

**TEST REPORT**  
On behalf of

Mettler Toledo (Changzhou) Measurement Technology Co., Ltd

Product Name: IND400

Model No.: IND400

FCC ID: 2ALAI23MT104

Prepared For: Mettler Toledo (Changzhou) Measurement Technology Co., Ltd  
No.111 Taihu West Road Changzhou City,  
Jiangsu Province, China.

Prepared By: Audix Technology (Shanghai) Co., Ltd.  
3F and 4F, 34Bldg, 680 Guiping Rd.,  
Caohejing Hi-Tech Park,  
Shanghai 200233, China

Tel: +86-21-64955500



File No. : C1D2206038  
Report No. : ACI-F23237  
Date of Test : 2023.11.05-12.10  
Date of Report : 2024.01.02

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

## TABLE OF CONTENTS

	Page
<b>1 SUMMARY OF STANDARDS AND RESULTS .....</b>	<b>5</b>
1.1 Description of Standards and Results.....	5
<b>2 GENERAL INFORMATION.....</b>	<b>6</b>
2.1 Description of Equipment Under Test.....	6
2.2 EUT Specifications Assessed in Current Report.....	9
2.3 Test Information .....	11
2.4 Duty Cycle Check .....	12
2.5 Sample Description .....	13
2.6 Supported Equipment .....	13
2.7 Description of Test Facility .....	13
<b>3 CONDUCTED EMISSION TEST .....</b>	<b>14</b>
3.1 Test Equipment.....	14
3.2 Block Diagram of Test Setup .....	14
3.3 Conducted Emission Limits .....	15
3.4 Test Configuration.....	15
3.5 Operating Condition of EUT .....	15
3.6 Test Procedures .....	15
3.7 Test Results .....	16
<b>4 RADIATED EMISSION TEST.....</b>	<b>19</b>
4.1 Test Equipment.....	19
4.2 Block Diagram of Test Setup .....	20
4.3 Radiated Emission Limit .....	21
4.4 Test Configuration.....	21
4.5 Operating Condition of EUT .....	22
4.6 Test Procedures .....	22
4.7 Test Results .....	23
<b>5 BAND EDGE MEASUREMENT.....</b>	<b>54</b>
5.1 Test Equipment.....	54
5.2 Block Diagram of Test Setup .....	54
5.3 Specification Limit .....	54
5.4 Test Procedures .....	55
5.5 Test Results .....	56
<b>6 6 DB&amp;99% BANDWIDTH MEASUREMENT .....</b>	<b>118</b>
6.1 Test Equipment.....	118
6.2 Block Diagram of Test Setup .....	118
6.3 Specification Limits (§15.407(e)) .....	118
6.4 Operating Condition of EUT .....	118
6.5 Test Procedure .....	118
6.6 Test Results .....	120
<b>7 26 DB BANDWIDTH MEASUREMENT .....</b>	<b>137</b>
7.1 Test Equipment.....	137
7.2 Block Diagram of Test Setup .....	137
7.3 Operating Condition of EUT .....	137
7.4 Test Procedure .....	137

7.5 Test Results ..... 138

**8 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT ..... 152**

8.1 Test Equipment..... 152

8.2 Block Diagram of Test Setup ..... 152

8.3 Specification Limits ((§15.407(a)) ..... 152

8.4 Operating Condition of EUT ..... 152

8.5 Test Procedure ..... 152

8.6 Test Results ..... 154

**9 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT ..... 168**

9.1 Test Equipment..... 168

9.2 Block Diagram of Test Setup ..... 168

9.3 Specification Limits (§15.407(a)) ..... 168

9.4 Operating Condition of EUT ..... 168

9.5 Test Procedure ..... 168

9.6 Test Results ..... 170

**10 FREQUENCY STABILITY MEASUREMENT ..... 184**

10.1 Test Equipment..... 184

10.2 Block Diagram of Test Setup ..... 184

10.3 Specification Limits (§15.407(g)) ..... 184

10.4 Operating Condition of EUT ..... 184

10.5 Test Procedure ..... 184

10.6 Test Results ..... 185

**11 ANTENNA REQUIREMENT..... 190**

11.1 Specification Limits (§15.203)..... 190

11.2 Result..... 190

**12 DEVIATION TO TEST SPECIFICATIONS ..... 191**

**13 MEASUREMENT UNCERTAINTY LIST ..... 192**

# TEST REPORT

Applicant : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd  
 EUT Description : IND400  
 (A) Model No. : Refer to Sec.2.1  
 (B) Power Supply : 120V AC 60Hz  
 (C) Test Voltage : 120V/60Hz

### Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C  
 AND PART 15 SUBPART E  
 AND ANSI C63.10-2013*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits.

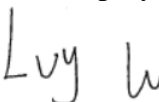
The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.


**The test results for EUT's WIFI (2.4G)/DFS function are contained in No.ACI-F23236, ACI-F23238 report.**

Date of Test : 2023.11.05-12.10 Date of Report : 2024.01.02

Producer :   
 JAREY LU / Deputy Assistant Manager

Review :   
 LVY LV / Deputy Assistant Manager

 For and on behalf of  
 Audix Technology (Shanghai) Co., Ltd.

Signatory :   
 Authorized Signature(s) KAMP CHEN / Manager

# 1 SUMMARY OF STANDARDS AND RESULTS

## 1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
<b>EMISSION</b>			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.207 15.407(b)(6)
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(6)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.209(a) 15.205(a)(c) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(7)
6 dB&99% Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(e)
26 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407
Maximum Conducted Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Maximum Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Frequency Stability Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(g)
Transmit Power Control Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	N/A	15.407(h)(1)
N/A is an abbreviation for Not Applicable.			



- Radio Tech : IEEE 802.11 a/b/g/n.
- Channel Freq. : IEEE 802.11a:  
 5180MHz—5240MHz; 5260MHz—5320MHz  
 5500MHz—5700MHz; 5745MHz—5825MHz  
 IEEE 802.11b: 2412MHz—2462MHz  
 IEEE 802.11g: 2412MHz—2462MHz  
 IEEE802.11nHT20:  
 2412MHz—2462MHz;  
 5180MHz—5240MHz; 5260MHz—5320MHz  
 5500MHz—5700MHz; 5745MHz—5825MHz  
 IEEE802.11nHT40:  
 5190MHz—5230MHz; 5270MHz—5310MHz  
 5510MHz—5670MHz; 5755MHz—5795MHz
- Modulation : 802.11b: DSSS (CCK, DQPSK, DBPSK);  
 802.11a/g/n: OFDM (64QAM, 16QAM, QPSK, BPSK).
- TPC Info. : TPC Function:  
 ☐ With TPC  
 ☑ Without TPC
- Antenna Info. : Transmit Type: 1T1X;  
 RF module shipped with two ANT ports, and the use details in EUT list as below:

ANT Port:	ANT1	ANT2
Connector:	IPEX	IPEX
Condition:	In use	No use

Note : The EUT shipped with one of Antennas provided as below:

No.	Model	Antenna Type	Range (MHz)	Peak Gain(dBi)
1.	AC-Q24-50ZDB	Dipole	2400-2483.5	2.7
			5150-5250	-1.3
			5250-5350	-1.1
			5500-5700	1.3
2.	AC-Q58-50ZDB	Dipole	5700-5825	0.8
			2400-2483.5	1.3
			5150-5250	4.8
			5250-5350	5.0
			5500-5700	5.4
			5700-5825	5.1

As the Gain showed as above, we select Antenna #1 for the test of Band 2400-2483.5MHz, Antenna #2 for the test of Band UNII-1&2-A&2-C&3.

- Applicant : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd  
 No.111 Taihu West Road Changzhou City,  
 Jiangsu Province, China.
- Manufacturer : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd  
 No.111 Taihu West Road Changzhou City,  
 Jiangsu Province, China.

- Factory#1 : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd  
No.111 Taihu West Road Changzhou City,  
Jiangsu Province, China.
- Factory#2 : Mettler-Toledo (Albstadt) GmbH  
Unter dem Malesfelsen 34 D – 72458 Albstadt  
Germany
- Factory#3 : Mettler-Toledo, LLC  
1150 Dearborn Drive Worthington, OH 43085-4766  
United States of America



## 2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
802.11a	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 54
802.11n-HT 20	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 72.2
802.11n-HT 40	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 150

Channel List for 11a/11n-HT20			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	149	5745
104	5520	153	5765
108	5540	157	5785
112	5560	161	5805
116	5580	165	5825
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

Channel List for 11n-HT40			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
38	5190	54	5270
46	5230	62	5310
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
102	5510	151	5755
110	5550	159	5795
118	5590		
126	5630		
134	5670		

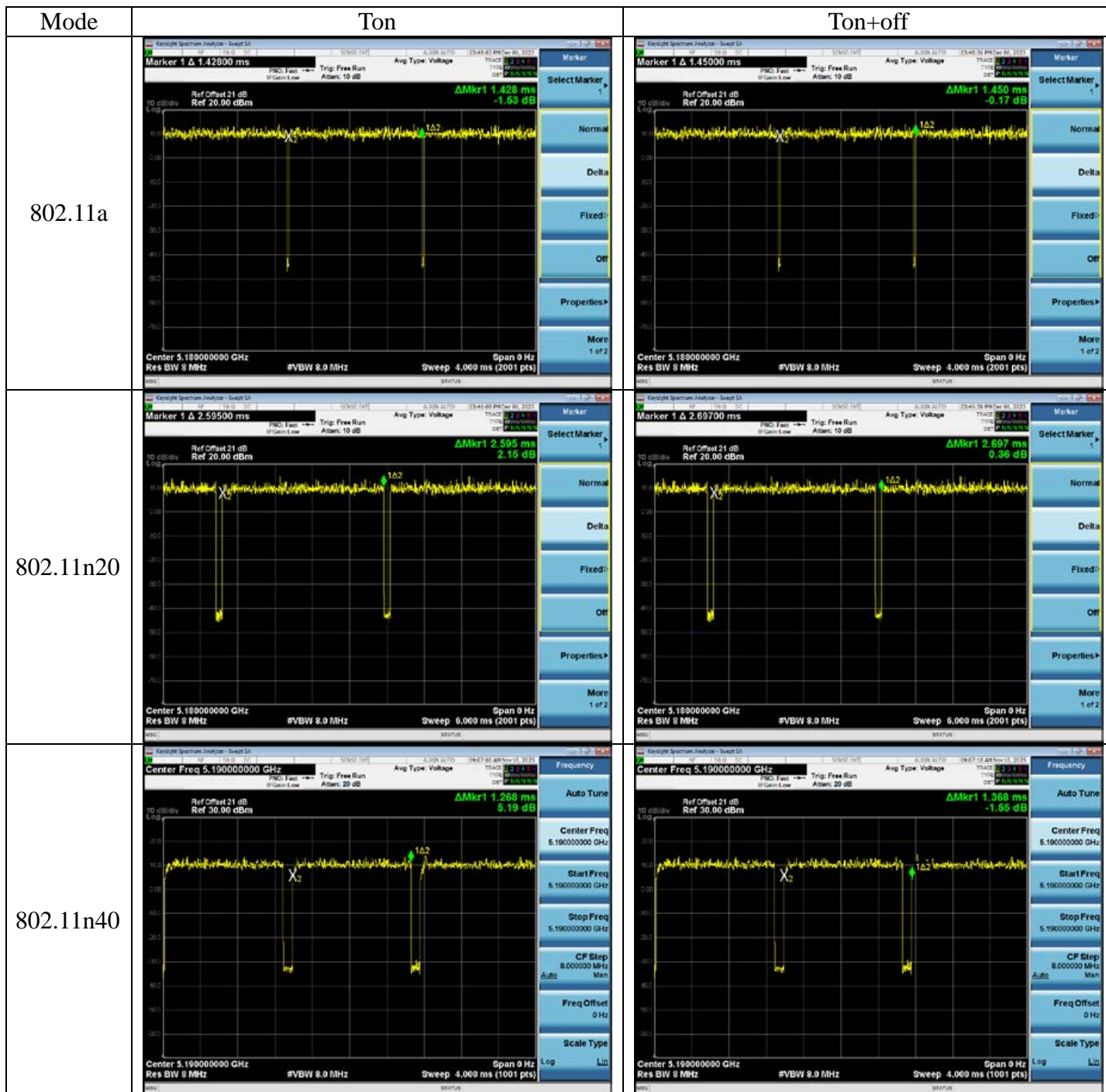
### 2.3 Test Information

The test software “Teraterm.exe” was used to control EUT work in TX mode, Power Setting and select test channel.

Modulation	data rate (Mbps)	txpwr1 Setting	Test Channel		Frequency (MHz)
802.11a	6	10	Low:	36	5180
		10	Middle:	40	5200
		10	High:	48	5240
		10	Low:	52	5260
		10	Middle:	60	5300
		10	High:	64	5320
		10	Low:	100	5500
		10	Middle:	120	5600
		10	High:	140	5700
		10	Low:	149	5745
		10	Middle:	157	5785
		10	High:	165	5825
802.11n-HT 20	MSC0	10	Low:	36	5180
		10	Middle:	40	5200
		10	High:	48	5240
		10	Low:	52	5260
		10	Middle:	60	5300
		10	High:	64	5320
		10	Low:	100	5500
		10	Middle:	120	5600
		10	High:	140	5700
		10	Low:	149	5745
		10	Middle:	157	5785
		10	High:	165	5825
802.11n-HT 40	MSC0	10	Low:	38	5190
		10	High:	46	5230
		10	Low:	54	5270
		10	High:	62	5310
		10	Low:	102	5510
		10	Middle:	118	5590
		10	High:	134	5670
		10	Low:	151	5755
		10	High:	159	5795

## 2.4 Duty Cycle Check

Mode	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	Duty Cycle Correct Factor
802.11a	1.428	1.45	98.48	0.07
802.11n20	2.595	2.697	96.22	0.17
802.11n40	1.268	1.368	92.69	0.33



## 2.5 Sample Description

Test Item	Model Number	Sample Number	Date of received
Conducted Emission	IND400	E20231121274a-01/01	2023.10.08
Radiated Emission	IND400	E20231121274a-01/01	2023.10.08
Conducted RF Test	IND400	E20231121274a-01/01	2023.10.08

## 2.6 Supported Equipment

Brand : Acer  
Product Name: : Notebook PC  
Model Name : TravelMate P238 series  
Model Number : N15W8

Product Name : Test Fixture  
Product Function : USB to TTL

## 2.7 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F and 4F, 34Bldg, 680 Guiping Rd.,  
Caohejing Hi-Tech Park,  
Shanghai 200233, China.

Accredited by NVLAP, Lab Code : 200371-0

FCC Designation Number : CN5027

Test Firm Registration Number : 954668

### 3 CONDUCTED EMISSION TEST

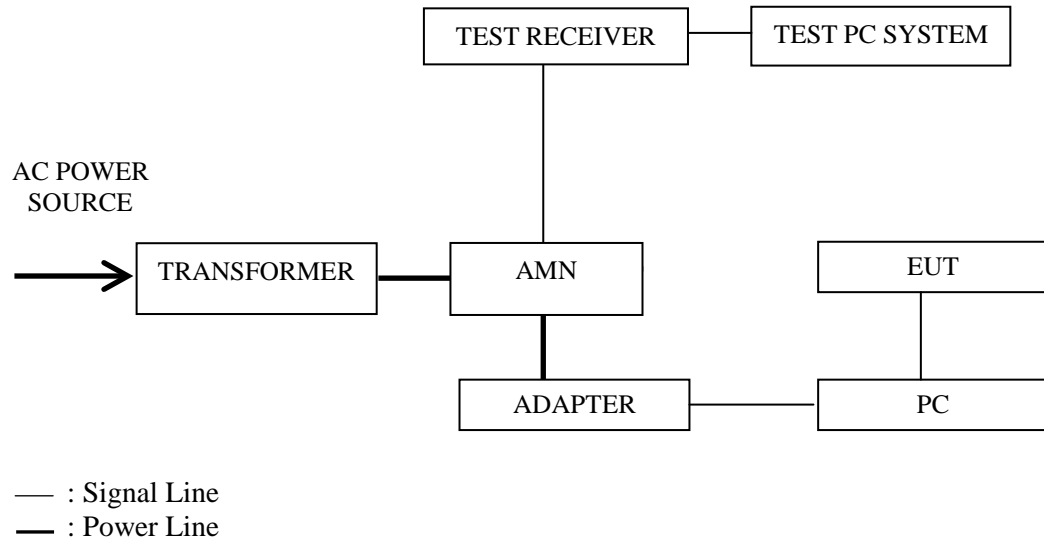
#### 3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101302	2023.02.22	1 Year
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	2023.02.22	1 Year
3.	Fixed Attenuator	SHYL	TTS-1	001	2023.02.22	1 Year
4.	50Ω Coaxial Switch	ANRITSU	MP59B	6200655086	2023.02.22	1 Year
5.	Coaxial Cable	HANWEI	RG223/U	KJ09052	2023.02.22	1 Year
6.	Software	Audix	e3	v9.210616	--	--

#### 3.2 Block Diagram of Test Setup

##### 3.2.1 Conducted Disturbance Test Setup



### 3.3 Conducted Emission Limits

§15.207:

Frequency Range (MHz)	Limits dB(µV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE 1 – The lower limit shall apply at the transition frequencies.  
NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz

§15.407(6):

Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

### 3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

### 3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

### 3.6 Test Procedures

The EUT was placed upon a non-metallic table, which is 0.8 m above the horizontal conducting ground plane and 0.4 m from a vertical reference plane. The EUT was connected to the power mains through an Artificial Mains Network (AMN) to provide a 50 Ω coupling impedance for the measuring equipment. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission according to FCC Part 15 Subpart C and ANSI C63.10: 2020 requirements during conducted disturbance test.

The I.F. bandwidth of Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

Test with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. (According to KDB 174176 D01 Line Conducted FAQ)

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

### 3.7 Test Results

< **PASS** >

The frequency and amplitude of the highest conducted emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Worst case emission:

No.	Operation	Modulation	Channel	Frequency (MHz)	Data Page
1.	Transmitting	802.11a	36	5180	P17-18

NOTE 1 – Emission Level = Read Level + AMN Factor + Aux Factor + Cable Loss  
Margin = Limits - Emission Level

NOTE 2 – “QP” means “Quasi-Peak” values

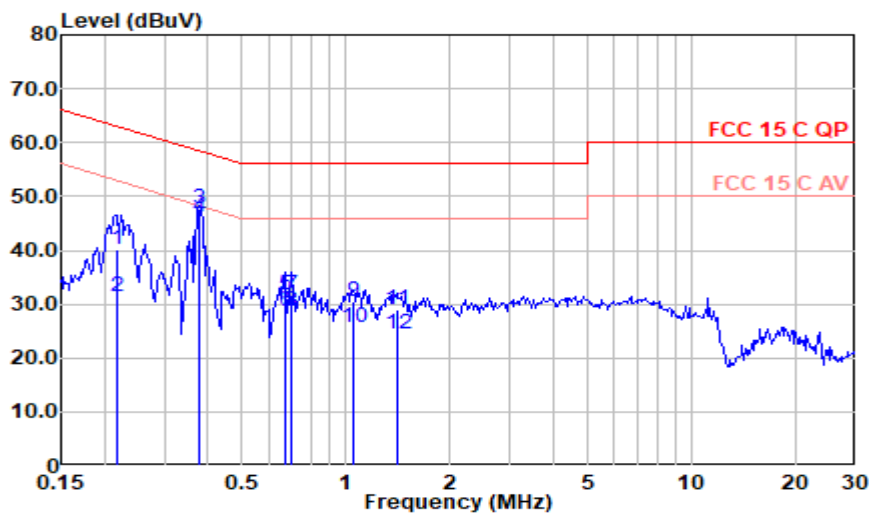
NOTE 3 – The emission levels which not reported are too low against the official limit.



### Worst case emission

Test Date:	2023.12.10	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------	-------------	------------	----------	-------

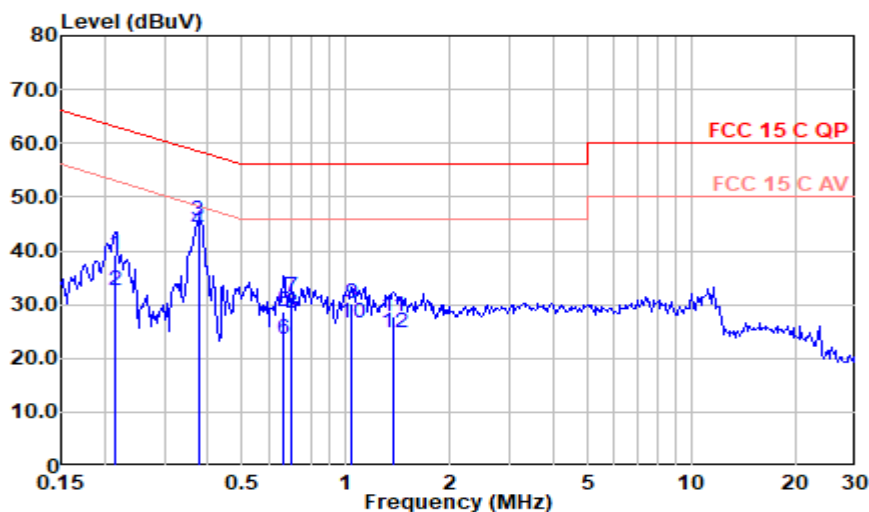
Mode: 802.11a CH5180MHz



#### Polarization at Line

Frequency (MHz)	Meter Reading dB (mV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (mV)	Limits dB (mV)	Margin (dB)	Remark
0.217	30.32	0.10	9.49	0.10	40.01	62.95	22.93	QP
0.217	21.59	0.10	9.49	0.10	31.28	52.95	21.67	Average
0.378	38.01	0.10	9.49	0.10	47.70	58.32	10.62	QP
0.378	36.48	0.10	9.49	0.10	46.17	48.32	2.15	Average
0.666	21.79	0.20	9.49	0.10	31.58	56.00	24.42	QP
0.666	18.79	0.20	9.49	0.10	28.58	46.00	17.42	Average
0.700	21.85	0.20	9.49	0.10	31.64	56.00	24.36	QP
0.700	18.91	0.20	9.49	0.10	28.70	46.00	17.30	Average
1.053	20.58	0.20	9.49	0.10	30.37	56.00	25.63	QP
1.053	16.01	0.20	9.49	0.10	25.80	46.00	20.20	Average
1.404	19.22	0.20	9.49	0.10	29.01	56.00	26.99	QP
1.404	14.55	0.20	9.49	0.10	24.34	46.00	21.66	Average

**Mode: 802.11a CH5180MHz**



Polarization at Neutral

Frequency (MHz)	Meter Reading dB (mV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (mV)	Limits dB (mV)	Margin (dB)	Remark
0.215	29.70	0.10	9.49	0.10	39.39	63.03	23.64	QP
0.215	22.81	0.10	9.49	0.10	32.50	53.03	20.53	Average
0.374	35.77	0.10	9.49	0.10	45.46	58.40	12.95	QP
0.374	34.18	0.10	9.49	0.10	43.87	48.40	4.54	Average
0.660	18.94	0.10	9.49	0.10	28.63	56.00	27.37	QP
0.660	13.74	0.10	9.49	0.10	23.43	46.00	22.57	Average
0.700	21.67	0.10	9.49	0.10	31.36	56.00	24.64	QP
0.700	18.73	0.10	9.49	0.10	28.42	46.00	17.58	Average
1.042	20.50	0.20	9.49	0.10	30.29	56.00	25.71	QP
1.042	16.85	0.20	9.49	0.10	26.64	46.00	19.36	Average
1.377	17.91	0.20	9.49	0.10	27.70	56.00	28.30	QP
1.377	15.01	0.20	9.49	0.10	24.80	46.00	21.20	Average

## 4 RADIATED EMISSION TEST

### 4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

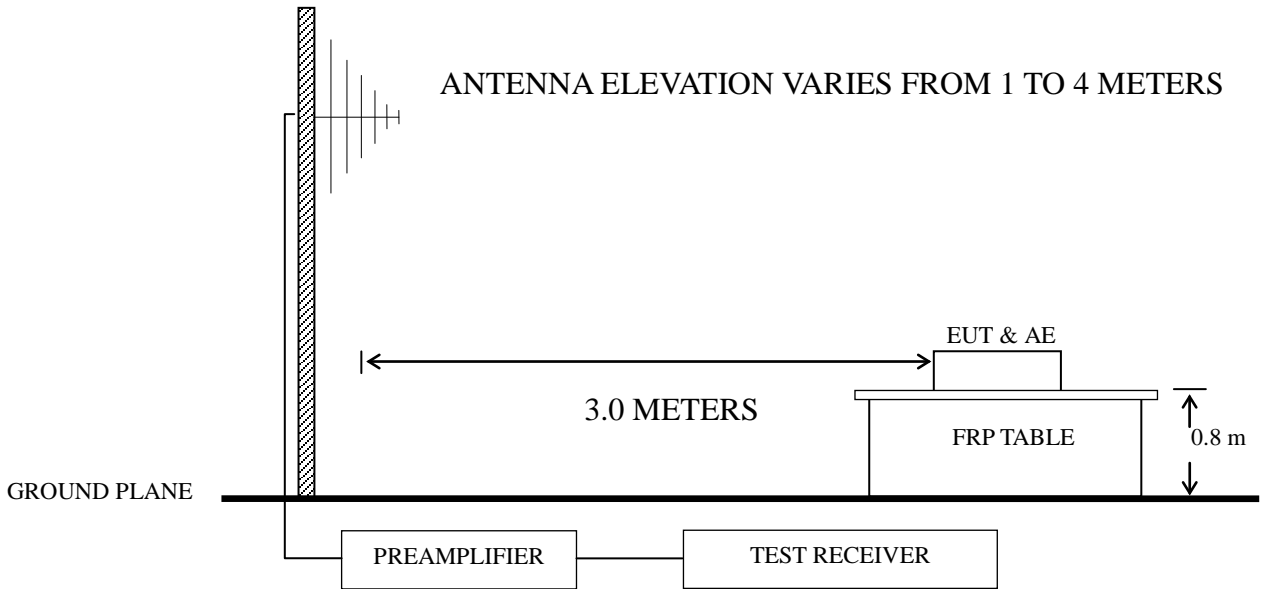
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2023.02.22	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2023.02.22	1 Year
3.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
4.	Test Receiver	R&S	ESCI	101303	2023.02.22	1 Year
5.	Bilog Antenna+6dB Attenuator	Schwarz beck	VULB 9168+EMCI-N-6-06	708+AT-N0638	2023.02.07	1 Year
6.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2023.01.30	1 Year
8.	Cavity Band Rejection Filter	Microwave	WT-A2276-R10	WT200312-1-3	2023.02.22	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6200655086	2023.02.22	1 Year
10.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-E W0630-N1K50-15m-1	RE-10m-001/ RE-15m-002	2023.02.22	1 Year
11.	Software	Audix	e3	v9.210616	--	--

## 4.2 Block Diagram of Test Setup

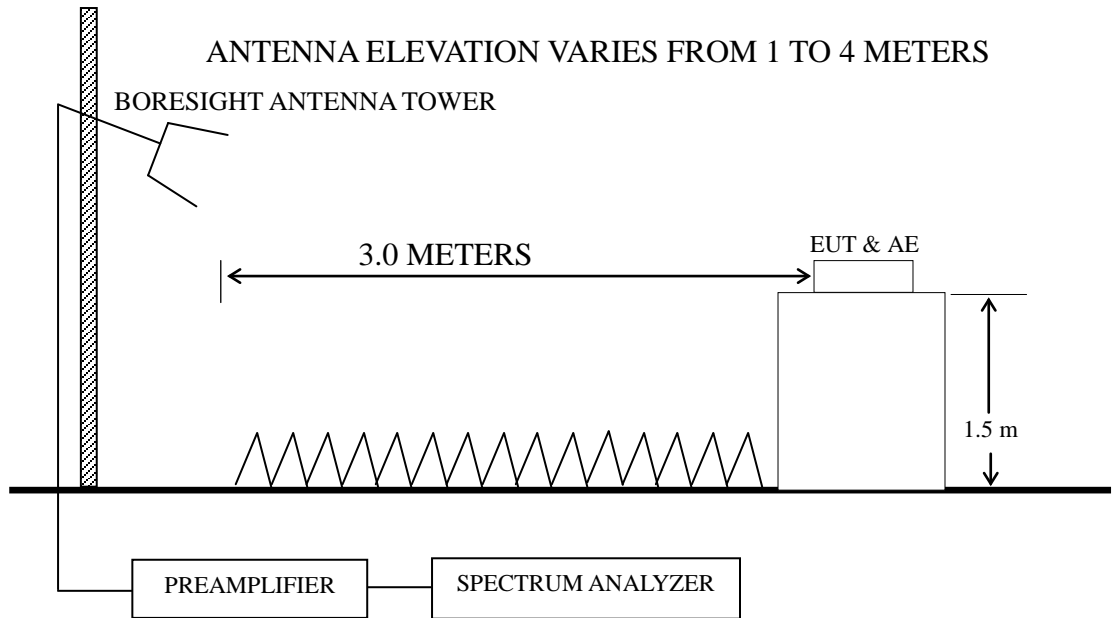
### 4.2.1 EUT & Peripherals



### 4.2.2 Below 1GHz



### 4.2.3 Above 1GHz



### 4.3 Radiated Emission Limit

§15.209:

Frequency (MHz)	Distance (m)	Field strength limits (mV/m)	
		(mV/m)	dB(mV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB (mV/m) = 20 log Emission Level (mV/m)  
 NOTE 2 - The tighter limit applies at the band edges.  
 NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.  
 NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.  
 NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) 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.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

### 4.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

## 4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 4.2.

4.5.2 Turn on the power of all equipment.

4.5.3 Turn the EUT on the test mode, and then test.

## 4.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 30 MHz to 40 GHz (Up to 10<sup>th</sup> harmonics from fundamental frequency) was checked.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,  
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

All the test results are listed in Sec.4.7.

## 4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

No any emissions were found from 18GHz to 40GHz. So the Radiated emission from 18GHz to 40GHz were not record.

Frequency range: below 1GHz (Worst case emission)

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P24-25

Frequency range: above 1GHz

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P26-27
2.			40	5200 MHz	P28-29
3.			48	5240 MHz	P30-31
4.			52	5260 MHz	P32-33
5.			60	5300 MHz	P34-35
6.			64	5320 MHz	P36-37
7.			100	5500 MHz	P38-39
8.			116	5580 MHz	P40-41
9.			140	5700 MHz	P42-43
10.			149	5745 MHz	P44-45
11.			157	5785 MHz	P46-47
12.			165	5825 MHz	P48-49
13.			802.11n20	165	5825 MHz
14.		802.11n40	159	5795 MHz	P52-53

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Standing direction, for this direction was the maximum emission direction during the test. The data of Side & Lying direction are too low against the official limit to be reported.

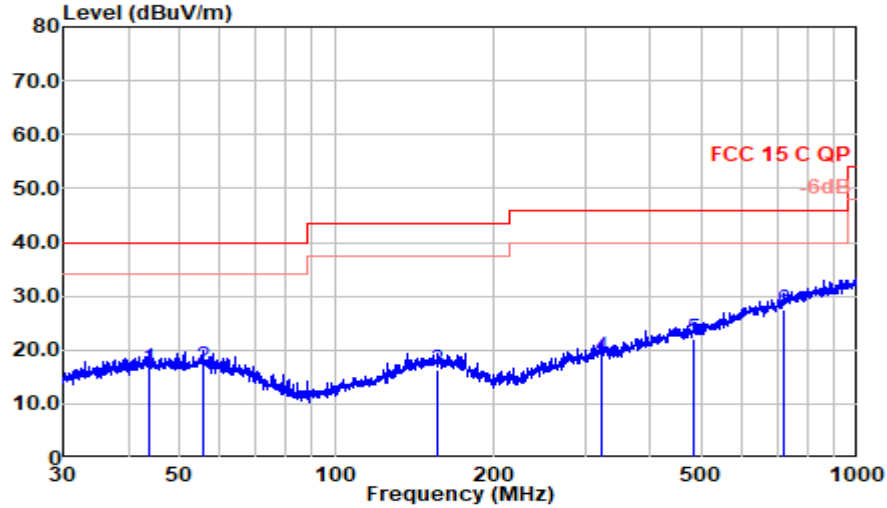
NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

### Radiated emission < 1GHz

Test Date:	2023.11.05-12.10	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------------	-------------	------------	----------	-------

Mode: 802.11a CH5180MHz

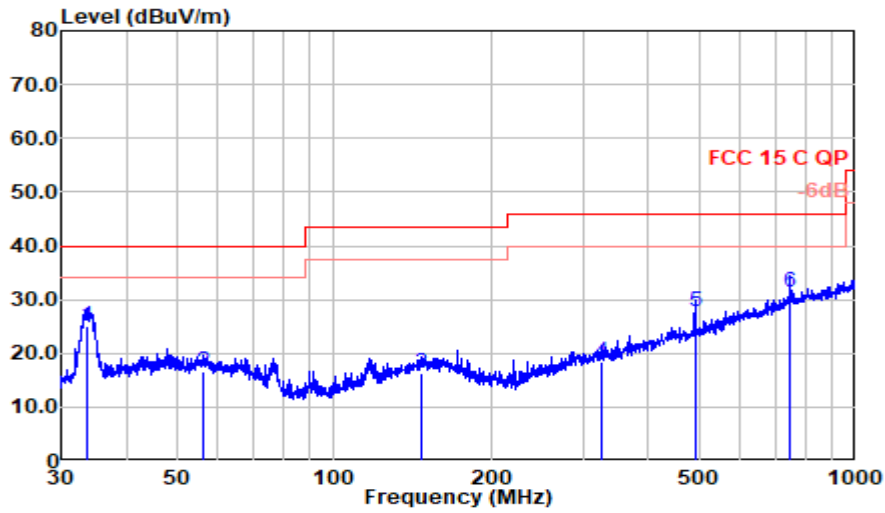


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
43.812	25.87	19.82	0.72	29.90	16.51	40.00	23.49	QP
55.512	26.37	19.65	0.81	29.88	16.95	40.00	23.05	QP
156.184	24.99	19.30	1.38	29.38	16.29	43.50	27.21	QP
323.320	25.39	20.13	1.96	28.80	18.69	46.00	27.31	QP
483.062	25.90	23.26	2.45	29.43	22.17	46.00	23.83	QP
722.992	25.58	27.36	2.95	28.41	27.49	46.00	18.51	QP



**Mode: 802.11a CH5180MHz**



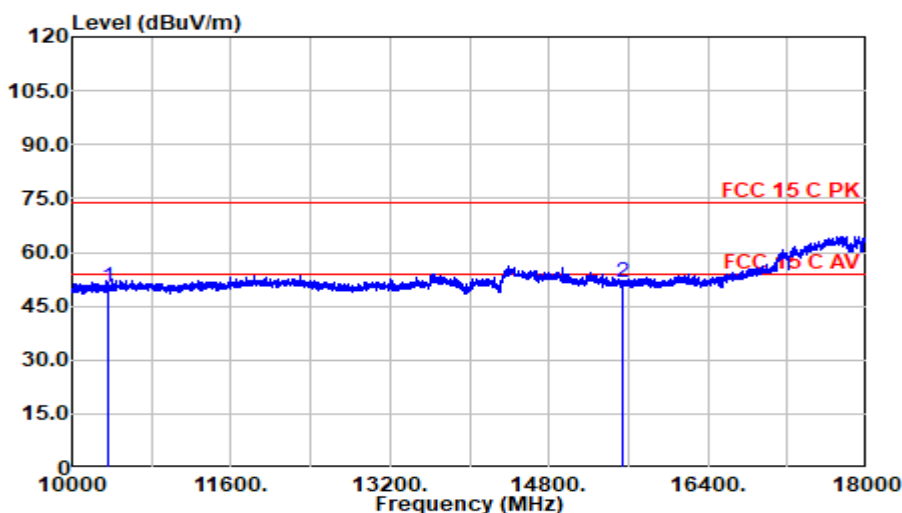
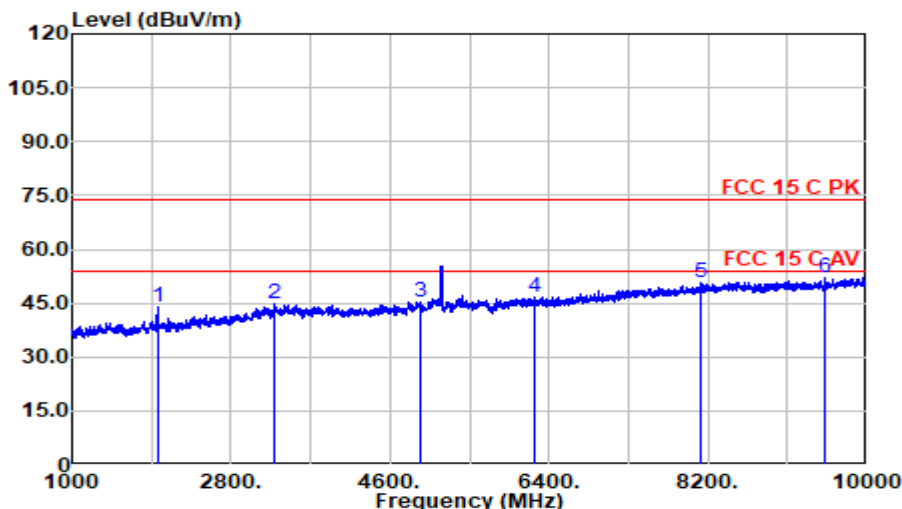
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
33.562	35.89	18.57	0.63	29.90	25.19	40.00	14.81	QP
56.395	26.26	19.52	0.82	29.87	16.73	40.00	23.27	QP
147.404	25.16	19.14	1.33	29.42	16.22	43.50	27.28	QP
326.740	25.06	20.20	1.97	28.81	18.41	46.00	27.59	QP
492.469	31.41	23.45	2.48	29.47	27.86	46.00	18.14	QP
750.108	28.76	28.00	3.00	28.30	31.45	46.00	14.55	QP

### Radiated Emission > 1GHz

Test Date:	2023.11.05-12.10	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------------	-------------	------------	----------	-------

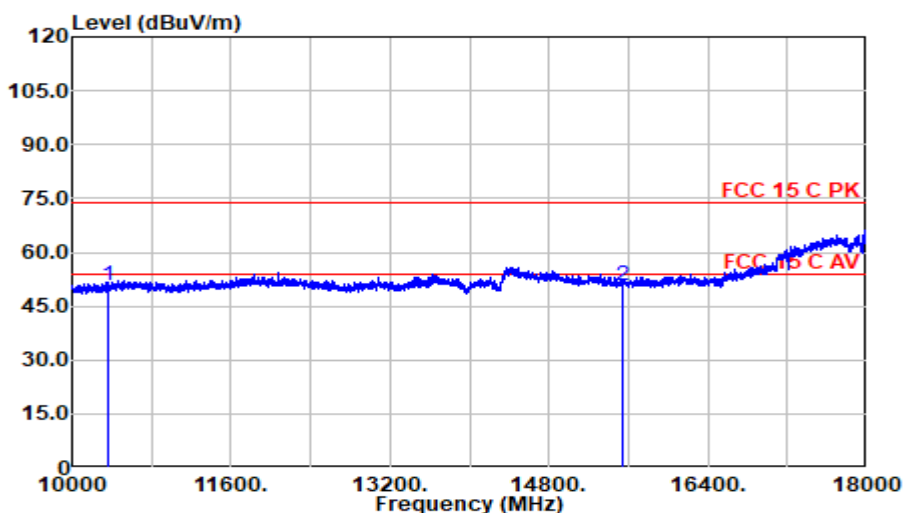
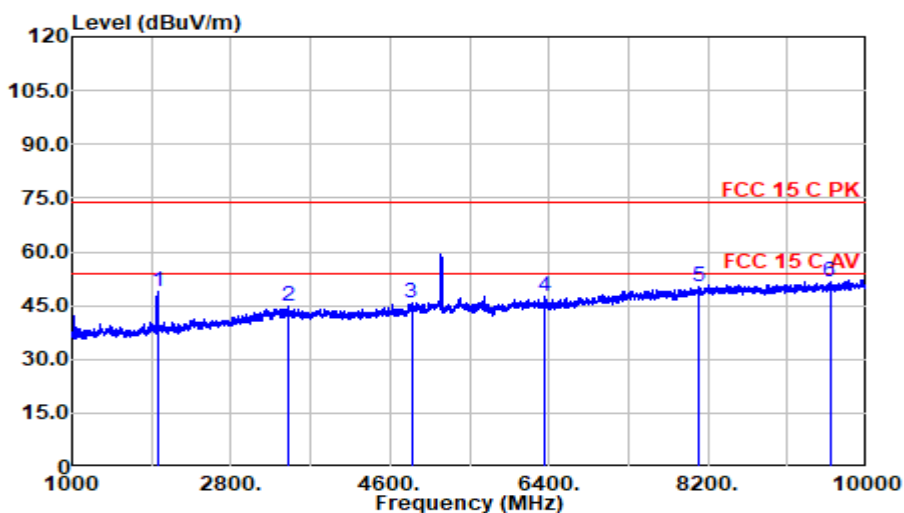
Mode: 802.11a CH5180MHz



#### Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1965.250	47.90	27.50	4.97	36.50	43.87	74.00	30.13	Peak
3288.250	42.49	31.33	6.15	35.27	44.70	74.00	29.30	Peak
4935.250	39.04	33.29	7.75	34.62	45.45	74.00	28.55	Peak
6238.000	38.15	34.68	8.63	34.60	46.85	74.00	27.15	Peak
8116.750	37.67	37.37	10.35	34.88	50.51	74.00	23.49	Peak
9525.250	37.18	38.30	11.07	34.65	51.90	74.00	22.10	Peak
10360.000	34.92	38.46	11.51	34.45	50.44	74.00	23.56	Peak
15540.000	31.71	39.80	13.25	33.01	51.74	74.00	22.26	Peak

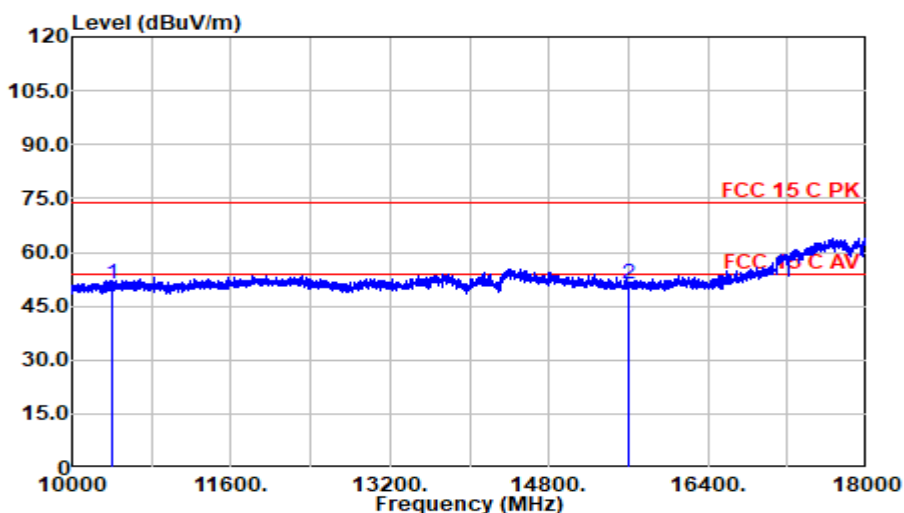
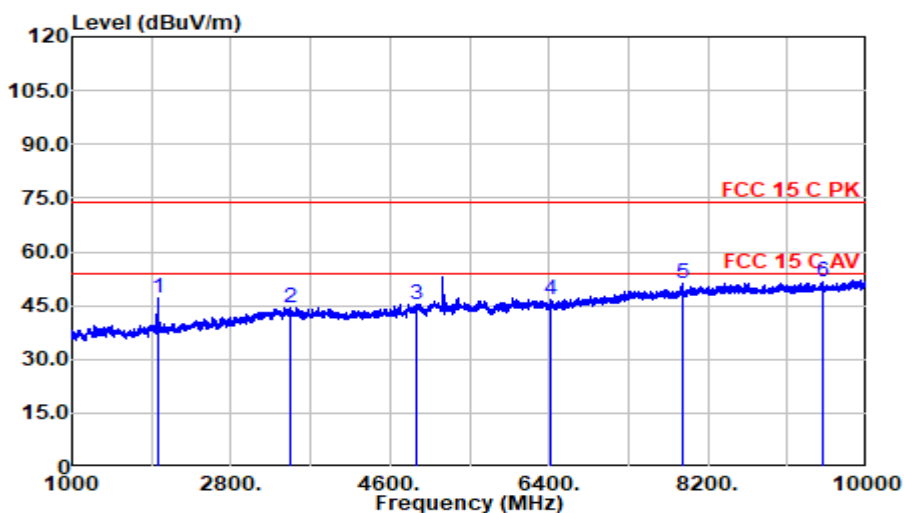
Mode: 802.11a CH5180MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	52.75	27.50	4.97	36.50	48.72	74.00	25.28	Peak
3452.500	42.41	31.51	6.30	35.20	45.01	74.00	28.99	Peak
4843.000	39.66	33.16	7.66	34.66	45.82	74.00	28.18	Peak
6346.000	38.72	34.70	8.72	34.60	47.54	74.00	26.46	Peak
8087.500	37.47	37.28	10.34	34.88	50.21	74.00	23.79	Peak
9581.500	37.03	38.20	11.12	34.64	51.71	74.00	22.29	Peak
10360.000	35.33	38.46	11.51	34.45	50.86	74.00	23.14	Peak
15540.000	30.88	39.80	13.25	33.01	50.92	74.00	23.08	Peak

