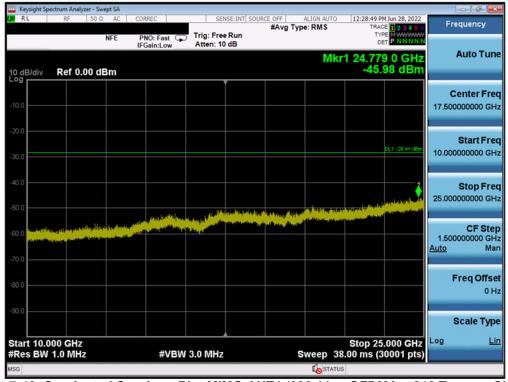


RL	Spectrum Analyz RF	50 Ω AC		SENSE:IN	SOURCE OFF	ALIGN AUTO	12:28:27 PM Jun 28, 2022	
		NFE	PNO: Fast		#Avg Ty		TRACE 1 2 3 4 5 TYPE M	Frequency
0 dB/div	Ref 15	.00 dBm				M	(r1 2.556 1 GH) -40.16 dBn	Auto Tur
5.00								Center Fre 5.015000000 GF
15.00								Start Fre 30.000000 Mł
35.0							DL1 -28.41 dBr	Stop Fro 10.000000000 G
45.0	ng di Alikan aprila di An Na di Katangan di Kadalar				la tin consta por la la casica da la ca nomena de materia a casicario			CF Ste 997.000000 MI <u>Auto</u> M
65.0								Freq Offs 0
75.0							Stop 10.000 GHz	Scale Typ
Res BV	V 1.0 MHz		#VB\	V 3.0 MHz		Sweep 18	3.00 ms (30001 pts	2

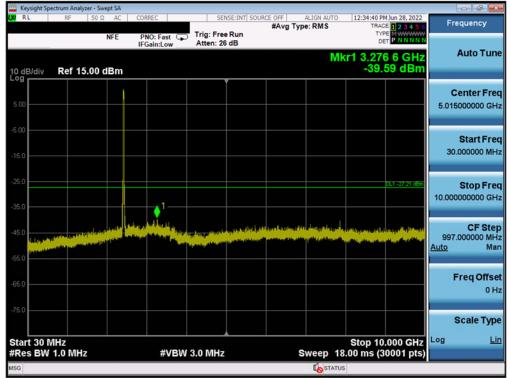
Plot 7-39. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)



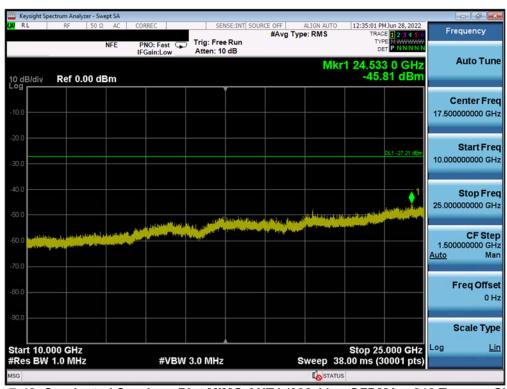
Plot 7-40. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
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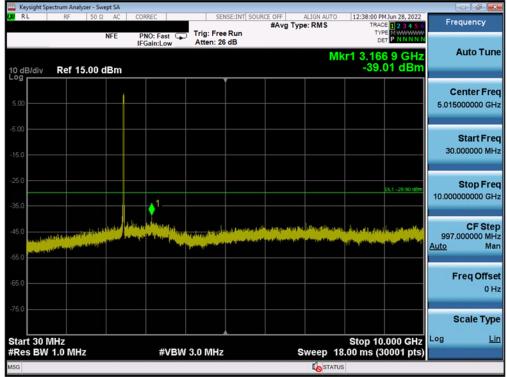
Plot 7-41. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)



Plot 7-42. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 63		
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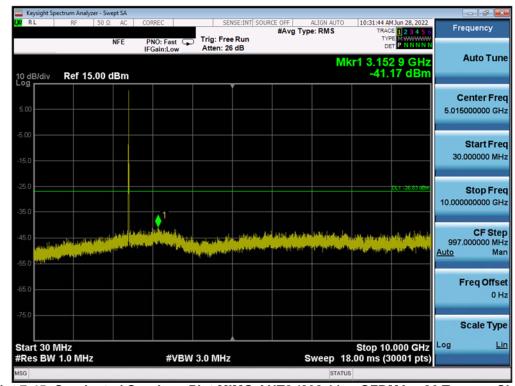
Plot 7-43. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)



