



# FCC RF Test Report

**APPLICANT** : Honeywell International Inc  
**EQUIPMENT** : mobile computer  
**BRAND NAME** : Honeywell  
**MODEL NAME** : CT37X0N  
**FCC ID** : HD5-CT37X0N  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System  
**TEST DATE(S)** : Aug. 12, 2024 ~ Aug. 23, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



# TABLE OF CONTENTS

**REVISION HISTORY..... 3**

**SUMMARY OF TEST RESULT ..... 4**

**1 GENERAL DESCRIPTION ..... 5**

    1.1 Applicant ..... 5

    1.2 Manufacturer ..... 5

    1.3 Product Feature of Equipment Under Test..... 5

    1.4 Product Specification of Equipment Under Test..... 5

    1.5 Modification of EUT ..... 6

    1.6 Testing Location ..... 6

    1.7 Test Software..... 6

    1.8 Applicable Standards..... 7

**2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 8**

    2.1 Carrier Frequency and Channel ..... 8

    2.2 Test Mode..... 9

    2.3 Connection Diagram of Test System..... 9

    2.4 Support Unit used in test configuration and system ..... 9

    2.5 EUT Operation Test Setup ..... 9

    2.6 Measurement Results Explanation Example..... 10

**3 TEST RESULT..... 11**

    3.1 6dB Bandwidth Measurement ..... 11

    3.2 Output Power Measurement..... 24

    3.3 Conducted Band Edges Measurement..... 28

    3.4 Radiated Band Edges and Spurious Emission Measurement ..... 41

    3.5 Antenna Requirements ..... 45

**4 LIST OF MEASURING EQUIPMENT ..... 47**

**5 MEASUREMENT UNCERTAINTY ..... 48**

**APPENDIX A. RADIATED SPURIOUS EMISSION**

**APPENDIX B. DUTY CYCLE PLOTS**

**APPENDIX C. SETUP PHOTOGRAPHS**



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR461913-01C	Rev. 01	Initial issue of report	Aug. 26, 2024



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
3.4	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 5.49 dB at 2386.96 MHz
3.5	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

**Note:** This is a variant report for CT37X0N, the change note could be referred to the CT37X0N\_Operational Description of Product Equality Declaration which is exhibit separately. According to the change, only the related test cases were verified from original report FR461913C.

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Honeywell International Inc  
9680 Old Bailes Rd, Fort Mill, SC 29707

## 1.2 Manufacturer

Honeywell International Inc  
9680 Old Bailes Rd, Fort Mill, SC 29707

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	mobile computer
Brand Name	Honeywell
Model Name	CT37X0N
FCC ID	HD5-CT37X0N
SN	Conducted: 24211X0009 Radiation: 24211X016C
HW Version	V1.0
SW Version	514 03.00.0273-N-DEBUG- FIMG
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	<MIMO Ant 6+7> 802.11b : 24.72 dBm (0.2965 W) 802.11g : 27.80 dBm (0.6026 W) 802.11n HT20 : 27.12 dBm (0.5152 W) 802.11n HT40 : 25.75 dBm (0.3758 W) 802.11ax HE20 : 28.38 dBm (0.6887 W) 802.11ax HE40 : 26.75 dBm (0.4732 W)
Antenna Type / Gain	ANT6: LDS Antenna type with gain 1.5 dBi ANT7: LDS Antenna type with gain 1.1 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

**Note:**

- The device supports Tx Beamforming mode, and the Tx Beamforming power/EIRP is not greater than CDD mode, so we only evaluate CDD mode by referring to their maximum conducted power..



- 2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher output power.
- 3. For 802.11n & 11ax mode, the whole testing have assessed only 802.11ax by referring to the higher output power for RSE testing.
- 4. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full, and partial RU verify PSD/ bandedge/spurious.

### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH06-KS TH01-KS	CN1257	314309

### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH06-KS	AUDIX	E3	210616



## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

### **Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-



## 2.2 Test Mode

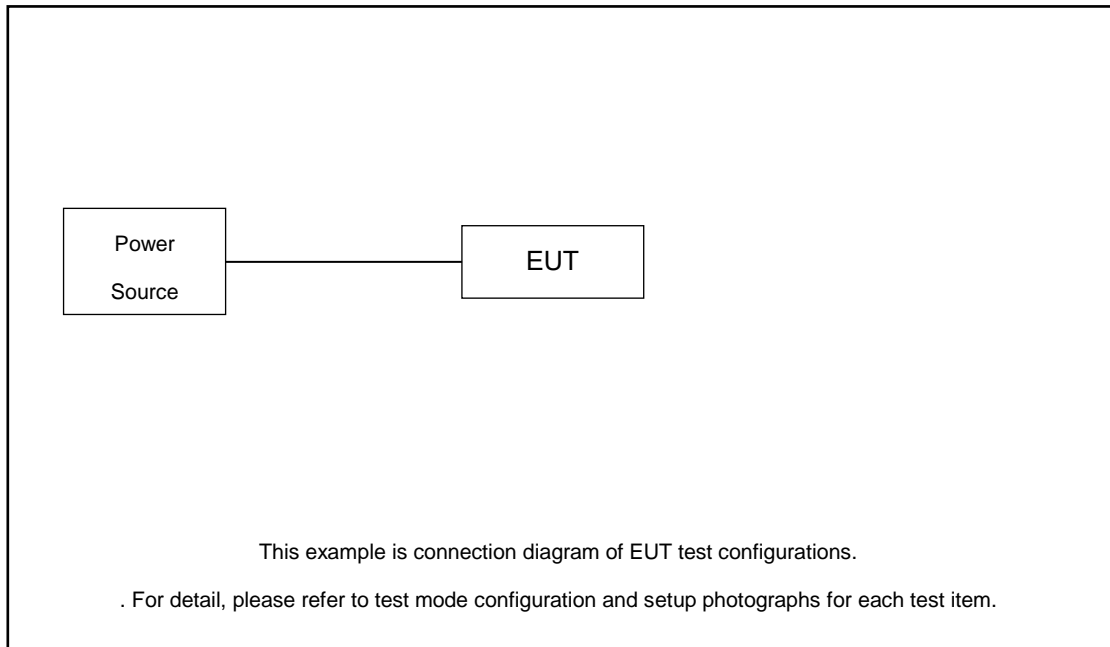
Final test modes are considering the modulation and worse data rates as below table.

### MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0

## 2.3 Connection Diagram of Test System

For radiated emission:



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	USB Cable	N/A	N/A	N/A	N/A	N/A
2.	Adapter	N/A	N/A	N/A	N/A	N/A

## 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.



## **2.6 Measurement Results Explanation Example**

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 0.80 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 0.80 + 10 = 10.80 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB Bandwidth Measurement

##### 3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

##### 3.1.4 Test Setup



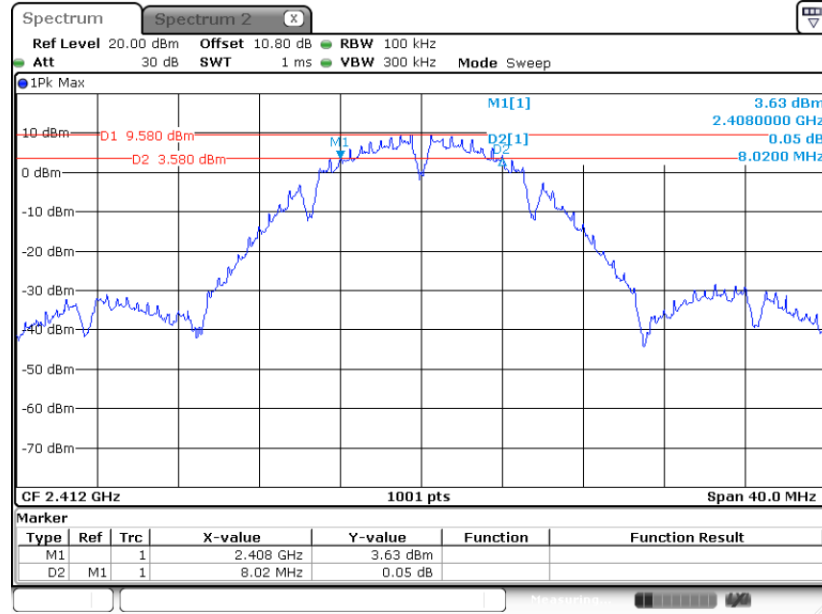


### 3.1.5 Test Result of 6dB Bandwidth

Number of TX = 2, Ant. 6

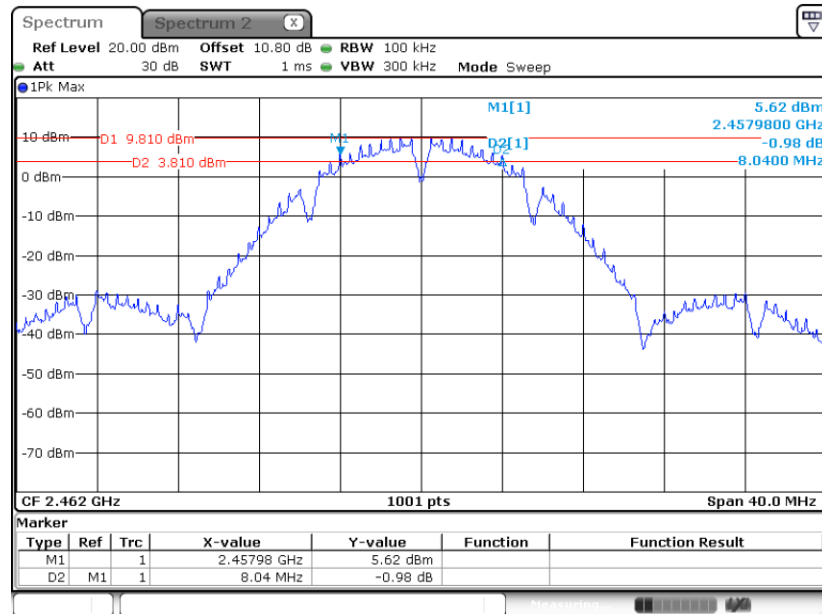
Test Mode :	802.11b
-------------	---------