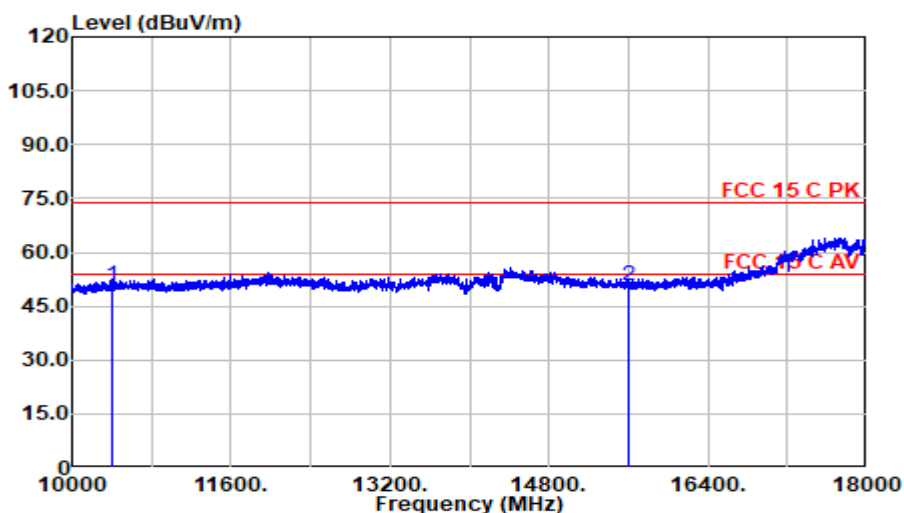
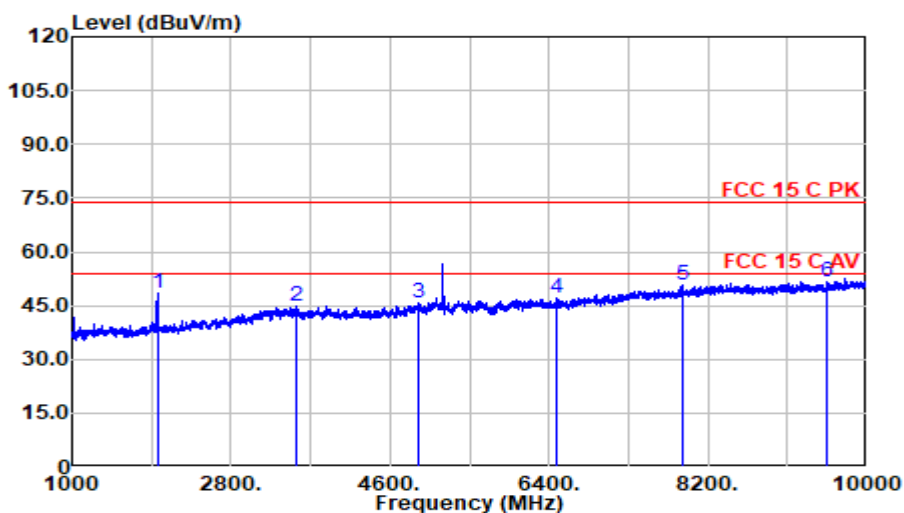
Mode: 802.11a CH5200MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1965.250	51.32	27.50	4.97	36.50	47.29	74.00	26.71	Peak
3466.000	41.92	31.53	6.31	35.20	44.56	74.00	29.44	Peak
4903.750	38.85	33.48	7.72	34.63	45.41	74.00	28.59	Peak
6413.500	37.94	34.50	8.78	34.60	46.62	74.00	27.38	Peak
7912.000	38.45	37.38	10.22	34.88	51.17	74.00	22.83	Peak
9496.000	36.81	38.38	11.05	34.65	51.59	74.00	22.41	Peak
10400.000	35.36	38.50	11.52	34.44	50.95	74.00	23.05	Peak
15600.000	30.87	39.80	13.33	33.02	50.98	74.00	23.02	Peak

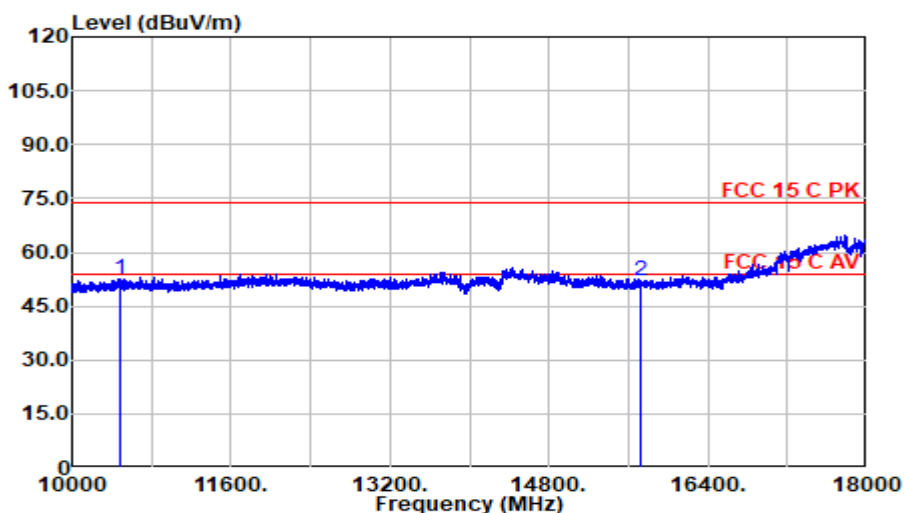
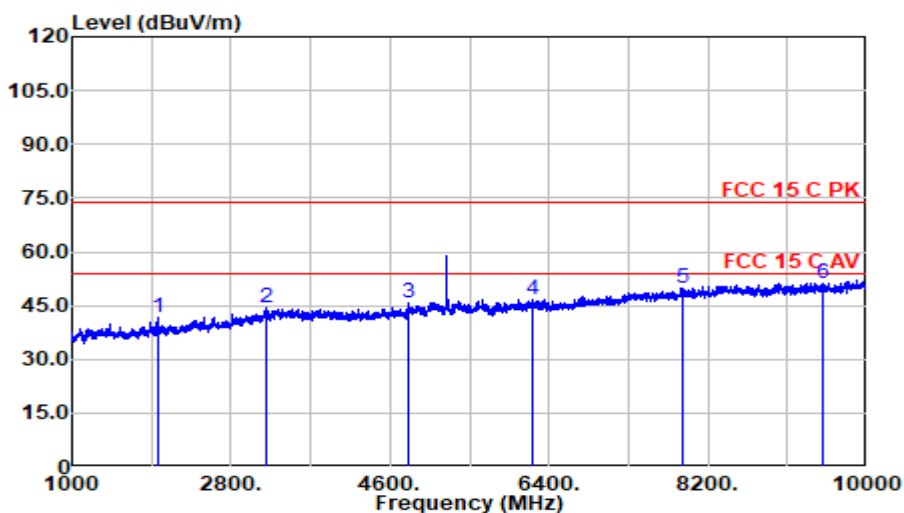
Mode: 802.11a CH5200MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	52.32	27.50	4.97	36.50	48.29	74.00	25.71	Peak
3538.000	42.11	31.52	6.37	35.17	44.83	74.00	29.17	Peak
4926.250	39.16	33.34	7.74	34.63	45.61	74.00	28.39	Peak
6485.500	38.43	34.64	8.84	34.60	47.31	74.00	26.69	Peak
7914.250	38.06	37.37	10.22	34.88	50.78	74.00	23.22	Peak
9554.500	37.11	38.20	11.10	34.64	51.77	74.00	22.23	Peak
10400.000	35.01	38.50	11.52	34.44	50.60	74.00	23.40	Peak
15600.000	30.42	39.80	13.33	33.02	50.53	74.00	23.47	Peak

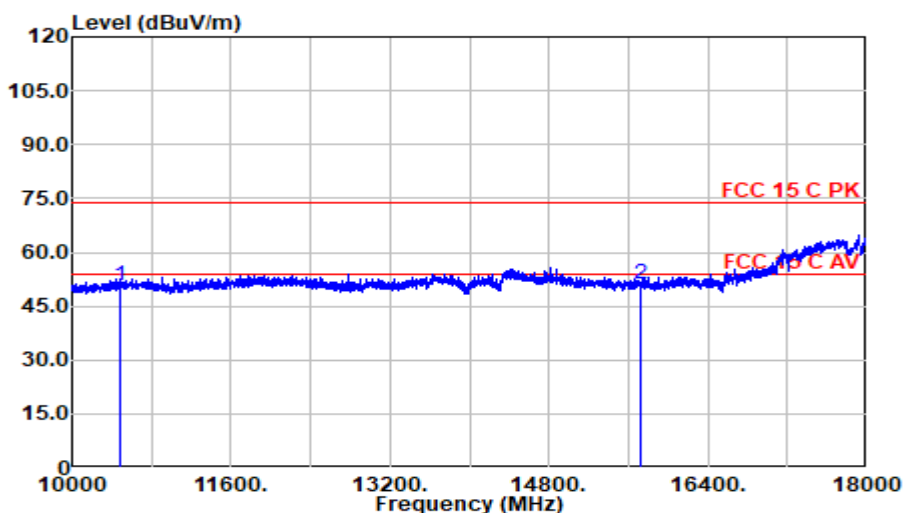
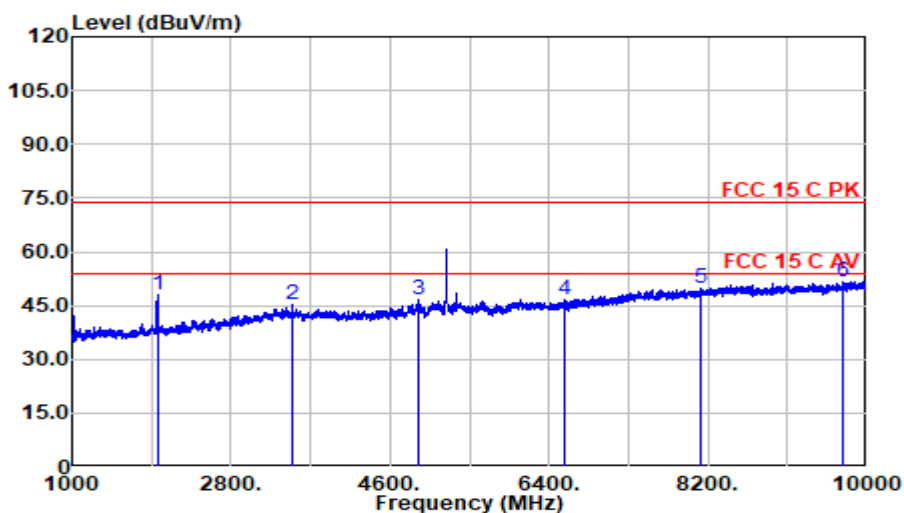
Mode: 802.11a CH5240MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1965.250	45.76	27.50	4.97	36.50	41.73	74.00	32.27	Peak
3200.500	42.30	31.10	6.07	35.31	44.16	74.00	29.84	Peak
4800.250	39.70	32.90	7.62	34.67	45.54	74.00	28.46	Peak
6215.500	38.10	34.63	8.61	34.60	46.74	74.00	27.26	Peak
7923.250	37.27	37.35	10.23	34.88	49.98	74.00	24.02	Peak
9498.250	36.44	38.39	11.05	34.65	51.23	74.00	22.77	Peak
10480.000	36.68	38.58	11.53	34.40	52.39	74.00	21.61	Peak
15720.000	31.81	39.90	13.50	33.05	52.16	74.00	21.84	Peak

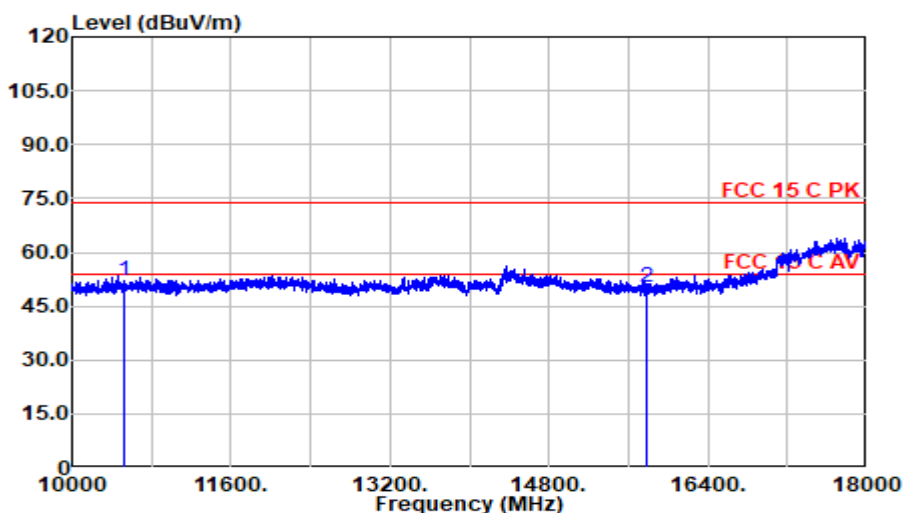
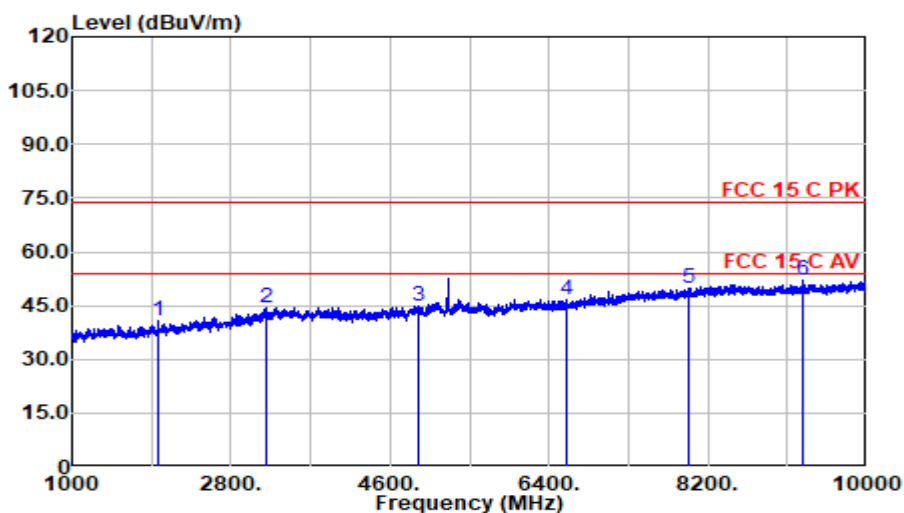
Mode: 802.11a CH5240MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1965.250	51.80	27.50	4.97	36.50	47.77	74.00	26.23	Peak
3493.000	42.60	31.59	6.34	35.19	45.33	74.00	28.67	Peak
4915.000	39.93	33.41	7.73	34.63	46.44	74.00	27.56	Peak
6566.500	37.63	34.73	8.91	34.60	46.67	74.00	27.33	Peak
8123.500	36.84	37.39	10.35	34.87	49.72	74.00	24.28	Peak
9736.750	36.98	38.10	11.24	34.63	51.70	74.00	22.30	Peak
10480.000	34.93	38.58	11.53	34.40	50.64	74.00	23.36	Peak
15720.000	30.79	39.90	13.50	33.05	51.14	74.00	22.86	Peak

Mode: 802.11a CH5260MHz

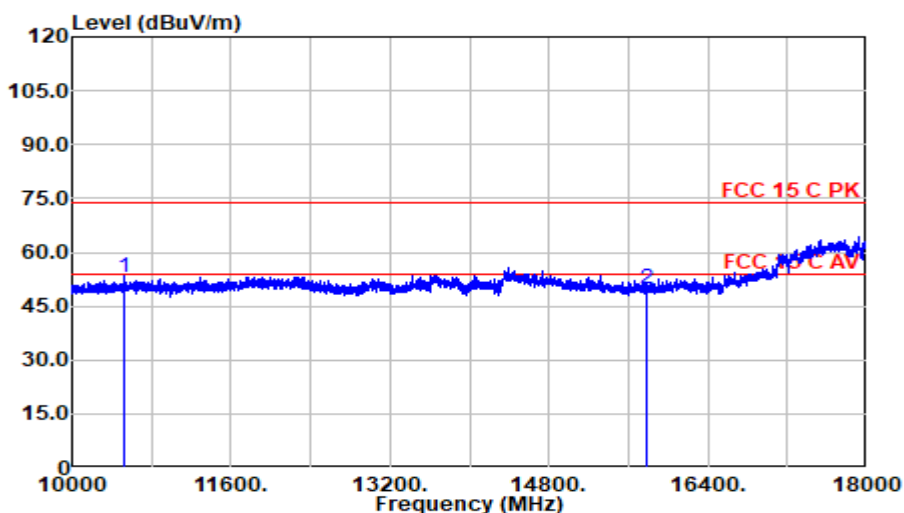
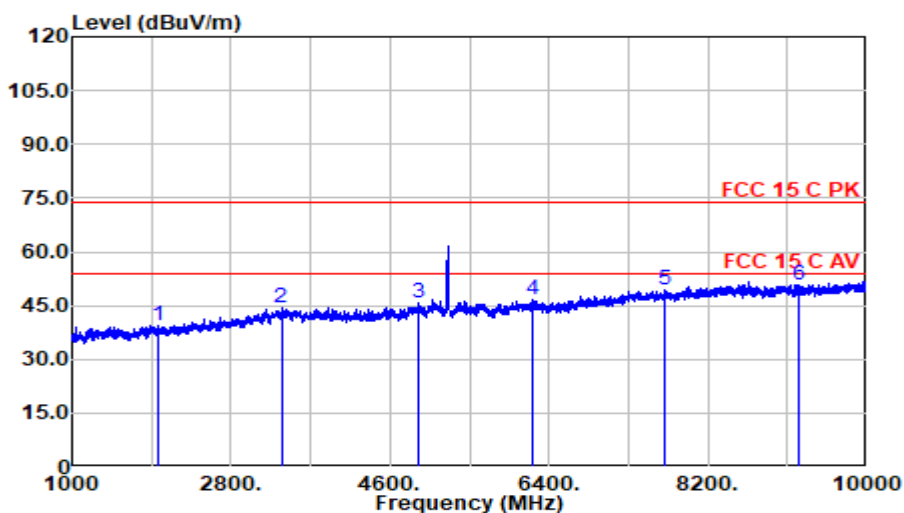


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	44.80	27.50	4.97	36.50	40.77	74.00	33.23	Peak
3198.250	42.60	31.09	6.07	35.31	44.45	74.00	29.55	Peak
4930.750	38.29	33.32	7.74	34.63	44.73	74.00	29.27	Peak
6607.000	37.37	34.81	8.94	34.60	46.52	74.00	27.48	Peak
7977.250	37.18	37.25	10.29	34.89	49.82	74.00	24.18	Peak
9282.250	37.64	38.14	10.87	34.67	51.97	74.00	22.03	Peak
10520.000	36.51	38.60	11.54	34.39	52.26	74.00	21.74	Peak
15780.000	29.86	39.90	13.58	33.06	50.29	74.00	23.71	Peak



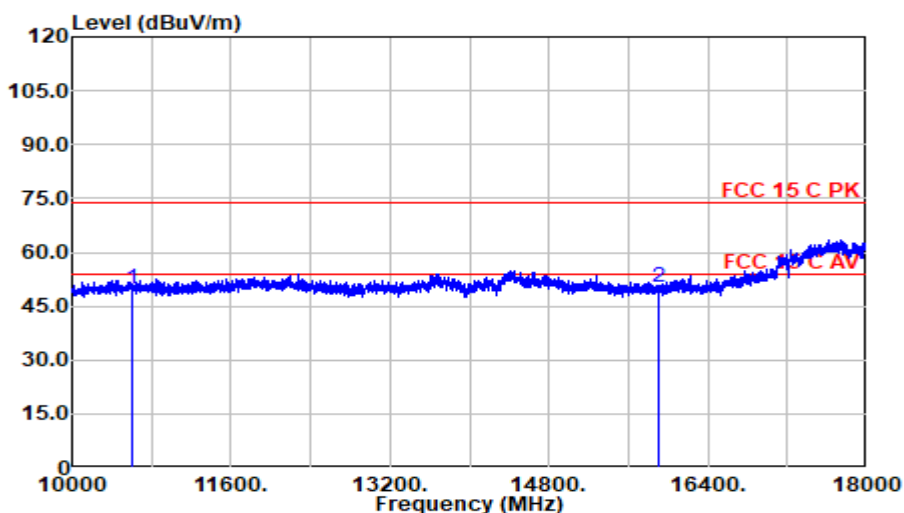
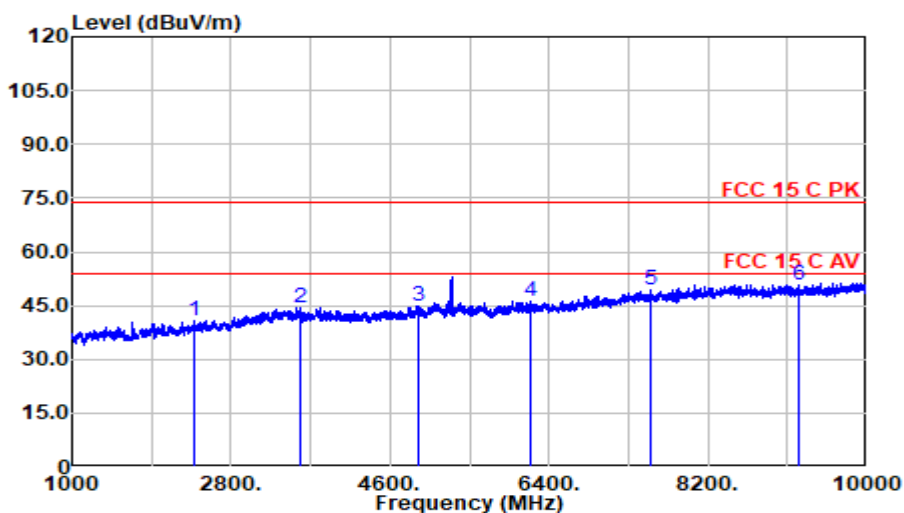
Mode: 802.11a CH5260MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	43.62	27.50	4.97	36.50	39.59	74.00	34.41	Peak
3369.250	41.78	31.40	6.23	35.24	44.17	74.00	29.83	Peak
4926.250	39.09	33.34	7.74	34.63	45.55	74.00	28.45	Peak
6222.250	38.06	34.64	8.62	34.60	46.72	74.00	27.28	Peak
7720.750	37.52	36.84	10.03	34.82	49.57	74.00	24.43	Peak
9232.750	36.40	38.23	10.83	34.68	50.79	74.00	23.21	Peak
10520.000	37.16	38.60	11.54	34.39	52.91	74.00	21.09	Peak
15780.000	29.50	39.90	13.58	33.06	49.92	74.00	24.08	Peak

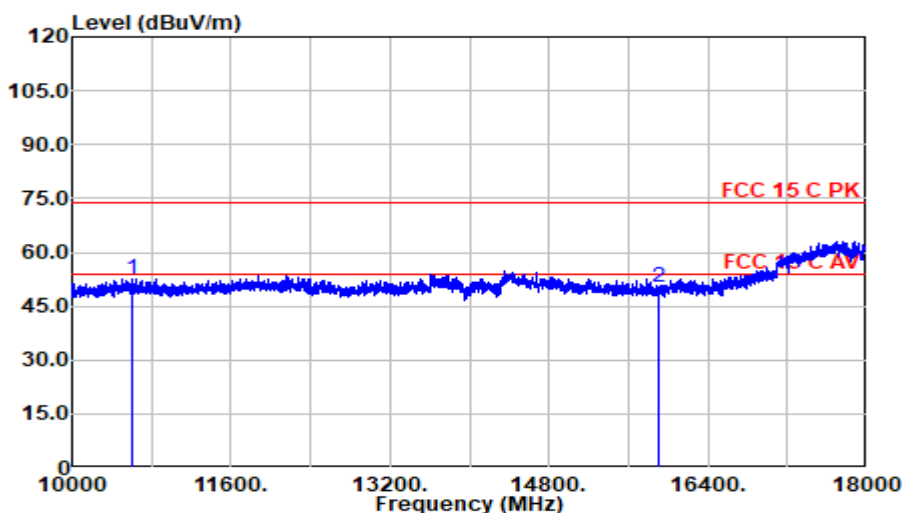
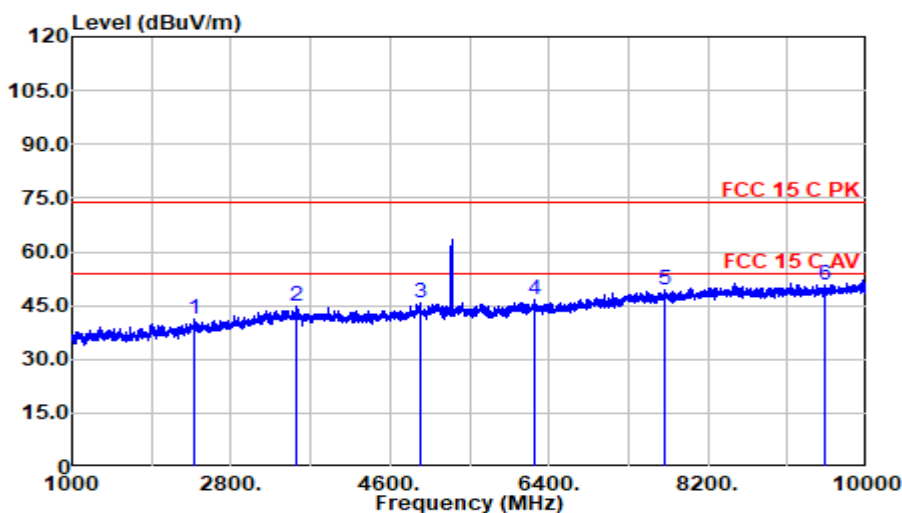
Mode: 802.11a CH5300MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2388.250	42.85	28.55	5.39	36.02	40.77	74.00	33.23	Peak
3580.750	41.66	31.50	6.41	35.15	44.42	74.00	29.58	Peak
4928.500	38.60	33.33	7.74	34.63	45.04	74.00	28.96	Peak
6202.000	37.69	34.60	8.60	34.60	46.29	74.00	27.71	Peak
7561.000	37.54	36.70	9.86	34.77	49.33	74.00	24.67	Peak
9223.750	36.39	38.25	10.82	34.68	50.79	74.00	23.21	Peak
10600.000	34.10	38.60	11.55	34.36	49.90	74.00	24.10	Peak
15900.000	29.65	40.10	13.74	33.08	50.41	74.00	23.59	Peak

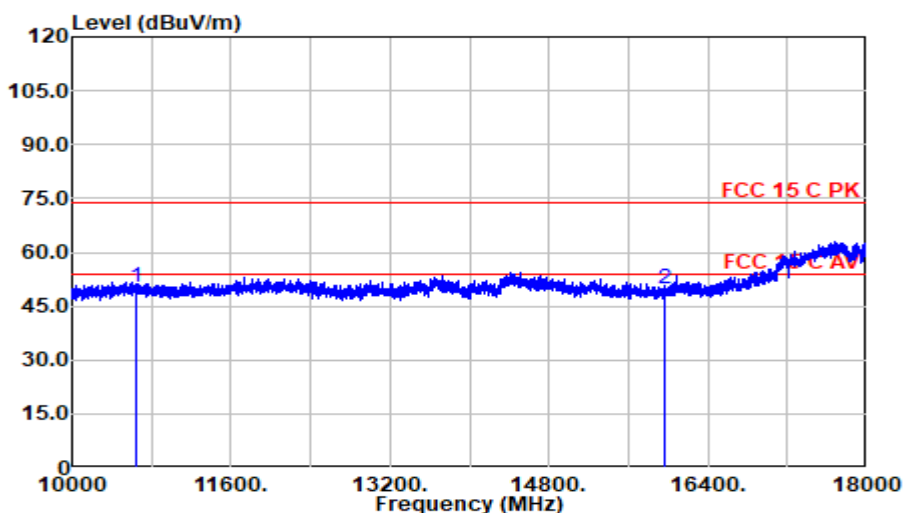
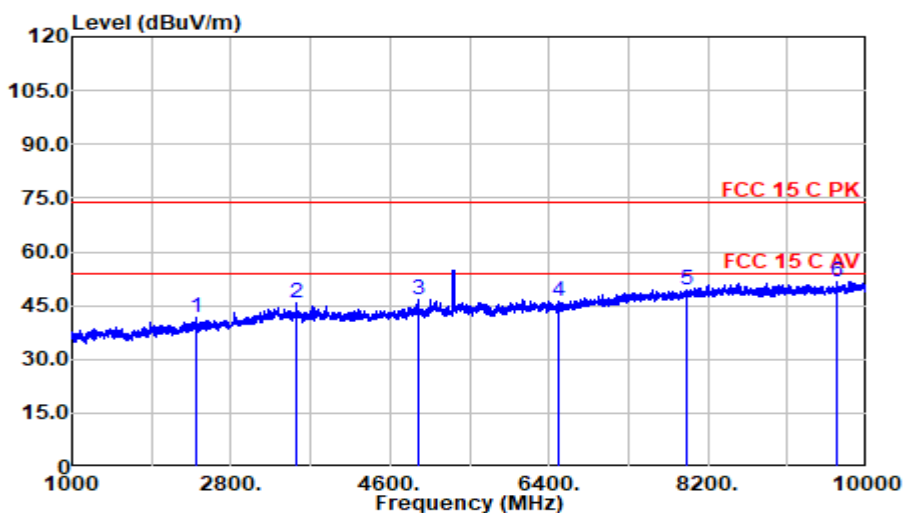
Mode: 802.11a CH5300MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2388.250	43.47	28.55	5.39	36.02	41.39	74.00	32.61	Peak
3533.500	42.32	31.53	6.37	35.17	45.05	74.00	28.95	Peak
4939.750	39.27	33.26	7.75	34.62	45.66	74.00	28.34	Peak
6242.500	37.87	34.69	8.63	34.60	46.59	74.00	27.41	Peak
7720.750	37.11	36.84	10.03	34.82	49.16	74.00	24.84	Peak
9525.250	36.02	38.30	11.07	34.65	50.74	74.00	23.26	Peak
10600.000	36.62	38.60	11.55	34.36	52.42	74.00	21.58	Peak
15900.000	29.69	40.10	13.74	33.08	50.46	74.00	23.54	Peak

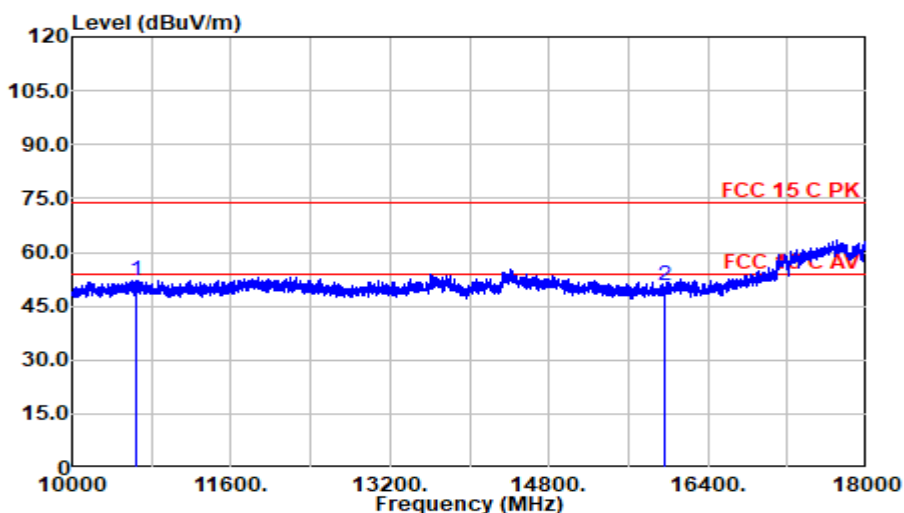
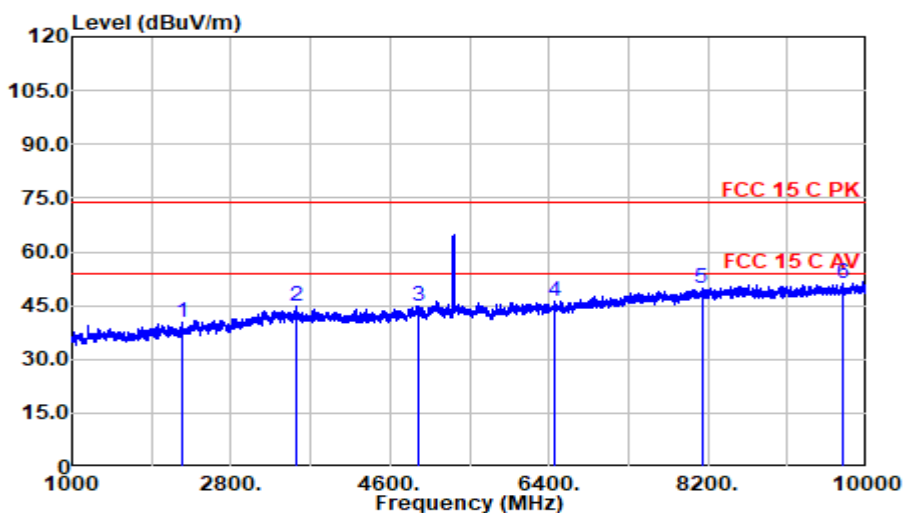
Mode: 802.11a CH5320MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2401.750	43.55	28.60	5.40	36.00	41.54	74.00	32.46	Peak
3547.000	42.85	31.51	6.38	35.17	45.57	74.00	28.43	Peak
4930.750	40.10	33.32	7.74	34.63	46.54	74.00	27.46	Peak
6503.500	37.27	34.70	8.85	34.60	46.22	74.00	27.78	Peak
7961.500	36.76	37.28	10.27	34.89	49.42	74.00	24.58	Peak
9660.250	36.72	38.18	11.18	34.63	51.45	74.00	22.55	Peak
10640.000	34.48	38.60	11.56	34.34	50.30	74.00	23.70	Peak
15960.000	29.02	40.10	13.83	33.09	49.85	74.00	24.15	Peak

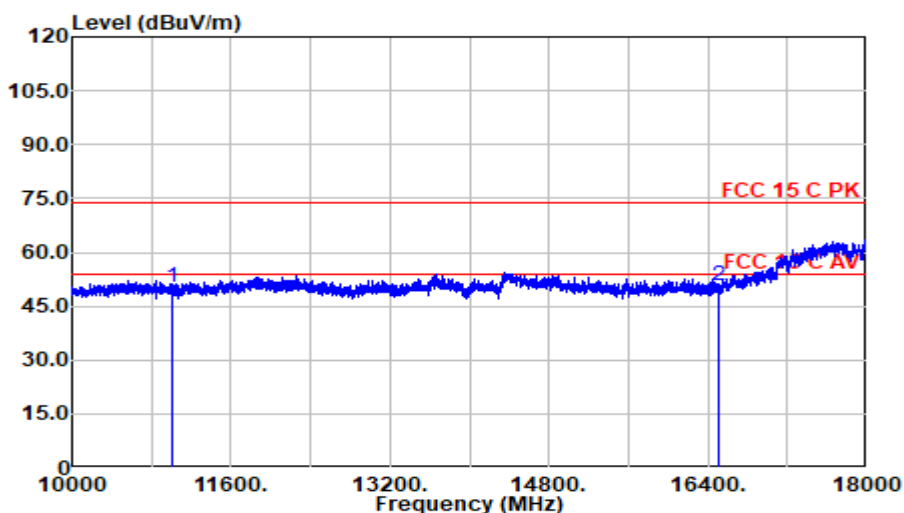
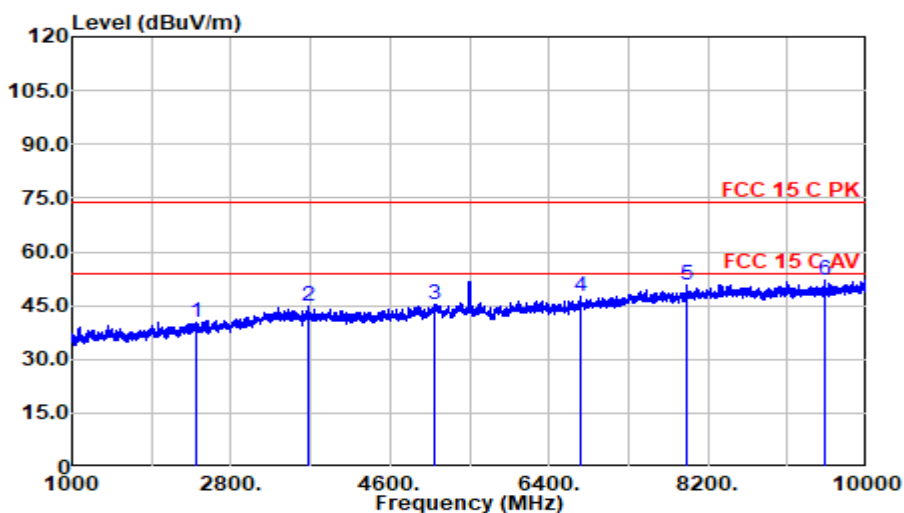
Mode: 802.11a CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2237.500	43.18	27.85	5.25	36.20	40.08	74.00	33.92	Peak
3547.000	41.94	31.51	6.38	35.17	44.66	74.00	29.34	Peak
4921.750	38.37	33.37	7.74	34.63	44.84	74.00	29.16	Peak
6467.500	37.51	34.57	8.82	34.60	46.30	74.00	27.70	Peak
8130.250	36.86	37.42	10.35	34.87	49.76	74.00	24.24	Peak
9727.750	36.51	38.10	11.24	34.63	51.22	74.00	22.78	Peak
10640.000	36.37	38.60	11.56	34.34	52.19	74.00	21.81	Peak
15960.000	29.98	40.10	13.83	33.09	50.81	74.00	23.19	Peak

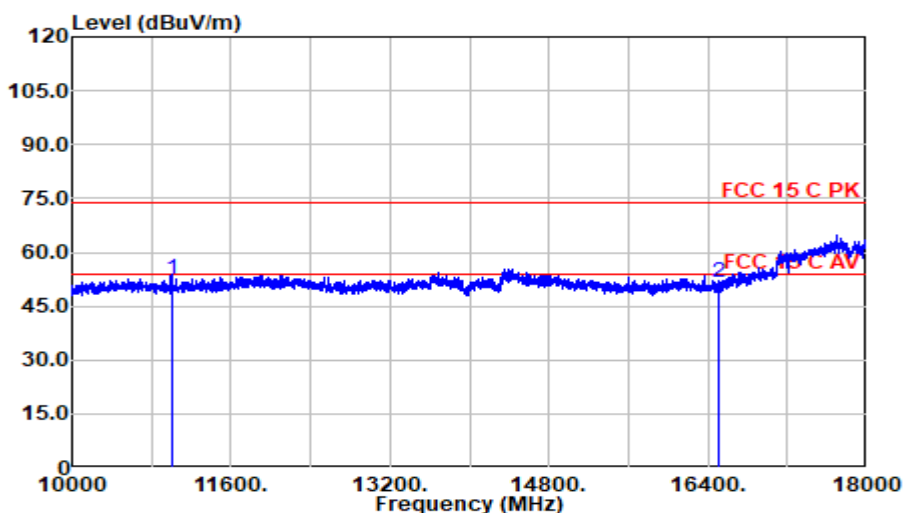
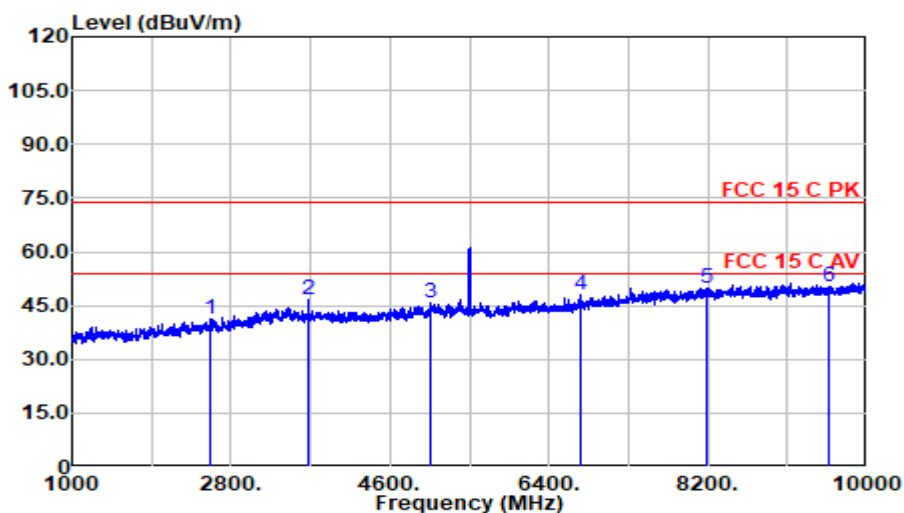
Mode: 802.11a CH5500MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2397.250	42.32	28.59	5.39	36.01	40.30	74.00	33.70	Peak
3666.250	41.63	31.70	6.48	35.12	44.69	74.00	29.31	Peak
5097.250	38.39	33.59	7.87	34.60	45.26	74.00	28.74	Peak
6766.750	37.57	35.37	9.07	34.60	47.40	74.00	26.60	Peak
7970.500	37.90	37.26	10.28	34.89	50.55	74.00	23.45	Peak
9523.000	37.14	38.31	11.07	34.65	51.87	74.00	22.13	Peak
11000.000	34.18	38.60	11.62	34.20	50.20	74.00	23.80	Peak
16500.000	28.49	40.60	14.34	32.80	50.64	74.00	23.36	Peak

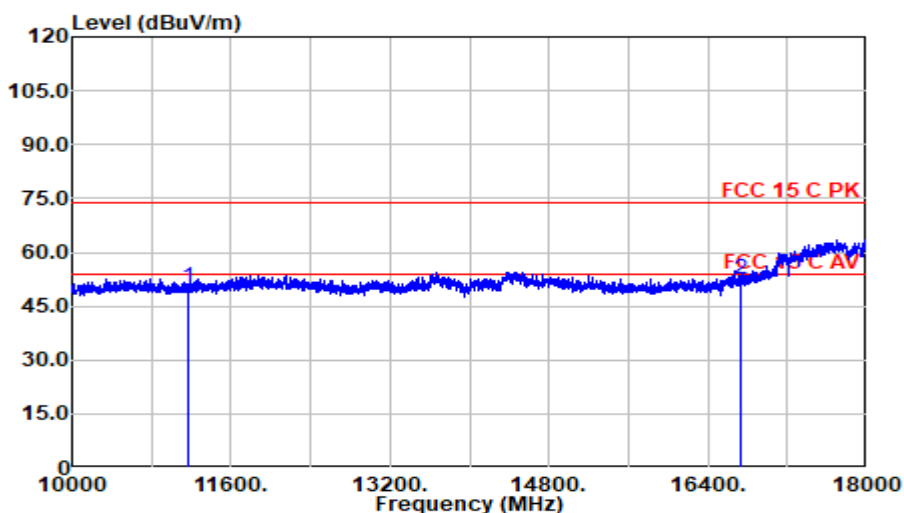
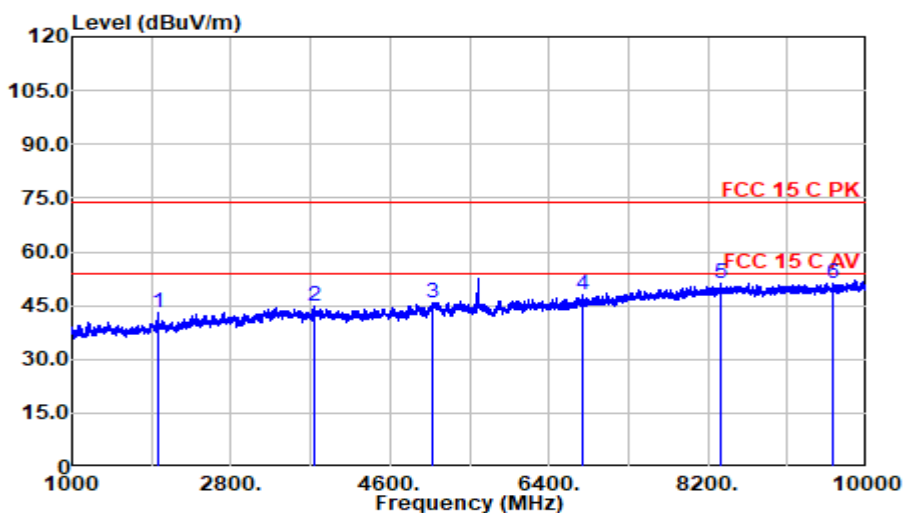
Mode: 802.11a CH5500MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2572.750	42.46	28.99	5.54	35.82	41.17	74.00	32.83	Peak
3666.250	43.61	31.70	6.48	35.12	46.67	74.00	27.33	Peak
5056.750	39.15	33.51	7.85	34.60	45.91	74.00	28.09	Peak
6766.750	38.18	35.37	9.07	34.60	48.01	74.00	25.99	Peak
8188.750	36.66	37.66	10.37	34.86	49.82	74.00	24.18	Peak
9559.000	35.68	38.20	11.10	34.64	50.33	74.00	23.67	Peak
11000.000	36.69	38.60	11.62	34.20	52.71	74.00	21.29	Peak
16500.000	29.44	40.60	14.34	32.80	51.58	74.00	22.42	Peak