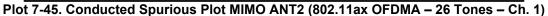
Plot 7-44. Conducted Spurious Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

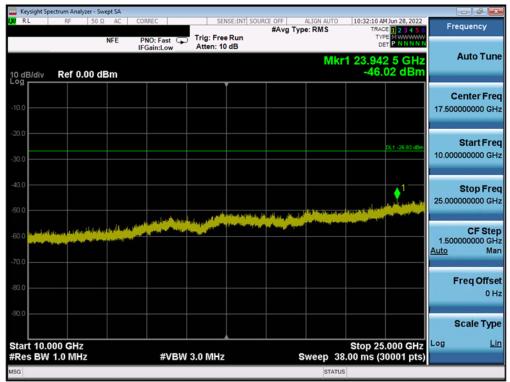
FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 45 of 63		
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h	<u>.</u>		V9.0 02/01/2019		





#### **MIMO Antenna-2 Conducted Spurious Emissions**





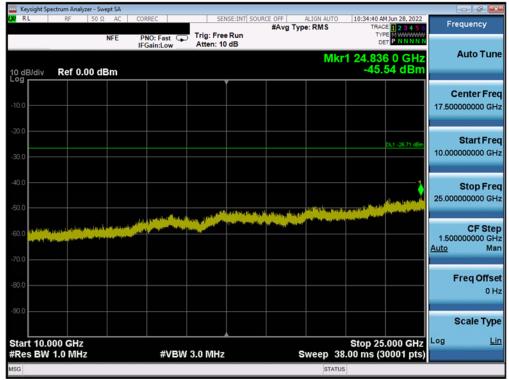
Plot 7-46. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 1)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 46 of 63		
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			V9.0 02/01/2019		



RL	RF	50 Ω	AC	CORREC	SEN	SE:INT SOUR		ALIGN AUTO		1 Jun 28, 2022	Frequency
		N	IFE	PNO: Fast 🖵	Trig: Free		#Avg Typ	e: RMS	TYP	E 1 2 3 4 5 6 E M WWWWW T P N N N N	Frequency
				IFGain:Low	Atten: 26	dB		N.C.			Auto Tu
10 dB/div Log	Ref 1	5.00 dl	Bm						-40.	6 6 GHz 52 dBm	
											Center Fr
5.00											5.015000000 G
5.00											
											Start Fr 30.000000 M
-15.0											50.000000 M
-25.0			4							0L1 -26.71 dBm	Stop Fr
-35.0											10.00000000 G
33.0				·····							
45.0	In contrast	A CONTRACTOR			all the bar and	A set of the	A STATE OF A STATE OF A STATE	and the set	Page Antonio		CF St 997.000000 M
55.0											Auto M
											Freq Offs
-65.0											0
75.0											
											Scale Ty
Start 30 M		-		#\/D\\	3.0 MHz		_	woon 49	Stop 10	.000 GHz	Log
#Res BW	T.U IVIH	2		#VBW	5.0 WHZ		5	status		0001 pts)	

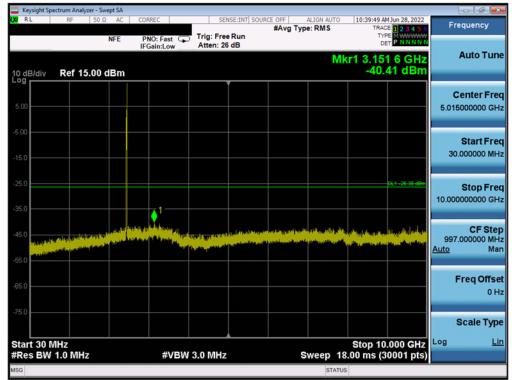
Plot 7-47. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)