#### 6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 17:47:01

#### 6 dB Bandwidth Plot on Channel 11

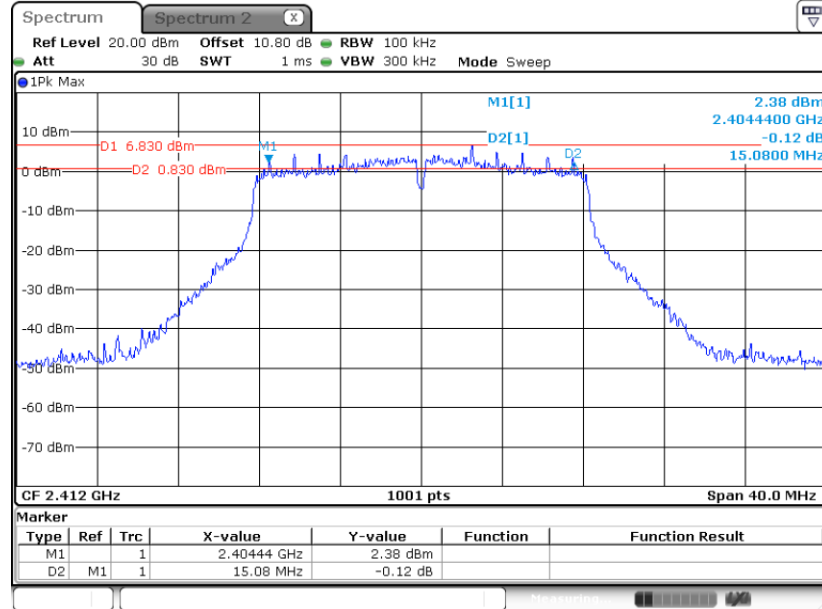


Date: 23.AUG.2024 17:48:38



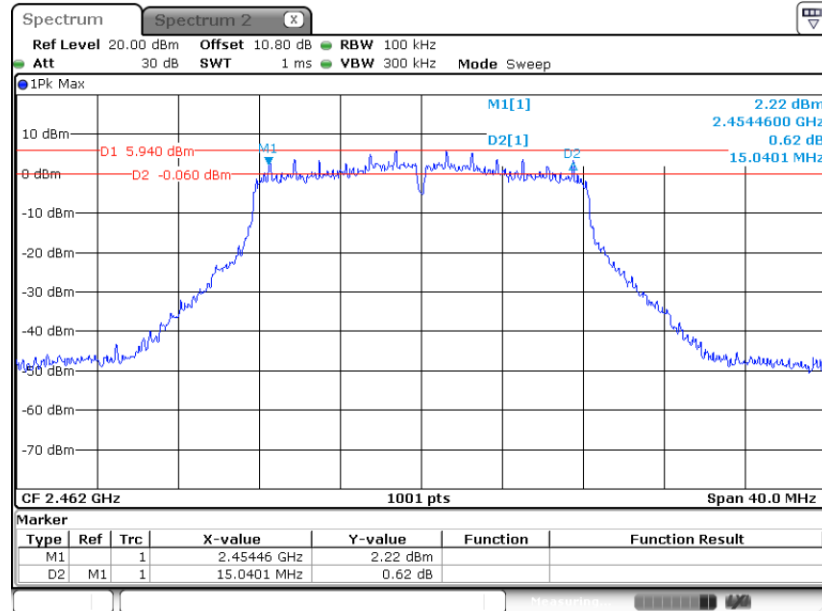
Test Mode : 802.11g

6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 17:50:25

6 dB Bandwidth Plot on Channel 11

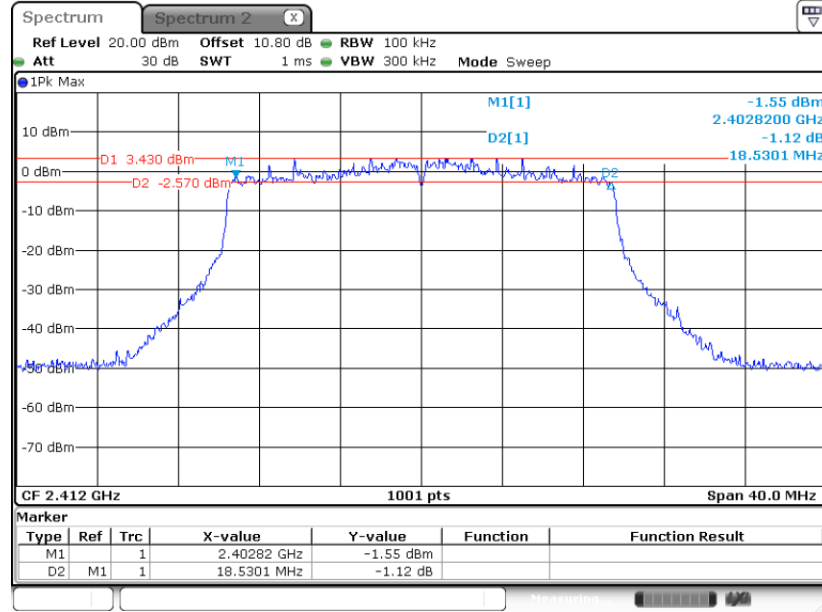


Date: 23.AUG.2024 17:51:51



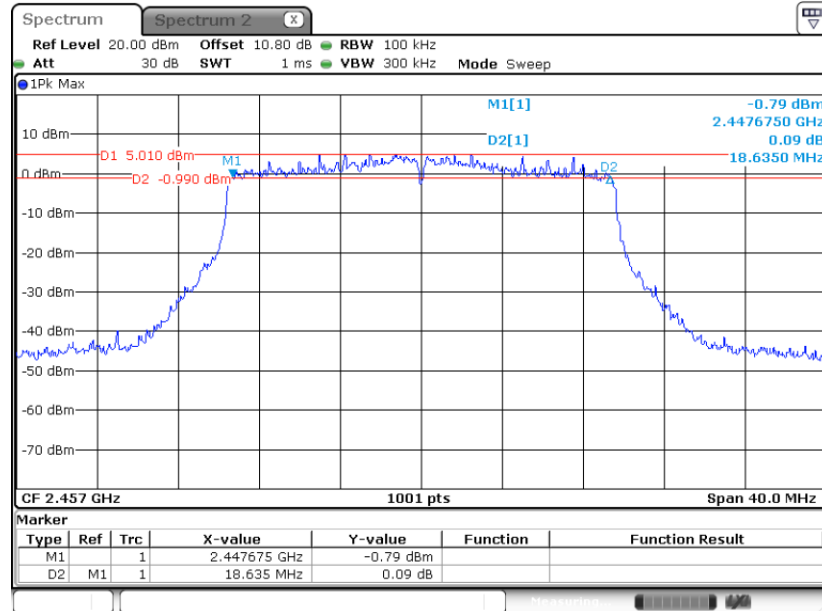
Test Mode : 802.11ax HE20

6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 17:54:03

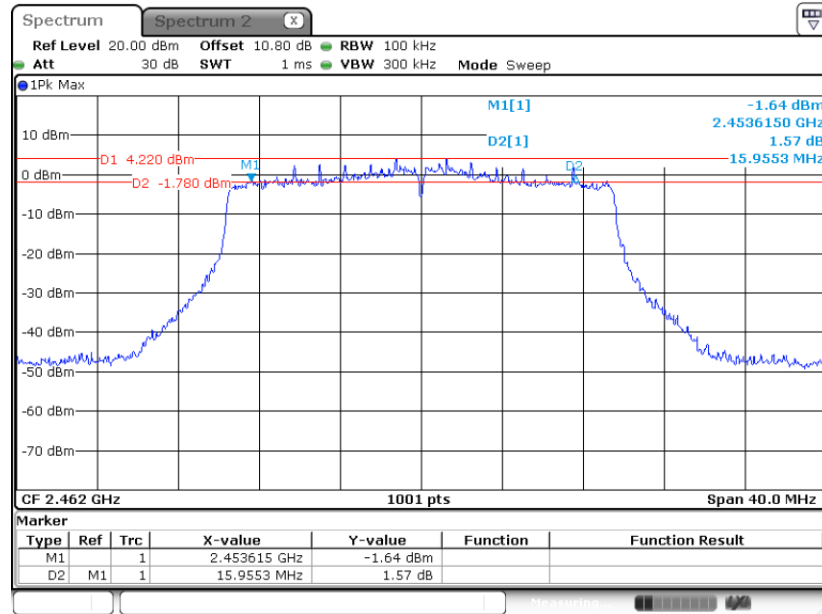
6 dB Bandwidth Plot on Channel 10



Date: 23.AUG.2024 17:55:31



6 dB Bandwidth Plot on Channel 11

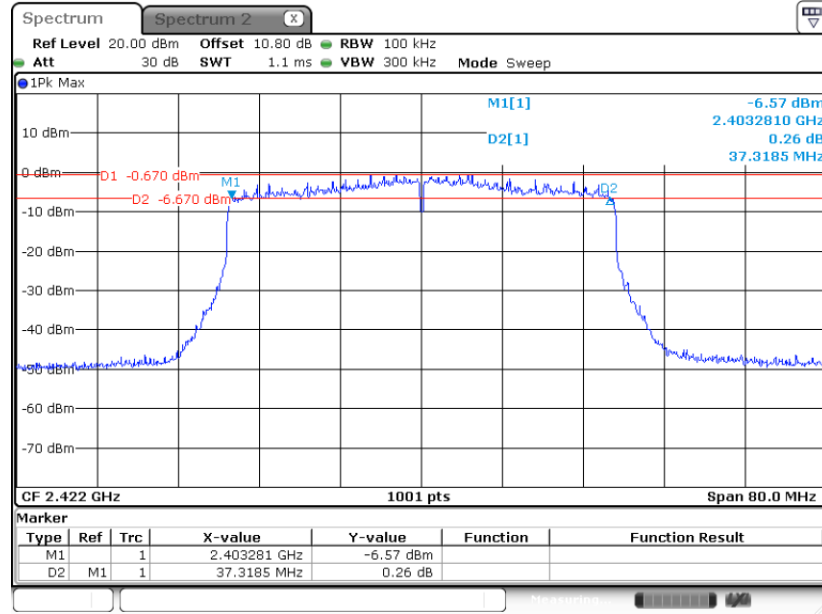


Date: 23.AUG.2024 17:57:24



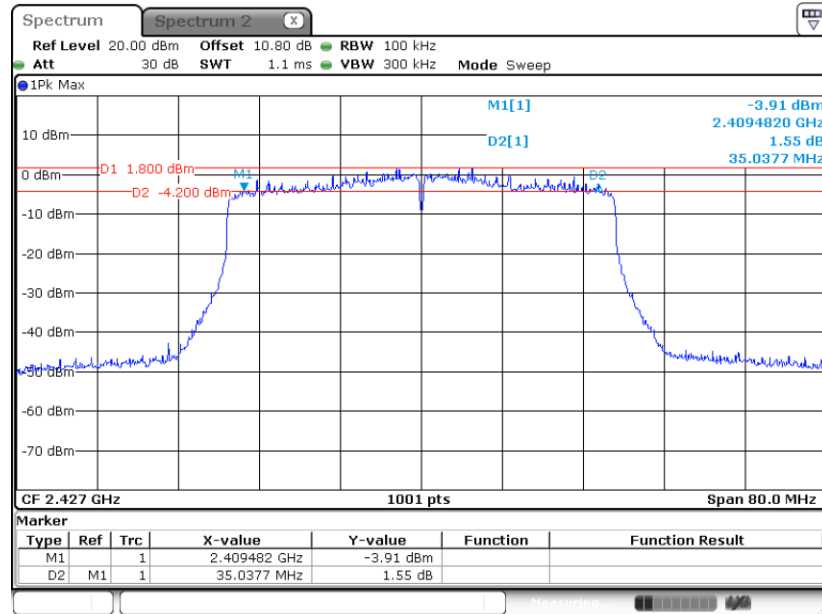
Test Mode : 802.11ax HE40

6 dB Bandwidth Plot on Channel 3



Date: 23.AUG.2024 18:01:18

6 dB Bandwidth Plot on Channel 4

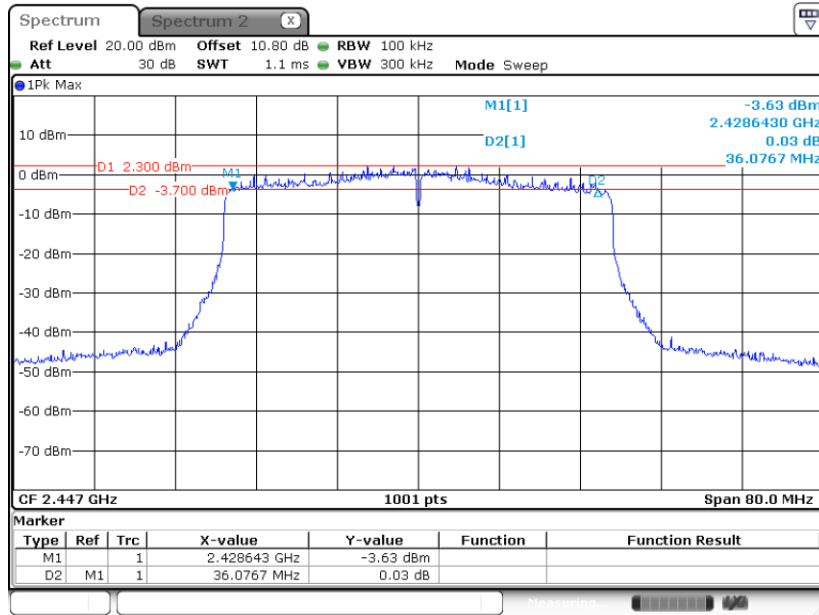


Date: 23.AUG.2024 18:02:39



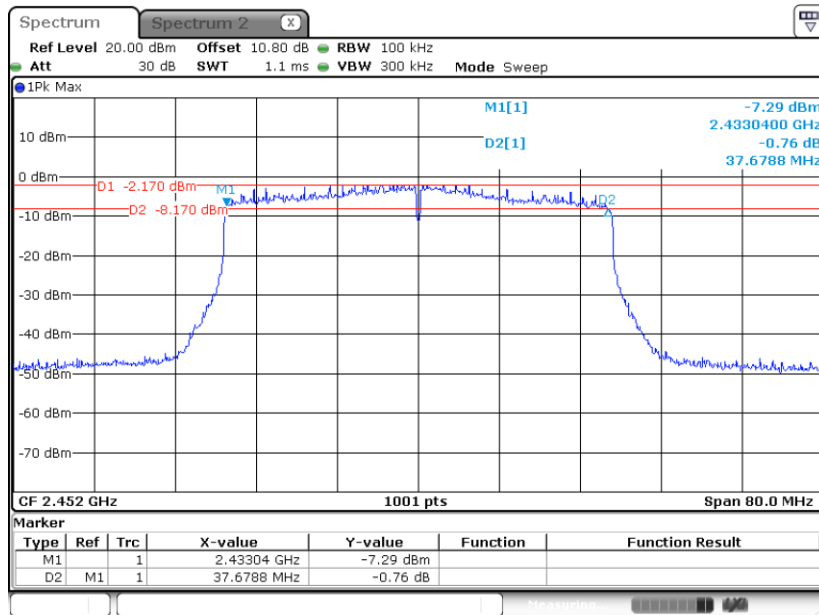


6 dB Bandwidth Plot on Channel 8



Date: 23.AUG.2024 18:04:27

6 dB Bandwidth Plot on Channel 9



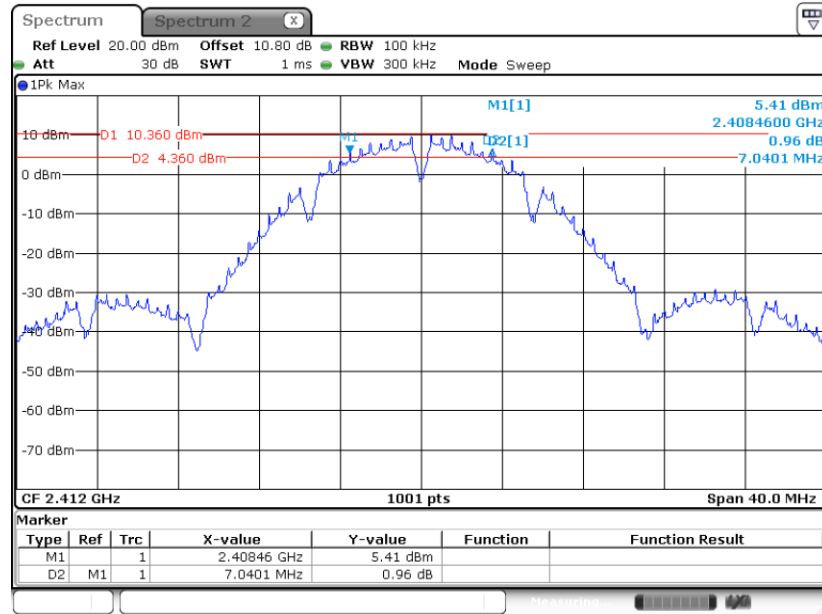
Date: 23.AUG.2024 18:06:10



Number of TX = 2, Ant. 7

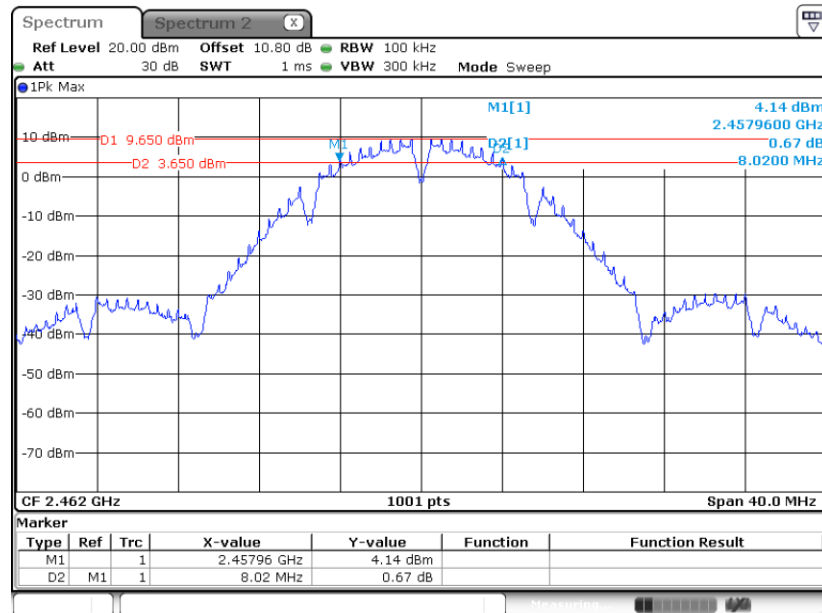
Test Mode : 802.11b

6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 18:08:48

6 dB Bandwidth Plot on Channel 11

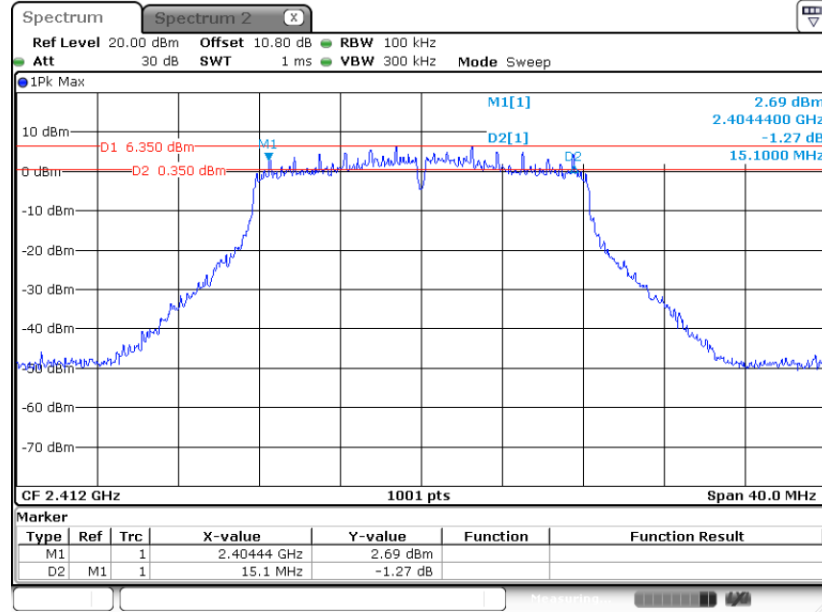


Date: 23.AUG.2024 18:10:17



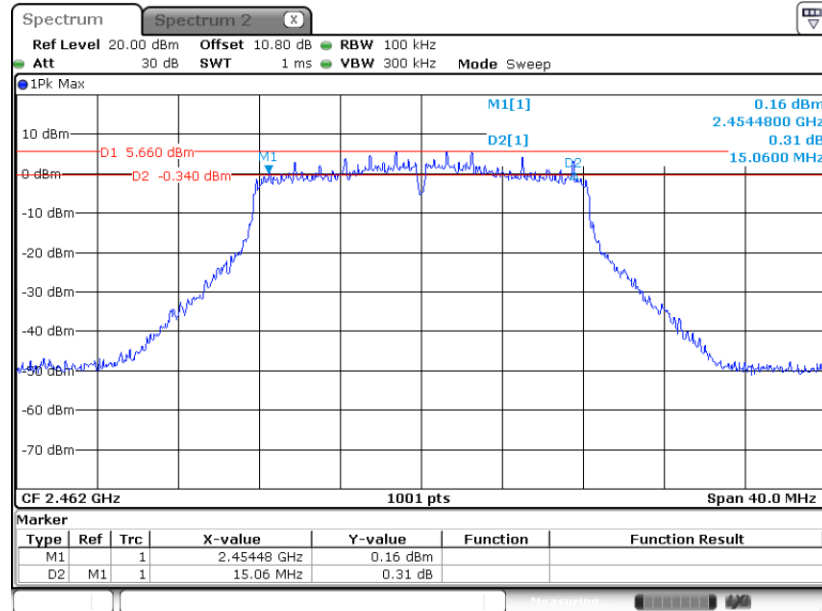
Test Mode : 802.11g

6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 18:13:01

6 dB Bandwidth Plot on Channel 11

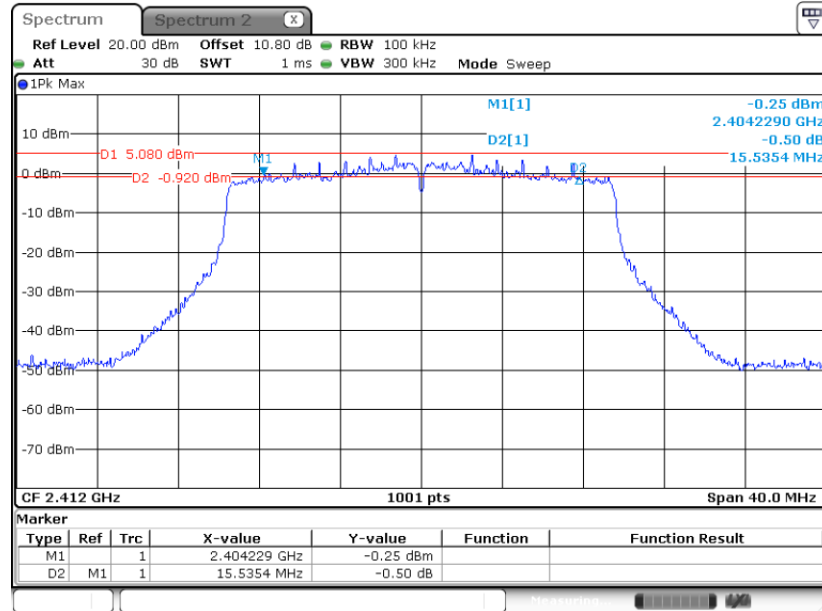


Date: 23.AUG.2024 18:14:33



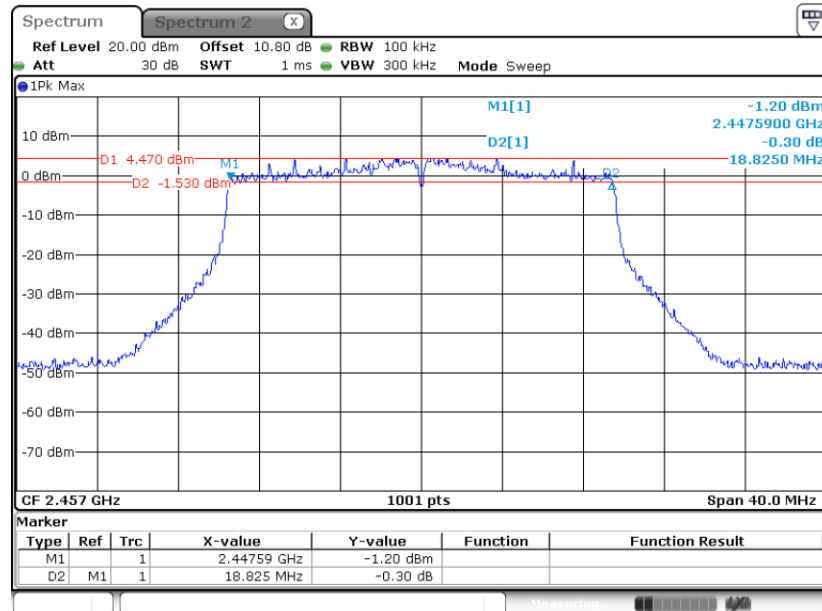
Test Mode : 802.11ax HE20

### 6 dB Bandwidth Plot on Channel 1



Date: 23.AUG.2024 18:16:52

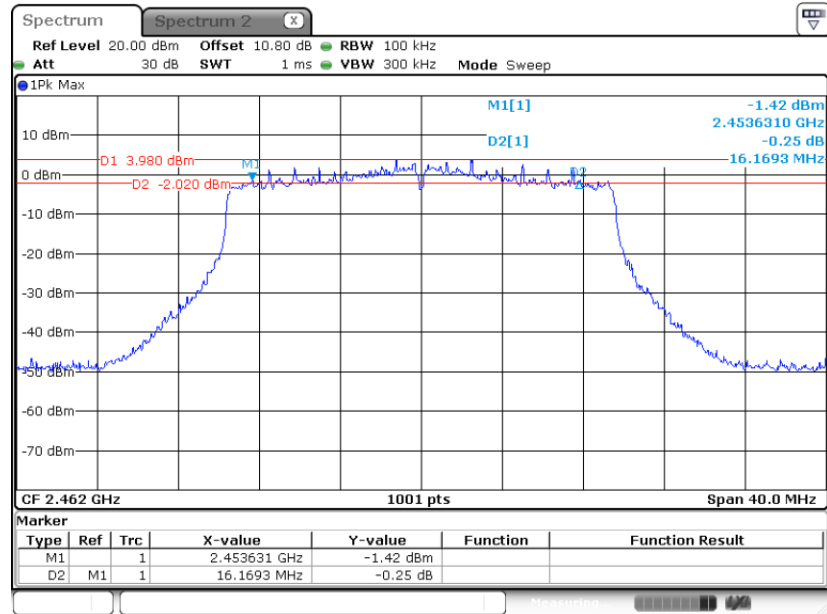
### 6 dB Bandwidth Plot on Channel 10



Date: 23.AUG.2024 18:18:21



6 dB Bandwidth Plot on Channel 11

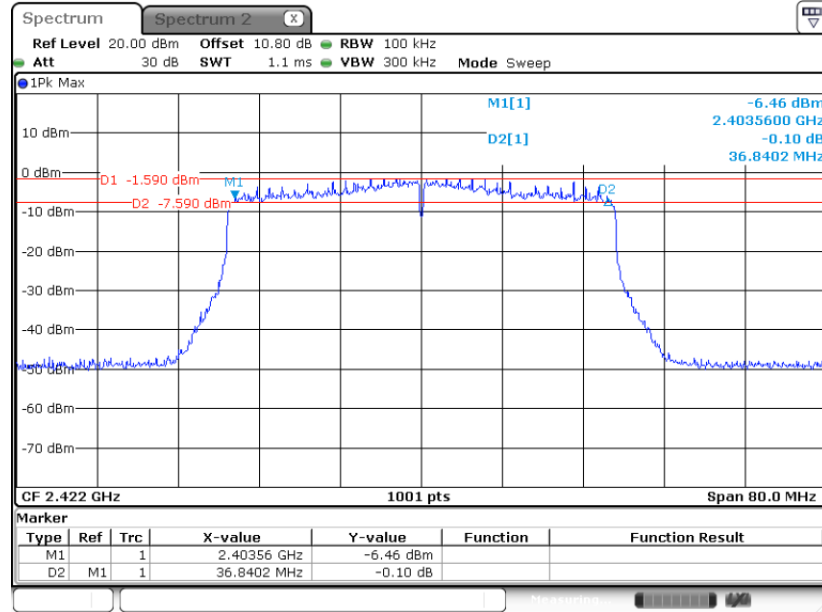


Date: 23.AUG.2024 18:20:10



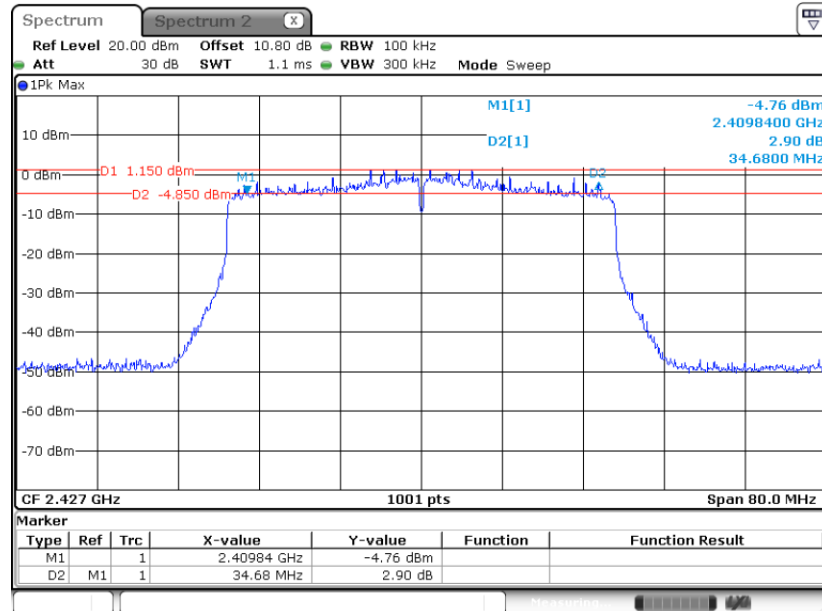
Test Mode : 802.11ax HE40

6 dB Bandwidth Plot on Channel 3



Date: 23.AUG.2024 18:21:46

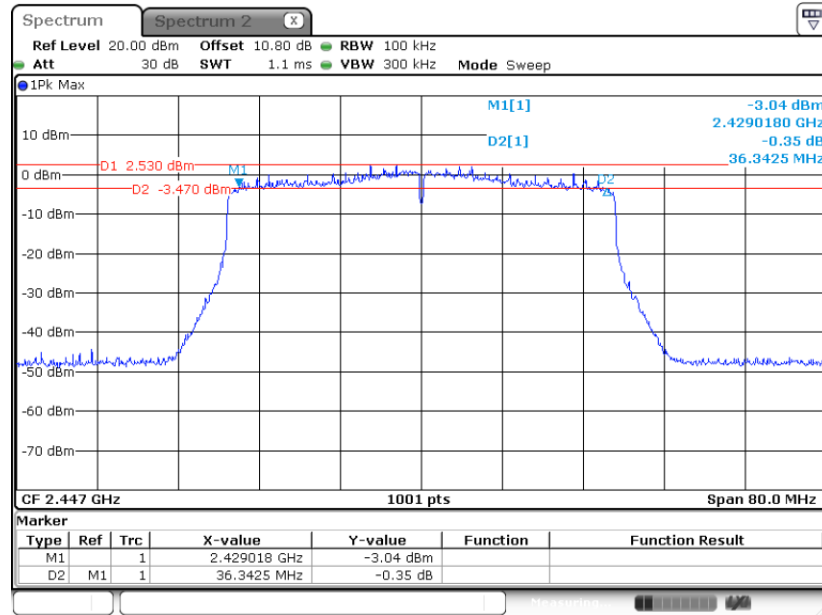
6 dB Bandwidth Plot on Channel 4



Date: 23.AUG.2024 18:22:57

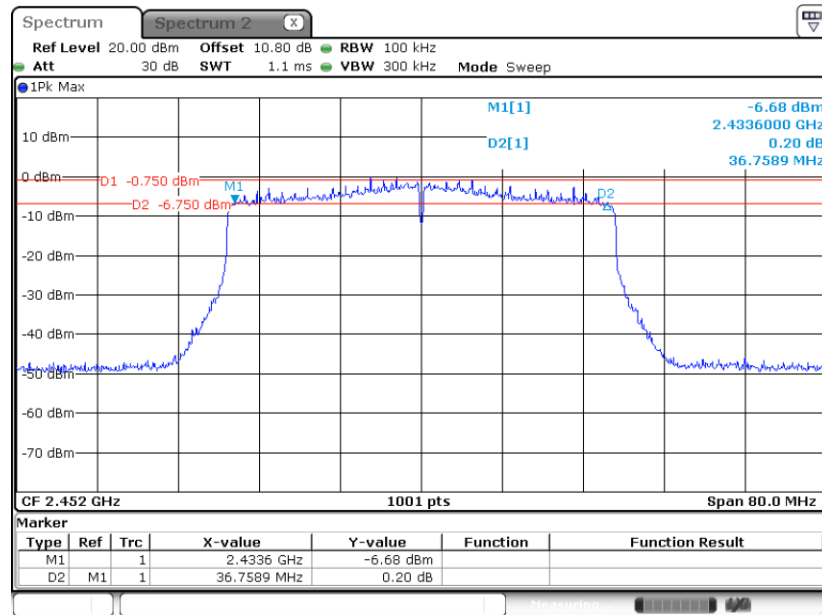


6 dB Bandwidth Plot on Channel 8



Date: 23.AUG.2024 18:25:18

6 dB Bandwidth Plot on Channel 9



Date: 23.AUG.2024 18:26:57

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

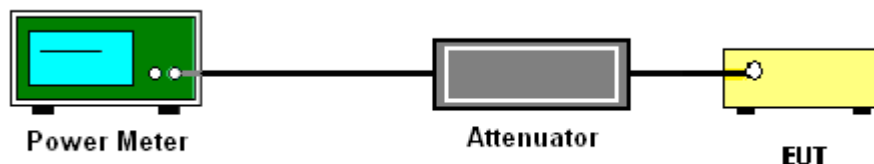
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

### 3.2.4 Test Setup







3.2.5 Test Result of Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	
11b	1Mbps	2	1	2412	21.71	21.69	24.71	30.00		1.50		26.21		36.00		Pass
11b	1Mbps	2	6	2437	21.73	21.62	24.69	30.00		1.50		26.19		36.00		Pass
11b	1Mbps	2	11	2462	21.91	21.49	24.72	30.00		1.50		26.22		36.00		Pass
11g	6Mbps	2	1	2412	23.31	22.93	26.13	30.00		1.50		27.63		36.00		Pass
11g	6Mbps	2	6	2437	24.92	24.66	27.80	30.00		1.50		29.30		36.00		Pass
11g	6Mbps	2	11	2462	22.34	22.11	25.24	30.00		1.50		26.74		36.00		Pass
HT20	MCS0	2	1	2412	21.61	21.47	24.55	30.00		1.50		27.34		36.00		Pass
HT20	MCS0	2	6	2437	24.07	24.15	27.12	30.00		1.50		29.74		36.00		Pass
HT20	MCS0	2	10	2457	23.11	23.18	26.16	30.00		1.50		28.71		36.00		Pass
HT20	MCS0	2	11	2462	20.52	20.54	23.54	30.00		1.50		26.65		36.00		Pass
HT40	MCS0	2	3	2422	19.62	19.31	22.48	30.00		1.50		24.04		36.00		Pass
HT40	MCS0	2	4	2427	21.49	21.30	24.41	30.00		1.50		25.91		36.00		Pass
HT40	MCS0	2	6	2437	22.84	22.63	25.75	30.00		1.50		28.09		36.00		Pass
HT40	MCS0	2	8	2447	22.13	21.81	24.98	30.00		1.50		26.47		36.00		Pass
HT40	MCS0	2	9	2452	18.95	18.96	21.97	30.00		1.50		23.47		36.00		Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	
HE20	MCS0	2	1	2412	Full	22.95	22.96	25.97	30.00		1.50		27.47		36.00		Pass
HE20	MCS0	2	6	2437	Full	25.31	25.42	28.38	30.00		1.50		29.88		36.00		Pass