Mode: 802.11a CH5580MHz

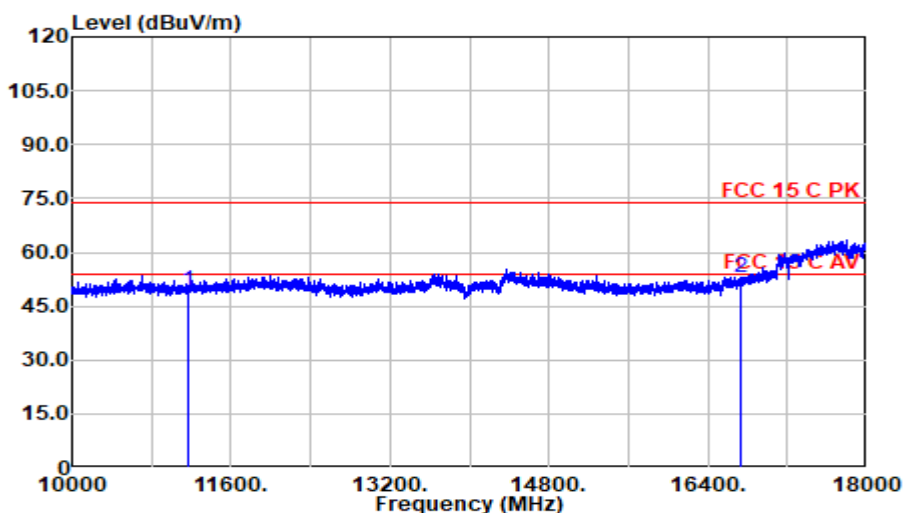
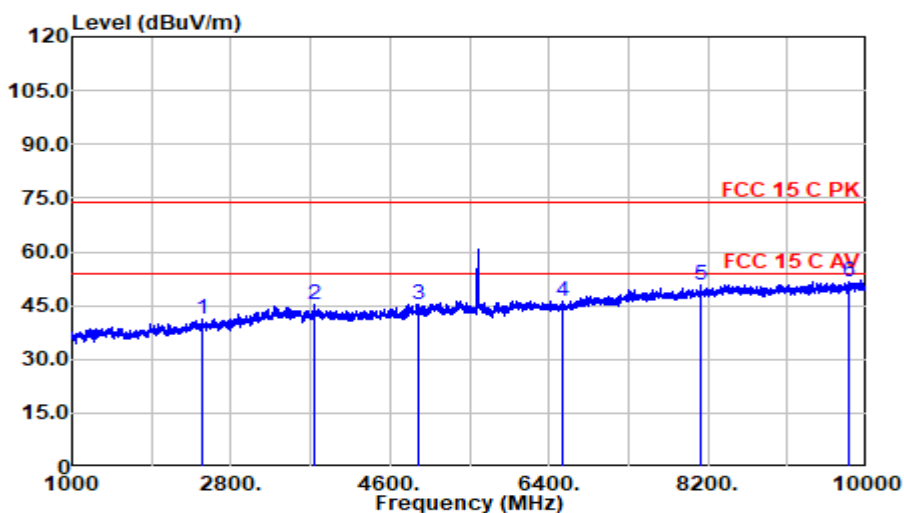


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	47.00	27.50	4.97	36.50	42.98	74.00	31.02	Peak
3733.750	41.30	32.10	6.54	35.10	44.84	74.00	29.16	Peak
5072.500	39.03	33.55	7.86	34.60	45.83	74.00	28.17	Peak
6778.000	38.00	35.34	9.08	34.60	47.82	74.00	26.18	Peak
8355.250	37.51	38.10	10.43	34.83	51.21	74.00	22.79	Peak
9615.250	36.51	38.20	11.14	34.64	51.22	74.00	22.78	Peak
11160.000	34.09	38.70	11.75	34.18	50.36	74.00	23.64	Peak
16740.000	28.98	41.64	14.56	32.65	52.52	74.00	21.48	Peak



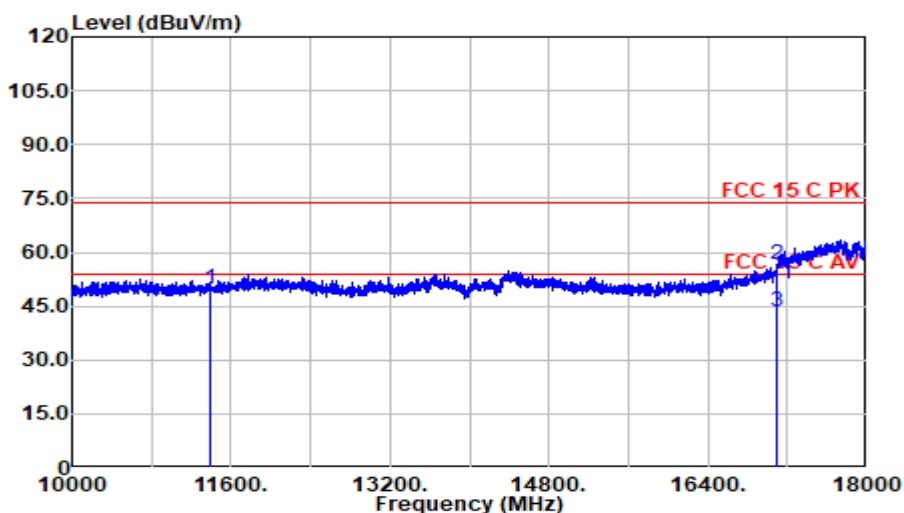
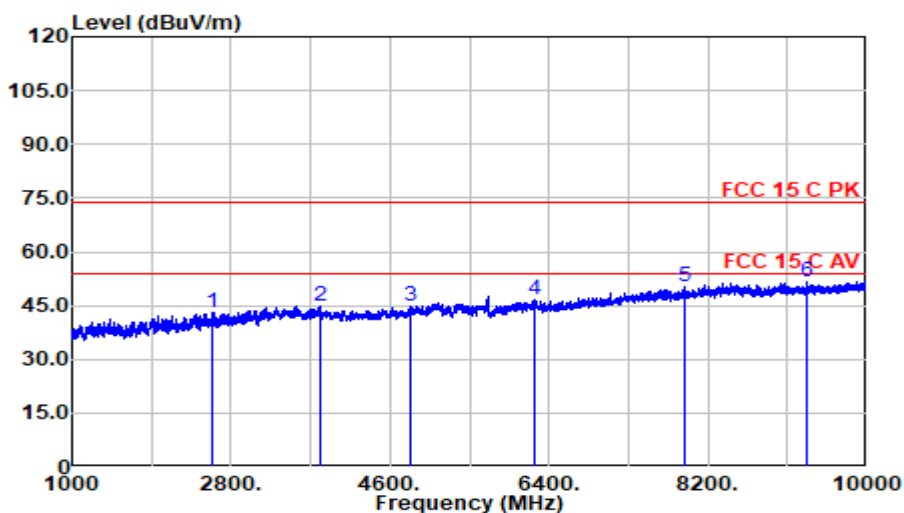
Mode: 802.11a CH5580MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2469.250	42.90	28.58	5.46	35.93	41.01	74.00	32.99	Peak
3733.750	41.81	32.10	6.54	35.10	45.36	74.00	28.64	Peak
4928.500	38.85	33.33	7.74	34.63	45.30	74.00	28.70	Peak
6548.500	37.42	34.70	8.89	34.60	46.41	74.00	27.59	Peak
8116.750	37.69	37.37	10.35	34.88	50.53	74.00	23.47	Peak
9804.250	36.86	38.11	11.30	34.62	51.65	74.00	22.35	Peak
11160.000	33.02	38.70	11.75	34.18	49.29	74.00	24.71	Peak
16740.000	29.59	41.64	14.56	32.65	53.14	74.00	20.86	Peak

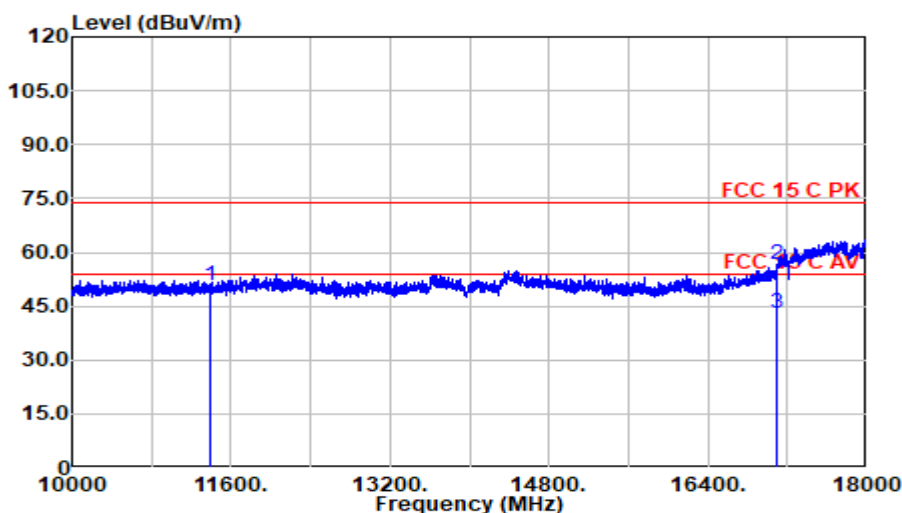
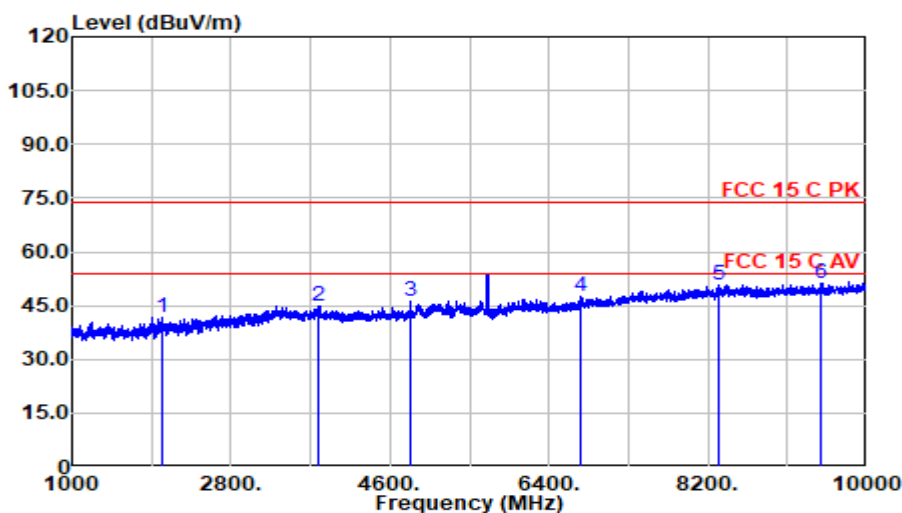
Mode: 802.11a CH5700MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2593.000	44.34	29.07	5.56	35.80	43.18	74.00	30.82	Peak
3801.250	40.81	32.50	6.59	35.07	44.83	74.00	29.17	Peak
4831.750	38.70	33.09	7.65	34.66	44.77	74.00	29.23	Peak
6240.250	37.76	34.68	8.63	34.60	46.47	74.00	27.53	Peak
7943.500	37.51	37.31	10.25	34.88	50.19	74.00	23.81	Peak
9329.500	37.15	38.04	10.91	34.67	51.44	74.00	22.56	Peak
11400.000	33.33	38.90	11.94	34.16	50.01	74.00	23.99	Peak
17100.000	30.89	43.30	14.94	32.47	56.67	74.00	17.33	Peak
17100.000	17.59	43.30	14.94	32.47	43.36	54.00	10.64	Average

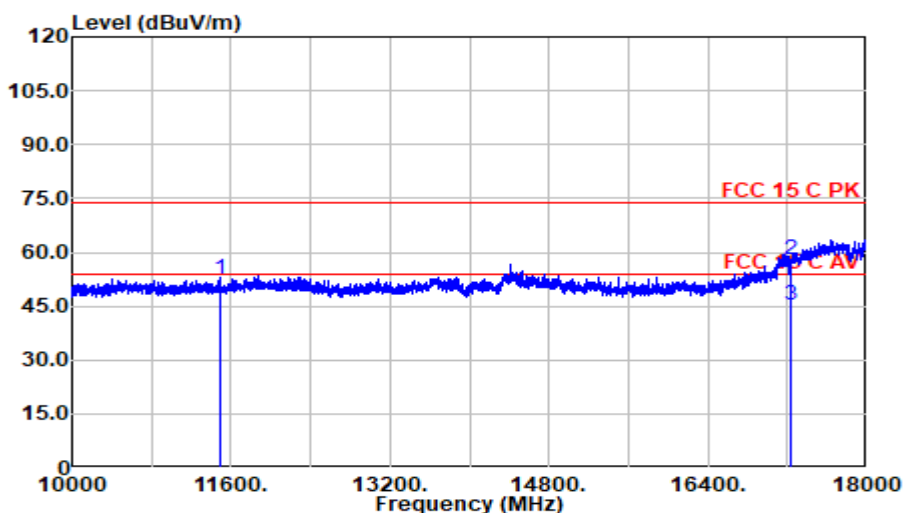
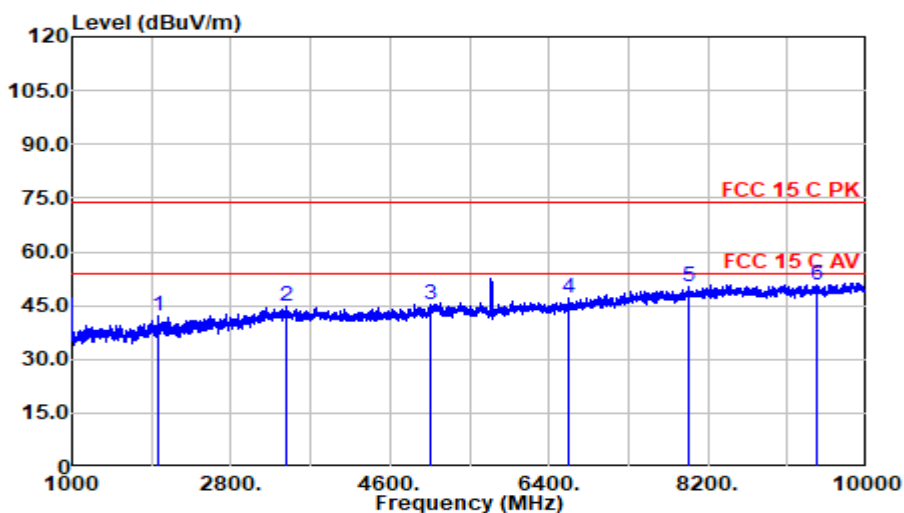
Mode: 802.11a CH5700MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2026.000	45.31	27.60	5.04	36.46	41.49	74.00	32.51	Peak
3799.000	40.84	32.49	6.59	35.07	44.85	74.00	29.15	Peak
4834.000	39.99	33.10	7.65	34.66	46.08	74.00	27.92	Peak
6764.500	37.80	35.37	9.07	34.60	47.64	74.00	26.36	Peak
8312.500	37.41	37.95	10.41	34.83	50.94	74.00	23.06	Peak
9469.000	36.33	38.28	11.03	34.65	50.98	74.00	23.02	Peak
11400.000	33.87	38.90	11.94	34.16	50.55	74.00	23.45	Peak
17100.000	30.79	43.30	14.94	32.47	56.56	74.00	17.44	Peak
17100.000	17.38	43.30	14.94	32.47	43.15	54.00	10.85	Average

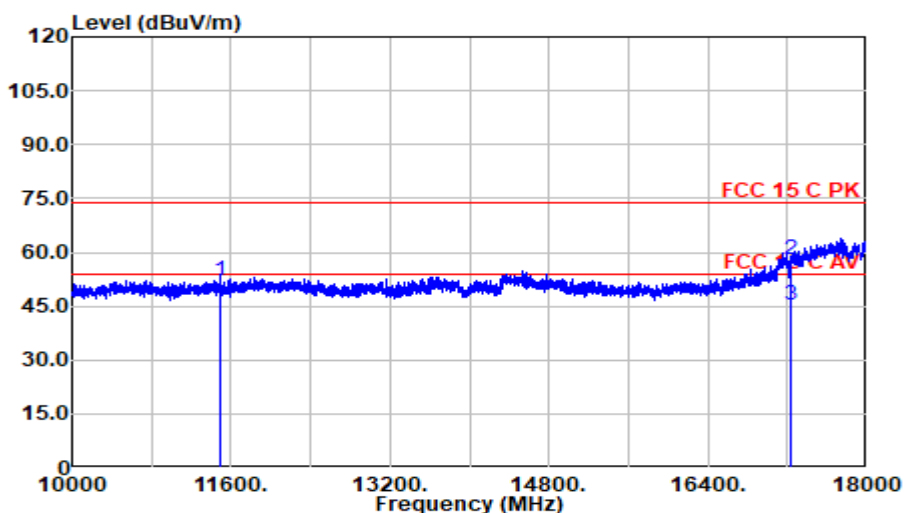
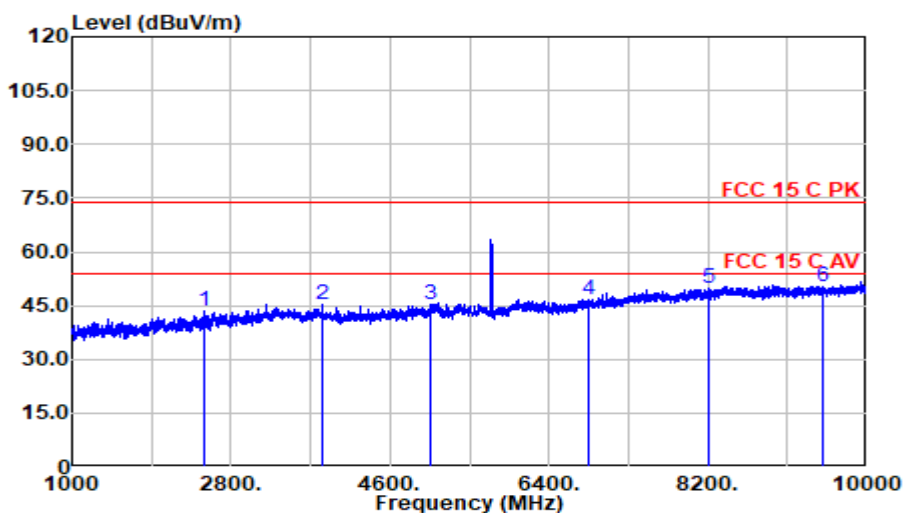
Mode: 802.11a CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1967.500	46.03	27.50	4.97	36.50	42.00	74.00	32.00	Peak
3421.000	42.19	31.44	6.27	35.22	44.69	74.00	29.31	Peak
5061.250	38.59	33.52	7.85	34.60	45.37	74.00	28.63	Peak
6622.750	37.78	34.85	8.95	34.60	46.98	74.00	27.02	Peak
7984.000	37.48	37.23	10.29	34.90	50.11	74.00	23.89	Peak
9424.000	36.36	38.20	10.99	34.66	50.90	74.00	23.10	Peak
11490.000	35.54	39.08	12.01	34.15	52.49	74.00	21.51	Peak
17236.000	31.31	43.98	15.15	32.43	58.02	74.00	15.98	Peak
17236.000	18.63	43.98	15.15	32.43	45.34	54.00	8.66	Average

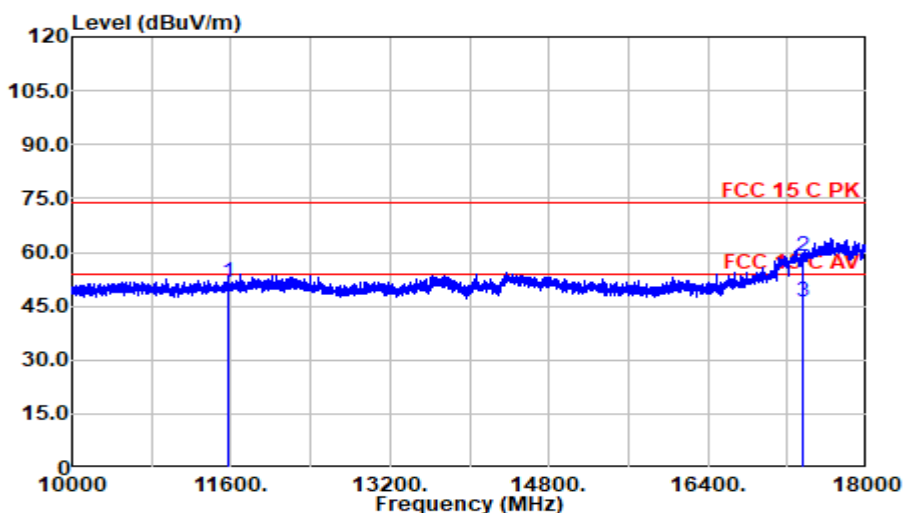
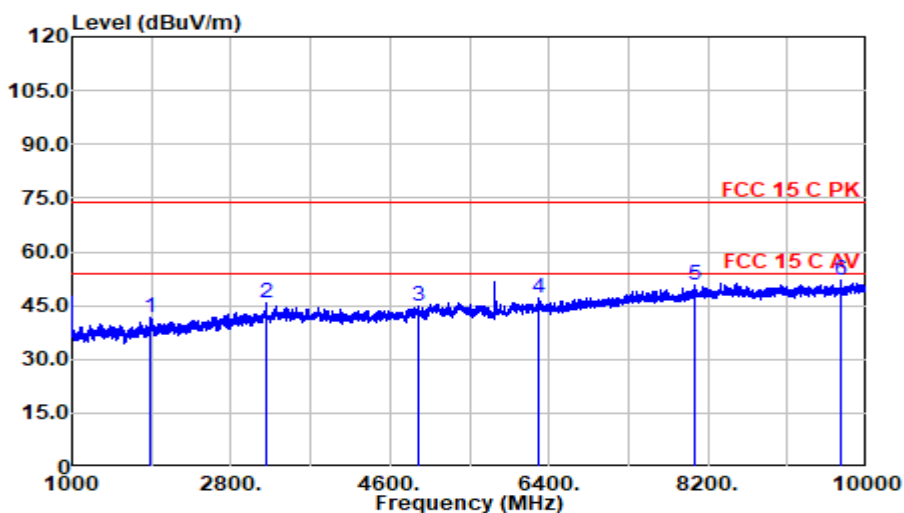
Mode: 802.11a CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2496.250	45.18	28.69	5.48	35.90	43.45	74.00	30.55	Peak
3830.500	41.43	32.50	6.62	35.06	45.48	74.00	28.52	Peak
5059.000	38.64	33.52	7.85	34.60	45.40	74.00	28.60	Peak
6859.000	36.81	35.42	9.14	34.60	46.77	74.00	27.23	Peak
8200.000	36.49	37.70	10.38	34.86	49.71	74.00	24.29	Peak
9493.750	35.70	38.38	11.05	34.65	50.47	74.00	23.53	Peak
11490.000	35.29	39.08	12.01	34.15	52.23	74.00	21.77	Peak
17235.000	31.25	43.98	15.15	32.43	57.95	74.00	16.05	Peak
17235.000	18.52	43.98	15.15	32.43	45.22	54.00	8.78	Average

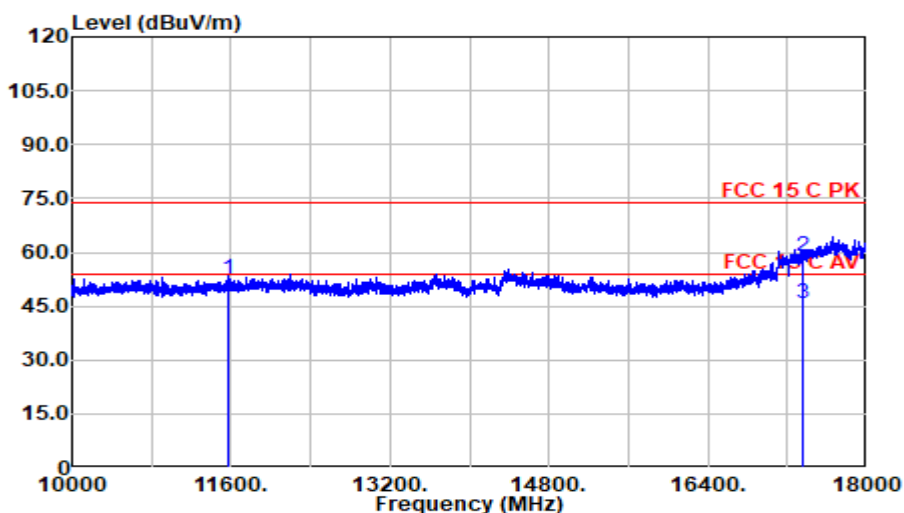
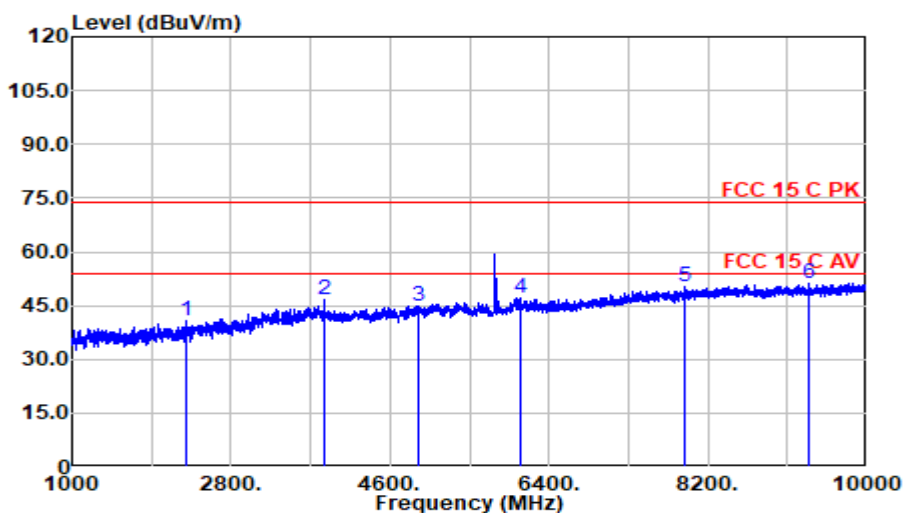
Mode: 802.11a CH5785MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
1886.500	45.92	27.19	4.88	36.50	41.50	74.00	32.50	Peak
3196.000	43.84	31.08	6.06	35.31	45.68	74.00	28.32	Peak
4921.750	38.20	33.37	7.74	34.63	44.68	74.00	29.32	Peak
6280.750	38.23	34.70	8.67	34.60	47.00	74.00	27.00	Peak
8047.000	38.20	37.20	10.33	34.89	50.83	74.00	23.17	Peak
9716.500	37.31	38.10	11.23	34.63	52.00	74.00	22.00	Peak
11570.000	34.50	39.31	12.07	34.14	51.74	74.00	22.26	Peak
17355.000	31.32	44.69	15.33	32.39	58.95	74.00	15.05	Peak
17355.000	18.53	44.69	15.33	32.39	46.16	54.00	7.84	Average

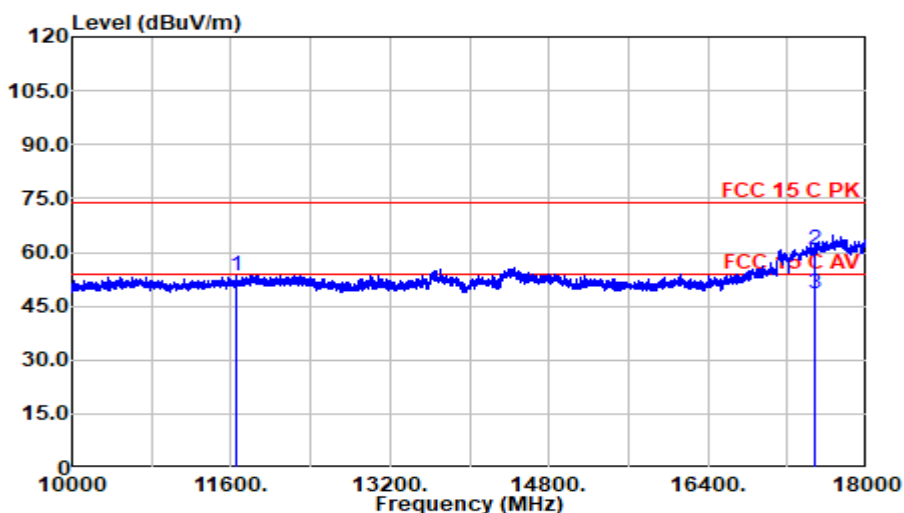
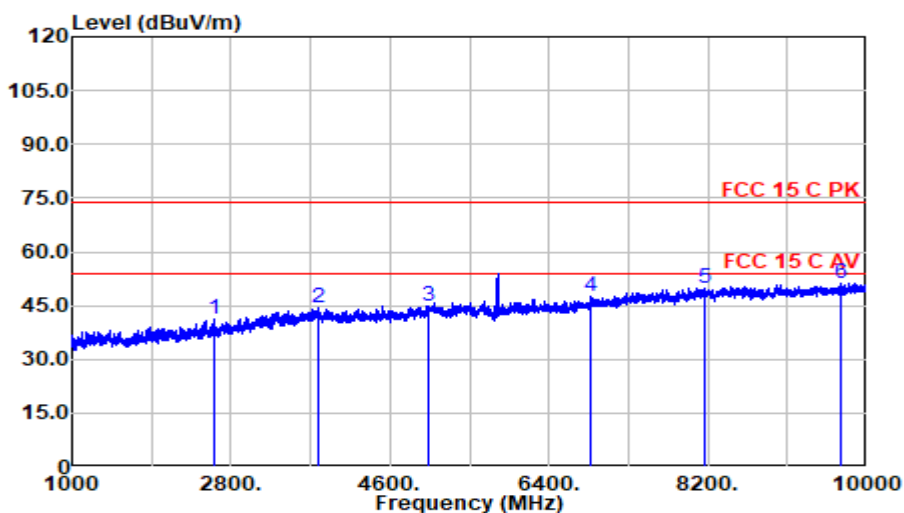
Mode: 802.11a CH5785MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2300.500	43.61	28.00	5.31	36.12	40.80	74.00	33.20	Peak
3857.500	42.31	32.53	6.64	35.05	46.43	74.00	27.57	Peak
4933.000	38.43	33.30	7.75	34.62	44.85	74.00	29.15	Peak
6073.750	38.84	34.45	8.49	34.60	47.18	74.00	26.82	Peak
7943.500	37.64	37.31	10.25	34.88	50.32	74.00	23.68	Peak
9334.000	36.70	38.03	10.91	34.67	50.98	74.00	23.02	Peak
11570.000	35.24	39.31	12.07	34.14	52.49	74.00	21.51	Peak
17356.000	31.07	44.69	15.33	32.39	58.70	74.00	15.30	Peak
17356.000	18.31	44.69	15.33	32.39	45.94	54.00	8.06	Average

Mode: 802.11a CH5825MHz

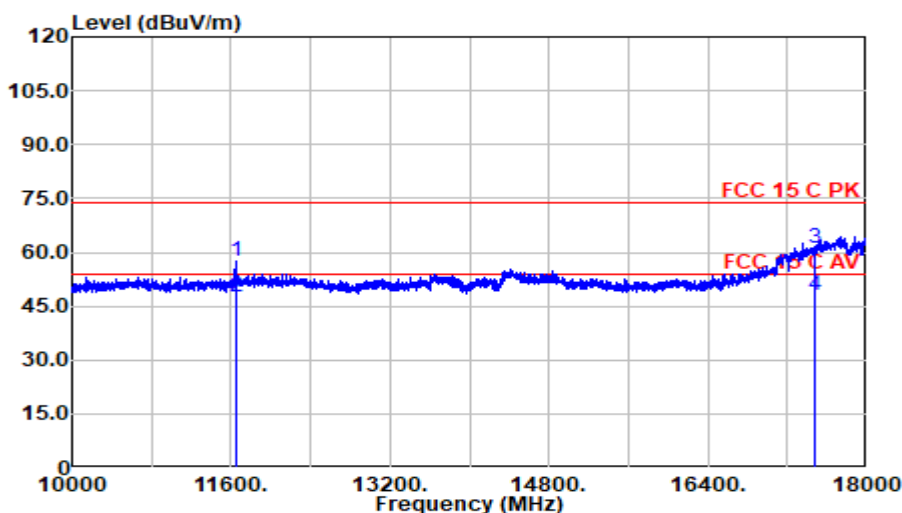
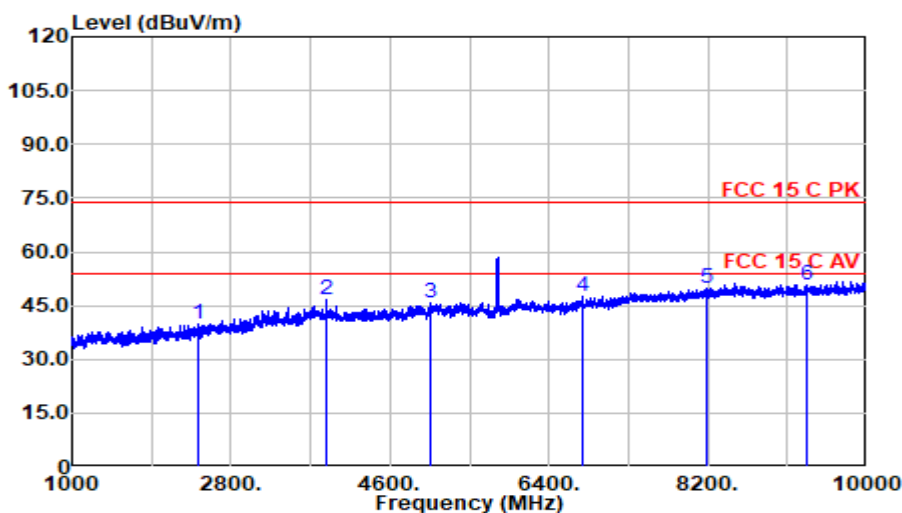


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2602.000	42.30	29.09	5.57	35.79	41.18	74.00	32.82	Peak
3792.250	40.37	32.45	6.59	35.07	44.34	74.00	29.66	Peak
5045.500	38.28	33.49	7.84	34.60	45.01	74.00	28.99	Peak
6879.250	37.36	35.46	9.16	34.60	47.37	74.00	26.63	Peak
8170.750	36.75	37.58	10.37	34.86	49.84	74.00	24.16	Peak
9709.750	36.53	38.10	11.22	34.63	51.22	74.00	22.78	Peak
11650.000	36.15	39.50	12.13	34.13	53.65	74.00	20.35	Peak
17476.000	31.93	45.53	15.51	32.36	60.62	74.00	13.38	Peak
17476.000	19.69	45.53	15.51	32.36	48.39	54.00	5.61	Average



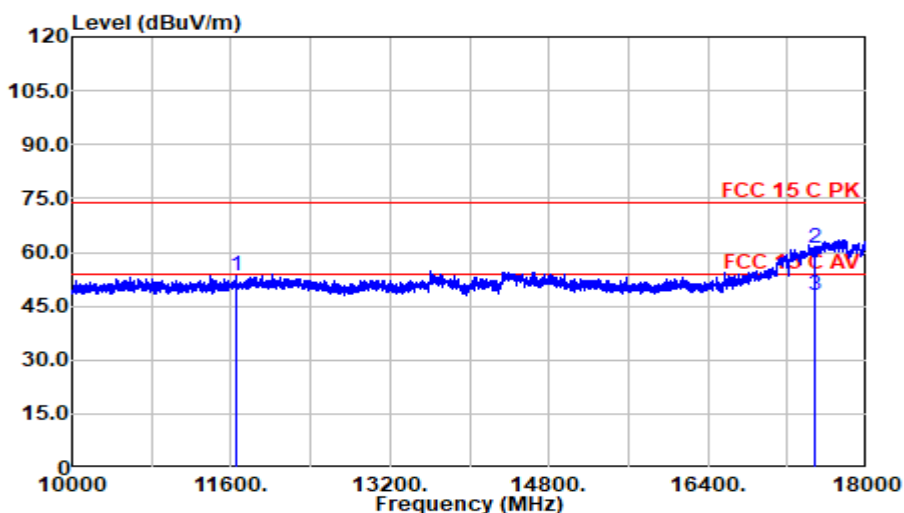
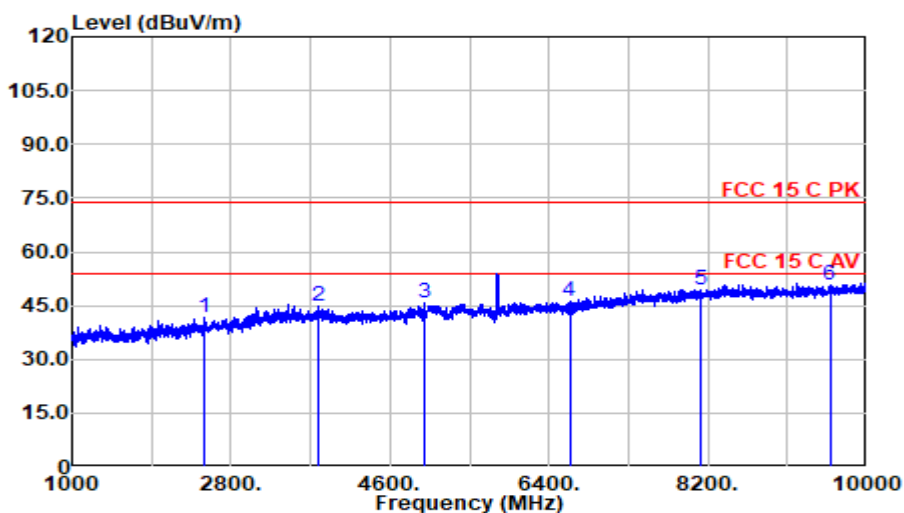
Mode: 802.11a CH5825MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2433.250	42.00	28.53	5.43	35.97	39.99	74.00	34.01	Peak
3884.500	42.59	32.64	6.66	35.04	46.85	74.00	27.15	Peak
5065.750	38.81	33.53	7.85	34.60	45.60	74.00	28.40	Peak
6771.250	37.73	35.36	9.07	34.60	47.56	74.00	26.44	Peak
8191.000	36.65	37.66	10.37	34.86	49.82	74.00	24.18	Peak
9327.250	36.60	38.05	10.91	34.67	50.89	74.00	23.11	Peak
11650.000	40.20	39.50	12.13	34.13	57.71	74.00	16.29	Peak
11650.000	30.15	39.50	12.13	34.13	47.65	54.00	6.35	Average
17476.000	32.57	45.53	15.51	32.36	61.26	74.00	12.74	Peak
17476.000	19.36	45.53	15.51	32.36	48.05	54.00	5.95	Average

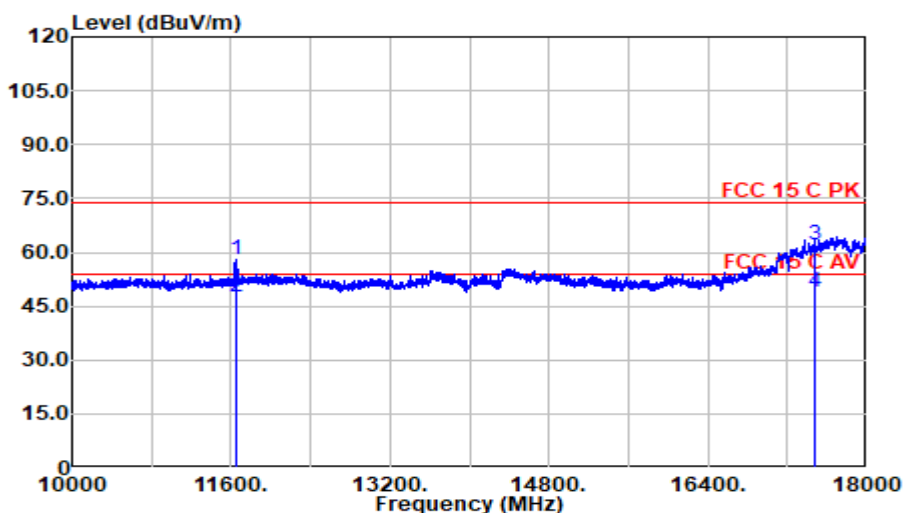
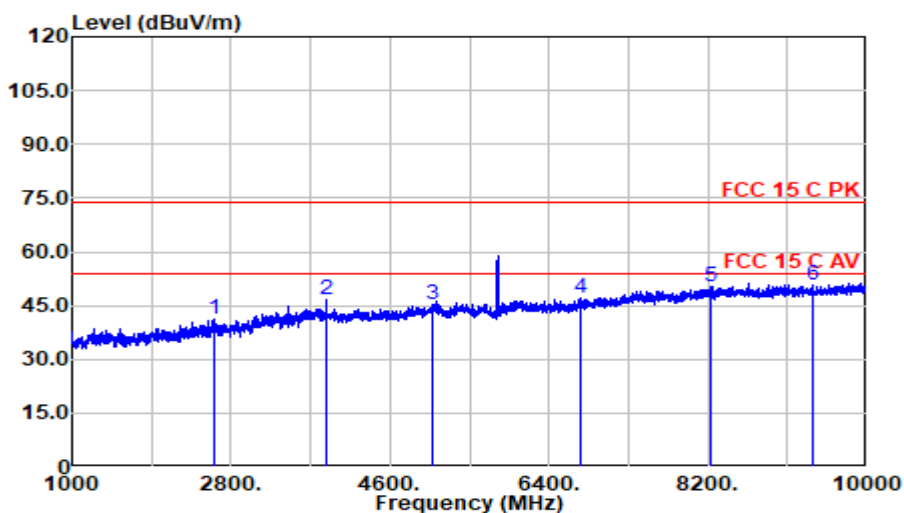
Mode: 802.11n20 CH5825MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2503.000	43.46	28.71	5.49	35.89	41.77	74.00	32.23	Peak
3787.750	40.68	32.43	6.58	35.08	44.62	74.00	29.38	Peak
4980.250	39.10	33.32	7.79	34.61	45.61	74.00	28.39	Peak
6634.000	37.13	34.87	8.96	34.60	46.36	74.00	27.64	Peak
8116.750	36.73	37.37	10.35	34.88	49.57	74.00	24.43	Peak
9581.500	36.18	38.20	11.12	34.64	50.85	74.00	23.15	Peak
11650.000	35.81	39.50	12.13	34.13	53.31	74.00	20.69	Peak
17476.000	32.64	45.53	15.51	32.36	61.33	74.00	12.67	Peak
17476.000	19.46	45.53	15.51	32.36	48.16	54.00	5.84	Average