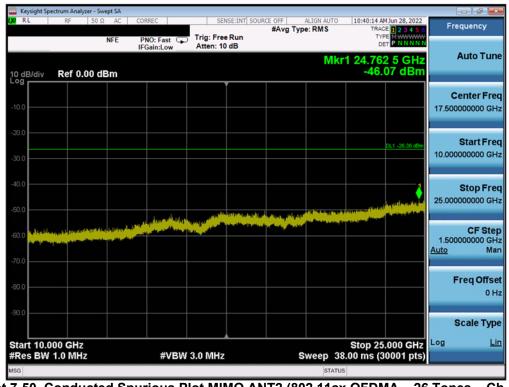
Plot 7-48. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
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Plot 7-49. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)



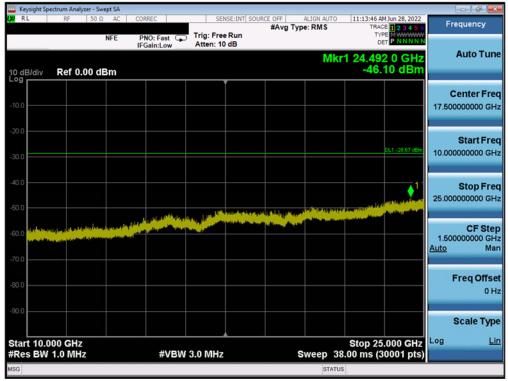
Plot 7-50. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N: Test Dates:		EUT Type:	Dage 49 of 62		
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RL	RF 50	Ω AC	CORREC		SOURCE OFF	ALIGN AUTO	11:13:26 AM Jun 28, 2022 TRACE 1 2 3 4 5 6 TYPE MUMANAAAA	Frequency
		NFE	PNO: Fast IFGain:Low	Atten: 26 dB			DET P NNNN	
0 dB/div	Ref 15.00	) dBm				M	r1 3.315 1 GHz -40.95 dBm	Auto Tun
5.00								Center Fre 5.015000000 GH
15.0								<b>Start Fre</b> 30.000000 Mi
35.0			1				DL1 -28.67 dBm	Stop Fro 10.00000000 Gi
45.0 55.0						and a subsection of the		CF Ste 997.000000 M <u>Auto</u> M
;5.0								Freq Offs 0
75.0								Scale Ty
tart 30 M Res BW	MHz 1.0 MHz		#VBW	3.0 MHz	s	weep 18	Stop 10.000 GHz .00 ms (30001 pts)	Log <u>l</u>

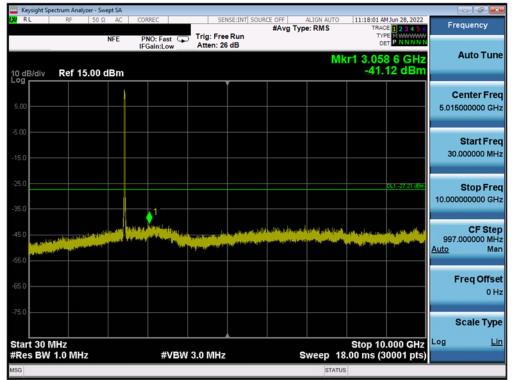
Plot 7-51. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



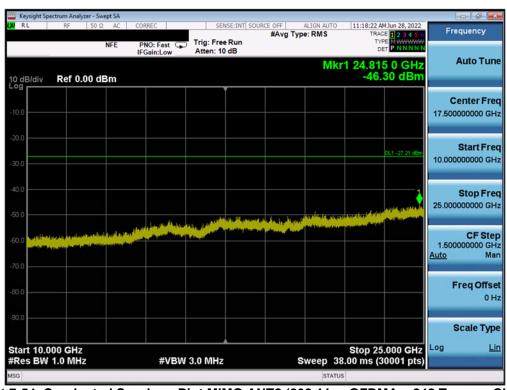
Plot 7-52. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 49 of 63		
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Plot 7-53. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)