HE20	MCS0	2	10	2457	Full	24.24	24.47	27.37	30.00		1.50		28.87		36.00		Pass
HE20	MCS0	2	11	2462	Full	22.04	22.43	25.25	30.00		1.50		26.75		36.00		Pass
HE40	MCS0	2	3	2422	Full	20.13	19.81	22.98	30.00		1.50		24.48		36.00		Pass
HE40	MCS0	2	4	2427	Full	21.60	21.42	24.52	30.00		1.50		26.02		36.00		Pass
HE40	MCS0	2	6	2437	Full	23.90	23.58	26.75	30.00		1.50		28.25		36.00		Pass
HE40	MCS0	2	8	2447	Full	22.48	22.21	25.36	30.00		1.50		26.86		36.00		Pass
HE40	MCS0	2	9	2452	Full	19.14	19.11	22.14	30.00		1.50		23.64		36.00		Pass



3.2.6 Test Result of Average Output Power (Reporting Only)

2.4GHz Band MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant6	Ant7	Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7	
11b	1Mbps	2	1	2412	0.04	0.04	19.14	19.06	22.11	30.00		1.50	23.61	36.00	36.00	Pass		
11b	1Mbps	2	6	2437	0.04	0.04	19.16	19.02	22.10	30.00		1.50	23.60	36.00	36.00	Pass		
11b	1Mbps	2	11	2462	0.04	0.04	19.40	18.89	22.16	30.00		1.50	23.66	36.00	36.00	Pass		
11g	6Mbps	2	1	2412	0.03	0.03	17.17	16.72	19.96	30.00		1.50	21.46	36.00	36.00	Pass		
11g	6Mbps	2	6	2437	0.03	0.03	18.56	18.41	21.50	30.00		1.50	23.00	36.00	36.00	Pass		
11g	6Mbps	2	11	2462	0.03	0.03	16.19	15.89	19.05	30.00		1.50	20.55	36.00	36.00	Pass		
HT20	MCS0	2	1	2412	0.00	0.00	15.30	15.19	18.26	30.00		1.50	19.76	36.00	36.00	Pass		
HT20	MCS0	2	6	2437	0.00	0.00	17.59	17.73	20.67	30.00		1.50	22.17	36.00	36.00	Pass		
HT20	MCS0	2	10	2457	0.00	0.00	16.57	16.64	19.62	30.00		1.50	21.12	36.00	36.00	Pass		
HT20	MCS0	2	11	2462	0.00	0.00	14.30	14.24	17.28	30.00		1.50	18.78	36.00	36.00	Pass		
HT40	MCS0	2	3	2422	0.00	0.00	13.09	12.86	15.99	30.00		1.50	17.49	36.00	36.00	Pass		
HT40	MCS0	2	4	2427	0.00	0.00	14.70	14.46	17.59	30.00		1.50	19.09	36.00	36.00	Pass		
HT40	MCS0	2	6	2437	0.00	0.00	16.64	16.48	19.57	30.00		1.50	21.07	36.00	36.00	Pass		
HT40	MCS0	2	8	2447	0.00	0.00	15.32	15.23	18.29	30.00		1.50	19.79	36.00	36.00	Pass		
HT40	MCS0	2	9	2452	0.00	0.00	12.33	12.37	15.36	30.00		1.50	16.86	36.00	36.00	Pass		

2.4GHz Band MIMO						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Setting	
					Ant6	Ant7
11b	1Mbps	2	1	2412	20.00	
11b	1Mbps	2	6	2437	20.00	
11b	1Mbps	2	11	2462	20.00	
11g	6Mbps	2	1	2412	17.50	
11g	6Mbps	2	6	2437	19.00	
11g	6Mbps	2	11	2462	16.50	
HT20	MCS0	2	1	2412	16.00	
HT20	MCS0	2	6	2437	18.50	
HT20	MCS0	2	10	2457	17.50	
HT20	MCS0	2	11	2462	15.00	
HT40	MCS0	2	3	2422	12.50	
HT40	MCS0	2	4	2427	14.50	
HT40	MCS0	2	6	2437	16.00	
HT40	MCS0	2	8	2447	15.00	
HT40	MCS0	2	9	2452	11.50	



2.4GHz Band MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant6	Ant7	Ant6	Ant7	SUM	Ant6	Ant7	Ant6	Ant7	Ant6	Ant7		
HE20	MCS0	2	1	2412	Full	0.00	0.00	15.46	15.37	18.43	30.00		1.50		19.93		36.00	Pass
HE20	MCS0	2	6	2437	Full	0.00	0.00	17.73	17.88	20.82	30.00		1.50		22.32		36.00	Pass
HE20	MCS0	2	10	2457	Full	0.00	0.00	16.71	16.81	19.77	30.00		1.50		21.27		36.00	Pass
HE20	MCS0	2	11	2462	Full	0.00	0.00	14.44	14.42	17.44	30.00		1.50		18.94		36.00	Pass
HE40	MCS0	2	3	2422	Full	0.00	0.00	13.23	13.01	16.13	30.00		1.50		17.63		36.00	Pass
HE40	MCS0	2	4	2427	Full	0.00	0.00	14.90	14.60	17.76	30.00		1.50		19.26		36.00	Pass
HE40	MCS0	2	6	2437	Full	0.00	0.00	16.88	16.66	19.78	30.00		1.50		21.28		36.00	Pass
HE40	MCS0	2	8	2447	Full	0.00	0.00	15.49	15.38	18.45	30.00		1.50		19.95		36.00	Pass
HE40	MCS0	2	9	2452	Full	0.00	0.00	12.49	12.47	15.49	30.00		1.50		16.99		36.00	Pass

2.4GHz Band MIMO								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Setting		Pass /Fail
						Ant6	Ant7	
HE20	MCS0	2	1	2412	Full	16.00		Pass
HE20	MCS0	2	6	2437	Full	18.50		Pass
HE20	MCS0	2	10	2457	Full	17.50		Pass
HE20	MCS0	2	11	2462	Full	15.00		Pass
HE40	MCS0	2	3	2422	Full	13.50		Pass
HE40	MCS0	2	4	2427	Full	15.00		Pass
HE40	MCS0	2	6	2437	Full	17.00		Pass
HE40	MCS0	2	8	2447	Full	15.50		Pass
HE40	MCS0	2	9	2452	Full	12.50		Pass

### 3.3 Conducted Band Edges Measurement

#### 3.3.1 Limit of Conducted Band Edges Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

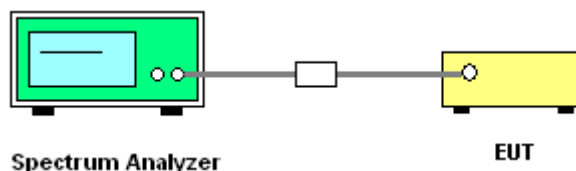
#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 3.3.4 Test Setup