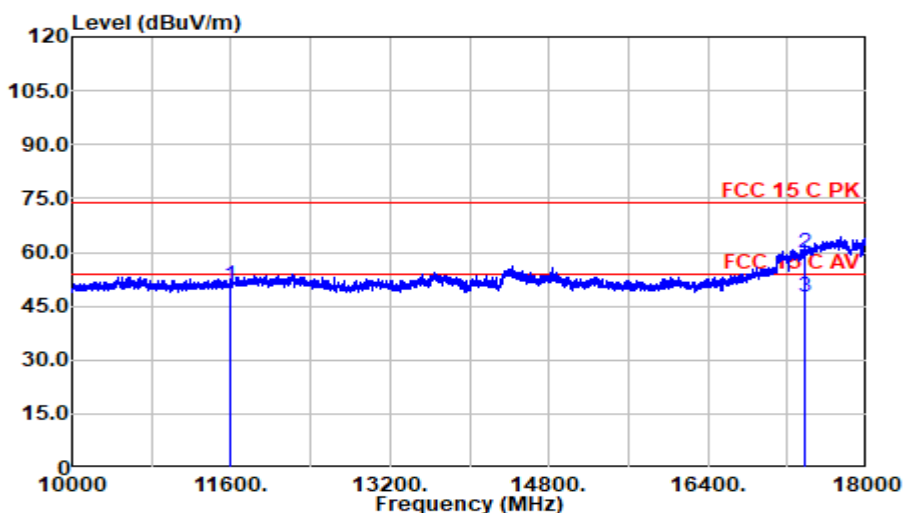
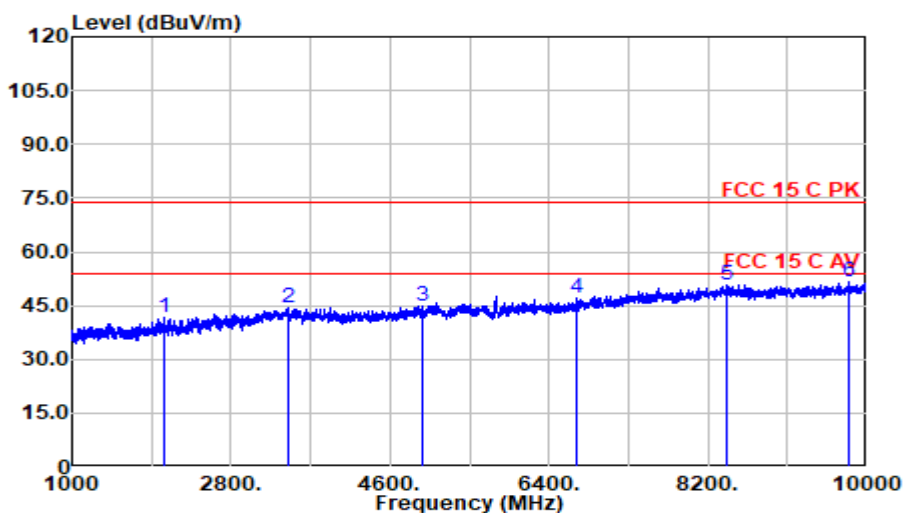
Mode: 802.11n20 CH5825MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2611.000	42.49	29.06	5.58	35.78	41.35	74.00	32.65	Peak
3884.500	42.48	32.64	6.66	35.04	46.74	74.00	27.26	Peak
5081.500	38.36	33.56	7.86	34.60	45.19	74.00	28.81	Peak
6764.500	37.14	35.37	9.07	34.60	46.98	74.00	27.02	Peak
8227.000	36.80	37.75	10.39	34.85	50.09	74.00	23.91	Peak
9390.250	36.42	38.16	10.96	34.66	50.88	74.00	23.12	Peak
11648.000	40.55	39.50	12.13	34.13	58.05	74.00	15.95	Peak
11648.000	29.98	39.50	12.13	34.13	47.48	54.00	6.52	Average
17476.000	33.55	45.53	15.51	32.36	62.24	74.00	11.76	Peak
17476.000	20.36	45.53	15.51	32.36	49.05	54.00	4.95	Average

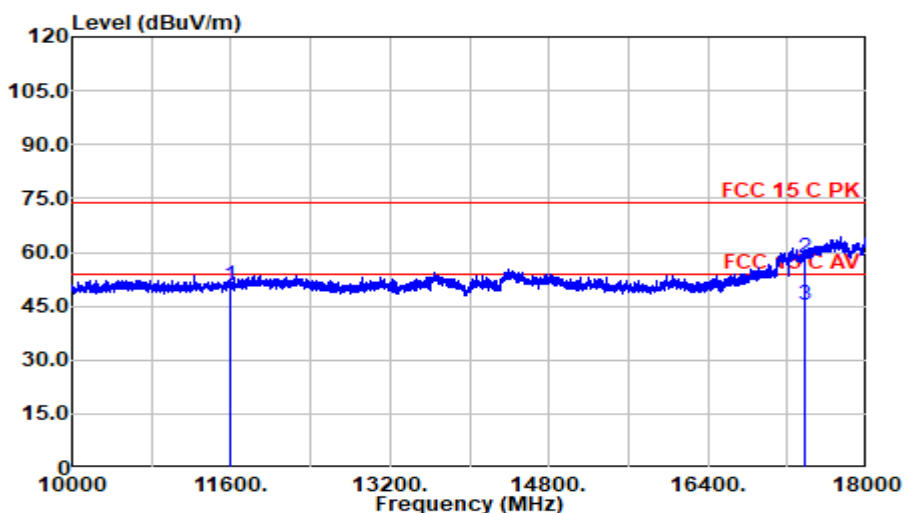
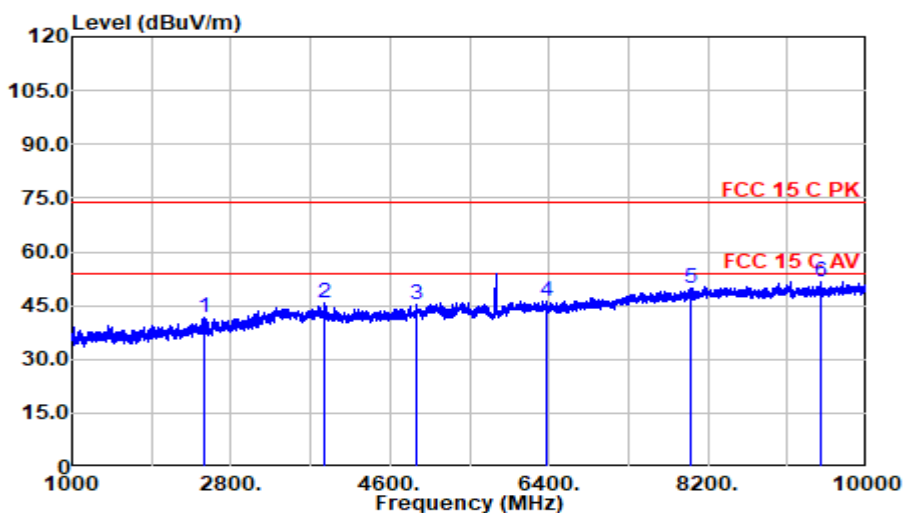
Mode: 802.11n40 CH5795MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2037.250	45.51	27.65	5.05	36.45	41.76	74.00	32.24	Peak
3452.500	41.69	31.51	6.30	35.20	44.29	74.00	29.71	Peak
4960.000	38.55	33.24	7.77	34.61	44.95	74.00	29.05	Peak
6706.000	37.80	35.05	9.02	34.60	47.26	74.00	26.74	Peak
8409.250	37.18	38.12	10.45	34.82	50.93	74.00	23.07	Peak
9795.250	37.01	38.10	11.29	34.62	51.78	74.00	22.22	Peak
11590.000	33.47	39.37	12.09	34.14	50.79	74.00	23.21	Peak
17384.000	32.06	44.89	15.38	32.38	59.94	74.00	14.06	Peak
17384.000	19.51	44.89	15.38	32.38	47.39	54.00	6.61	Average

Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
2507.500	43.37	28.73	5.49	35.89	41.70	74.00	32.30	Peak
3864.250	41.74	32.56	6.64	35.05	45.90	74.00	28.10	Peak
4890.250	38.70	33.44	7.70	34.64	45.21	74.00	28.79	Peak
6373.000	37.39	34.61	8.74	34.60	46.14	74.00	27.86	Peak
8011.000	37.17	37.20	10.31	34.90	49.79	74.00	24.21	Peak
9480.250	36.99	38.32	11.03	34.65	51.69	74.00	22.31	Peak
11590.000	33.53	39.37	12.09	34.14	50.84	74.00	23.16	Peak
17385.000	30.74	44.90	15.38	32.38	58.63	74.00	15.37	Peak
17385.000	17.47	44.90	15.38	32.38	45.36	54.00	8.64	Average

## 5 BAND EDGE MEASUREMENT

### 5.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	HP	8447D	2944A10548	2023.02.22	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
3.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
4.	Horn Antenna	EMCO	3116	00062643	2023.01.30	1 Year
5.	Software	Audix	e3	v9.210616	--	--

### 5.2 Block Diagram of Test Setup

The Same as Section. 4.2.3.

### 5.3 Specification Limit

Only spurious emissions are permitted in any of the frequency bands which fall in Restricted bands as defined in §15.205(a), the field strength of emission shall not exceed the limits shown in §15.209:

Frequency (MHz)	Distance (m)	Field strength limits (nV/m)	
		(nV/m)	dB(nV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB (nV/m) = 20 log Emission Level (nV/m)  
 NOTE 2 - The tighter limit applies at the band edges.  
 NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.  
 NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.  
 NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) 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.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

#### 5.4 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Agilent N9010A was set at 1MHz.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,  
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

All the test results are listed in Sec.5.5.

## 5.5 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

### Band Edge & Restricted Band:

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P58-59
			48	5240 MHz	P60-61
2.			52	5260 MHz	P62-63
			64	5320 MHz	P64-65
3.			100	5500 MHz	P66-67
			140	5700 MHz	P68-69
4.			149	5745 MHz	P70-73
			165	5825 MHz	P74-77
5.		802.11n20	36	5180 MHz	P78-79
			48	5240 MHz	P80-81
6.			52	5260 MHz	P82-83
			64	5320 MHz	P84-85
7.	100		5500 MHz	P86-87	
	140		5700 MHz	P88-89	
8.	149		5745 MHz	P90-93	
	165		5825 MHz	P94-97	
9.	802.11n40	38	5190 MHz	P98-99	
		46	5230 MHz	P100-101	
10.		54	5270 MHz	P102-103	
		62	5310 MHz	P104-105	
11.		102	5510 MHz	P106-107	
		134	5670 MHz	P108-109	
12.		151	5755 MHz	P110-113	
		159	5795 MHz	P114-117	

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Standing direction, for this direction was the maximum emission direction during the test. The data of Side & Lying direction are too low against the official limit to be reported.

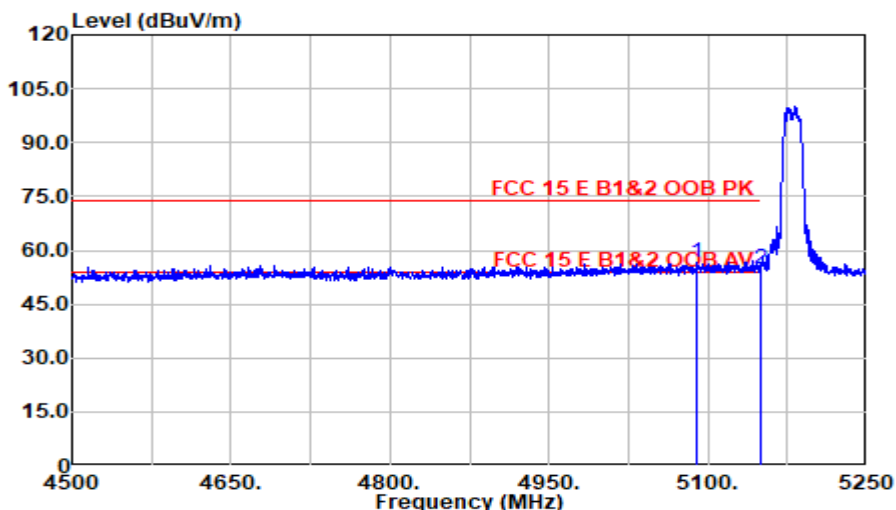


- NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.  
For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- NOTE 7 – The frequency range 4500MHz-5150MHz & 5350MHz-5460MHz & 7250MHz-7750MHz were tested for Restricted bands.

### Band-Edge & Restricted Bands:

Test Date:	2023.11.05-12.10	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
------------	------------------	-------------	------------	----------	-------

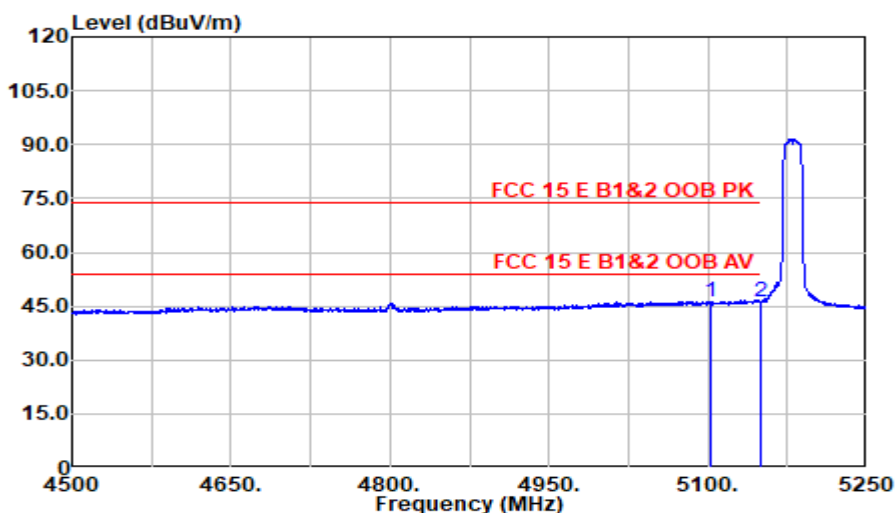
Mode: 802.11a CH5180MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5089.125	49.80	33.58	7.87	34.60	56.64	74.00	17.36	Peak
5150.000	47.49	34.00	7.91	34.60	54.80	74.00	19.20	Peak

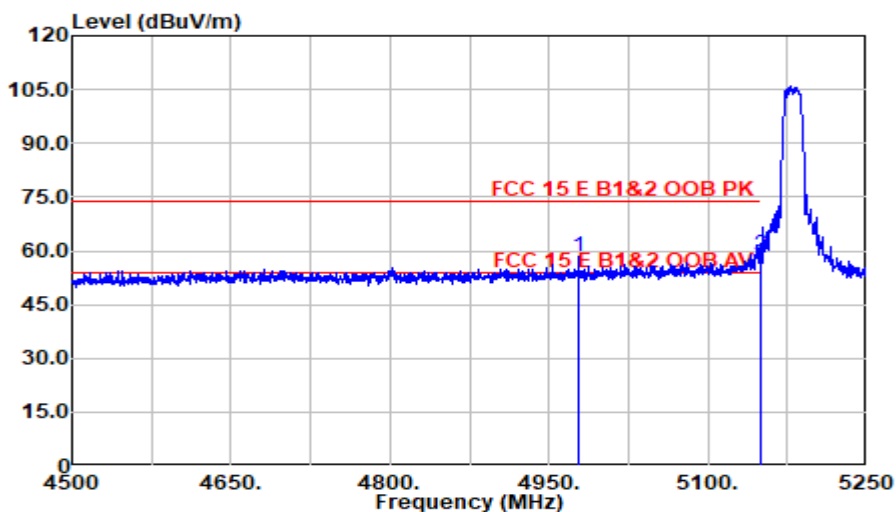
Mode: 802.11a CH5180MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5103.000	39.46	33.62	7.88	34.60	46.36	54.00	7.64	Average
5150.000	38.98	34.00	7.91	34.60	46.29	54.00	7.71	Average

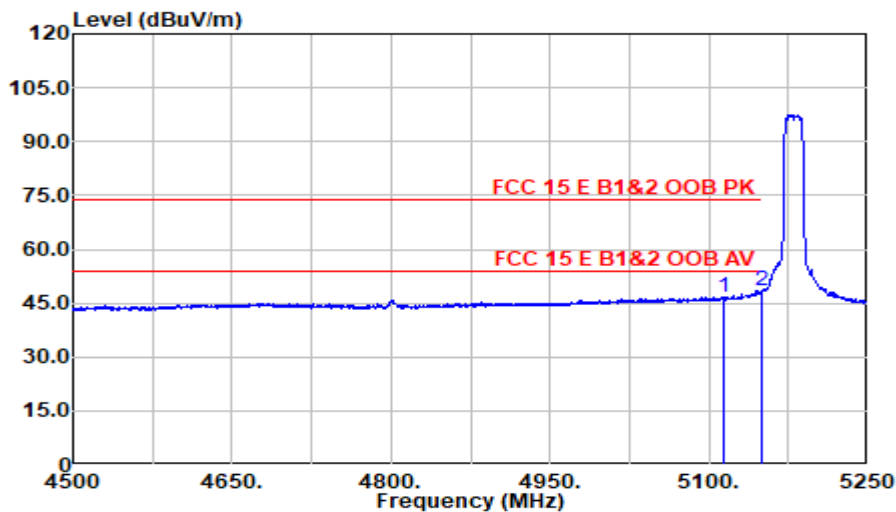
**Mode: 802.11a CH5180MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
4977.750	52.05	33.31	7.79	34.61	58.54	74.00	15.46	Peak
5150.000	51.47	34.00	7.91	34.60	58.78	74.00	15.22	Peak

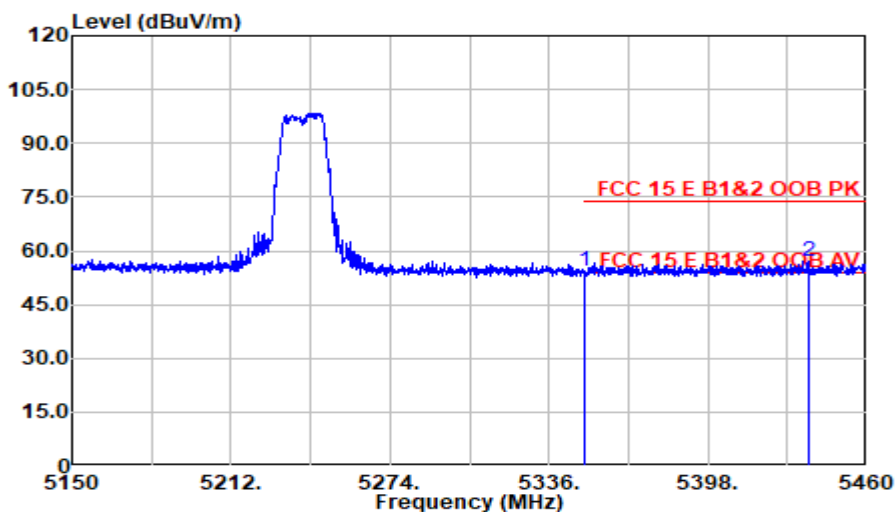
**Mode: 802.11a CH5180MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5113.500	39.57	33.71	7.89	34.60	46.57	54.00	7.43	Average
5150.000	41.12	34.00	7.91	34.60	48.43	54.00	5.57	Average

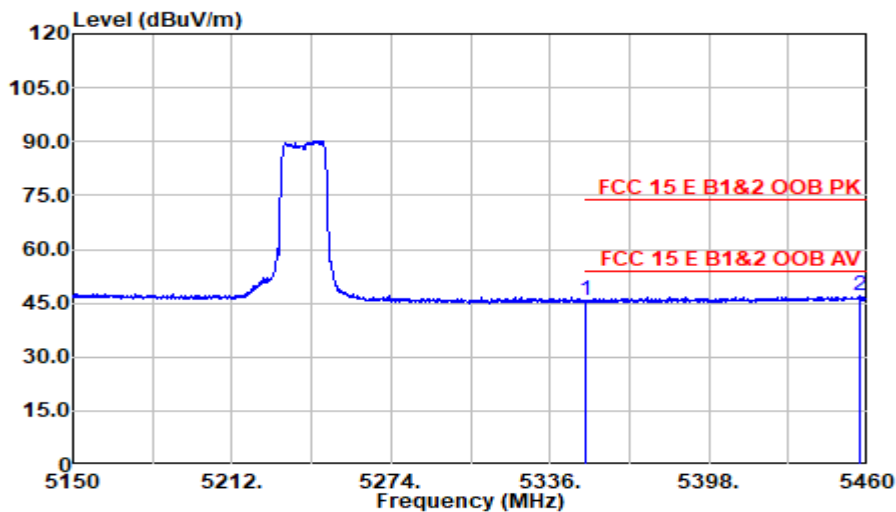
**Mode: 802.11a CH5240MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.58	34.10	8.04	34.60	54.12	74.00	19.88	Peak
5437.060	49.29	34.15	8.09	34.60	56.93	74.00	17.07	Peak

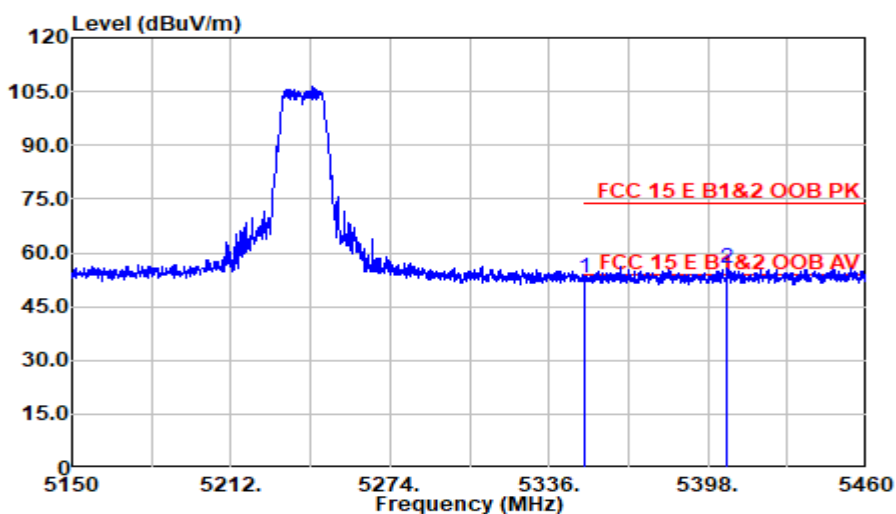
**Mode: 802.11a CH5240MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	38.37	34.10	8.04	34.60	45.90	54.00	8.10	Average
5456.590	39.22	34.20	8.10	34.60	46.92	54.00	7.08	Average

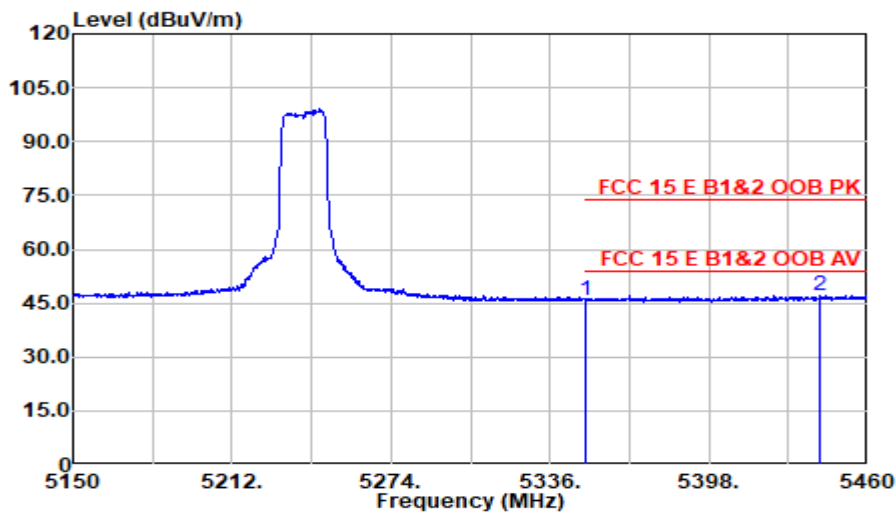
Mode: 802.11a CH5240MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	45.55	34.10	8.04	34.60	53.09	74.00	20.91	Peak
5405.440	48.04	34.02	8.07	34.60	55.54	74.00	18.46	Peak

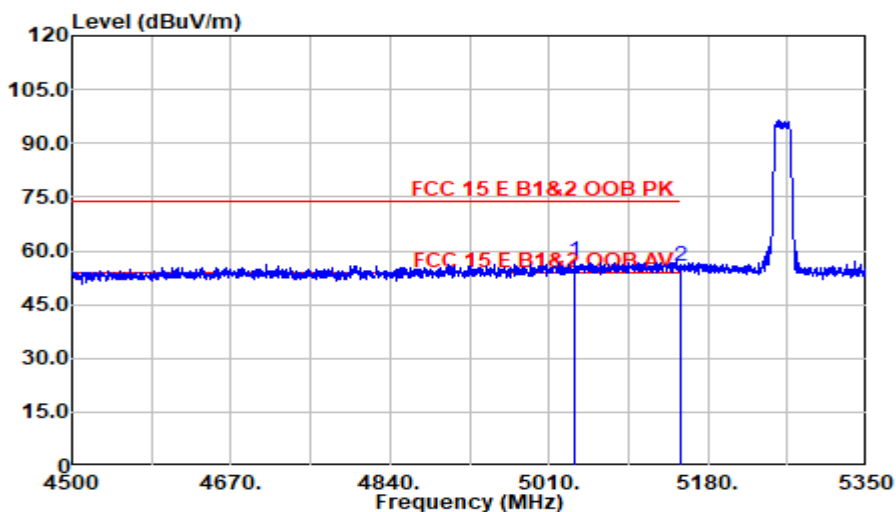
Mode: 802.11a CH5240MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	38.32	34.10	8.04	34.60	45.86	54.00	8.14	Average
5441.400	39.34	34.17	8.09	34.60	47.00	54.00	7.00	Average

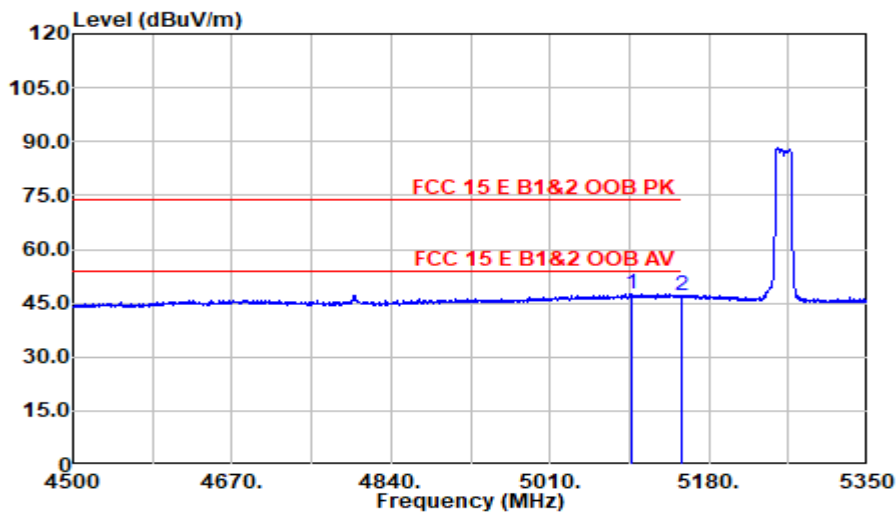
Mode: 802.11a CH5260MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5037.200	50.56	33.47	7.83	34.60	57.27	74.00	16.73	Peak
5150.000	48.33	34.00	7.91	34.60	55.64	74.00	18.36	Peak

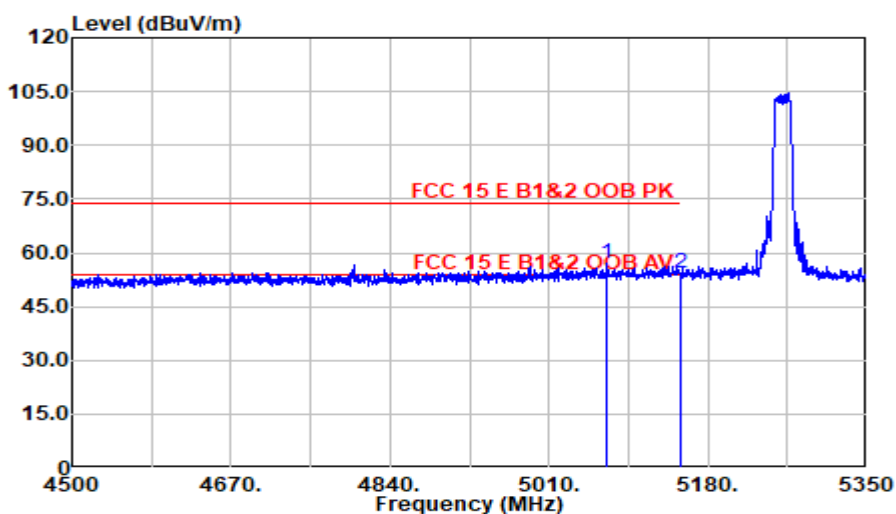
Mode: 802.11a CH5260MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5097.975	40.86	33.60	7.87	34.60	47.73	54.00	6.27	Average
5150.000	39.76	34.00	7.91	34.60	47.07	54.00	6.93	Average

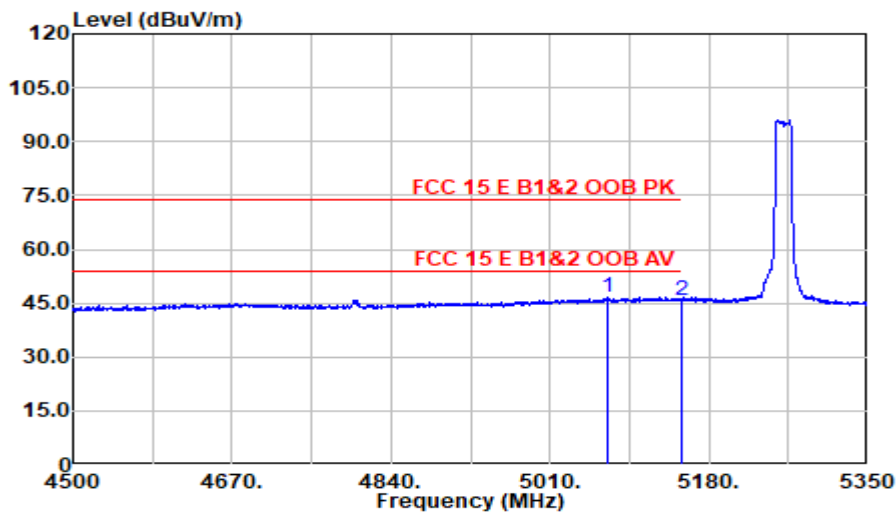
**Mode: 802.11a CH5260MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5072.050	50.05	33.54	7.86	34.60	56.85	74.00	17.15	Peak
5150.000	47.17	34.00	7.91	34.60	54.48	74.00	19.52	Peak

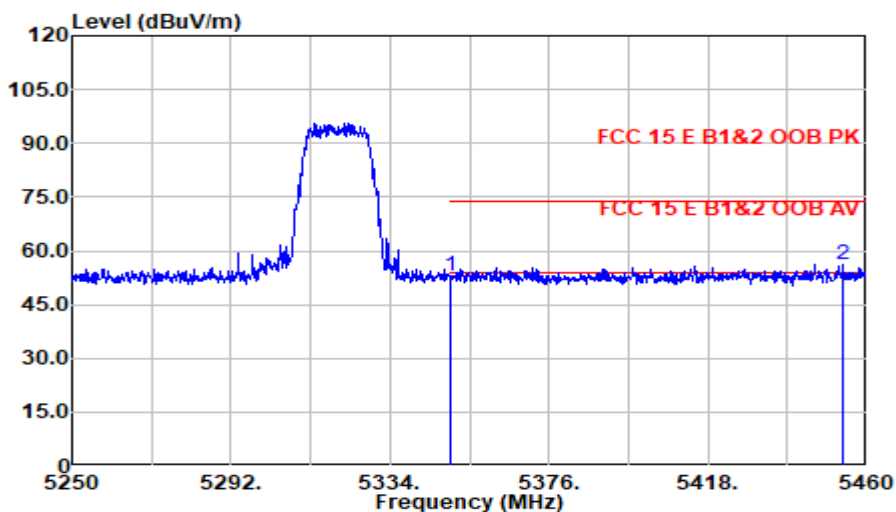
**Mode: 802.11a CH5260MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5072.050	39.72	33.54	7.86	34.60	46.52	54.00	7.48	Average
5150.000	38.61	34.00	7.91	34.60	45.92	54.00	8.08	Average

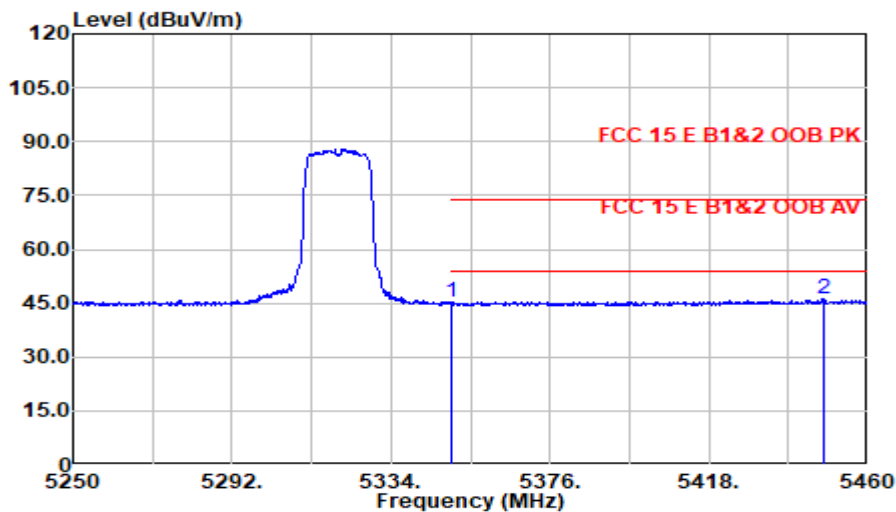
**Mode: 802.11a CH5320MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	45.40	34.10	8.04	34.60	52.94	74.00	21.06	Peak
5453.800	48.67	34.20	8.10	34.60	56.37	74.00	17.63	Peak

**Mode: 802.11a CH5320MHz**

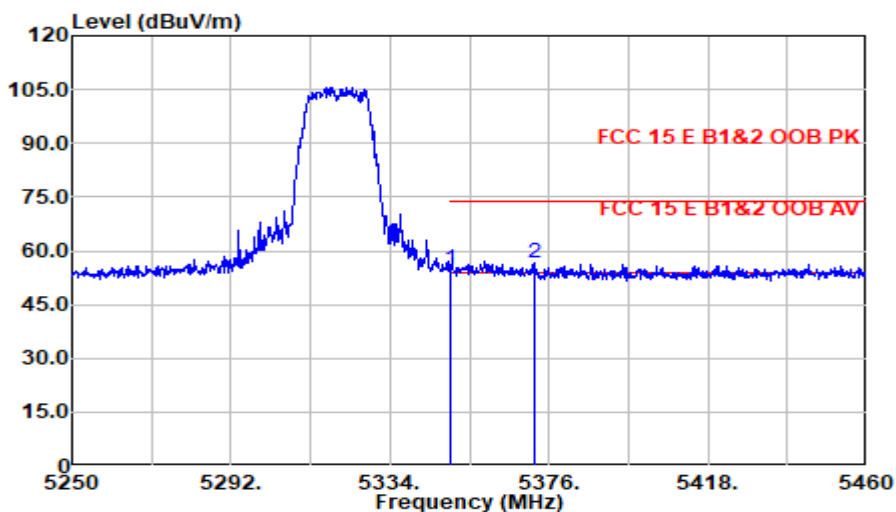


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	37.77	34.10	8.04	34.60	45.31	54.00	8.69	Average
5448.220	38.45	34.19	8.10	34.60	46.14	54.00	7.86	Average



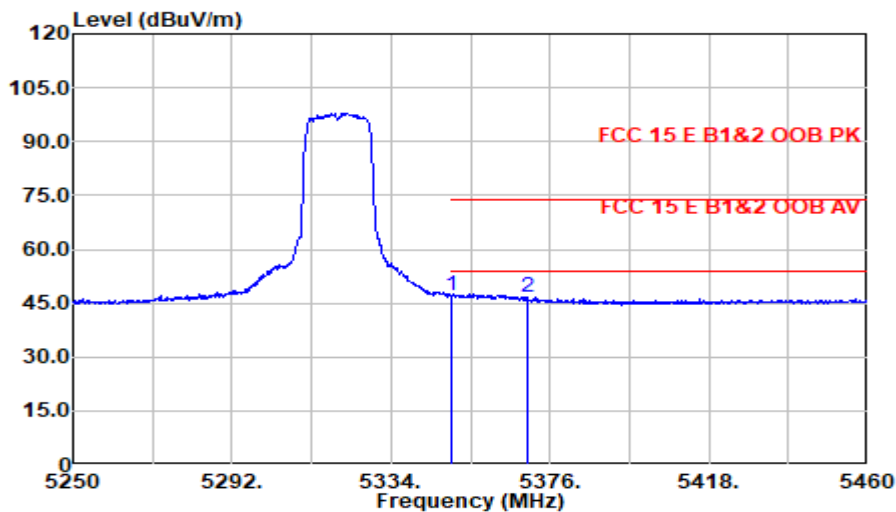
Mode: 802.11a CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	47.23	34.10	8.04	34.60	54.76	74.00	19.24	Peak
5371.960	49.13	34.06	8.05	34.60	56.64	74.00	17.36	Peak

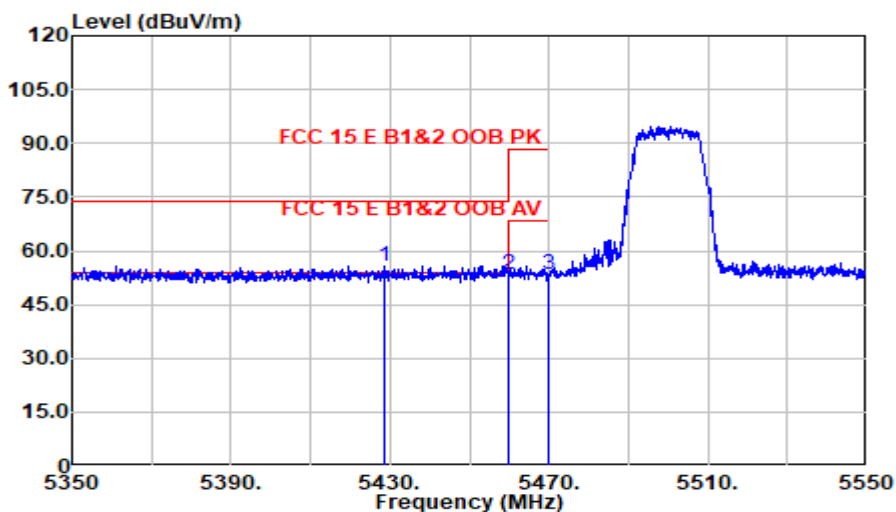
Mode: 802.11a CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	39.54	34.10	8.04	34.60	47.08	54.00	6.92	Average
5370.100	39.12	34.06	8.05	34.60	46.62	54.00	7.38	Average

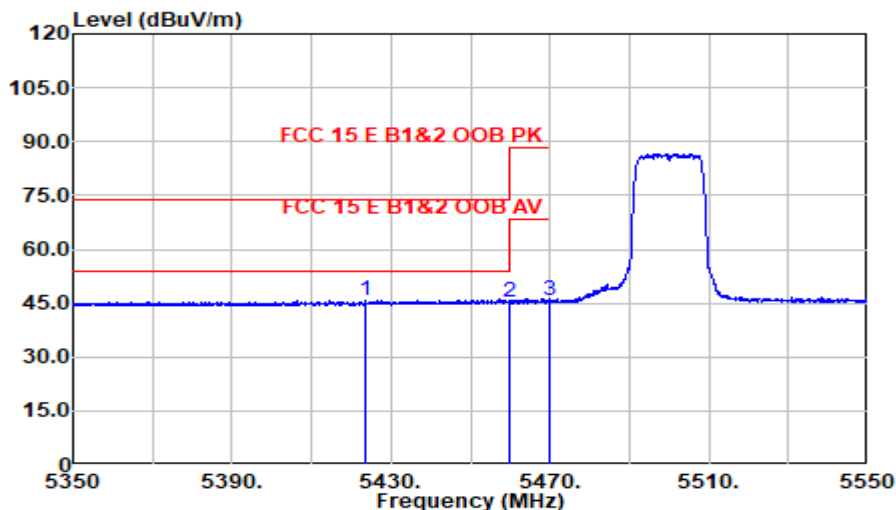
**Mode: 802.11a CH5500MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5428.400	48.13	34.11	8.09	34.60	55.73	74.00	18.27	Peak
5460.000	45.63	34.20	8.10	34.60	53.34	74.00	20.66	Peak
5470.000	45.76	34.20	8.11	34.60	53.47	88.20	34.73	Peak

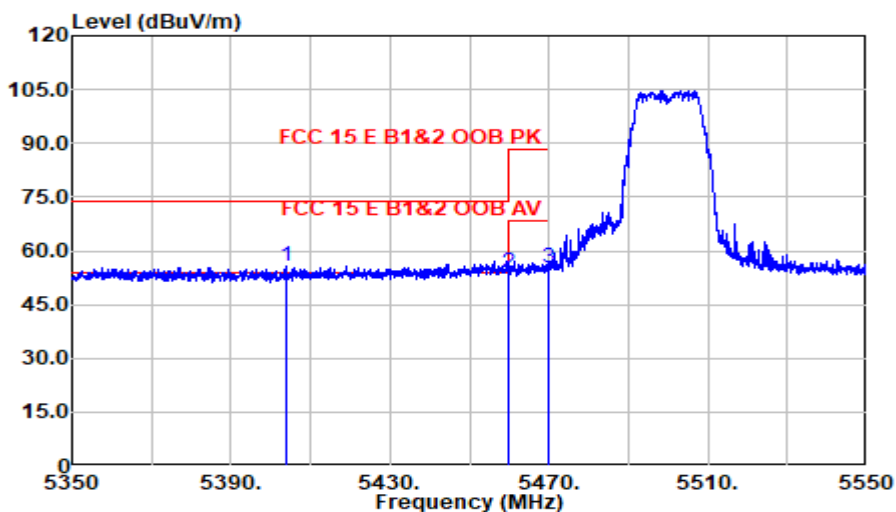
**Mode: 802.11a CH5500MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5423.600	38.22	34.09	8.08	34.60	45.79	54.00	8.21	Average
5460.000	37.68	34.20	8.10	34.60	45.39	54.00	8.61	Average
5470.000	37.95	34.20	8.11	34.60	45.66	68.20	22.54	Average

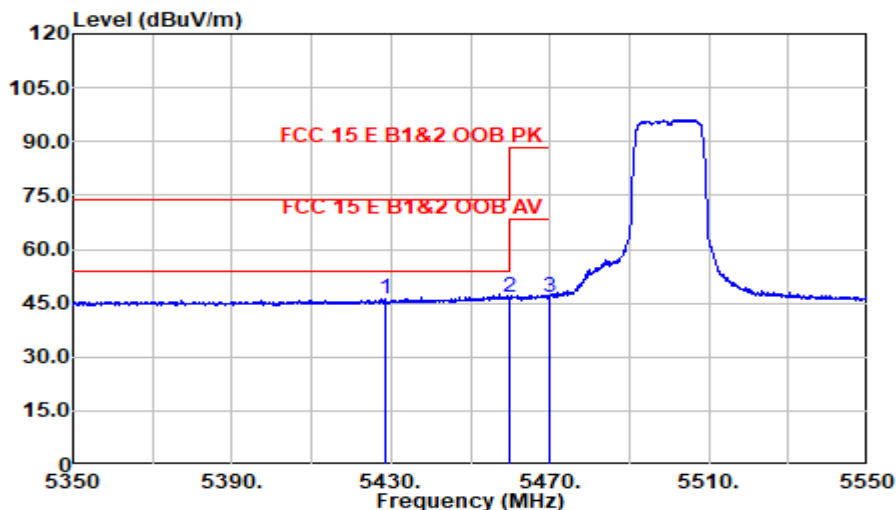
**Mode: 802.11a CH5500MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5404.000	48.20	34.02	8.07	34.60	55.68	74.00	18.32	Peak
5460.000	46.37	34.20	8.10	34.60	54.07	74.00	19.93	Peak
5470.000	47.65	34.20	8.11	34.60	55.36	88.20	32.84	Peak

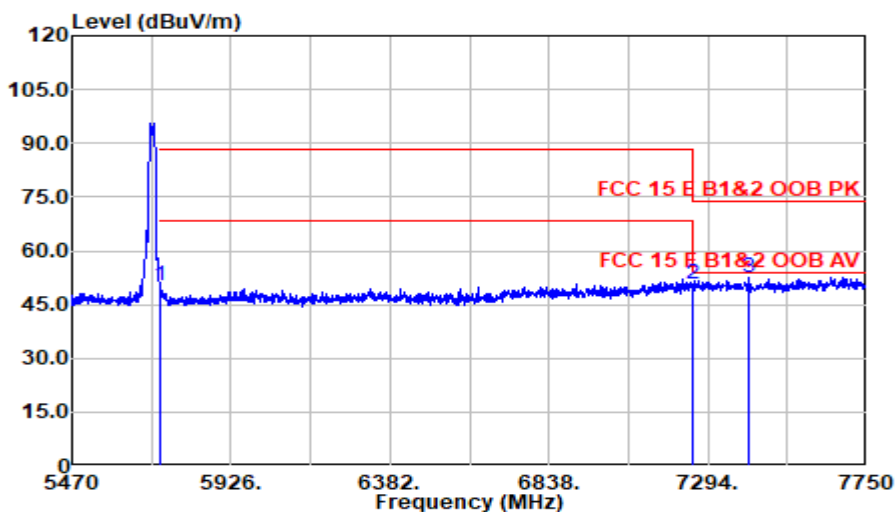
**Mode: 802.11a CH5500MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5428.600	38.79	34.11	8.09	34.60	46.39	54.00	7.61	Average
5460.000	38.72	34.20	8.10	34.60	46.43	54.00	7.57	Average
5470.000	39.13	34.20	8.11	34.60	46.84	68.20	21.36	Average