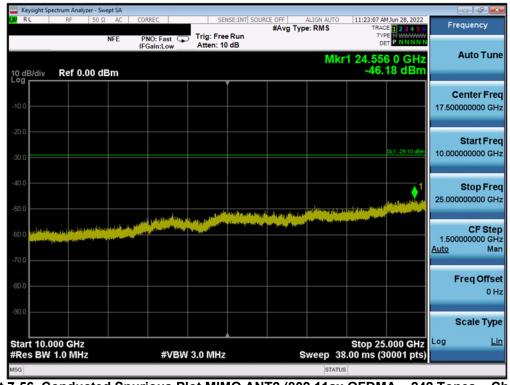
Plot 7-54. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 50 of 63		
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	· · · · ·		V9.0 02/01/2019		



	Spectrum Analyze									
X/RL	RF	50 Ω AC	CORREC		NSE:INT SOUR	CE OFF	ALIGN AUT e: RMS	TRAC	M Jun 28, 2022 CE 1 2 3 4 5 6 PE M WWWWWW	Frequency
10 dB/div Log	Ref 15.	NFE 00 dBm	PNO: Fast G	Atten: 26				Mkr1 2.48		Auto Tune
5.00										Center Fred 5.015000000 GHz
-5.00										Start Free 30.000000 MH:
-25.0			1						OL1 -29.10 dBm	Stop Free 10.000000000 GH:
-45.0				Tag and many		in a Tigori Ingelo Santa Santa Sa		a <sup>na</sup> an		CF Step 997.000000 MH: <u>Auto</u> Mar
-65.0										Freq Offse 0 H
-75.0	MHz							Stop 10	.000 GHz	Scale Type
	V 1.0 MHz		#VBW	3.0 MHz		s	weep	18.00 ms (3	0001 pts)	
MSG							STA	TUS		

Plot 7-55. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)



Plot 7-56. Conducted Spurious Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Page 51 of 63	
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### 7.7 Radiated Spurious Emission Measurements – Above 1 GHz §15.247(d) §15.205 & §15.209

#### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

### All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-9 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]		
Above 960.0 MHz	500	3		

Table 7-9. Radiated Limits

#### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

#### **Test Settings**

#### Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

#### Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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#### <u>Test Setup</u>

The EUT and measurement equipment were set up as shown in the diagram below.

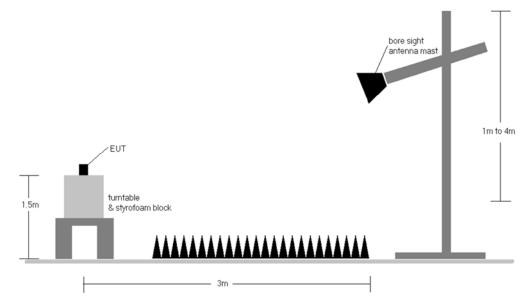


Figure 7-6. Test Instrument & Measurement Setup

#### Test Notes

- The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-9.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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- 9. Some band edge measurements were performed using a channel integration method to determine compliance with the out of band average radiated spurious emissions limit in the 2483.5 2500MHz band. Per KDB 558074 D01 v05r02 Section 13.3, a measurement was performed using a RBW of 100kHz at the frequency with highest emission outside of band edge. For integration that does not start at 2483.5MHz, consideration was taken to ensure the worst case emission is in the 1MHz spectrum. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.
- 10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

#### Sample Calculations

#### **Determining Spurious Emissions Levels**

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

#### Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

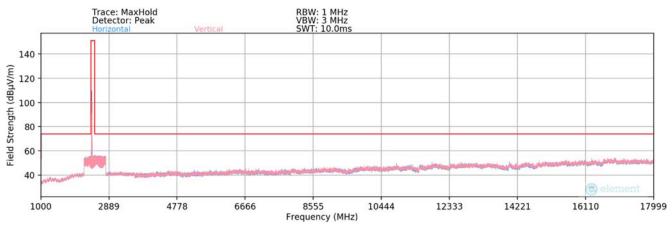
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

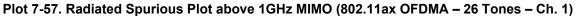
FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	Test Dates: EUT Type:   6/3/2022-7/28/2022 Portable Handset		
1M2205240063-14.PY7	6/3/2022-7/28/2022			
			1/0 0 02/01/2010	