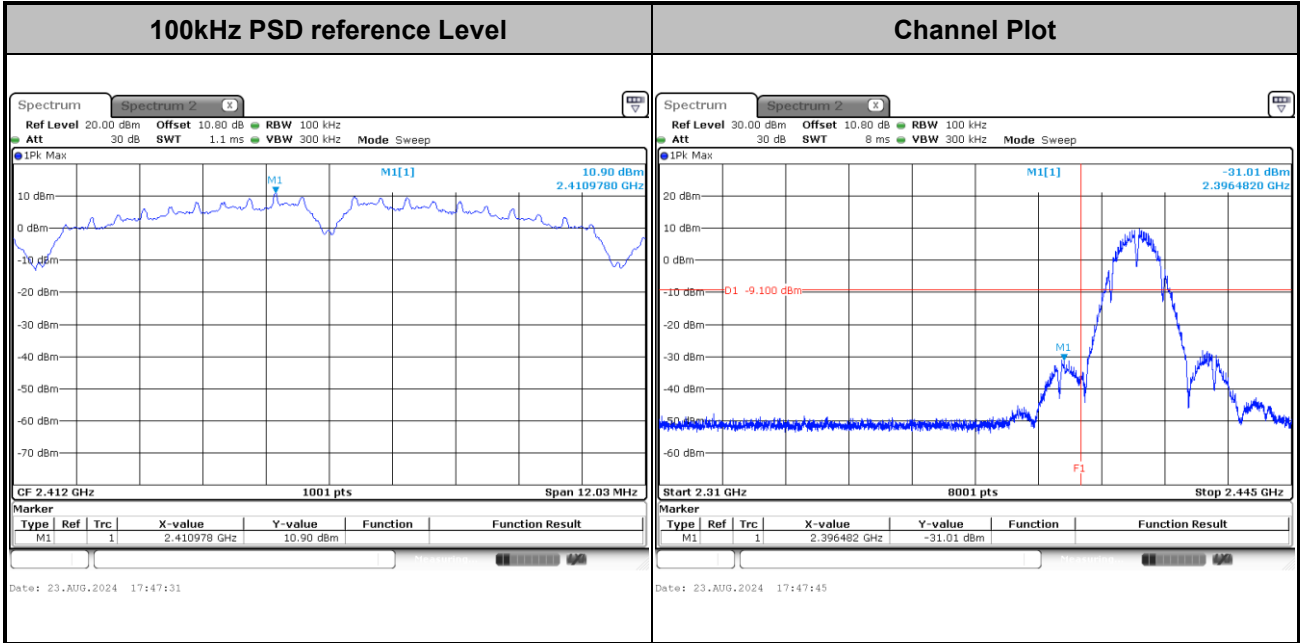




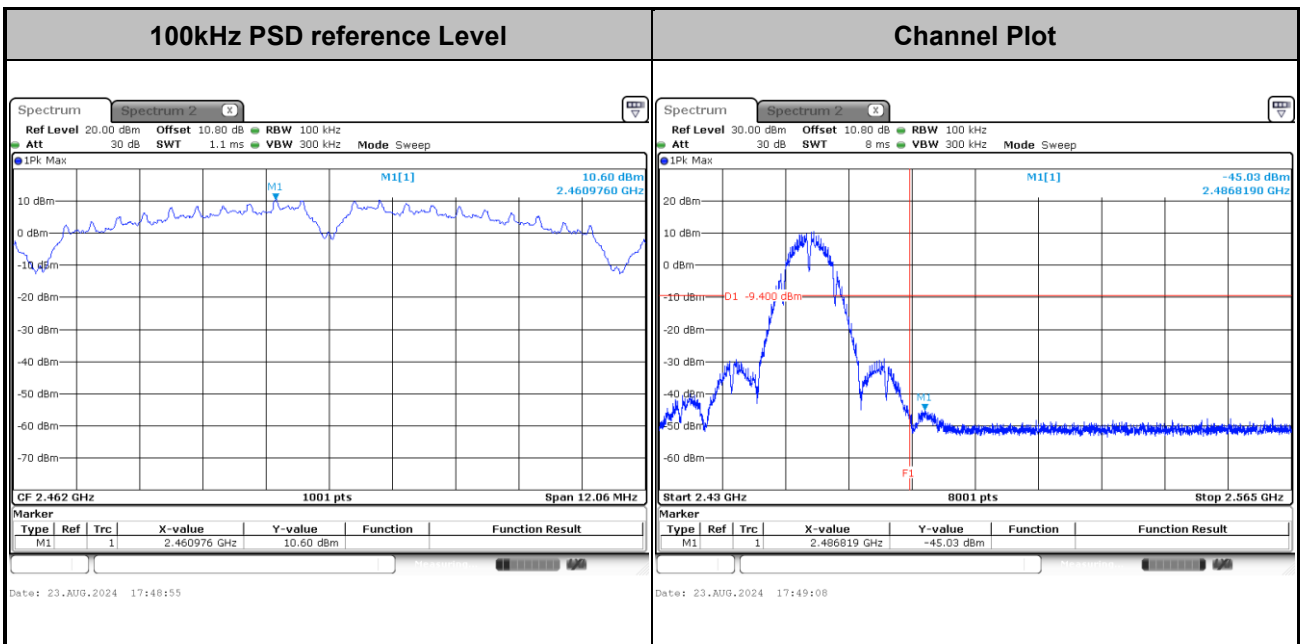
### 3.3.5 Test Result of Conducted Band Edges

Number of TX = 2, Ant. 6 (Measured)

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----

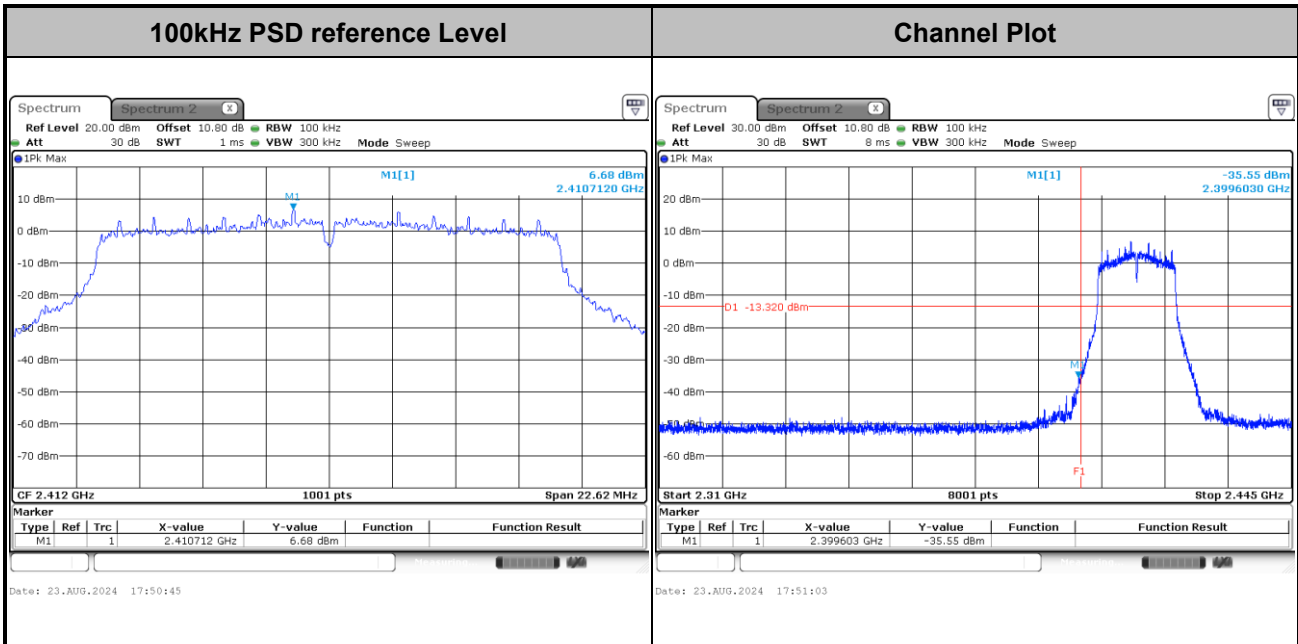


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----

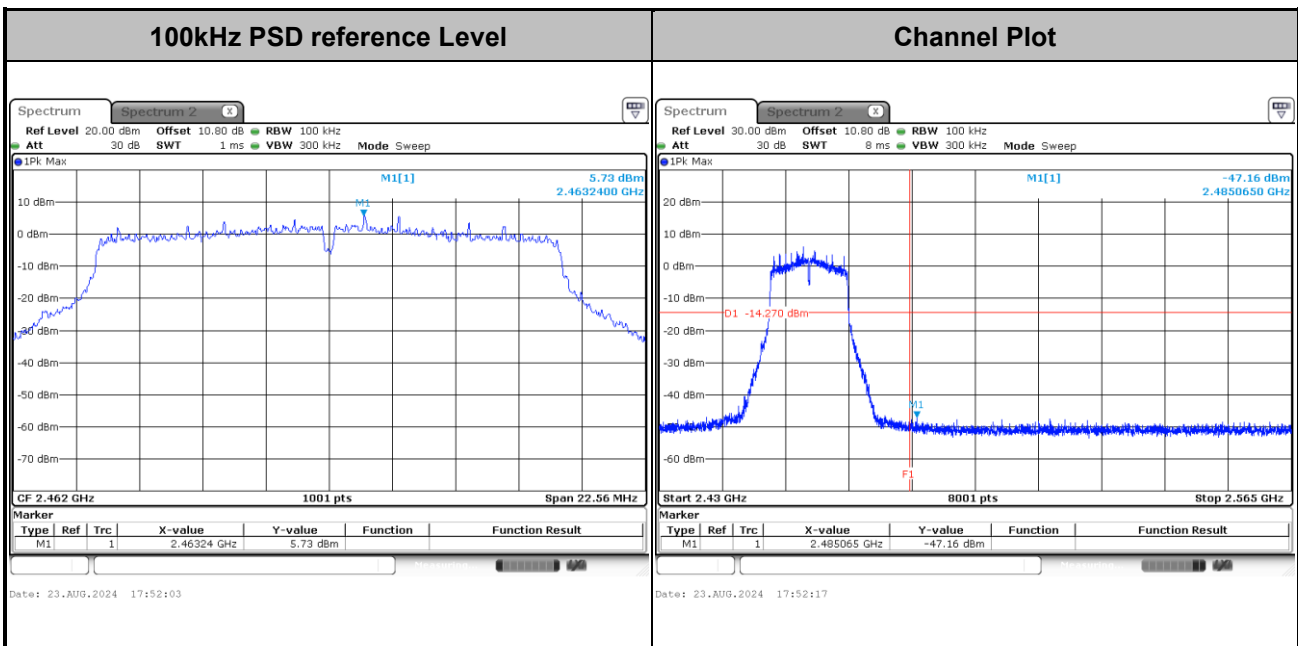




Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----

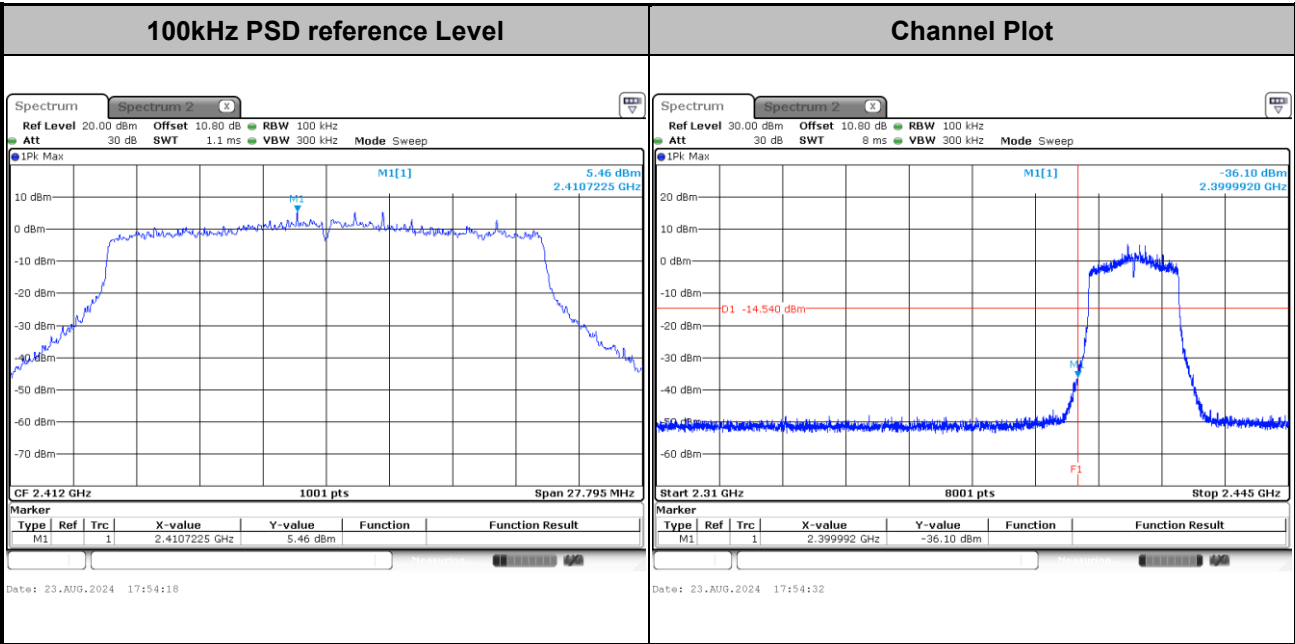


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----

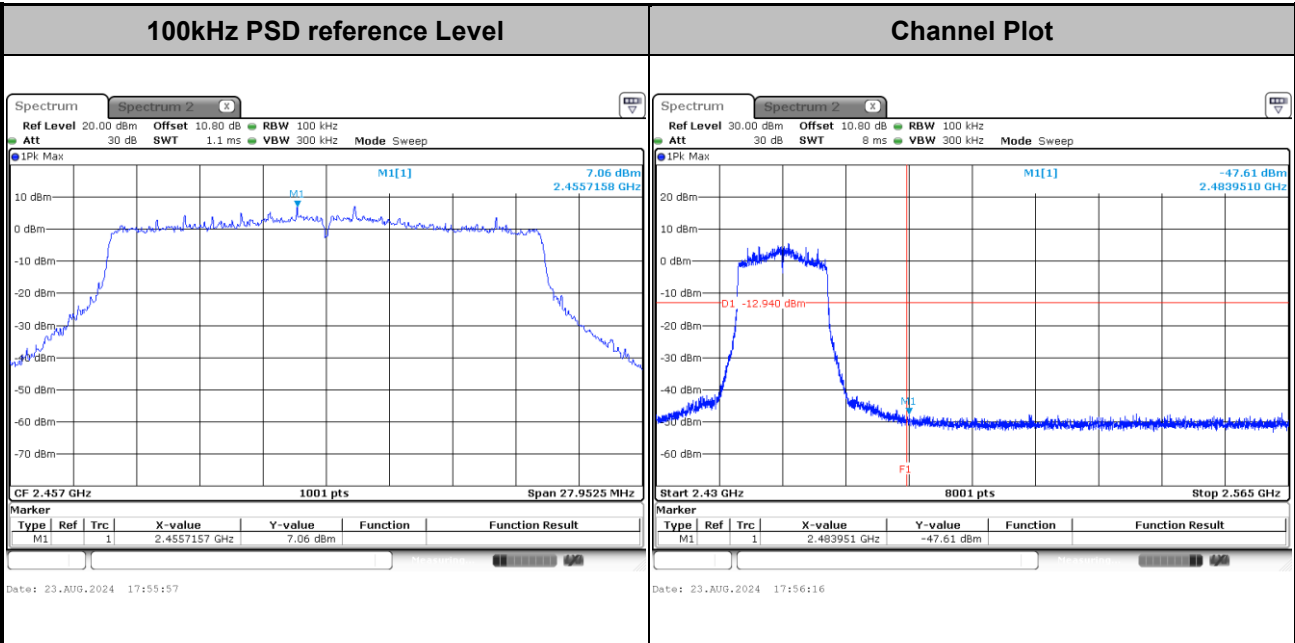




Test Mode :	802.11ax HE20	Test Channel :	01
-------------	---------------	----------------	----

