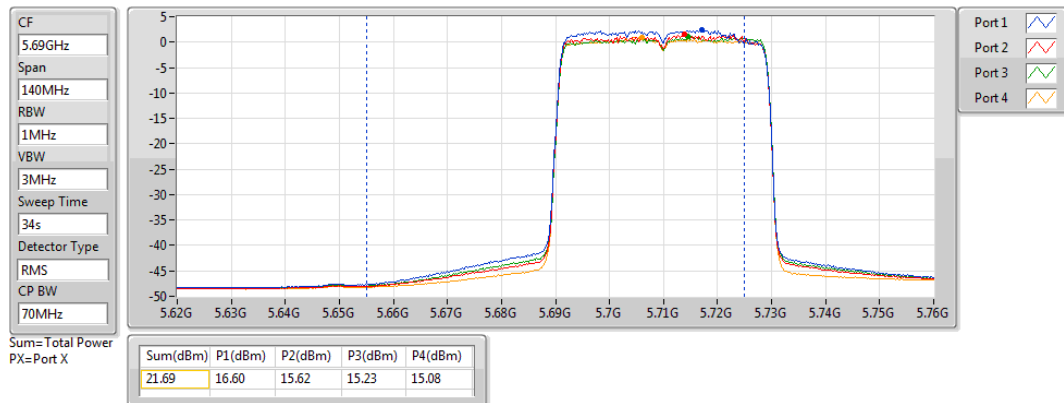
5720MHz Straddle 5.725-5.85GHz



ax40,bf_Nss1,(MCS0)_4TX

AV Power

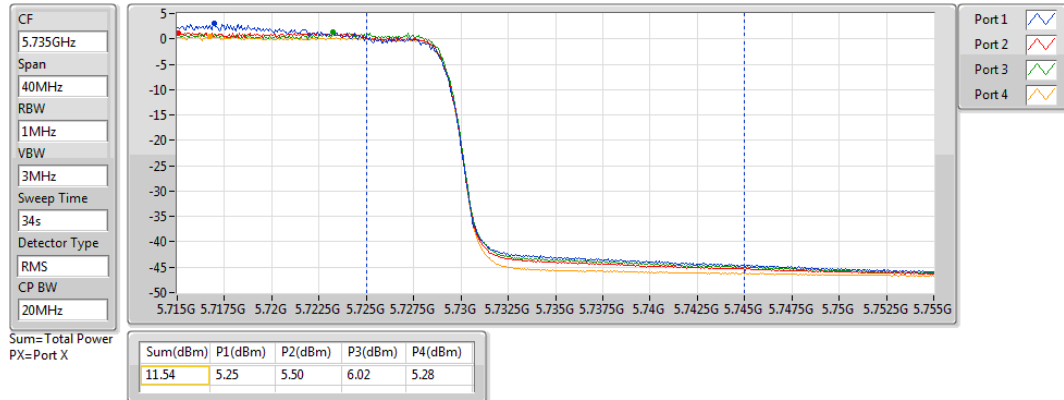
5710MHz Straddle 5.47-5.725GHz



ax40,bf_Nss1,(MCS0)_4TX

AV Power

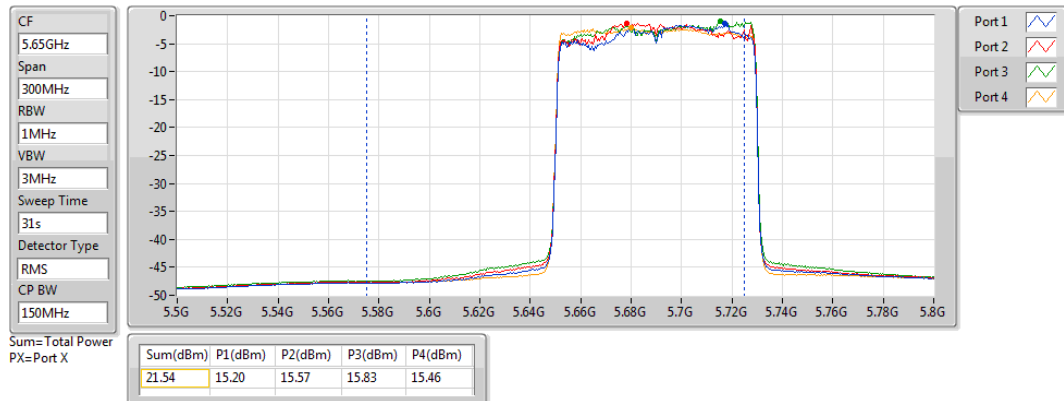
5710MHz Straddle 5.725-5.85GHz



ax80,bf_Nss1,(MCS0)_4TX

AV Power

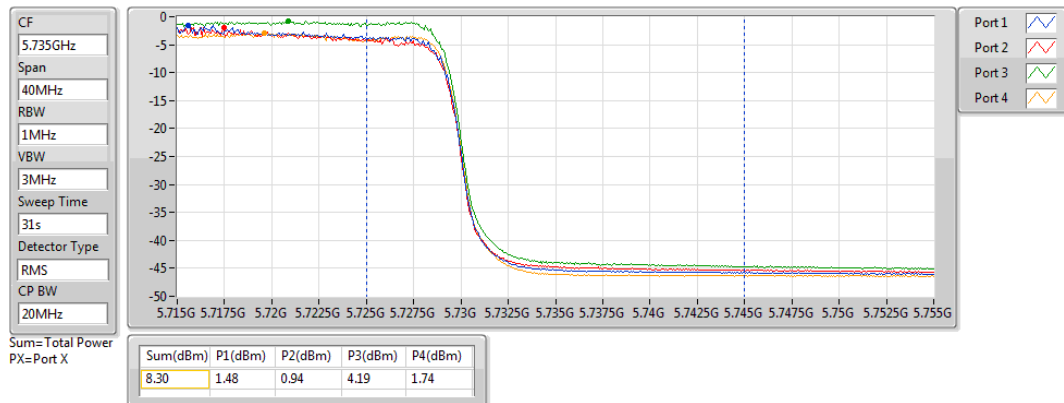
5690MHz Straddle 5.47-5.725GHz



ax80,bf_Nss1,(MCS0)_4TX

AV Power

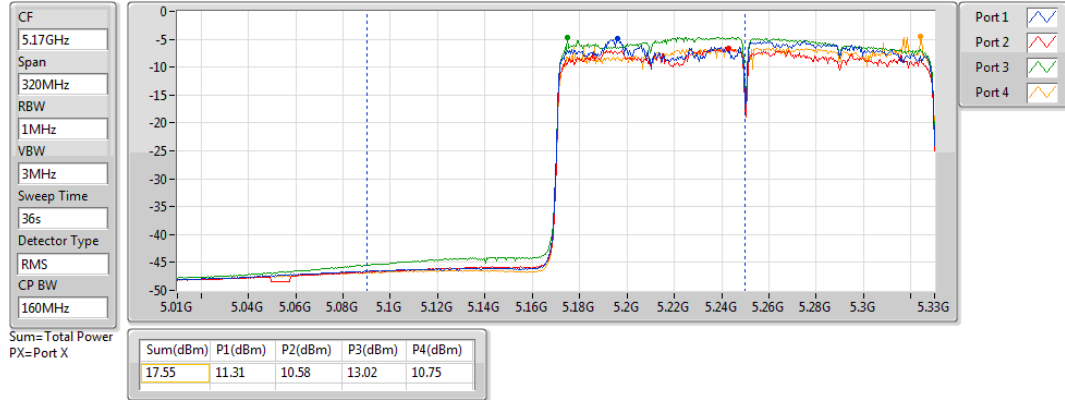
5690MHz Straddle 5.725-5.85GHz



ax160,bf_Nss1,(MCS0)_4TX

AV Power

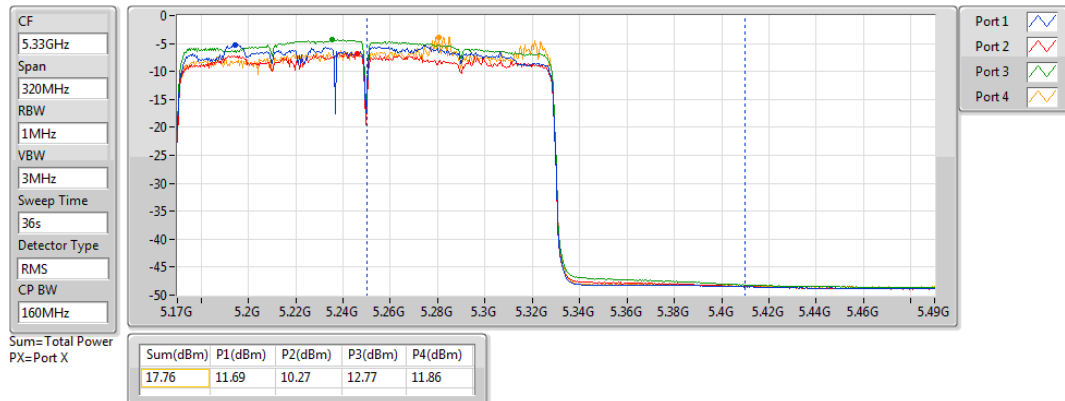
5250MHz Straddle 5.15-5.25GHz_TnomVnom



ax160,bf_Nss1,(MCS0)_4TX

AV Power

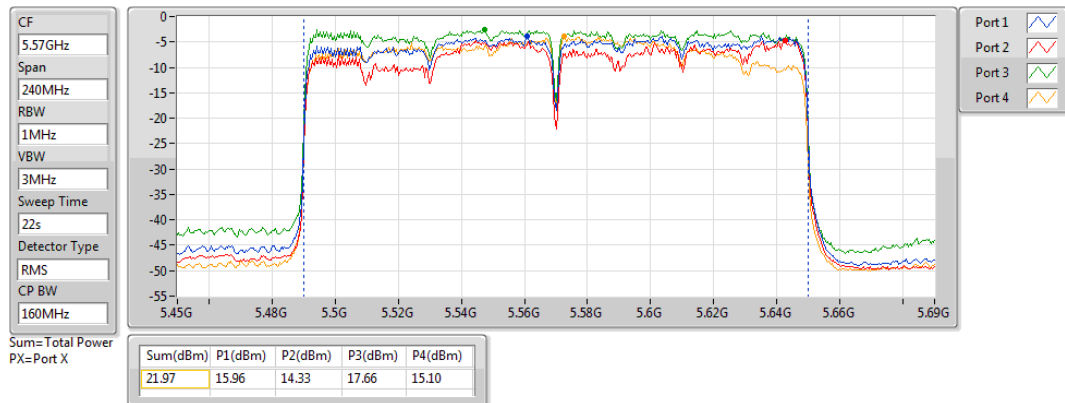
5250MHz Straddle 5.25-5.35GHz_TnomVnom



ax160,bf_Nss1,(MCS0)_4TX

AV Power

5570MHz_TnomVnom



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

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

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

3.4.2 Test Procedures

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

Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

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

For 5725 ~ 5850 MHz

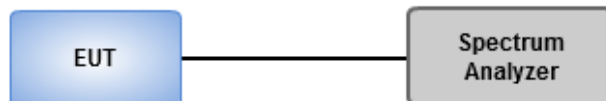
Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.99	22.51
802.11ax HEW20_Nss1,(MCS0)_4TX	15.52	22.04
802.11ax HEW40_Nss1,(MCS0)_4TX	11.78	18.30
802.11ax HEW80_Nss1,(MCS0)_4TX	1.02	7.54
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.61	5.91
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	9.81	16.83
802.11ax HEW20_Nss1,(MCS0)_4TX	9.49	16.51
802.11ax HEW40_Nss1,(MCS0)_4TX	6.34	13.36
802.11ax HEW80_Nss1,(MCS0)_4TX	2.49	9.51
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.65	6.37
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	9.32	16.84
802.11ax HEW20_Nss1,(MCS0)_4TX	8.73	16.25
802.11ax HEW40_Nss1,(MCS0)_4TX	5.93	13.45
802.11ax HEW80_Nss1,(MCS0)_4TX	3.23	10.75
802.11ax HEW160_Nss1,(MCS0)_4TX	0.16	7.68
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	14.16	21.93
802.11ax HEW20_Nss1,(MCS0)_4TX	12.58	20.35
802.11ax HEW40_Nss1,(MCS0)_4TX	10.10	17.87
802.11ax HEW80_Nss1,(MCS0)_4TX	6.77	14.54

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	Port 3 (dBm/R BW)	Port 4 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	7.41	6.25	6.43	6.45	12.62	16.48	19.14	23.00
5200MHz	Pass	6.52	10.79	9.69	9.57	9.84	15.99	16.48	22.51	23.00
5240MHz	Pass	6.52	10.75	9.40	9.56	9.81	15.90	16.48	22.42	23.00
5260MHz	Pass	7.02	3.81	3.16	3.91	4.18	9.78	9.98	16.80	17.00
5300MHz	Pass	7.02	3.65	3.10	3.89	4.50	9.81	9.98	16.83	17.00
5320MHz	Pass	7.02	3.42	2.83	3.71	4.33	9.60	9.98	16.62	17.00
5500MHz	Pass	7.52	3.85	3.67	2.89	2.79	9.32	9.48	16.84	17.00
5580MHz	Pass	7.52	3.90	3.61	2.74	2.92	9.30	9.48	16.82	17.00
5700MHz	Pass	7.52	3.80	3.12	3.12	3.03	9.25	9.48	16.77	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.52	3.57	3.07	2.98	2.91	9.12	9.48	16.64	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.77	2.25	1.21	1.27	1.22	7.52	28.23	15.29	36.00
5745MHz	Pass	7.77	8.86	7.49	8.34	8.02	14.16	28.23	21.93	36.00
5785MHz	Pass	7.77	8.69	7.44	8.26	7.93	14.06	28.23	21.83	36.00
5825MHz	Pass	7.77	8.61	7.53	8.18	7.95	14.06	28.23	21.83	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	6.90	5.62	5.28	5.76	11.86	16.48	18.38	23.00
5200MHz	Pass	6.52	10.38	8.83	9.11	9.02	15.38	16.48	21.90	23.00
5240MHz	Pass	6.52	10.23	9.02	9.16	9.53	15.52	16.48	22.04	23.00
5260MHz	Pass	7.02	3.29	2.65	3.48	3.72	9.24	9.98	16.26	17.00
5300MHz	Pass	7.02	3.31	2.75	3.55	4.04	9.40	9.98	16.42	17.00
5320MHz	Pass	7.02	3.32	2.79	3.61	4.26	9.49	9.98	16.51	17.00
5500MHz	Pass	7.52	2.95	3.19	2.21	2.21	8.65	9.48	16.17	17.00
5580MHz	Pass	7.52	2.91	2.87	2.08	2.18	8.51	9.48	16.03	17.00
5700MHz	Pass	7.52	3.17	2.54	2.76	2.54	8.73	9.48	16.25	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.52	1.30	1.75	1.39	1.67	7.49	9.48	15.01	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.77	0.40	-0.57	-0.03	-0.33	5.88	28.23	13.65	36.00
5745MHz	Pass	7.77	6.96	6.00	6.90	6.51	12.58	28.23	20.35	36.00
5785MHz	Pass	7.77	7.09	5.90	6.81	6.49	12.53	28.23	20.30	36.00
5825MHz	Pass	7.77	6.90	5.99	6.69	6.38	12.42	28.23	20.19	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.52	1.23	-0.96	0.72	-0.30	6.24	16.48	12.76	23.00
5230MHz	Pass	6.52	6.89	4.43	6.26	5.10	11.78	16.48	18.30	23.00
5270MHz	Pass	7.02	1.03	0.48	-0.30	-0.20	6.26	9.98	13.28	17.00
5310MHz	Pass	7.02	0.91	0.59	-0.25	0.10	6.34	9.98	13.36	17.00

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	Port 3 (dBm/R BW)	Port 4 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
5510MHz	Pass	7.52	0.17	-0.52	-0.48	-0.21	5.74	9.48	13.26	17.00
5590MHz	Pass	7.52	0.04	-0.83	-0.66	-0.29	5.56	9.48	13.08	17.00
5670MHz	Pass	7.52	0.81	-0.56	-0.61	-0.42	5.81	9.48	13.33	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.52	0.89	-0.44	-0.48	-0.25	5.93	9.48	13.45	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.77	-1.01	-2.45	-2.59	-2.33	3.93	28.23	11.70	36.00
5755MHz	Pass	7.77	4.38	3.92	4.33	3.84	10.10	28.23	17.87	36.00
5795MHz	Pass	7.77	4.34	3.95	4.12	3.87	10.08	28.23	17.85	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.52	-3.90	-4.79	-5.93	-5.63	1.02	16.48	7.54	23.00
5290MHz	Pass	7.02	-2.35	-3.56	-3.52	-4.72	2.49	9.98	9.51	17.00
5530MHz	Pass	7.52	-2.50	-2.59	-2.85	-3.24	3.23	9.48	10.75	17.00
5610MHz	Pass	7.52	-3.10	-3.10	-3.05	-2.98	2.93	9.48	10.45	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.52	-3.20	-3.25	-2.93	-2.89	2.96	9.48	10.48	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.77	-5.49	-5.79	-5.67	-5.32	0.44	28.23	8.21	36.00
5775MHz	Pass	7.77	1.04	0.68	0.64	0.75	6.77	28.23	14.54	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.52	-6.53	-7.93	-5.06	-7.37	-0.61	16.48	5.91	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	7.02	-6.65	-7.96	-5.17	-7.32	-0.65	9.98	6.37	17.00
5570MHz	Pass	7.52	-5.62	-7.10	-4.41	-6.53	0.16	9.48	7.68	17.00

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

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

Note

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. 5150-5250 MHz
Directional gain = $0.5 + 10 * \log(4/1) = 6.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $17 \text{ dBm} - (6.52 \text{ dBi} - 6 \text{ dBi}) = 16.48 \text{ dBm}$.

5250-5350 MHz

Directional gain = $1 + 10 * \log(4/1) = 7.02 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (7.02 \text{ dBi} - 6 \text{ dBi}) = 9.98 \text{ dBm}$.

5470-5750 MHz

Directional gain = $1.5 + 10 * \log(4/1) = 7.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (7.52 \text{ dBi} - 6 \text{ dBi}) = 9.48 \text{ dBm}$.

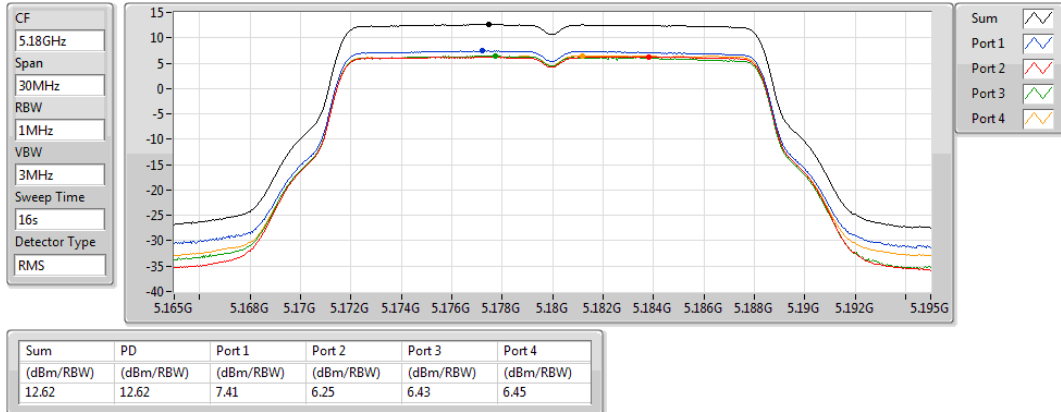
5725-5850 MHz

Directional gain = $1.75 + 10 * \log(4/1) = 7.77 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (7.77 \text{ dBi} - 6 \text{ dBi}) = 28.23 \text{ dBm}$.

802.11a_Nss1,(6Mbps)_4TX

PSD

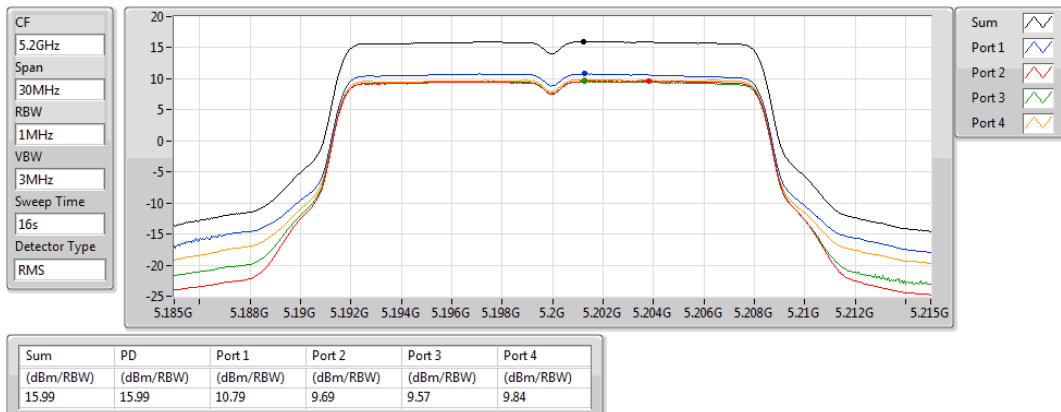
5180MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

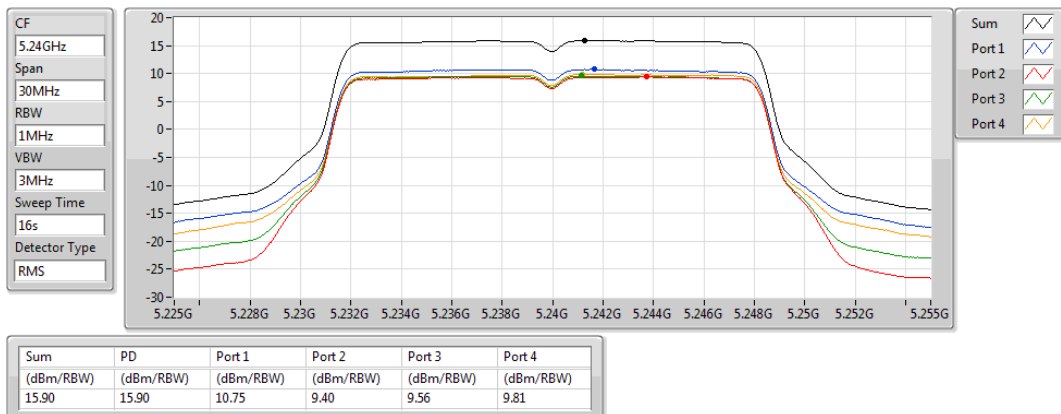
5200MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

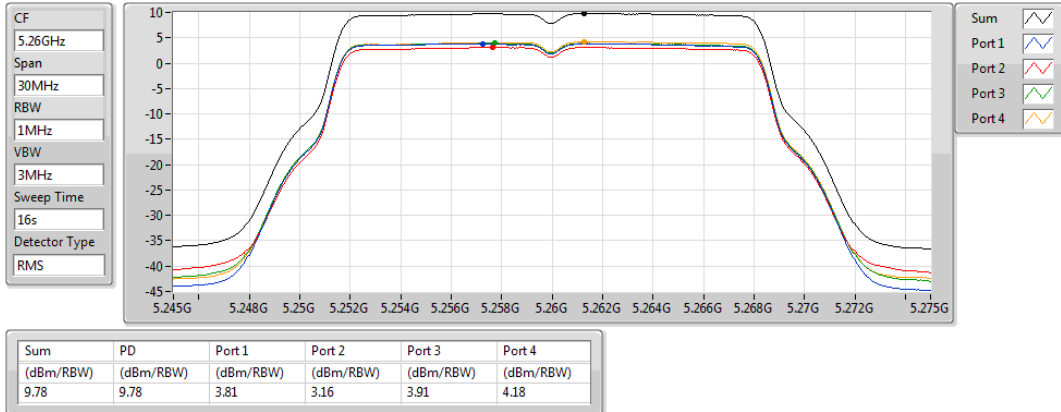
5240MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

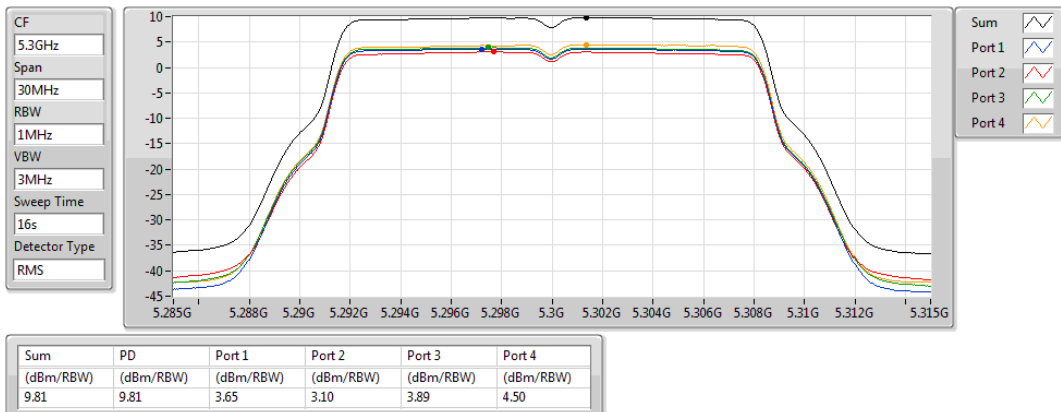
5260MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

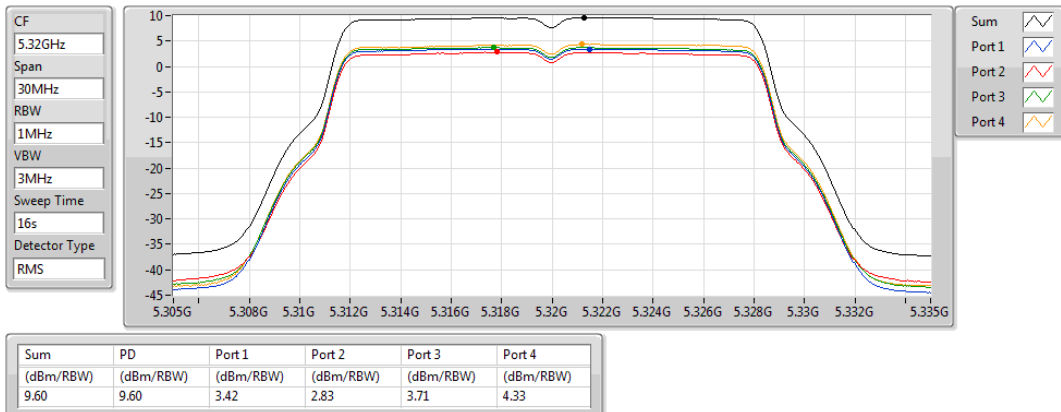
5300MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

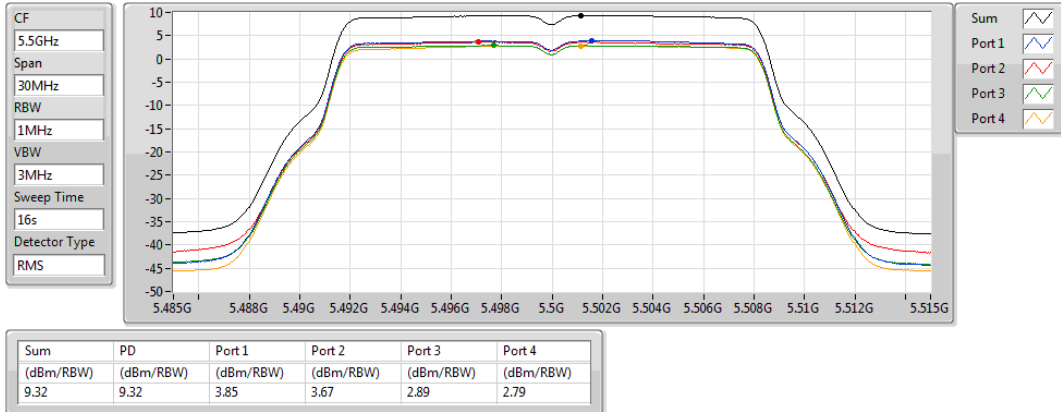
5320MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

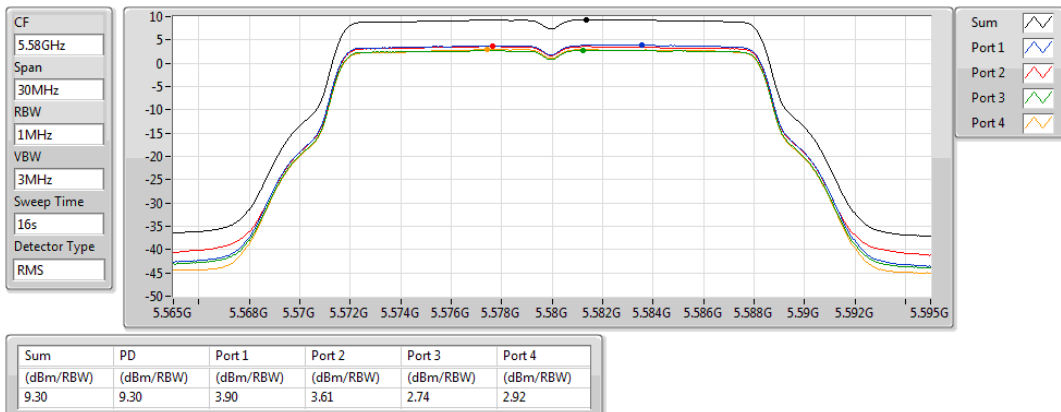
5500MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

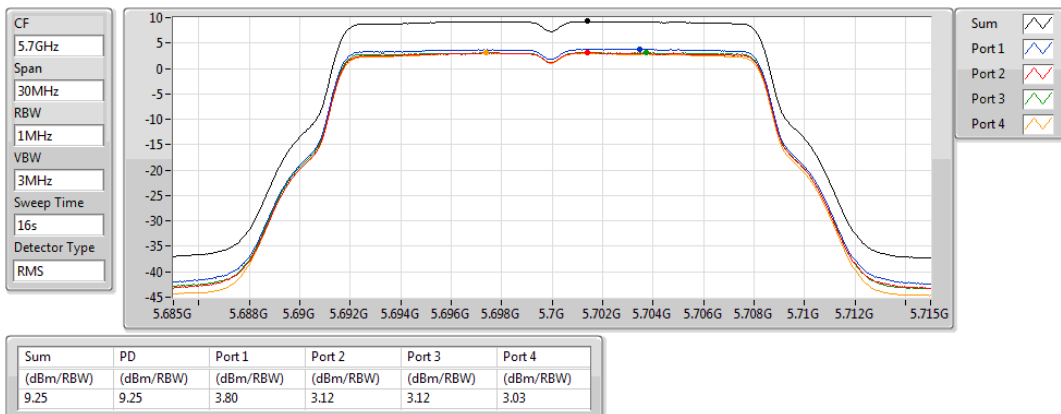
5580MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

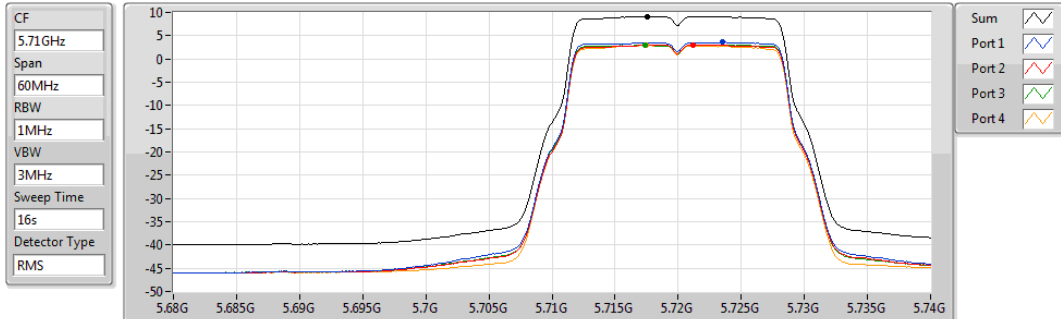
5700MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

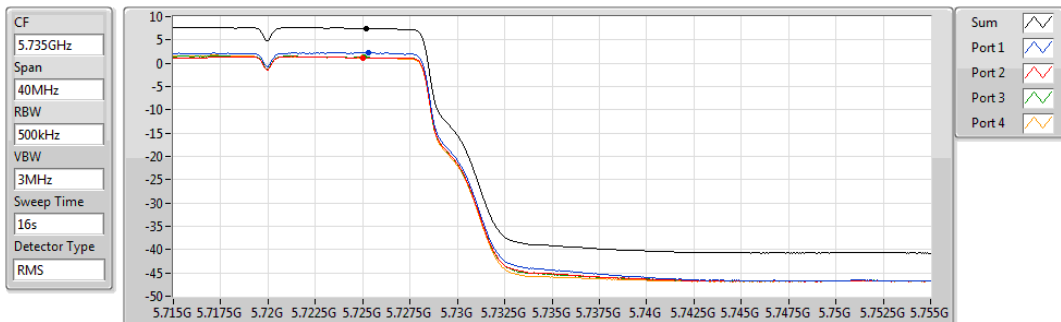


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.12	9.12	3.57	3.07	2.98	2.91

802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

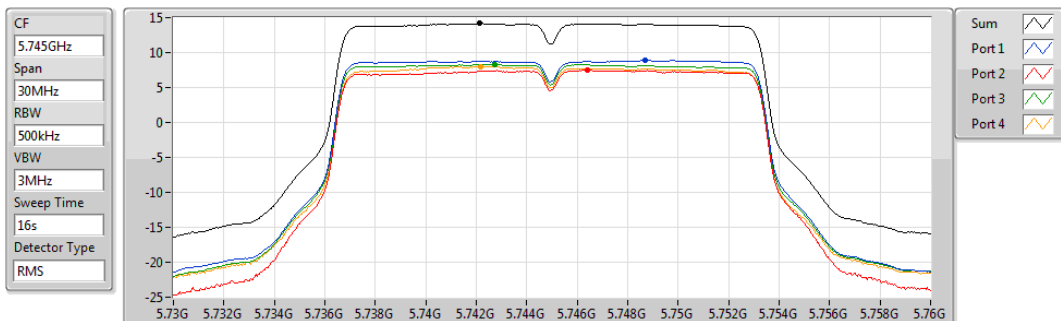


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.52	7.52	2.25	1.21	1.27	1.22

802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz

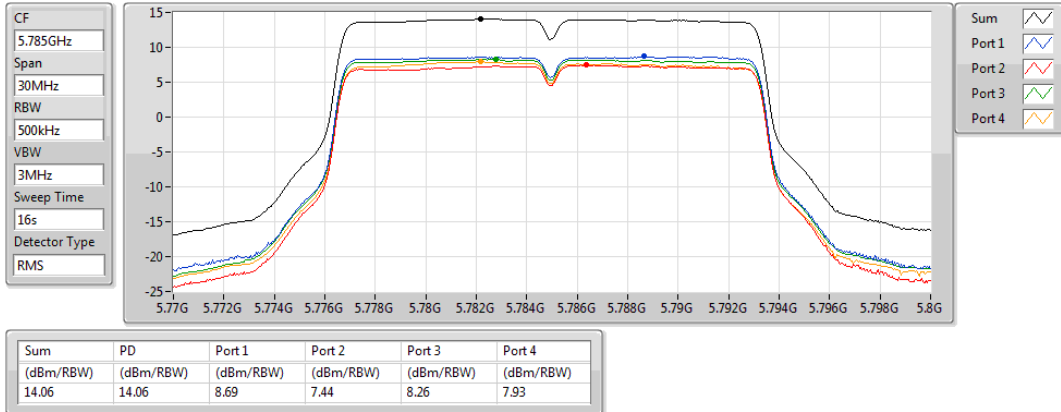


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.16	14.16	8.86	7.49	8.34	8.02

802.11a_Nss1,(6Mbps)_4TX

PSD

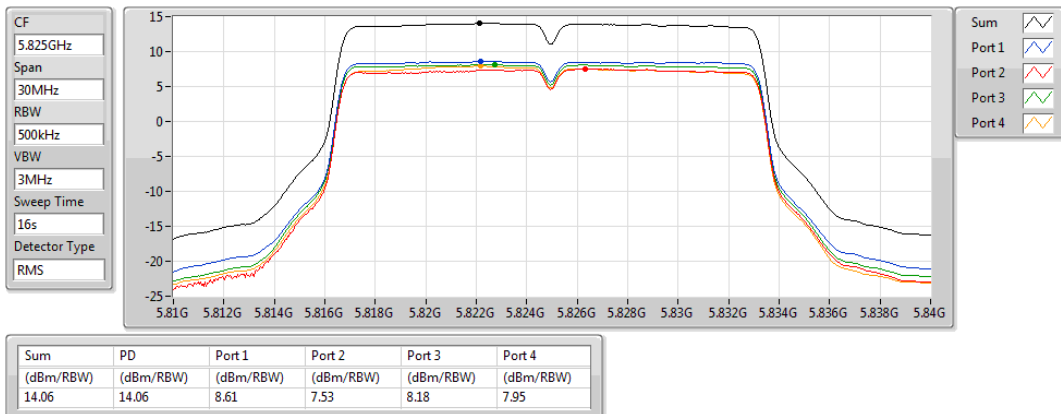
5785MHz



802.11a_Nss1,(6Mbps)_4TX

PSD

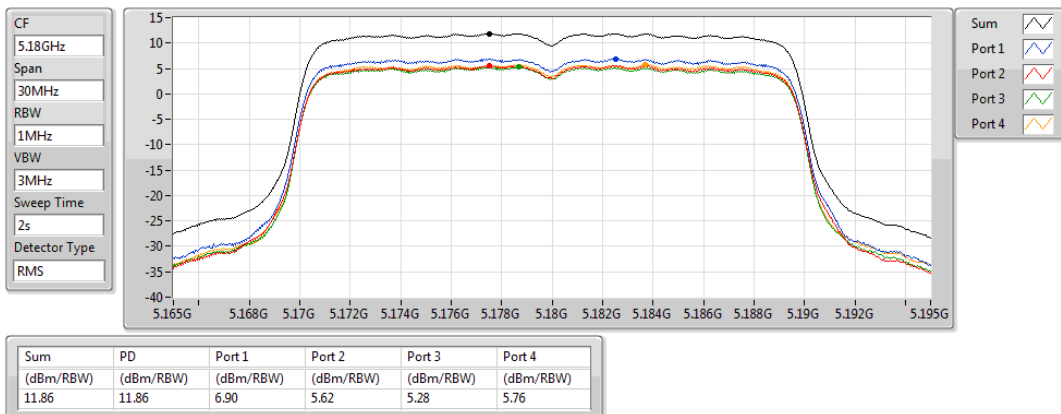
5825MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

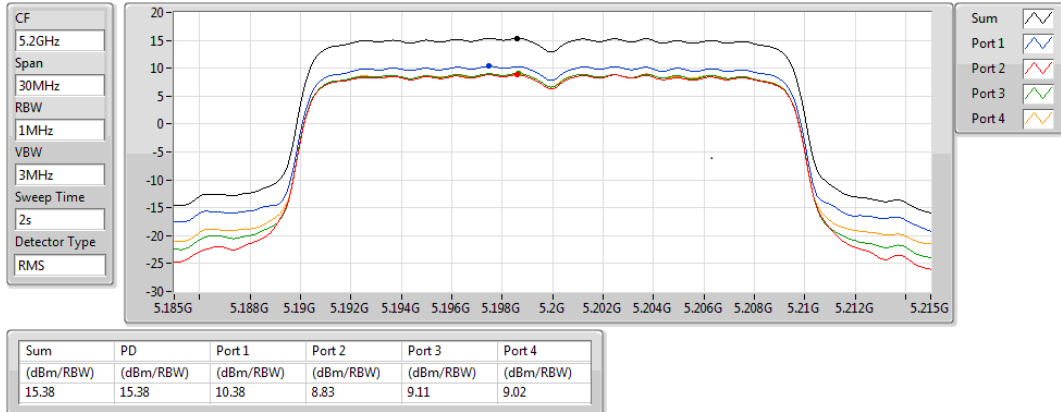
5180MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