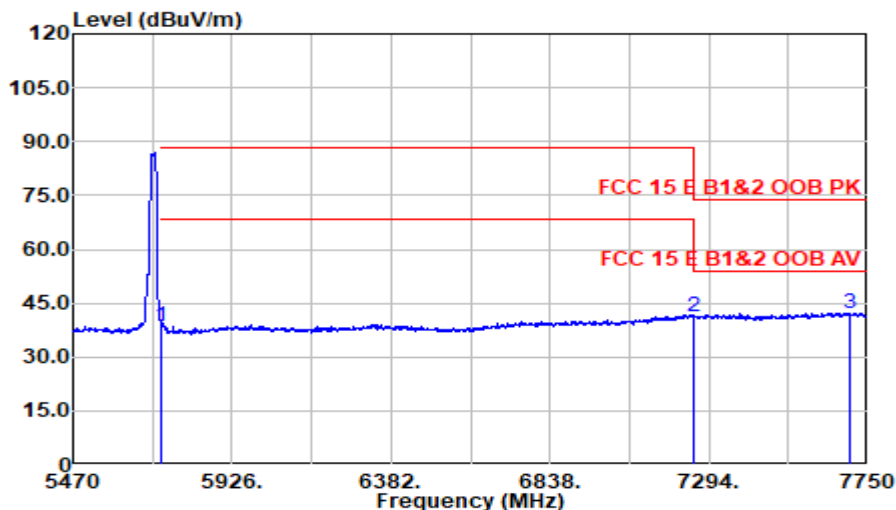
**Mode: 802.11a CH5700MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	42.86	33.80	8.26	34.60	50.32	88.20	37.88	Peak
7250.000	39.18	36.60	9.53	34.68	50.63	74.00	23.37	Peak
7413.700	40.83	36.90	9.71	34.73	52.71	74.00	21.29	Peak

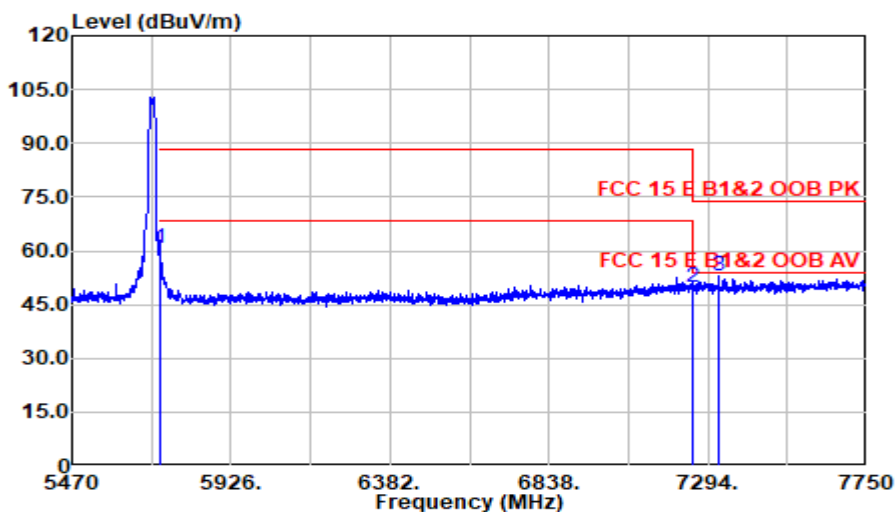
**Mode: 802.11a CH5700MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	30.86	33.80	8.26	34.60	38.33	68.20	29.87	Average
7250.000	29.62	36.60	9.53	34.68	41.07	54.00	12.93	Average
7698.700	30.34	36.80	10.01	34.81	42.33	54.00	11.67	Average

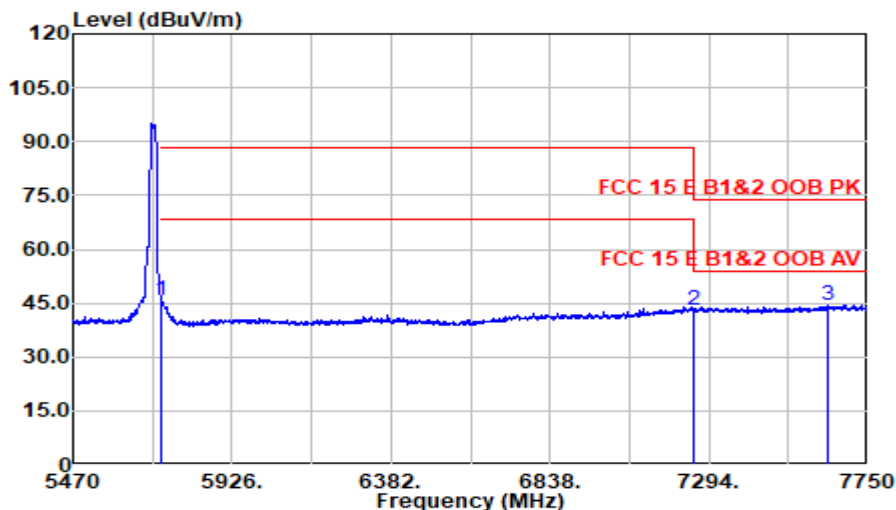
**Mode: 802.11a CH5700MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	53.31	33.80	8.26	34.60	60.77	88.20	27.43	Peak
7250.000	38.23	36.60	9.53	34.68	49.68	74.00	24.32	Peak
7323.640	41.33	36.74	9.61	34.70	52.98	74.00	21.02	Peak

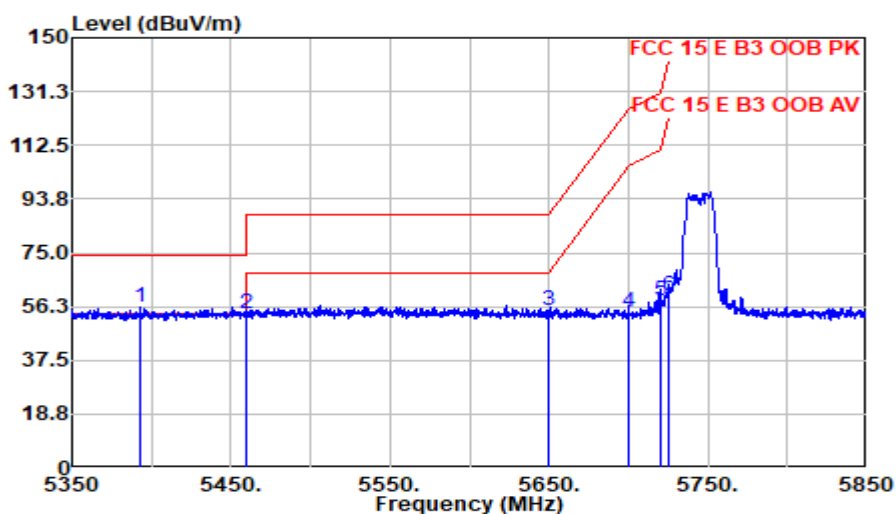
**Mode: 802.11a CH5700MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	38.26	33.80	8.26	34.60	45.72	68.20	22.48	Average
7250.000	31.63	36.60	9.53	34.68	43.08	54.00	10.92	Average
7633.720	32.69	36.77	9.94	34.79	44.60	54.00	9.40	Average

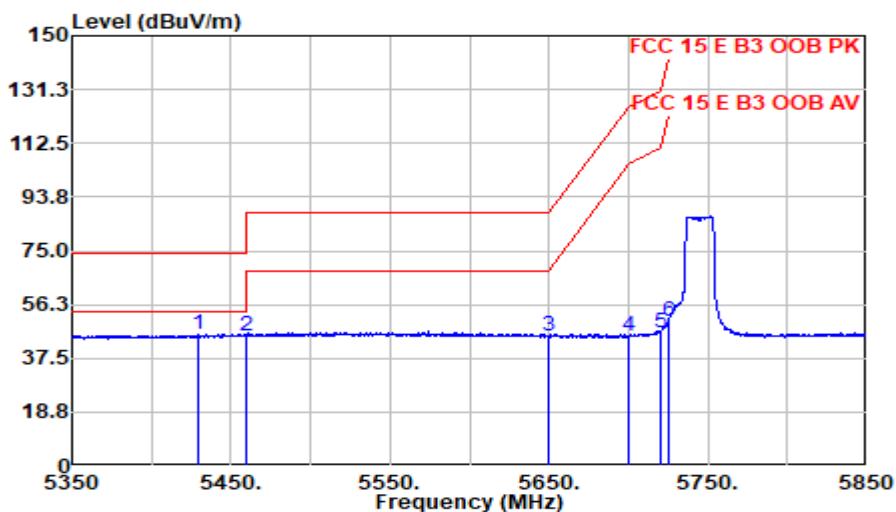
Mode: 802.11a CH5725MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5393.000	48.57	34.01	8.06	34.60	56.05	74.00	17.95	Peak
5460.000	45.79	34.20	8.10	34.60	53.50	74.00	20.50	Peak
5650.000	47.23	33.90	8.22	34.60	54.75	88.20	33.45	Peak
5700.000	46.72	33.80	8.25	34.60	54.17	125.20	71.03	Peak
5720.000	50.68	33.80	8.26	34.60	58.14	130.80	72.66	Peak
5725.000	52.74	33.80	8.26	34.60	60.21	142.20	81.99	Peak

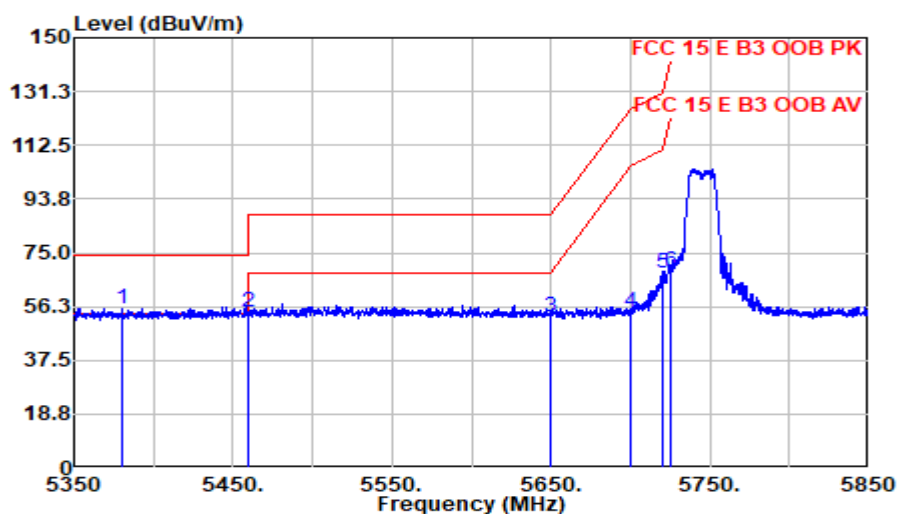
**Mode: 802.11a CH5725MHz**



**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5429.250	38.23	34.12	8.09	34.60	45.83	54.00	8.17	Average
5460.000	37.58	34.20	8.10	34.60	45.28	54.00	8.72	Average
5650.000	37.92	33.90	8.22	34.60	45.44	68.20	22.76	Average
5700.000	37.75	33.80	8.25	34.60	45.19	105.20	60.01	Average
5720.000	39.17	33.80	8.26	34.60	46.63	110.80	64.17	Average
5725.000	43.16	33.80	8.26	34.60	50.63	122.20	71.57	Average

Mode: 802.11a CH5725MHz

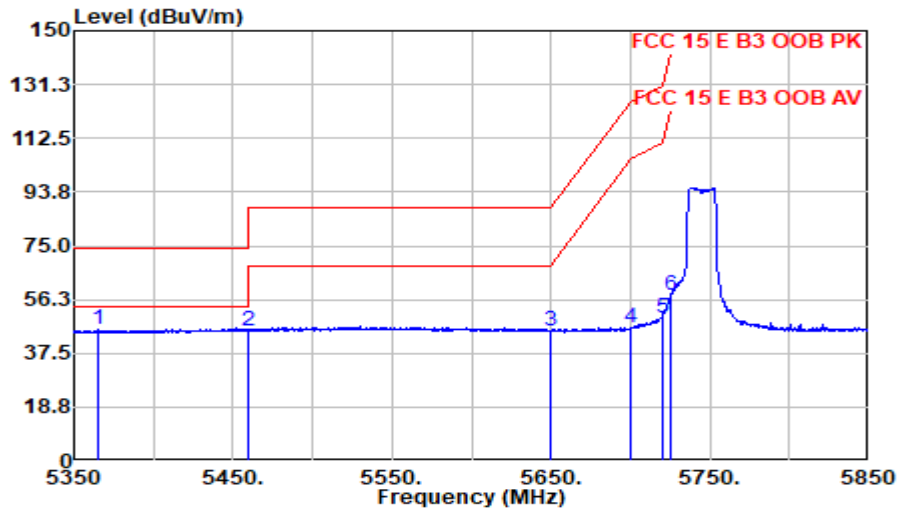


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5380.500	48.14	34.04	8.06	34.60	55.63	74.00	18.37	Peak
5460.000	46.65	34.20	8.10	34.60	54.35	74.00	19.65	Peak
5650.000	45.34	33.90	8.22	34.60	52.86	88.20	35.34	Peak
5700.000	47.02	33.80	8.25	34.60	54.46	125.20	70.74	Peak
5720.000	60.20	33.80	8.26	34.60	67.66	130.80	63.14	Peak
5725.000	60.80	33.80	8.26	34.60	68.26	142.20	73.94	Peak



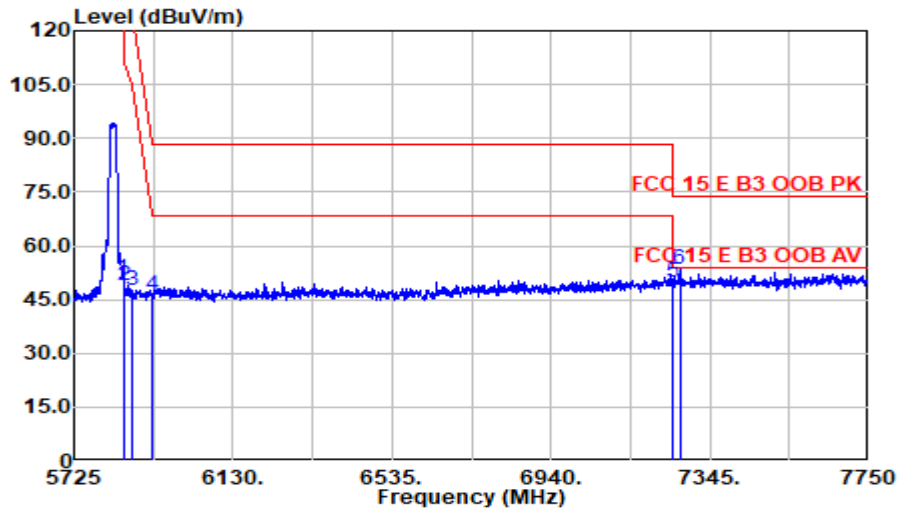
**Mode: 802.11a CH5725MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5365.500	38.33	34.07	8.05	34.60	45.85	54.00	8.15	Average
5460.000	37.73	34.20	8.10	34.60	45.43	54.00	8.57	Average
5650.000	37.94	33.90	8.22	34.60	45.46	68.20	22.74	Average
5700.000	38.81	33.80	8.25	34.60	46.26	105.20	58.94	Average
5720.000	42.50	33.80	8.26	34.60	49.96	110.80	60.84	Average
5725.000	50.02	33.80	8.26	34.60	57.48	122.20	64.72	Average

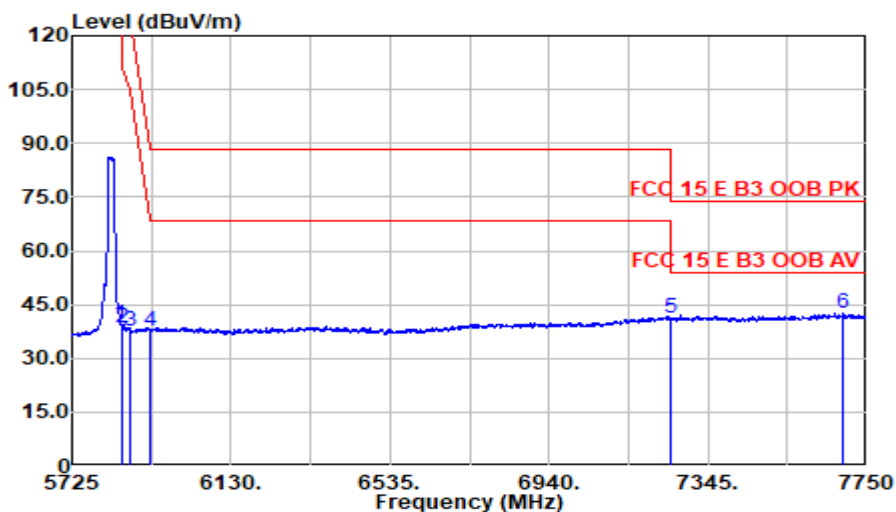
**Mode: 802.11a CH5825MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	43.29	33.80	8.34	34.60	50.82	142.20	91.38	Peak
5855.000	41.35	33.83	8.34	34.60	48.91	130.80	81.89	Peak
5875.000	39.73	33.95	8.35	34.60	47.43	125.20	77.77	Peak
5925.000	38.48	34.10	8.38	34.60	46.36	88.20	41.84	Peak
7250.000	38.35	36.60	9.53	34.68	49.80	74.00	24.20	Peak
7268.050	42.14	36.60	9.55	34.68	53.61	74.00	20.39	Peak

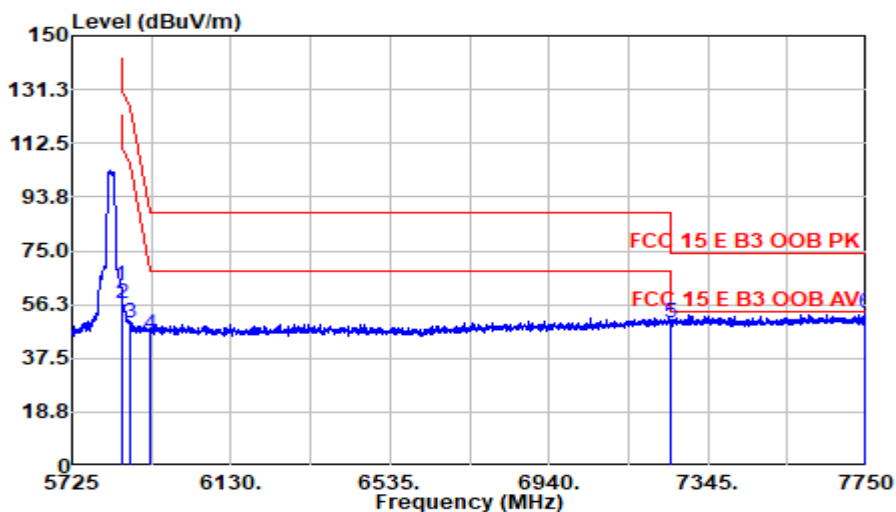
**Mode: 802.11a CH5825MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	31.68	33.80	8.34	34.60	39.22	122.20	82.98	Average
5855.000	30.75	33.83	8.34	34.60	38.32	110.80	72.48	Average
5875.000	29.93	33.95	8.35	34.60	37.63	105.20	67.57	Average
5925.000	29.65	34.10	8.38	34.60	37.52	68.20	30.68	Average
7250.000	29.74	36.60	9.53	34.68	41.19	54.00	12.81	Average
7690.263	30.42	36.80	10.00	34.81	42.41	54.00	11.59	Average

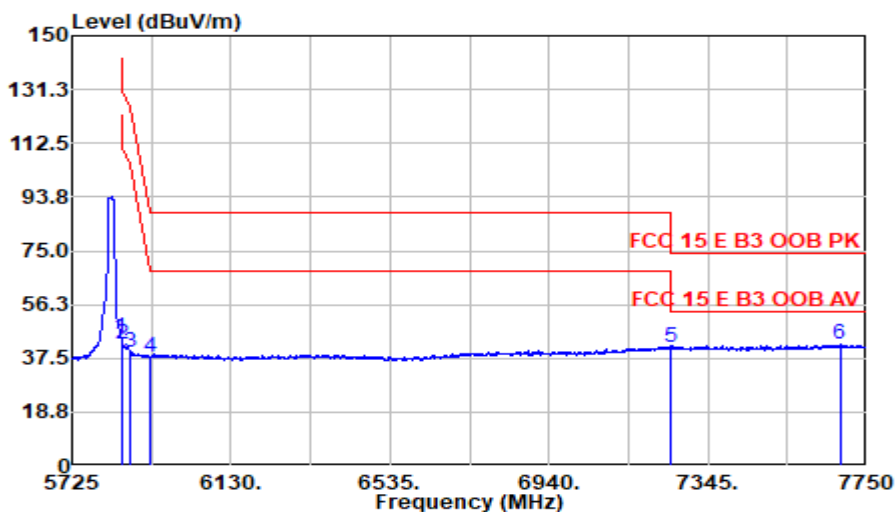
Mode: 802.11a CH5825MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	55.53	33.80	8.34	34.60	63.06	142.20	79.14	Peak
5855.000	49.28	33.83	8.34	34.60	56.84	130.80	73.96	Peak
5875.000	41.99	33.95	8.35	34.60	49.69	125.20	75.51	Peak
5925.000	37.98	34.10	8.38	34.60	45.86	88.20	42.34	Peak
7250.000	38.43	36.60	9.53	34.68	49.88	74.00	24.12	Peak
7742.913	41.09	36.89	10.05	34.83	53.20	74.00	20.80	Peak

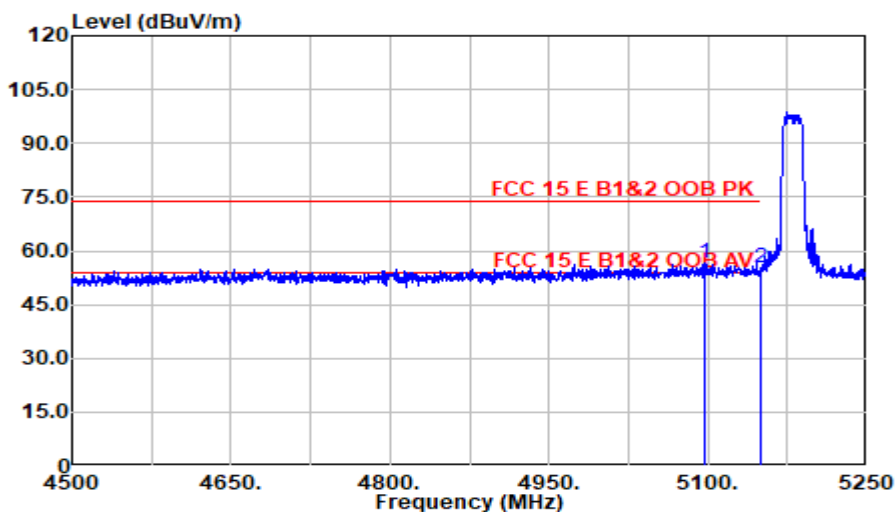
Mode: 802.11a CH5825MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	37.39	33.80	8.34	34.60	44.92	122.20	77.28	Average
5855.000	34.61	33.83	8.34	34.60	42.18	110.80	68.62	Average
5875.000	31.85	33.95	8.35	34.60	39.55	105.20	65.65	Average
5925.000	30.21	34.10	8.38	34.60	38.09	68.20	30.11	Average
7250.000	29.91	36.60	9.53	34.68	41.36	54.00	12.64	Average
7681.150	30.20	36.80	9.99	34.81	42.18	54.00	11.82	Average

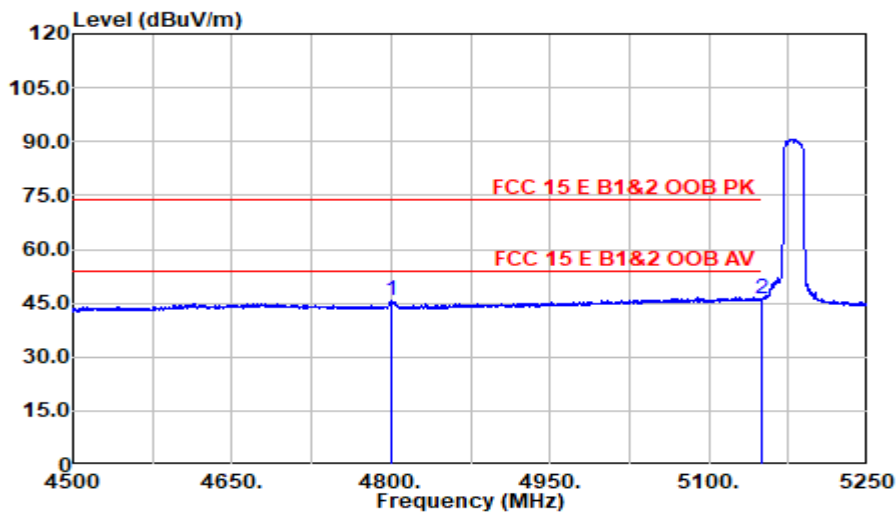
**Mode: 802.11n CH5180MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5097.000	49.88	33.59	7.87	34.60	56.75	74.00	17.25	Peak
5150.000	47.96	34.00	7.91	34.60	55.26	74.00	18.74	Peak

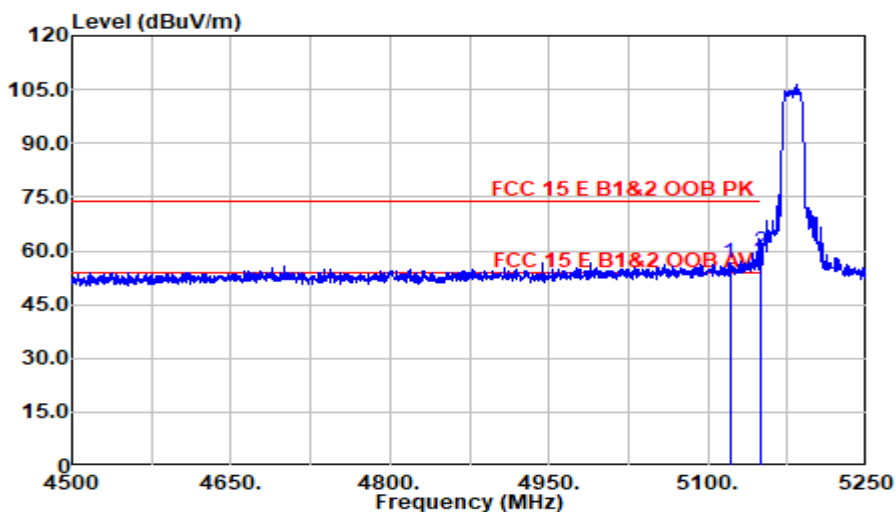
**Mode: 802.11n CH5180MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
4800.000	39.74	32.90	7.62	34.67	45.59	54.00	8.41	Average
5150.000	38.76	34.00	7.91	34.60	46.06	54.00	7.94	Average

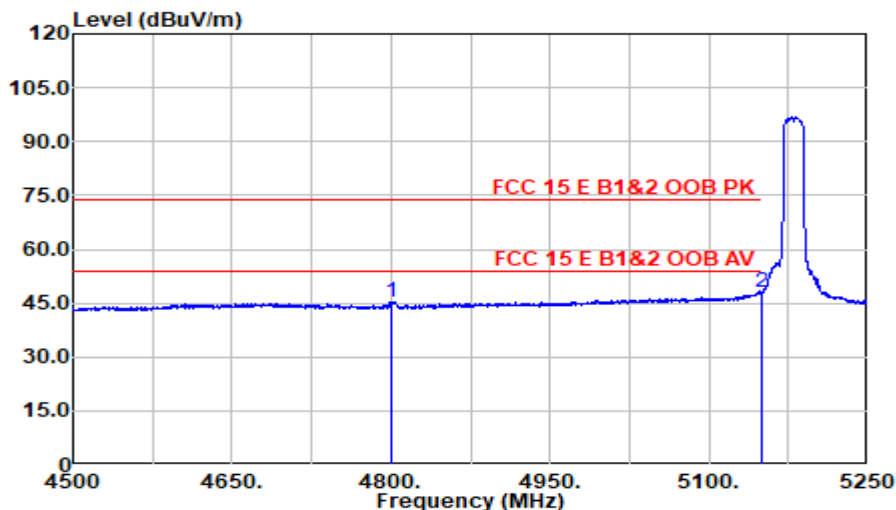
**Mode: 802.11n CH5180MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5120.625	49.53	33.77	7.89	34.60	56.58	74.00	17.42	Peak
5150.000	52.26	34.00	7.91	34.60	59.57	74.00	14.43	Peak

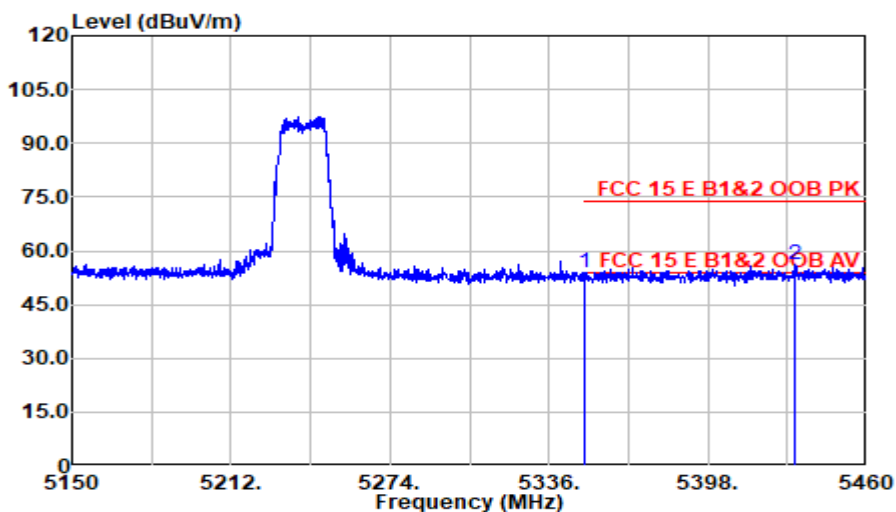
**Mode: 802.11n CH5180MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
4800.375	39.65	32.90	7.62	34.67	45.50	54.00	8.50	Average
5150.000	40.62	34.00	7.91	34.60	47.93	54.00	6.07	Average

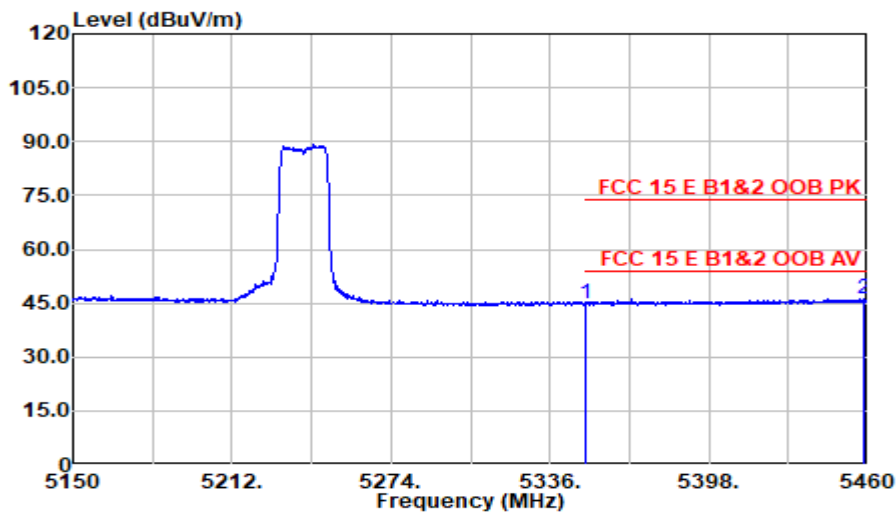
**Mode: 802.11n CH5240MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.51	34.10	8.04	34.60	54.05	74.00	19.95	Peak
5432.255	48.70	34.13	8.09	34.60	56.32	74.00	17.68	Peak

**Mode: 802.11n CH5240MHz**

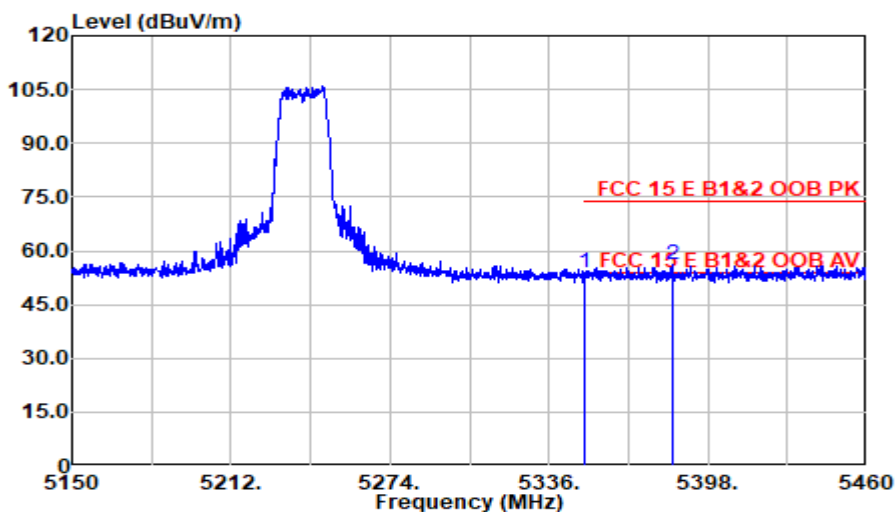


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	37.21	34.10	8.04	34.60	44.75	54.00	9.25	Average
5458.760	38.32	34.20	8.10	34.60	46.02	54.00	7.98	Average



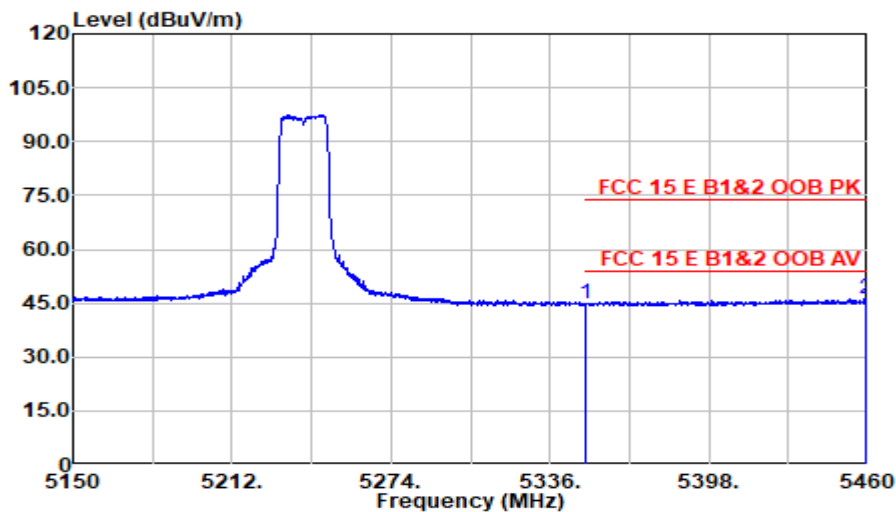
**Mode: 802.11n CH5240MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.30	34.10	8.04	34.60	53.83	74.00	20.17	Peak
5384.050	48.53	34.03	8.06	34.60	56.02	74.00	17.98	Peak

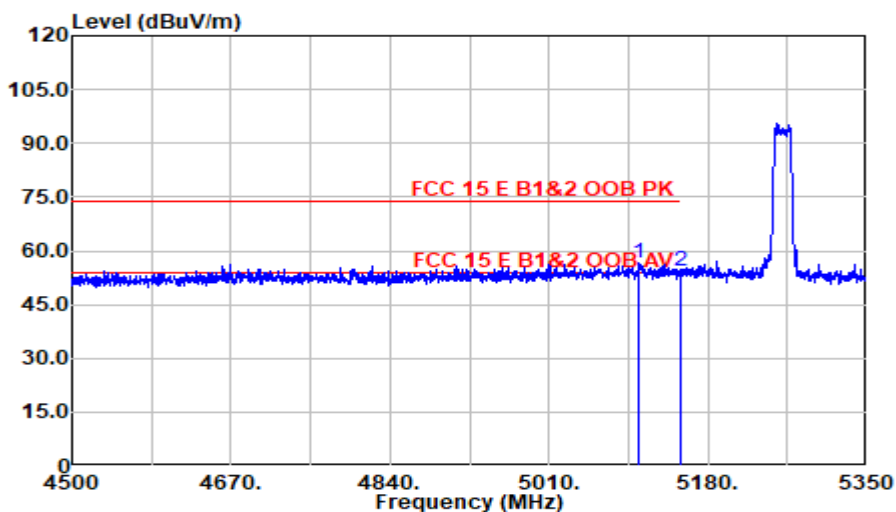
**Mode: 802.11n CH5240MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	37.23	34.10	8.04	34.60	44.77	54.00	9.23	Average
5458.915	38.46	34.20	8.10	34.60	46.17	54.00	7.83	Average

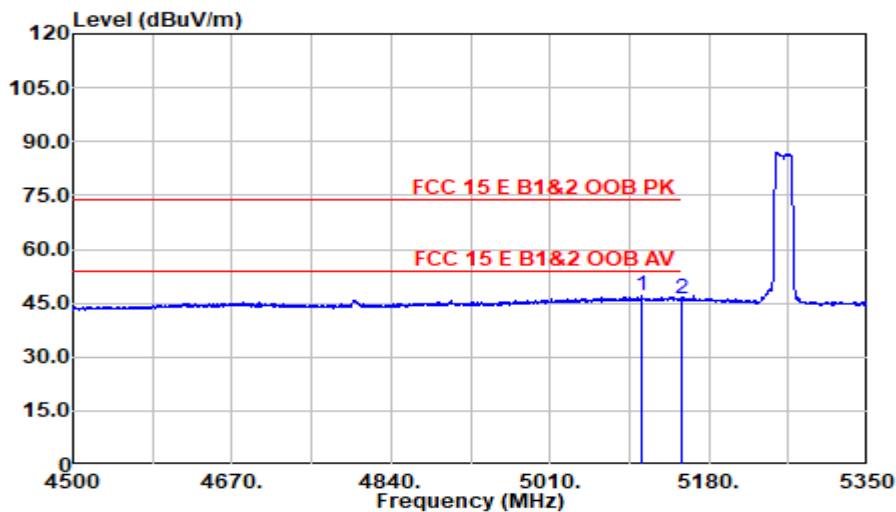
**Mode: 802.11n CH5260MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5106.050	49.49	33.65	7.88	34.60	56.42	74.00	17.58	Peak
5150.000	46.91	34.00	7.91	34.60	54.22	74.00	19.78	Peak

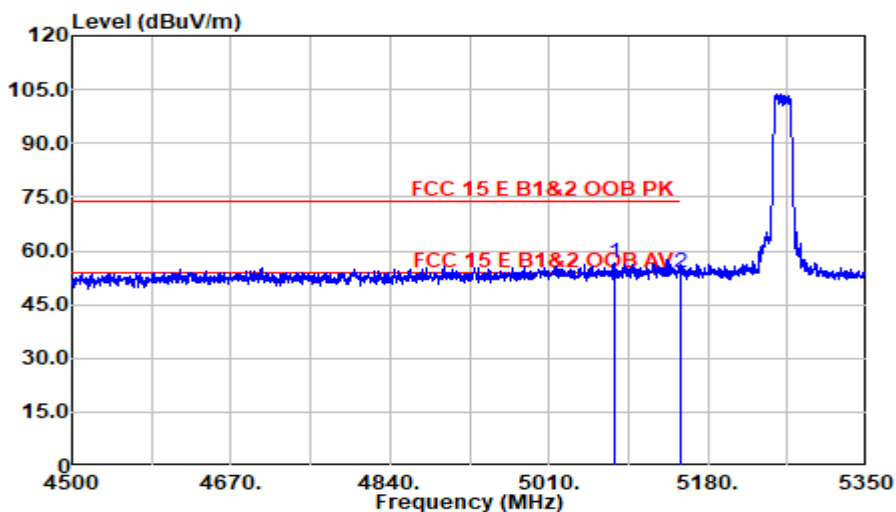
**Mode: 802.11n CH5260MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5107.750	40.20	33.66	7.88	34.60	47.14	54.00	6.86	Average
5150.000	38.70	34.00	7.91	34.60	46.01	54.00	7.99	Average

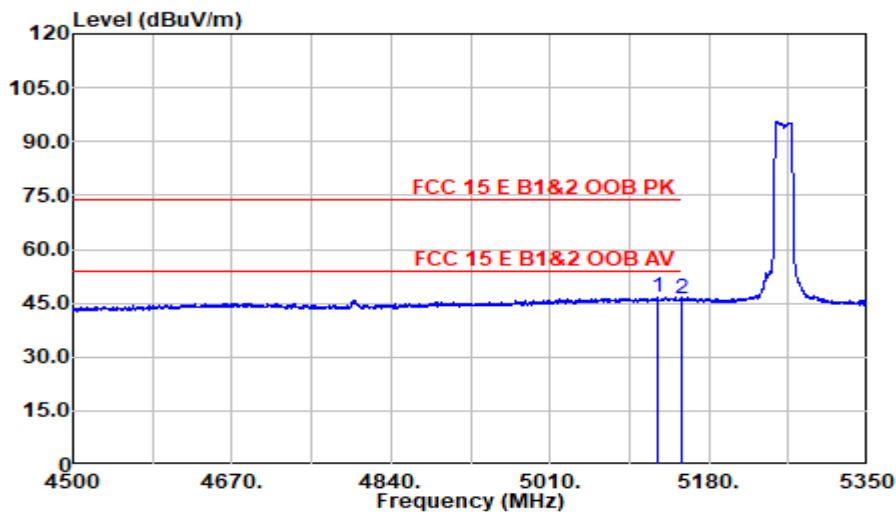
**Mode: 802.11n CH5260MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5079.275	49.62	33.56	7.86	34.60	56.44	74.00	17.56	Peak
5150.000	46.69	34.00	7.91	34.60	54.00	74.00	20.00	Peak

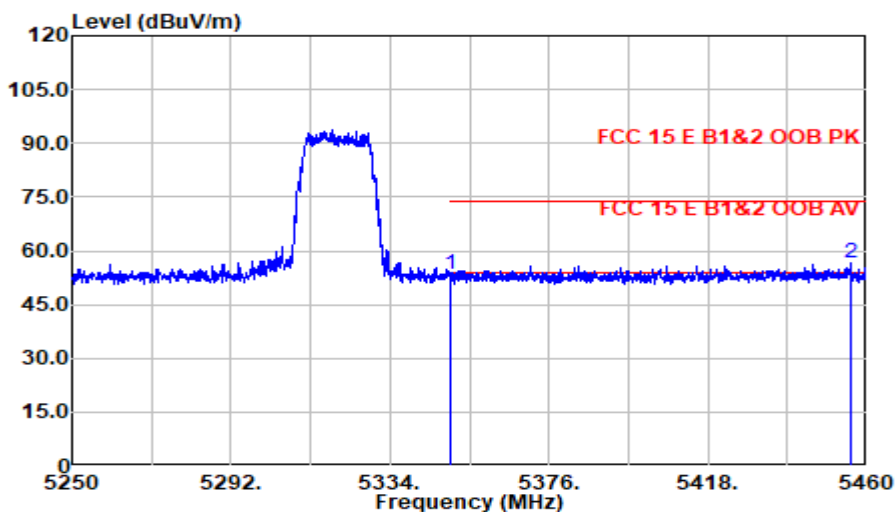
**Mode: 802.11n CH5260MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5126.025	39.41	33.81	7.89	34.60	46.51	54.00	7.49	Average
5150.000	39.06	34.00	7.91	34.60	46.37	54.00	7.63	Average

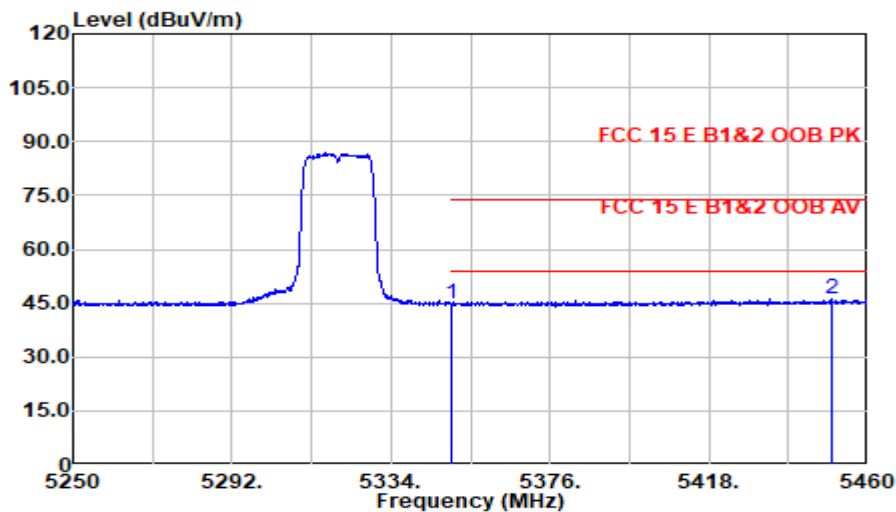
**Mode: 802.11n CH5320MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.11	34.10	8.04	34.60	53.65	74.00	20.35	Peak
5455.695	49.00	34.20	8.10	34.60	56.71	74.00	17.29	Peak