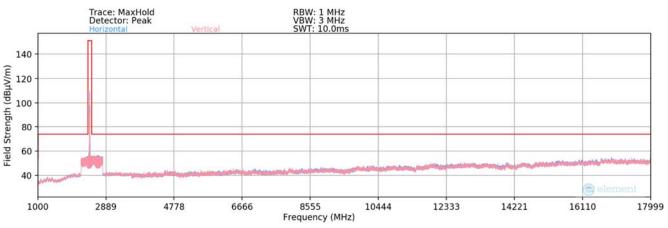
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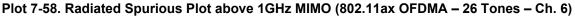


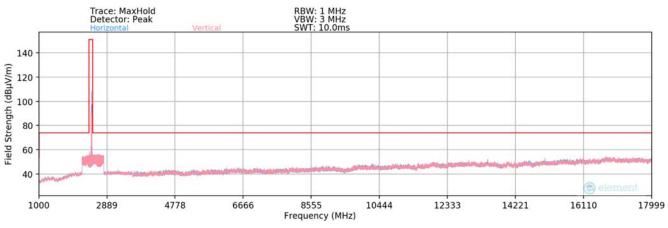
### 7.7.1 MIMO Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209







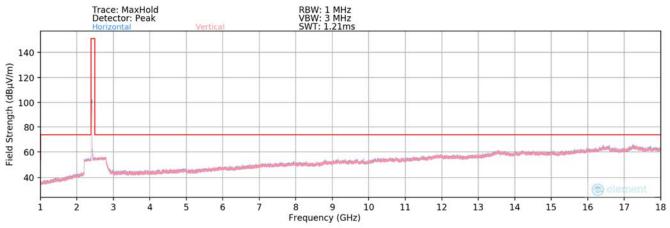




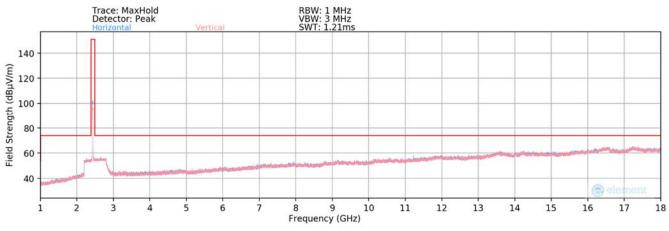
Plot 7-59. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 11)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	Test Dates: EUT Type:	
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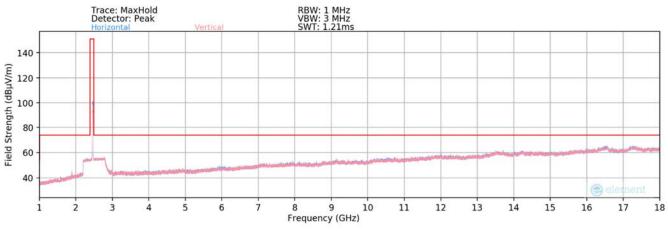




Plot 7-60. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)





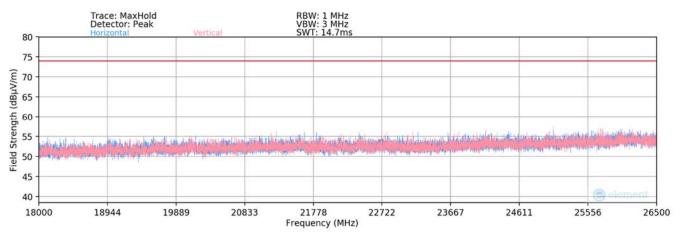


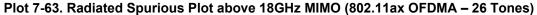
Plot 7-62. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)	
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# MIMO Radiated Spurious Emissions Measurements (Above 18GHz) §15.209







Plot 7-64. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	Fest Dates: EUT Type:			
1M2205240063-14.PY7	6/3/2022-7/28/2022	6/3/2022-7/28/2022 Portable Handset			
			1/0 0 02/01/2010		

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# MIMO Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-78.65	4.08	32.43	53.98	-21.55
4824.00	Peak	V	-	-	-66.43	4.08	44.65	73.98	-29.33
12060.00	Avg	V	-	-	-81.08	13.22	39.14	53.98	-14.84
12060.00	Peak	V	-	-	-69.52	13.22	50.70	73.98	-23.28