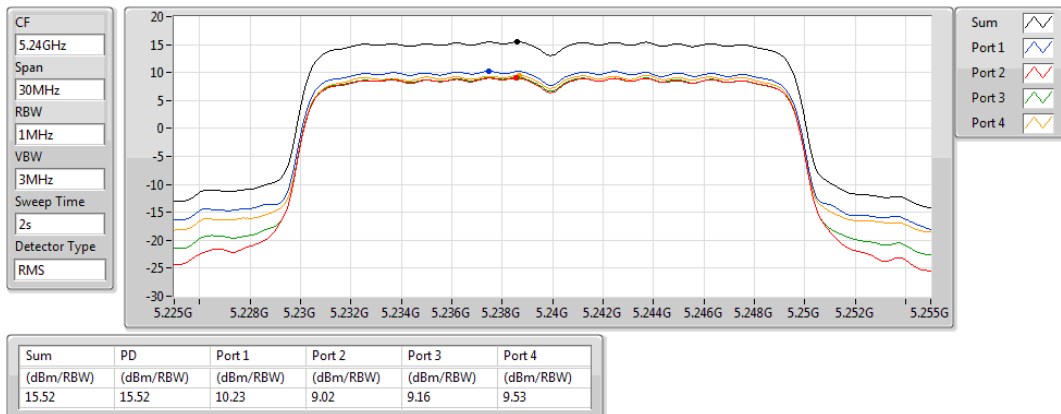
5200MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

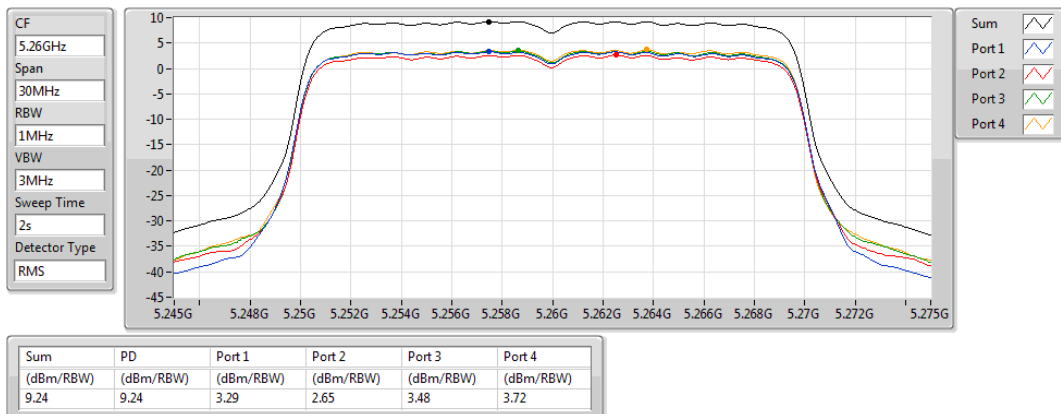
5240MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

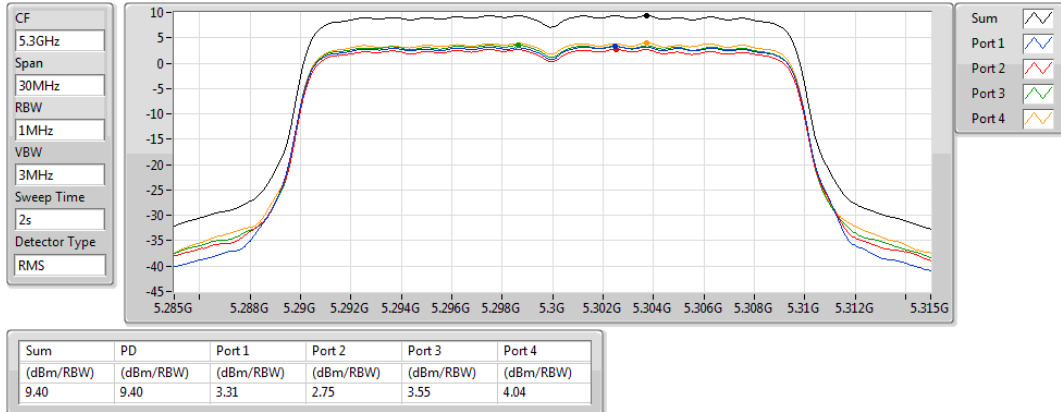
5260MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

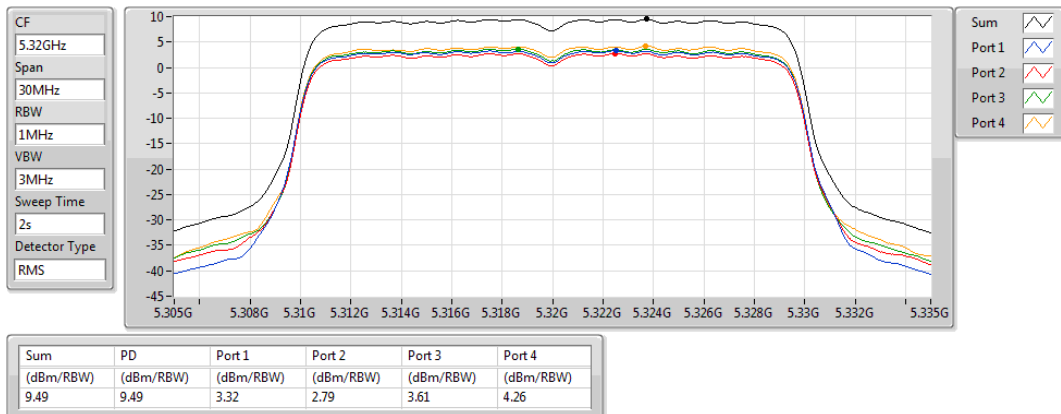
5300MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

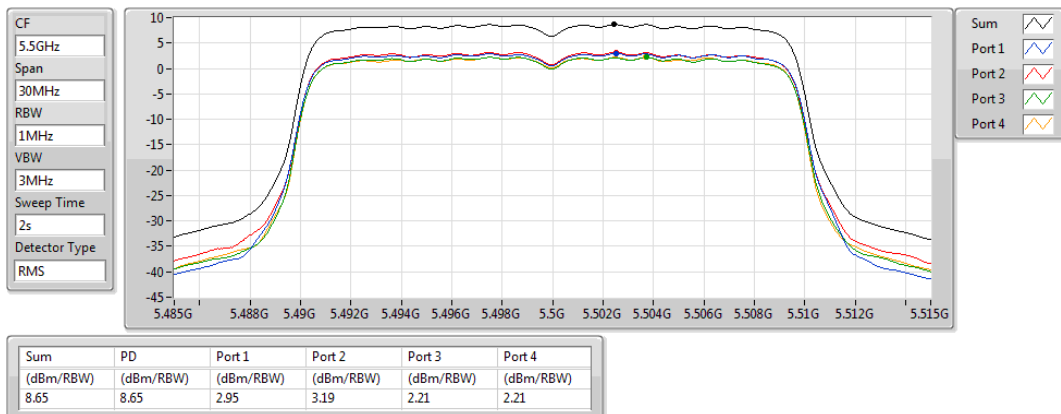
5320MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

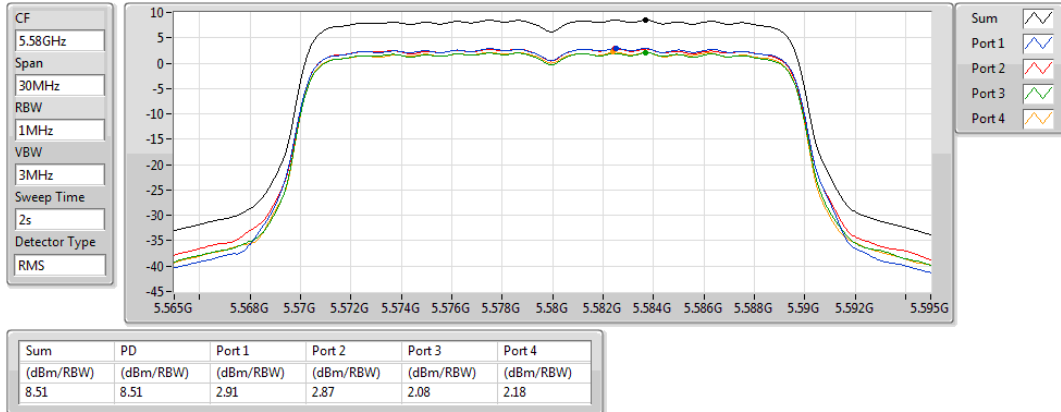
5500MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

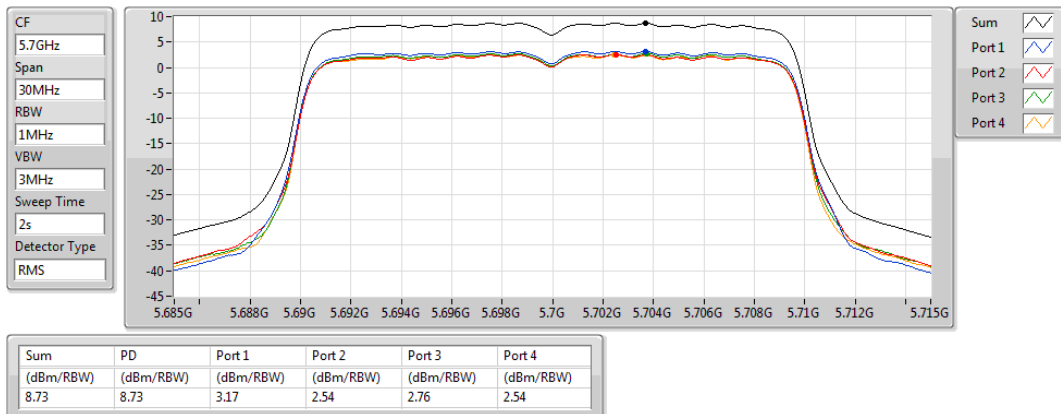
5580MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

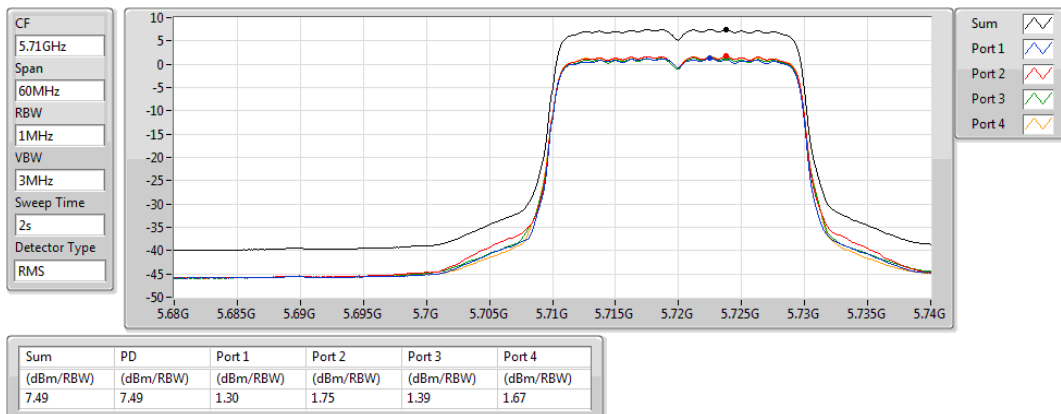
5700MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

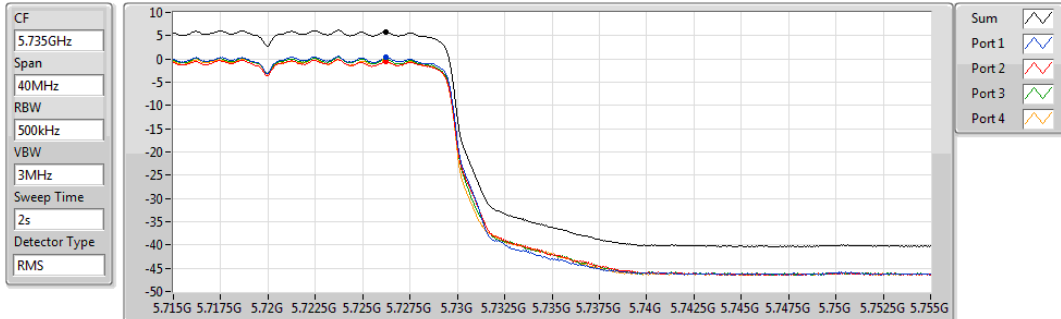
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

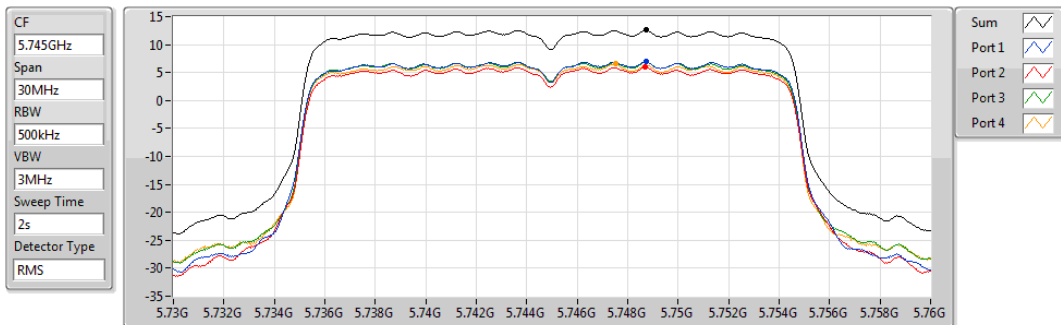


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.88	5.88	0.40	-0.57	-0.03	-0.33

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

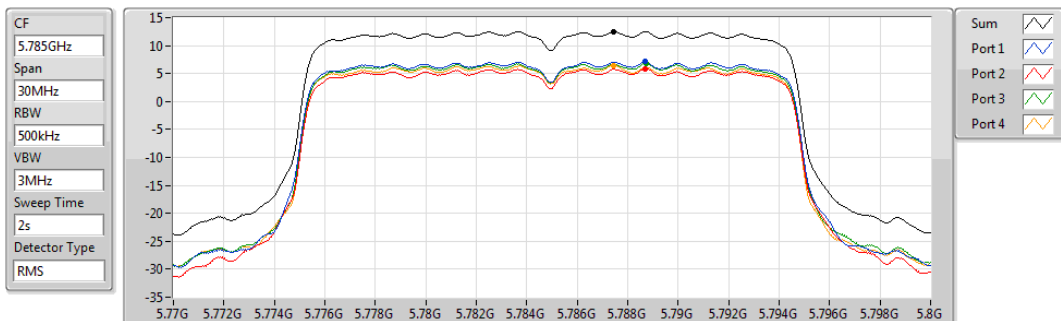


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.58	12.58	6.96	6.00	6.90	6.51

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

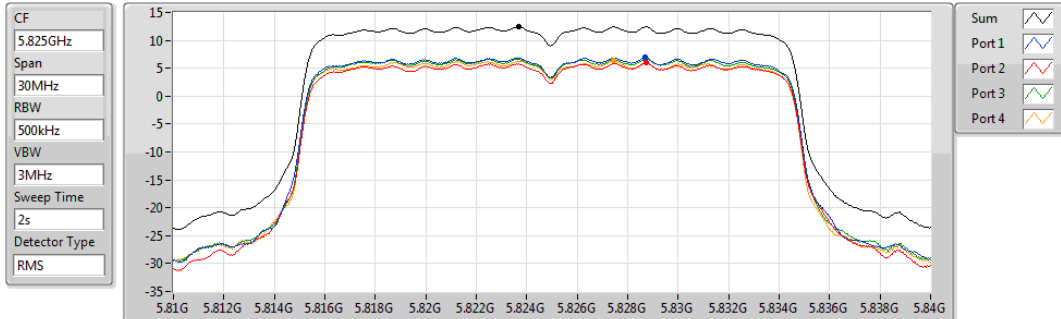


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.53	12.53	7.09	5.90	6.81	6.49

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

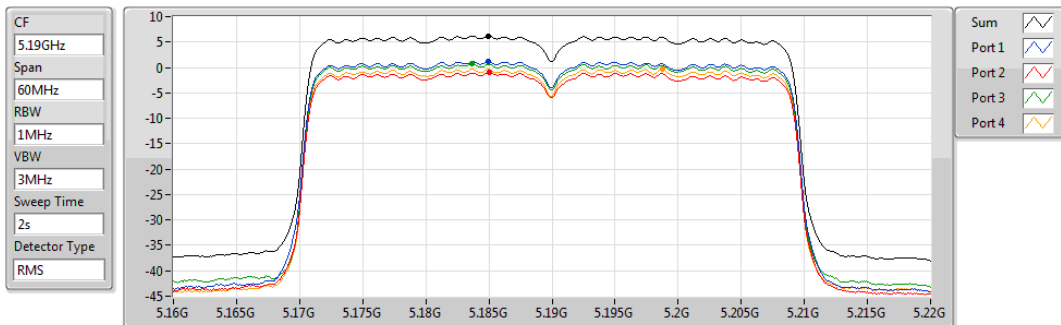


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
12.42	12.42	6.90	5.99	6.69	6.38

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

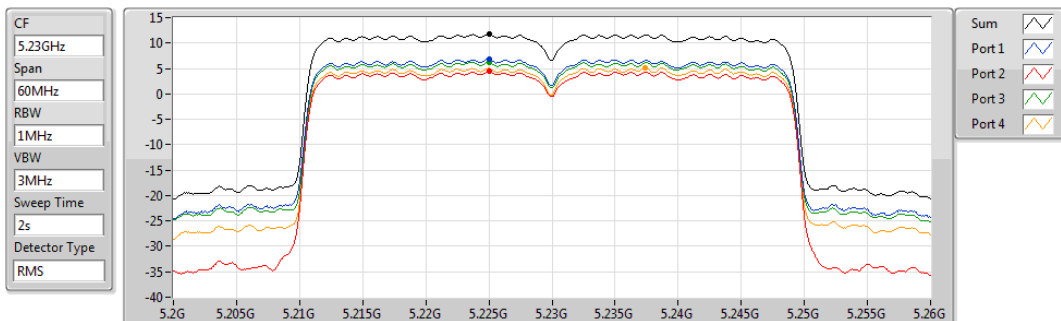


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
6.24	6.24	1.23	-0.96	0.72	-0.30

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

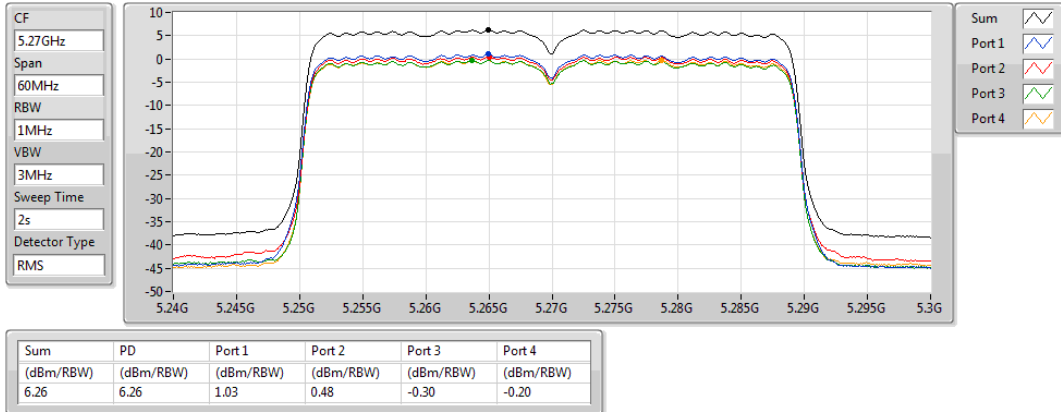


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
11.78	11.78	6.89	4.43	6.26	5.10

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

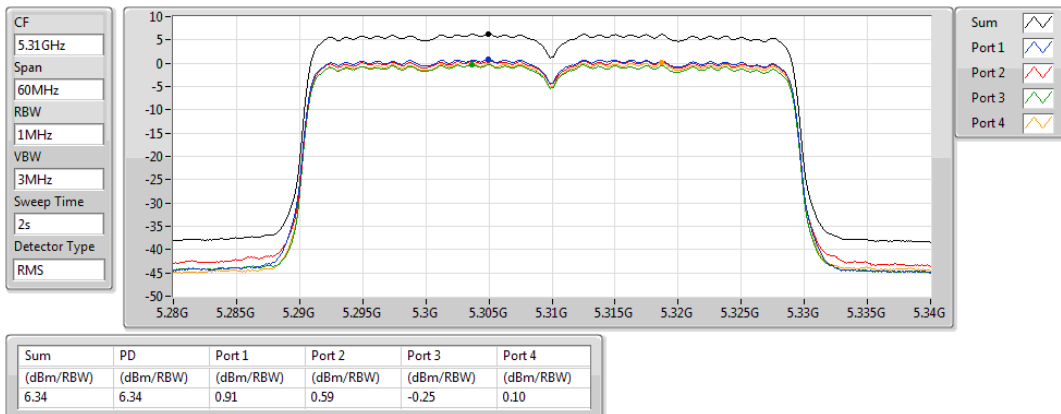
5270MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

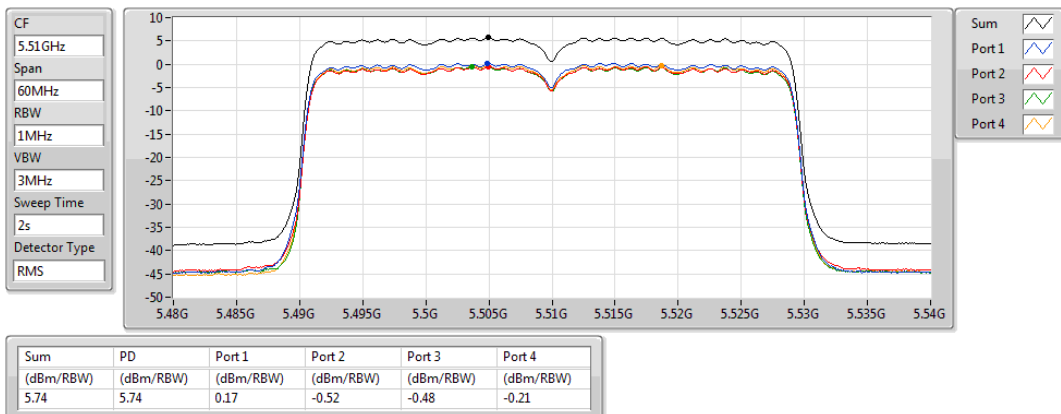
5310MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

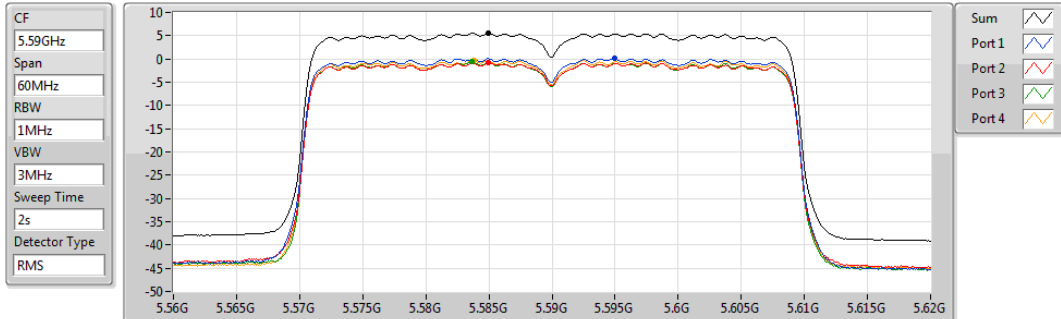
5510MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5590MHz

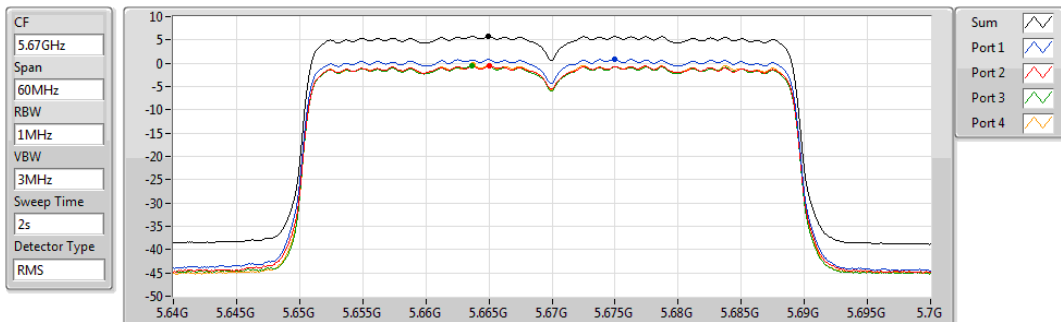


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.56	5.56	0.04	-0.83	-0.66	-0.29

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

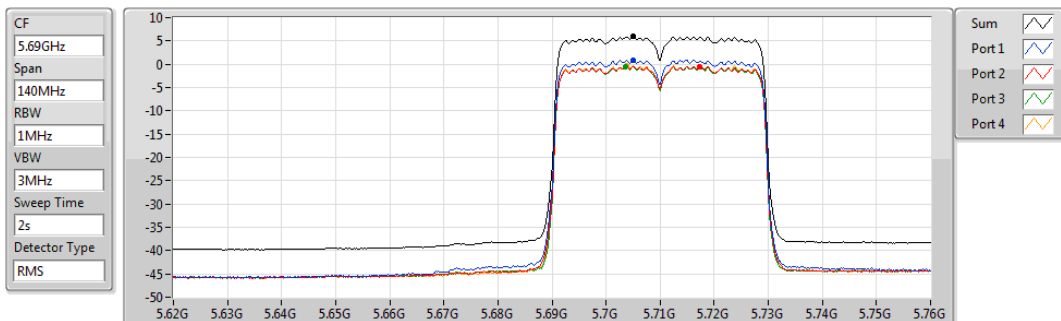


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.81	5.81	0.81	-0.56	-0.61	-0.42

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

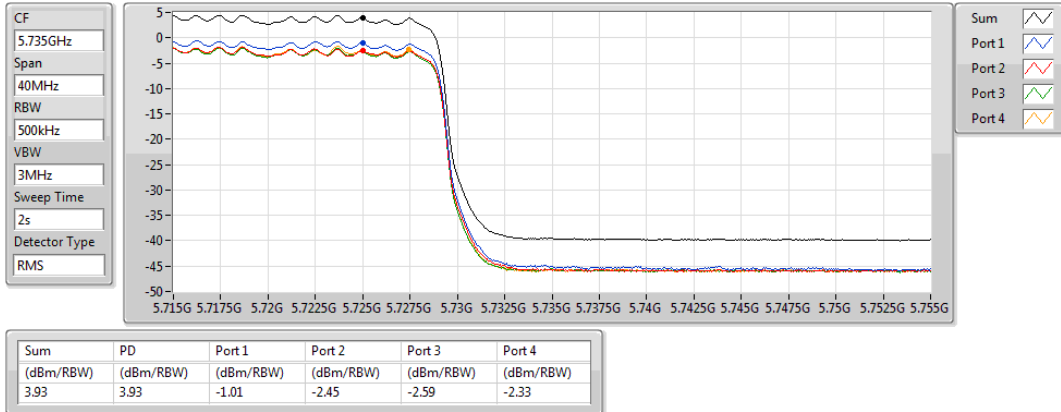


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.93	5.93	0.89	-0.44	-0.48	-0.25

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

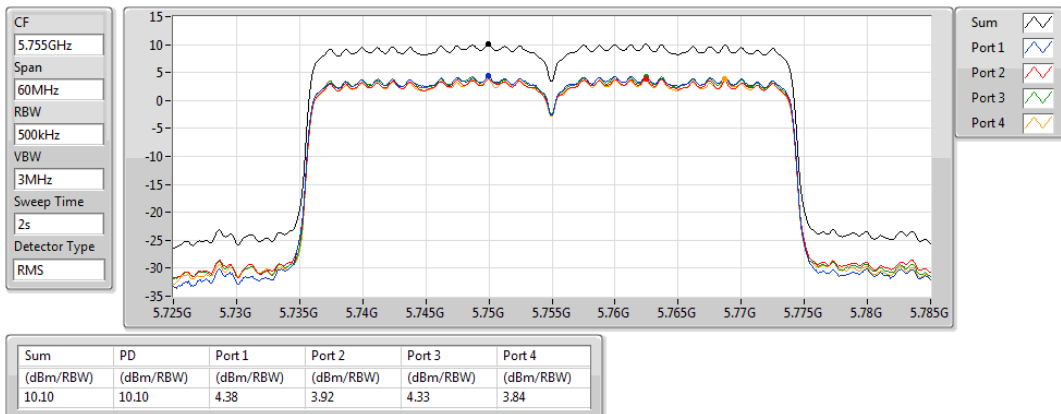
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

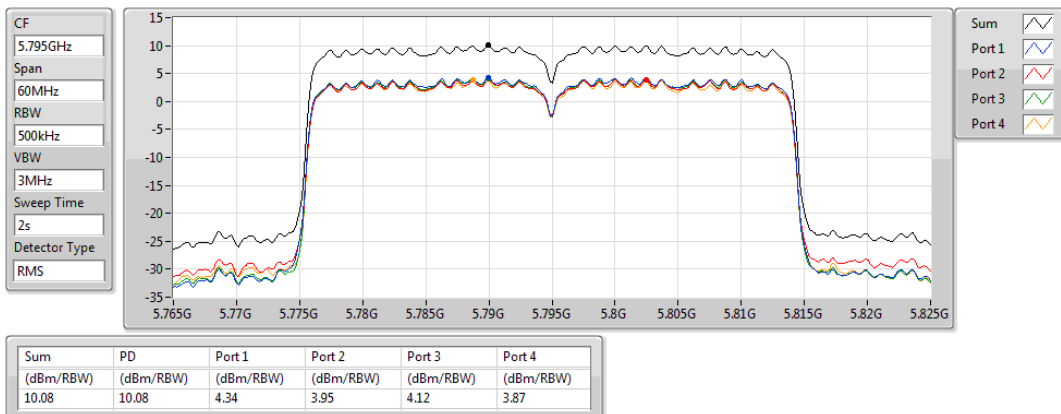
5755MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

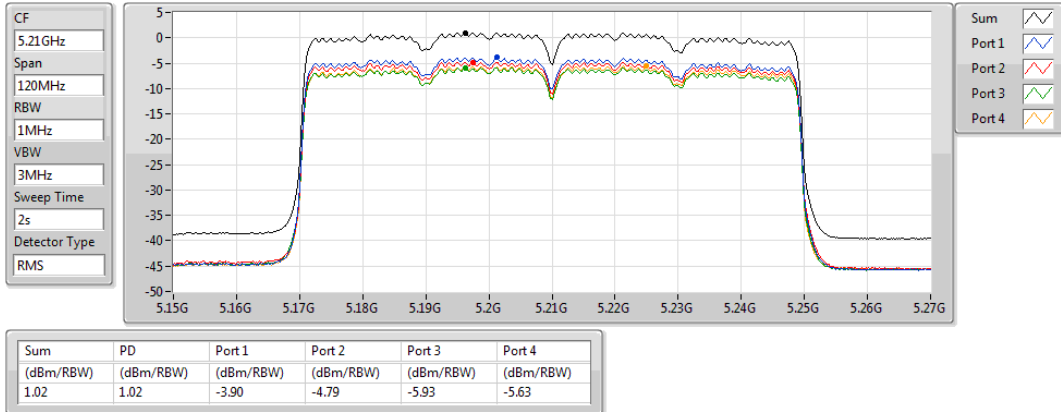
5795MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

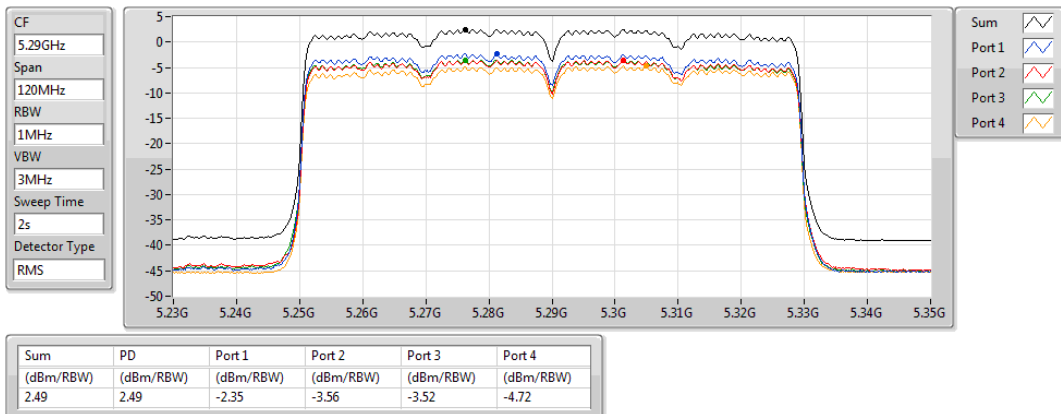
5210MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

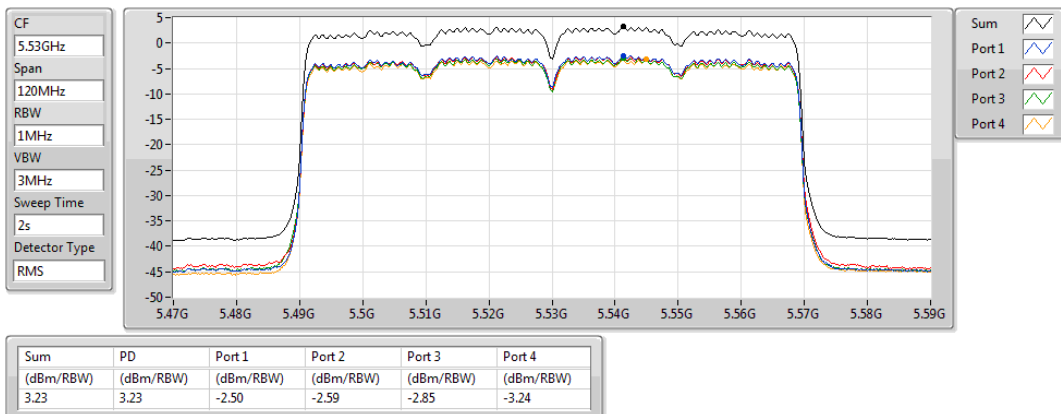
5290MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

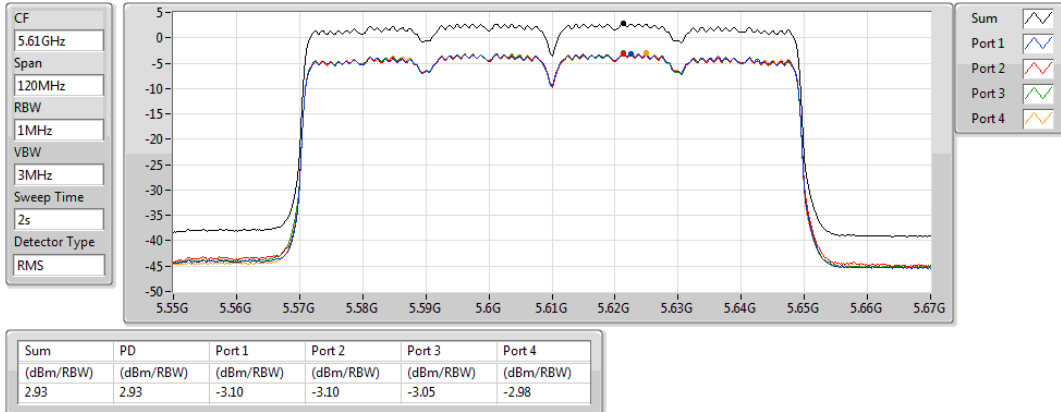
5530MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

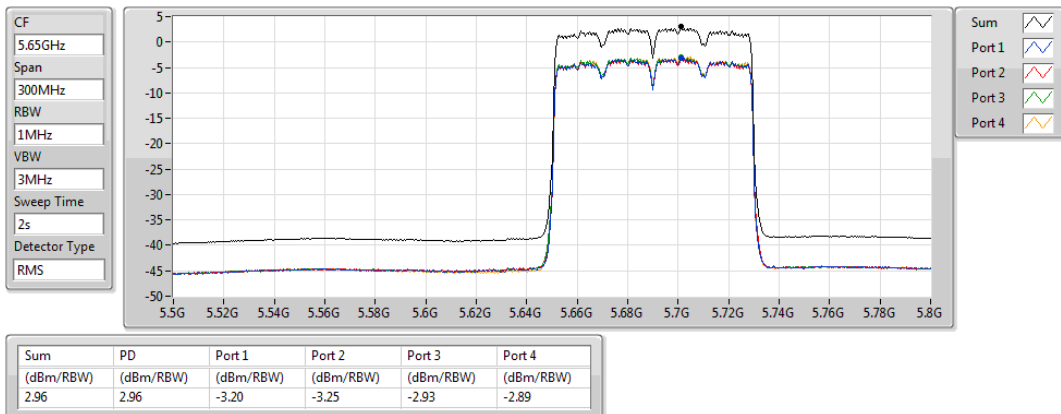
5610MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

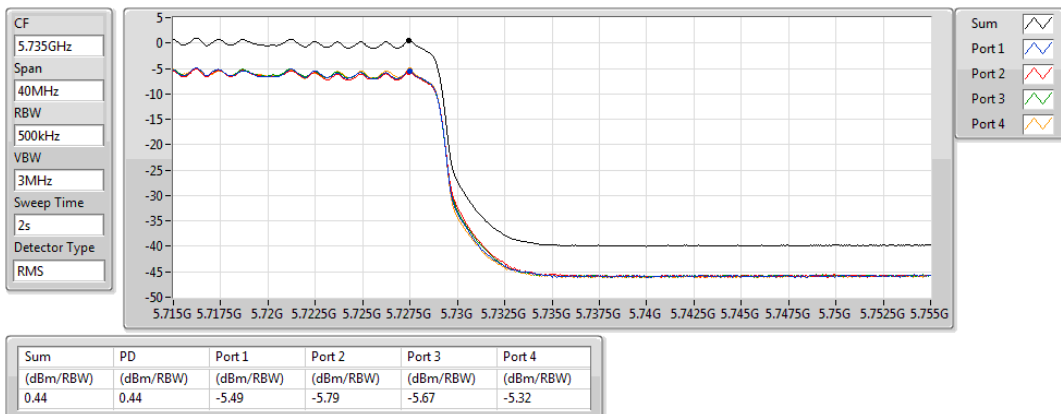
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

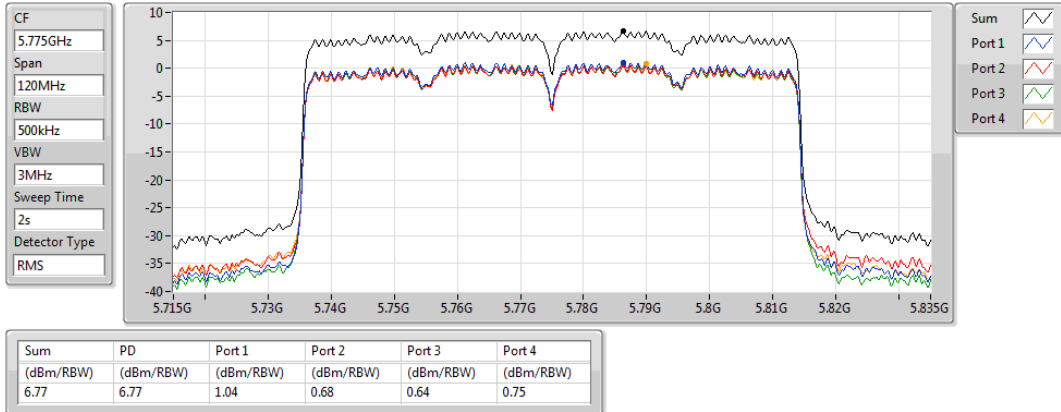
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