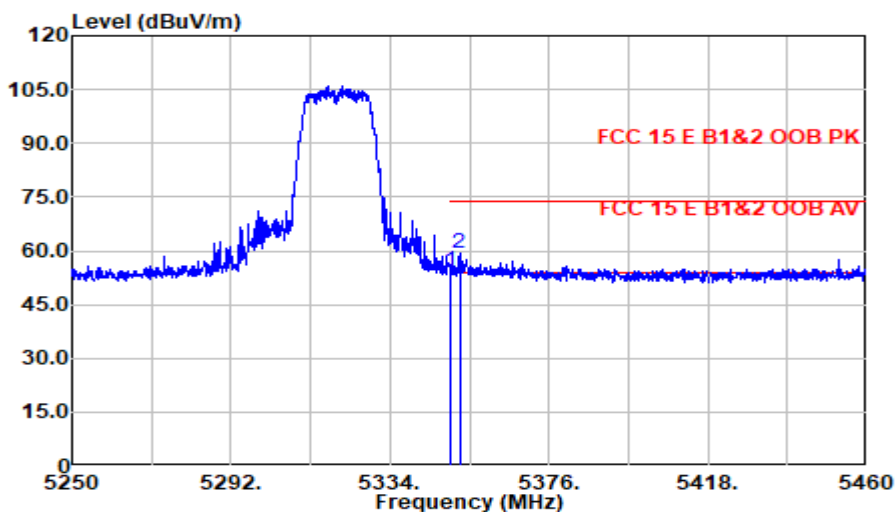
**Mode: 802.11n CH5320MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	37.42	34.10	8.04	34.60	44.96	54.00	9.04	Average
5450.445	38.66	34.20	8.10	34.60	46.36	54.00	7.64	Average

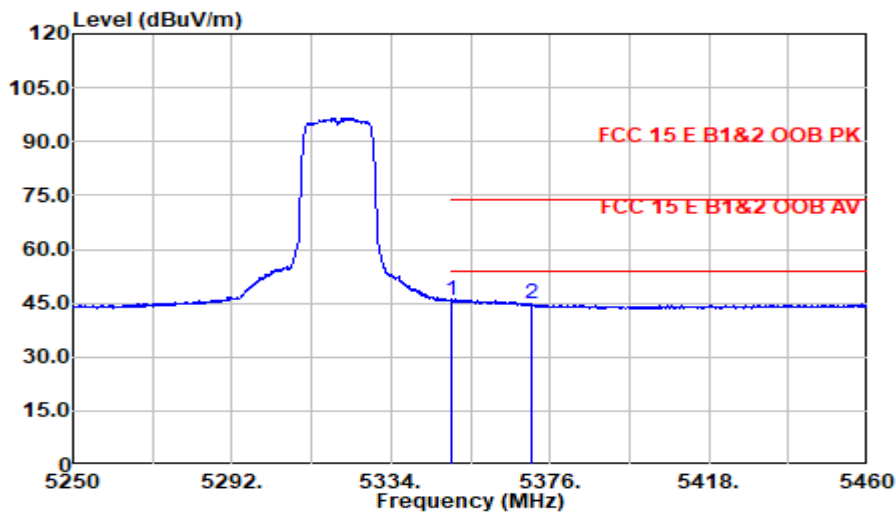
Mode: 802.11n CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.87	34.10	8.04	34.60	54.41	74.00	19.59	Peak
5352.375	51.90	34.10	8.04	34.60	59.43	74.00	14.57	Peak

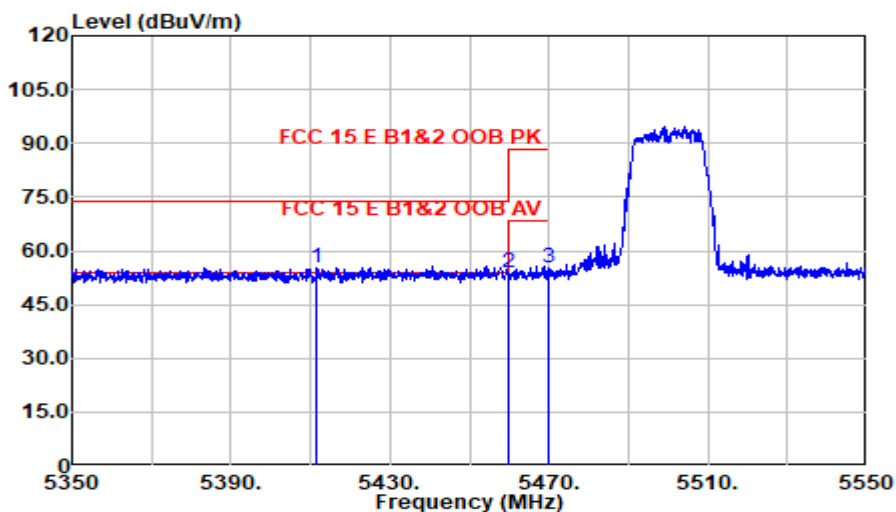
Mode: 802.11n CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	38.04	34.10	8.04	34.60	45.58	54.00	8.42	Average
5371.380	37.36	34.06	8.05	34.60	44.87	54.00	9.13	Average

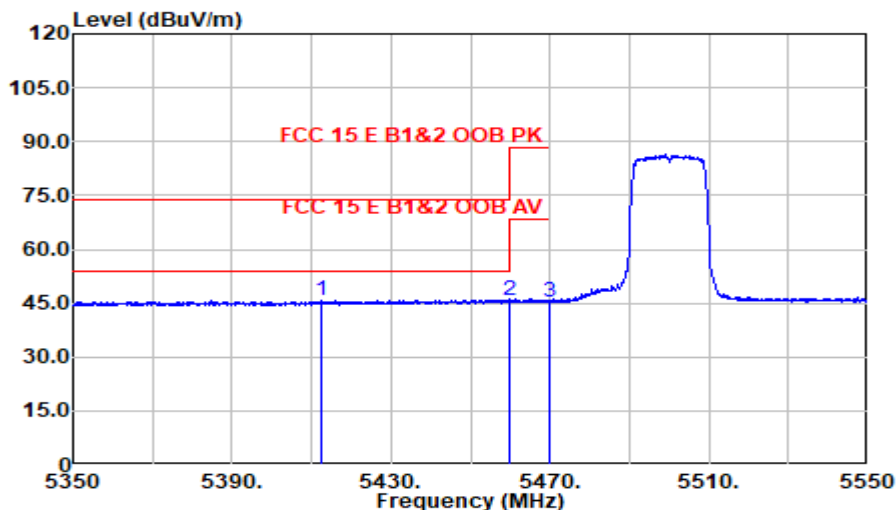
**Mode: 802.11n CH5500MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5411.700	47.76	34.05	8.07	34.60	55.28	74.00	18.72	Peak
5460.000	46.25	34.20	8.10	34.60	53.96	74.00	20.04	Peak
5470.000	47.44	34.20	8.11	34.60	55.15	88.20	33.05	Peak

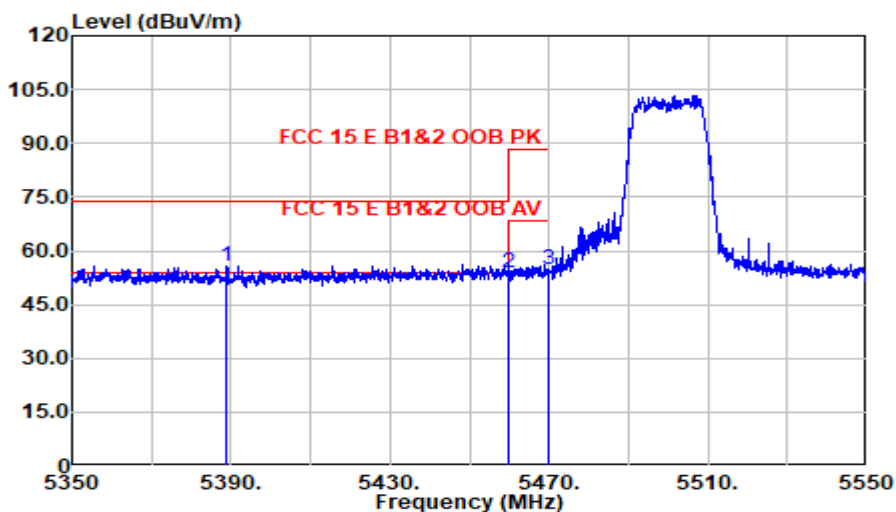
**Mode: 802.11n CH5500MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5412.400	38.26	34.05	8.08	34.60	45.79	54.00	8.21	Average
5460.000	38.21	34.20	8.10	34.60	45.92	54.00	8.08	Average
5470.000	37.78	34.20	8.11	34.60	45.49	68.20	22.71	Average

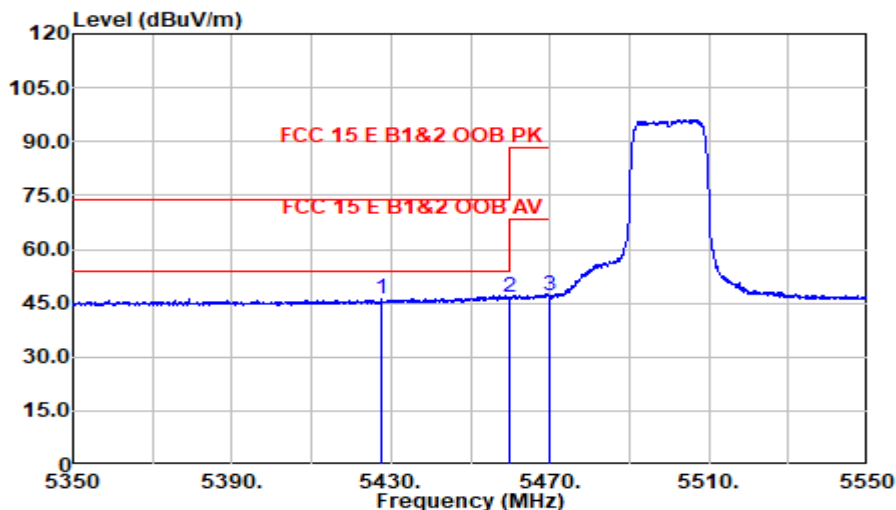
**Mode: 802.11n CH5500MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5389.000	48.26	34.02	8.06	34.60	55.75	74.00	18.25	Peak
5460.000	46.23	34.20	8.10	34.60	53.93	74.00	20.07	Peak
5470.000	47.17	34.20	8.11	34.60	54.89	88.20	33.31	Peak

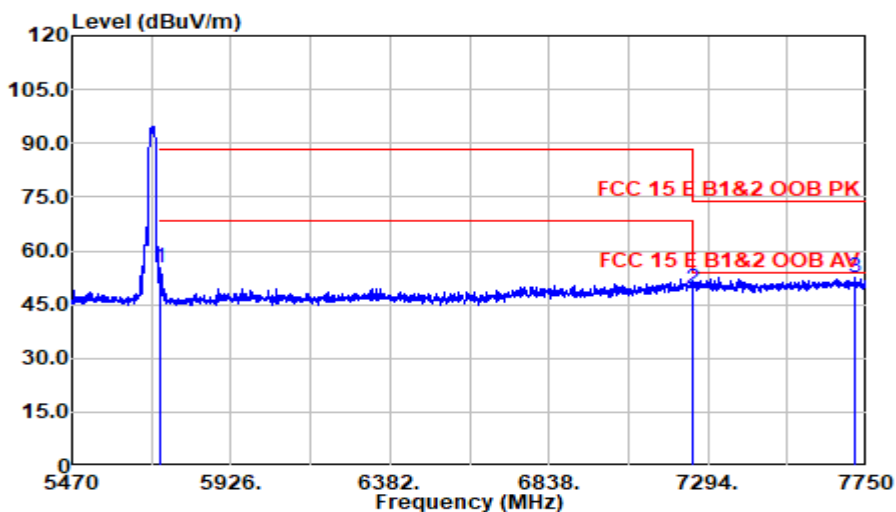
**Mode: 802.11n CH5500MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5427.800	38.57	34.11	8.08	34.60	46.16	54.00	7.84	Average
5460.000	38.82	34.20	8.10	34.60	46.52	54.00	7.48	Average
5470.000	39.23	34.20	8.11	34.60	46.94	68.20	21.26	Average

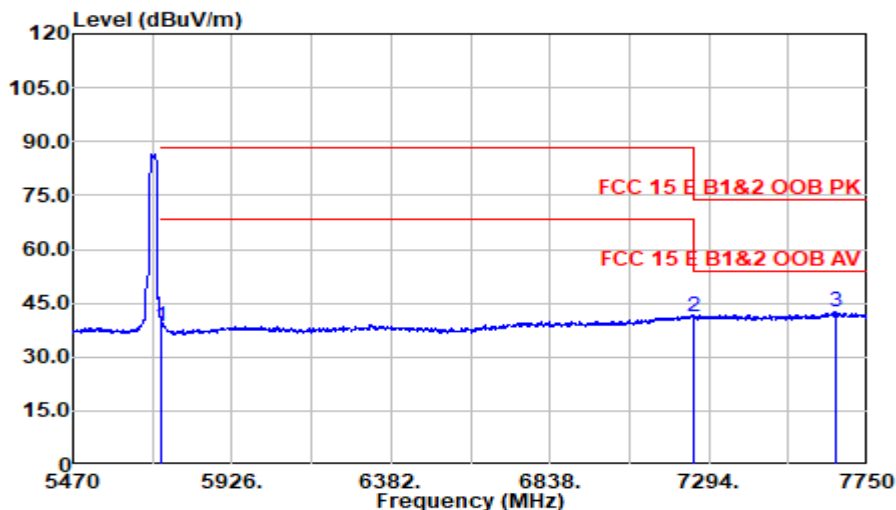
**Mode: 802.11n CH5700MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	47.90	33.80	8.26	34.60	55.37	88.20	32.83	Peak
7250.000	38.13	36.60	9.53	34.68	49.58	74.00	24.42	Peak
7715.800	40.72	36.83	10.02	34.82	52.75	74.00	21.25	Peak

**Mode: 802.11n CH5700MHz**

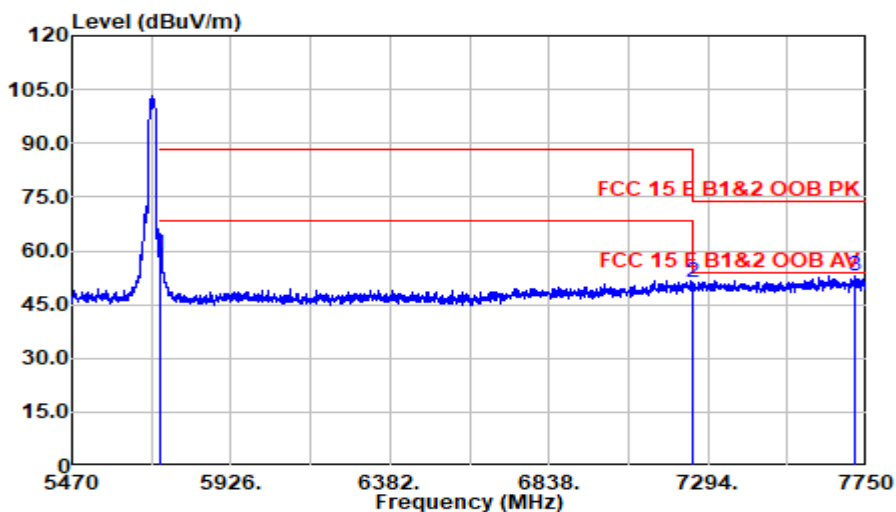


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	31.04	33.80	8.26	34.60	38.51	68.20	29.69	Average
7250.000	29.78	36.60	9.53	34.68	41.23	54.00	12.77	Average
7659.940	30.61	36.80	9.97	34.80	42.57	54.00	11.43	Average



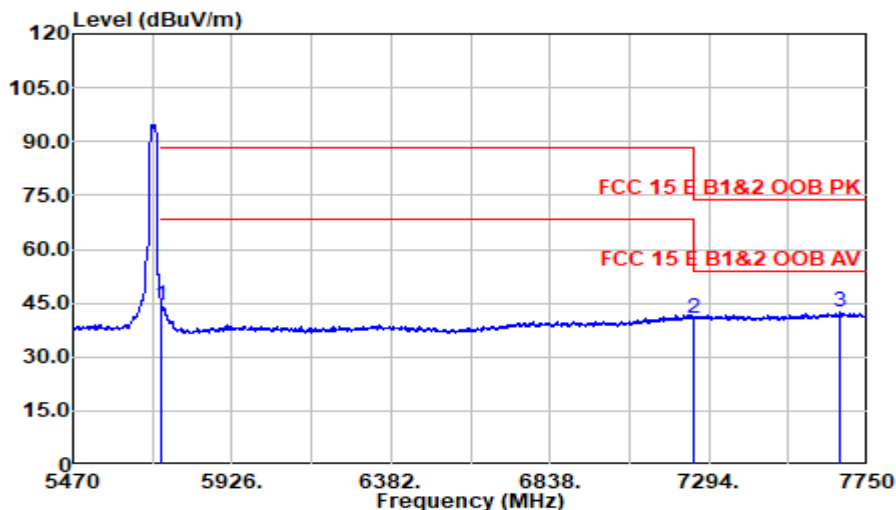
Mode: 802.11n CH5700MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	51.23	33.80	8.26	34.60	58.69	88.20	29.51	Peak
7250.000	39.93	36.60	9.53	34.68	51.38	74.00	22.62	Peak
7716.940	40.95	36.83	10.02	34.82	52.99	74.00	21.01	Peak

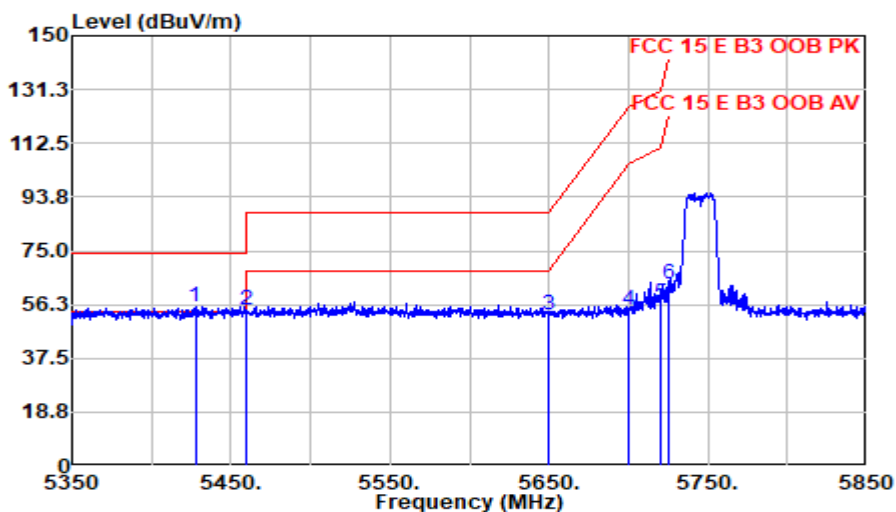
Mode: 802.11n CH5700MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	37.08	33.80	8.26	34.60	44.54	68.20	23.66	Average
7250.000	29.50	36.60	9.53	34.68	40.95	54.00	13.05	Average
7670.200	30.39	36.80	9.98	34.81	42.36	54.00	11.64	Average

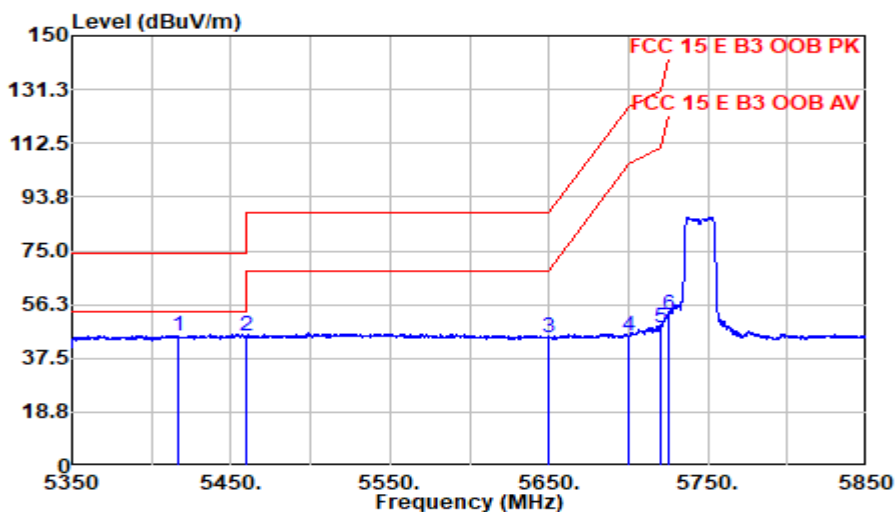
Mode: 802.11n CH5725MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5427.500	47.66	34.11	8.08	34.60	55.25	74.00	18.75	Peak
5460.000	46.43	34.20	8.10	34.60	54.14	74.00	19.86	Peak
5650.000	45.07	33.90	8.22	34.60	52.59	88.20	35.61	Peak
5700.000	46.73	33.80	8.25	34.60	54.18	125.20	71.02	Peak
5720.000	49.16	33.80	8.26	34.60	56.62	130.80	74.18	Peak
5725.000	56.13	33.80	8.26	34.60	63.59	142.20	78.61	Peak

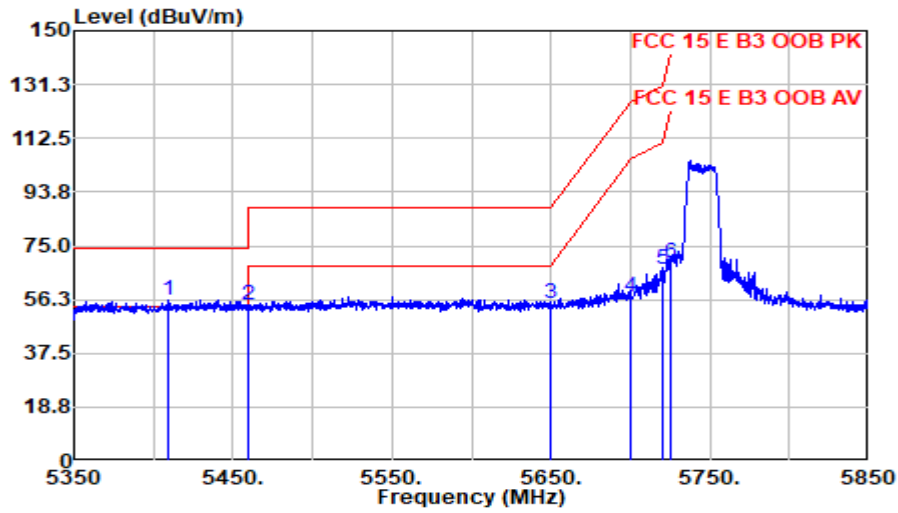
**Mode: 802.11n CH5725MHz**



**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5416.750	37.94	34.07	8.08	34.60	45.49	54.00	8.51	Average
5460.000	37.84	34.20	8.10	34.60	45.55	54.00	8.45	Average
5650.000	37.24	33.90	8.22	34.60	44.76	68.20	23.44	Average
5700.000	37.80	33.80	8.25	34.60	45.25	105.20	59.95	Average
5720.000	40.92	33.80	8.26	34.60	48.38	110.80	62.42	Average
5725.000	45.10	33.80	8.26	34.60	52.56	122.20	69.64	Average

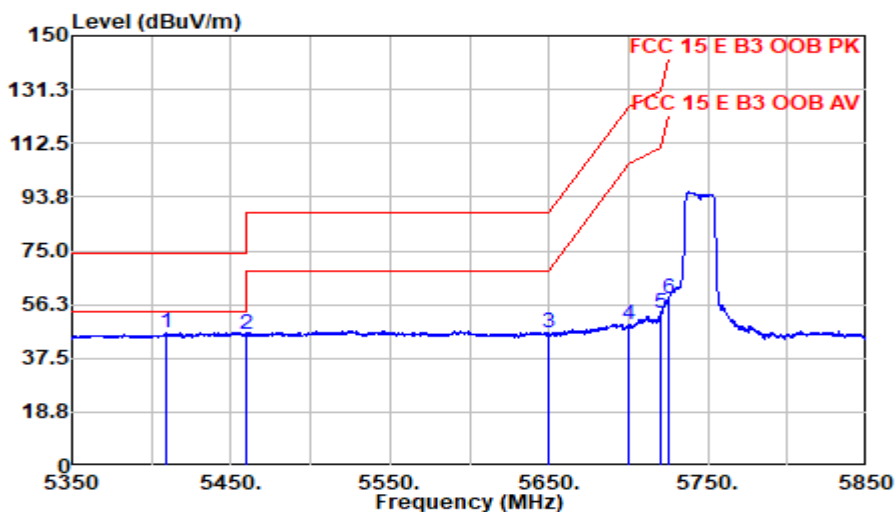
**Mode: 802.11n CH5725MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5409.250	48.53	34.04	8.07	34.60	56.04	74.00	17.96	Peak
5460.000	46.36	34.20	8.10	34.60	54.06	74.00	19.94	Peak
5650.000	47.65	33.90	8.22	34.60	55.17	88.20	33.03	Peak
5700.000	49.56	33.80	8.25	34.60	57.01	125.20	68.19	Peak
5720.000	59.42	33.80	8.26	34.60	66.88	130.80	63.92	Peak
5725.000	61.65	33.80	8.26	34.60	69.12	142.20	73.08	Peak

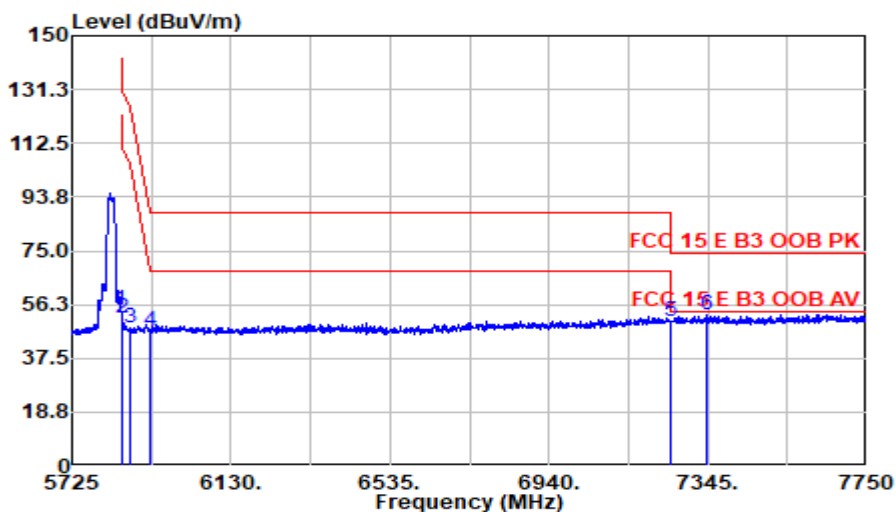
**Mode: 802.11n CH5725MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5409.250	38.77	34.04	8.07	34.60	46.28	54.00	7.72	Average
5460.000	38.10	34.20	8.10	34.60	45.80	54.00	8.20	Average
5650.000	38.63	33.90	8.22	34.60	46.15	68.20	22.05	Average
5700.000	41.52	33.80	8.25	34.60	48.97	105.20	56.23	Average
5720.000	45.69	33.80	8.26	34.60	53.15	110.80	57.65	Average
5725.000	50.61	33.80	8.26	34.60	58.07	122.20	64.13	Average

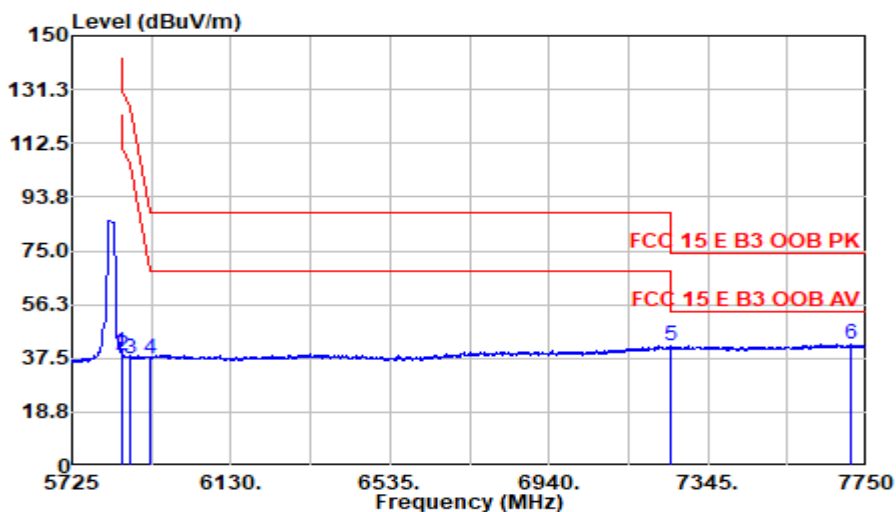
**Mode: 802.11n CH5825MHz**



**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	46.61	33.80	8.34	34.60	54.15	142.20	88.05	Peak
5855.000	43.79	33.83	8.34	34.60	51.36	130.80	79.44	Peak
5875.000	40.47	33.95	8.35	34.60	48.17	125.20	77.03	Peak
5925.000	39.22	34.10	8.38	34.60	47.09	88.20	41.11	Peak
7250.000	38.68	36.60	9.53	34.68	50.13	74.00	23.87	Peak
7341.962	40.84	36.85	9.63	34.71	52.61	74.00	21.39	Peak

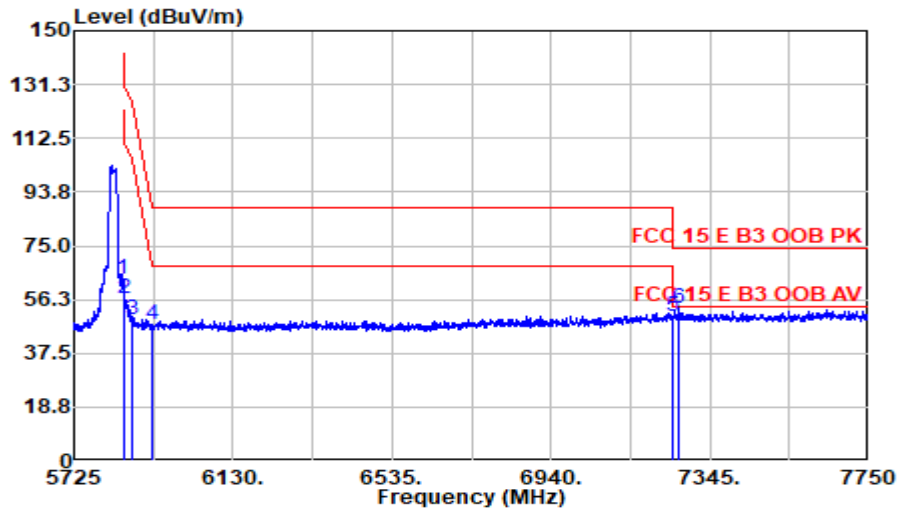
**Mode: 802.11n CH5825MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	32.02	33.80	8.34	34.60	39.56	122.20	82.64	Average
5855.000	31.13	33.83	8.34	34.60	38.70	110.80	72.10	Average
5875.000	29.83	33.95	8.35	34.60	37.53	105.20	67.67	Average
5925.000	29.48	34.10	8.38	34.60	37.36	68.20	30.84	Average
7250.000	30.28	36.60	9.53	34.68	41.73	54.00	12.27	Average
7709.500	30.26	36.82	10.02	34.82	42.28	54.00	11.72	Average

**Mode: 802.11n CH5825MHz**

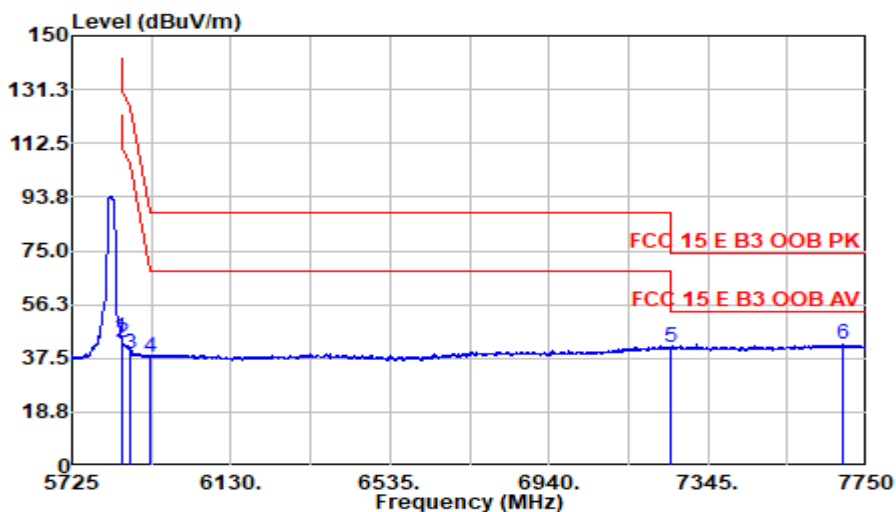


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	55.75	33.80	8.34	34.60	63.29	142.20	78.91	Peak
5855.000	49.06	33.83	8.34	34.60	56.63	130.80	74.17	Peak
5875.000	41.39	33.95	8.35	34.60	49.09	125.20	76.11	Peak
5925.000	39.76	34.10	8.38	34.60	47.64	88.20	40.56	Peak
7250.000	39.14	36.60	9.53	34.68	50.59	74.00	23.41	Peak
7265.013	41.58	36.60	9.54	34.68	53.05	74.00	20.95	Peak



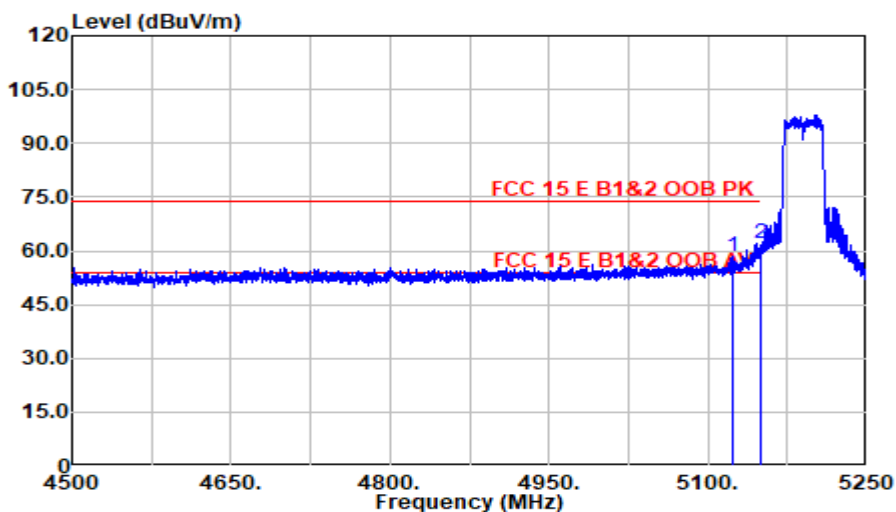
**Mode: 802.11n CH5825MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	37.46	33.80	8.34	34.60	45.00	122.20	77.20	Average
5855.000	35.73	33.83	8.34	34.60	43.30	110.80	67.50	Average
5875.000	31.61	33.95	8.35	34.60	39.31	105.20	65.89	Average
5925.000	30.19	34.10	8.38	34.60	38.07	68.20	30.13	Average
7250.000	29.60	36.60	9.53	34.68	41.05	54.00	12.95	Average
7688.237	30.38	36.80	9.99	34.81	42.36	54.00	11.64	Average

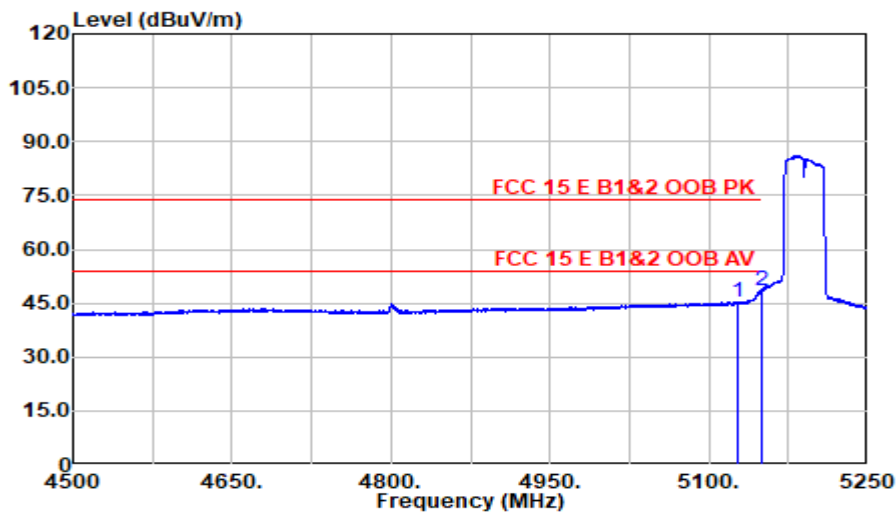
**Mode: 802.11n40 CH5190MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5123.625	51.23	33.79	7.89	34.60	58.31	74.00	15.69	Peak
5150.000	54.64	34.00	7.91	34.60	61.95	74.00	12.05	Peak

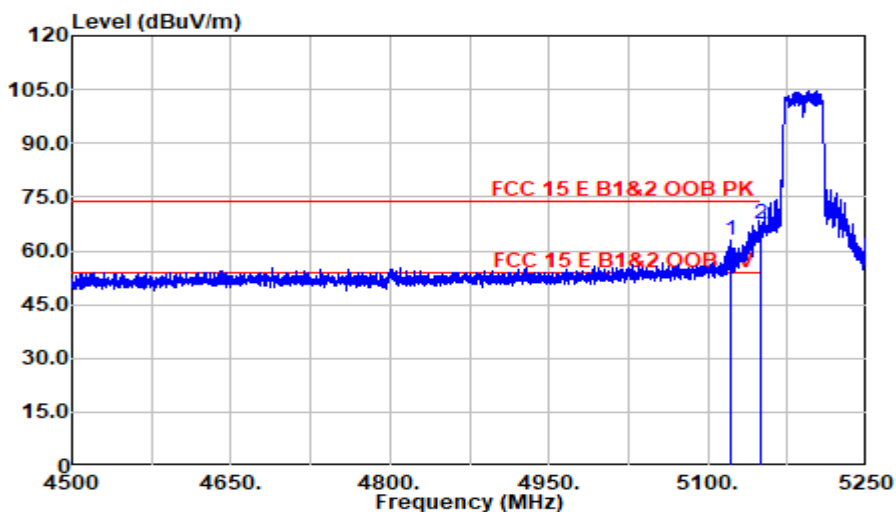
**Mode: 802.11n40 CH5190MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5127.188	38.19	33.82	7.89	34.60	45.30	54.00	8.70	Average
5150.000	41.37	34.00	7.91	34.60	48.68	54.00	5.32	Average

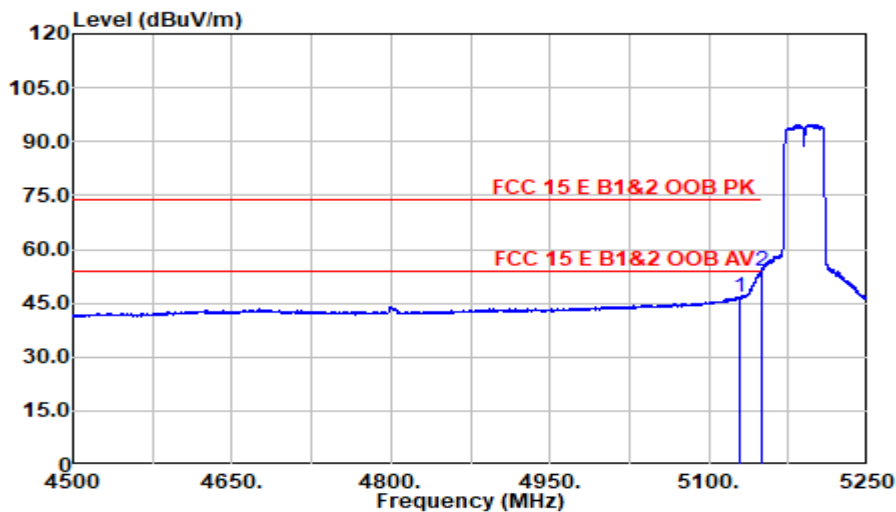
**Mode: 802.11n40 CH5190MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5121.000	55.66	33.77	7.89	34.60	62.72	74.00	11.28	Peak
5150.000	60.32	34.00	7.91	34.60	67.63	74.00	6.37	Peak

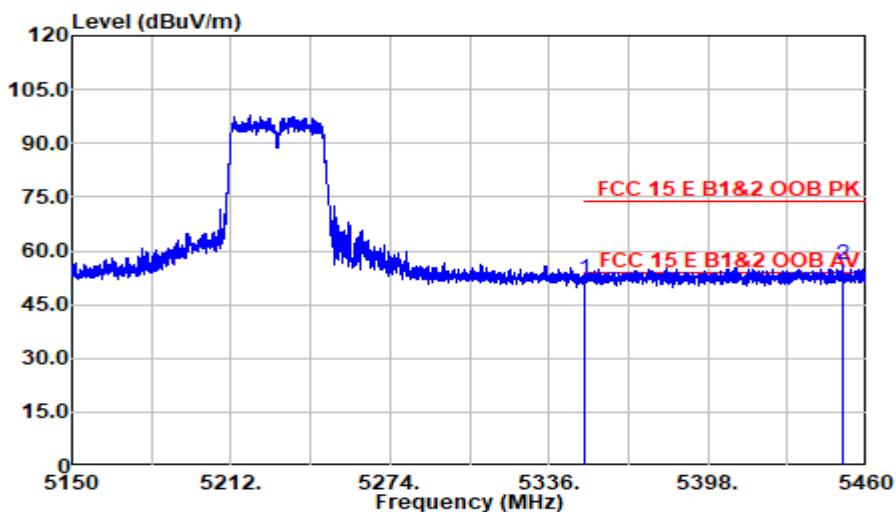
**Mode: 802.11n40 CH5190MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5129.250	39.60	33.83	7.90	34.60	46.73	54.00	7.27	Average
5150.000	46.54	34.00	7.91	34.60	53.85	54.00	0.15	Average

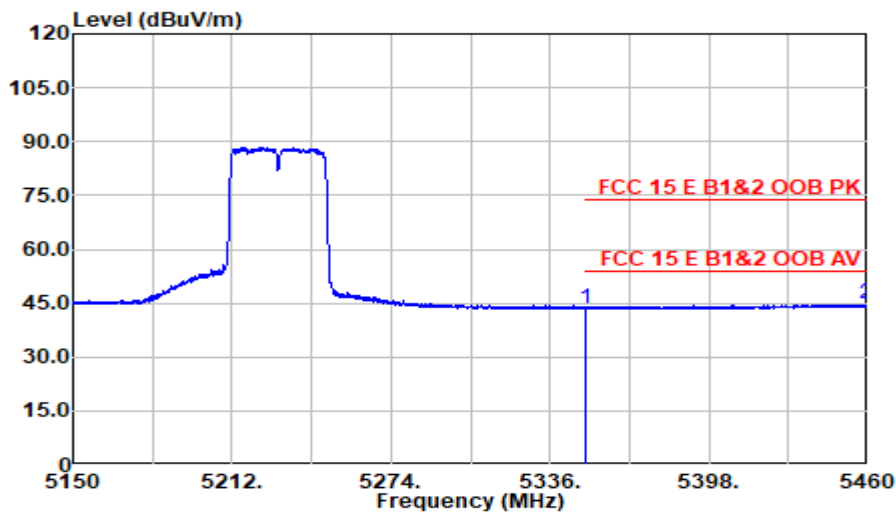
**Mode: 802.11n40 CH5230MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	44.56	34.10	8.04	34.60	52.09	74.00	21.91	Peak
5450.467	48.33	34.20	8.10	34.60	56.03	74.00	17.97	Peak

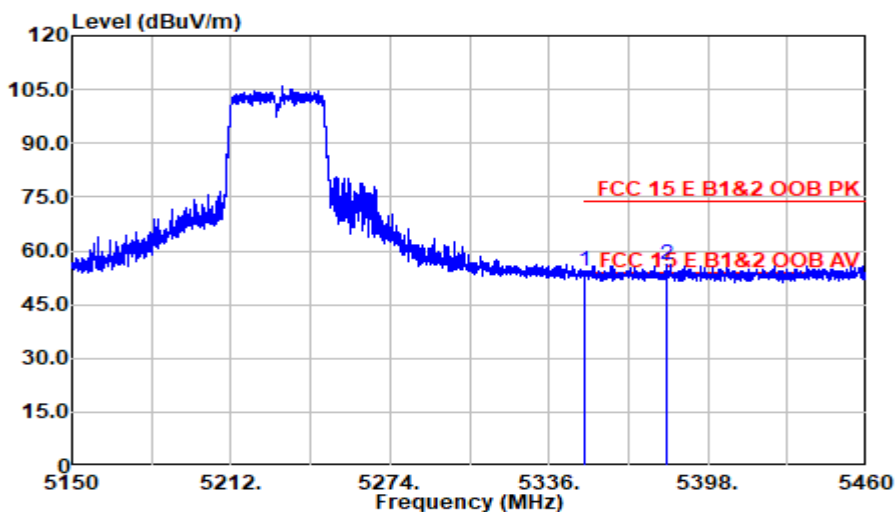
**Mode: 802.11n40 CH5230MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	35.90	34.10	8.04	34.60	43.44	54.00	10.56	Average
5459.612	37.01	34.20	8.10	34.60	44.72	54.00	9.28	Average