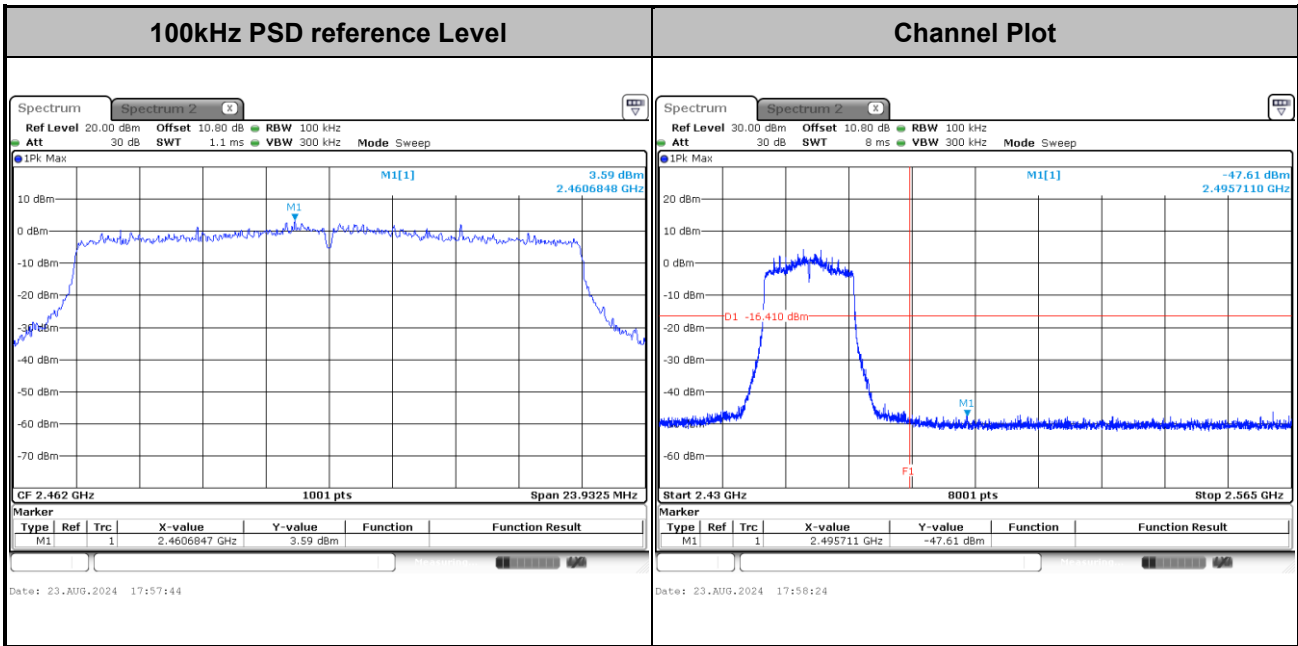


Test Mode :	802.11ax HE20	Test Channel :	10
-------------	---------------	----------------	----





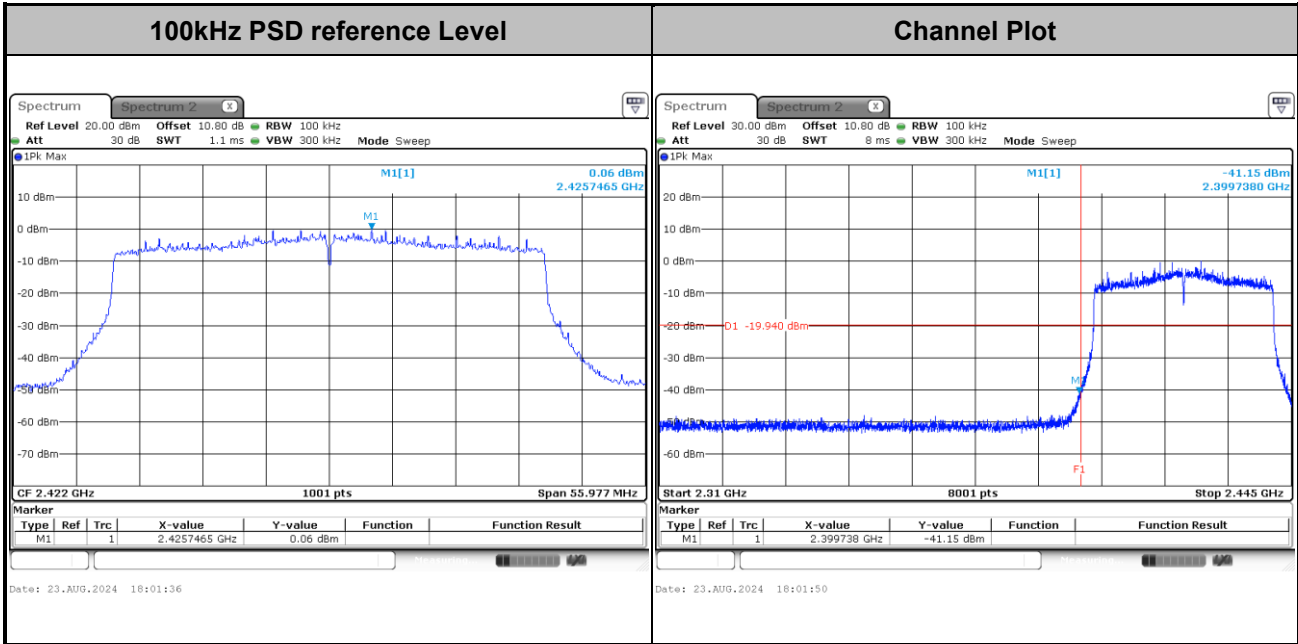
Test Mode :	802.11ax HE20	Test Channel :	11
-------------	---------------	----------------	----



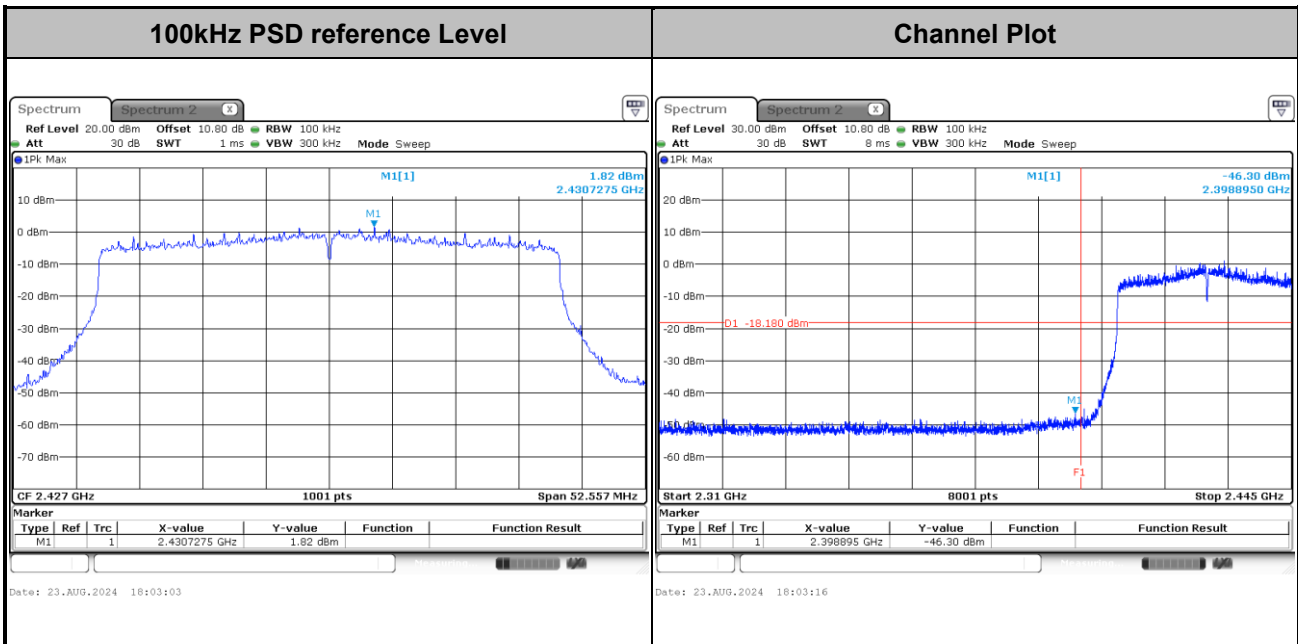




<b>Test Mode :</b> 802.11ax HE40	<b>Test Channel :</b> 03
----------------------------------	--------------------------

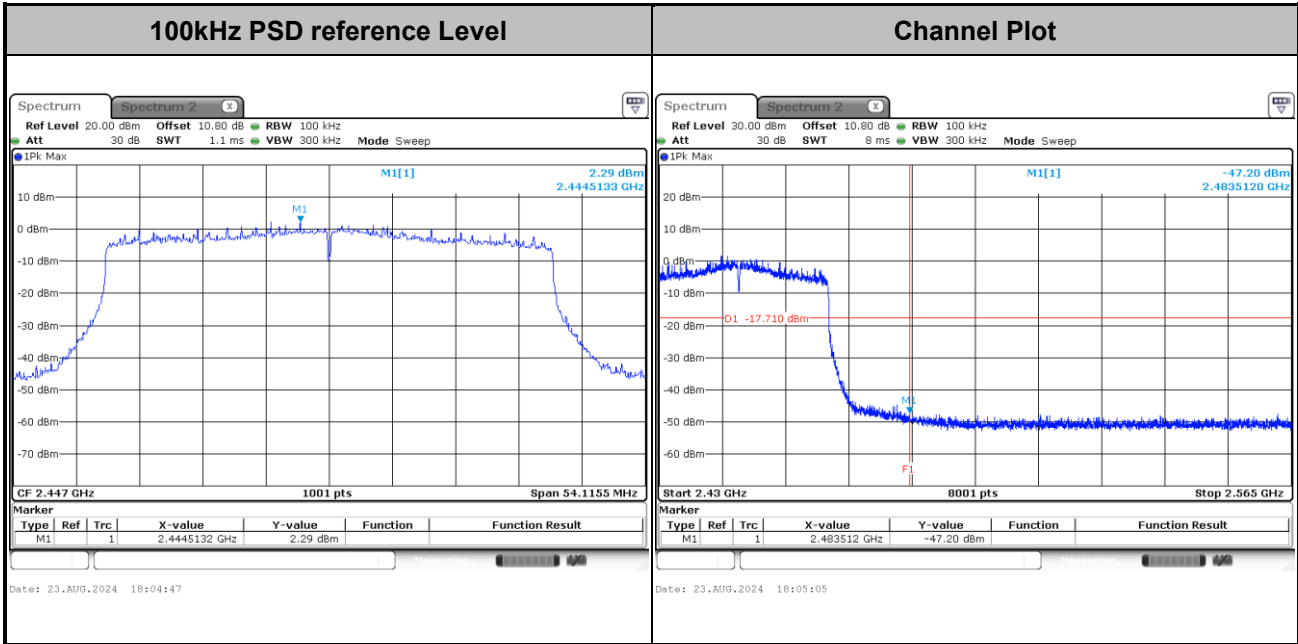


<b>Test Mode :</b> 802.11ax HE40	<b>Test Channel :</b> 04
----------------------------------	--------------------------

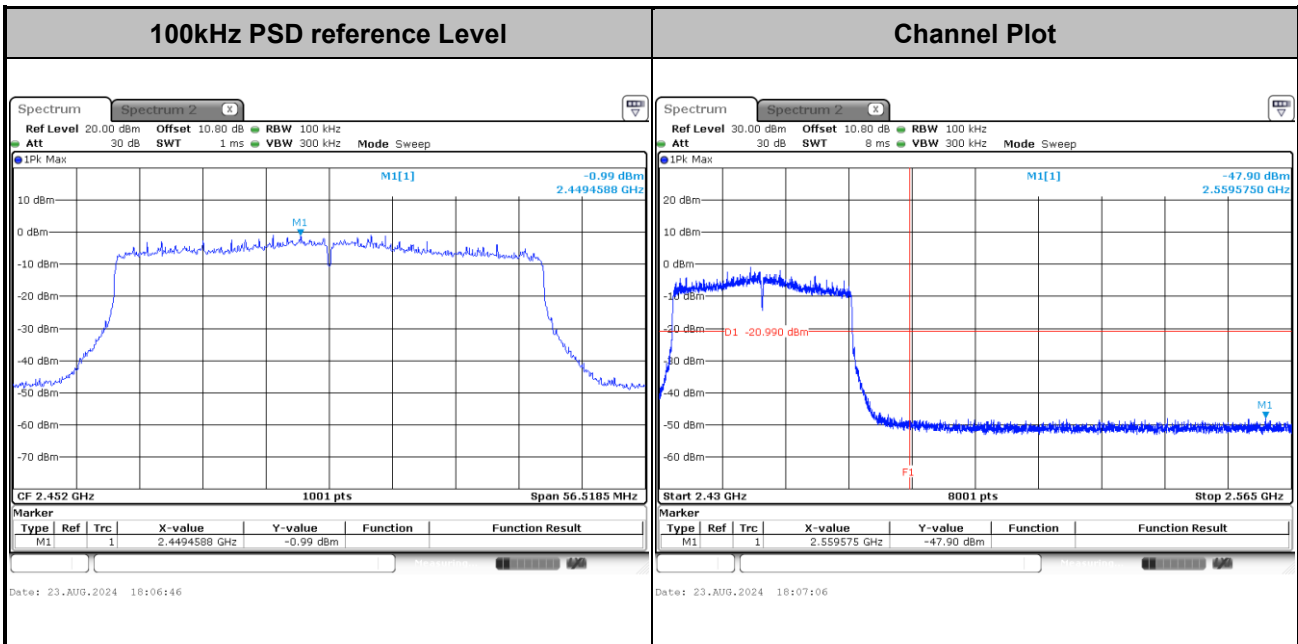




<b>Test Mode :</b> 802.11ax HE40	<b>Test Channel :</b> 08
----------------------------------	--------------------------



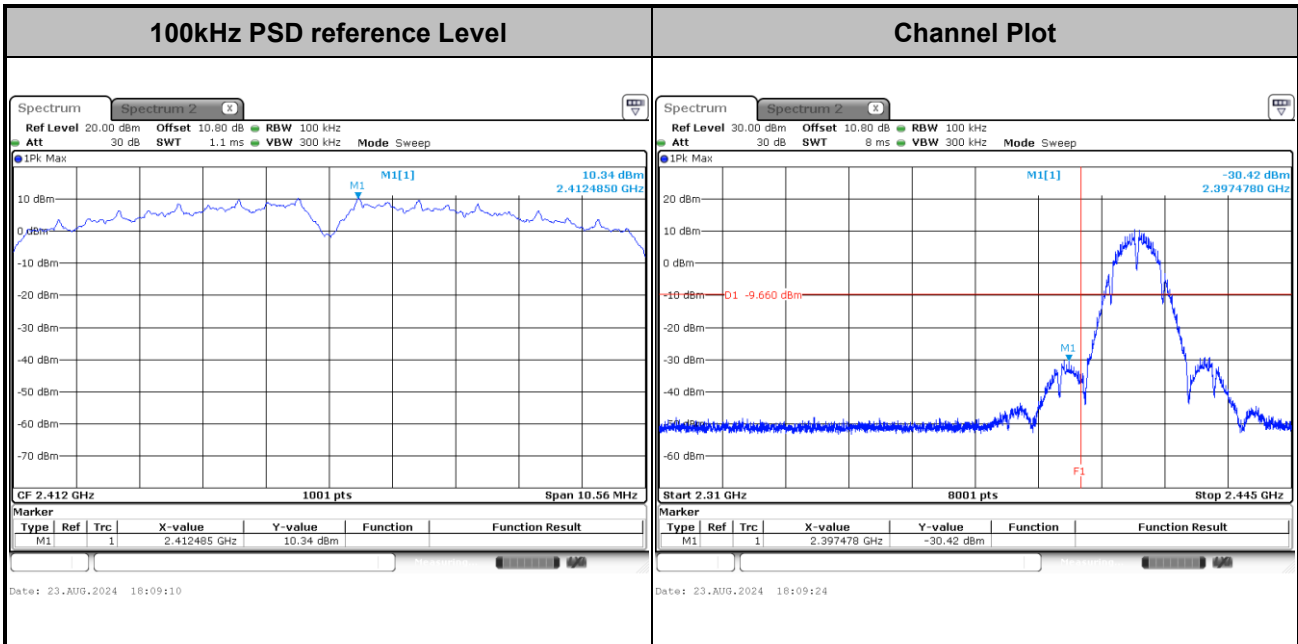
<b>Test Mode :</b> 802.11ax HE40	<b>Test Channel :</b> 09
----------------------------------	--------------------------



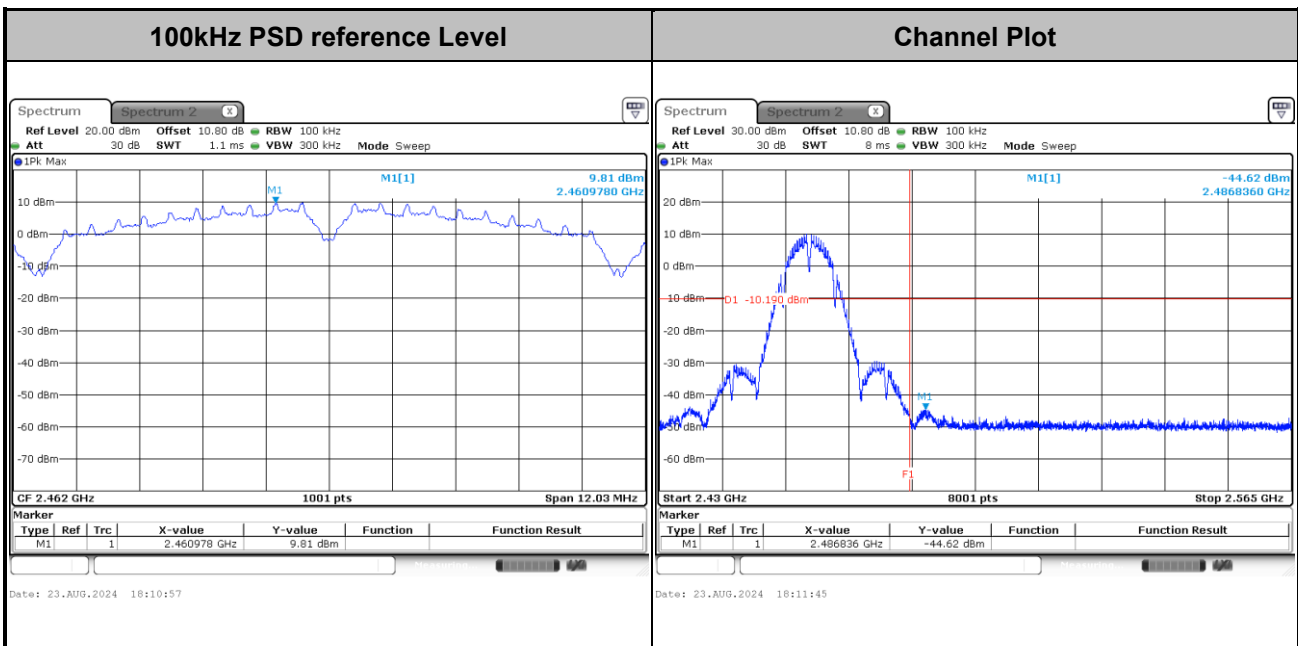


Number of TX = 2, Ant. 7 (Measured)