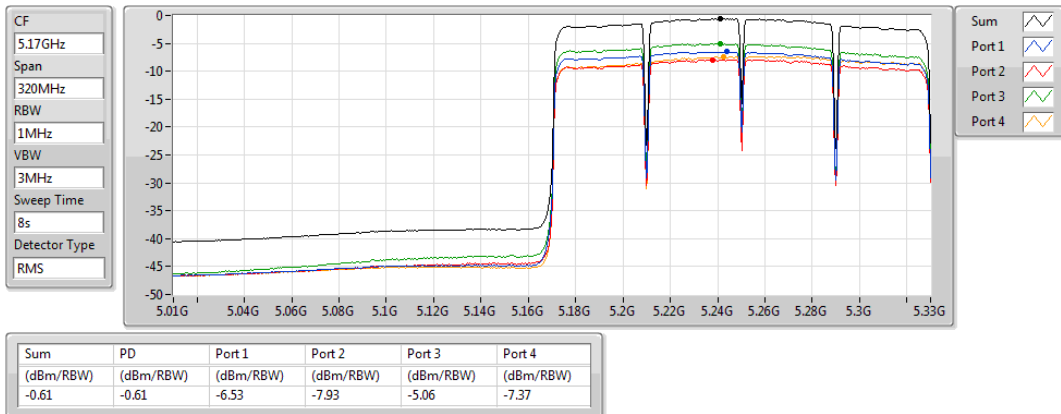
5775MHz



802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

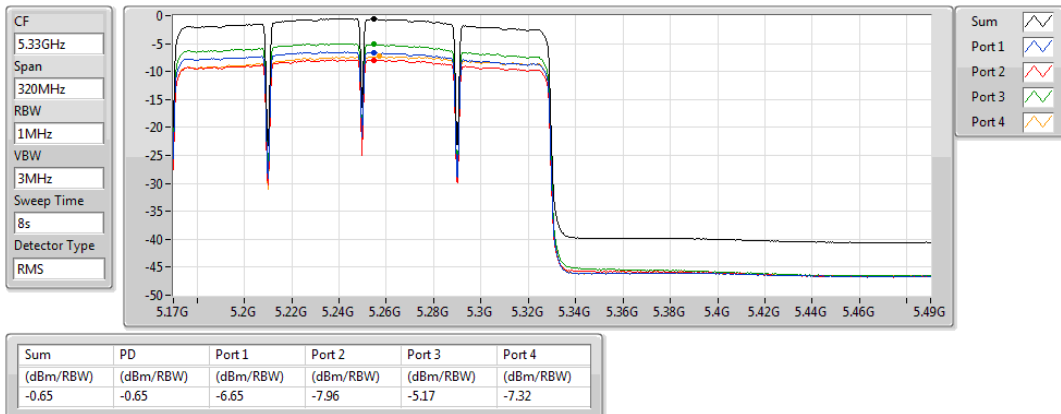
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

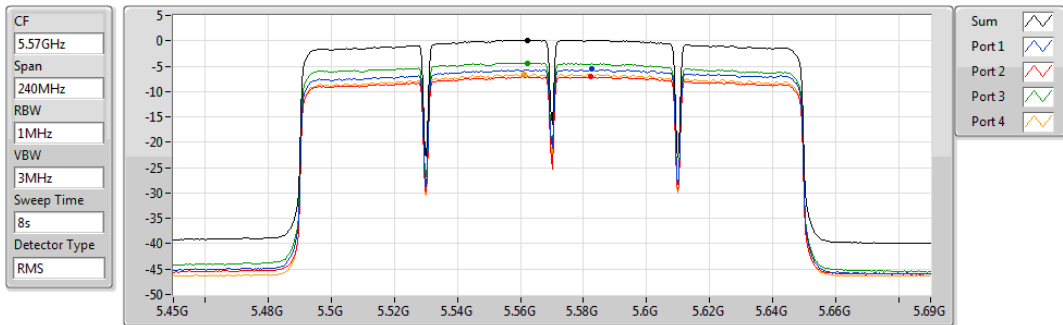
5250MHz Straddle 5.25-5.35GHz



802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.16	0.16	-5.62	-7.10	-4.41	-6.53

Beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
ax20,bf_Nss1,(MCS0)_4TX	15.12	21.64
ax40,bf_Nss1,(MCS0)_4TX	11.15	17.67
ax80,bf_Nss1,(MCS0)_4TX	0.68	7.20
ax160,bf_Nss1,(MCS0)_4TX	-1.86	4.66
5.25-5.35GHz	-	-
ax20,bf_Nss1,(MCS0)_4TX	8.92	15.94
ax40,bf_Nss1,(MCS0)_4TX	5.96	12.98
ax80,bf_Nss1,(MCS0)_4TX	2.12	9.14
ax160,bf_Nss1,(MCS0)_4TX	-1.06	5.96
5.47-5.725GHz	-	-
ax20,bf_Nss1,(MCS0)_4TX	8.00	15.52
ax40,bf_Nss1,(MCS0)_4TX	5.76	13.28
ax80,bf_Nss1,(MCS0)_4TX	3.15	10.67
ax160,bf_Nss1,(MCS0)_4TX	-4.22	3.30
5.725-5.85GHz	-	-
ax20,bf_Nss1,(MCS0)_4TX	12.24	20.01
ax40,bf_Nss1,(MCS0)_4TX	9.50	17.27
ax80,bf_Nss1,(MCS0)_4TX	6.21	13.98

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	Port 3 (dBm/R BW)	Port 4 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
ax20,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	7.32	5.22	4.62	6.07	11.52	16.48	18.04	23.00
5200MHz	Pass	6.52	11.17	9.37	8.32	8.97	15.12	16.48	21.64	23.00
5240MHz	Pass	6.52	10.62	8.21	9.21	8.32	14.87	16.48	21.39	23.00
5260MHz	Pass	7.02	3.02	2.25	2.95	3.12	8.50	9.98	15.52	17.00
5300MHz	Pass	7.02	3.72	2.05	3.11	4.08	8.92	9.98	15.94	17.00
5320MHz	Pass	7.02	2.68	2.40	3.68	3.33	8.70	9.98	15.72	17.00
5500MHz	Pass	7.52	3.31	3.27	2.11	2.30	8.00	9.48	15.52	17.00
5580MHz	Pass	7.52	3.07	2.32	1.83	1.69	7.91	9.48	15.43	17.00
5700MHz	Pass	7.52	3.16	2.01	2.27	1.75	7.85	9.48	15.37	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.52	2.31	1.79	1.60	0.98	7.42	9.48	14.94	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.77	-0.11	-1.05	-0.04	-1.45	5.11	28.23	12.88	36.00
5745MHz	Pass	7.77	7.09	6.01	6.86	6.36	12.24	28.23	20.01	36.00
5785MHz	Pass	7.77	7.39	6.07	6.85	6.90	12.19	28.23	19.96	36.00
5825MHz	Pass	7.77	7.28	7.08	6.72	5.78	12.13	28.23	19.90	36.00
ax40,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.52	2.84	-0.79	0.75	0.40	6.67	16.48	13.19	23.00
5230MHz	Pass	6.52	7.39	4.59	5.35	4.80	11.15	16.48	17.67	23.00
5270MHz	Pass	7.02	0.98	0.29	-0.28	-0.17	5.82	9.98	12.84	17.00
5310MHz	Pass	7.02	1.34	1.02	-0.74	0.09	5.96	9.98	12.98	17.00
5510MHz	Pass	7.52	1.53	0.02	-0.88	0.23	5.76	9.48	13.28	17.00
5590MHz	Pass	7.52	1.11	0.15	-0.02	-0.90	5.65	9.48	13.17	17.00
5670MHz	Pass	7.52	1.41	-0.18	-0.26	-1.07	5.58	9.48	13.10	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.52	1.18	-0.34	-0.53	-0.61	5.48	9.48	13.00	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.77	-1.59	-2.15	-2.89	-3.87	3.37	28.23	11.14	36.00
5755MHz	Pass	7.77	4.21	3.21	3.96	2.66	9.25	28.23	17.02	36.00
5795MHz	Pass	7.77	4.54	3.33	3.97	2.67	9.50	28.23	17.27	36.00
ax80,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.52	-3.19	-4.26	-5.45	-5.47	0.68	16.48	7.20	23.00
5290MHz	Pass	7.02	-2.04	-4.14	-2.73	-4.13	2.12	9.98	9.14	17.00
5530MHz	Pass	7.52	-1.41	-1.98	-2.71	-3.35	3.15	9.48	10.67	17.00
5610MHz	Pass	7.52	-1.50	-2.67	-3.36	-3.65	2.52	9.48	10.04	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.52	-2.48	-2.41	-3.22	-3.38	2.59	9.48	10.11	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.77	-5.20	-6.64	-6.14	-5.65	-0.05	28.23	7.72	36.00
5775MHz	Pass	7.77	2.09	2.18	0.12	-0.34	6.21	28.23	13.98	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	Port 3 (dBm/R BW)	Port 4 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
ax160,bf_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.52	-6.59	-8.33	-6.02	-8.65	-1.86	16.48	4.66	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	7.02	-6.55	-8.52	-6.19	-5.01	-1.06	9.98	5.96	17.00
5570MHz	Pass	7.52	-9.01	-10.66	-8.11	-10.50	-4.22	9.48	3.30	17.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

Note

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. 5150-5250 MHz
Directional gain = $0.5 + 10 * \log(4/1) = 6.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $17 \text{ dBm} - (6.52 \text{ dBi} - 6 \text{ dBi}) = 16.48 \text{ dBm}$.

5250-5350 MHz

Directional gain = $1 + 10 * \log(4/1) = 7.02 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (7.02 \text{ dBi} - 6 \text{ dBi}) = 9.98 \text{ dBm}$.

5470-5750 MHz

Directional gain = $1.5 + 10 * \log(4/1) = 7.52 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (7.52 \text{ dBi} - 6 \text{ dBi}) = 9.48 \text{ dBm}$.

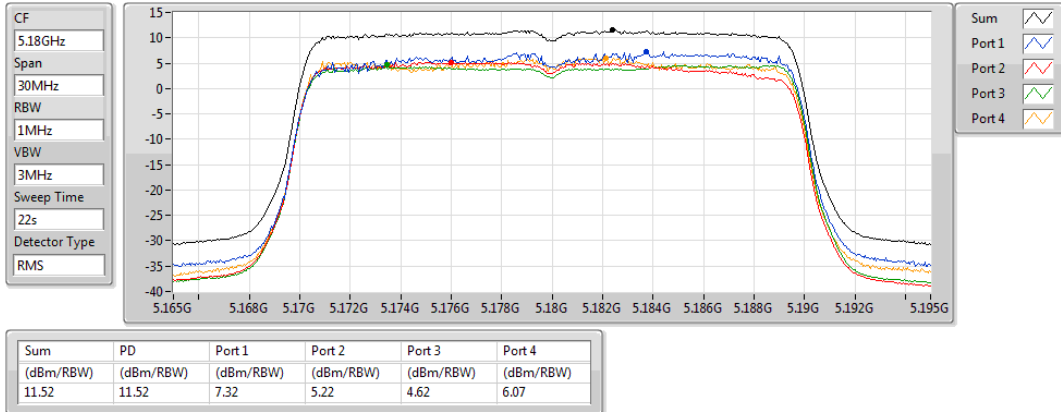
5725-5850 MHz

Directional gain = $1.75 + 10 * \log(4/1) = 7.77 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (7.77 \text{ dBi} - 6 \text{ dBi}) = 28.23 \text{ dBm}$.

ax20,bf_Nss1,(MCS0)_4TX

PSD

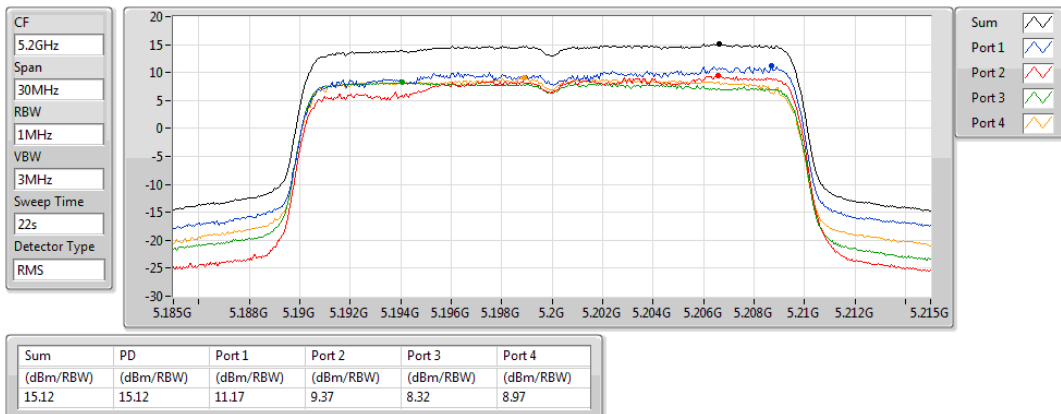
5180MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

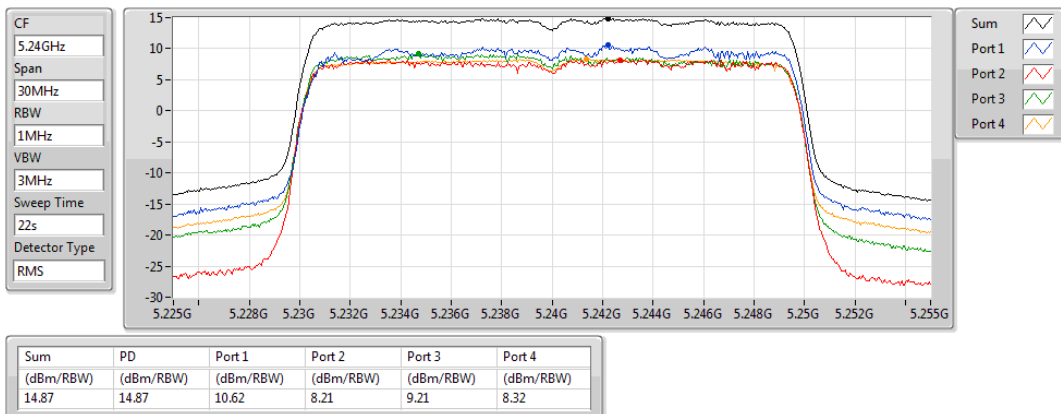
5200MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

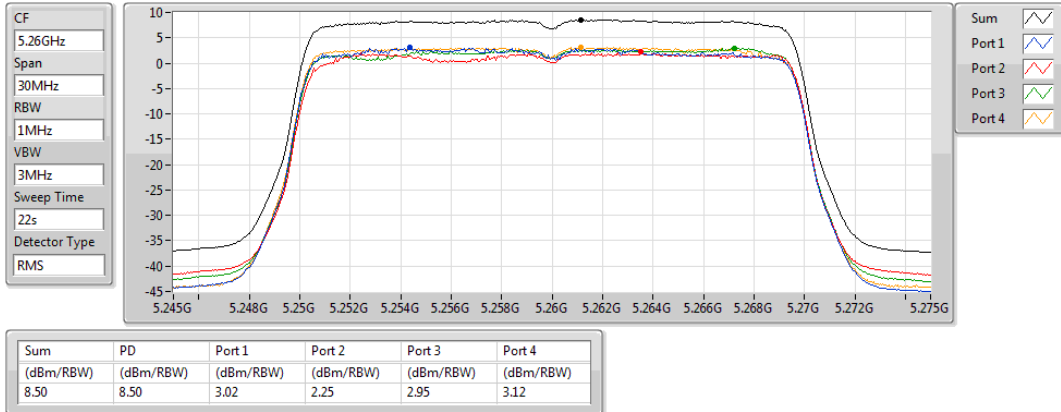
5240MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

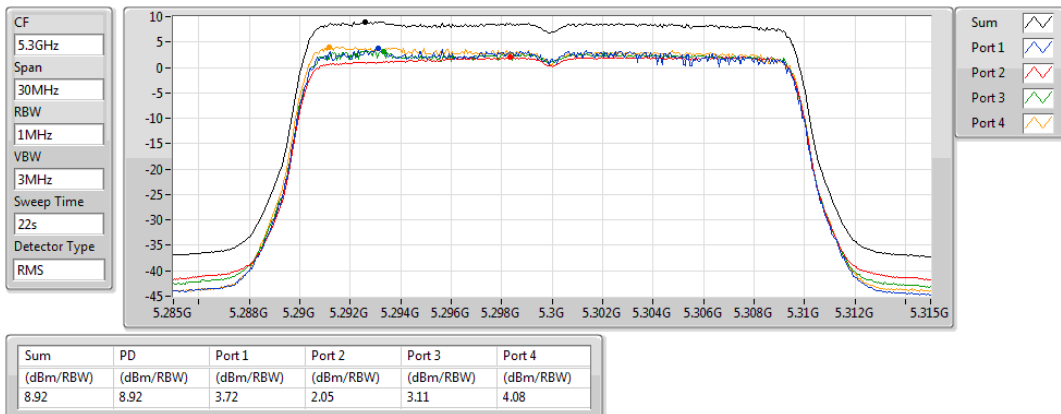
5260MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

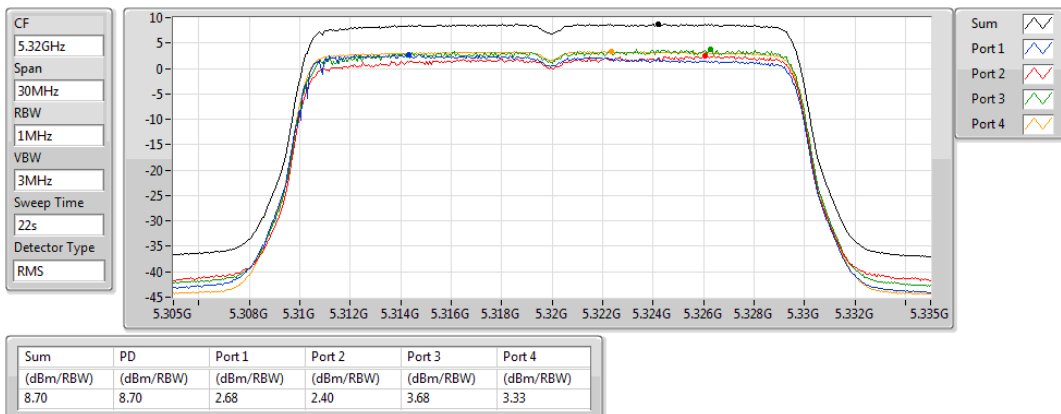
5300MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

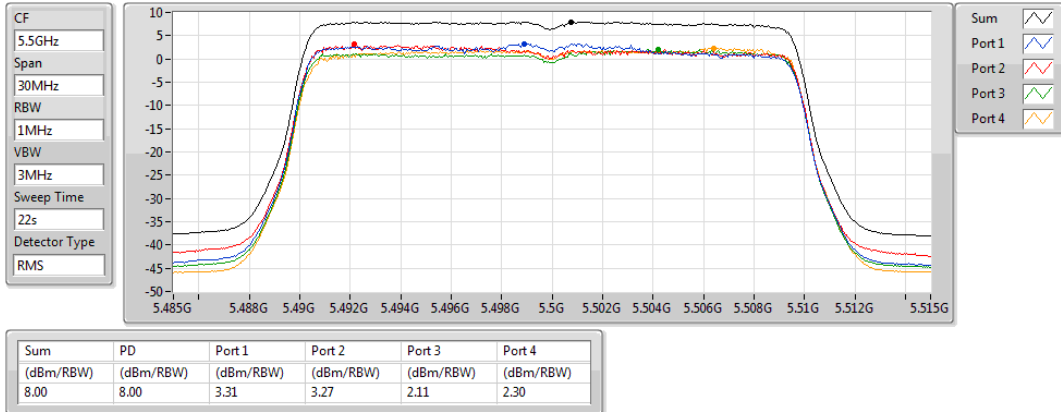
5320MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

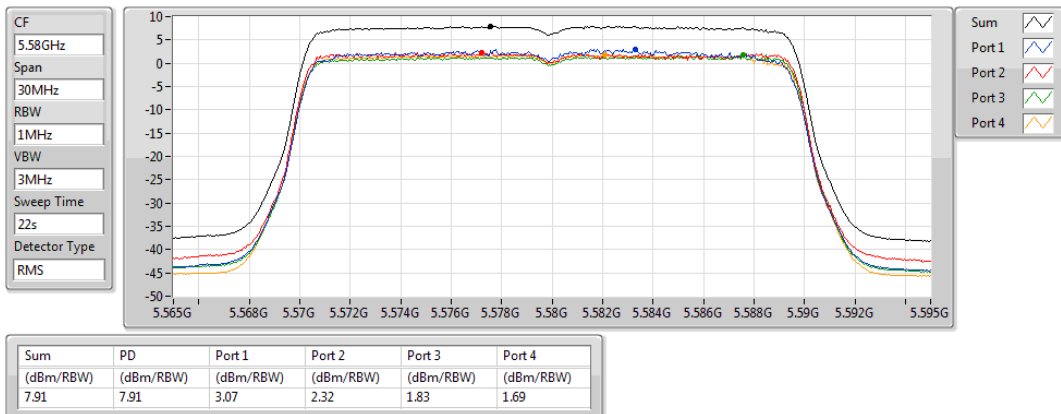
5500MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

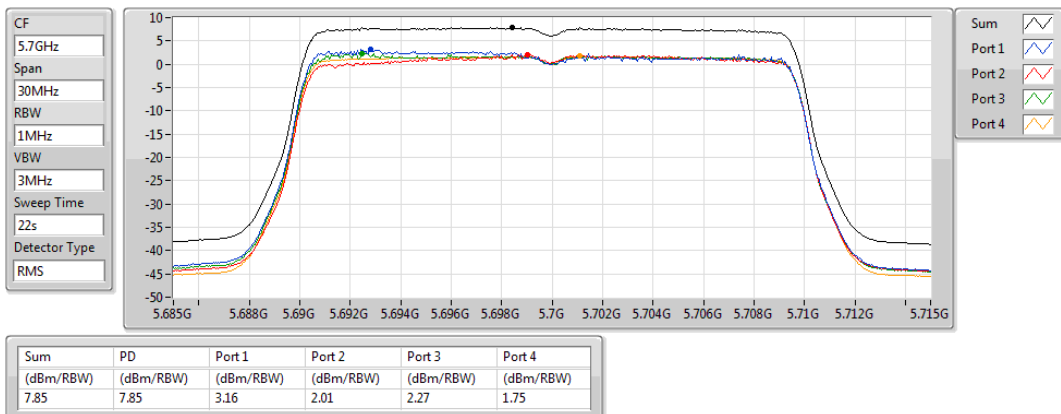
5580MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

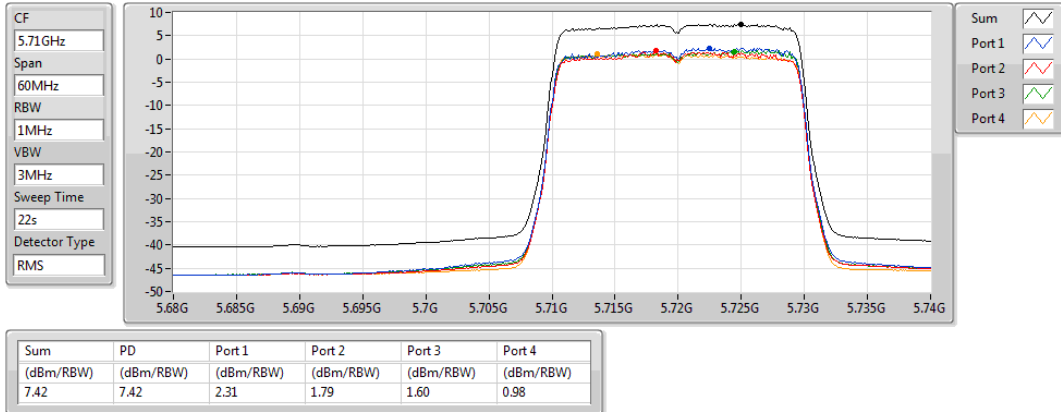
5700MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

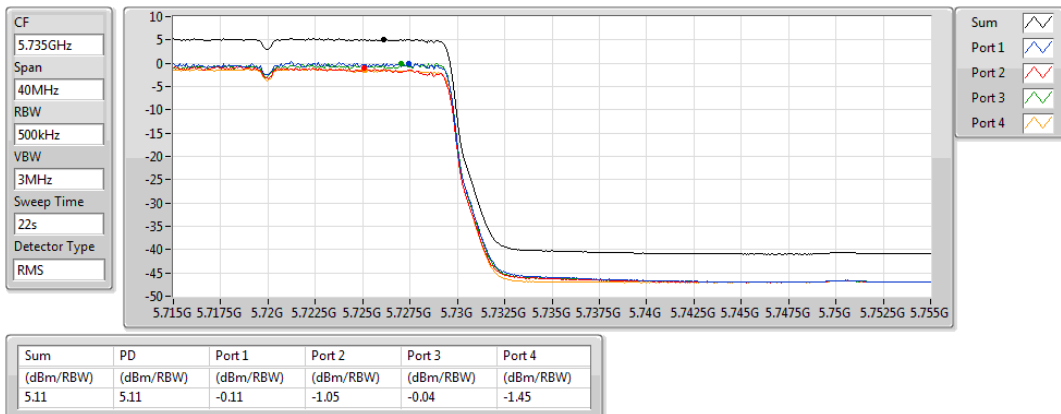
5720MHz Straddle 5.47-5.725GHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

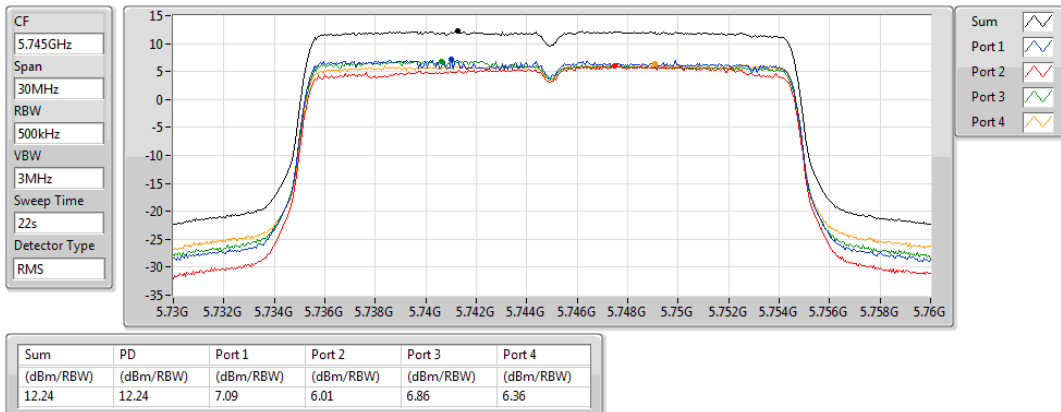
5720MHz Straddle 5.725-5.85GHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

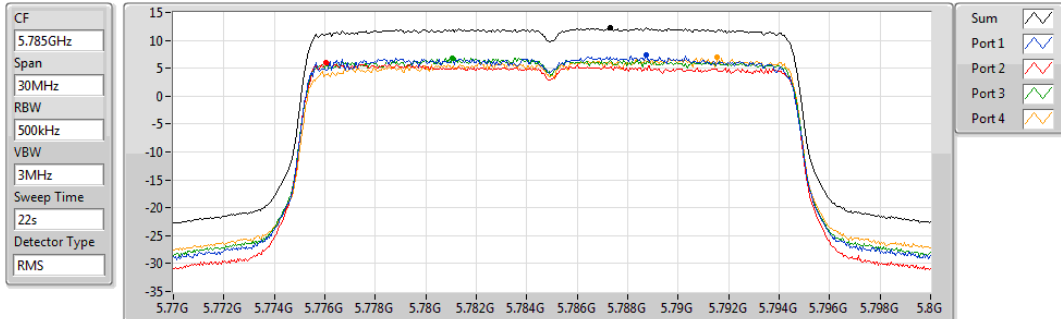
5745MHz



ax20,bf_Nss1,(MCS0)_4TX

PSD

5785MHz

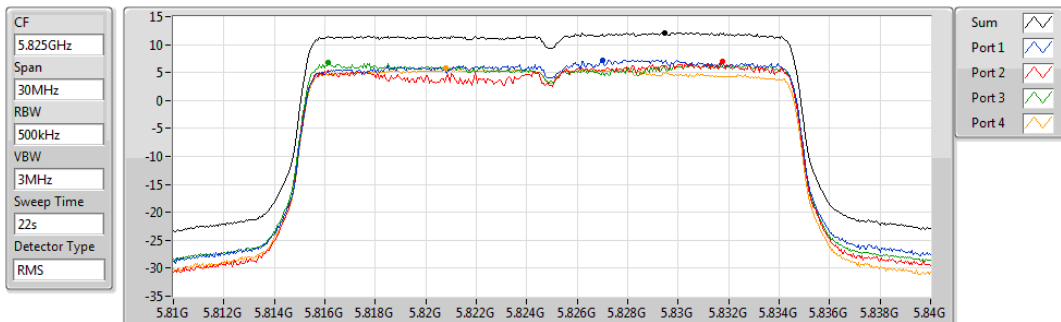


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.19	12.19	7.39	6.07	6.85	6.90

ax20,bf_Nss1,(MCS0)_4TX

PSD

5825MHz

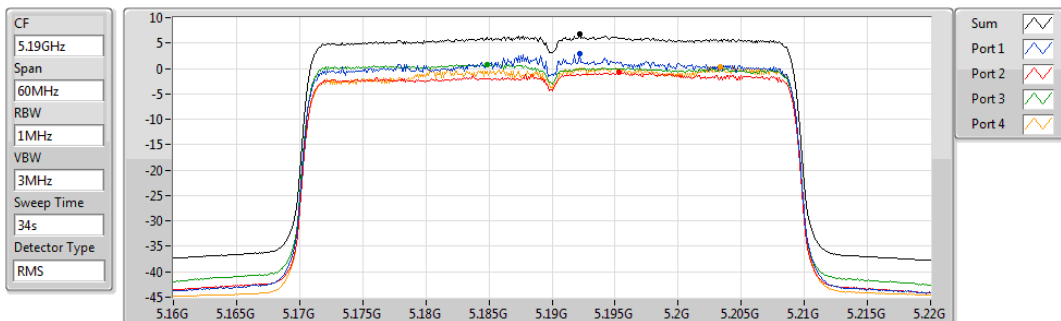


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.13	12.13	7.28	7.08	6.72	5.78

ax40,bf_Nss1,(MCS0)_4TX

PSD

5190MHz

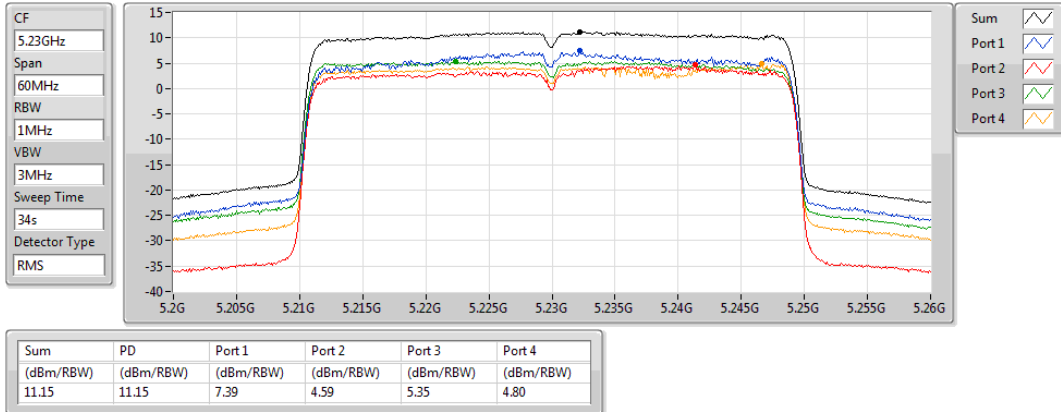


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.67	6.67	2.84	-0.79	0.75	0.40

ax40,bf_Nss1,(MCS0)_4TX

PSD

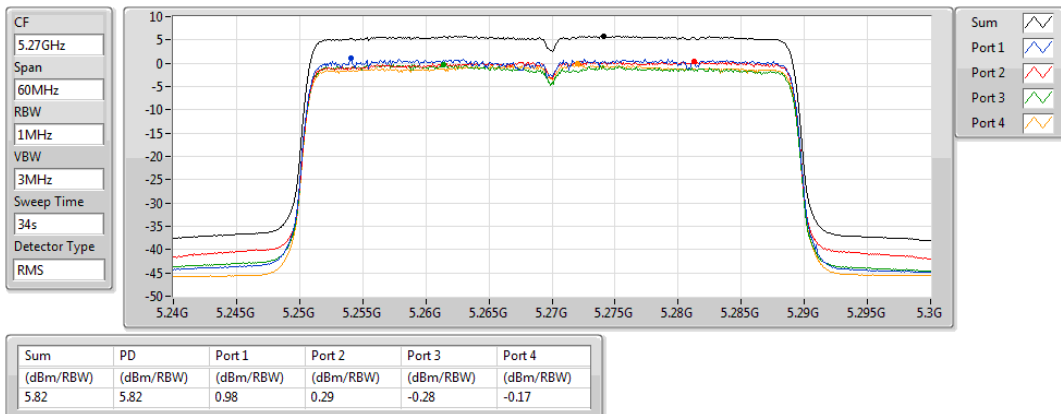
5230MHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

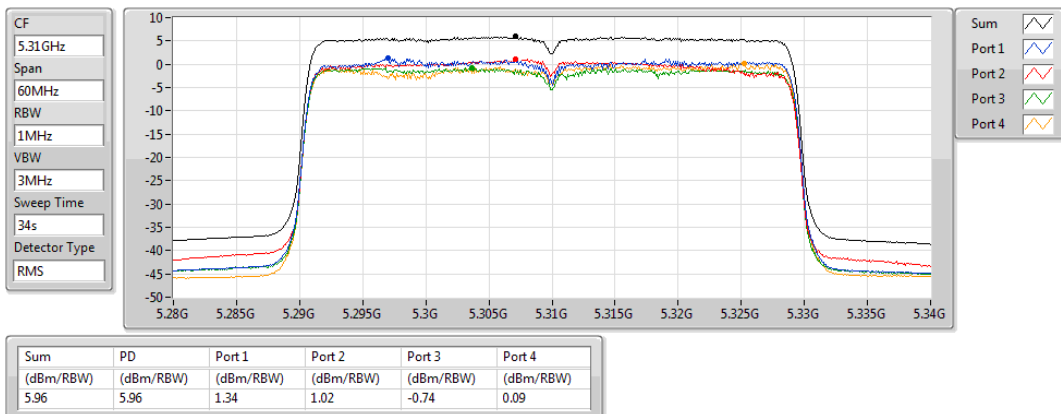
5270MHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

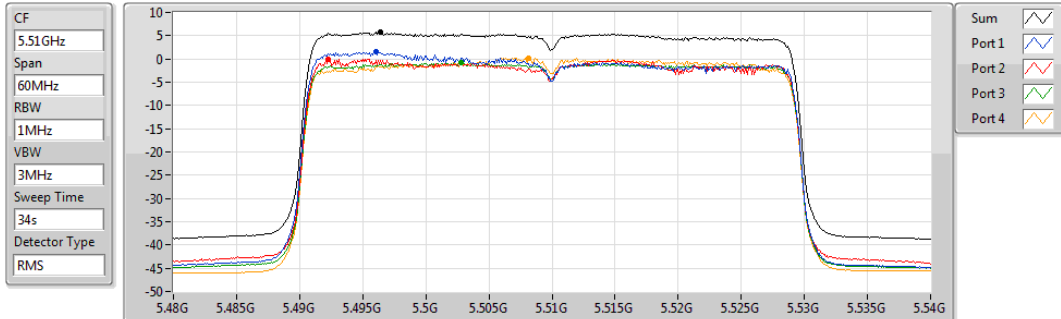
5310MHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

5510MHz

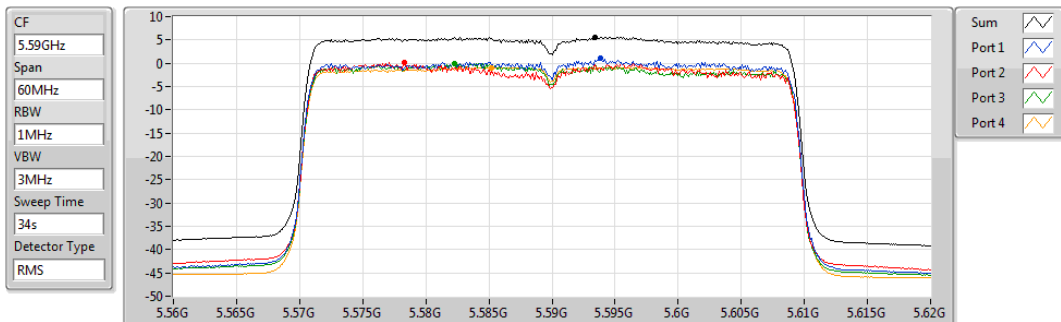


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.76	5.76	1.53	0.02	-0.88	0.23

ax40,bf_Nss1,(MCS0)_4TX

PSD

5590MHz

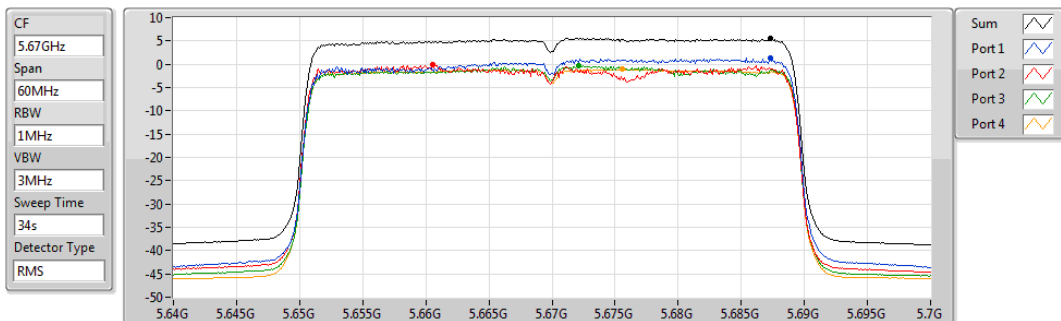


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.65	5.65	1.11	0.15	-0.02	-0.90

ax40,bf_Nss1,(MCS0)_4TX

PSD

5670MHz

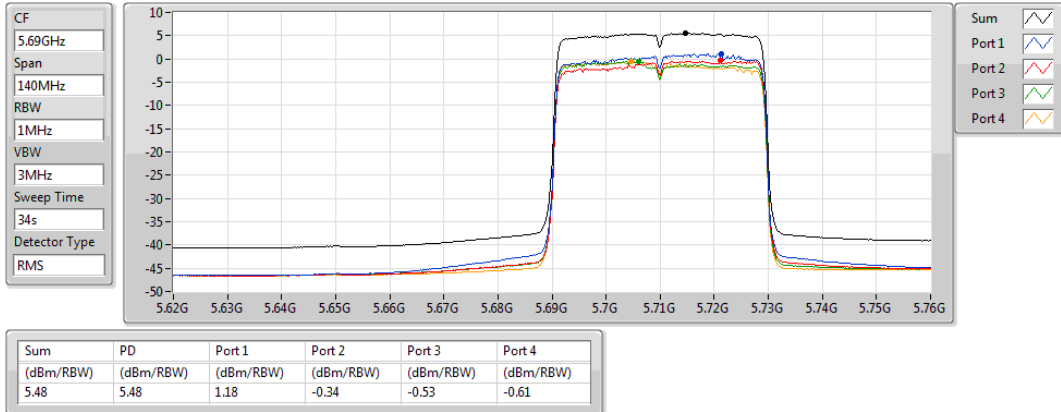


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.58	5.58	1.41	-0.18	-0.26	-1.07

ax40,bf_Nss1,(MCS0)_4TX

PSD

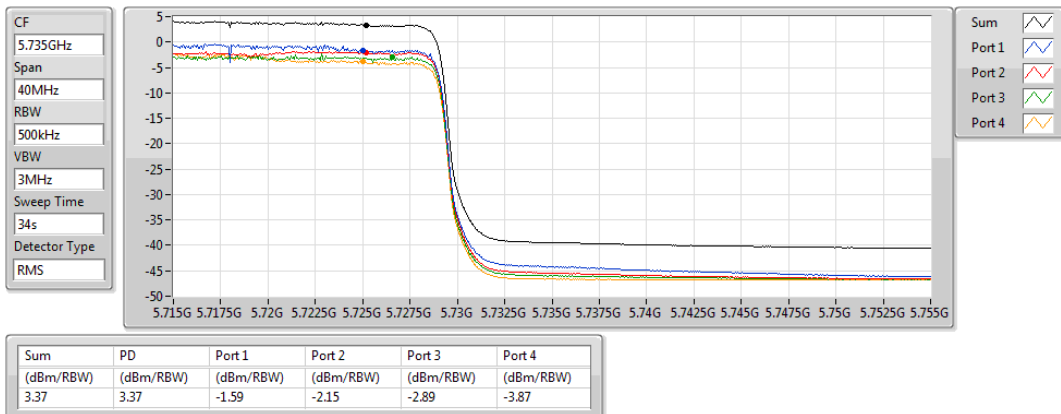
5710MHz Straddle 5.47-5.725GHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