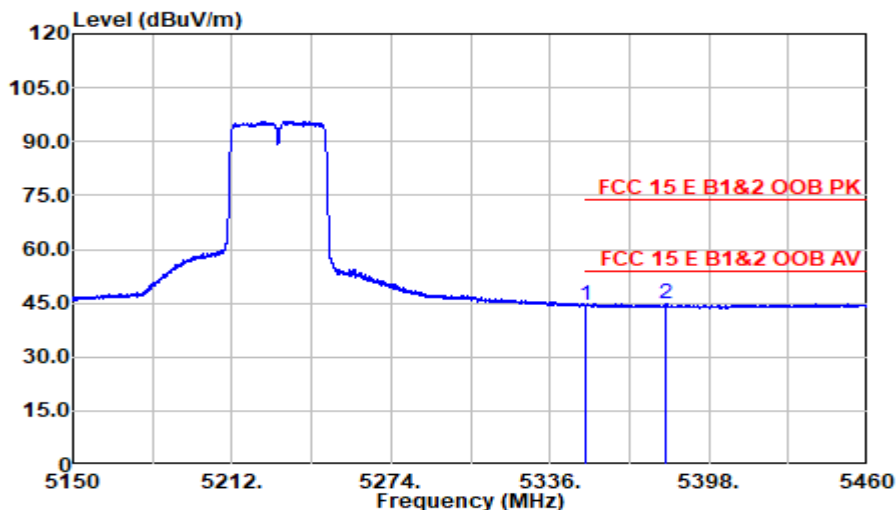
Mode: 802.11n40 CH5230MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.85	34.10	8.04	34.60	54.39	74.00	19.61	Peak
5381.880	48.68	34.04	8.06	34.60	56.17	74.00	17.83	Peak

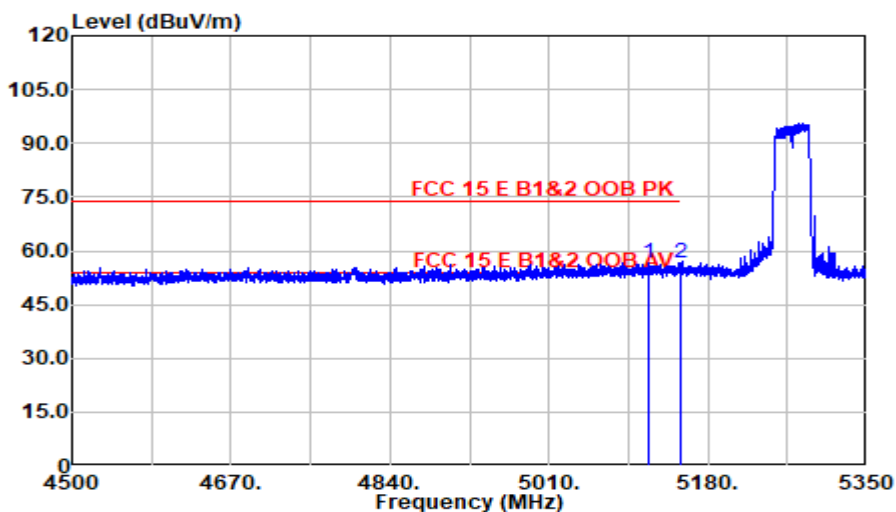
Mode: 802.11n40 CH5230MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	37.03	34.10	8.04	34.60	44.56	54.00	9.44	Average
5381.493	37.26	34.04	8.06	34.60	44.75	54.00	9.25	Average

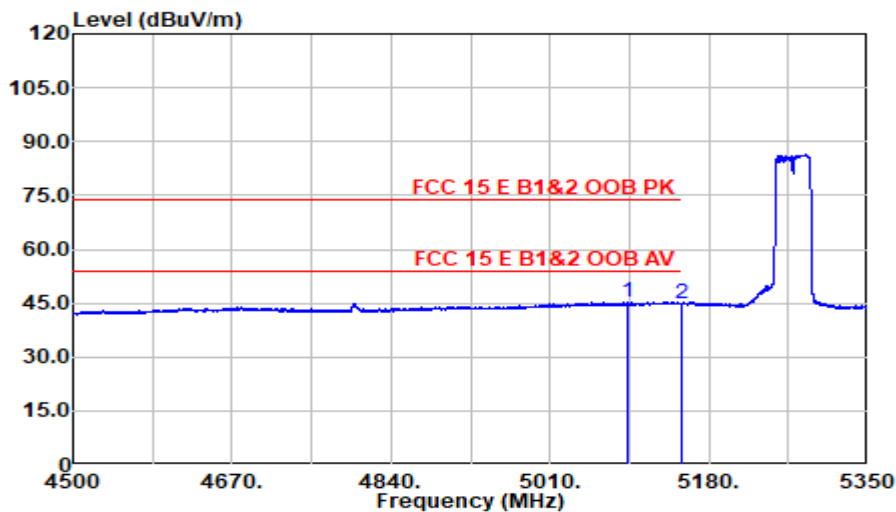
**Mode: 802.11n40 CH5270MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5116.675	49.75	33.73	7.89	34.60	56.77	74.00	17.23	Peak
5150.000	49.46	34.00	7.91	34.60	56.77	74.00	17.23	Peak

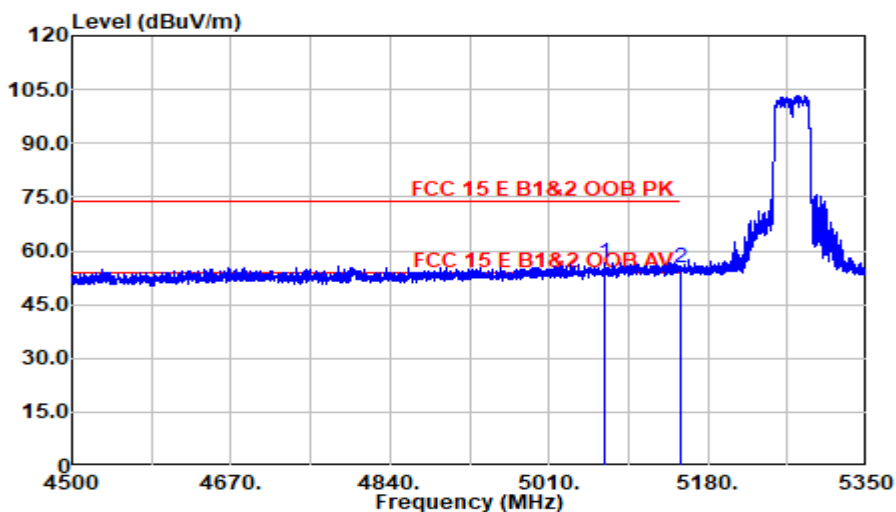
**Mode: 802.11n40 CH5270MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5092.663	38.35	33.59	7.87	34.60	45.20	54.00	8.80	Average
5150.000	37.55	34.00	7.91	34.60	44.86	54.00	9.14	Average

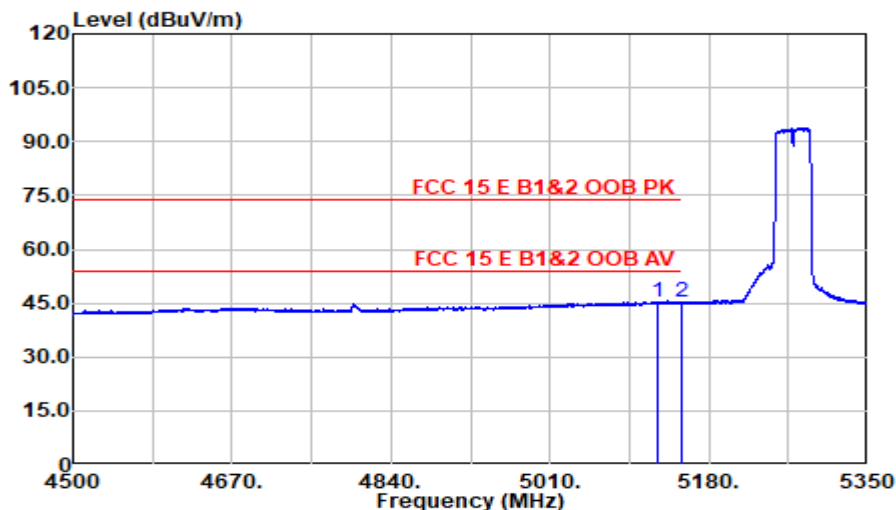
Mode: 802.11n40 CH5270MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5069.288	49.97	33.54	7.86	34.60	56.77	74.00	17.23	Peak
5150.000	47.84	34.00	7.91	34.60	55.15	74.00	18.85	Peak

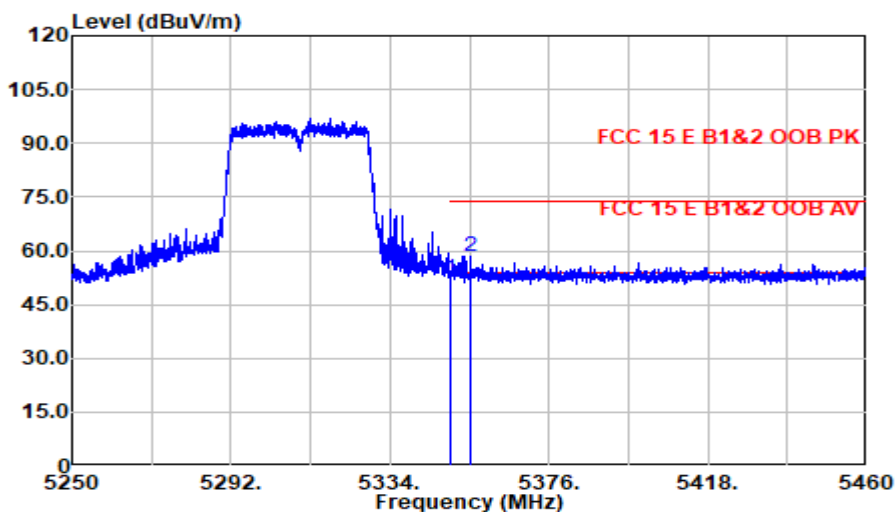
Mode: 802.11n40 CH5270MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5125.813	38.32	33.81	7.89	34.60	45.42	54.00	8.58	Average
5150.000	37.84	34.00	7.91	34.60	45.15	54.00	8.85	Average

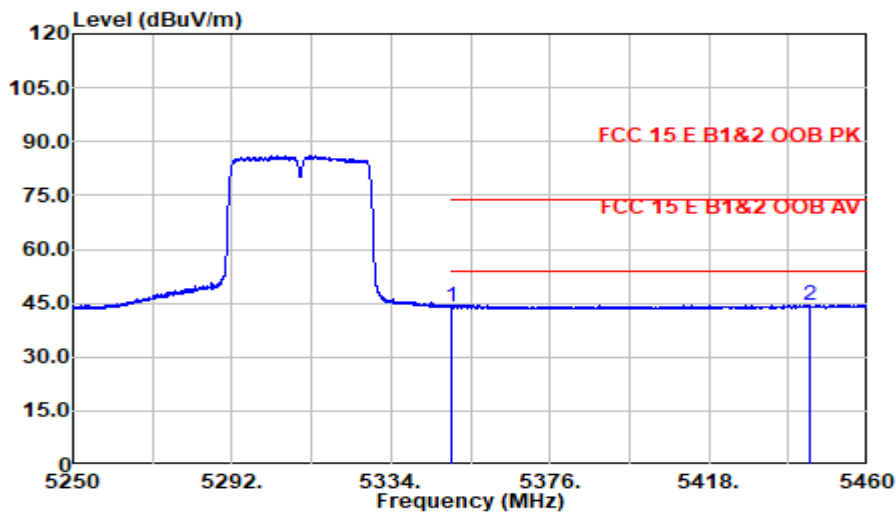
**Mode: 802.11n40 CH5310MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	44.64	34.10	8.04	34.60	52.18	74.00	21.82	Peak
5355.315	51.08	34.09	8.04	34.60	58.61	74.00	15.39	Peak

**Mode: 802.11n40 CH5310MHz**

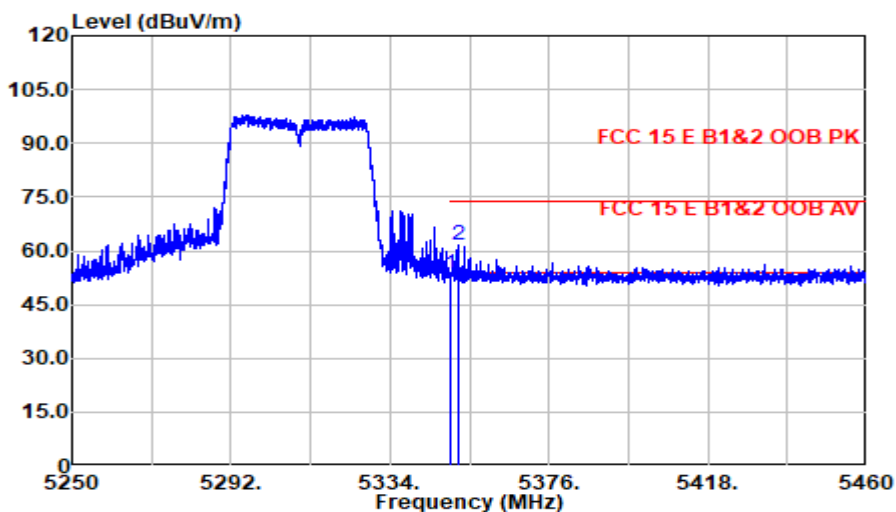


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	36.52	34.10	8.04	34.60	44.06	54.00	9.94	Average
5444.723	36.90	34.18	8.10	34.60	44.57	54.00	9.43	Average



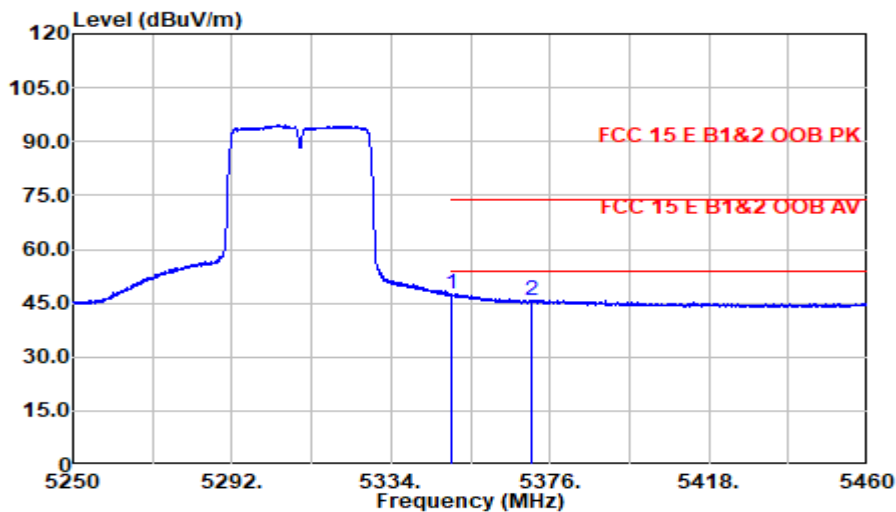
Mode: 802.11n40 CH5310MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	46.06	34.10	8.04	34.60	53.60	74.00	20.40	Peak
5351.850	53.97	34.10	8.04	34.60	61.51	74.00	12.49	Peak

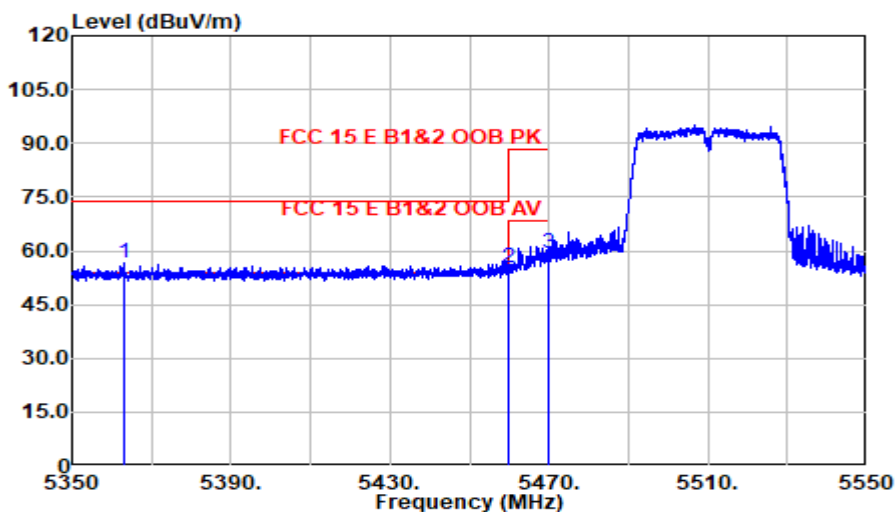
Mode: 802.11n40 CH5310MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5350.000	39.97	34.10	8.04	34.60	47.50	54.00	6.50	Average
5371.380	38.34	34.06	8.05	34.60	45.85	54.00	8.15	Average

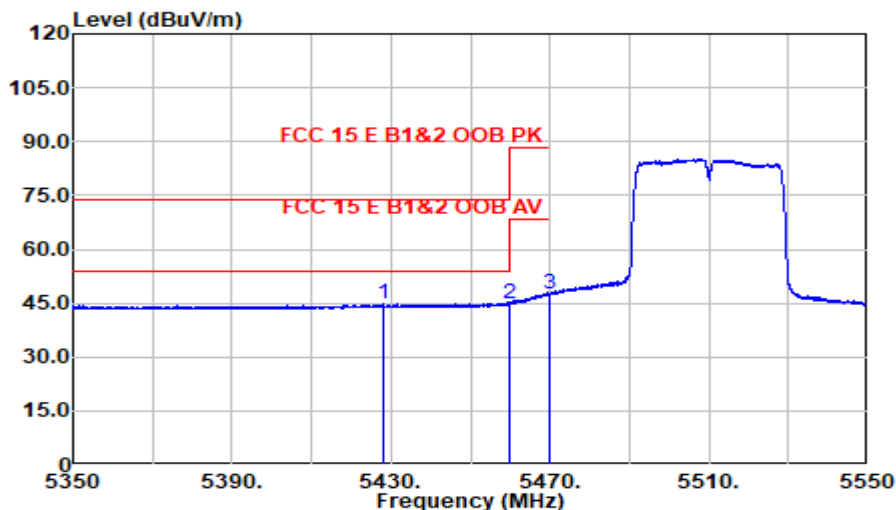
**Mode: 802.11n40 CH5510MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5363.200	48.90	34.07	8.04	34.60	56.41	74.00	17.59	Peak
5460.000	47.34	34.20	8.10	34.60	55.05	74.00	18.95	Peak
5470.000	51.75	34.20	8.11	34.60	59.46	88.20	28.74	Peak

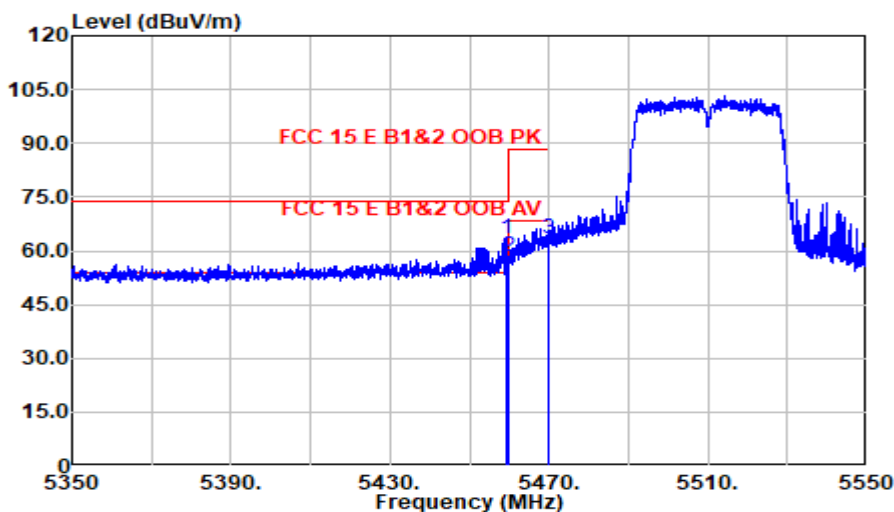
**Mode: 802.11n40 CH5510MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5428.000	37.10	34.11	8.08	34.60	44.70	54.00	9.30	Average
5460.000	37.23	34.20	8.10	34.60	44.93	54.00	9.07	Average
5470.000	39.77	34.20	8.11	34.60	47.48	68.20	20.72	Average

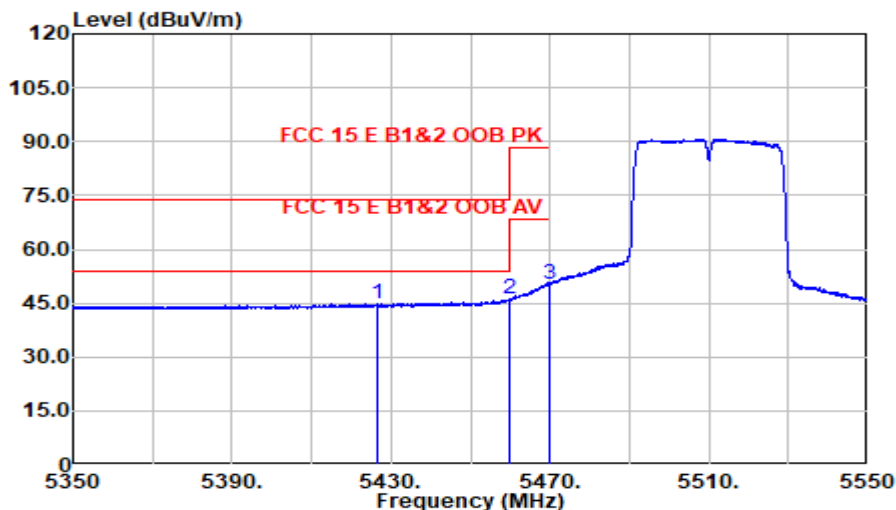
**Mode: 802.11n40 CH5510MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5459.100	55.83	34.20	8.10	34.60	63.53	74.00	10.47	Peak
5460.000	50.90	34.20	8.10	34.60	58.61	74.00	15.39	Peak
5470.000	55.50	34.20	8.11	34.60	63.21	88.20	24.99	Peak

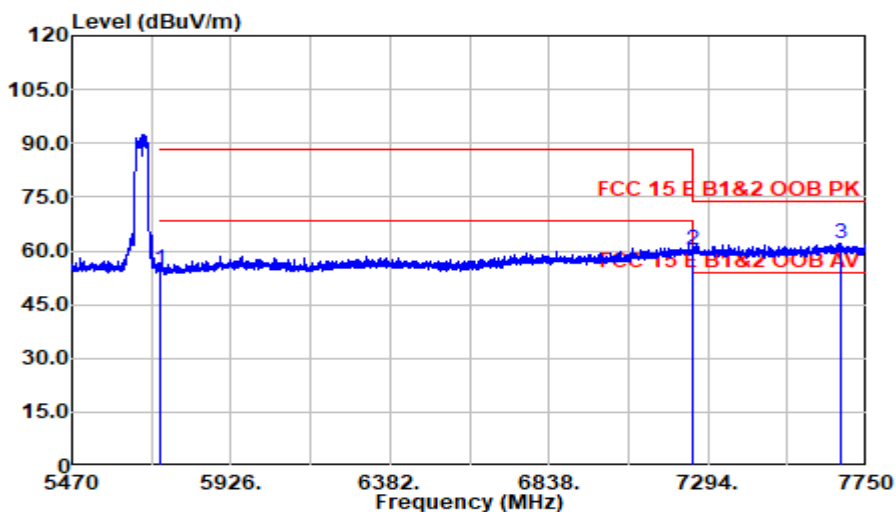
**Mode: 802.11n40 CH5510MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5426.500	37.15	34.11	8.08	34.60	44.74	54.00	9.26	Average
5460.000	38.34	34.20	8.10	34.60	46.05	54.00	7.95	Average
5470.000	42.63	34.20	8.11	34.60	50.34	68.20	17.86	Average

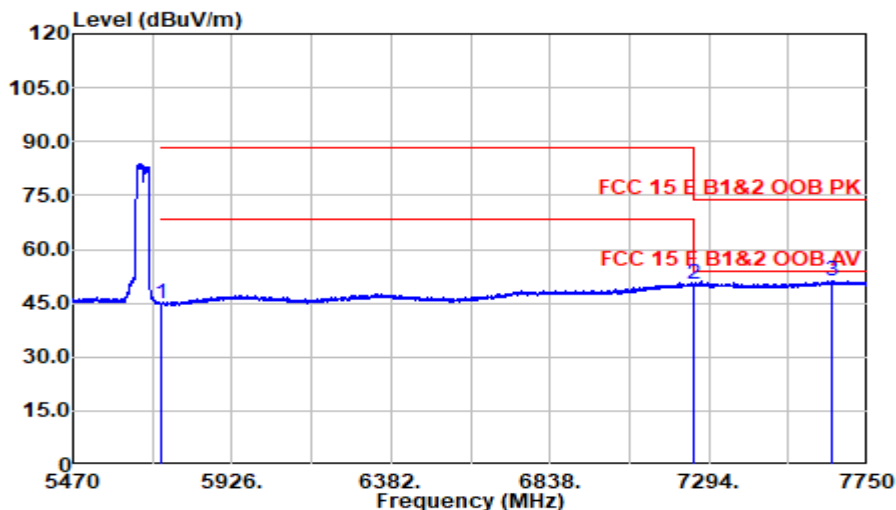
**Mode: 802.11n40 CH5670MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	47.21	33.80	8.26	34.60	54.68	88.20	33.52	Peak
7250.000	48.81	36.60	9.53	34.68	60.26	74.00	13.74	Peak
7673.050	49.99	36.80	9.98	34.81	61.97	74.00	12.03	Peak

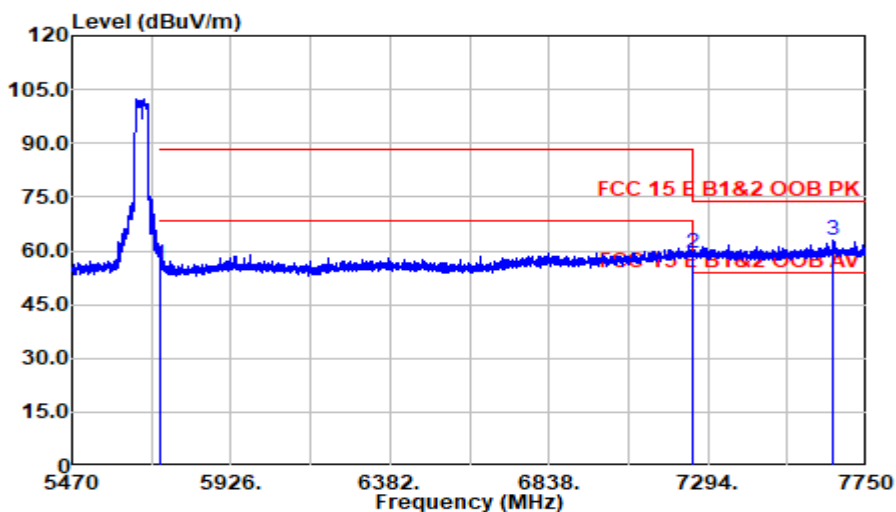
**Mode: 802.11n40 CH5670MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	37.59	33.80	8.26	34.60	45.05	68.20	23.15	Average
7250.000	38.89	36.60	9.53	34.68	50.34	54.00	3.66	Average
7645.690	39.43	36.79	9.95	34.80	51.37	54.00	2.63	Average

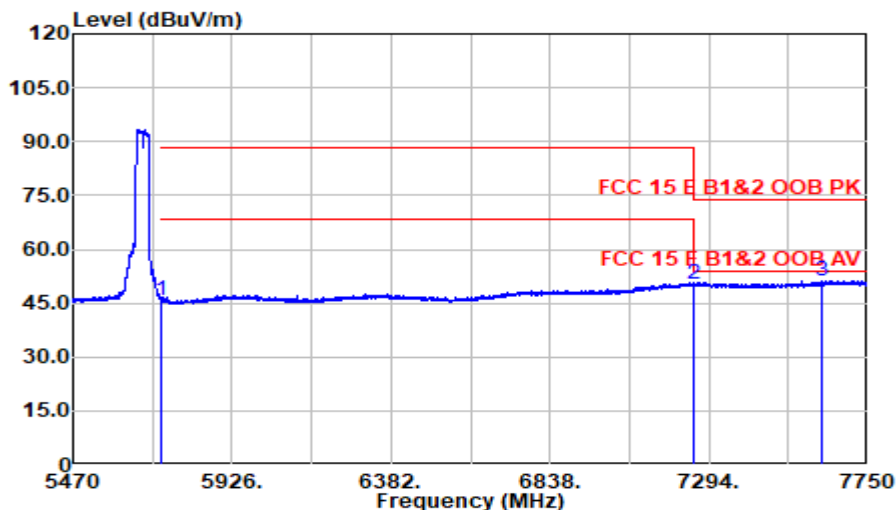
**Mode: 802.11n40 CH5670MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	48.56	33.80	8.26	34.60	56.02	88.20	32.18	Peak
7250.000	47.97	36.60	9.53	34.68	59.42	74.00	14.58	Peak
7650.820	51.15	36.80	9.96	34.80	63.11	74.00	10.89	Peak

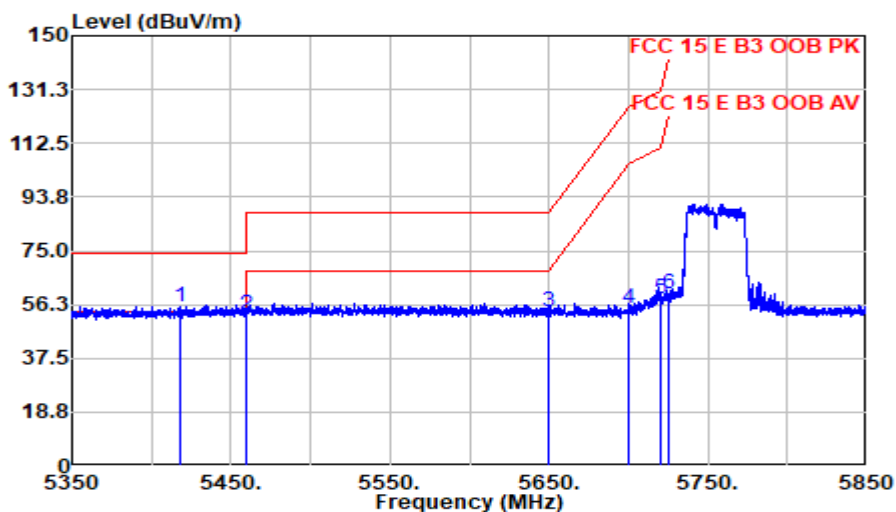
**Mode: 802.11n40 CH5670MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5725.000	38.31	33.80	8.26	34.60	45.77	68.20	22.43	Average
7250.000	38.88	36.60	9.53	34.68	50.33	54.00	3.67	Average
7618.900	39.38	36.74	9.92	34.79	51.25	54.00	2.75	Average

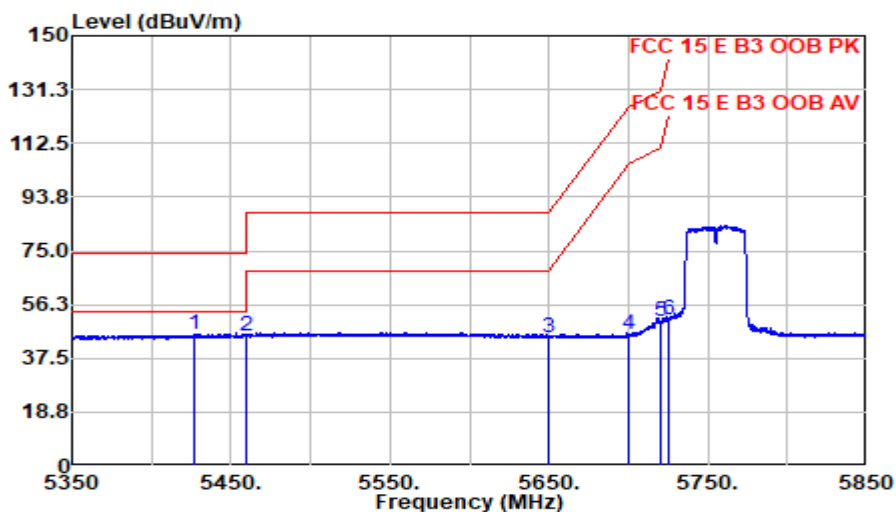
Mode: 802.11n40 CH5755MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5417.625	48.18	34.07	8.08	34.60	55.73	74.00	18.27	Peak
5460.000	44.89	34.20	8.10	34.60	52.60	74.00	21.40	Peak
5650.000	46.45	33.90	8.22	34.60	53.97	88.20	34.23	Peak
5700.000	47.30	33.80	8.25	34.60	54.75	125.20	70.45	Peak
5720.000	50.81	33.80	8.26	34.60	58.27	130.80	72.53	Peak
5725.000	52.38	33.80	8.26	34.60	59.84	142.20	82.36	Peak

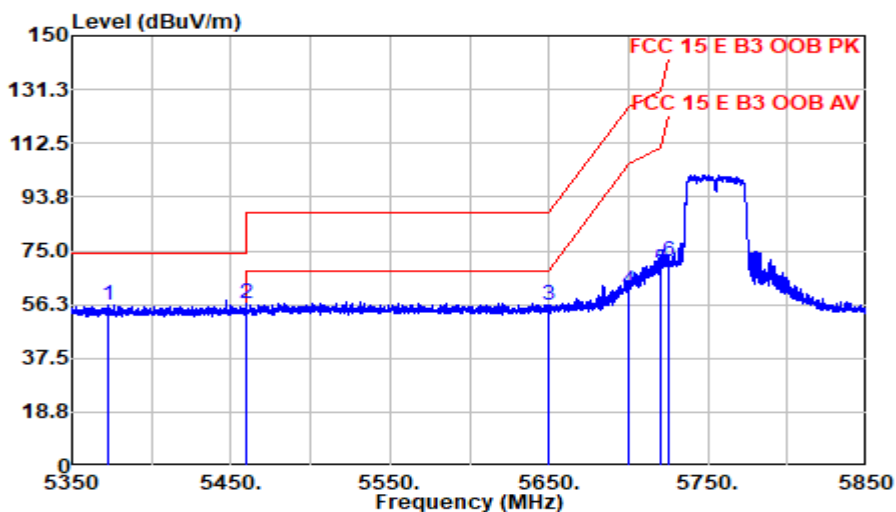
**Mode: 802.11n40 CH5755MHz**



**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5427.375	38.09	34.11	8.08	34.60	45.68	54.00	8.32	Average
5460.000	37.70	34.20	8.10	34.60	45.41	54.00	8.59	Average
5650.000	37.40	33.90	8.22	34.60	44.92	68.20	23.28	Average
5700.000	38.28	33.80	8.25	34.60	45.73	105.20	59.47	Average
5720.000	42.83	33.80	8.26	34.60	50.29	110.80	60.51	Average
5725.000	43.71	33.80	8.26	34.60	51.17	122.20	71.03	Average

**Mode: 802.11n40 CH5755MHz**

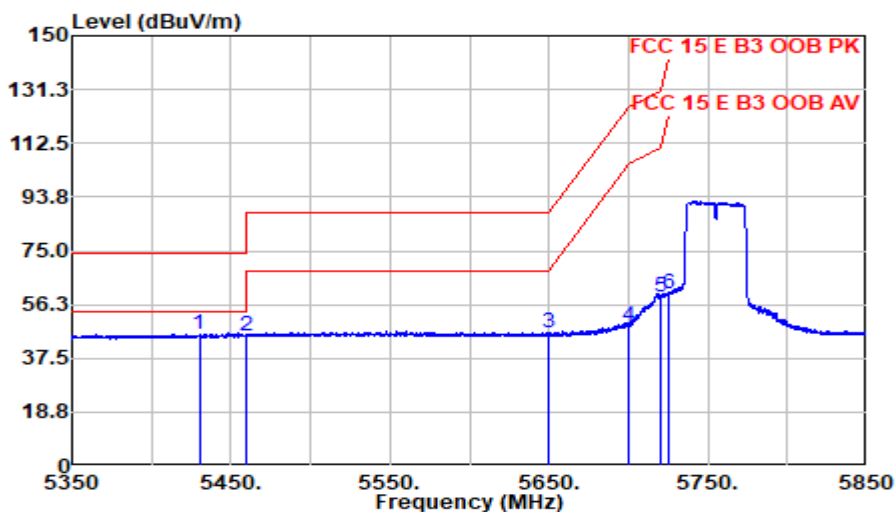


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5372.750	48.78	34.05	8.05	34.60	56.28	74.00	17.72	Peak
5460.000	48.75	34.20	8.10	34.60	56.45	74.00	17.55	Peak
5650.000	48.62	33.90	8.22	34.60	56.14	88.20	32.06	Peak
5700.000	53.80	33.80	8.25	34.60	61.24	125.20	63.96	Peak
5720.000	60.78	33.80	8.26	34.60	68.24	130.80	62.56	Peak
5725.000	64.06	33.80	8.26	34.60	71.53	142.20	70.67	Peak



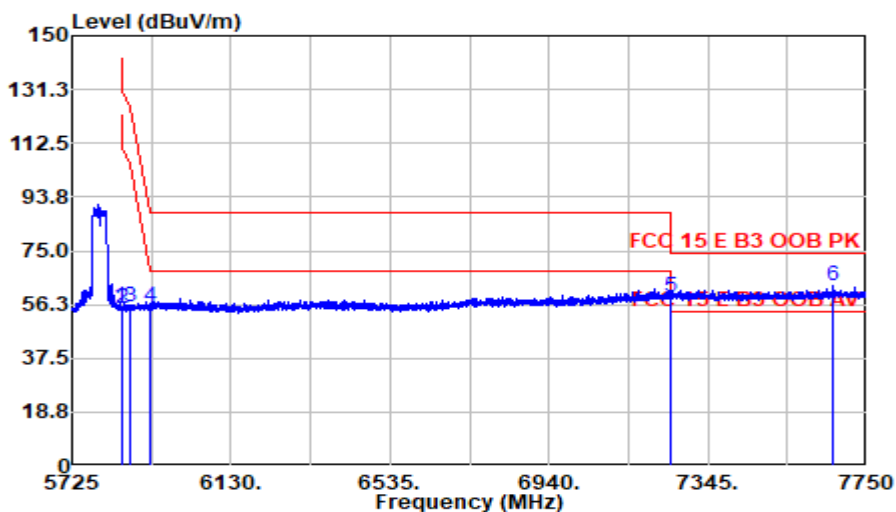
**Mode: 802.11n40 CH5755MHz**



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5430.000	38.14	34.12	8.09	34.60	45.75	54.00	8.25	Average
5460.000	37.46	34.20	8.10	34.60	45.16	54.00	8.84	Average
5650.000	38.90	33.90	8.22	34.60	46.42	68.20	21.78	Average
5700.000	41.44	33.80	8.25	34.60	48.89	105.20	56.31	Average
5720.000	51.54	33.80	8.26	34.60	59.00	110.80	51.80	Average
5725.000	52.61	33.80	8.26	34.60	60.08	122.20	62.12	Average

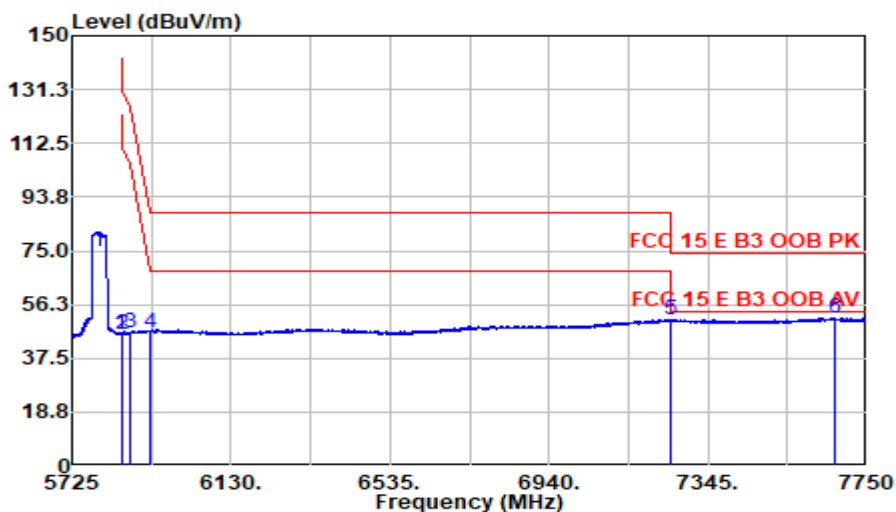
**Mode: 802.11n40 CH5795MHz**



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	47.66	33.80	8.34	34.60	55.19	142.20	87.01	Peak
5855.000	47.37	33.83	8.34	34.60	54.94	130.80	75.86	Peak
5875.000	47.57	33.95	8.35	34.60	55.27	125.20	69.93	Peak
5925.000	47.57	34.10	8.38	34.60	55.45	88.20	32.75	Peak
7250.000	47.64	36.60	9.53	34.68	59.09	74.00	14.91	Peak
7664.444	50.81	36.80	9.97	34.80	62.77	74.00	11.23	Peak

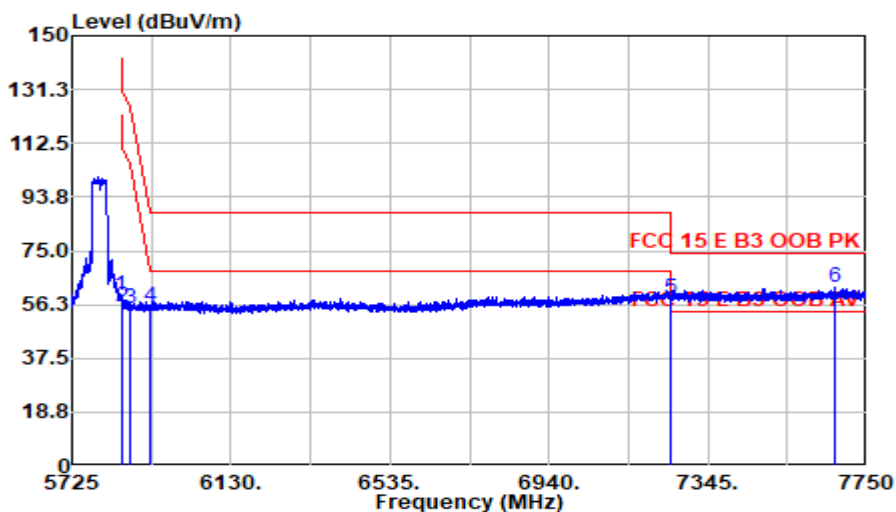
Mode: 802.11n40 CH5795MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	38.40	33.80	8.34	34.60	45.93	122.20	76.27	Average
5855.000	38.40	33.83	8.34	34.60	45.96	110.80	64.84	Average
5875.000	38.60	33.95	8.35	34.60	46.30	105.20	58.90	Average
5925.000	38.80	34.10	8.38	34.60	46.68	68.20	21.52	Average
7250.000	39.24	36.60	9.53	34.68	50.69	54.00	3.31	Average
7670.013	39.60	36.80	9.98	34.81	51.57	54.00	2.43	Average

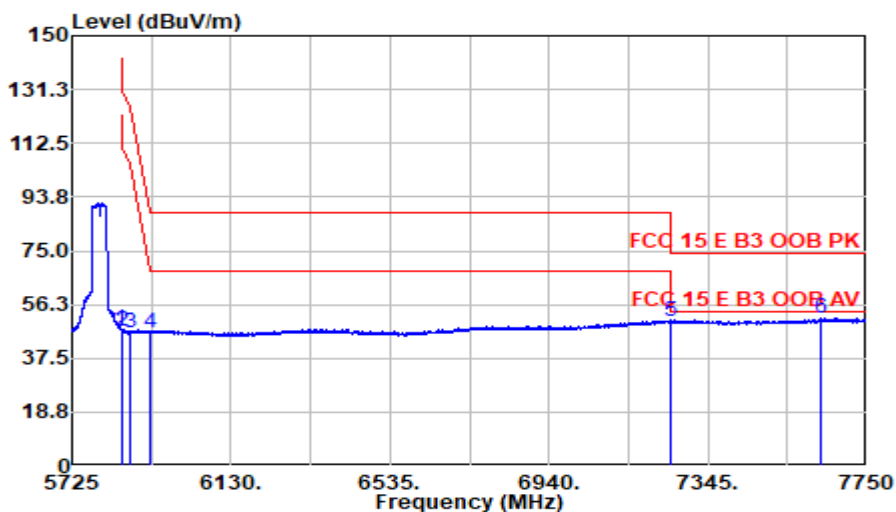
Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	51.84	33.80	8.34	34.60	59.37	142.20	82.83	Peak
5855.000	47.92	33.83	8.34	34.60	55.49	130.80	75.31	Peak
5875.000	47.18	33.95	8.35	34.60	54.88	125.20	70.32	Peak
5925.000	47.86	34.10	8.38	34.60	55.74	88.20	32.46	Peak
7250.000	46.90	36.60	9.53	34.68	58.35	74.00	15.65	Peak
7669.000	50.02	36.80	9.97	34.81	61.99	74.00	12.01	Peak

Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (mV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (mV/m)	Limits dB (mV/m)	Margin (dB)	Remark
5850.000	39.94	33.80	8.34	34.60	47.48	122.20	74.72	Average
5855.000	39.58	33.83	8.34	34.60	47.15	110.80	63.65	Average
5875.000	38.76	33.95	8.35	34.60	46.46	105.20	58.74	Average
5925.000	38.63	34.10	8.38	34.60	46.51	68.20	21.69	Average
7250.000	38.99	36.60	9.53	34.68	50.44	54.00	3.56	Average
7635.081	39.78	36.77	9.94	34.80	51.69	54.00	2.31	Average

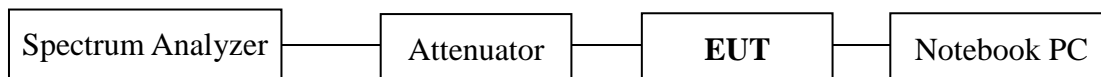
## 6 6 dB&99% BANDWIDTH MEASUREMENT

### 6.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

### 6.2 Block Diagram of Test Setup



### 6.3 Specification Limits (§15.407(e))

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

### 6.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

### 6.5 Test Procedure

#### For 6 dB Bandwidth:

The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

The test procedure is defined in KDB789033 D02 (the clause II.C.2 Measurement Procedure “ Minimum Emission Bandwidth for the band 5.725–5.85 GHz” was used).