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----

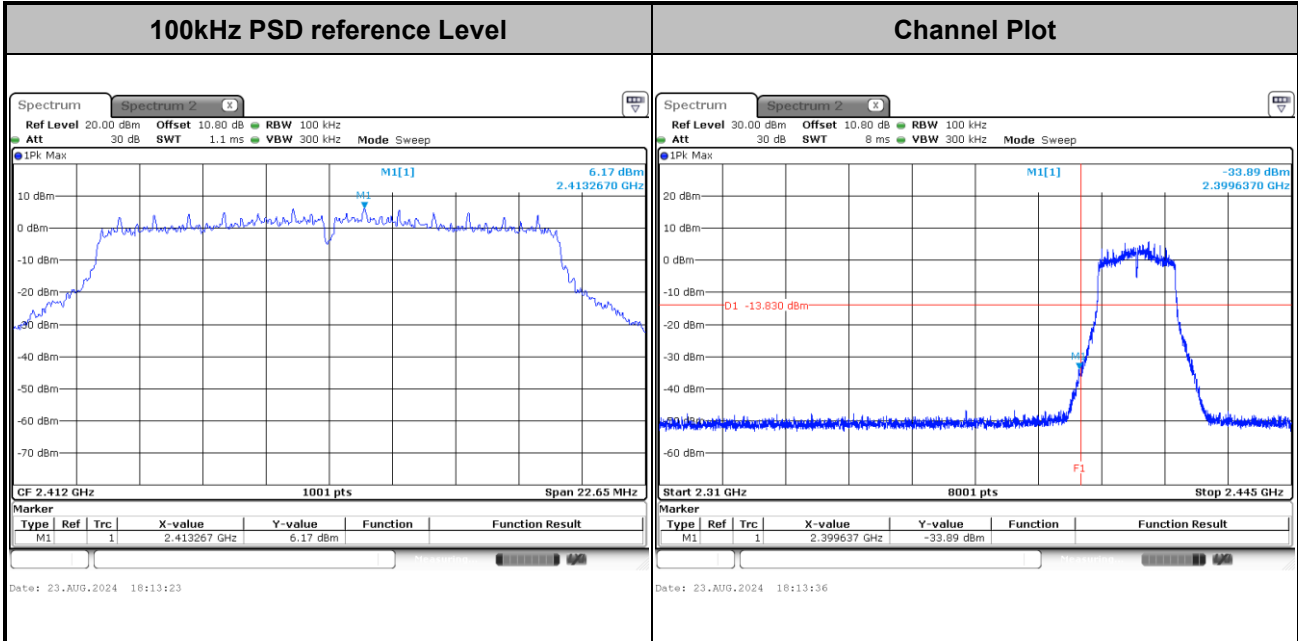


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----

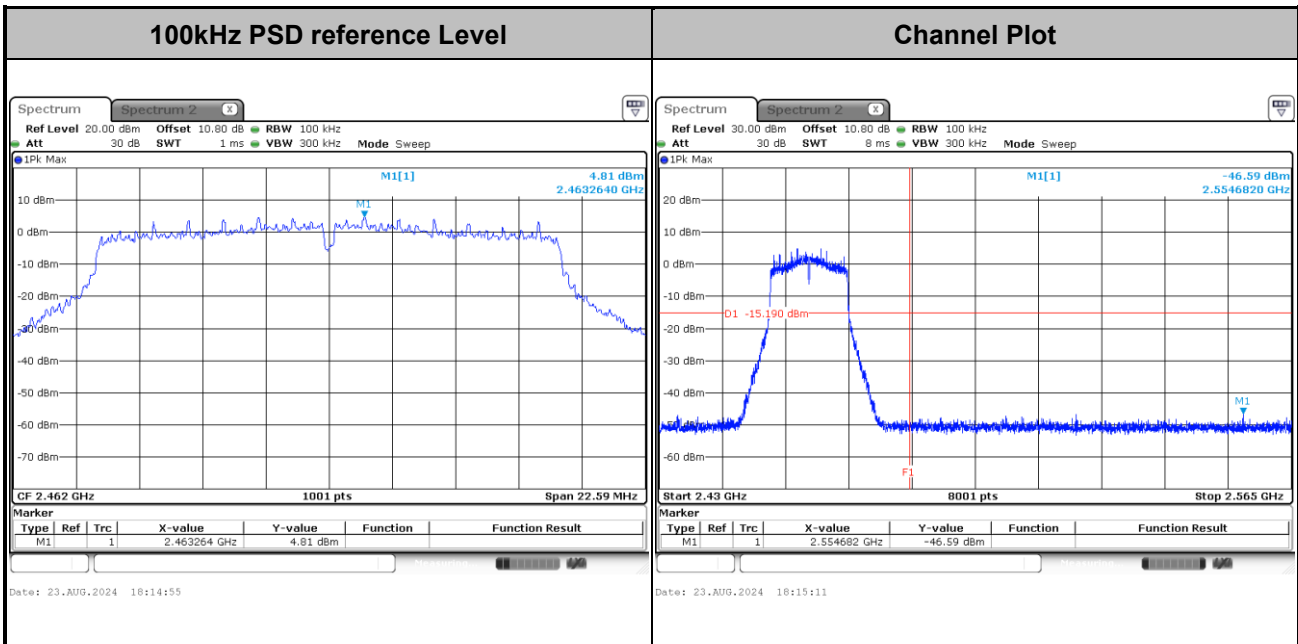




Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----

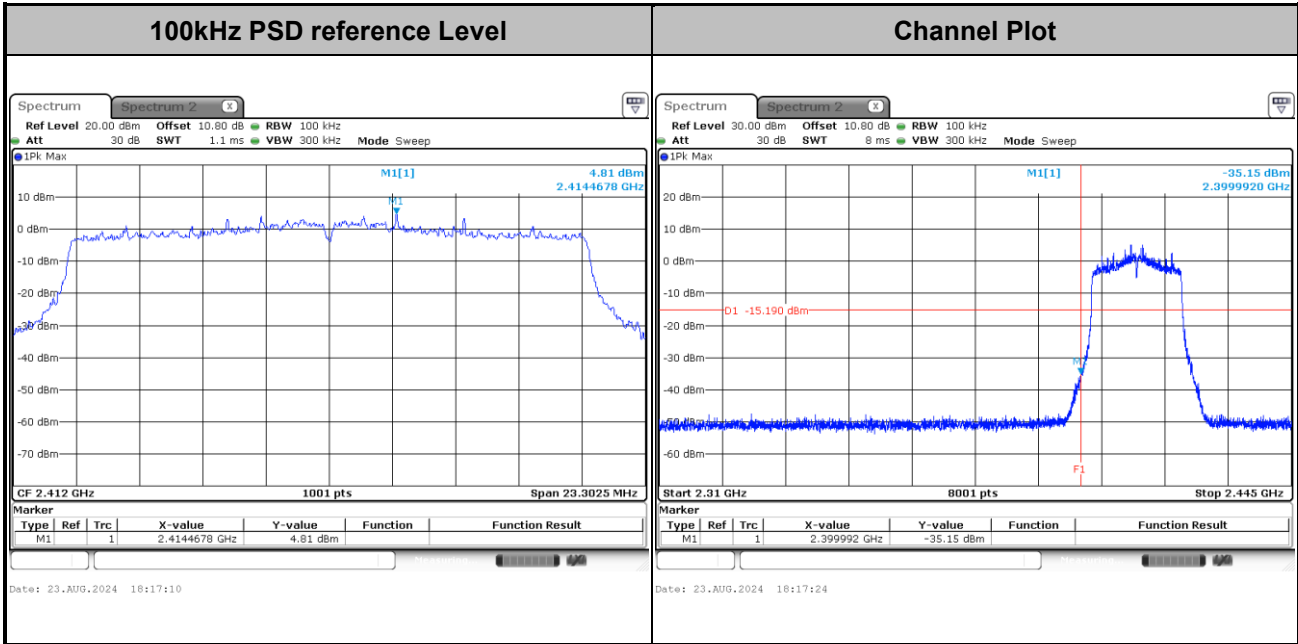


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----

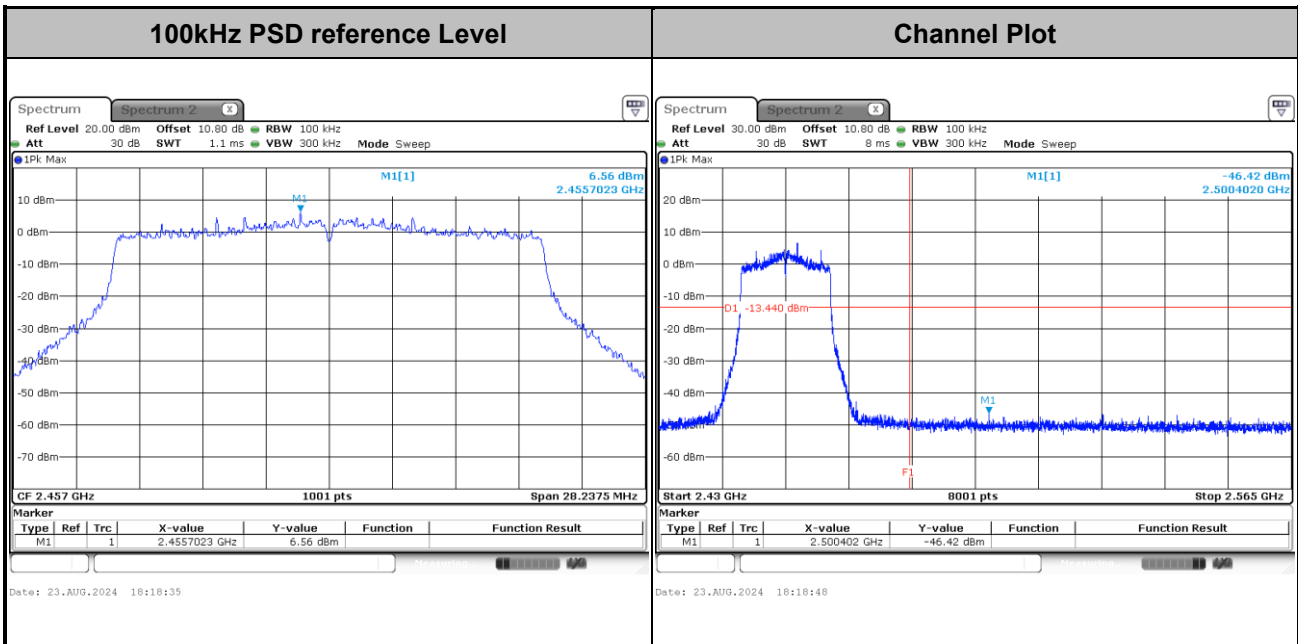




<b>Test Mode :</b> 802.11ax HE20	<b>Test Channel :</b> 01
----------------------------------	--------------------------

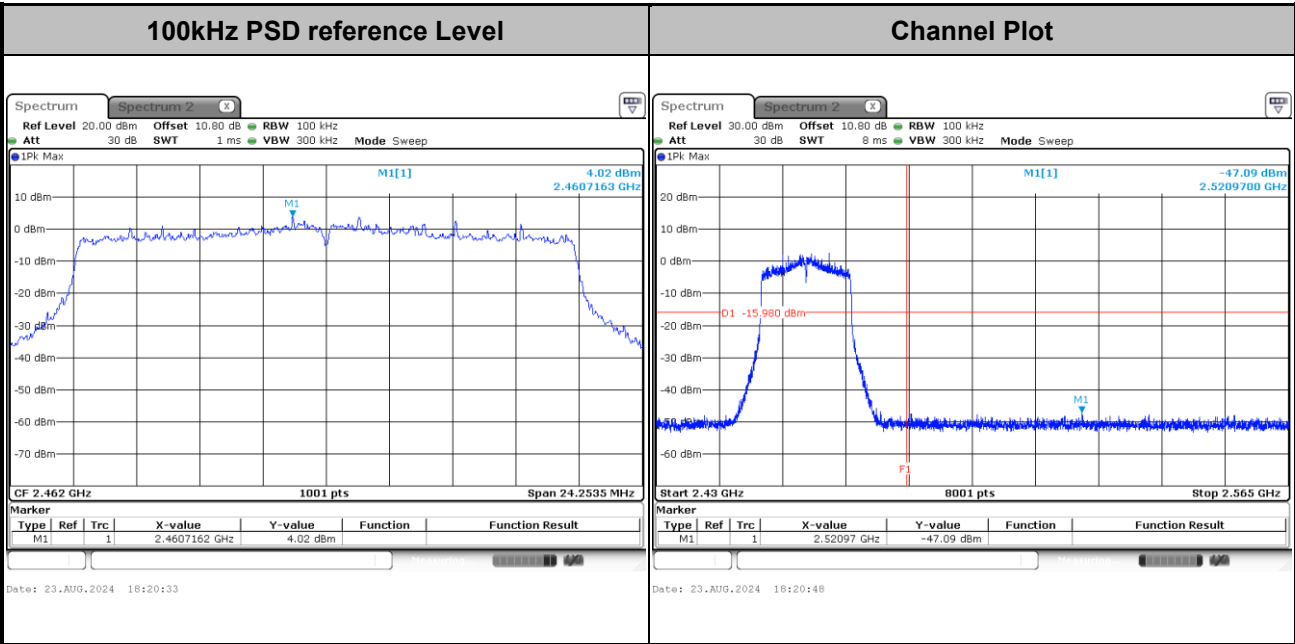


<b>Test Mode :</b> 802.11ax HE20	<b>Test Channel :</b> 10
----------------------------------	--------------------------



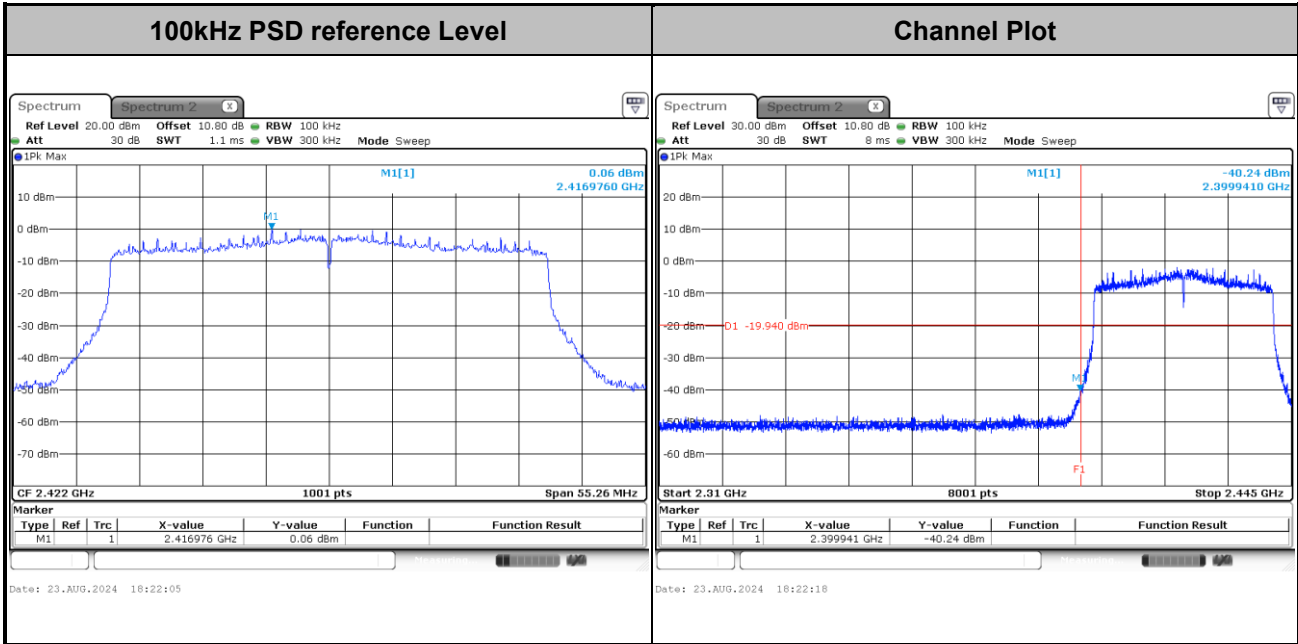


Test Mode :	802.11ax HE20	Test Channel :	11
-------------	---------------	----------------	----