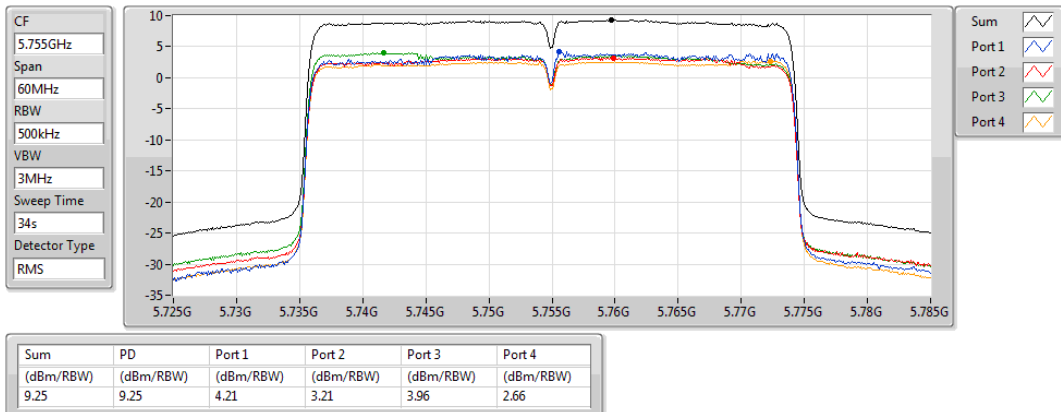
5710MHz Straddle 5.725-5.85GHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

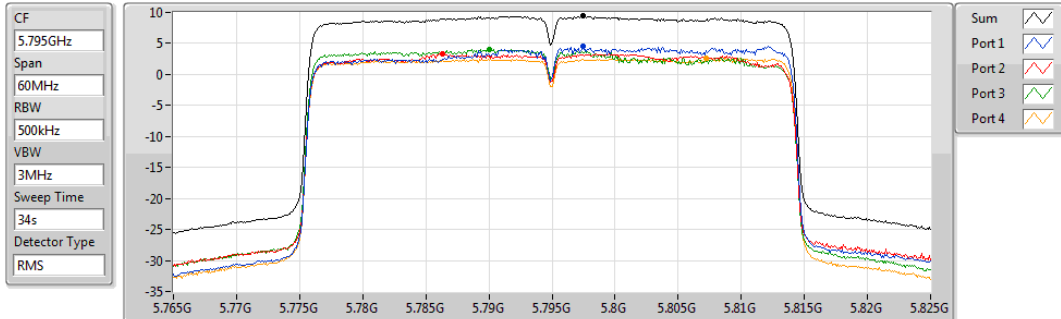
5755MHz



ax40,bf_Nss1,(MCS0)_4TX

PSD

5795MHz

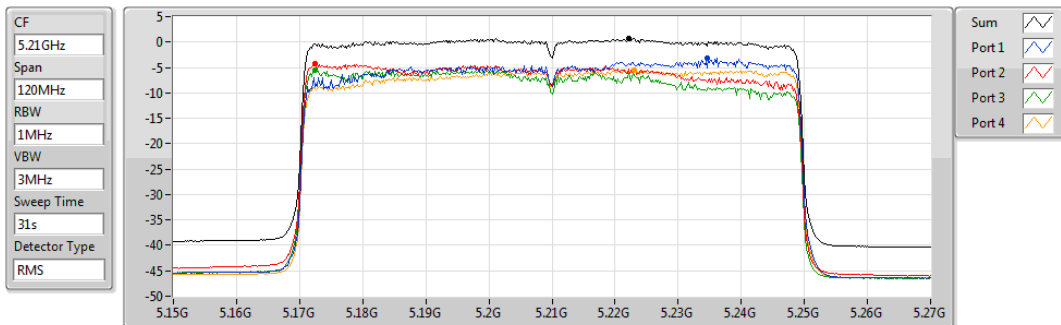


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.50	9.50	4.54	3.33	3.97	2.67

ax80,bf_Nss1,(MCS0)_4TX

PSD

5210MHz

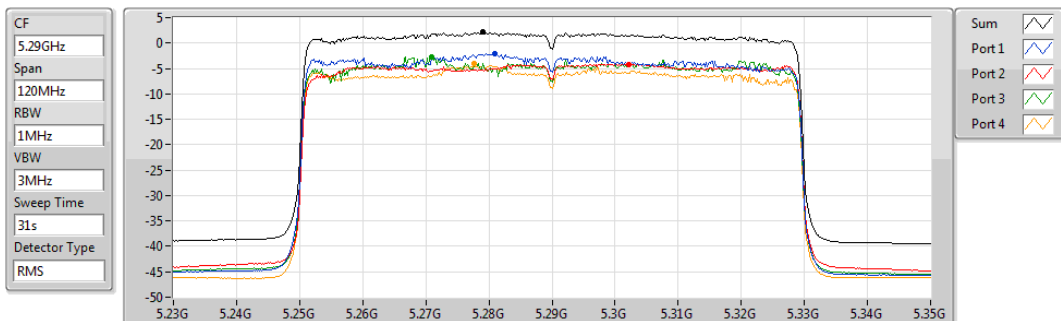


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.68	0.68	-3.19	-4.26	-5.45	-5.47

ax80,bf_Nss1,(MCS0)_4TX

PSD

5290MHz

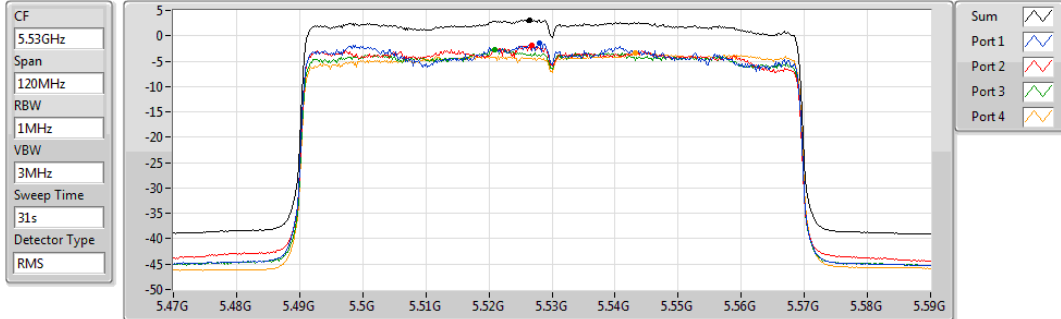


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.12	2.12	-2.04	-4.14	-2.73	-4.13

ax80,bf_Nss1,(MCS0)_4TX

PSD

5530MHz

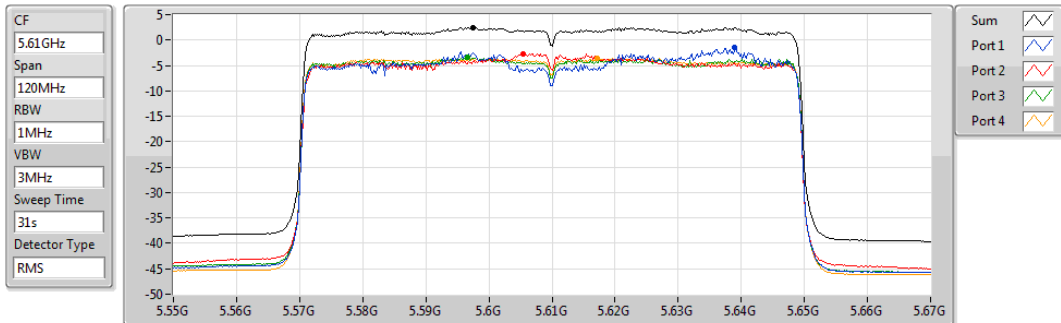


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.15	3.15	-1.41	-1.98	-2.71	-3.35

ax80,bf_Nss1,(MCS0)_4TX

PSD

5610MHz

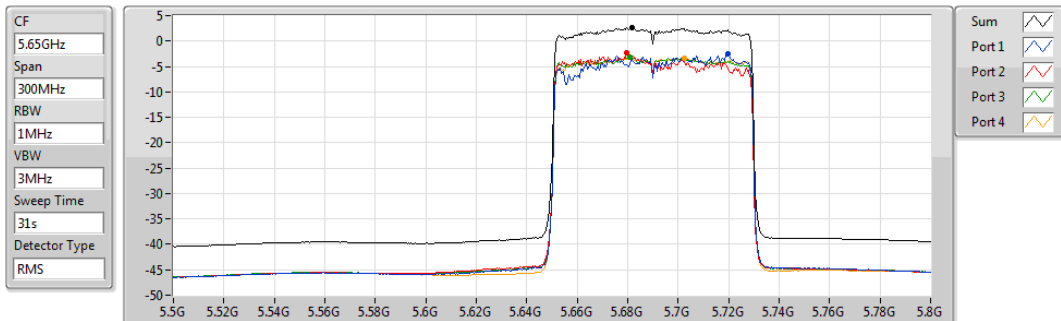


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.52	2.52	-1.50	-2.67	-3.36	-3.65

ax80,bf_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

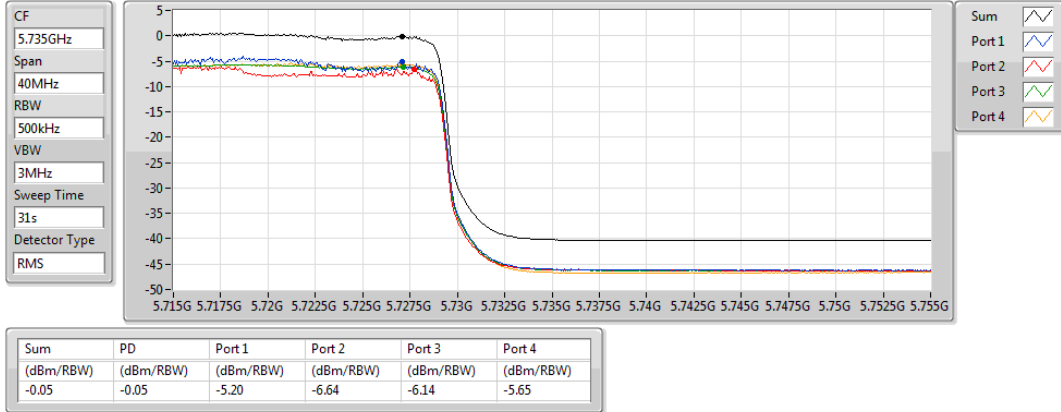


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.59	2.59	-2.48	-2.41	-3.22	-3.38

ax80,bf_Nss1,(MCS0)_4TX

PSD

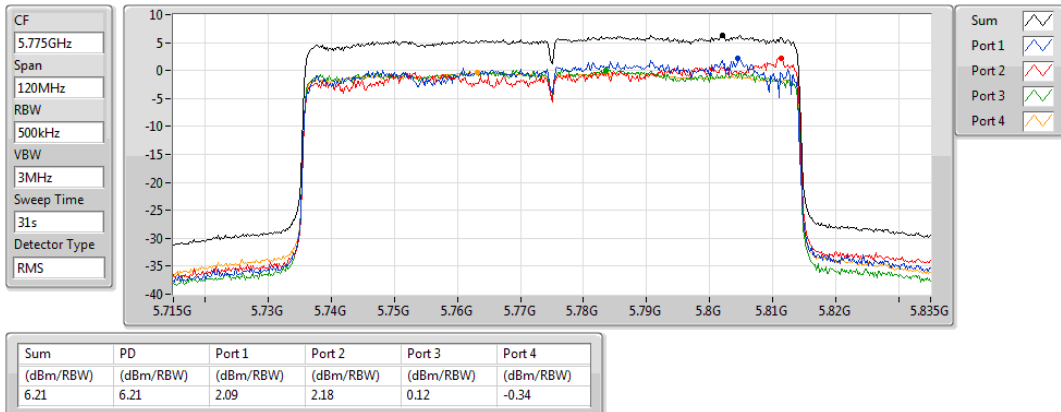
5690MHz Straddle 5.725-5.85GHz



ax80,bf_Nss1,(MCS0)_4TX

PSD

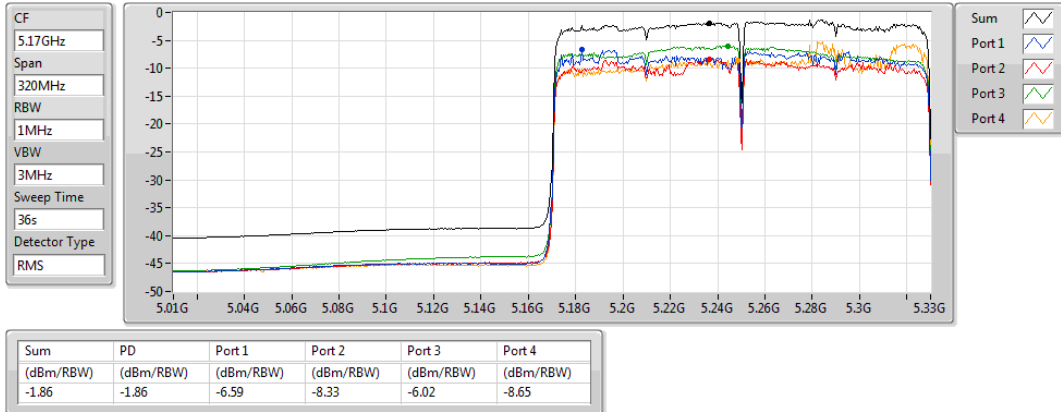
5775MHz



ax160,bf_Nss1,(MCS0)_4TX

PSD

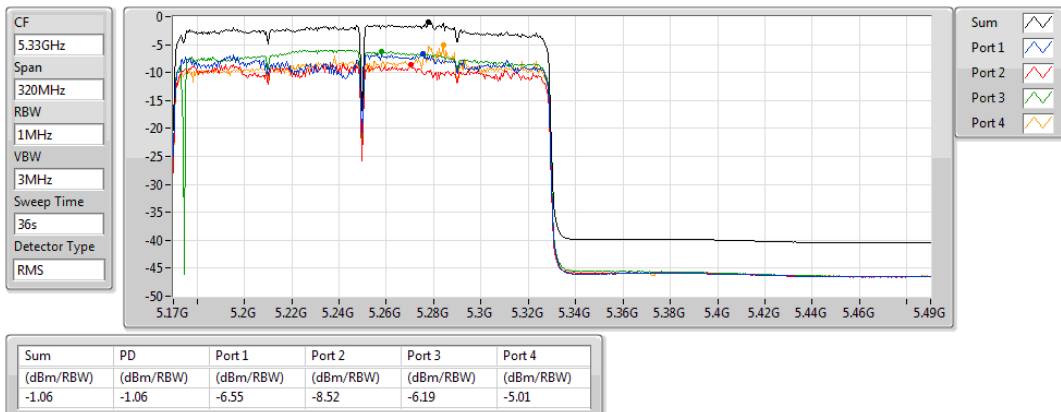
5250MHz Straddle 5.15-5.25GHz



ax160,bf_Nss1,(MCS0)_4TX

PSD

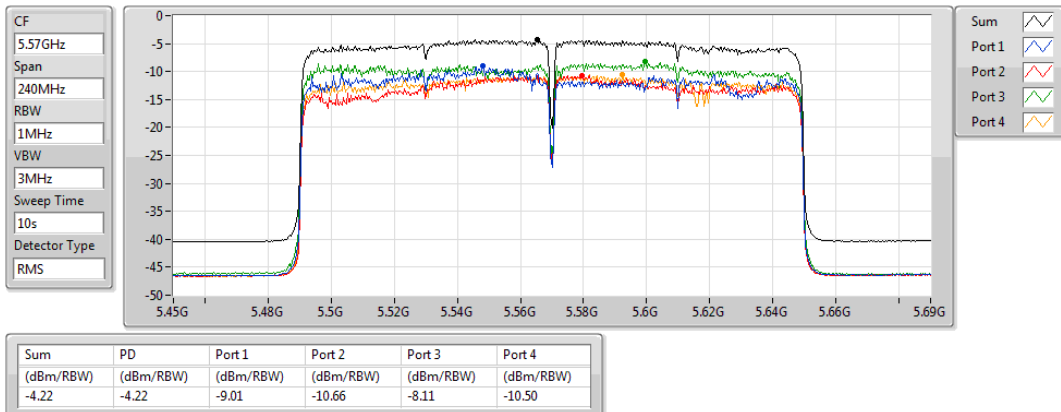
5250MHz Straddle 5.25-5.35GHz



ax160,bf_Nss1,(MCS0)_4TX

PSD

5570MHz



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

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

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

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

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

3.5.2 Test Procedures

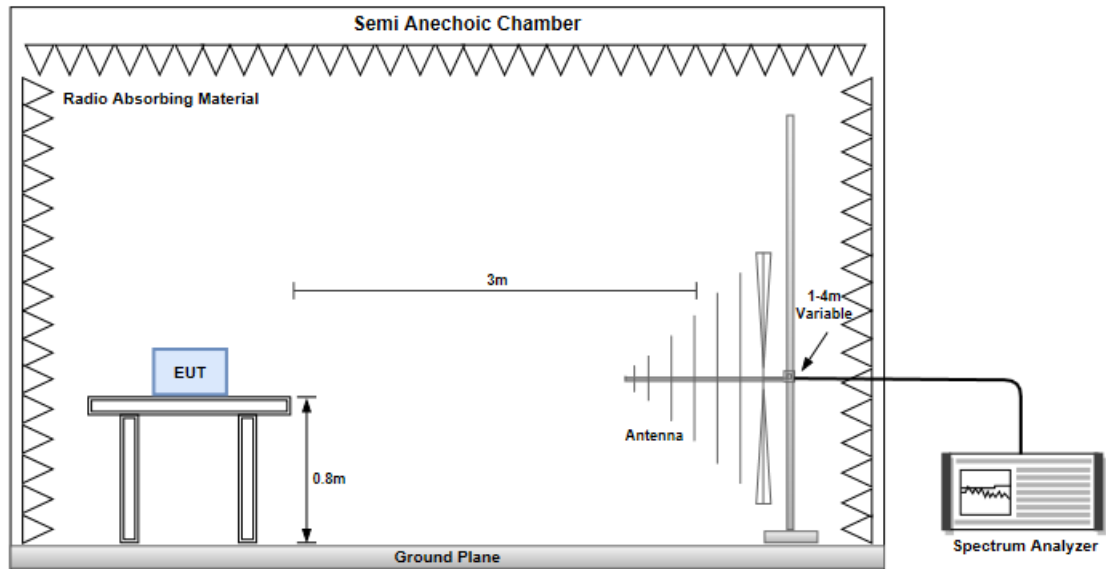
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

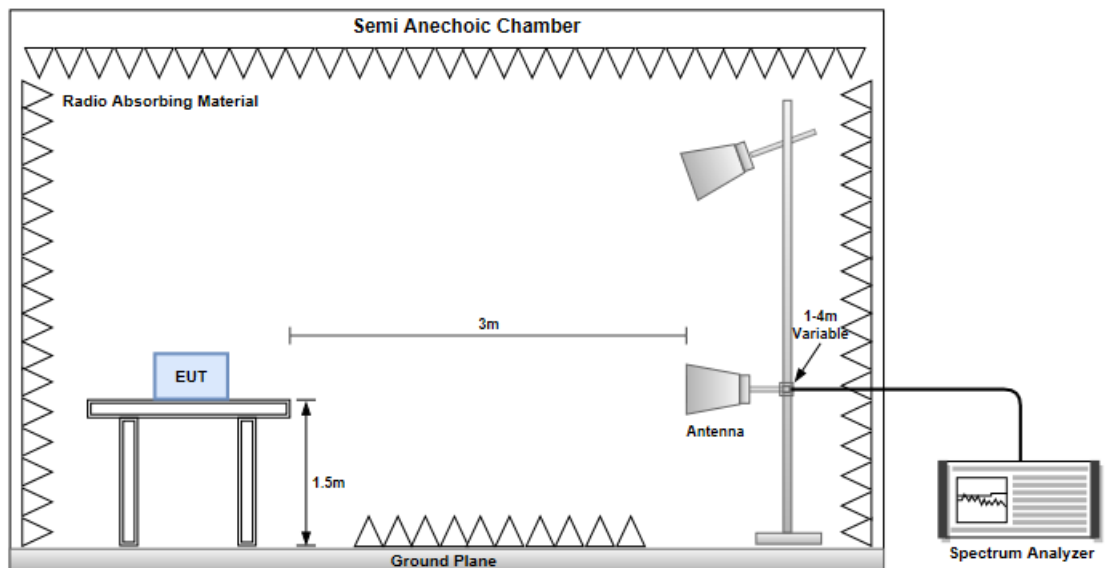
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

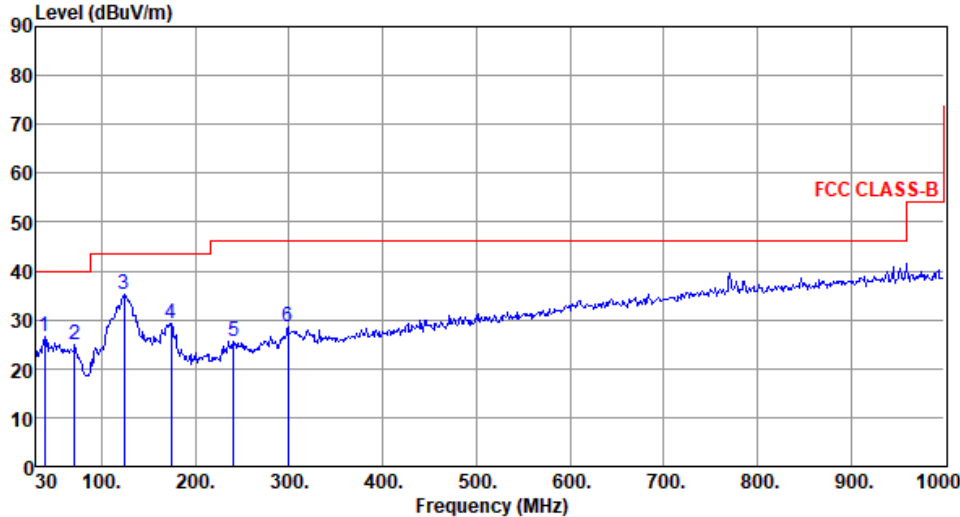


Radiated Emissions above 1 GHz



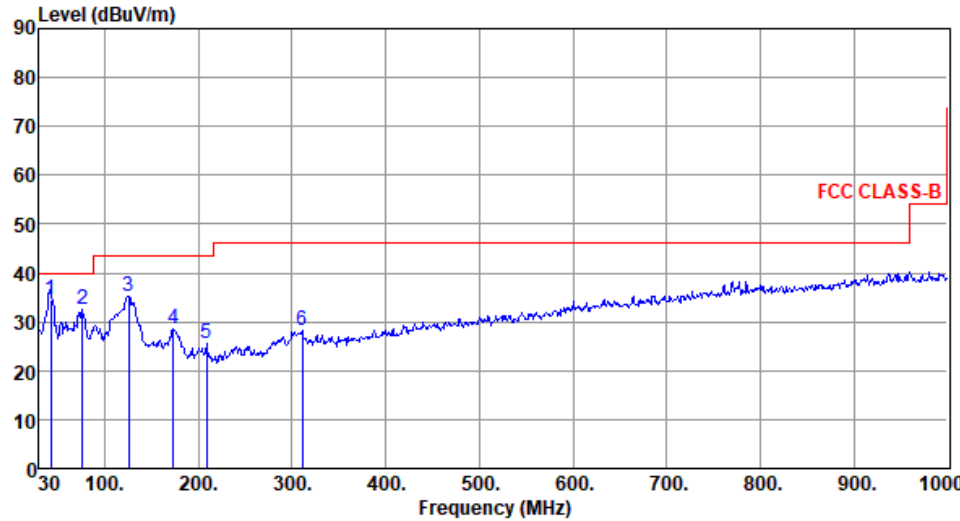
3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

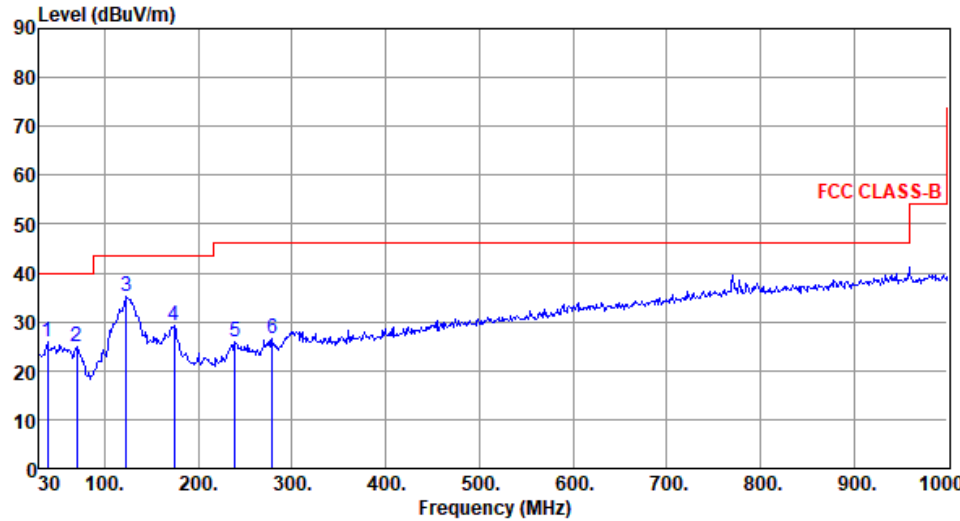
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.73	26.44	40.00	-13.56	35.20	-8.76	Peak	---	---
2	70.74	24.95	40.00	-15.05	35.67	-10.72	Peak	---	---
3	124.09	35.27	43.50	-8.23	45.54	-10.27	Peak	---	---
4	174.53	29.34	43.50	-14.16	38.62	-9.28	Peak	---	---
5	240.49	25.55	46.00	-20.45	35.72	-10.17	Peak	---	---
6	298.69	28.63	46.00	-17.37	36.75	-8.12	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Level (dBuV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn level reading MHz dBuV/m dBuV/m dB dBuV dB cm deg 142.6134.5340.00-5.4742.79-8.26QP109183 276.5632.4940.00-7.5144.64-12.15Peak------ 3126.0335.3643.50-8.1445.43-10.07Peak------ 4173.5628.4843.50-15.0237.68-9.20Peak------ 5208.4825.4643.50-18.0437.53-12.07Peak------ 6311.3028.3046.00-17.7035.99-7.69Peak------			
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.			

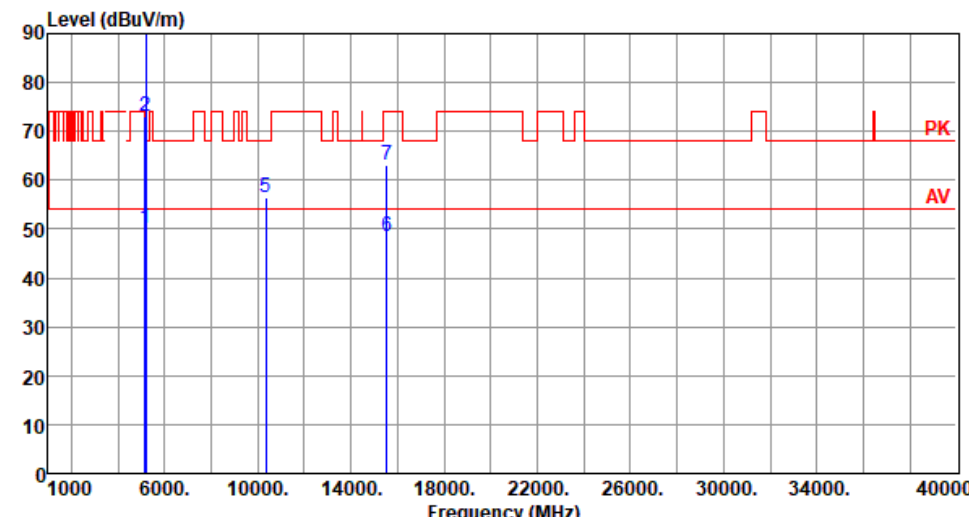
Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</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</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>38.73</td><td>25.77</td><td>40.00</td><td>-14.23</td><td>34.53</td><td>-8.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>69.77</td><td>24.90</td><td>40.00</td><td>-15.10</td><td>35.50</td><td>-10.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>123.12</td><td>35.15</td><td>43.50</td><td>-8.35</td><td>45.52</td><td>-10.37</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>174.53</td><td>29.10</td><td>43.50</td><td>-14.40</td><td>38.38</td><td>-9.28</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>239.52</td><td>25.84</td><td>46.00</td><td>-20.16</td><td>36.09</td><td>-10.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>279.29</td><td>26.68</td><td>46.00</td><td>-19.32</td><td>35.35</td><td>-8.67</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		High	Table						dBuV			cm	deg	1	38.73	25.77	40.00	-14.23	34.53	-8.76	Peak	---	---	2	69.77	24.90	40.00	-15.10	35.50	-10.60	Peak	---	---	3	123.12	35.15	43.50	-8.35	45.52	-10.37	Peak	---	---	4	174.53	29.10	43.50	-14.40	38.38	-9.28	Peak	---	---	5	239.52	25.84	46.00	-20.16	36.09	-10.25	Peak	---	---	6	279.29	26.68	46.00	-19.32	35.35	-8.67	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																				
					dBuV			cm	deg																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																													

Modulation	11a	Test Freq. (MHz)	5745																																																																						
Polarization	Vertical																																																																								
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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>42.61</td><td>34.32</td><td>40.00</td><td>-5.68</td><td>42.58</td><td>-8.26</td><td>QP</td><td>109</td><td>189</td></tr><tr><td>2</td><td>55.22</td><td>31.05</td><td>40.00</td><td>-8.95</td><td>39.72</td><td>-8.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>74.62</td><td>32.33</td><td>40.00</td><td>-7.67</td><td>43.89</td><td>-11.56</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>124.09</td><td>34.94</td><td>43.50</td><td>-8.56</td><td>45.21</td><td>-10.27</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>173.56</td><td>28.96</td><td>43.50</td><td>-14.54</td><td>38.16</td><td>-9.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>298.69</td><td>28.19</td><td>46.00</td><td>-17.81</td><td>36.31</td><td>-8.12</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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	Remark	ANT High cm	Turn Table deg	1	42.61	34.32	40.00	-5.68	42.58	-8.26	QP	109	189	2	55.22	31.05	40.00	-8.95	39.72	-8.67	Peak	---	---	3	74.62	32.33	40.00	-7.67	43.89	-11.56	Peak	---	---	4	124.09	34.94	43.50	-8.56	45.21	-10.27	Peak	---	---	5	173.56	28.96	43.50	-14.54	38.16	-9.20	Peak	---	---	6	298.69	28.19	46.00	-17.81	36.31	-8.12	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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3.5.1 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Level (dBUV/m) <			

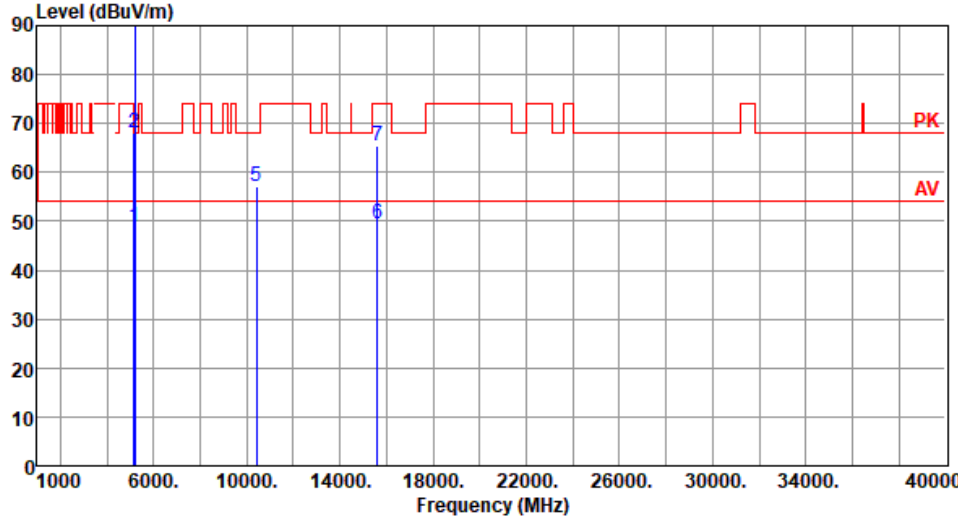
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.10	54.00	-3.90	45.46	4.64	Average	132	204
2	5150.00	72.90	74.00	-1.10	68.26	4.64	Peak	132	204
3 *	5180.00	104.92			100.46	4.46	Average	132	204
4 *	5180.00	115.03			110.57	4.46	Peak	132	204
5	10360.00	56.61	68.20	-11.59	42.42	14.19	Peak	100	62
6	15540.00	48.65	54.00	-5.35	33.74	14.91	Average	211	94
7	15540.00	63.21	74.00	-10.79	48.30	14.91	Peak	211	94

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*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)	5200
Polarization	Horizontal		

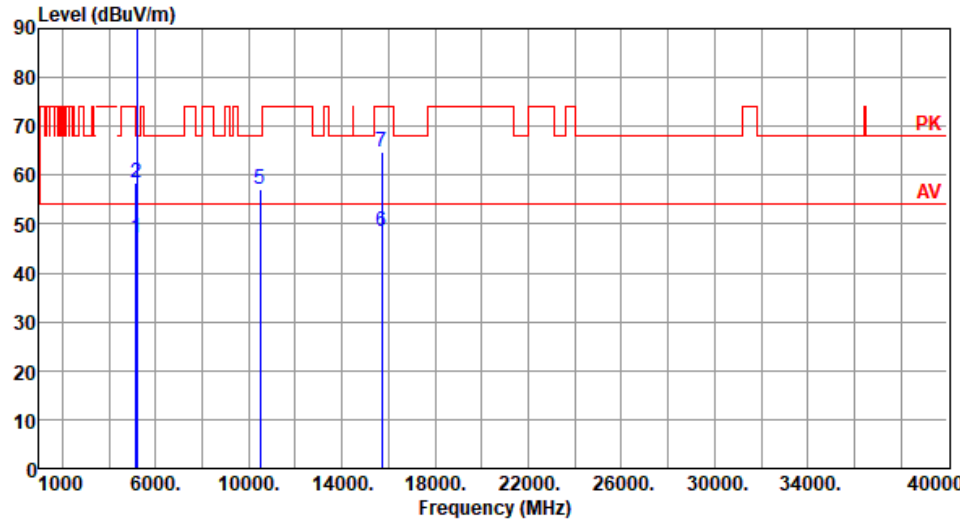


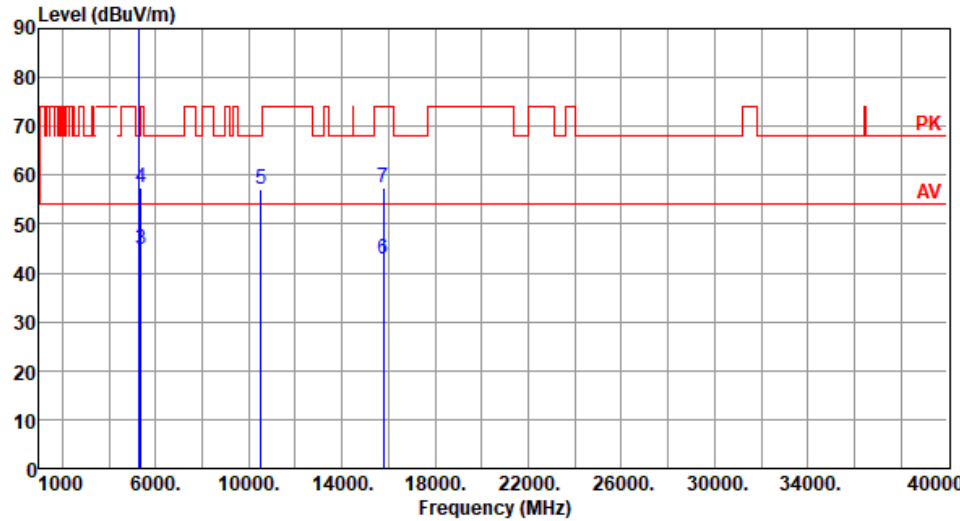
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.83	54.00	-5.17	44.19	4.64	Average	220	232
2	5150.00	68.00	74.00	-6.00	63.36	4.64	Peak	220	232
3 *	5200.00	110.11			105.76	4.35	Average	220	232
4 *	5200.00	119.24			114.89	4.35	Peak	220	232
5	10400.00	57.19	68.20	-11.01	42.89	14.30	Peak	100	158
6	15600.00	49.43	54.00	-4.57	34.79	14.64	Average	274	108
7	15600.00	65.31	74.00	-8.69	50.67	14.64	Peak	274	108

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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)	5200																																																																																
Polarization	Vertical																																																																																		
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
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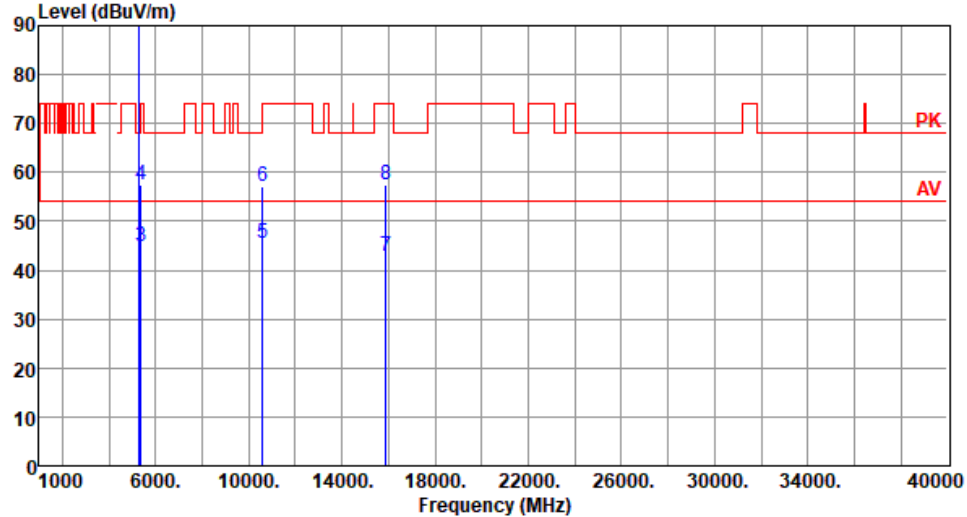
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5240																																																																																
Polarization	Vertical																																																																																		
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
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3 *	5240.00	107.85			103.64	4.21	Average	130	206																																																																										
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Modulation	11a	Test Freq. (MHz)	5260																																																																																					
Polarization	Horizontal																																																																																							
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																															
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Modulation	11a		Test Freq. (MHz)		5260	
Polarization	Vertical					
Level (dBuV/m) </						