#### For 99% Bandwidth:

The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW.

4. Set VBW  $\geq 3 \times$  RBW.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

The test procedure is defined in KDB789033 D02 (the clause II.D Measurement Procedure “99% Occupied Bandwidth” was used).

## 6.6 Test Results

### **PASSED.**

All the test results are attached in next pages.

(Test Date: 2023.11.14-12.06 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11a	149	5745	<b>16.4</b>	500 kHz
	157	5785	<b>16.44</b>	500 kHz
	165	5825	<b>16.44</b>	500 kHz
802.11n20	149	5745	<b>17.65</b>	500 kHz
	157	5785	<b>17.64</b>	500 kHz
	165	5825	<b>17.64</b>	500 kHz
802.11n40	151	5755	<b>36.35</b>	500 kHz
	159	5795	<b>36.36</b>	500 kHz

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11a	36	5180	<b>17.414</b>	N/A
	40	5200	<b>17.414</b>	N/A
	48	5240	<b>17.469</b>	N/A
	52	5260	<b>17.419</b>	N/A
	60	5300	<b>17.411</b>	N/A
	64	5320	<b>17.433</b>	N/A
	100	5500	<b>17.466</b>	N/A
	120	5600	<b>17.403</b>	N/A
	140	5700	<b>17.495</b>	N/A
	149	5745	<b>17.419</b>	N/A
	157	5785	<b>17.453</b>	N/A
	165	5825	<b>17.466</b>	N/A



Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n20	36	5180	<b>18.45</b>	N/A
	40	5200	<b>18.425</b>	N/A
	48	5240	<b>18.321</b>	N/A
	52	5260	<b>18.403</b>	N/A
	60	5300	<b>18.357</b>	N/A
	64	5320	<b>18.322</b>	N/A
	100	5500	<b>18.415</b>	N/A
	120	5600	<b>18.421</b>	N/A
	140	5700	<b>18.422</b>	N/A
	149	5745	<b>18.488</b>	N/A
	157	5785	<b>18.46</b>	N/A
	165	5825	<b>18.497</b>	N/A

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n40	38	5190	<b>36.519</b>	N/A
	46	5230	<b>36.579</b>	N/A
	54	5270	<b>36.5</b>	N/A
	62	5310	<b>36.487</b>	N/A
	102	5510	<b>36.531</b>	N/A
	118	5590	<b>36.54</b>	N/A
	134	5670	<b>36.497</b>	N/A
	151	5755	<b>36.79</b>	N/A
	159	5795	<b>36.625</b>	N/A

**6 dB Bandwidth:**

**802.11a**

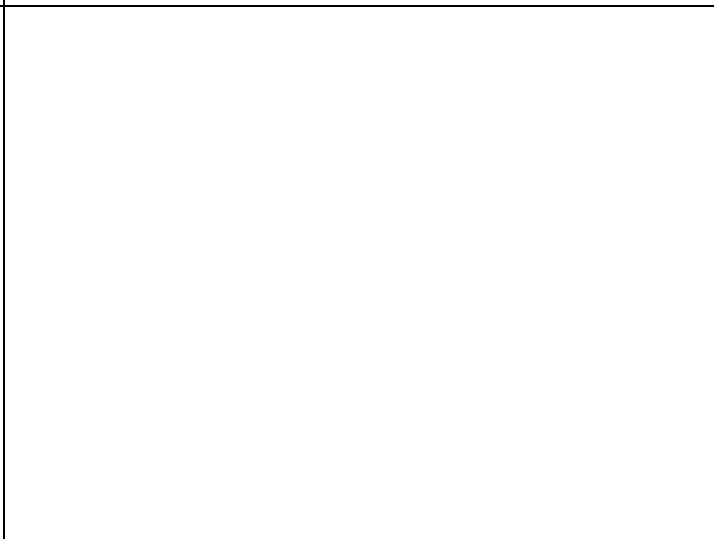
**Band-UNII-3**

**CH5745**

**CH5785**



**CH5825**

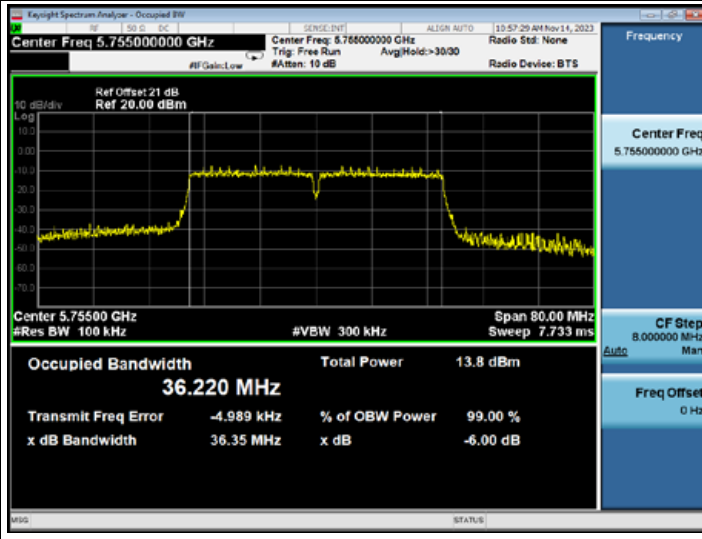




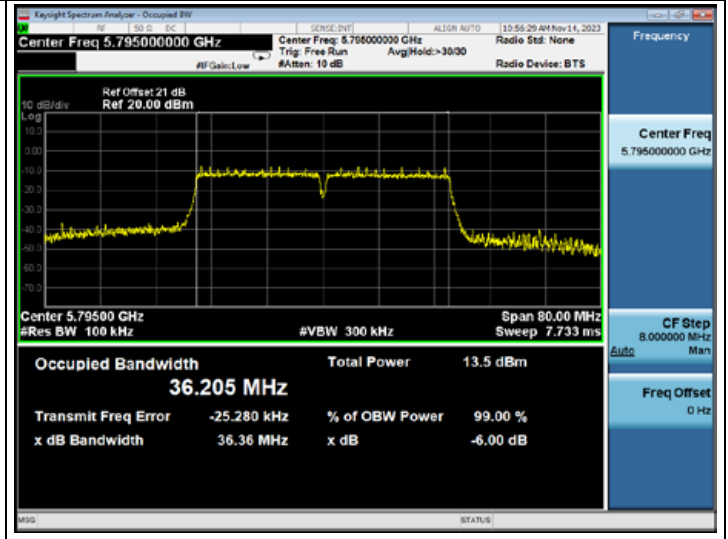
802.11n40

Band-UNII-3

CH5755



CH5795



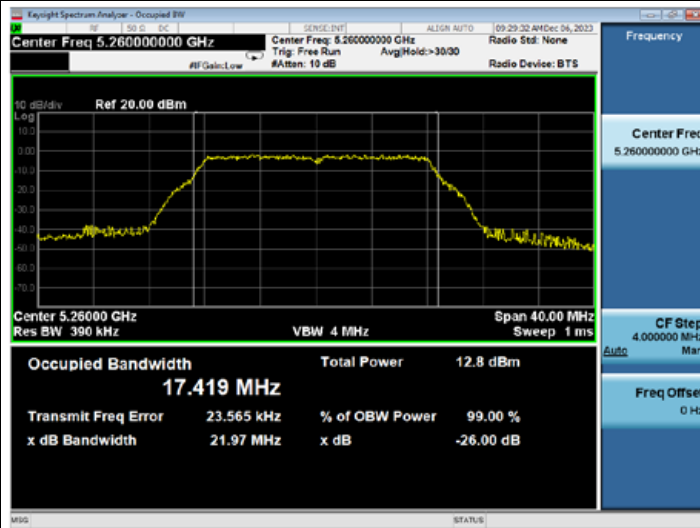
**99% Bandwidth:**

<b>802.11a</b>	
<b>Band-UNII-1</b>	
<b>CH5180</b>	<b>CH5200</b>
<p>Center Freq: 5.18000000 GHz          Res BW: 390 kHz          Span: 40.00 MHz          Occupied Bandwidth: 17.414 MHz          Total Power: 14.0 dBm          Transmit Freq Error: 26.097 kHz          % of OBW Power: 99.00 %          x dB Bandwidth: 21.78 MHz</p>	<p>Center Freq: 5.20000000 GHz          Res BW: 390 kHz          Span: 40.00 MHz          Occupied Bandwidth: 17.414 MHz          Total Power: 14.2 dBm          Transmit Freq Error: 7.563 kHz          % of OBW Power: 99.00 %          x dB Bandwidth: 21.82 MHz</p>
<b>CH5240</b>	
<p>Center Freq: 5.24000000 GHz          Res BW: 390 kHz          Span: 40.00 MHz          Occupied Bandwidth: 17.469 MHz          Total Power: 14.2 dBm          Transmit Freq Error: 4.859 kHz          % of OBW Power: 99.00 %          x dB Bandwidth: 21.72 MHz</p>	

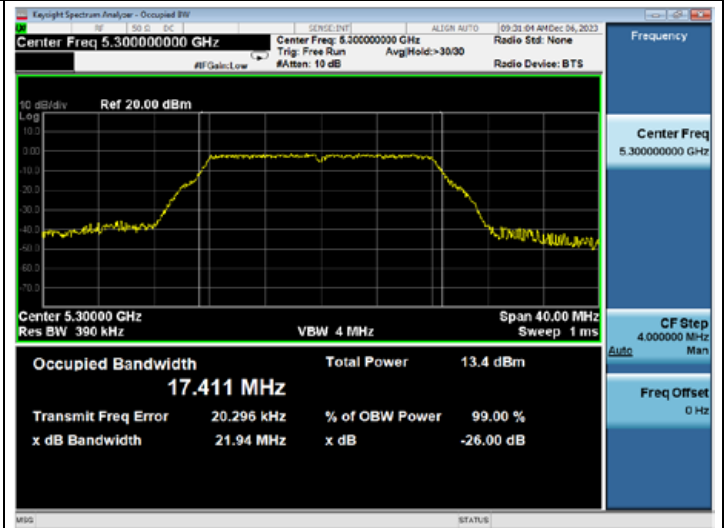
802.11a

Band-UNII-2A

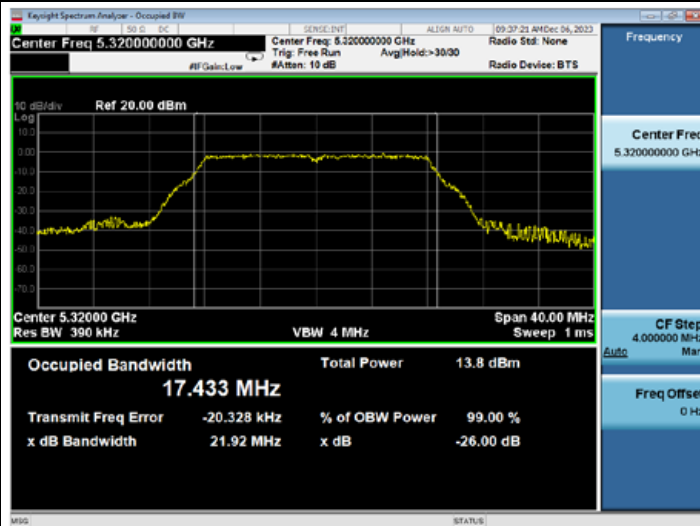
CH5260



CH5300



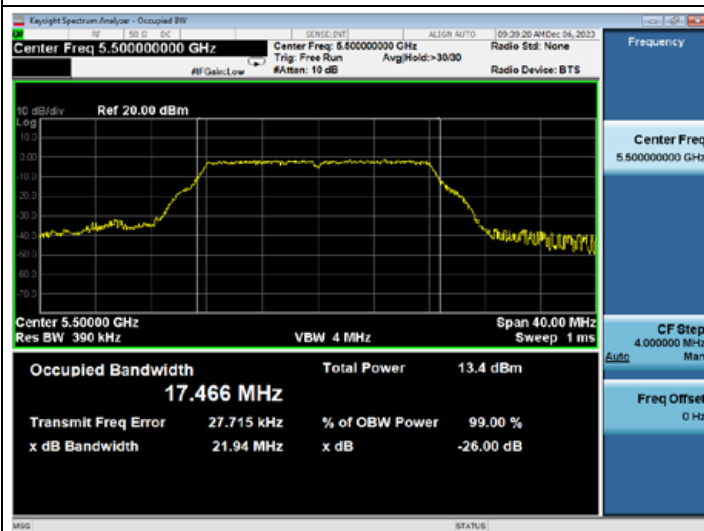
CH5320



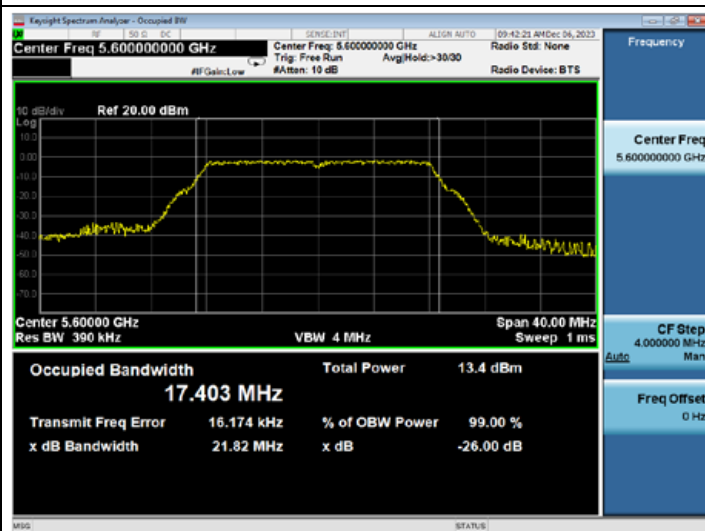
802.11a

Band-UNII-2C

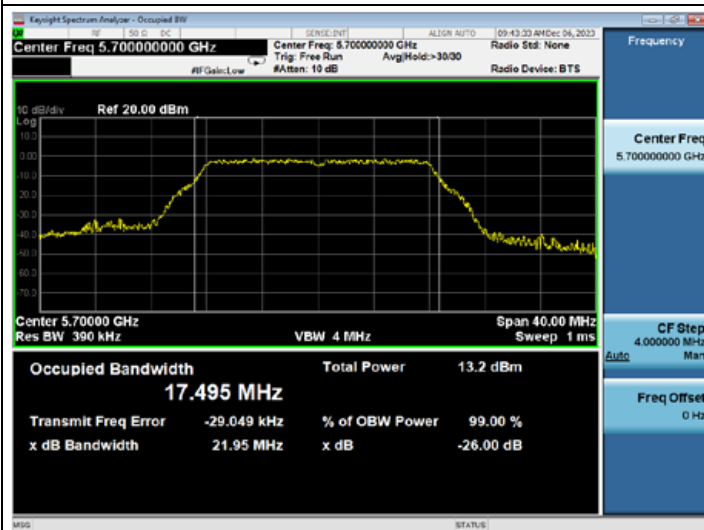
CH5500



CH5600



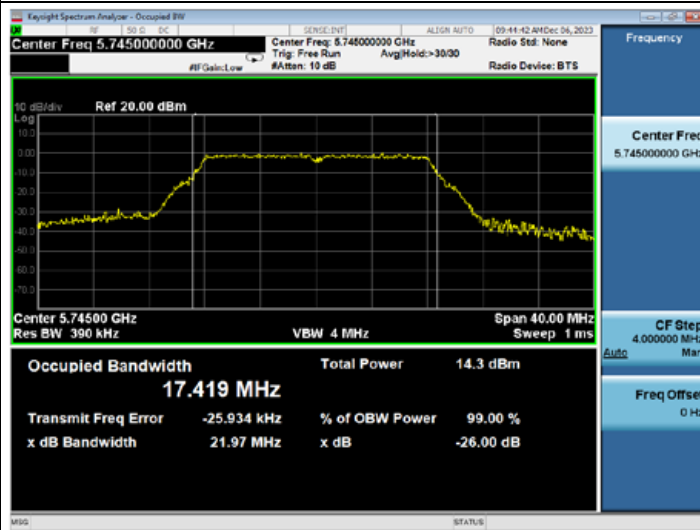
CH5700



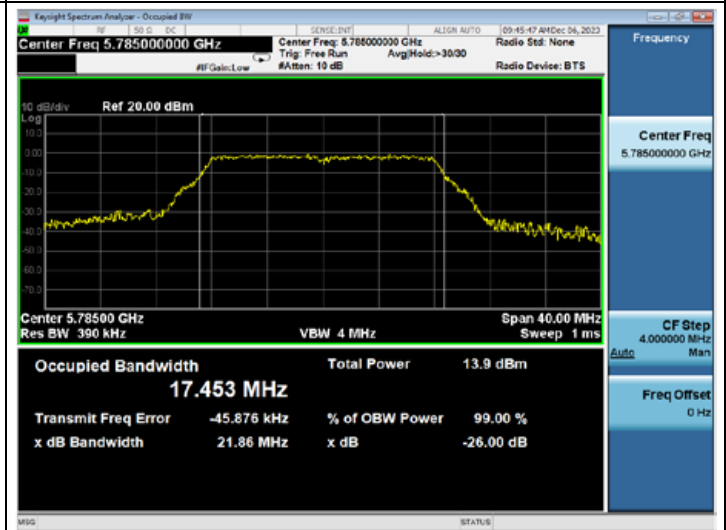
802.11a

Band-UNII-3

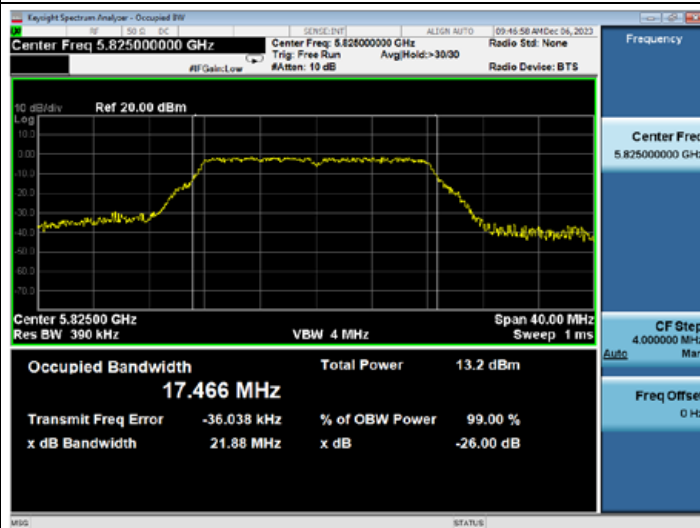
CH5745



CH5785



CH5825

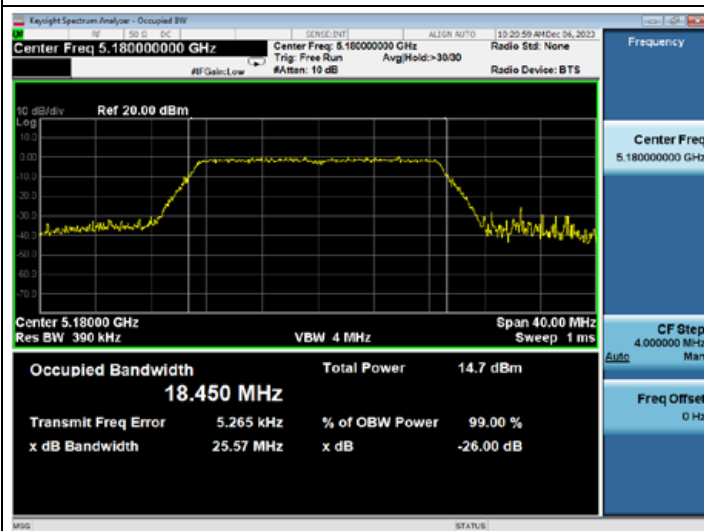




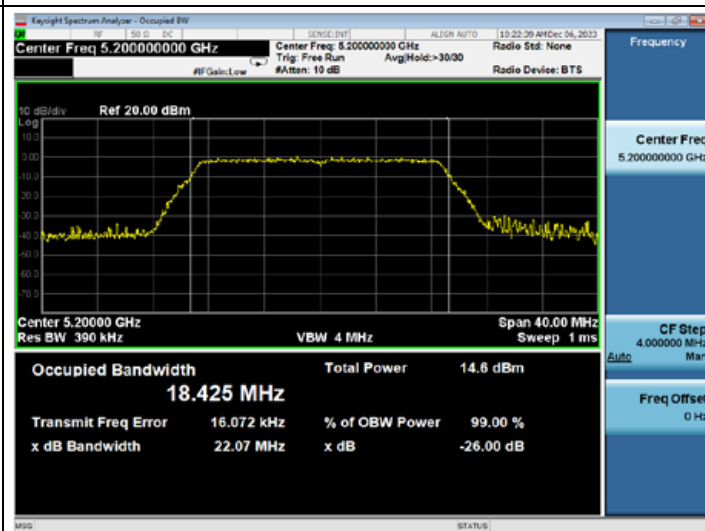
802.11n20

Band-UNII-1

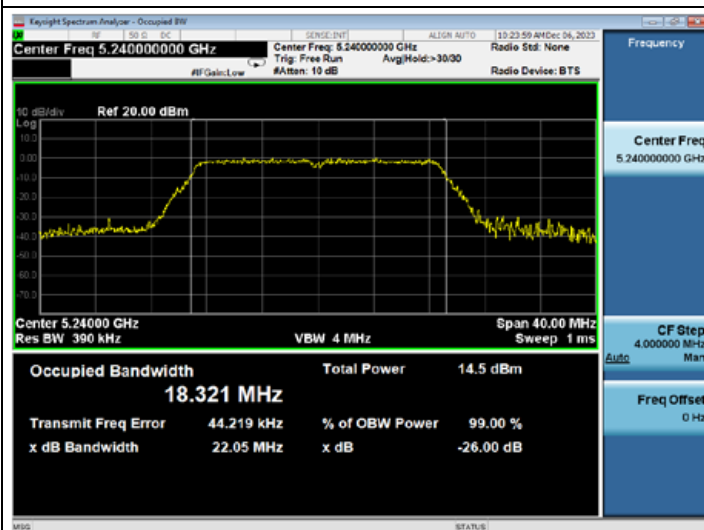
CH5180



CH5200



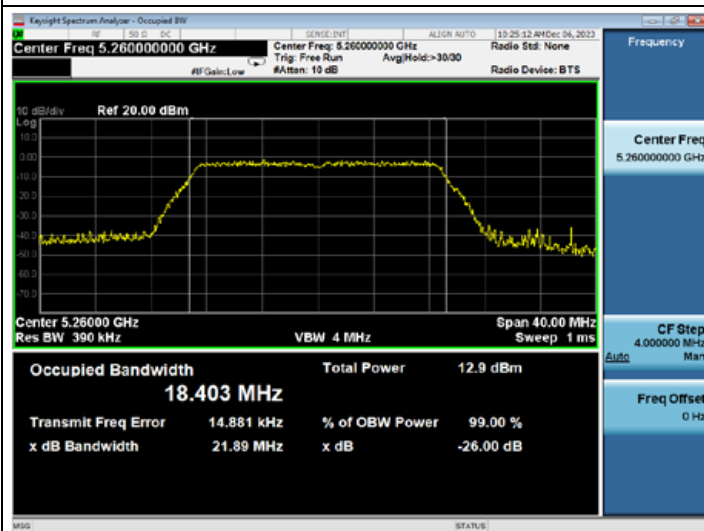
CH5240



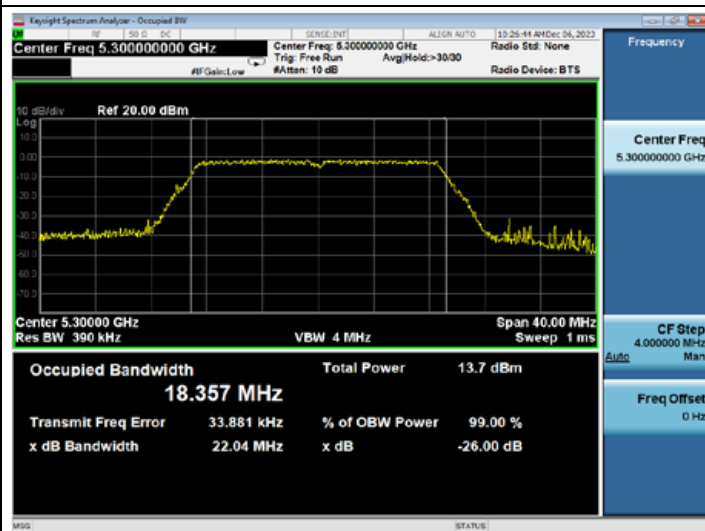
802.11n20

Band-UNII-2A

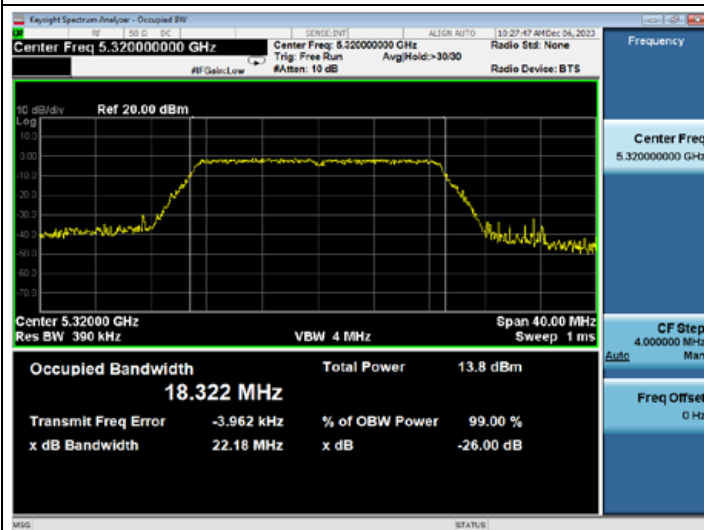
CH5260



CH5300



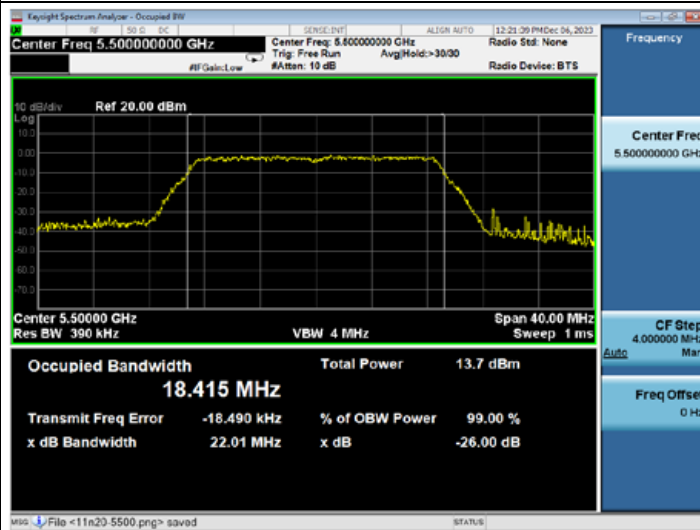
CH5320



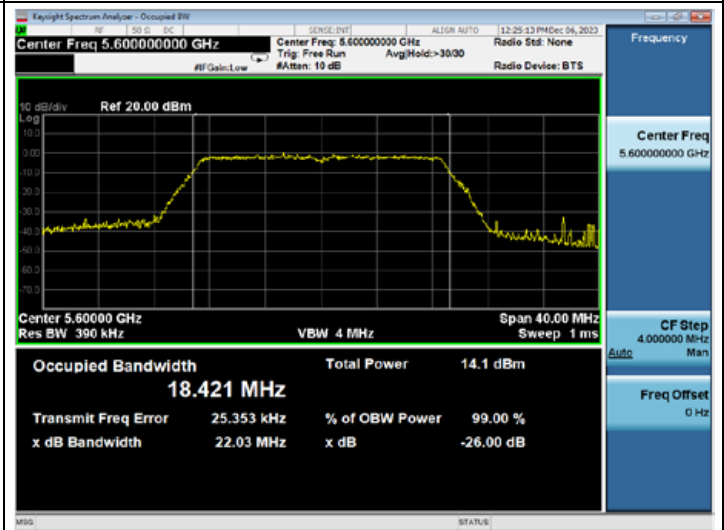
802.11n20

Band-UNII-2C

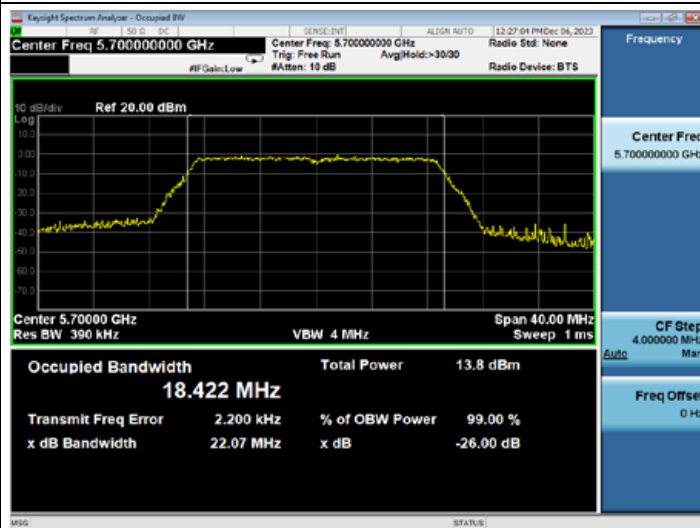
CH5500



CH5600



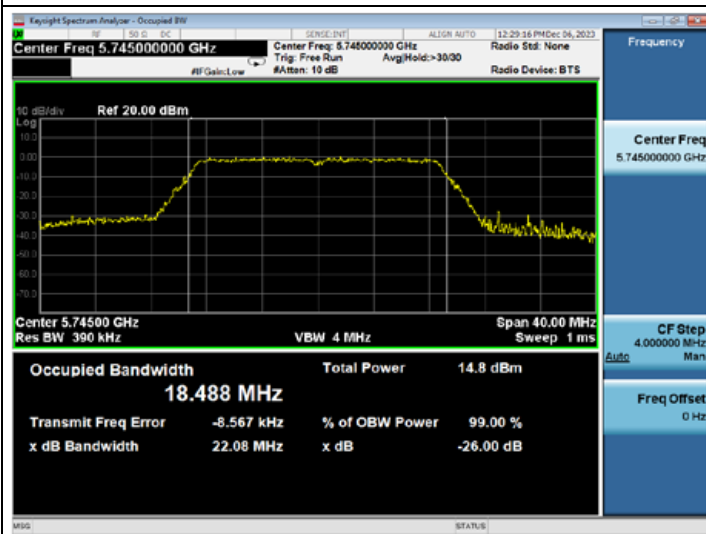
CH5700



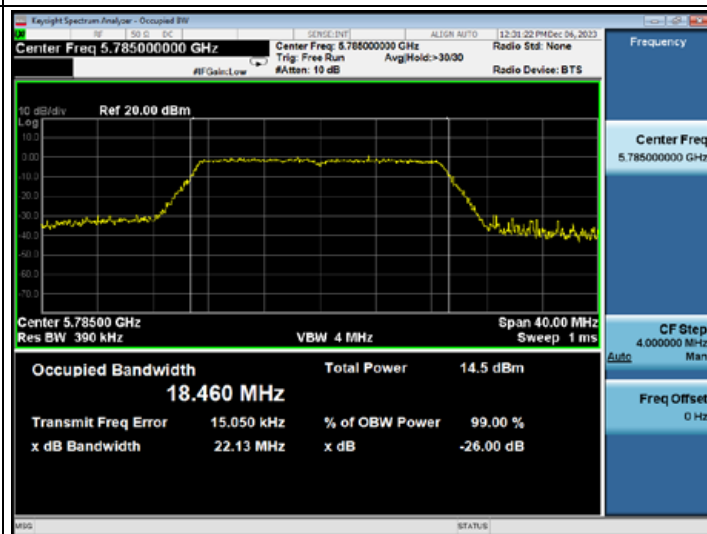
802.11n20

Band-UNII-3

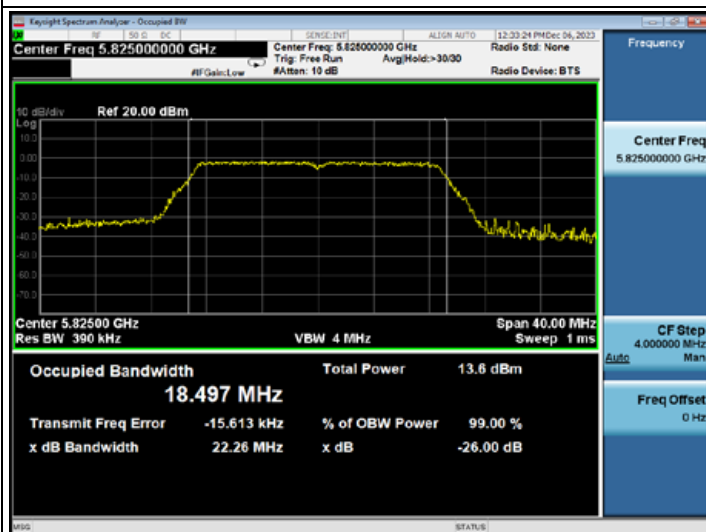
CH5745



CH5785



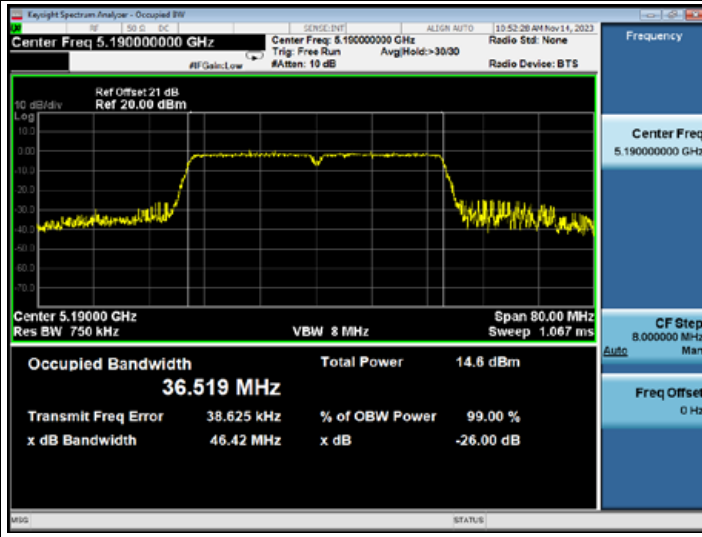
CH5825



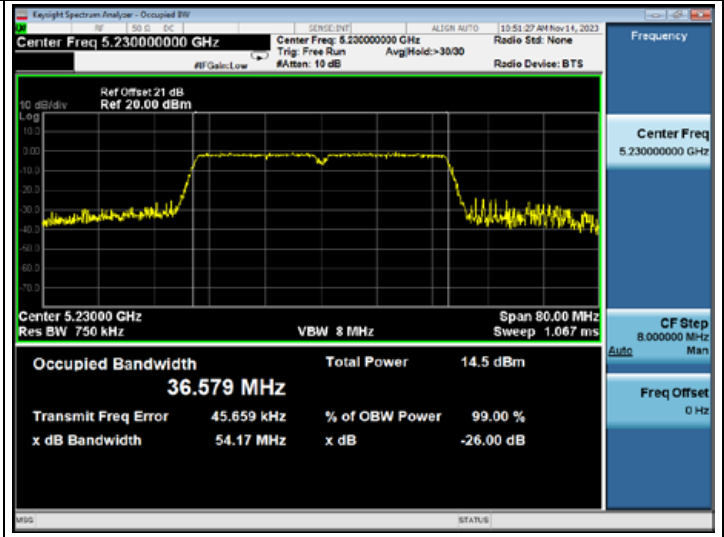
802.11n40

Band-UNII-1

CH5190



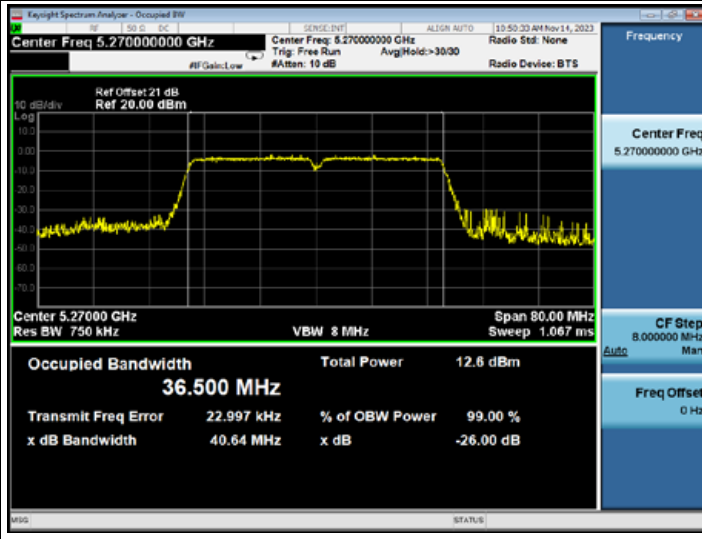
CH5230



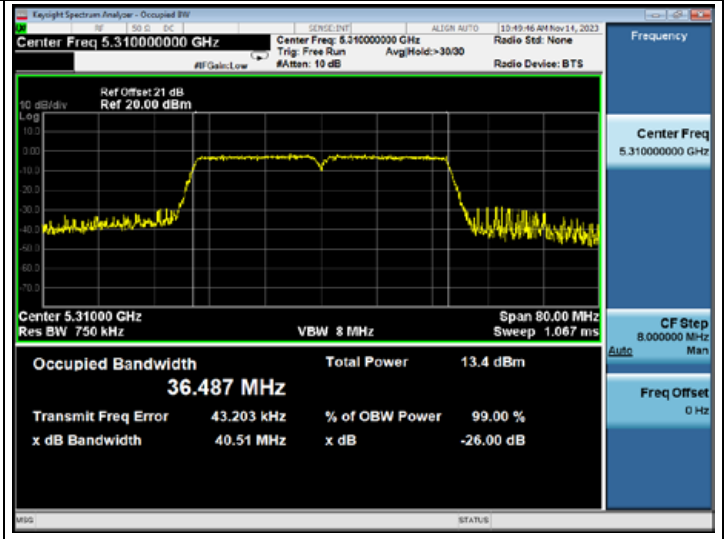
802.11n40

Band-UNII-2A

CH5270



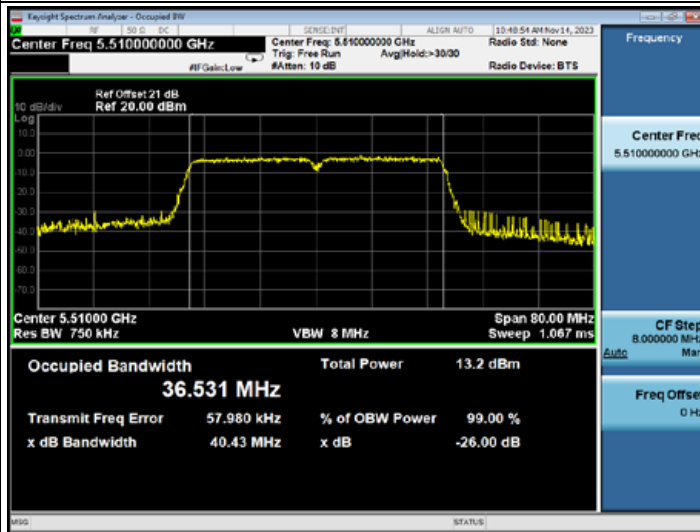
CH5310



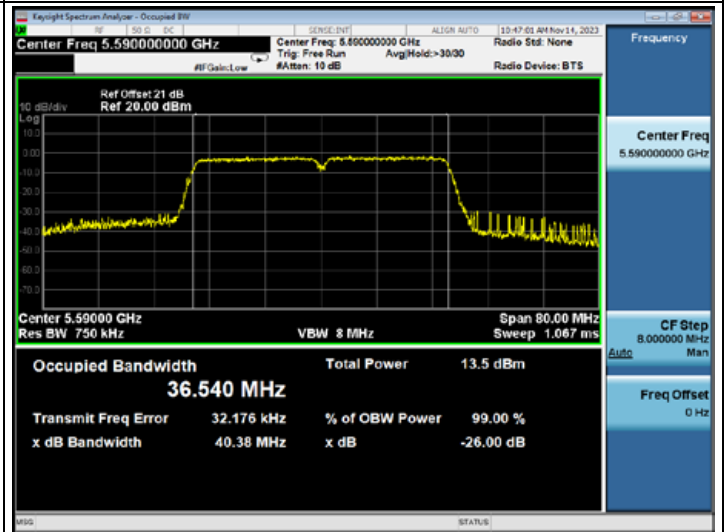
802.11n40

Band-UNII-2C

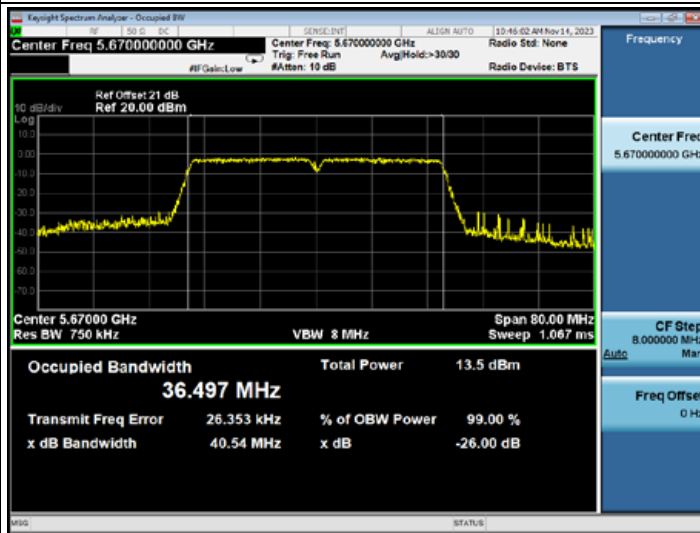
CH5510



CH5590



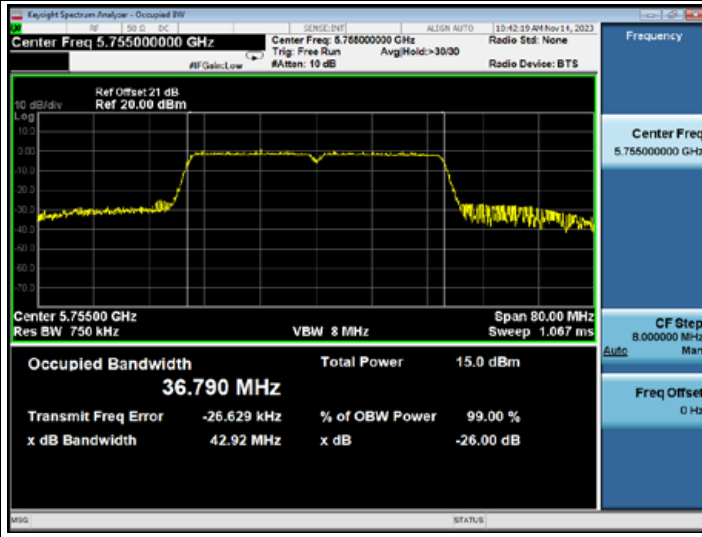
CH5670



802.11n40

Band-UNII-3

CH5755



CH5795