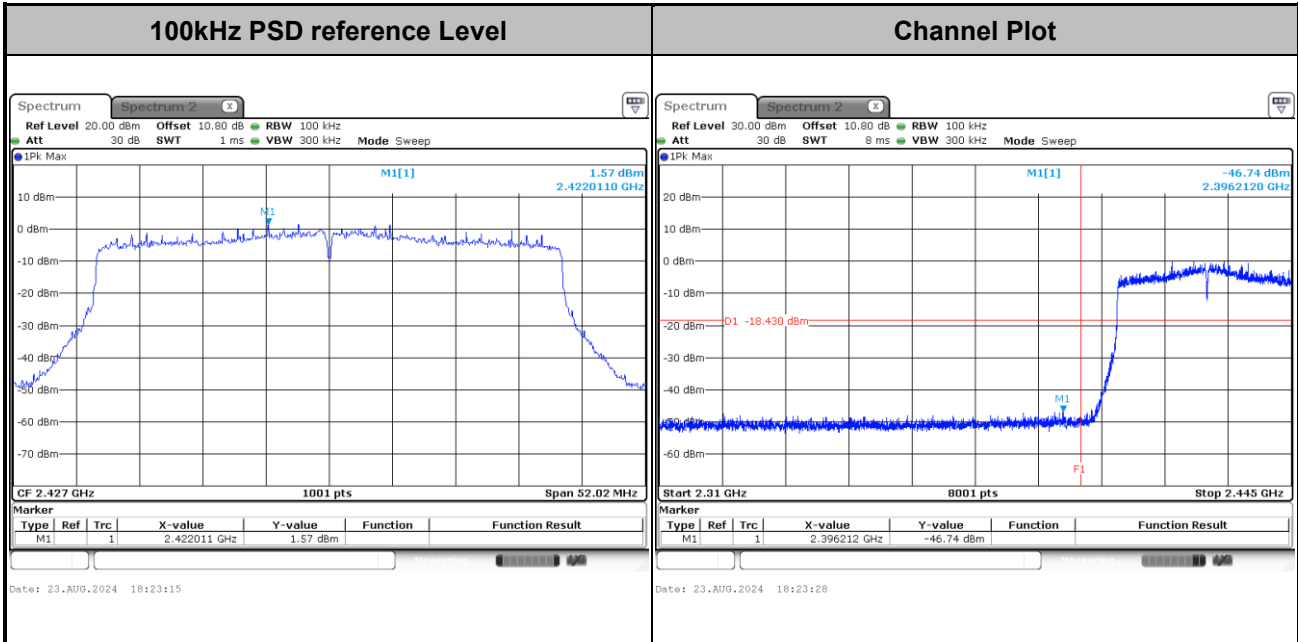




Test Mode :	802.11ax HE40	Test Channel :	03
-------------	---------------	----------------	----

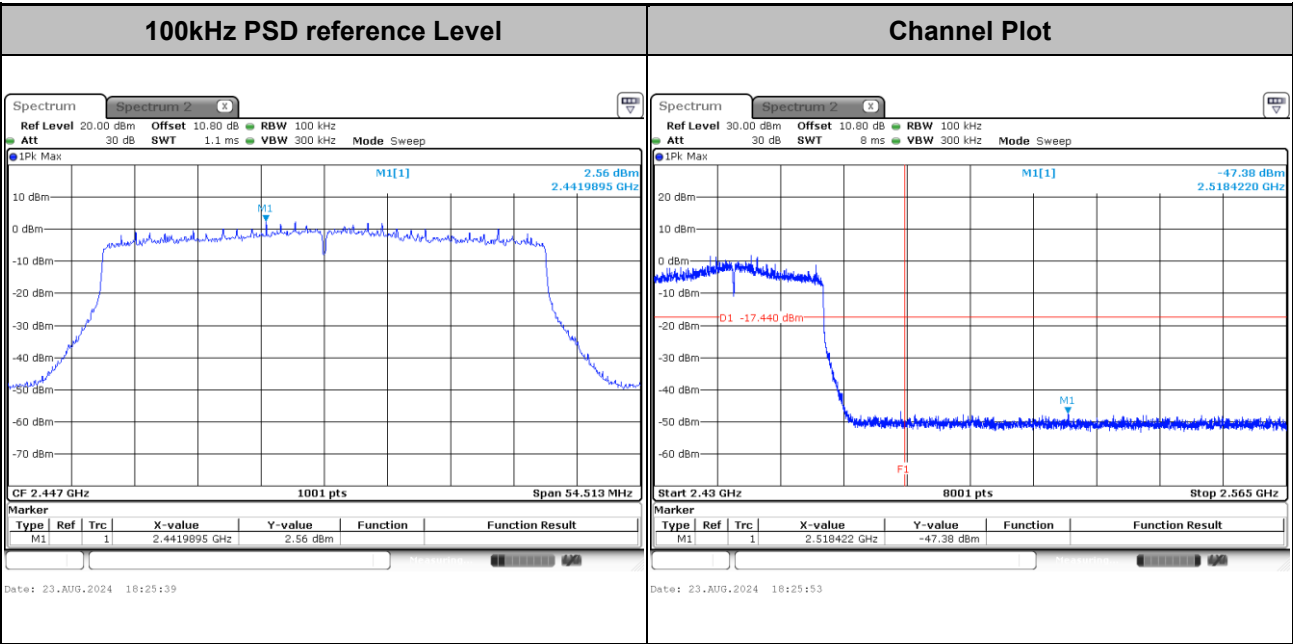


Test Mode :	802.11ax HE40	Test Channel :	04
-------------	---------------	----------------	----

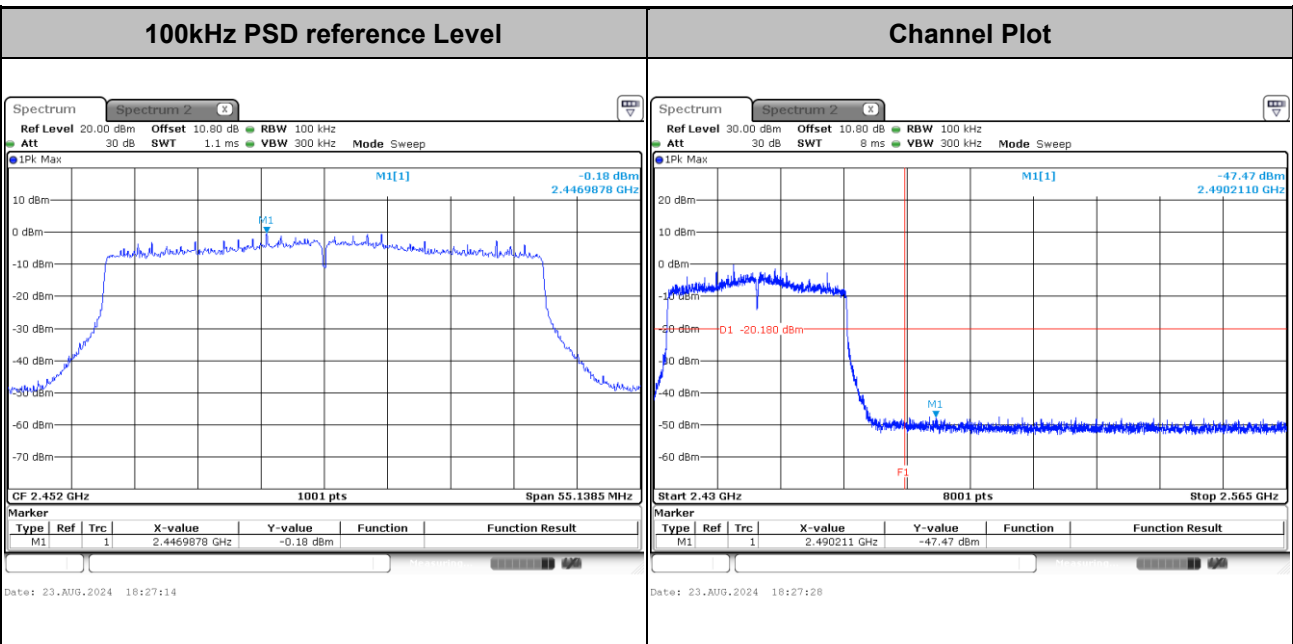




Test Mode : 802.11ax HE40 Test Channel : 08



Test Mode : 802.11ax HE40 Test Channel : 09







### 3.4 Radiated Band Edges and Spurious Emission Measurement

#### 3.4.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

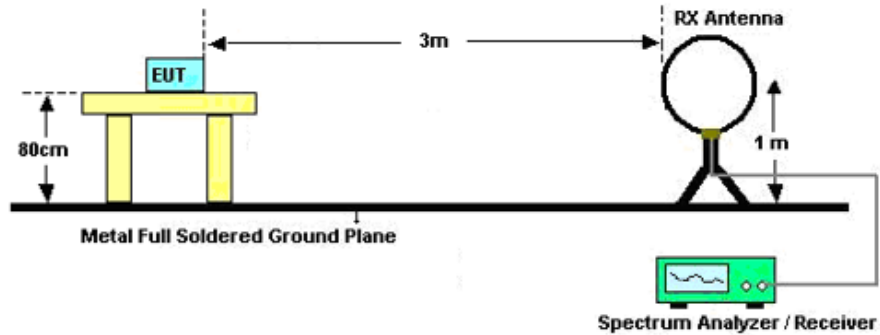


### 3.4.3 Test Procedures

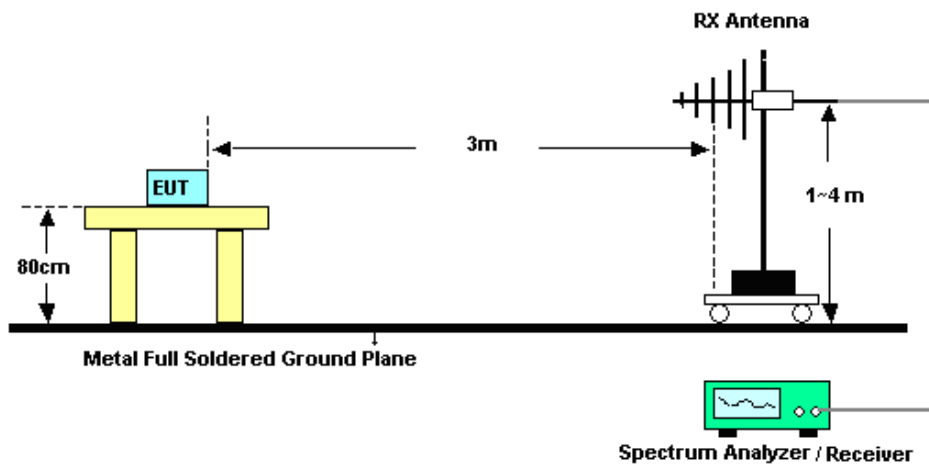
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.  
For average measurement:
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.4.4 Test Setup

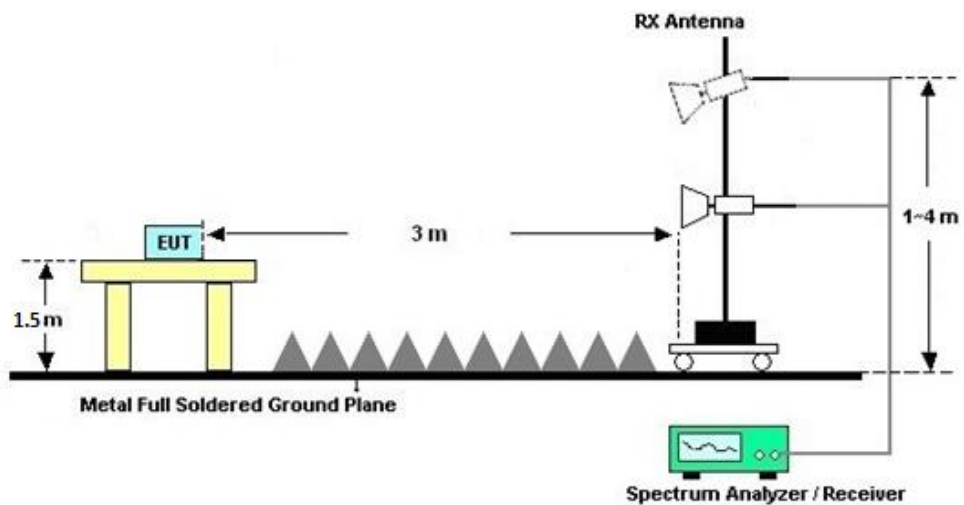
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.4.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### **3.4.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix A.

### **3.4.7 Duty Cycle**

Please refer to Appendix B.

### **3.4.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix A.



### 3.5 Antenna Requirements

#### 3.5.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

#### 3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.5.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain =  $10 \log(N_{ANT}/N_{SS}=1)$  dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain  $G_{ANT}$  is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 6 (dBi)	Ant. 7 (dBi)				
2.4 GHz	1.50	1.10	1.50	4.31	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$

**TXBF modes**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
			<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
	<b>Ant 6</b>	<b>Ant 7</b>	<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>2.4 GHz</b>	1.50	1.10	4.31	4.31	0.00	0.00

$$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$$

$$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$$



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Aug. 23, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Aug. 23, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Aug. 23, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 10, 2023	Aug. 12, 2024~Aug. 13, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44GHz	Oct. 10, 2023	Aug. 12, 2024~Aug. 13, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Aug. 12, 2024~Aug. 13, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 19, 2023	Aug. 12, 2024~Aug. 13, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jul. 11, 2024	Aug. 12, 2024~Aug. 13, 2024	Jul. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2024	Aug. 12, 2024~Aug. 13, 2024	Jan. 04, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 05, 2024	Aug. 12, 2024~Aug. 13, 2024	Jul. 04, 2025	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 04, 2024	Aug. 12, 2024~Aug. 13, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 04, 2024	Aug. 12, 2024~Aug. 13, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 10, 2023	Aug. 12, 2024~Aug. 13, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 12, 2024~Aug. 13, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 12, 2024~Aug. 13, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 12, 2024~Aug. 13, 2024	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Conducted Bandedge	±2.22 dB
Conducted Power	±0.50 dB

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
---	---------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.06 dB
---	---------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18 dB
---	---------

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38 dB
---	---------

----- THE END -----





### Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Levi zhao	Relative Humidity :	41~42%
		Temperature :	22 ~23°C

### Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	CDD 6+7	802.11ax HE40	04	2427	MCS0	Full	-

### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ax HE40	04	2386.96	48.51	54.00	-5.49	H	AVERAGE	Pass	Band Edge
1	802.11ax HE40	04	7281.00	43.93	74.00	-30.07	H	PEAK	Pass	Harmonic

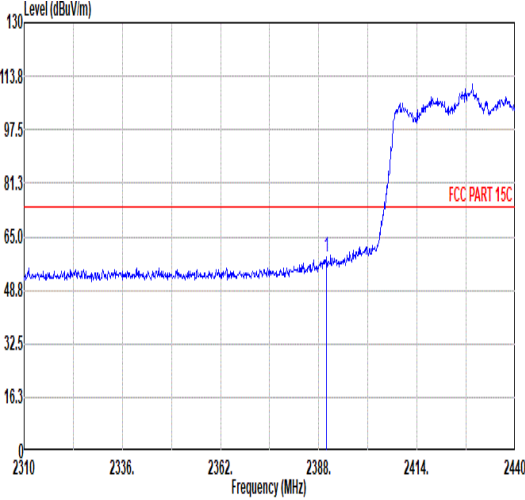
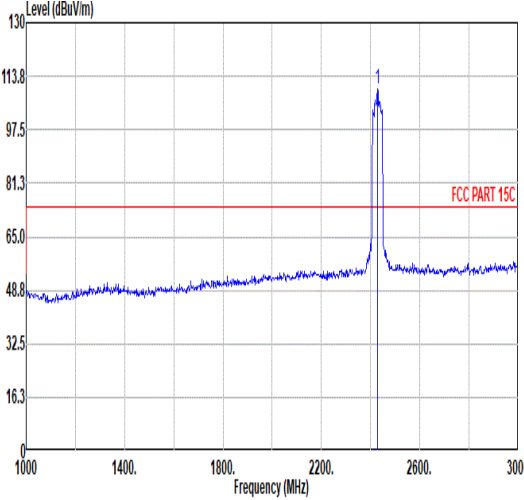
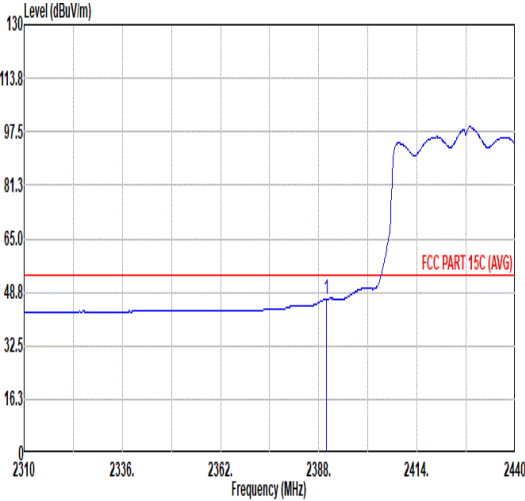
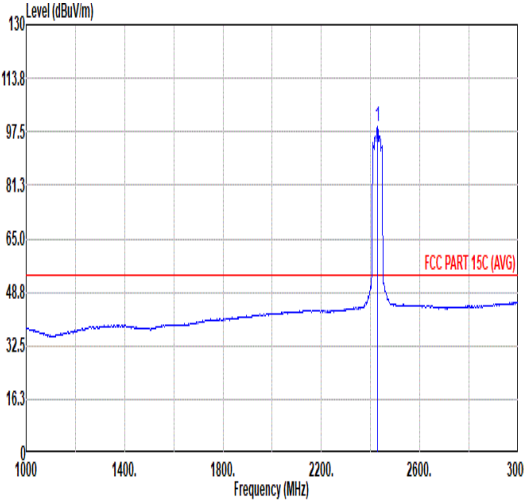