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



		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m		reading			High	Table
									cm	deg
1	*	5300.00	103.28			99.27	4.01	Average	173	25
2	*	5300.00	112.21			108.20	4.01	Peak	173	25
3		5350.00	44.80	54.00	-9.20	40.86	3.94	Average	173	25
4		5350.00	57.41	74.00	-16.59	53.47	3.94	Peak	173	25
5		10600.00	45.54	54.00	-8.46	31.26	14.28	Average	100	71
6		10600.00	57.14	74.00	-16.86	42.86	14.28	Peak	100	71
7		15900.00	42.87	54.00	-11.13	28.62	14.25	Average	100	85
8		15900.00	57.49	74.00	-16.51	43.24	14.25	Peak	100	85

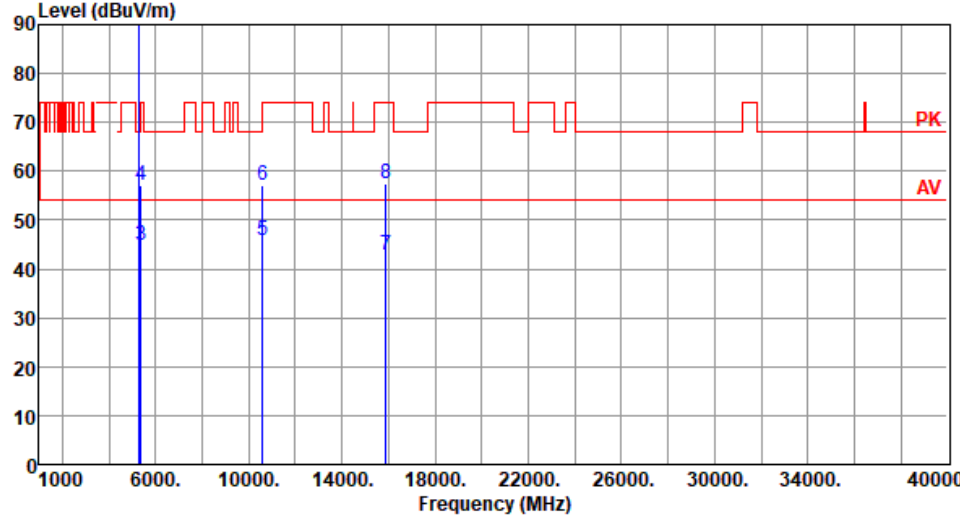
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

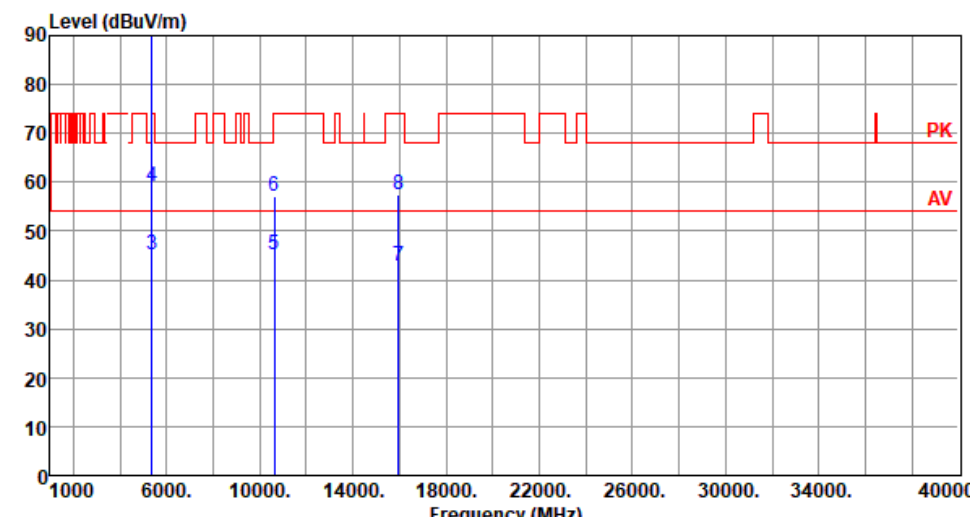
Note 3: "*" is Peak / Average value of fundamental frequency

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

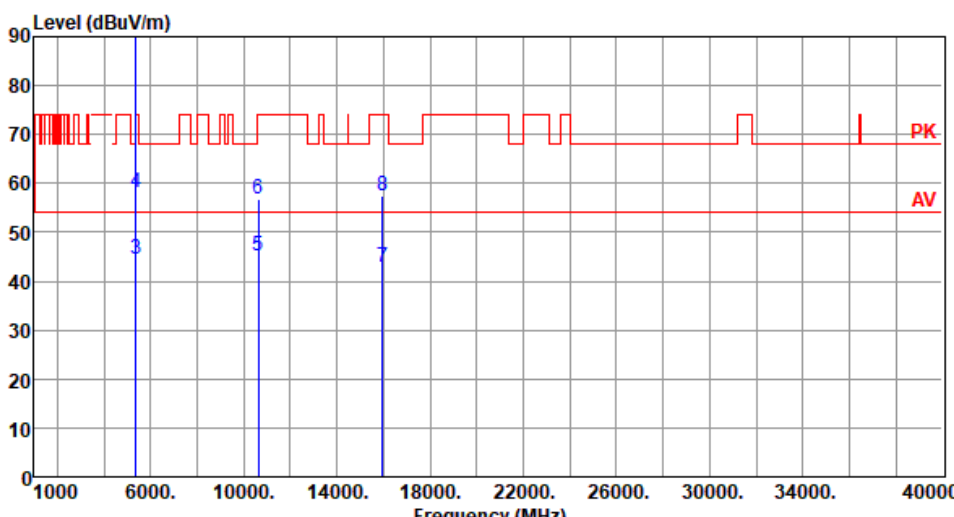


	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	
	MHz	level	dBuV/m	dB	reading	dB		High	Table	
		dBuV/m			dBuV			cm	deg	
1	*	5300.00	101.15		97.14	4.01	Average	134	211	
2	*	5300.00	110.04		106.03	4.01	Peak	134	211	
3		5350.00	44.69	54.00	-9.31	40.75	3.94	Average	134	211
4		5350.00	57.25	74.00	-16.75	53.31	3.94	Peak	134	211
5		10600.00	45.85	54.00	-8.15	31.57	14.28	Average	100	75
6		10600.00	57.03	74.00	-16.97	42.75	14.28	Peak	100	75
7		15900.00	42.98	54.00	-11.02	28.73	14.25	Average	100	95
8		15900.00	57.45	74.00	-16.55	43.20	14.25	Peak	100	95

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
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Modulation	11a	Test Freq. (MHz)	5320																																																																																																																				
Polarization	Horizontal																																																																																																																						
 <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></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>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5320.00</td><td>103.32</td><td></td><td>99.34</td><td>3.98</td><td>Average</td><td>180</td><td>22</td></tr><tr><td>2</td><td>*</td><td>5320.00</td><td>112.35</td><td></td><td>108.37</td><td>3.98</td><td>Peak</td><td>180</td><td>22</td></tr><tr><td>3</td><td></td><td>5350.00</td><td>45.17</td><td>54.00</td><td>-8.83</td><td>41.23</td><td>3.94</td><td>Average</td><td>180</td><td>22</td></tr><tr><td>4</td><td></td><td>5350.00</td><td>59.10</td><td>74.00</td><td>-14.90</td><td>55.16</td><td>3.94</td><td>Peak</td><td>180</td><td>22</td></tr><tr><td>5</td><td></td><td>10640.00</td><td>45.32</td><td>54.00</td><td>-8.68</td><td>30.94</td><td>14.38</td><td>Average</td><td>100</td><td>68</td></tr><tr><td>6</td><td></td><td>10640.00</td><td>57.04</td><td>74.00</td><td>-16.96</td><td>42.66</td><td>14.38</td><td>Peak</td><td>100</td><td>68</td></tr><tr><td>7</td><td></td><td>15960.00</td><td>42.81</td><td>54.00</td><td>-11.19</td><td>28.59</td><td>14.22</td><td>Average</td><td>100</td><td>91</td></tr><tr><td>8</td><td></td><td>15960.00</td><td>57.42</td><td>74.00</td><td>-16.58</td><td>43.20</td><td>14.22</td><td>Peak</td><td>100</td><td>91</td></tr></tbody></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m		reading			High	Table						dBuV			cm	deg	1	*	5320.00	103.32		99.34	3.98	Average	180	22	2	*	5320.00	112.35		108.37	3.98	Peak	180	22	3		5350.00	45.17	54.00	-8.83	41.23	3.94	Average	180	22	4		5350.00	59.10	74.00	-14.90	55.16	3.94	Peak	180	22	5		10640.00	45.32	54.00	-8.68	30.94	14.38	Average	100	68	6		10640.00	57.04	74.00	-16.96	42.66	14.38	Peak	100	68	7		15960.00	42.81	54.00	-11.19	28.59	14.22	Average	100	91	8		15960.00	57.42	74.00	-16.58	43.20	14.22	Peak	100	91
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																														
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8		15960.00	57.42	74.00	-16.58	43.20	14.22	Peak	100	91																																																																																																													
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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		



		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m	dB	reading	dB		High	Table
			dBuV/m			dBuV			cm	deg
1	*	5320.00	101.16			97.18	3.98	Average	129	208
2	*	5320.00	110.12			106.14	3.98	Peak	129	208
3		5350.00	44.35	54.00	-9.65	40.41	3.94	Average	129	208
4		5350.00	58.24	74.00	-15.76	54.30	3.94	Peak	129	208
5		10640.00	45.29	54.00	-8.71	30.91	14.38	Average	100	55
6		10640.00	56.95	74.00	-17.05	42.57	14.38	Peak	100	55
7		15960.00	42.76	54.00	-11.24	28.54	14.22	Average	100	44
8		15960.00	57.29	74.00	-16.71	43.07	14.22	Peak	100	44

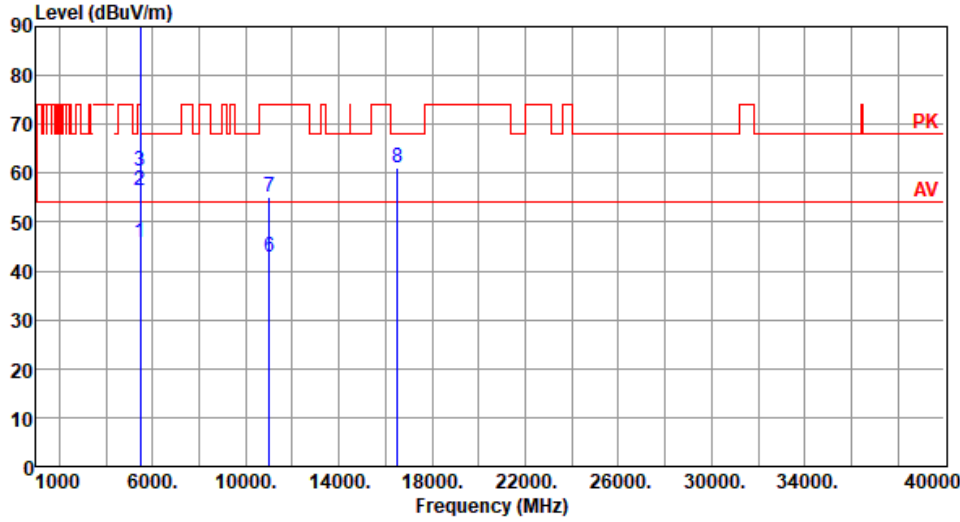
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5500
Polarization	Horizontal		

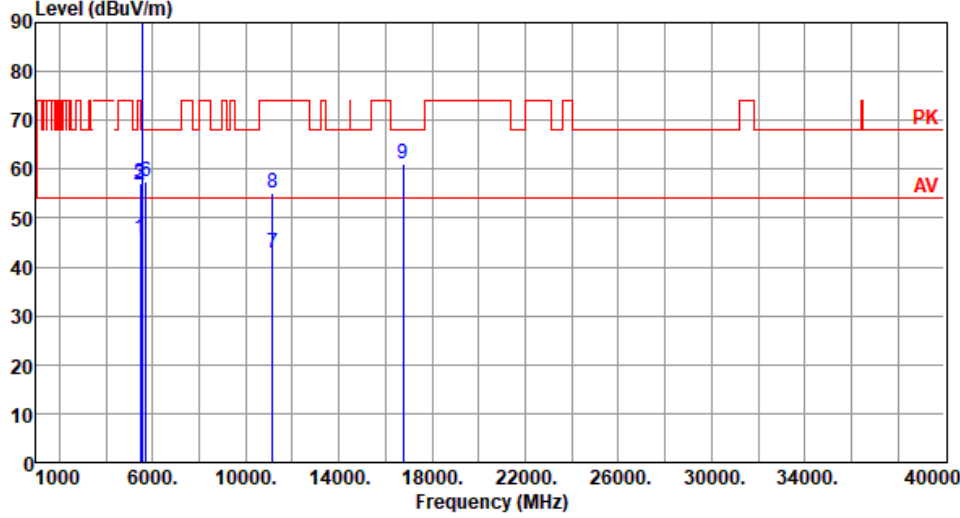


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.92	54.00	-8.08	41.47	4.45	Average	180	24
2	5460.00	56.60	74.00	-17.40	52.15	4.45	Peak	180	24
3	5470.00	60.36	68.20	-7.84	55.86	4.50	Peak	180	24
4 *	5500.00	103.16			98.51	4.65	Average	180	24
5 *	5500.00	112.35			107.70	4.65	Peak	180	24
6	11000.00	42.86	54.00	-11.14	27.98	14.88	Average	100	91
7	11000.00	55.14	74.00	-18.86	40.26	14.88	Peak	100	91
8	16500.00	61.02	68.20	-7.18	44.83	16.19	Peak	129	81

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *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)	5500
Polarization	Vertical		
Level (dBuV/m) </			

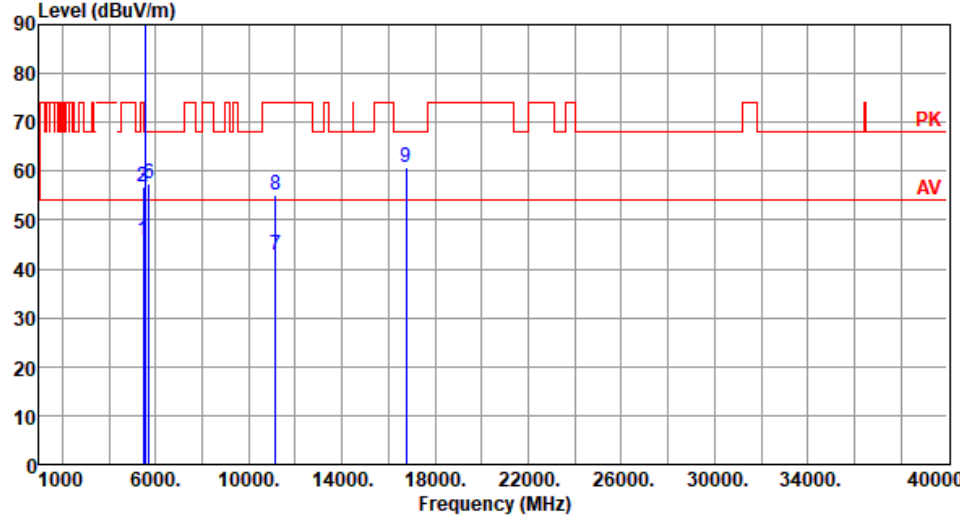
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.91	54.00	-8.09	41.46	4.45	Average	169	22
2	5460.00	56.92	74.00	-17.08	52.47	4.45	Peak	169	22
3	5470.00	57.06	68.20	-11.14	52.56	4.50	Peak	169	22
4 *	5580.00	102.70			98.16	4.54	Average	169	22
5 *	5580.00	111.93			107.39	4.54	Peak	169	22
6	5725.00	57.62	68.20	-10.58	52.77	4.85	Peak	169	22
7	11160.00	42.93	54.00	-11.07	28.55	14.38	Average	100	90
8	11160.00	55.26	74.00	-18.74	40.88	14.38	Peak	100	90
9	16740.00	61.08	68.20	-7.12	43.61	17.47	Peak	150	84

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *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)	5580
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m		reading			High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.76	54.00	-8.24	41.31	4.45	Average	134	202
2	5460.00	56.84	74.00	-17.16	52.39	4.45	Peak	134	202
3	5470.00	56.95	68.20	-11.25	52.45	4.50	Peak	134	202
4 *	5580.00	100.64			96.10	4.54	Average	134	202
5 *	5580.00	109.81			105.27	4.54	Peak	134	202
6	5725.00	57.54	68.20	-10.66	52.69	4.85	Peak	134	202
7	11160.00	42.82	54.00	-11.18	28.44	14.38	Average	100	74
8	11160.00	55.16	74.00	-18.84	40.78	14.38	Peak	100	74
9	16740.00	60.69	68.20	-7.51	43.22	17.47	Peak	100	93

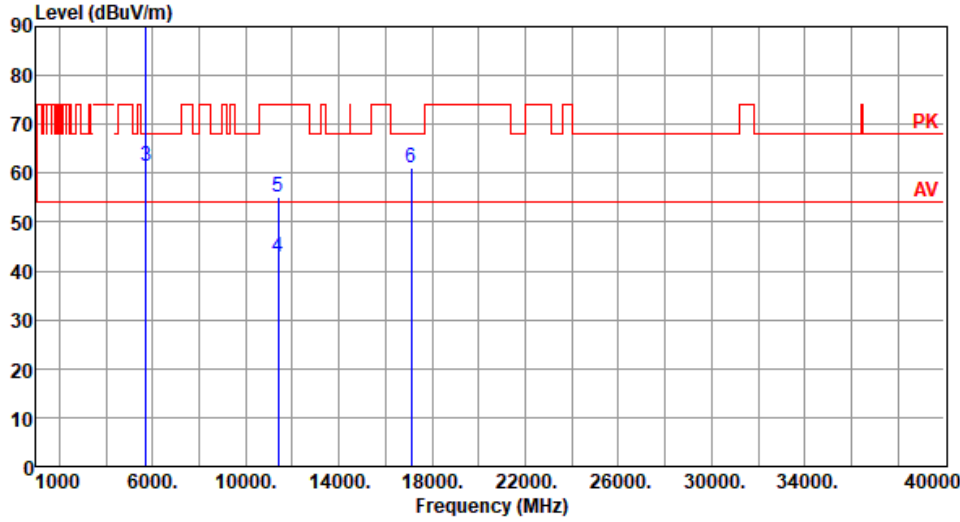
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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

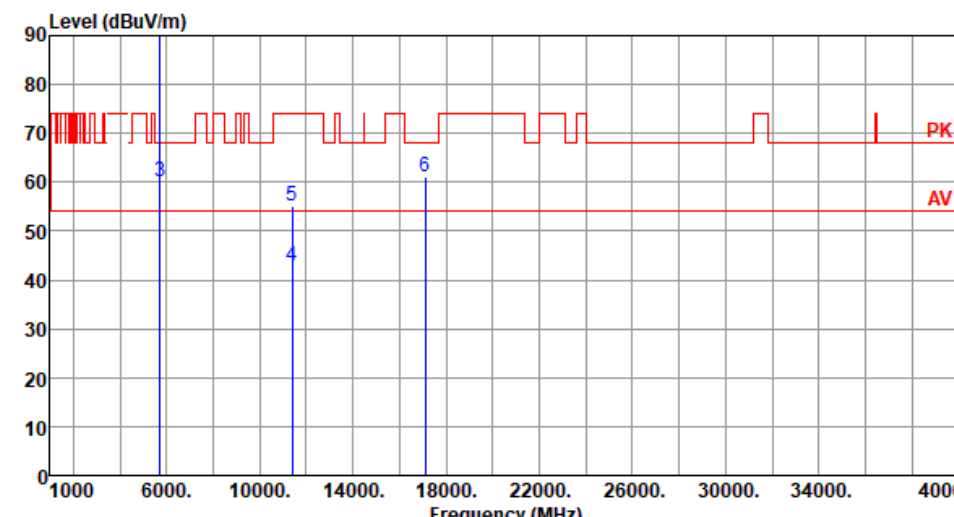
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	5700.00	102.56			97.88	4.68	Average	149	20
2	*	5700.00	111.81			107.13	4.68	Peak	149	20
3		5725.00	61.43	68.20	-6.77	56.58	4.85	Peak	149	20
4		11400.00	42.85	54.00	-11.15	28.17	14.68	Average	100	82
5		11400.00	55.14	74.00	-18.86	40.46	14.68	Peak	100	82
6		17100.00	61.15	68.20	-7.05	43.47	17.68	Peak	124	56

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *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)	5700
Polarization	Vertical		



		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m		reading			High	Table
									cm	deg
1	*	5700.00	100.28			95.60	4.68	Average	133	199
2	*	5700.00	109.65			104.97	4.68	Peak	133	199
3		5725.00	60.21	68.20	-7.99	55.36	4.85	Peak	133	199
4		11400.00	42.76	54.00	-11.24	28.08	14.68	Average	100	35
5		11400.00	55.08	74.00	-18.92	40.40	14.68	Peak	100	35
6		17100.00	61.26	68.20	-6.94	43.58	17.68	Peak	100	58

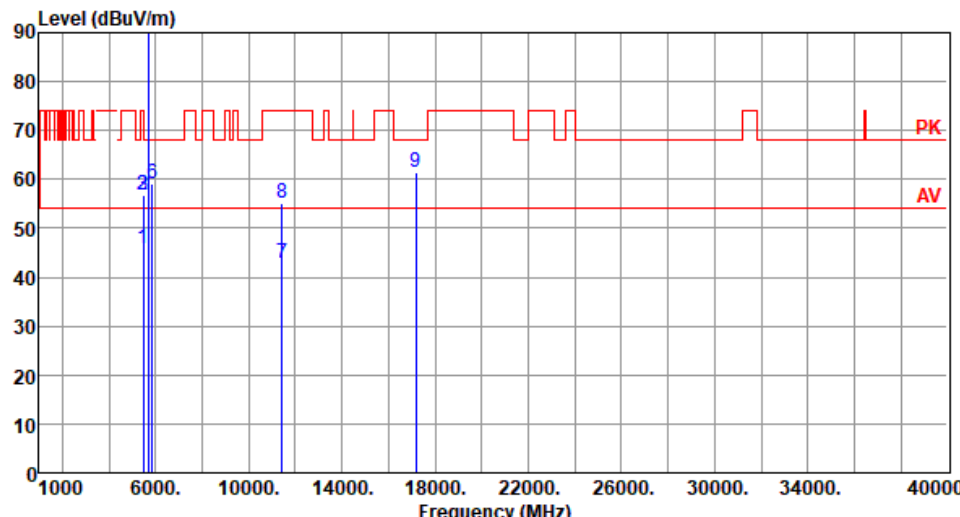
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5720
Polarization	Horizontal		

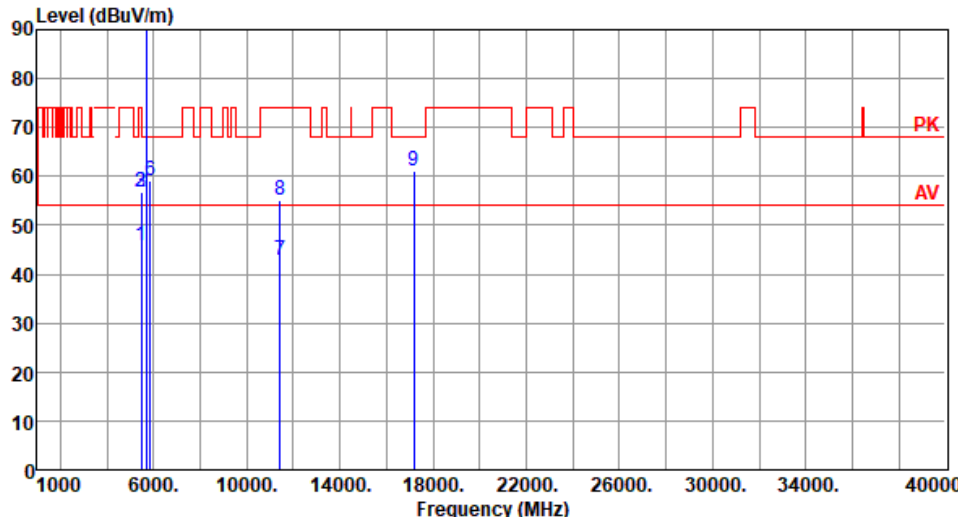


The spectrum plot shows the emission level in dBUV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (1000 to 40000). A red line represents the emission level, and a blue line represents the limit. The emission level is generally below the limit, with some peaks. The plot is labeled with 'PK' and 'AV'.

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.88	54.00	-8.12	41.43	4.45	Average	150	22
2	5460.00	56.85	74.00	-17.15	52.40	4.45	Peak	150	22
3	5470.00	56.92	68.20	-11.28	52.42	4.50	Peak	150	22
4 *	5720.00	102.32			97.51	4.81	Average	150	22
5 *	5720.00	111.78			106.97	4.81	Peak	150	22
6	5850.00	59.03	68.20	-9.17	53.58	5.45	Peak	150	22
7	11440.00	42.92	54.00	-11.08	28.26	14.66	Average	100	59
8	11440.00	55.26	74.00	-18.74	40.60	14.66	Peak	100	59
9	17160.00	61.28	68.20	-6.92	43.63	17.65	Peak	100	68

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

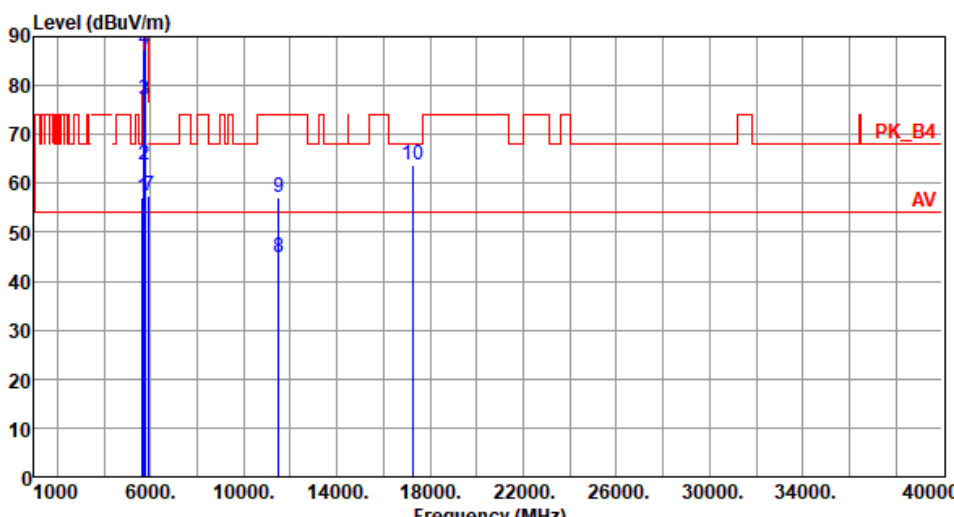
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.82	54.00	-8.18	41.37	4.45	Average	133	206
2	5460.00	56.81	74.00	-17.19	52.36	4.45	Peak	133	206
3	5470.00	56.81	68.20	-11.39	52.31	4.50	Peak	133	206
4 *	5720.00	100.24			95.43	4.81	Average	133	206
5 *	5720.00	109.76			104.95	4.81	Peak	133	206
6	5850.00	58.96	68.20	-9.24	53.51	5.45	Peak	133	206
7	11440.00	42.85	54.00	-11.15	28.19	14.66	Average	100	94
8	11440.00	55.19	74.00	-18.81	40.53	14.66	Peak	100	94
9	17160.00	61.21	68.20	-6.99	43.56	17.65	Peak	100	27

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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)	5745
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5650.00	57.01	68.20	-11.19	52.47	4.54	Peak	100	22
2	5700.00	63.88	105.20	-41.32	59.20	4.68	Peak	100	22
3	5720.00	76.88	110.80	-33.92	72.07	4.81	Peak	100	22
4	5725.00	87.20	122.20	-35.00	82.35	4.85	Peak	100	22
5 *	5745.00	109.62			104.63	4.99	Average	100	22
6 *	5745.00	118.50			113.51	4.99	Peak	100	22
7	5925.00	57.59	68.20	-10.61	52.16	5.43	Peak	100	22
8	11490.00	44.99	54.00	-9.01	30.36	14.63	Average	100	145
9	11490.00	57.28	74.00	-16.72	42.65	14.63	Peak	100	145
10	17235.00	63.71	68.20	-4.49	45.95	17.76	Peak	200	75

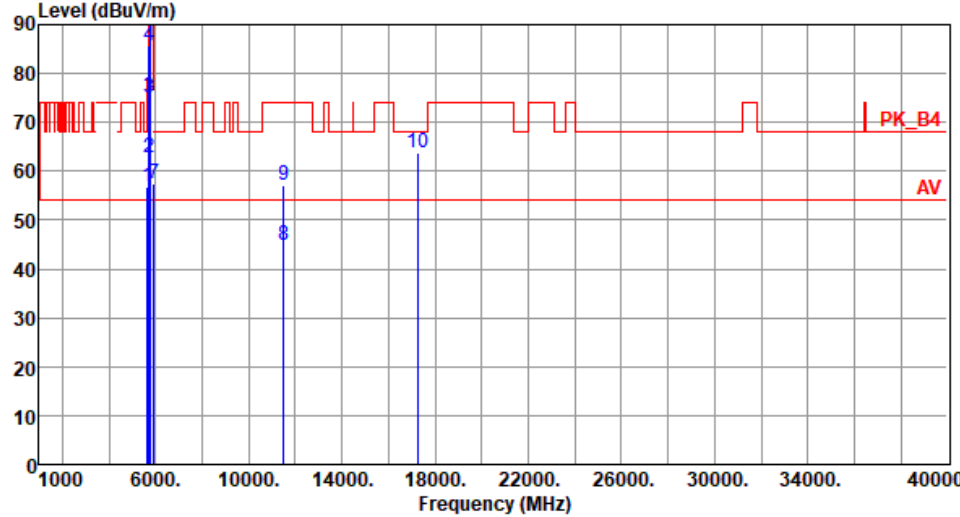
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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)	5745
Polarization	Vertical		



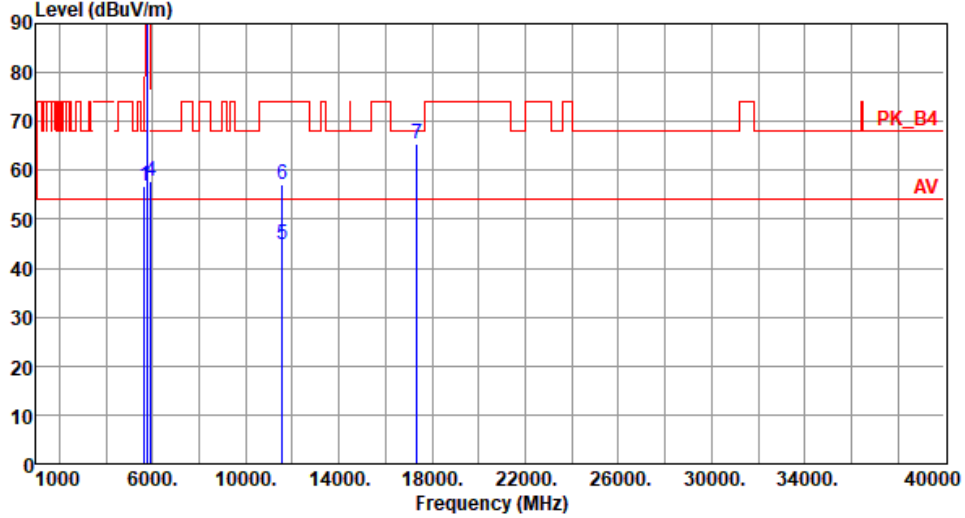
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.94	68.20	-11.26	52.40	4.54	Peak	130	202
2	5700.00	62.65	105.20	-42.55	57.97	4.68	Peak	130	202
3	5720.00	74.91	110.80	-35.89	70.10	4.81	Peak	130	202
4	5725.00	85.69	122.20	-36.51	80.84	4.85	Peak	130	202
5 *	5745.00	107.54			102.55	4.99	Average	130	202
6 *	5745.00	116.41			111.42	4.99	Peak	130	202
7	5925.00	57.48	68.20	-10.72	52.05	5.43	Peak	130	202
8	11490.00	44.86	54.00	-9.14	30.23	14.63	Average	100	32
9	11490.00	57.15	74.00	-16.85	42.52	14.63	Peak	100	32
10	17235.00	63.66	68.20	-4.54	45.90	17.76	Peak	100	48

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

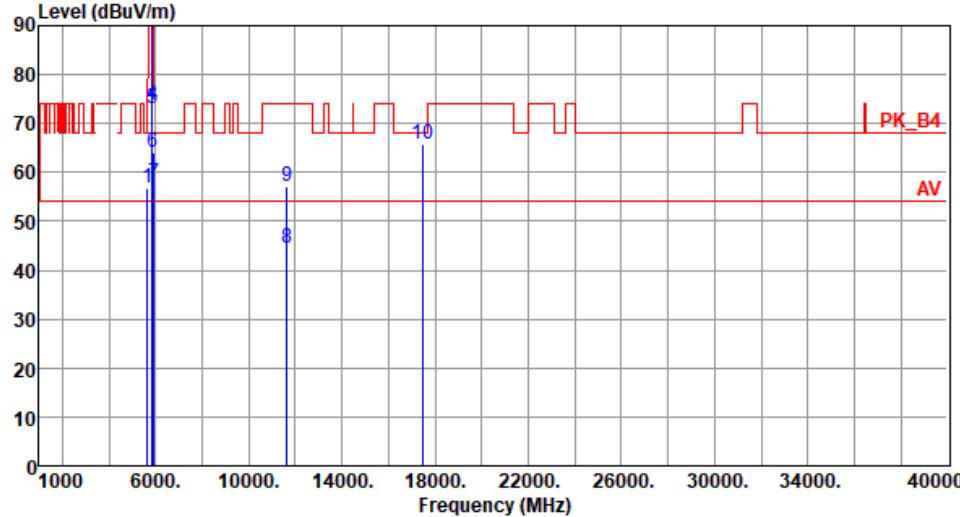
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



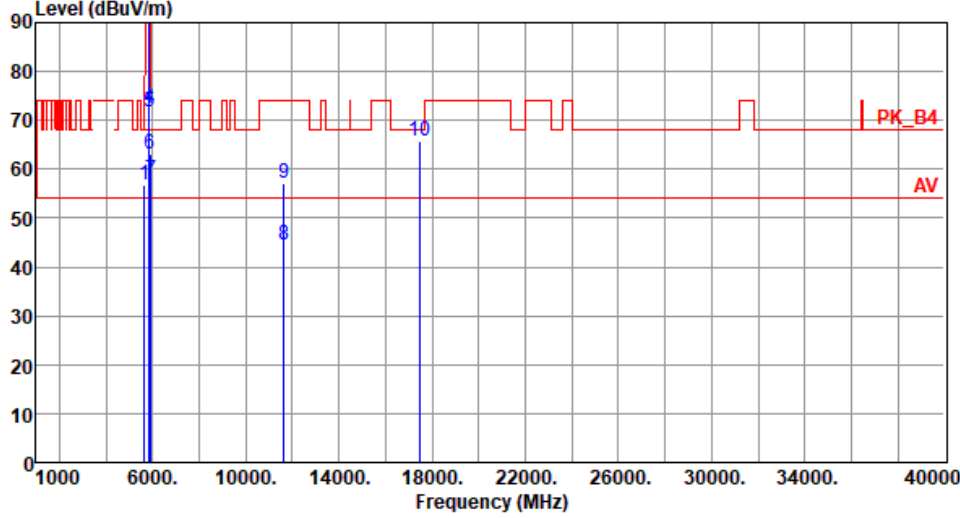
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.88	68.20	-11.32	52.34	4.54	Peak	100	9
2 *	5785.00	109.97			104.86	5.11	Average	100	9
3 *	5785.00	118.90			113.79	5.11	Peak	100	9
4	5925.00	57.86	68.20	-10.34	52.43	5.43	Peak	100	9
5	11570.00	44.76	54.00	-9.24	30.26	14.50	Average	100	150
6	11570.00	57.28	74.00	-16.72	42.78	14.50	Peak	100	150
7	17355.00	65.34	68.20	-2.86	46.98	18.36	Peak	185	106

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

Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
 <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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>56.78</td><td>68.20</td><td>-11.42</td><td>52.24</td><td>4.54</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>2 *</td><td>5825.00</td><td>109.84</td><td></td><td></td><td>104.55</td><td>5.29</td><td>Average</td><td>100</td><td>21</td></tr><tr><td>3 *</td><td>5825.00</td><td>118.88</td><td></td><td></td><td>113.59</td><td>5.29</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>4</td><td>5850.00</td><td>73.88</td><td>122.20</td><td>-48.32</td><td>68.43</td><td>5.45</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>5</td><td>5855.00</td><td>72.95</td><td>110.80</td><td>-37.85</td><td>67.51</td><td>5.44</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>6</td><td>5875.00</td><td>64.16</td><td>105.20</td><td>-41.04</td><td>58.72</td><td>5.44</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>7</td><td>5925.00</td><td>57.89</td><td>68.20</td><td>-10.31</td><td>52.46</td><td>5.43</td><td>Peak</td><td>100</td><td>21</td></tr><tr><td>8</td><td>11650.00</td><td>44.65</td><td>54.00</td><td>-9.35</td><td>30.44</td><td>14.21</td><td>Average</td><td>100</td><td>146</td></tr><tr><td>9</td><td>11650.00</td><td>57.16</td><td>74.00</td><td>-16.84</td><td>42.95</td><td>14.21</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>10</td><td>17475.00</td><td>65.74</td><td>68.20</td><td>-2.46</td><td>46.88</td><td>18.86</td><td>Peak</td><td>255</td><td>88</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	56.78	68.20	-11.42	52.24	4.54	Peak	100	21	2 *	5825.00	109.84			104.55	5.29	Average	100	21	3 *	5825.00	118.88			113.59	5.29	Peak	100	21	4	5850.00	73.88	122.20	-48.32	68.43	5.45	Peak	100	21	5	5855.00	72.95	110.80	-37.85	67.51	5.44	Peak	100	21	6	5875.00	64.16	105.20	-41.04	58.72	5.44	Peak	100	21	7	5925.00	57.89	68.20	-10.31	52.46	5.43	Peak	100	21	8	11650.00	44.65	54.00	-9.35	30.44	14.21	Average	100	146	9	11650.00	57.16	74.00	-16.84	42.95	14.21	Peak	100	146	10	17475.00	65.74	68.20	-2.46	46.88	18.86	Peak	255	88
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	5650.00	56.78	68.20	-11.42	52.24	4.54	Peak	100	21																																																																																																								
2 *	5825.00	109.84			104.55	5.29	Average	100	21																																																																																																								
3 *	5825.00	118.88			113.59	5.29	Peak	100	21																																																																																																								
4	5850.00	73.88	122.20	-48.32	68.43	5.45	Peak	100	21																																																																																																								
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7	5925.00	57.89	68.20	-10.31	52.46	5.43	Peak	100	21																																																																																																								
8	11650.00	44.65	54.00	-9.35	30.44	14.21	Average	100	146																																																																																																								
9	11650.00	57.16	74.00	-16.84	42.95	14.21	Peak	100	146																																																																																																								
10	17475.00	65.74	68.20	-2.46	46.88	18.86	Peak	255	88																																																																																																								
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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)	5825
Polarization	Vertical		



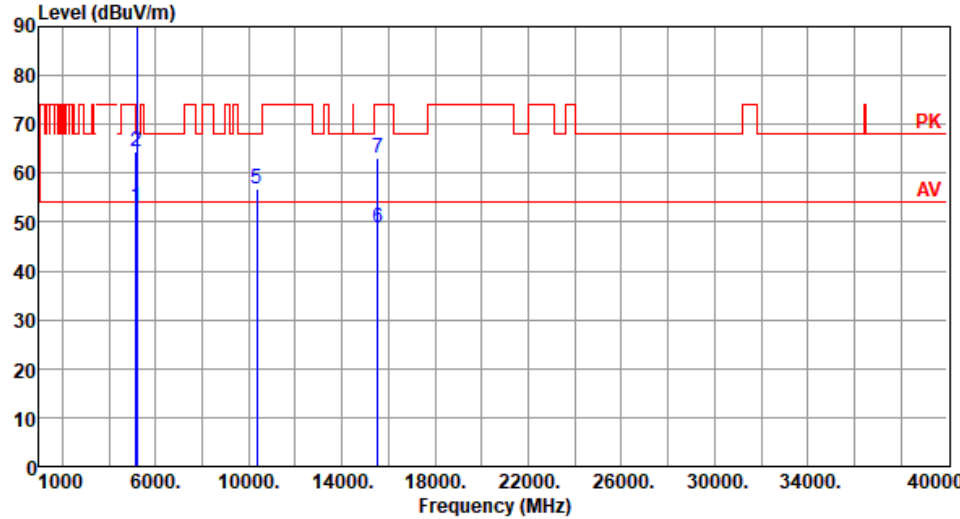
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.65	68.20	-11.55	52.11	4.54	Peak	119	194
2 *	5825.00	107.68			102.39	5.29	Average	119	194
3 *	5825.00	116.71			111.42	5.29	Peak	119	194
4	5850.00	72.54	122.20	-49.66	67.09	5.45	Peak	119	194
5	5855.00	71.62	110.80	-39.18	66.18	5.44	Peak	119	194
6	5875.00	63.15	105.20	-42.05	57.71	5.44	Peak	119	194
7	5925.00	57.84	68.20	-10.36	52.41	5.43	Peak	119	194
8	11650.00	44.58	54.00	-9.42	30.37	14.21	Average	100	102
9	11650.00	57.11	74.00	-16.89	42.90	14.21	Peak	100	102
10	17475.00	65.68	68.20	-2.52	46.82	18.86	Peak	100	34

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

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

Modulation	ax (HE20)		Test Freq. (MHz)		5180				
Polarization	Horizontal								
Level (dBUV/m) </									

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



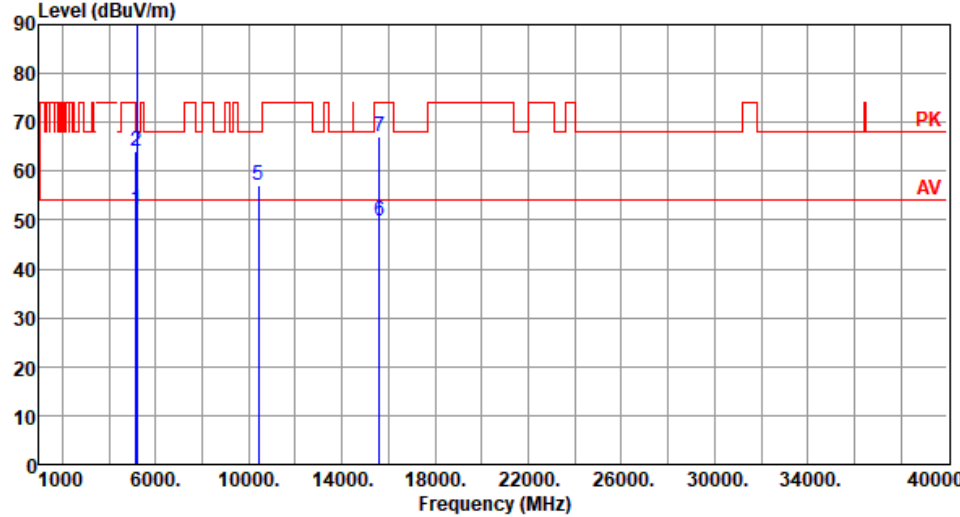
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.17	54.00	-0.83	48.53	4.64	Average	133	204
2	5150.00	64.33	74.00	-9.67	59.69	4.64	Peak	133	204
3 *	5180.00	103.13			98.67	4.46	Average	133	204
4 *	5180.00	113.14			108.68	4.46	Peak	133	204
5	10360.00	56.65	68.20	-11.55	42.46	14.19	Peak	104	58
6	15540.00	48.74	54.00	-5.26	33.83	14.91	Average	195	81
7	15540.00	63.25	74.00	-10.75	48.34	14.91	Peak	195	81

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

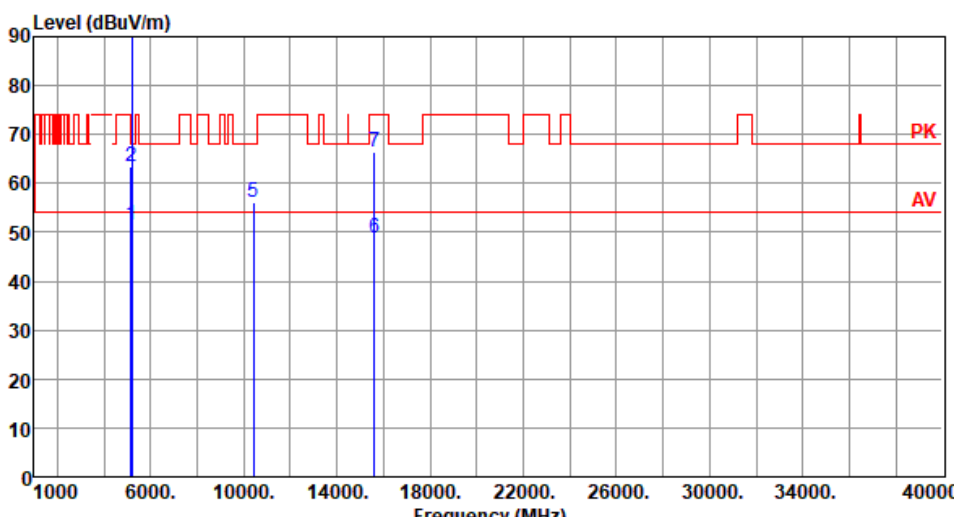
*Factor includes antenna factor , cable loss and amplifier gain

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)	5200																																																																																
Polarization	Horizontal																																																																																		
 <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</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>52.16</td><td>54.00</td><td>-1.84</td><td>47.52</td><td>4.64</td><td>Average</td><td>195</td><td>243</td></tr><tr><td>2</td><td>5150.00</td><td>64.23</td><td>74.00</td><td>-9.77</td><td>59.59</td><td>4.64</td><td>Peak</td><td>195</td><td>243</td></tr><tr><td>3 *</td><td>5200.00</td><td>109.69</td><td></td><td></td><td>105.34</td><td>4.35</td><td>Average</td><td>195</td><td>243</td></tr><tr><td>4 *</td><td>5200.00</td><td>118.61</td><td></td><td></td><td>114.26</td><td>4.35</td><td>Peak</td><td>195</td><td>243</td></tr><tr><td>5</td><td>10400.00</td><td>57.16</td><td>68.20</td><td>-11.04</td><td>42.86</td><td>14.30</td><td>Peak</td><td>100</td><td>158</td></tr><tr><td>6</td><td>15600.00</td><td>49.89</td><td>54.00</td><td>-4.11</td><td>35.25</td><td>14.64</td><td>Average</td><td>179</td><td>165</td></tr><tr><td>7</td><td>15600.00</td><td>67.05</td><td>74.00</td><td>-6.95</td><td>52.41</td><td>14.64</td><td>Peak</td><td>179</td><td>165</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	52.16	54.00	-1.84	47.52	4.64	Average	195	243	2	5150.00	64.23	74.00	-9.77	59.59	4.64	Peak	195	243	3 *	5200.00	109.69			105.34	4.35	Average	195	243	4 *	5200.00	118.61			114.26	4.35	Peak	195	243	5	10400.00	57.16	68.20	-11.04	42.86	14.30	Peak	100	158	6	15600.00	49.89	54.00	-4.11	35.25	14.64	Average	179	165	7	15600.00	67.05	74.00	-6.95	52.41	14.64	Peak	179	165
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
1	5150.00	52.16	54.00	-1.84	47.52	4.64	Average	195	243																																																																										
2	5150.00	64.23	74.00	-9.77	59.59	4.64	Peak	195	243																																																																										
3 *	5200.00	109.69			105.34	4.35	Average	195	243																																																																										
4 *	5200.00	118.61			114.26	4.35	Peak	195	243																																																																										
5	10400.00	57.16	68.20	-11.04	42.86	14.30	Peak	100	158																																																																										
6	15600.00	49.89	54.00	-4.11	35.25	14.64	Average	179	165																																																																										
7	15600.00	67.05	74.00	-6.95	52.41	14.64	Peak	179	165																																																																										
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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)	5200
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5150.00	51.39	54.00	-2.61	46.75	4.64	Average	134	206
2	5150.00	63.29	74.00	-10.71	58.65	4.64	Peak	134	206
3 *	5200.00	107.56			103.21	4.35	Average	134	206
4 *	5200.00	117.46			113.11	4.35	Peak	134	206
5	10400.00	56.19	68.20	-12.01	41.89	14.30	Peak	100	253
6	15600.00	48.85	54.00	-5.15	34.21	14.64	Average	221	142
7	15600.00	66.52	74.00	-7.48	51.88	14.64	Peak	221	142

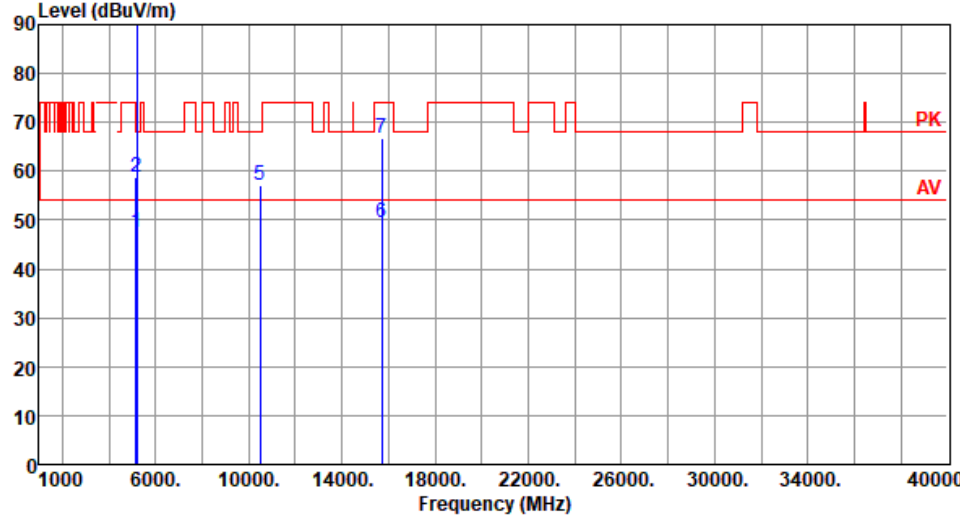
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5240
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5150.00	47.46	54.00	-6.54	42.82	4.64	Average	195	244
2	5150.00	58.90	74.00	-15.10	54.26	4.64	Peak	195	244
3 *	5240.00	109.44			105.23	4.21	Average	195	244
4 *	5240.00	118.67			114.46	4.21	Peak	195	244
5	10480.00	57.22	68.20	-10.98	42.76	14.46	Peak	100	160
6	15720.00	49.34	54.00	-4.66	35.13	14.21	Average	175	166
7	15720.00	66.77	74.00	-7.23	52.56	14.21	Peak	175	166

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

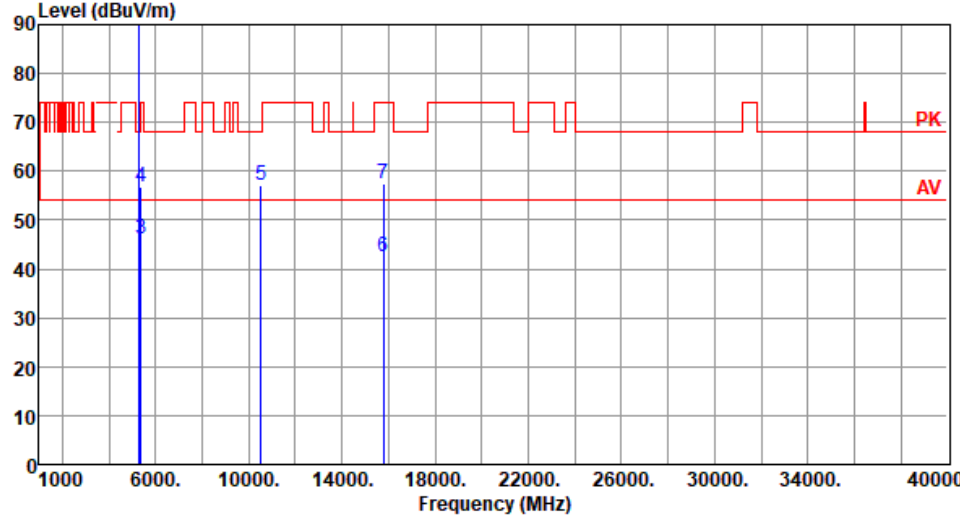
*Factor includes antenna factor , cable loss and amplifier gain

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

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

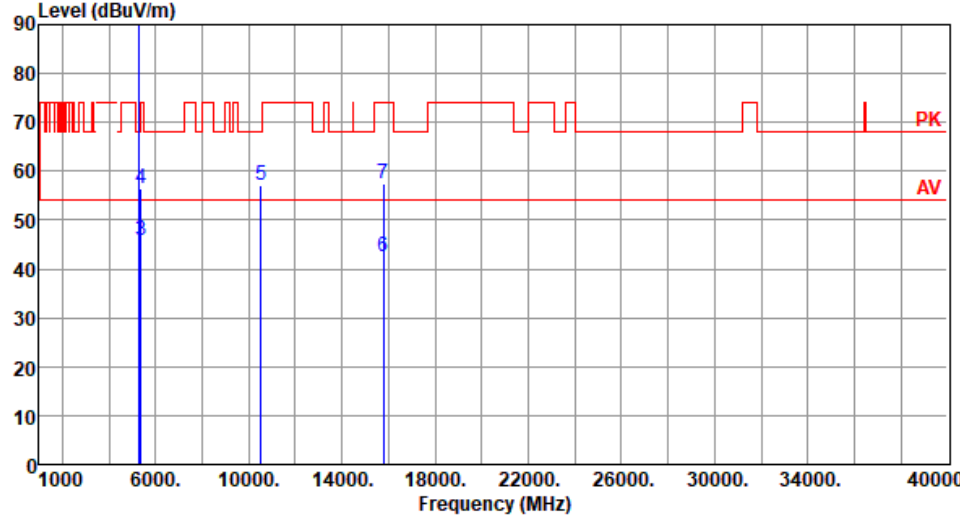
Modulation	ax (HE20)	Test Freq. (MHz)	5240
Polarization	Vertical		
Level (dBUV/m)			

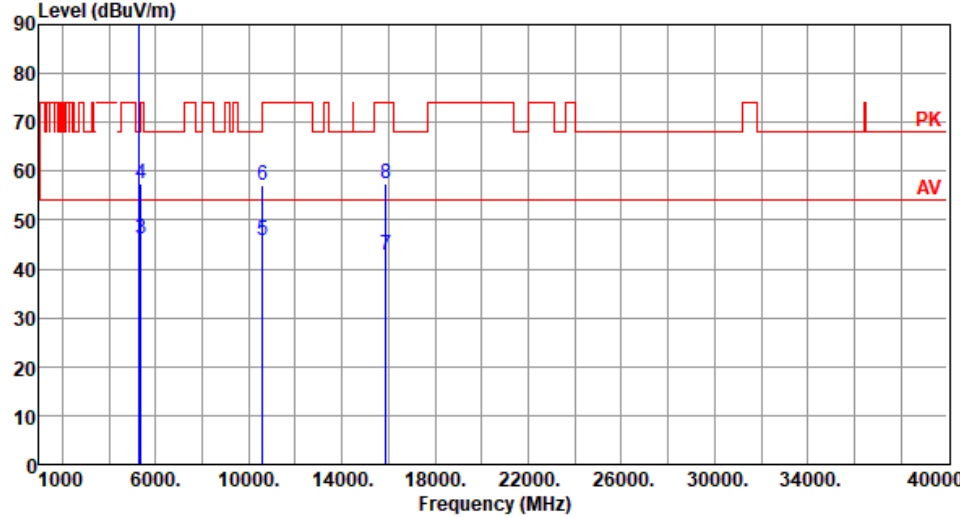
Modulation	ax (HE20)	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	
	MHz	level	dBuV/m		reading			High	Table	
					dBuV			cm	deg	
1	*	5260.00	103.25		99.10	4.15	Average	179	16	
2	*	5260.00	112.32		108.17	4.15	Peak	179	16	
3		5350.00	46.09	54.00	-7.91	42.15	3.94	Average	179	16
4		5350.00	56.63	74.00	-17.37	52.69	3.94	Peak	179	16
5		10520.00	57.11	68.20	-11.09	42.65	14.46	Peak	100	69
6		15780.00	42.63	54.00	-11.37	28.45	14.18	Average	100	85
7		15780.00	57.33	74.00	-16.67	43.15	14.18	Peak	100	85

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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																																																																																		
 <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</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5260.00</td><td>101.15</td><td></td><td></td><td>97.00</td><td>4.15</td><td>Average</td><td>129</td><td>208</td></tr><tr><td>2</td><td>5260.00</td><td>110.24</td><td></td><td></td><td>106.09</td><td>4.15</td><td>Peak</td><td>129</td><td>208</td></tr><tr><td>3</td><td>5350.00</td><td>45.94</td><td>54.00</td><td>-8.06</td><td>42.00</td><td>3.94</td><td>Average</td><td>129</td><td>208</td></tr><tr><td>4</td><td>5350.00</td><td>56.52</td><td>74.00</td><td>-17.48</td><td>52.58</td><td>3.94</td><td>Peak</td><td>129</td><td>208</td></tr><tr><td>5</td><td>10520.00</td><td>57.06</td><td>68.20</td><td>-11.14</td><td>42.60</td><td>14.46</td><td>Peak</td><td>100</td><td>44</td></tr><tr><td>6</td><td>15780.00</td><td>42.51</td><td>54.00</td><td>-11.49</td><td>28.33</td><td>14.18</td><td>Average</td><td>100</td><td>47</td></tr><tr><td>7</td><td>15780.00</td><td>57.29</td><td>74.00</td><td>-16.71</td><td>43.11</td><td>14.18</td><td>Peak</td><td>100</td><td>47</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5260.00	101.15			97.00	4.15	Average	129	208	2	5260.00	110.24			106.09	4.15	Peak	129	208	3	5350.00	45.94	54.00	-8.06	42.00	3.94	Average	129	208	4	5350.00	56.52	74.00	-17.48	52.58	3.94	Peak	129	208	5	10520.00	57.06	68.20	-11.14	42.60	14.46	Peak	100	44	6	15780.00	42.51	54.00	-11.49	28.33	14.18	Average	100	47	7	15780.00	57.29	74.00	-16.71	43.11	14.18	Peak	100	47
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
1	5260.00	101.15			97.00	4.15	Average	129	208																																																																										
2	5260.00	110.24			106.09	4.15	Peak	129	208																																																																										
3	5350.00	45.94	54.00	-8.06	42.00	3.94	Average	129	208																																																																										
4	5350.00	56.52	74.00	-17.48	52.58	3.94	Peak	129	208																																																																										
5	10520.00	57.06	68.20	-11.14	42.60	14.46	Peak	100	44																																																																										
6	15780.00	42.51	54.00	-11.49	28.33	14.18	Average	100	47																																																																										
7	15780.00	57.29	74.00	-16.71	43.11	14.18	Peak	100	47																																																																										
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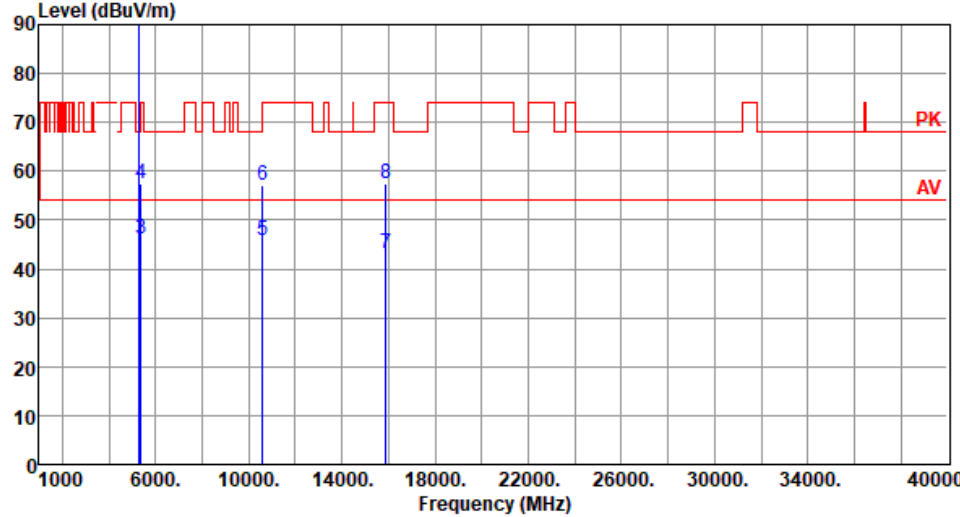
Modulation	ax (HE20)	Test Freq. (MHz)	5300						
Polarization	Horizontal								
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1 *	5300.00	102.98			98.97	4.01	Average	177	20
2 *	5300.00	112.34			108.33	4.01	Peak	177	20
3	5350.00	46.14	54.00	-7.86	42.20	3.94	Average	177	20
4	5350.00	57.40	74.00	-16.60	53.46	3.94	Peak	177	20
5	10600.00	45.84	54.00	-8.16	31.56	14.28	Average	100	72
6	10600.00	57.03	74.00	-16.97	42.75	14.28	Peak	100	72
7	15900.00	42.95	54.00	-11.05	28.70	14.25	Average	100	87
8	15900.00	57.57	74.00	-16.43	43.32	14.25	Peak	100	87

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

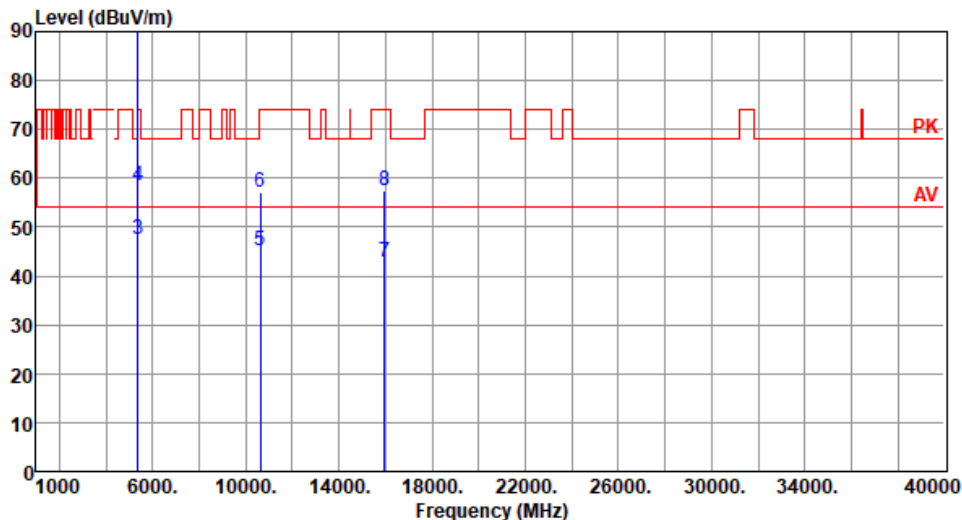
Modulation	ax (HE20)	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	
1	*	5300.00	100.85		96.84	4.01	Average	133	201	
2	*	5300.00	110.26		106.25	4.01	Peak	133	201	
3		5350.00	46.08	54.00	-7.92	42.14	3.94	Average	133	201
4		5350.00	57.29	74.00	-16.71	53.35	3.94	Peak	133	201
5		10600.00	45.73	54.00	-8.27	31.45	14.28	Average	100	71
6		10600.00	57.11	74.00	-16.89	42.83	14.28	Peak	100	71
7		15900.00	43.10	54.00	-10.90	28.85	14.25	Average	100	91
8		15900.00	57.35	74.00	-16.65	43.10	14.25	Peak	100	91

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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)	5320
Polarization	Horizontal		



The spectrum plot shows the emission level in dBUV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (1000 to 40000). A red signal line shows several peaks, with the highest peak at 5320 MHz. A blue limit line is shown at approximately 55 dBUV/m. The plot also includes a red line labeled 'PK' and a blue line labeled 'AV'.

		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m		reading			High	Table
			dBuV/m			dBuV			cm	deg
1	*	5320.00	102.99			99.01	3.98	Average	176	21
2	*	5320.00	111.97			107.99	3.98	Peak	176	21
3		5350.00	47.40	54.00	-6.60	43.46	3.94	Average	176	21
4		5350.00	58.53	74.00	-15.47	54.59	3.94	Peak	176	21
5		10640.00	45.21	54.00	-8.79	30.83	14.38	Average	105	29
6		10640.00	56.97	74.00	-17.03	42.59	14.38	Peak	105	29
7		15960.00	42.76	54.00	-11.24	28.54	14.22	Average	100	88
8		15960.00	57.29	74.00	-16.71	43.07	14.22	Peak	100	88

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

*Factor includes antenna factor , cable loss and amplifier gain

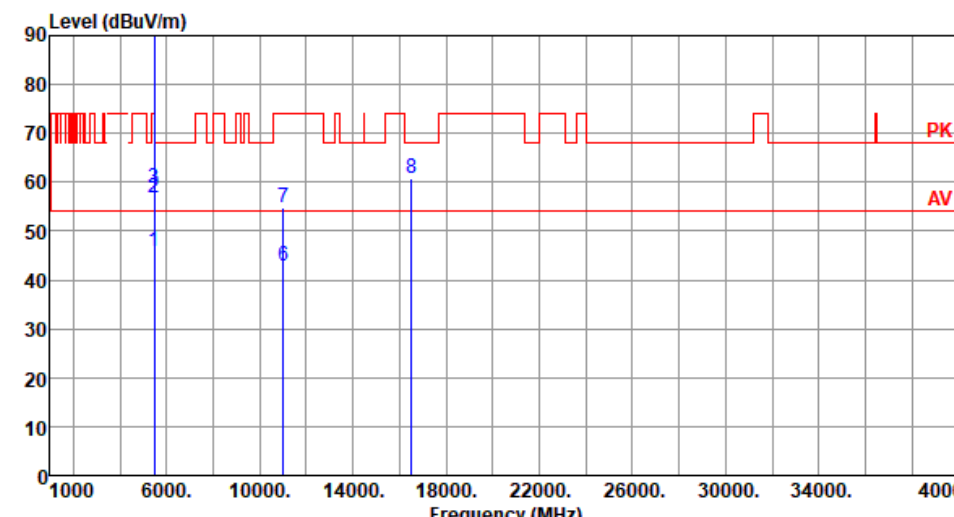
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

Modulation	ax (HE20)	Test Freq. (MHz)	5320
Polarization	Vertical		
Level (dBuV/m)			

Modulation	ax (HE20)	Test Freq. (MHz)	5500
Polarization	Horizontal		
Level (dBUV/m) <			

Modulation	ax (HE20)	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	45.82	54.00	-8.18	41.37	4.45	Average	134	196
2	5460.00	56.69	74.00	-17.31	52.24	4.45	Peak	134	196
3	5470.00	58.81	68.20	-9.39	54.31	4.50	Peak	134	196
4 *	5500.00	100.15			95.50	4.65	Average	134	196
5 *	5500.00	109.08			104.43	4.65	Peak	134	196
6	11000.00	42.76	54.00	-11.24	27.88	14.88	Average	100	55
7	11000.00	54.93	74.00	-19.07	40.05	14.88	Peak	100	55
8	16500.00	60.88	68.20	-7.32	44.69	16.19	Peak	100	42

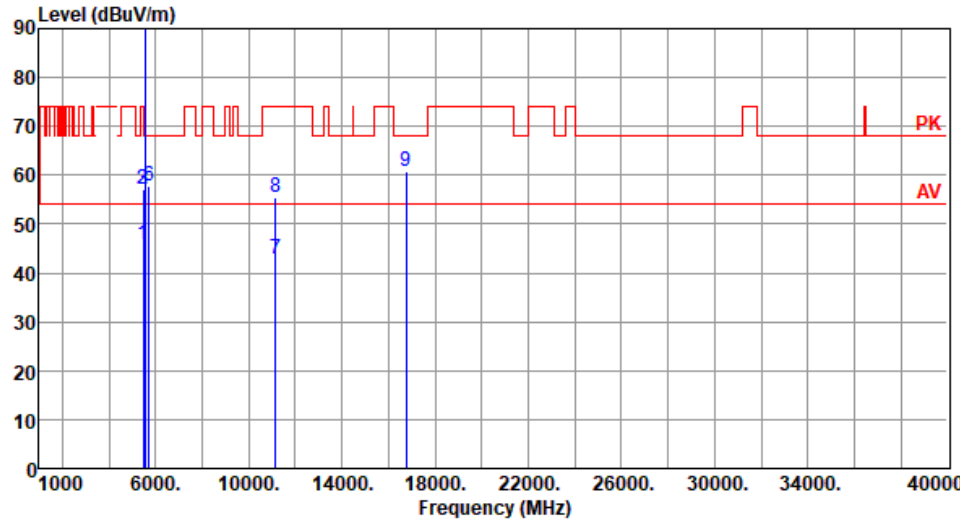
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5580
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m		reading			High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.84	54.00	-8.16	41.39	4.45	Average	158	20
2	5460.00	57.02	74.00	-16.98	52.57	4.45	Peak	158	20
3	5470.00	57.18	68.20	-11.02	52.68	4.50	Peak	158	20
4 *	5580.00	102.79			98.25	4.54	Average	158	20
5 *	5580.00	112.12			107.58	4.54	Peak	158	20
6	5725.00	57.69	68.20	-10.51	52.84	4.85	Peak	158	20
7	11160.00	42.80	54.00	-11.20	28.42	14.38	Average	100	92
8	11160.00	55.60	74.00	-18.40	41.22	14.38	Peak	100	92
9	16740.00	60.72	68.20	-7.48	43.25	17.47	Peak	151	86

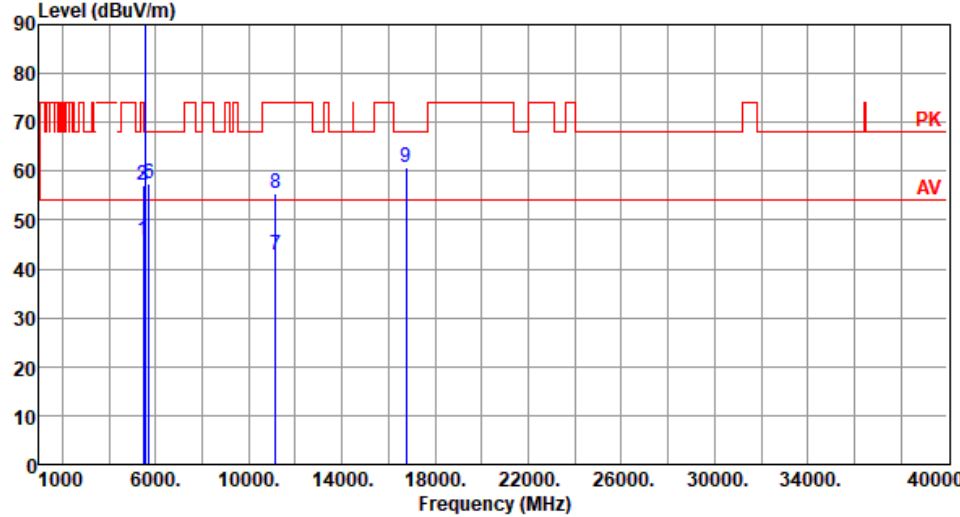
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5580
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m		reading			High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.77	54.00	-8.23	41.32	4.45	Average	136	202
2	5460.00	56.98	74.00	-17.02	52.53	4.45	Peak	136	202
3	5470.00	57.09	68.20	-11.11	52.59	4.50	Peak	136	202
4 *	5580.00	100.65			96.11	4.54	Average	136	202
5 *	5580.00	110.04			105.50	4.54	Peak	136	202
6	5725.00	57.56	68.20	-10.64	52.71	4.85	Peak	136	202
7	11160.00	42.77	54.00	-11.23	28.39	14.38	Average	100	75
8	11160.00	55.30	74.00	-18.70	40.92	14.38	Peak	100	80
9	16740.00	60.70	68.20	-7.50	43.23	17.47	Peak	100	95

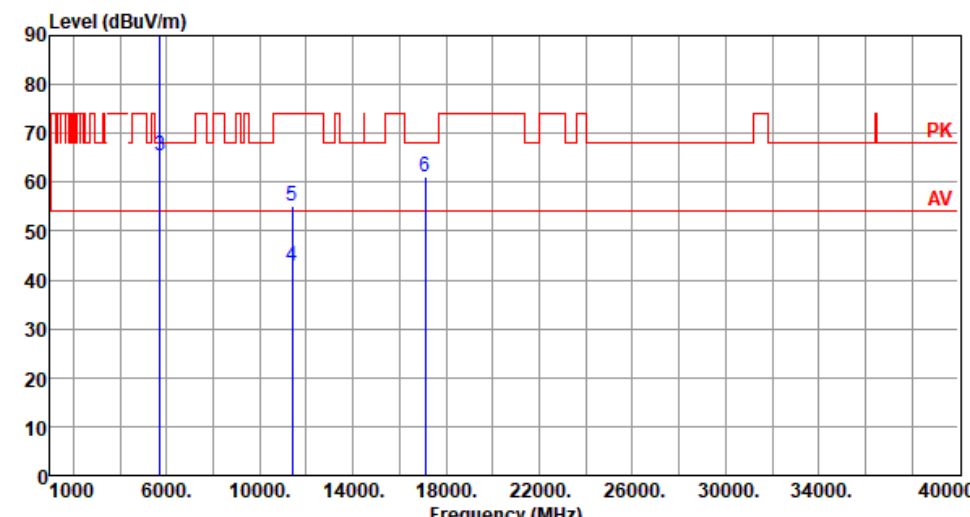
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

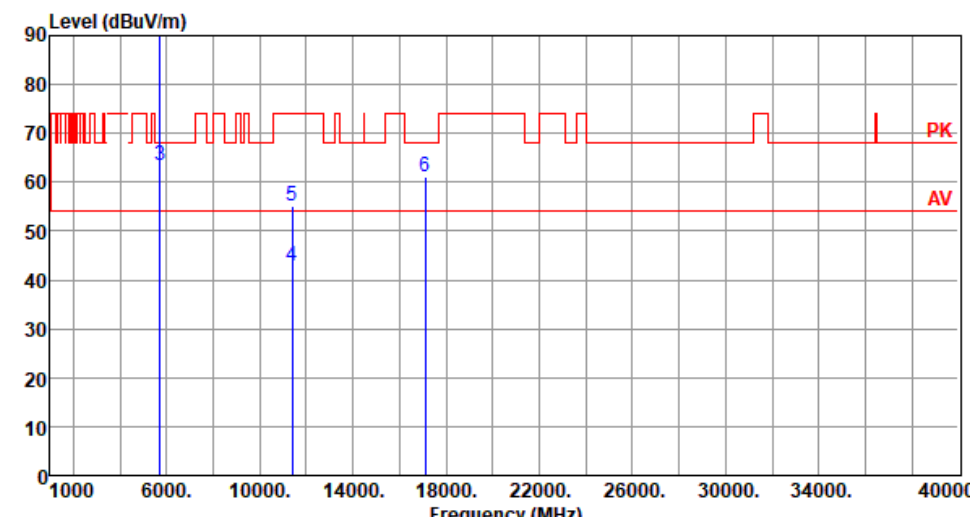
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	ax (HE20)	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	*	5700.00	102.36		97.68	4.68	Average	174	18
2	*	5700.00	111.66		106.98	4.68	Peak	174	18
3		5725.00	65.40	68.20	60.55	4.85	Peak	174	18
4		11400.00	42.79	54.00	28.11	14.68	Average	105	86
5		11400.00	55.11	74.00	40.43	14.68	Peak	105	86
6		17100.00	61.04	68.20	43.36	17.68	Peak	121	55

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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																																																																																																								
 <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>dBuV/m</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></th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5700.00</td><td>100.25</td><td></td><td></td><td>95.57</td><td>4.68</td><td>Average</td><td>135</td><td>208</td></tr><tr><td>2</td><td>*</td><td>5700.00</td><td>109.58</td><td></td><td></td><td>104.90</td><td>4.68</td><td>Peak</td><td>135</td><td>208</td></tr><tr><td>3</td><td></td><td>5725.00</td><td>63.45</td><td>68.20</td><td>-4.75</td><td>58.60</td><td>4.85</td><td>Peak</td><td>135</td><td>208</td></tr><tr><td>4</td><td></td><td>11400.00</td><td>42.68</td><td>54.00</td><td>-11.32</td><td>28.00</td><td>14.68</td><td>Average</td><td>100</td><td>43</td></tr><tr><td>5</td><td></td><td>11400.00</td><td>55.05</td><td>74.00</td><td>-18.95</td><td>40.37</td><td>14.68</td><td>Peak</td><td>100</td><td>43</td></tr><tr><td>6</td><td></td><td>17100.00</td><td>61.15</td><td>68.20</td><td>-7.05</td><td>43.47</td><td>17.68</td><td>Peak</td><td>114</td><td>83</td></tr></tbody></table>									Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level	dBuV/m		reading			High	Table				dBuV/m		dB	dBuV	dB		cm	deg	1	*	5700.00	100.25			95.57	4.68	Average	135	208	2	*	5700.00	109.58			104.90	4.68	Peak	135	208	3		5725.00	63.45	68.20	-4.75	58.60	4.85	Peak	135	208	4		11400.00	42.68	54.00	-11.32	28.00	14.68	Average	100	43	5		11400.00	55.05	74.00	-18.95	40.37	14.68	Peak	100	43	6		17100.00	61.15	68.20	-7.05	43.47	17.68	Peak	114	83
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																															
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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		

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.91	54.00	-8.09	41.46	4.45	Average	175	19
2	5460.00	56.89	74.00	-17.11	52.44	4.45	Peak	175	19
3	5470.00	56.95	68.20	-11.25	52.45	4.50	Peak	175	19
4 *	5720.00	101.28			96.47	4.81	Average	175	19
5 *	5720.00	110.59			105.78	4.81	Peak	175	19
6	5850.00	59.08	68.20	-9.12	53.63	5.45	Peak	175	19
7	11440.00	42.83	54.00	-11.17	28.17	14.66	Average	100	39
8	11440.00	55.24	74.00	-18.76	40.58	14.66	Peak	100	39
9	17160.00	61.24	68.20	-6.96	43.59	17.65	Peak	100	51

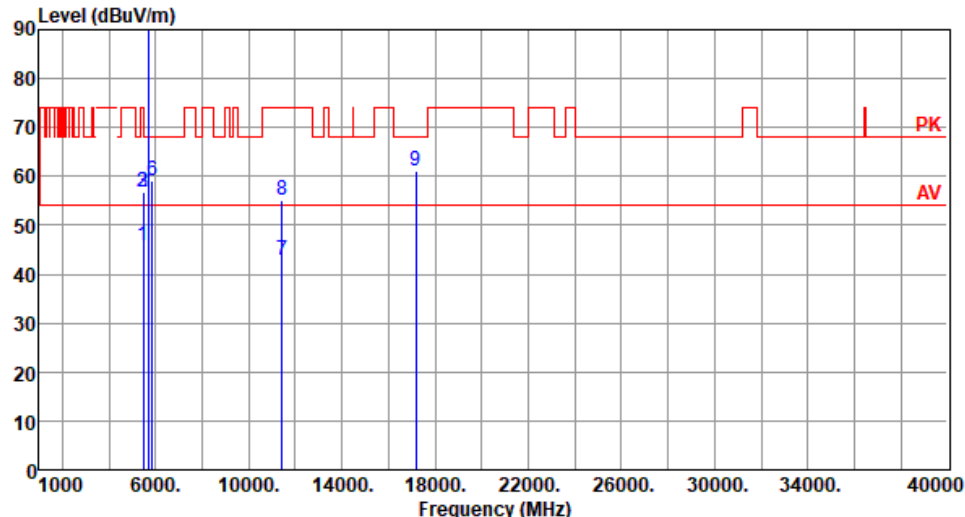
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.89	54.00	-8.11	41.44	4.45	Average	130	202
2	5460.00	56.84	74.00	-17.16	52.39	4.45	Peak	130	202
3	5470.00	56.92	68.20	-11.28	52.42	4.50	Peak	130	202
4 *	5720.00	99.16			94.35	4.81	Average	130	202
5 *	5720.00	108.58			103.77	4.81	Peak	130	202
6	5850.00	59.02	68.20	-9.18	53.57	5.45	Peak	130	202
7	11440.00	42.76	54.00	-11.24	28.10	14.66	Average	100	55
8	11440.00	55.15	74.00	-18.85	40.49	14.66	Peak	100	55
9	17160.00	61.18	68.20	-7.02	43.53	17.65	Peak	100	32