		1																																																																																																		
Mode		Band Edge - L																																																																																																		
		2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																																																																																		
ANT		CDD 6+7																																																																																																		
Pol.		Horizontal					Fundamental																																																																																													
Peak		<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2386.31</td> <td>60.14</td> <td>74.00</td> <td>-13.86</td> <td>47.28</td> <td>32.44</td> <td>6.60</td> <td>32.18</td> <td>6.00</td> <td>112</td> <td>82 PEAK</td> </tr> </tbody> </table>					Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2386.31	60.14	74.00	-13.86	47.28	32.44	6.60	32.18	6.00	112	82 PEAK						<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2427.00</td> <td>111.57</td> <td>-----</td> <td>-----</td> <td>98.64</td> <td>32.47</td> <td>6.66</td> <td>32.20</td> <td>6.00</td> <td>112</td> <td>82 PEAK</td> </tr> </tbody> </table>					Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2427.00	111.57	-----	-----	98.64	32.47	6.66	32.20	6.00	112	82 PEAK
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																										
1	2386.31	60.14	74.00	-13.86	47.28	32.44	6.60	32.18	6.00	112	82 PEAK																																																																																									
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																										
1	2427.00	111.57	-----	-----	98.64	32.47	6.66	32.20	6.00	112	82 PEAK																																																																																									
Avg		<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2386.96</td> <td>48.51</td> <td>54.00</td> <td>-5.49</td> <td>35.65</td> <td>32.44</td> <td>6.60</td> <td>32.18</td> <td>6.00</td> <td>112</td> <td>82 AVERAGE</td> </tr> </tbody> </table>					Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2386.96	48.51	54.00	-5.49	35.65	32.44	6.60	32.18	6.00	112	82 AVERAGE						<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2427.00</td> <td>101.36</td> <td>-----</td> <td>-----</td> <td>88.42</td> <td>32.48</td> <td>6.66</td> <td>32.20</td> <td>6.00</td> <td>112</td> <td>82 AVERAGE</td> </tr> </tbody> </table>					Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2427.00	101.36	-----	-----	88.42	32.48	6.66	32.20	6.00	112	82 AVERAGE
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																										
1	2386.96	48.51	54.00	-5.49	35.65	32.44	6.60	32.18	6.00	112	82 AVERAGE																																																																																									
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																										
1	2427.00	101.36	-----	-----	88.42	32.48	6.66	32.20	6.00	112	82 AVERAGE																																																																																									



Mode	1																																												
	Band Edge - R																																												
	2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																												
ANT	CDD 6+7																																												
Pol.	Horizontal	Fundamental																																											
Peak	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2491.48</td> <td>57.66</td> <td>74.00</td> <td>-16.34</td> <td>44.51</td> <td>32.65</td> <td>6.74</td> <td>32.24</td> <td>6.00</td> <td>112</td> <td>82 PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2491.48	57.66	74.00	-16.34	44.51	32.65	6.74	32.24	6.00	112	82 PEAK	Blank
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																			
1	2491.48	57.66	74.00	-16.34	44.51	32.65	6.74	32.24	6.00	112	82 PEAK																																		
Avg	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2485.06</td> <td>45.32</td> <td>54.00</td> <td>-8.68</td> <td>32.21</td> <td>32.61</td> <td>6.73</td> <td>32.23</td> <td>6.00</td> <td>112</td> <td>82 AVERAGE</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2485.06	45.32	54.00	-8.68	32.21	32.61	6.73	32.23	6.00	112	82 AVERAGE	Blank
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																			
1	2485.06	45.32	54.00	-8.68	32.21	32.61	6.73	32.23	6.00	112	82 AVERAGE																																		



		1																																																																																										
Mode		Band Edge - L																																																																																										
		2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																																																																										
ANT		CDD 6+7																																																																																										
Pol.		Vertical					Fundamental																																																																																					
Peak	 <p>Level (dBuV/m)</p> <p>130</p> <p>113.8</p> <p>97.5</p> <p>81.3</p> <p>65.0</p> <p>48.8</p> <p>0</p> <p>2310 2336 2362 2388 2414 2440</p> <p>Frequency (MHz)</p> <p>FCC PART 15C</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th colspan="2">Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>58.65</td> <td>74.00</td> <td>-15.35</td> <td>45.75</td> <td>32.48</td> <td>6.60</td> <td>32.18</td> <td>6.00</td> <td>376</td> <td>106 PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2389.95	58.65	74.00	-15.35	45.75	32.48	6.60	32.18	6.00	376	106 PEAK	 <p>Level (dBuV/m)</p> <p>130</p> <p>113.8</p> <p>97.5</p> <p>81.3</p> <p>65.0</p> <p>48.8</p> <p>0</p> <p>1000 1400 1800 2200 2600 3000</p> <p>Frequency (MHz)</p> <p>FCC PART 15C</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th colspan="2">Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2427.00</td> <td>109.82</td> <td>-----</td> <td>-----</td> <td>96.87</td> <td>32.49</td> <td>6.66</td> <td>32.20</td> <td>6.00</td> <td>376</td> <td>106 PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2427.00	109.82	-----	-----	96.87	32.49	6.66	32.20	6.00	376	106 PEAK
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																		
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																		
1	2389.95	58.65	74.00	-15.35	45.75	32.48	6.60	32.18	6.00	376	106 PEAK																																																																																	
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																			
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																		
1	2427.00	109.82	-----	-----	96.87	32.49	6.66	32.20	6.00	376	106 PEAK																																																																																	
Avg	 <p>Level (dBuV/m)</p> <p>130</p> <p>113.8</p> <p>97.5</p> <p>81.3</p> <p>65.0</p> <p>48.8</p> <p>32.5</p> <p>16.3</p> <p>0</p> <p>2310 2336 2362 2388 2414 2440</p> <p>Frequency (MHz)</p> <p>FCC PART 15C (AVG)</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th colspan="2">Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>46.71</td> <td>54.00</td> <td>-7.29</td> <td>33.81</td> <td>32.48</td> <td>6.60</td> <td>32.18</td> <td>6.00</td> <td>376</td> <td>106 AVERAGE</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2389.95	46.71	54.00	-7.29	33.81	32.48	6.60	32.18	6.00	376	106 AVERAGE	 <p>Level (dBuV/m)</p> <p>130</p> <p>113.8</p> <p>97.5</p> <p>81.3</p> <p>65.0</p> <p>48.8</p> <p>32.5</p> <p>16.3</p> <p>0</p> <p>1000 1400 1800 2200 2600 3000</p> <p>Frequency (MHz)</p> <p>FCC PART 15C (AVG)</p> <table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th colspan="2">Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2427.00</td> <td>99.03</td> <td>-----</td> <td>-----</td> <td>86.08</td> <td>32.49</td> <td>6.66</td> <td>32.20</td> <td>6.00</td> <td>376</td> <td>106 AVERAGE</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2427.00	99.03	-----	-----	86.08	32.49	6.66	32.20	6.00	376	106 AVERAGE
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																		
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																		
1	2389.95	46.71	54.00	-7.29	33.81	32.48	6.60	32.18	6.00	376	106 AVERAGE																																																																																	
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																			
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																		
1	2427.00	99.03	-----	-----	86.08	32.49	6.66	32.20	6.00	376	106 AVERAGE																																																																																	

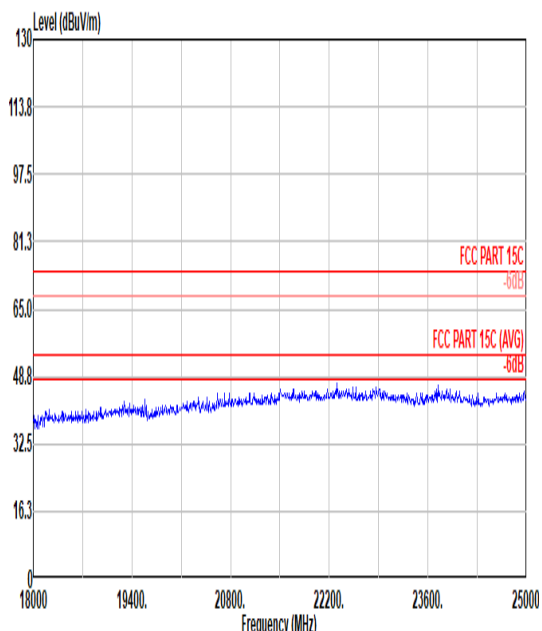
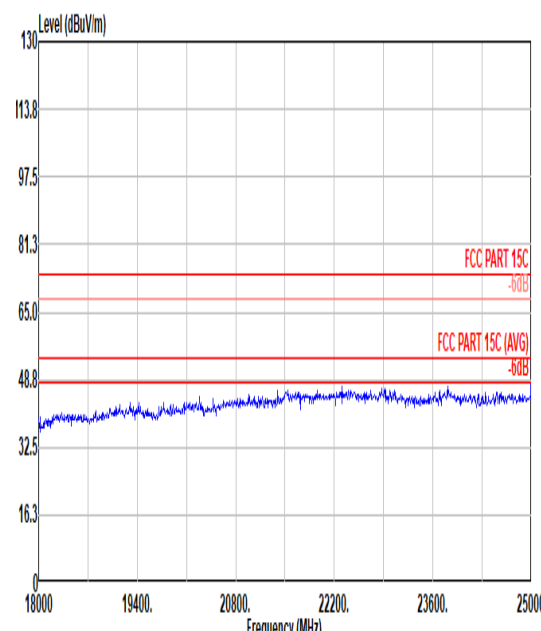


Mode	1																																												
	Band Edge - R																																												
	2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																												
ANT	CDD 6+7																																												
Pol.	Vertical	Fundamental																																											
Peak	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 2489.98</td> <td>56.41</td> <td>74.00</td> <td>-17.59</td> <td>43.27</td> <td>32.64</td> <td>6.74</td> <td>32.24</td> <td>6.00</td> <td>376</td> <td>106</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1 2489.98	56.41	74.00	-17.59	43.27	32.64	6.74	32.24	6.00	376	106	PEAK	Blank
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																			
1 2489.98	56.41	74.00	-17.59	43.27	32.64	6.74	32.24	6.00	376	106	PEAK																																		
Avg	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 2483.50</td> <td>44.30</td> <td>54.00</td> <td>-9.70</td> <td>31.20</td> <td>32.60</td> <td>6.73</td> <td>32.23</td> <td>6.00</td> <td>376</td> <td>106</td> <td>AVERAGE</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1 2483.50	44.30	54.00	-9.70	31.20	32.60	6.73	32.23	6.00	376	106	AVERAGE	Blank
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																			
1 2483.50	44.30	54.00	-9.70	31.20	32.60	6.73	32.23	6.00	376	106	AVERAGE																																		



Mode	1																																																																																																																			
	Harmonic																																																																																																																			
	2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																																																																																																			
ANT	CDD 6+7																																																																																																																			
Pol.	Horizontal	Vertical																																																																																																																		
Peak Avg	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4854.00</td> <td>42.04</td> <td>74.00</td> <td>-31.96</td> <td>59.59</td> <td>34.19</td> <td>9.50</td> <td>61.24</td> <td>0.00</td> <td>---</td> <td>---</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>7281.00</td> <td>43.93</td> <td>74.00</td> <td>-30.07</td> <td>57.25</td> <td>35.66</td> <td>11.68</td> <td>60.66</td> <td>0.00</td> <td>---</td> <td>---</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4854.00	42.04	74.00	-31.96	59.59	34.19	9.50	61.24	0.00	---	---	PEAK	2	7281.00	43.93	74.00	-30.07	57.25	35.66	11.68	60.66	0.00	---	---	PEAK	<table border="1"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4854.00</td> <td>42.13</td> <td>74.00</td> <td>-31.87</td> <td>59.68</td> <td>34.19</td> <td>9.50</td> <td>61.24</td> <td>0.00</td> <td>---</td> <td>---</td> <td>PEAK</td> </tr> <tr> <td>2</td> <td>7281.00</td> <td>43.73</td> <td>74.00</td> <td>-30.27</td> <td>57.05</td> <td>35.66</td> <td>11.68</td> <td>60.66</td> <td>0.00</td> <td>---</td> <td>---</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4854.00	42.13	74.00	-31.87	59.68	34.19	9.50	61.24	0.00	---	---	PEAK	2	7281.00	43.73	74.00	-30.27	57.05	35.66	11.68	60.66	0.00	---	---	PEAK
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																										
1	4854.00	42.04	74.00	-31.96	59.59	34.19	9.50	61.24	0.00	---	---	PEAK																																																																																																								
2	7281.00	43.93	74.00	-30.07	57.25	35.66	11.68	60.66	0.00	---	---	PEAK																																																																																																								
Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																										
1	4854.00	42.13	74.00	-31.87	59.68	34.19	9.50	61.24	0.00	---	---	PEAK																																																																																																								
2	7281.00	43.73	74.00	-30.27	57.05	35.66	11.68	60.66	0.00	---	---	PEAK																																																																																																								



Mode	1	
	18G-25G	
	2400-2483.5_802.11ax HE40_CH04_Full_2427MHz	
ANT	CDD 6+7	
Pol.	Horizontal	Vertical
Peak Avg		



Mode	1																																																																																																																																																																																																																																
	30-1G																																																																																																																																																																																																																																
	2400-2483.5_802.11ax HE40_CH04_Full_2427MHz																																																																																																																																																																																																																																
ANT	CDD 6+7																																																																																																																																																																																																																																
Pol.	Horizontal	Vertical																																																																																																																																																																																																																															
QP																																																																																																																																																																																																																																	
	<table border="1"> <thead> <tr> <th></th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th></th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.97</td> <td>21.90</td> <td>40.00</td> <td>-18.10</td> <td>29.01</td> <td>25.09</td> <td>0.76</td> <td>32.96</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>55.22</td> <td>19.60</td> <td>40.00</td> <td>-20.40</td> <td>38.03</td> <td>13.31</td> <td>1.02</td> <td>32.76</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>130.88</td> <td>22.91</td> <td>43.50</td> <td>-20.59</td> <td>36.37</td> <td>17.56</td> <td>1.69</td> <td>32.71</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>303.54</td> <td>19.10</td> <td>46.00</td> <td>-26.90</td> <td>29.92</td> <td>19.43</td> <td>2.57</td> <td>32.82</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>514.03</td> <td>25.10</td> <td>46.00</td> <td>-20.90</td> <td>31.04</td> <td>24.33</td> <td>3.15</td> <td>33.42</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>772.05</td> <td>27.82</td> <td>46.00</td> <td>-18.18</td> <td>29.18</td> <td>27.78</td> <td>4.14</td> <td>33.28</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	30.97	21.90	40.00	-18.10	29.01	25.09	0.76	32.96	0.00	---	---	Peak	2	55.22	19.60	40.00	-20.40	38.03	13.31	1.02	32.76	0.00	---	---	Peak	3	130.88	22.91	43.50	-20.59	36.37	17.56	1.69	32.71	0.00	---	---	Peak	4	303.54	19.10	46.00	-26.90	29.92	19.43	2.57	32.82	0.00	---	---	Peak	5	514.03	25.10	46.00	-20.90	31.04	24.33	3.15	33.42	0.00	---	---	Peak	6	772.05	27.82	46.00	-18.18	29.18	27.78	4.14	33.28	0.00	---	---	Peak	<table border="1"> <thead> <tr> <th></th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th></th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.00</td> <td>22.04</td> <td>40.00</td> <td>-17.96</td> <td>28.49</td> <td>25.74</td> <td>0.76</td> <td>32.95</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>114.39</td> <td>16.53</td> <td>43.50</td> <td>-26.97</td> <td>30.61</td> <td>17.12</td> <td>1.59</td> <td>32.79</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>319.06</td> <td>19.32</td> <td>46.00</td> <td>-26.68</td> <td>29.76</td> <td>19.82</td> <td>2.63</td> <td>32.89</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>440.31</td> <td>22.77</td> <td>46.00</td> <td>-23.23</td> <td>30.07</td> <td>22.75</td> <td>3.11</td> <td>33.16</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>619.76</td> <td>26.03</td> <td>46.00</td> <td>-19.97</td> <td>29.58</td> <td>26.29</td> <td>3.68</td> <td>33.52</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>789.51</td> <td>29.24</td> <td>46.00</td> <td>-16.76</td> <td>30.30</td> <td>28.04</td> <td>4.19</td> <td>33.29</td> <td>0.00</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	30.00	22.04	40.00	-17.96	28.49	25.74	0.76	32.95	0.00	---	---	Peak	2	114.39	16.53	43.50	-26.97	30.61	17.12	1.59	32.79	0.00	---	---	Peak	3	319.06	19.32	46.00	-26.68	29.76	19.82	2.63	32.89	0.00	---	---	Peak	4	440.31	22.77	46.00	-23.23	30.07	22.75	3.11	33.16	0.00	---	---	Peak	5	619.76	26.03	46.00	-19.97	29.58	26.29	3.68	33.52	0.00	---	---	Peak	6	789.51	29.24	46.00	-16.76	30.30	28.04	4.19	33.29	0.00	---	---
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																																																																																																																								
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																																																																																																																							
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																																						
1	30.97	21.90	40.00	-18.10	29.01	25.09	0.76	32.96	0.00	---	---	Peak																																																																																																																																																																																																																					
2	55.22	19.60	40.00	-20.40	38.03	13.31	1.02	32.76	0.00	---	---	Peak																																																																																																																																																																																																																					
3	130.88	22.91	43.50	-20.59	36.37	17.56	1.69	32.71	0.00	---	---	Peak																																																																																																																																																																																																																					
4	303.54	19.10	46.00	-26.90	29.92	19.43	2.57	32.82	0.00	---	---	Peak																																																																																																																																																																																																																					
5	514.03	25.10	46.00	-20.90	31.04	24.33	3.15	33.42	0.00	---	---	Peak																																																																																																																																																																																																																					
6	772.05	27.82	46.00	-18.18	29.18	27.78	4.14	33.28	0.00	---	---	Peak																																																																																																																																																																																																																					
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																																																																																																																								
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																																																																																																																							
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																																						
1	30.00	22.04	40.00	-17.96	28.49	25.74	0.76	32.95	0.00	---	---	Peak																																																																																																																																																																																																																					
2	114.39	16.53	43.50	-26.97	30.61	17.12	1.59	32.79	0.00	---	---	Peak																																																																																																																																																																																																																					
3	319.06	19.32	46.00	-26.68	29.76	19.82	2.63	32.89	0.00	---	---	Peak																																																																																																																																																																																																																					
4	440.31	22.77	46.00	-23.23	30.07	22.75	3.11	33.16	0.00	---	---	Peak																																																																																																																																																																																																																					
5	619.76	26.03	46.00	-19.97	29.58	26.29	3.68	33.52	0.00	---	---	Peak																																																																																																																																																																																																																					
6	789.51	29.24	46.00	-16.76	30.30	28.04	4.19	33.29	0.00	---	---	Peak																																																																																																																																																																																																																					





## Appendix B. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
6+7	802.11ax HE40	100	-	-	10Hz

802.11ax HE40