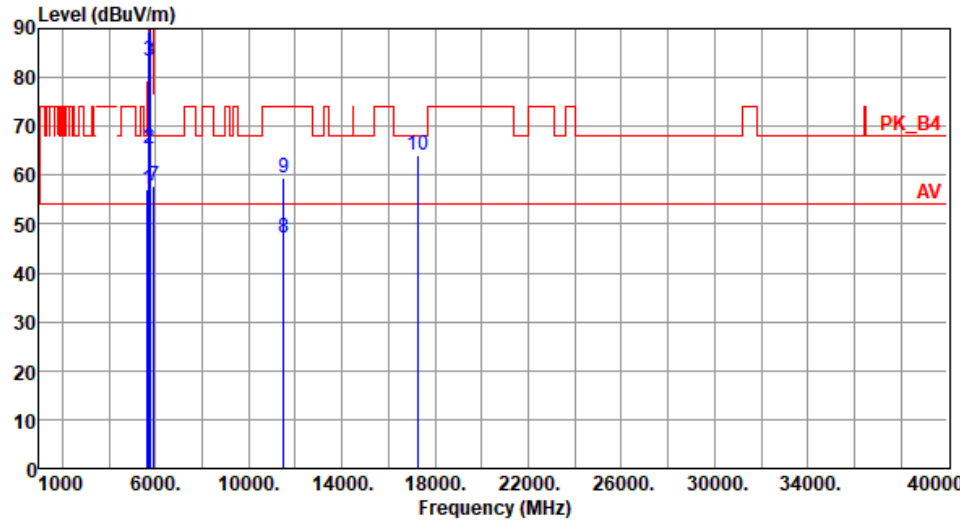
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	Horizontal		



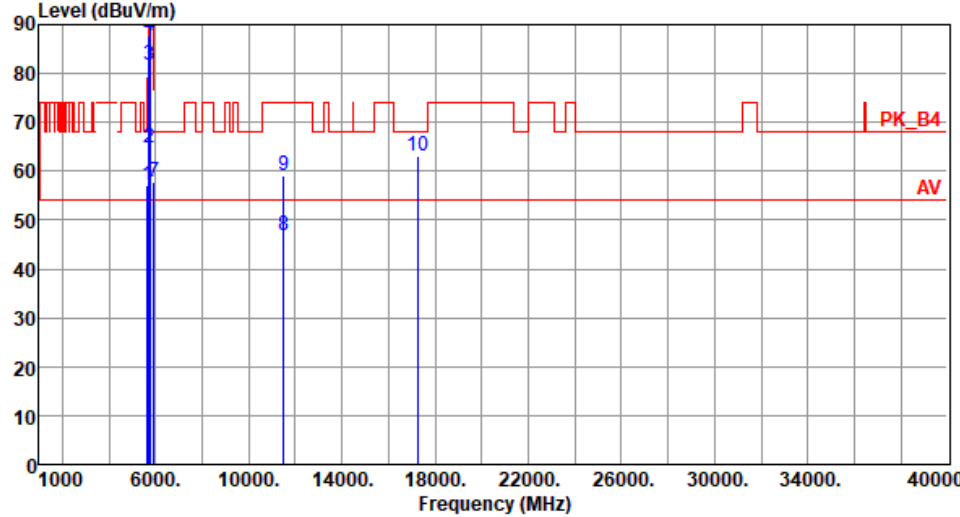
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.03	68.20	-11.17	52.49	4.54	Peak	100	18
2	5700.00	65.34	105.20	-39.86	60.66	4.68	Peak	100	18
3	5720.00	83.20	110.80	-27.60	78.39	4.81	Peak	100	18
4	5725.00	89.40	122.20	-32.80	84.55	4.85	Peak	100	18
5 *	5745.00	108.26			103.27	4.99	Average	100	18
6 *	5745.00	117.04			112.05	4.99	Peak	100	18
7	5925.00	57.80	68.20	-10.40	52.37	5.43	Peak	100	18
8	11490.00	47.10	54.00	-6.90	32.47	14.63	Average	125	143
9	11490.00	59.33	74.00	-14.67	44.70	14.63	Peak	125	143
10	17235.00	64.00	68.20	-4.20	46.24	17.76	Peak	205	72

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

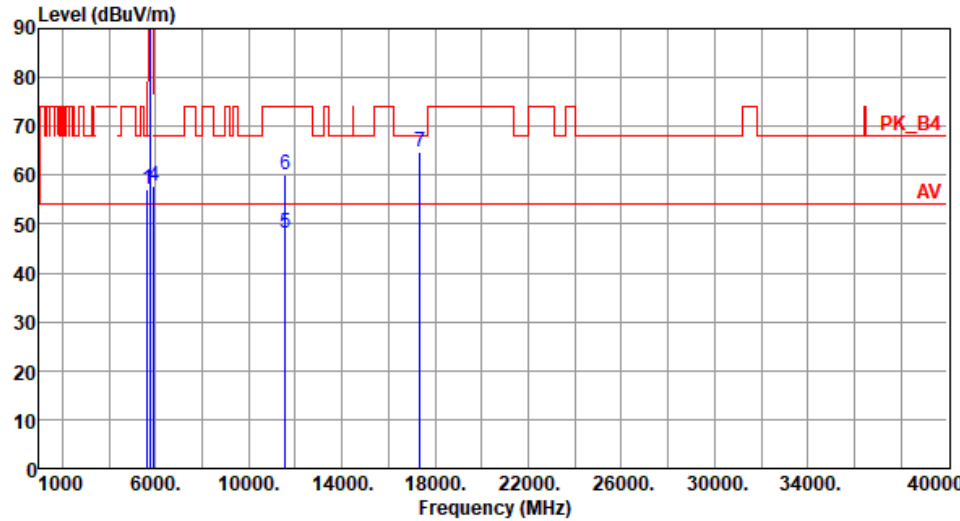


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.98	68.20	-11.22	52.44	4.54	Peak	133	205
2	5700.00	64.82	105.20	-40.38	60.14	4.68	Peak	133	205
3	5720.00	81.69	110.80	-29.11	76.88	4.81	Peak	133	205
4	5725.00	87.59	122.20	-34.61	82.74	4.85	Peak	133	205
5 *	5745.00	106.19			101.20	4.99	Average	133	205
6 *	5745.00	115.02			110.03	4.99	Peak	133	205
7	5925.00	57.64	68.20	-10.56	52.21	5.43	Peak	133	205
8	11490.00	46.98	54.00	-7.02	32.35	14.63	Average	121	145
9	11490.00	59.21	74.00	-14.79	44.58	14.63	Peak	121	145
10	17235.00	63.16	68.20	-5.04	45.40	17.76	Peak	100	235

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

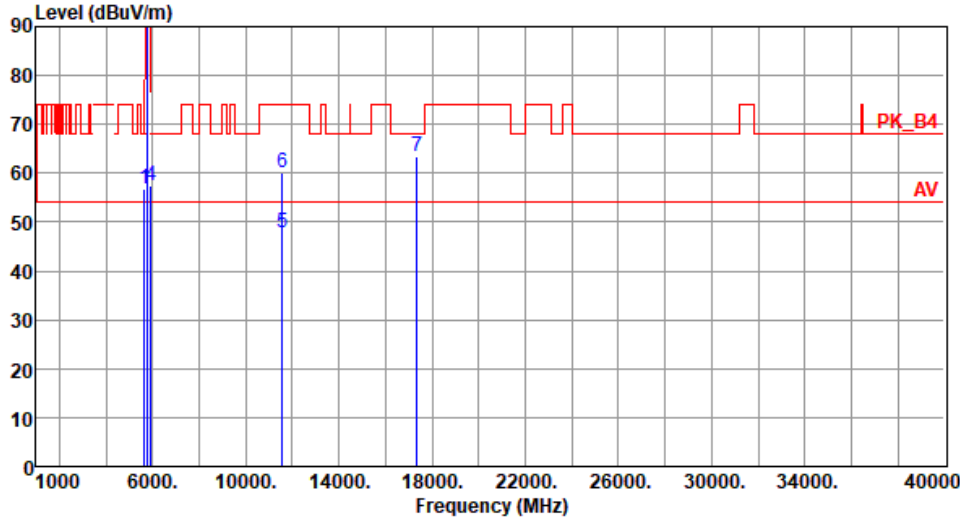
Modulation	ax (HE20)	Test Freq. (MHz)	5785						
Polarization	Horizontal								
									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.01	68.20	-11.19	52.47	4.54	Peak	100	7
2 *	5785.00	108.85			103.74	5.11	Average	100	7
3 *	5785.00	117.96			112.85	5.11	Peak	100	7
4	5925.00	57.77	68.20	-10.43	52.34	5.43	Peak	100	7
5	11570.00	48.25	54.00	-5.75	33.75	14.50	Average	100	122
6	11570.00	60.27	74.00	-13.73	45.77	14.50	Peak	100	122
7	17355.00	64.68	68.20	-3.52	46.32	18.36	Peak	229	111

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



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.87	68.20	-11.33	52.33	4.54	Peak	100	25
2 *	5785.00	106.92			101.81	5.11	Average	100	25
3 *	5785.00	116.20			111.09	5.11	Peak	100	25
4	5925.00	57.54	68.20	-10.66	52.11	5.43	Peak	100	25
5	11570.00	47.75	54.00	-6.25	33.25	14.50	Average	131	142
6	11570.00	60.27	74.00	-13.73	45.77	14.50	Peak	131	142
7	17355.00	63.47	68.20	-4.73	45.11	18.36	Peak	100	321

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

	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5650.00	56.89	68.20	-11.31	52.35	4.54	Peak	100	3
2 *	5825.00	108.62			103.33	5.29	Average	100	3
3 *	5825.00	117.68			112.39	5.29	Peak	100	3
4	5850.00	79.28	122.20	-42.92	73.83	5.45	Peak	100	3
5	5855.00	73.58	110.80	-37.22	68.14	5.44	Peak	100	3
6	5875.00	64.50	105.20	-40.70	59.06	5.44	Peak	100	3
7	5925.00	58.12	68.20	-10.08	52.69	5.43	Peak	100	3
8	11650.00	48.06	54.00	-5.94	33.85	14.21	Average	100	123
9	11650.00	60.09	74.00	-13.91	45.88	14.21	Peak	100	123
10	17475.00	64.97	68.20	-3.23	46.11	18.86	Peak	246	85

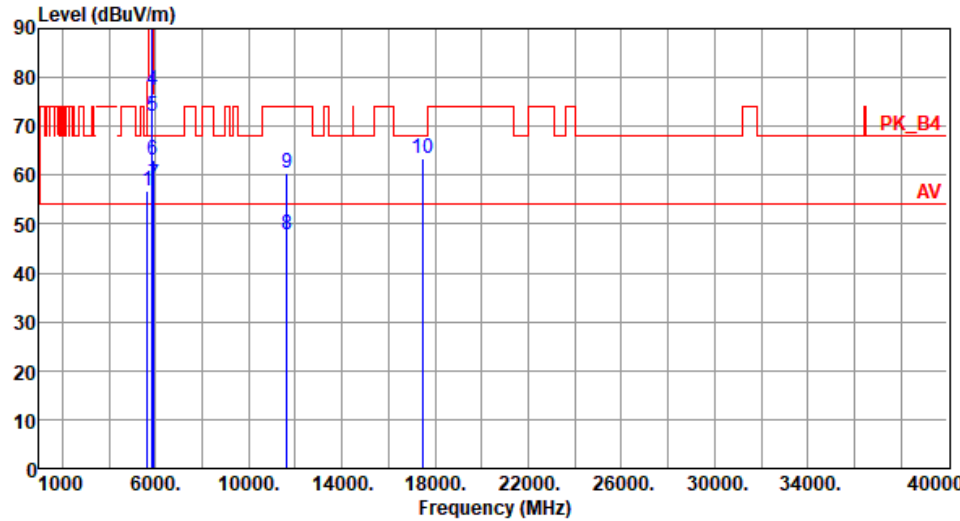
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.82	68.20	-11.38	52.28	4.54	Peak	128	211
2 *	5825.00	106.52			101.23	5.29	Average	128	211
3 *	5825.00	115.56			110.27	5.29	Peak	128	211
4	5850.00	77.46	122.20	-44.74	72.01	5.45	Peak	128	211
5	5855.00	72.06	110.80	-38.74	66.62	5.44	Peak	128	211
6	5875.00	63.26	105.20	-41.94	57.82	5.44	Peak	128	211
7	5925.00	58.07	68.20	-10.13	52.64	5.43	Peak	128	211
8	11650.00	47.81	54.00	-6.19	33.60	14.21	Average	133	145
9	11650.00	60.32	74.00	-13.68	46.11	14.21	Peak	133	145
10	17475.00	63.54	68.20	-4.66	44.68	18.86	Peak	100	325

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

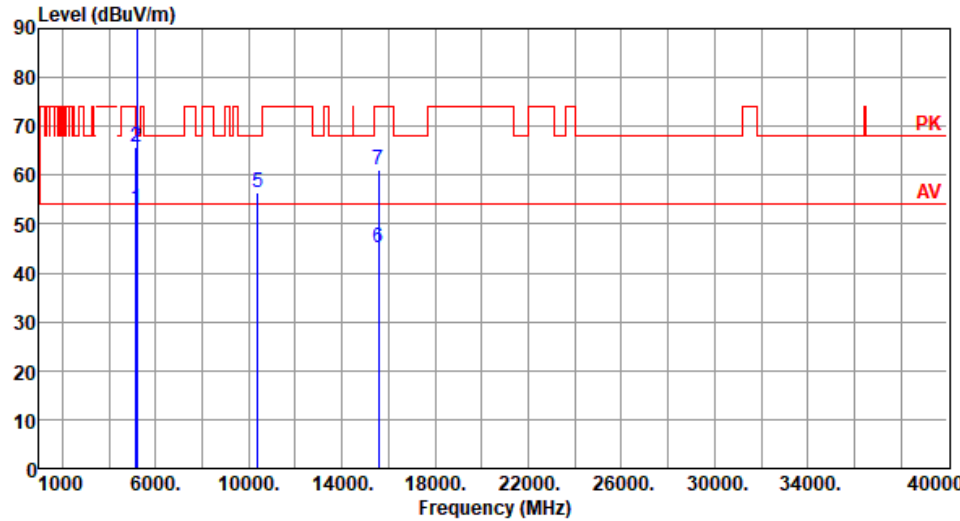
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

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

Modulation	ax (HE40)		Test Freq. (MHz)		5190				
Polarization	Horizontal								
Level (dBUV/m) <									

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



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5150.00	53.27	54.00	-0.73	48.63	4.64	Average	138	208
2	5150.00	65.69	74.00	-8.31	61.05	4.64	Peak	138	208
3 *	5190.00	99.96			95.55	4.41	Average	138	208
4 *	5190.00	109.08			104.67	4.41	Peak	138	208
5	10380.00	56.42	68.20	-11.78	42.18	14.24	Peak	104	53
6	15570.00	45.22	54.00	-8.78	30.44	14.78	Average	194	88
7	15570.00	61.15	74.00	-12.85	46.37	14.78	Peak	194	88

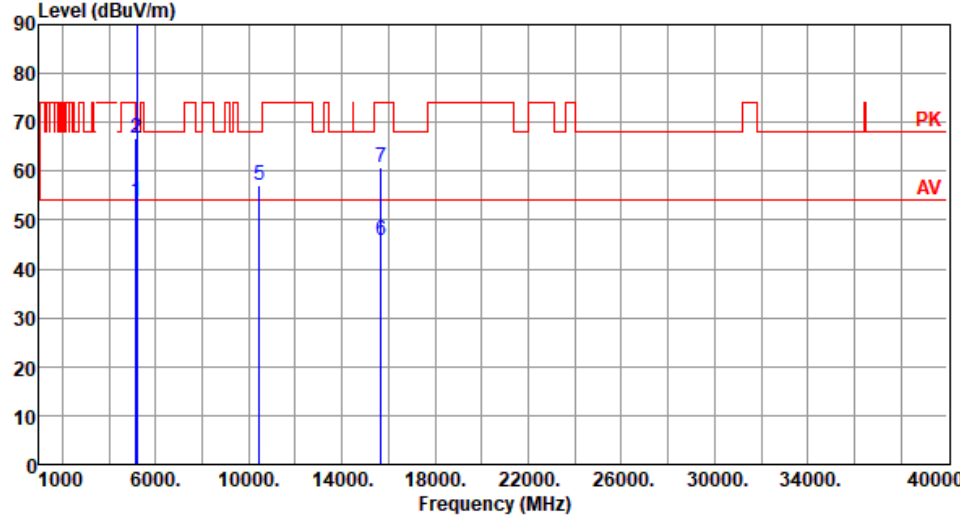
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Horizontal		



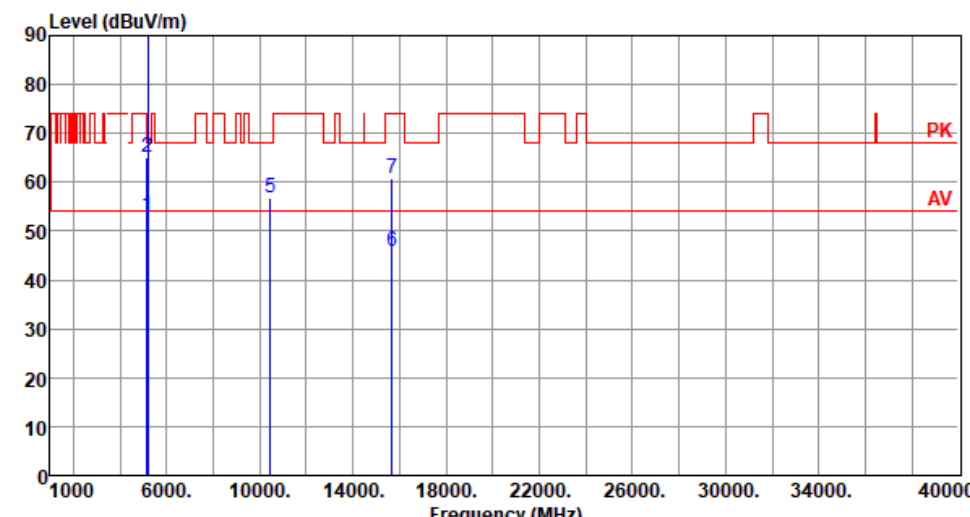
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.69	54.00	-0.31	49.05	4.64	Average	176	246
2	5150.00	66.59	74.00	-7.41	61.95	4.64	Peak	176	246
3 *	5230.00	106.77			102.52	4.25	Average	176	246
4 *	5230.00	115.37			111.12	4.25	Peak	176	246
5	10460.00	56.96	68.20	-11.24	42.54	14.42	Peak	100	60
6	15690.00	45.82	54.00	-8.18	31.56	14.26	Average	108	96
7	15690.00	60.92	74.00	-13.08	46.66	14.26	Peak	108	96

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



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5150.00	53.09	54.00	-0.91	48.45	4.64	Average	135	205
2	5150.00	65.06	74.00	-8.94	60.42	4.64	Peak	135	205
3 *	5230.00	104.74			100.49	4.25	Average	135	205
4 *	5230.00	113.83			109.58	4.25	Peak	135	205
5	10460.00	56.84	68.20	-11.36	42.42	14.42	Peak	100	52
6	15690.00	45.77	54.00	-8.23	31.51	14.26	Average	110	24
7	15690.00	60.89	74.00	-13.11	46.63	14.26	Peak	110	24

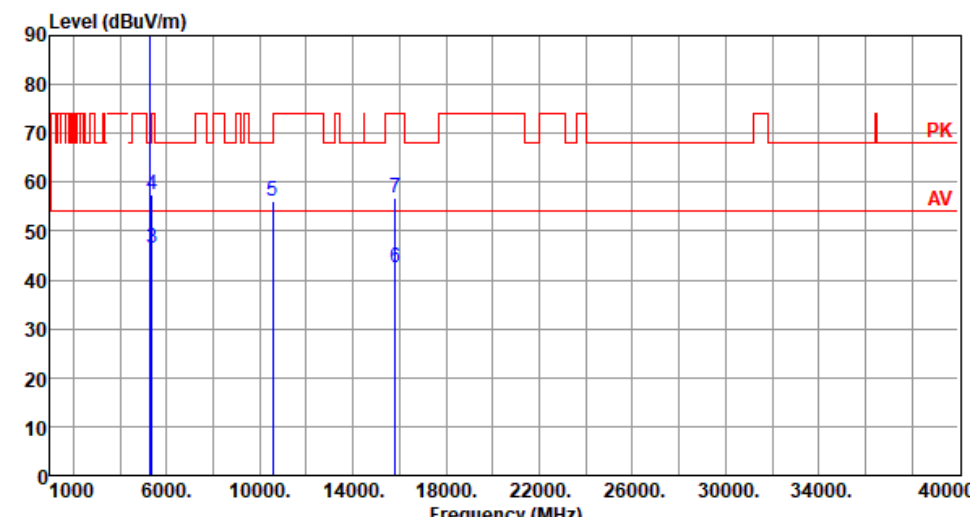
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	Horizontal		



		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m	dB	reading	dB		High	Table
						dBuV			cm	deg
1	*	5270.00	101.07			96.96	4.11	Average	179	20
2	*	5270.00	109.56			105.45	4.11	Peak	179	20
3		5350.00	46.39	54.00	-7.61	42.45	3.94	Average	179	20
4		5350.00	57.43	74.00	-16.57	53.49	3.94	Peak	179	20
5		10540.00	56.06	68.20	-12.14	41.64	14.42	Peak	100	70
6		15810.00	42.63	54.00	-11.37	28.45	14.18	Average	100	20
7		15810.00	56.74	74.00	-17.26	42.56	14.18	Peak	100	20

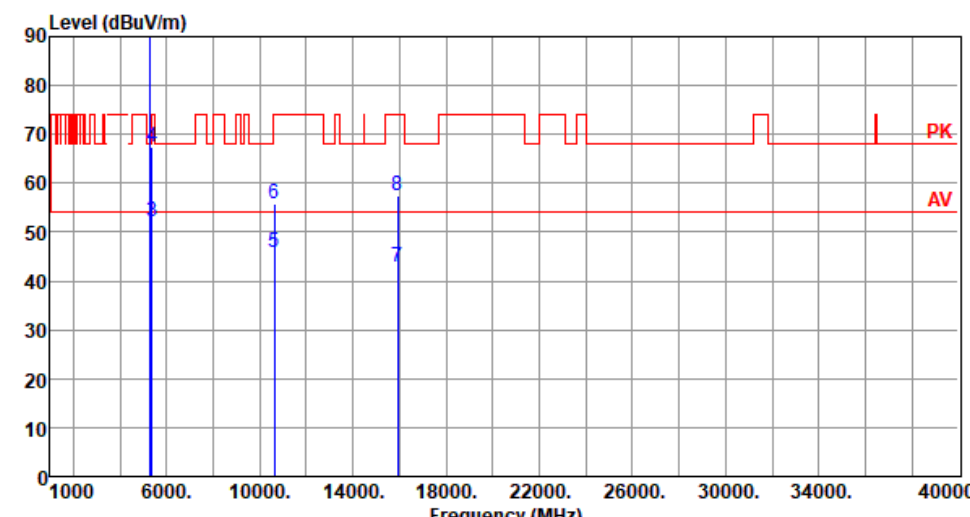
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

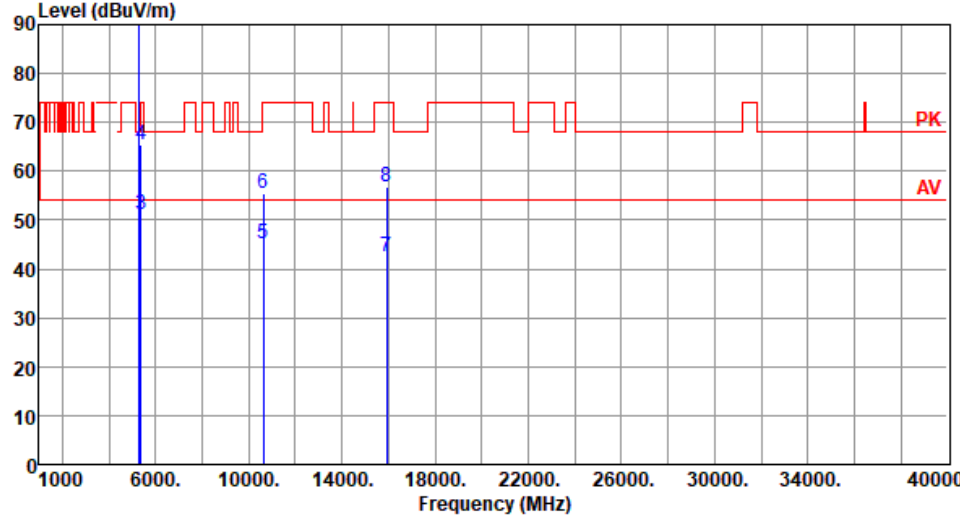
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

Modulation	ax (HE40)	Test Freq. (MHz)	5270
Polarization	Vertical		
Level (dBuV/m)			

Modulation	ax (HE40)	Test Freq. (MHz)	5310																																																																																																														
Polarization	Horizontal																																																																																																																
 <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></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>5310.00</td><td>101.20</td><td></td><td></td><td>97.20</td><td>4.00</td><td>Average</td><td>183</td><td>19</td></tr><tr><td>2 *</td><td>5310.00</td><td>109.51</td><td></td><td></td><td>105.51</td><td>4.00</td><td>Peak</td><td>183</td><td>19</td></tr><tr><td>3</td><td>5350.00</td><td>52.22</td><td>54.00</td><td>-1.78</td><td>48.28</td><td>3.94</td><td>Average</td><td>183</td><td>19</td></tr><tr><td>4</td><td>5350.00</td><td>67.54</td><td>74.00</td><td>-6.46</td><td>63.60</td><td>3.94</td><td>Peak</td><td>183</td><td>19</td></tr><tr><td>5</td><td>10620.00</td><td>45.68</td><td>54.00</td><td>-8.32</td><td>31.34</td><td>14.34</td><td>Average</td><td>100</td><td>63</td></tr><tr><td>6</td><td>10620.00</td><td>55.95</td><td>74.00</td><td>-18.05</td><td>41.61</td><td>14.34</td><td>Peak</td><td>100</td><td>63</td></tr><tr><td>7</td><td>15930.00</td><td>42.69</td><td>54.00</td><td>-11.31</td><td>28.46</td><td>14.23</td><td>Average</td><td>100</td><td>51</td></tr><tr><td>8</td><td>15930.00</td><td>57.44</td><td>74.00</td><td>-16.56</td><td>43.21</td><td>14.23</td><td>Peak</td><td>100</td><td>51</td></tr></tbody></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m		reading			High	Table									cm	deg	1 *	5310.00	101.20			97.20	4.00	Average	183	19	2 *	5310.00	109.51			105.51	4.00	Peak	183	19	3	5350.00	52.22	54.00	-1.78	48.28	3.94	Average	183	19	4	5350.00	67.54	74.00	-6.46	63.60	3.94	Peak	183	19	5	10620.00	45.68	54.00	-8.32	31.34	14.34	Average	100	63	6	10620.00	55.95	74.00	-18.05	41.61	14.34	Peak	100	63	7	15930.00	42.69	54.00	-11.31	28.46	14.23	Average	100	51	8	15930.00	57.44	74.00	-16.56	43.21	14.23	Peak	100	51
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *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																																																																																																																	

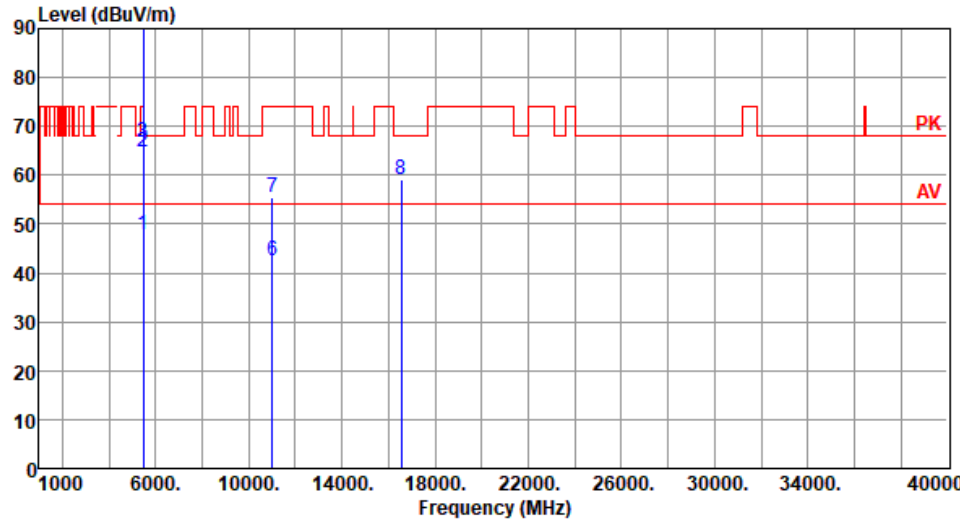
Modulation	ax (HE40)	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1 *	5310.00	99.23			95.23	4.00	Average	182	306
2 *	5310.00	107.46			103.46	4.00	Peak	182	306
3	5350.00	51.09	54.00	-2.91	47.15	3.94	Average	182	306
4	5350.00	65.48	74.00	-8.52	61.54	3.94	Peak	182	306
5	10620.00	45.29	54.00	-8.71	30.95	14.34	Average	100	43
6	10620.00	55.38	74.00	-18.62	41.04	14.34	Peak	100	43
7	15930.00	42.57	54.00	-11.43	28.34	14.23	Average	100	86
8	15930.00	56.92	74.00	-17.08	42.69	14.23	Peak	100	86

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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)	5510
Polarization	Horizontal		



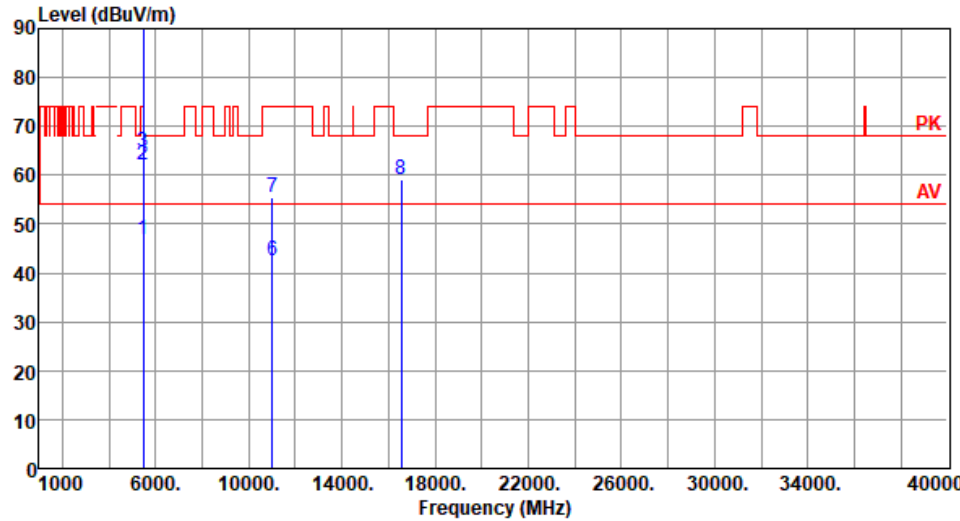
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.79	54.00	-6.21	43.34	4.45	Average	169	20
2	5460.00	64.61	74.00	-9.39	60.16	4.45	Peak	169	20
3	5470.00	66.89	68.20	-1.31	62.39	4.50	Peak	169	20
4 *	5510.00	100.73			96.09	4.64	Average	169	20
5 *	5510.00	109.14			104.50	4.64	Peak	169	20
6	11020.00	42.46	54.00	-11.54	27.65	14.81	Average	100	48
7	11020.00	55.58	74.00	-18.42	40.77	14.81	Peak	100	48
8	16530.00	59.14	68.20	-9.06	42.81	16.33	Peak	100	87

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*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)	5510
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	46.67	54.00	-7.33	42.22	4.45	Average	105	10
2	5460.00	62.05	74.00	-11.95	57.60	4.45	Peak	105	10
3	5470.00	64.71	68.20	-3.49	60.21	4.50	Peak	105	10
4 *	5510.00	98.90			94.26	4.64	Average	105	10
5 *	5510.00	107.13			102.49	4.64	Peak	105	10
6	11020.00	42.41	54.00	-11.59	27.60	14.81	Average	100	47
7	11020.00	55.36	74.00	-18.64	40.55	14.81	Peak	100	47
8	16530.00	59.04	68.20	-9.16	42.71	16.33	Peak	100	22

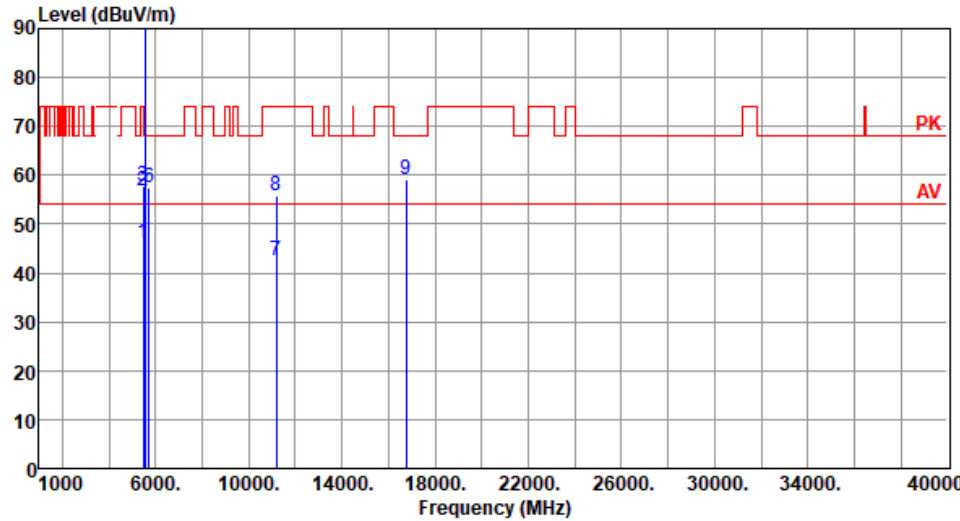
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	46.02	54.00	-7.98	41.57	4.45	Average	167	15
2	5460.00	56.92	74.00	-17.08	52.47	4.45	Peak	167	15
3	5470.00	57.73	68.20	-10.47	53.23	4.50	Peak	167	15
4 *	5590.00	100.68			96.16	4.52	Average	167	15
5 *	5590.00	109.06			104.54	4.52	Peak	167	15
6	5725.00	57.54	68.20	-10.66	52.69	4.85	Peak	167	15
7	11180.00	42.59	54.00	-11.41	28.26	14.33	Average	100	50
8	11180.00	55.64	74.00	-18.36	41.31	14.33	Peak	100	50
9	16770.00	59.17	68.20	-9.03	41.59	17.58	Peak	100	90

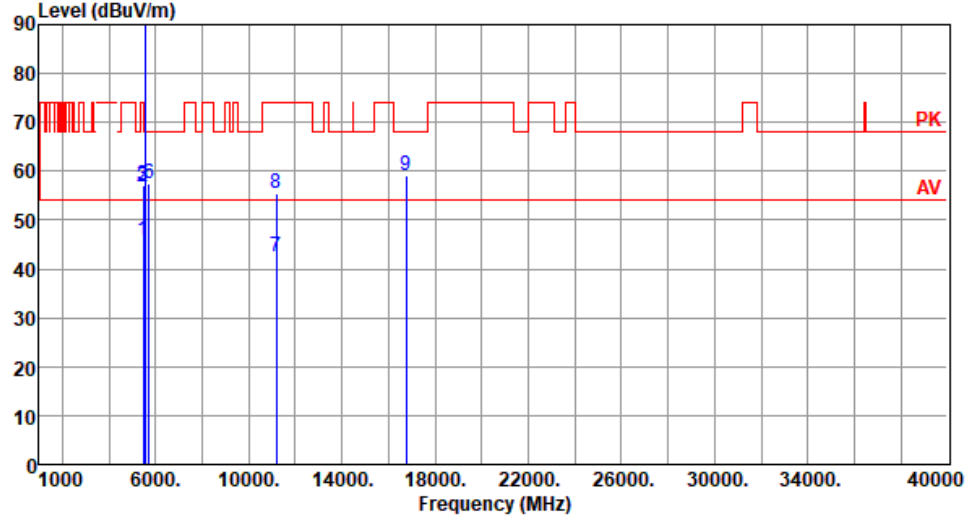
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.98	54.00	-8.02	41.53	4.45	Average	125	206
2	5460.00	56.89	74.00	-17.11	52.44	4.45	Peak	125	206
3	5470.00	57.22	68.20	-10.98	52.72	4.50	Peak	125	206
4 *	5590.00	98.54			94.02	4.52	Average	125	206
5 *	5590.00	106.95			102.43	4.52	Peak	125	206
6	5725.00	57.41	68.20	-10.79	52.56	4.85	Peak	125	206
7	11180.00	42.46	54.00	-11.54	28.13	14.33	Average	100	31
8	11180.00	55.58	74.00	-18.42	41.25	14.33	Peak	100	31
9	16770.00	59.04	68.20	-9.16	41.46	17.58	Peak	100	78

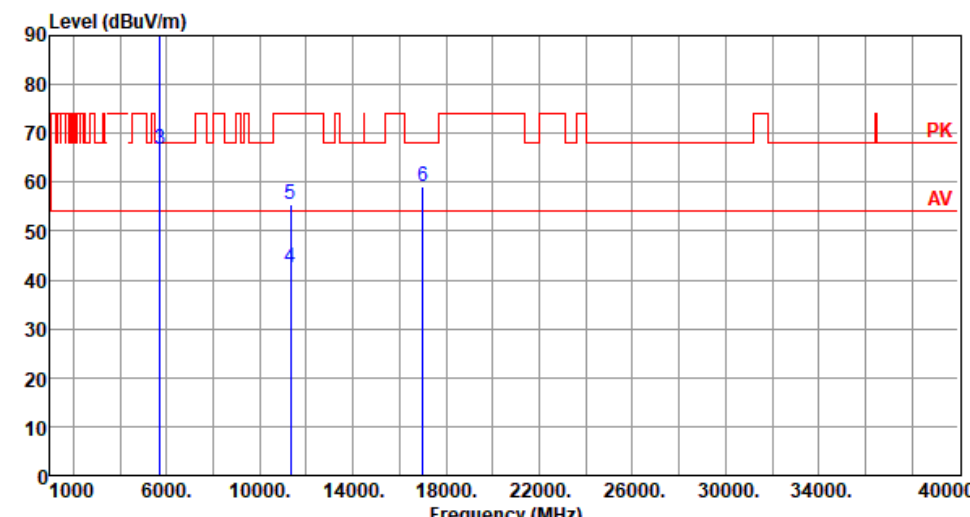
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5670
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	*	5670.00	100.61		96.01	4.60	Average	165	16
2	*	5670.00	108.94		104.34	4.60	Peak	165	16
3		5725.00	66.71	68.20	-1.49	61.86	4.85	Peak	165
4		11340.00	42.46	54.00	-11.54	27.99	14.47	Average	100
5		11340.00	55.51	74.00	-18.49	41.04	14.47	Peak	100
6		17010.00	59.22	68.20	-8.98	41.33	17.89	Peak	100

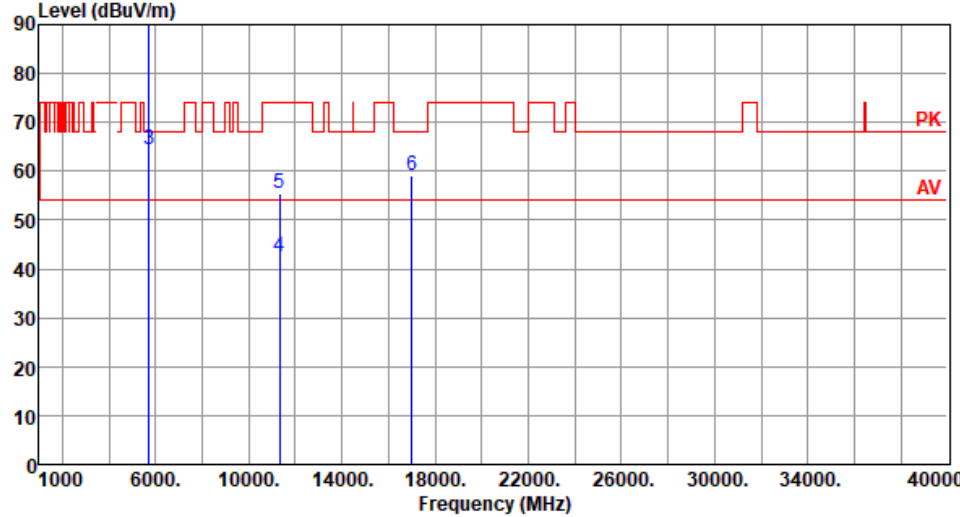
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5670
Polarization	Vertical		



		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		MHz	level	dBuV/m		reading			High	Table
			dBuV/m			dBuV			cm	deg
1	*	5670.00	98.55			93.95	4.60	Average	105	4
2	*	5670.00	106.81			102.21	4.60	Peak	105	4
3		5725.00	64.34	68.20	-3.86	59.49	4.85	Peak	105	4
4		11340.00	42.35	54.00	-11.65	27.88	14.47	Average	100	61
5		11340.00	55.48	74.00	-18.52	41.01	14.47	Peak	100	61
6		17010.00	59.14	68.20	-9.06	41.25	17.89	Peak	100	48

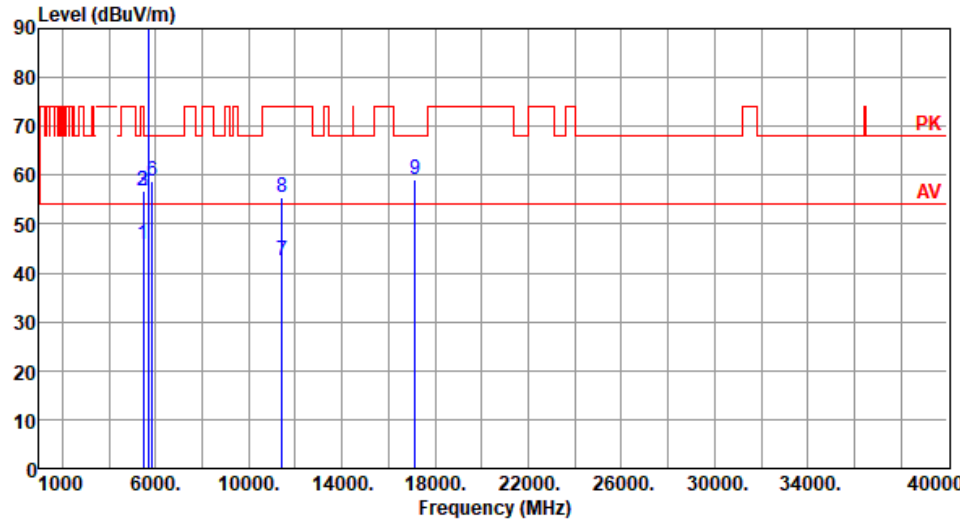
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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)	5710
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5460.00	45.82	54.00	-8.18	41.37	4.45	Average	163	19
2	5460.00	56.71	74.00	-17.29	52.26	4.45	Peak	163	19
3	5470.00	56.88	68.20	-11.32	52.38	4.50	Peak	163	19
4 *	5710.00	100.54			95.79	4.75	Average	163	19
5 *	5710.00	108.82			104.07	4.75	Peak	163	19
6	5850.00	58.84	68.20	-9.36	53.39	5.45	Peak	163	19
7	11420.00	42.35	54.00	-11.65	27.68	14.67	Average	100	58
8	11420.00	55.48	74.00	-18.52	40.81	14.67	Peak	100	58
9	17130.00	59.16	68.20	-9.04	41.49	17.67	Peak	100	53

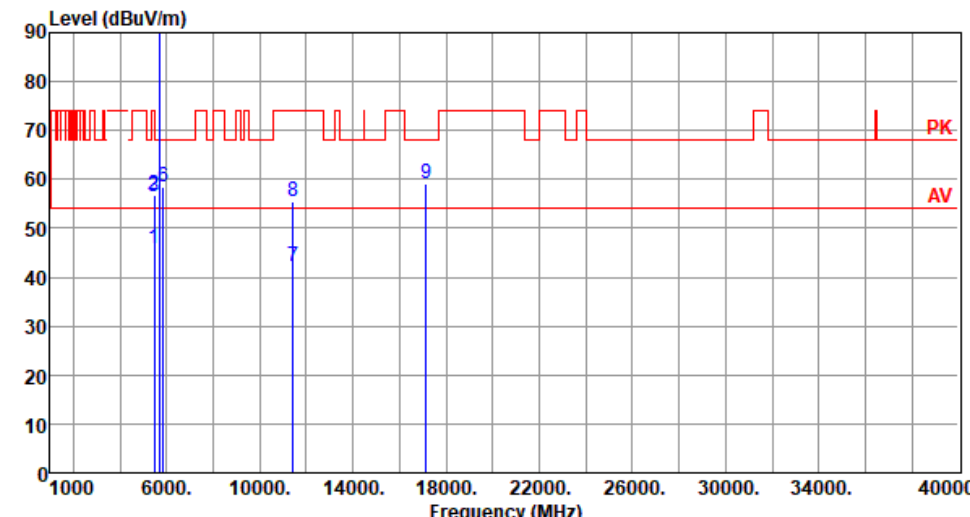
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5710
Polarization	Vertical		

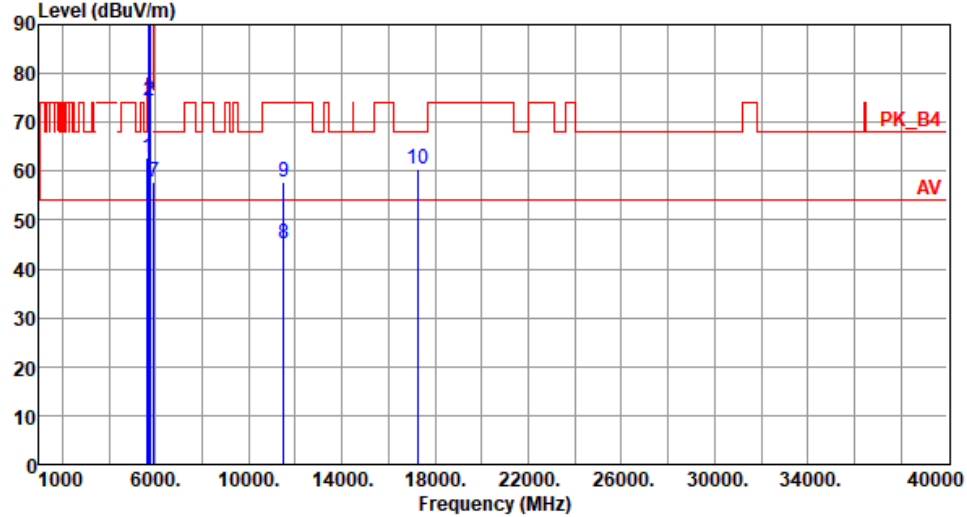


The spectrum plot shows the emission level in dBuV/m across a frequency range from 1000 to 40000 MHz. The y-axis ranges from 0 to 90 dBuV/m. A red line represents the emission level, and a blue line represents the limit. The emission level is generally below the limit, with some peaks exceeding it. The plot is labeled with 'PK' and 'AV'.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.77	54.00	-8.23	41.32	4.45	Average	133	196
2	5460.00	56.68	74.00	-17.32	52.23	4.45	Peak	133	196
3	5470.00	56.62	68.20	-11.58	52.12	4.50	Peak	133	196
4 *	5710.00	98.45			93.70	4.75	Average	133	196
5 *	5710.00	106.91			102.16	4.75	Peak	133	196
6	5850.00	58.52	68.20	-9.68	53.07	5.45	Peak	133	196
7	11420.00	42.26	54.00	-11.74	27.59	14.67	Average	100	53
8	11420.00	55.39	74.00	-18.61	40.72	14.67	Peak	100	53
9	17130.00	59.28	68.20	-8.92	41.61	17.67	Peak	100	41

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*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)	5755
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5650.00	62.78	68.20	-5.42	58.24	4.54	Peak	100	4
2	5700.00	74.39	105.20	-30.81	69.71	4.68	Peak	100	4
3	5720.00	89.75	110.80	-21.05	84.94	4.81	Peak	100	4
4	5725.00	91.98	122.20	-30.22	87.13	4.85	Peak	100	4
5 *	5755.00	106.59			101.57	5.02	Average	100	4
6 *	5755.00	116.22			111.20	5.02	Peak	100	4
7	5925.00	57.89	68.20	-10.31	52.46	5.43	Peak	100	4
8	11510.00	45.06	54.00	-8.94	30.45	14.61	Average	100	128
9	11510.00	57.92	74.00	-16.08	43.31	14.61	Peak	100	128
10	17265.00	60.56	68.20	-7.64	42.69	17.87	Peak	100	95

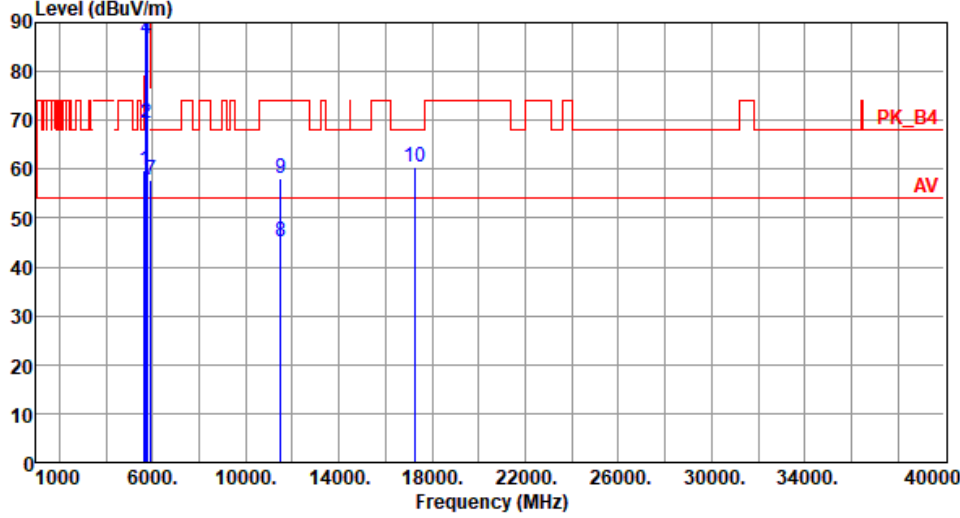
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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

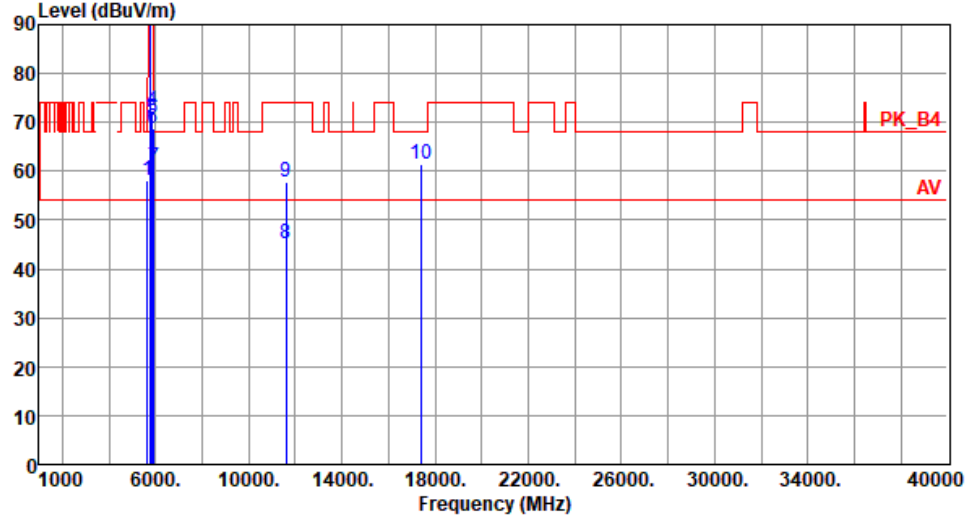
Modulation	ax (HE40)	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.74	68.20	-8.46	55.20	4.54	Peak	100	29
2	5700.00	69.34	105.20	-35.86	64.66	4.68	Peak	100	29
3	5720.00	90.01	110.80	-20.79	85.20	4.81	Peak	100	29
4	5725.00	86.75	122.20	-35.45	81.90	4.85	Peak	100	29
5 *	5755.00	104.18			99.16	5.02	Average	100	29
6 *	5755.00	114.57			109.55	5.02	Peak	100	29
7	5925.00	57.74	68.20	-10.46	52.31	5.43	Peak	100	29
8	11510.00	45.15	54.00	-8.85	30.54	14.61	Average	100	35
9	11510.00	57.96	74.00	-16.04	43.35	14.61	Peak	100	35
10	17265.00	60.48	68.20	-7.72	42.61	17.87	Peak	100	61

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *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)	5795
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5650.00	57.99	68.20	-10.21	53.45	4.54	Peak	100	3
2 *	5795.00	106.17			101.04	5.13	Average	100	3
3 *	5795.00	116.64			111.51	5.13	Peak	100	3
4	5850.00	72.52	122.20	-49.68	67.07	5.45	Peak	100	3
5	5855.00	70.76	110.80	-40.04	65.32	5.44	Peak	100	3
6	5875.00	68.81	105.20	-36.39	63.37	5.44	Peak	100	3
7	5925.00	60.69	68.20	-7.51	55.26	5.43	Peak	100	3
8	11590.00	45.15	54.00	-8.85	30.69	14.46	Average	100	125
9	11590.00	57.72	74.00	-16.28	43.26	14.46	Peak	100	125
10	17385.00	61.41	68.20	-6.79	42.85	18.56	Peak	100	92

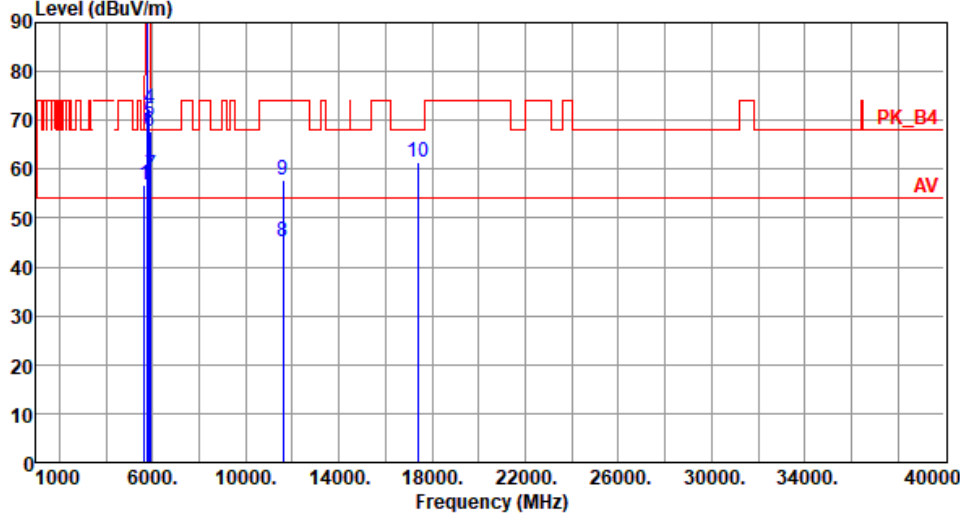
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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)	5795
Polarization	Vertical		

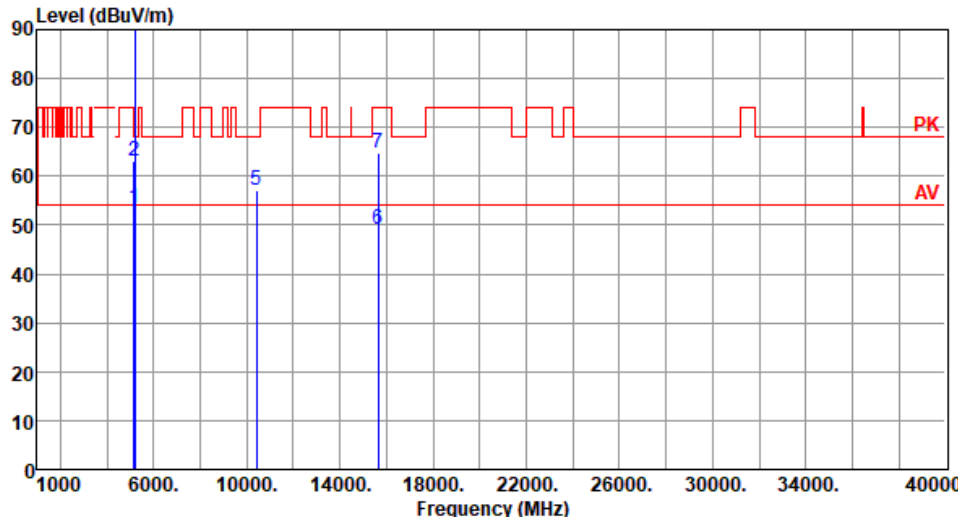


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	56.81	68.20	-11.39	52.27	4.54	Peak	100	30
2	* 5795.00	104.25			99.12	5.13	Average	100	30
3	* 5795.00	114.59			109.46	5.13	Peak	100	30
4	5850.00	72.30	122.20	-49.90	66.85	5.45	Peak	100	30
5	5855.00	69.73	110.80	-41.07	64.29	5.44	Peak	100	30
6	5875.00	67.83	105.20	-37.37	62.39	5.44	Peak	100	30
7	5925.00	58.89	68.20	-9.31	53.46	5.43	Peak	100	30
8	11590.00	45.08	54.00	-8.92	30.62	14.46	Average	100	64
9	11590.00	57.65	74.00	-16.35	43.19	14.46	Peak	100	64
10	17385.00	61.39	68.20	-6.81	42.83	18.56	Peak	100	53

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

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

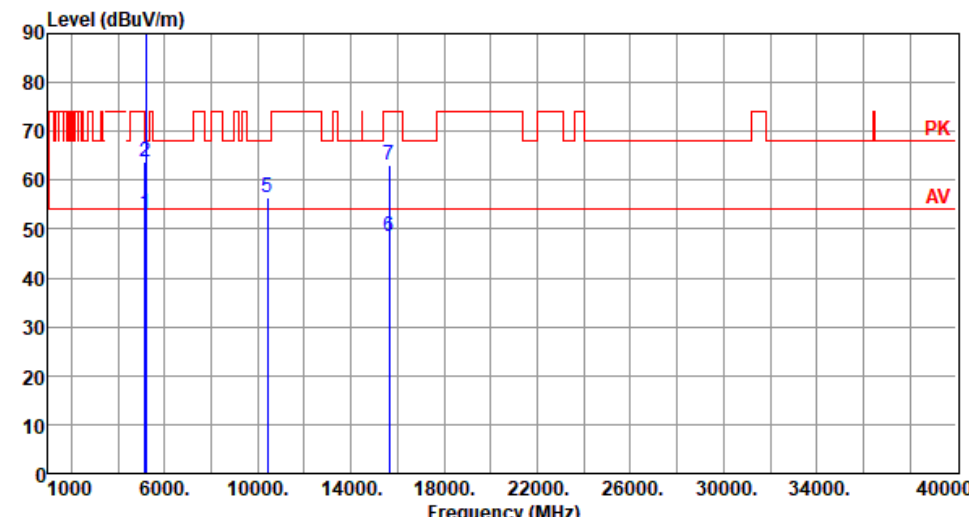
Modulation	ax (HE80)		Test Freq. (MHz)		5210	
Polarization	Horizontal					



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5150.00	53.52	54.00	-0.48	48.88	4.64	Average	105	89
2	5150.00	63.04	74.00	-10.96	58.40	4.64	Peak	105	89
3 *	5210.00	97.33			93.01	4.32	Average	105	89
4 *	5210.00	106.53			102.21	4.32	Peak	105	89
5	10420.00	57.08	68.20	-11.12	42.74	14.34	Peak	100	106
6	15630.00	49.15	54.00	-4.85	34.64	14.51	Average	158	124
7	15630.00	64.89	74.00	-9.11	50.38	14.51	Peak	158	124

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



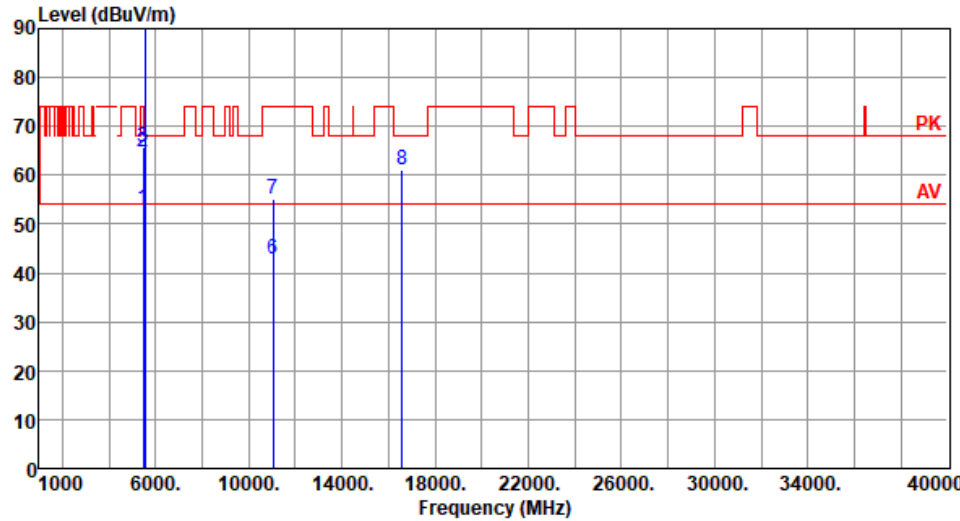
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.30	54.00	-0.70	48.66	4.64	Average	116	200
2	5150.00	63.85	74.00	-10.15	59.21	4.64	Peak	116	200
3 *	5210.00	95.52			91.20	4.32	Average	116	200
4 *	5210.00	104.54			100.22	4.32	Peak	116	200
5	10420.00	56.55	68.20	-11.65	42.21	14.34	Peak	100	55
6	15630.00	48.59	54.00	-5.41	34.08	14.51	Average	200	76
7	15630.00	63.14	74.00	-10.86	48.63	14.51	Peak	200	76

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*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)	5290
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	ax (HE80)	Test Freq. (MHz)	5290
Polarization	Vertical		
Level (dBUV/m)			

Modulation	ax (HE80)	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	53.26	54.00	-0.74	48.81	4.45	Average	158	13
2	5460.00	64.89	74.00	-9.11	60.44	4.45	Peak	158	13
3	5470.00	65.83	68.20	-2.37	61.33	4.50	Peak	158	13
4 *	5530.00	99.16			94.55	4.61	Average	158	13
5 *	5530.00	108.21			103.60	4.61	Peak	158	13
6	11060.00	42.75	54.00	-11.25	28.08	14.67	Average	100	87
7	11060.00	55.04	74.00	-18.96	40.37	14.67	Peak	100	87
8	16590.00	61.15	68.20	-7.05	44.54	16.61	Peak	100	34

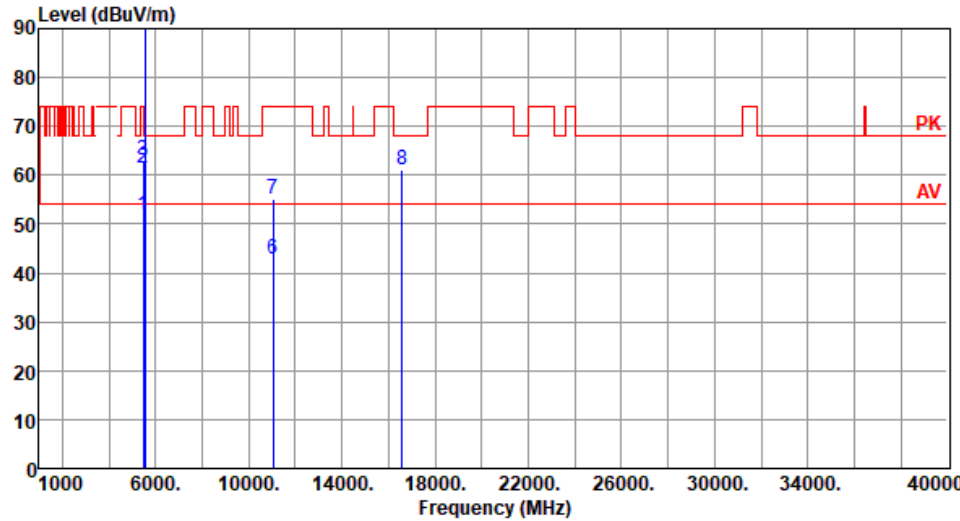
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5530
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	51.74	54.00	-2.26	47.29	4.45	Average	100	8
2	5460.00	61.54	74.00	-12.46	57.09	4.45	Peak	100	8
3	5470.00	63.12	68.20	-5.08	58.62	4.50	Peak	100	8
4 *	5530.00	96.85			92.24	4.61	Average	100	8
5 *	5530.00	106.28			101.67	4.61	Peak	100	8
6	11060.00	42.86	54.00	-11.14	28.19	14.67	Average	100	45
7	11060.00	55.14	74.00	-18.86	40.47	14.67	Peak	100	45
8	16590.00	61.04	68.20	-7.16	44.43	16.61	Peak	100	23

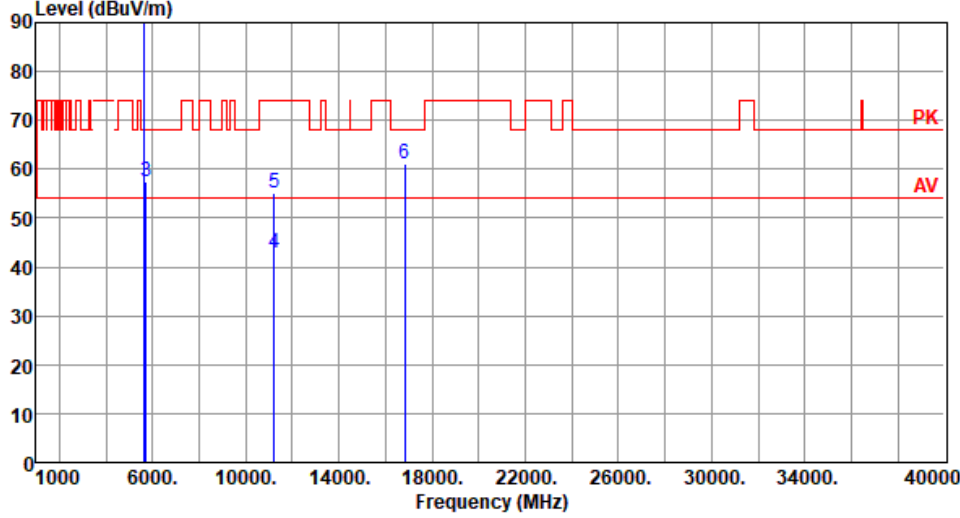
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5610
Polarization	Horizontal		

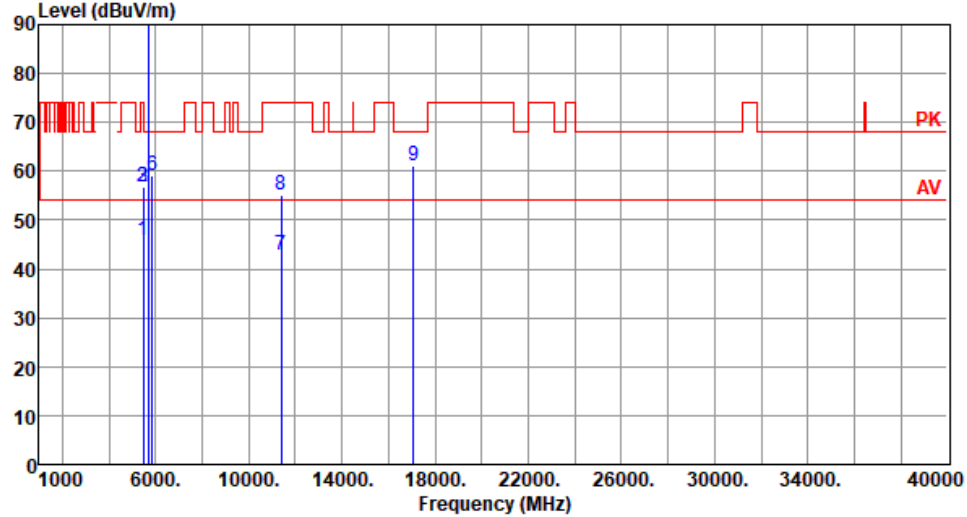


		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	5610.00	99.53			95.01	4.52	Average	176	15
2	*	5610.00	108.76			104.24	4.52	Peak	176	15
3		5725.00	57.34	68.20	-10.86	52.49	4.85	Peak	176	15
4		11220.00	42.74	54.00	-11.26	28.45	14.29	Average	100	33
5		11220.00	55.12	74.00	-18.88	40.83	14.29	Peak	100	33
6		16830.00	61.08	68.20	-7.12	43.43	17.65	Peak	100	59

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *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)		5610	
Polarization	Vertical					
Level (dBUV/m) </						

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



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	5460.00	45.85	54.00	-8.15	41.40	4.45	Average	129	196
2	5460.00	56.82	74.00	-17.18	52.37	4.45	Peak	129	196
3	5470.00	56.94	68.20	-11.26	52.44	4.50	Peak	129	196
4 *	5690.00	99.38			94.73	4.65	Average	129	196
5 *	5690.00	108.65			104.00	4.65	Peak	129	196
6	5850.00	58.95	68.20	-9.25	53.50	5.45	Peak	129	196
7	11380.00	42.69	54.00	-11.31	28.08	14.61	Average	100	51
8	11380.00	55.13	74.00	-18.87	40.52	14.61	Peak	100	51
9	17070.00	61.02	68.20	-7.18	43.27	17.75	Peak	100	88

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

*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		

	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	5460.00	45.79	54.00	-8.21	41.34	4.45	Average	134	212
2	5460.00	56.78	74.00	-17.22	52.33	4.45	Peak	134	212
3	5470.00	56.79	68.20	-11.41	52.29	4.50	Peak	134	212
4 *	5690.00	97.25			92.60	4.65	Average	134	212
5 *	5690.00	106.58			101.93	4.65	Peak	134	212
6	5850.00	58.91	68.20	-9.29	53.46	5.45	Peak	134	212
7	11380.00	42.58	54.00	-11.42	27.97	14.61	Average	100	114
8	11380.00	55.02	74.00	-18.98	40.41	14.61	Peak	100	114
9	17070.00	61.19	68.20	-7.01	43.44	17.75	Peak	100	22

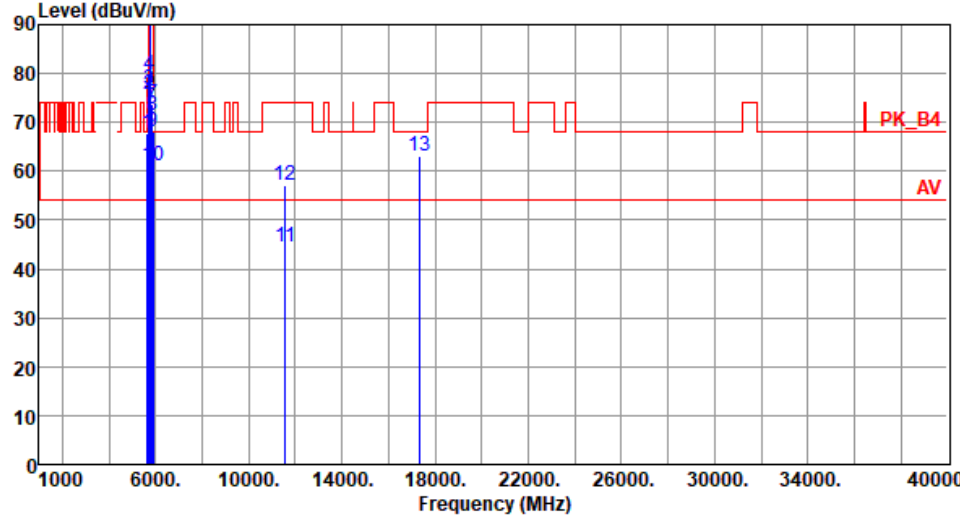
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*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)	5775
Polarization	Horizontal		



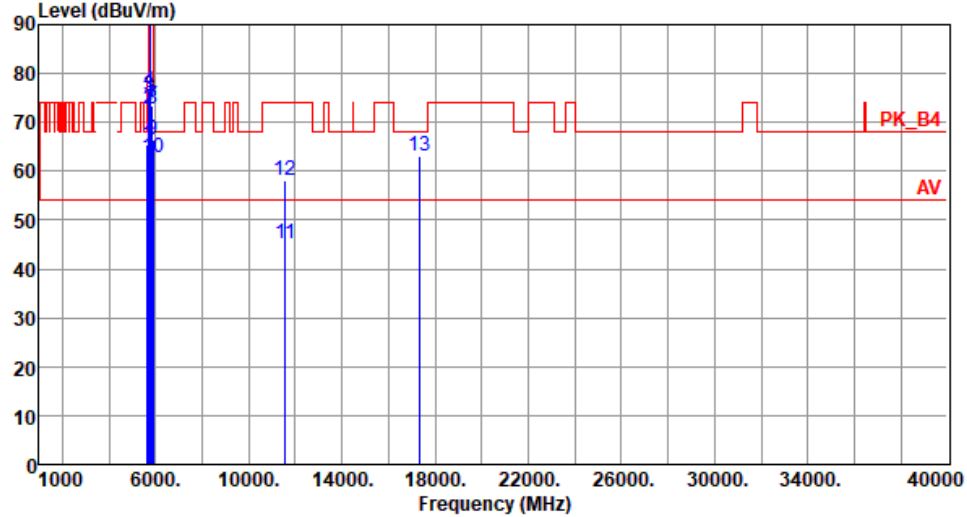
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.79	68.20	-0.41	63.25	4.54	Peak	112	92
2	5700.00	75.64	105.20	-29.56	70.96	4.68	Peak	112	92
3	5720.00	76.64	110.80	-34.16	71.83	4.81	Peak	112	92
4	5725.00	79.69	122.20	-42.51	74.84	4.85	Peak	112	92
5 *	5775.00	103.04			97.96	5.08	Average	112	92
6 *	5775.00	112.81			107.73	5.08	Peak	112	92
7	5850.00	73.71	122.20	-48.49	68.26	5.45	Peak	112	92
8	5855.00	71.33	110.80	-39.47	65.89	5.44	Peak	112	92
9	5875.00	68.07	105.20	-37.13	62.63	5.44	Peak	112	92
10	5925.00	61.23	68.20	-6.97	55.80	5.43	Peak	112	92
11	11550.00	44.58	54.00	-9.42	30.05	14.53	Average	100	124
12	11550.00	57.13	74.00	-16.87	42.60	14.53	Peak	100	124
13	17325.00	63.19	68.20	-5.01	45.02	18.17	Peak	100	46

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*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)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	65.39	68.20	-2.81	60.85	4.54	Peak	208	63
2	5700.00	72.69	105.20	-32.51	68.01	4.68	Peak	208	63
3	5720.00	75.38	110.80	-35.42	70.57	4.81	Peak	208	63
4	5725.00	76.39	122.20	-45.81	71.54	4.85	Peak	208	63
5 *	5775.00	102.61			97.53	5.08	Average	208	63
6 *	5775.00	111.93			106.85	5.08	Peak	208	63
7	5850.00	73.44	122.20	-48.76	67.99	5.45	Peak	208	63
8	5855.00	72.65	110.80	-38.15	67.21	5.44	Peak	208	63
9	5875.00	66.58	105.20	-38.62	61.14	5.44	Peak	208	63
10	5925.00	62.79	68.20	-5.41	57.36	5.43	Peak	208	63
11	11550.00	45.15	54.00	-8.85	30.62	14.53	Average	116	133
12	11550.00	58.06	74.00	-15.94	43.53	14.53	Peak	116	133
13	17325.00	62.98	68.20	-5.22	44.81	18.17	Peak	125	194

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

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax (HE160)

Modulation	ax (HE160)	Test Freq. (MHz)	5250
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	ax (HE160)	Test Freq. (MHz)	5250
Polarization	Vertical		
Level (dBuV/m) <			

Modulation	ax (HE160)	Test Freq. (MHz)	5570
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	ax (HE160)	Test Freq. (MHz)	5570
Polarization	Vertical		
Level (dBuV/m)			

3.6 Frequency Stability

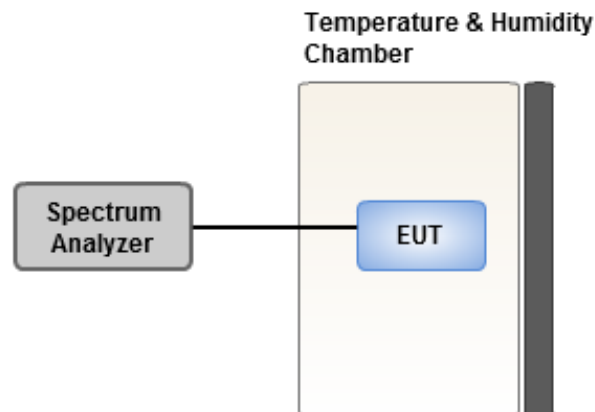
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	2.64	2.50	2.78	2.57
T20°C Vmin	2.20	2.06	2.35	2.62
T50°C Vnom	4.10	4.40	3.82	4.10
T40°C Vnom	4.10	3.99	4.14	4.39
T30°C Vnom	3.10	3.33	3.09	2.93
T20°C Vnom	2.76	2.38	3.59	2.50
T10°C Vnom	2.81	2.83	3.48	2.76
T0°C Vnom	4.03	4.19	3.62	4.67
T-10°C Vnom	2.42	2.23	2.25	2.35
T-20°C Vnom	1.92	2.44	2.16	1.94
T-30°C Vnom	0.91	0.90	0.94	1.12
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 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	3.26	2.67	2.78	2.89
T20°C Vmin	2.26	2.56	2.67	2.20
T50°C Vnom	4.08	3.75	4.59	4.43
T40°C Vnom	3.85	4.09	3.57	4.29
T30°C Vnom	3.01	3.02	3.21	3.53
T20°C Vnom	3.00	2.99	2.85	3.02
T10°C Vnom	3.03	2.88	2.94	2.80
T0°C Vnom	3.82	3.83	4.06	3.35
T-10°C Vnom	2.46	3.10	2.87	2.40
T-20°C Vnom	1.98	2.27	2.55	2.16
T-30°C Vnom	0.99	1.61	0.96	1.58
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 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 Corp (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

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Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

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

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Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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