Table 7-10. Radiated Measurements MIMO (26 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.85	4.40	32.55	53.98	-21.43
4874.00	Peak	V	-	-	-66.27	4.40	45.13	73.98	-28.85
7311.00	Avg	V	-	-	-79.97	7.36	34.39	53.98	-19.59
7311.00	Peak	V	-	-	-68.52	7.36	45.84	73.98	-28.14
12185.00	Avg	V	-	-	-81.54	13.52	38.98	53.98	-15.00
12185.00	Peak	V	-	-	-69.46	13.52	51.06	73.98	-22.92

Table 7-11. Radiated Measurements MIMO (26 Tones)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)	
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1M2205240063-14.PY7	6/3/2022-7/28/2022	022-7/28/2022 Portable Handset	
			1/0 0 00/04/0010



Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-78.83	4.09	32.26	53.98	-21.72
4924.00	Peak	V	-	-	-67.36	4.09	43.73	73.98	-30.25
7386.00	Avg	V	-	-	-79.97	7.25	34.28	53.98	-19.70
7386.00	Peak	V	-	-	-67.32	7.25	46.93	73.98	-27.05
12310.00	Avg	V	-	-	-82.02	13.71	38.69	53.98	-15.29
12310.00	Peak	V	-	-	-70.09	13.71	50.62	73.98	-23.36

Table 7-12. Radiated Measurements MIMO (26 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.74	9.43	35.69	53.98	-18.29
4824.00	Peak	V	-	-	-69.76	9.43	46.67	73.98	-27.31
12060.00	Avg	V	-	-	-83.72	22.91	46.19	53.98	-7.79
12060.00	Peak	V	-	-	-73.82	22.91	56.09	73.98	-17.89

Table 7-13. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-80.90	9.56	35.66	53.98	-18.32
4874.00	Peak	V	-	-	-70.55	9.56	46.01	73.98	-27.97
7311.00	Avg	V	-	-	-82.53	16.39	40.86	53.98	-13.12
7311.00	Peak	V	-	-	-71.99	16.39	51.40	73.98	-22.58
12185.00	Avg	V	-	-	-84.40	23.49	46.09	53.98	-7.89
12185.00	Peak	V	-	-	-74.00	23.49	56.49	73.98	-17.49

Table 7-14. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: **Operating Frequency:** Channel:

	802.11ax OFDMA
	MCS0
	61
:	3 Meters
	2462MHz
	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-81.14	9.89	35.75	53.98	-18.23
4924.00	Peak	V	-	-	-71.08	9.89	45.81	73.98	-28.17
7386.00	Avg	V	-	-	-82.69	15.87	40.18	53.98	-13.79
7386.00	Peak	V	-	-	-72.67	15.87	50.20	73.98	-23.77
12310.00	Avg	V	-	-	-84.95	23.62	45.67	53.98	-8.31
12310.00	Peak	V	-	-	-74.24	23.62	56.38	73.98	-17.60

Table 7-15. Radiated Measurements MIMO (242 Tones)

FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)	
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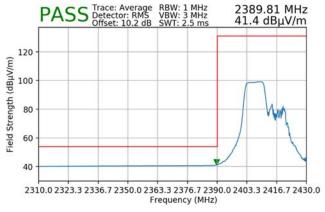


### 7.7.2 MIMO Radiated Restricted Band Edge Measurements

#### <u>§15.205 §15.209</u>

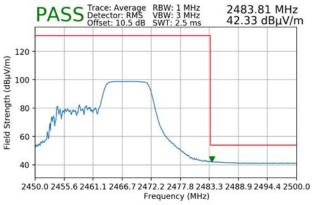
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

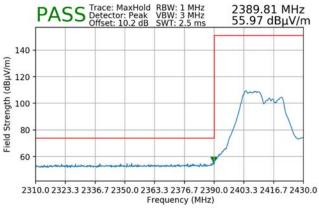


#### Plot 7-65. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

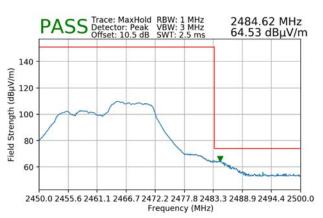
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11
Operating Frequency:	2462MHz

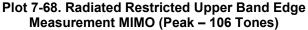


#### Plot 7-67. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



Plot 7-66. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)

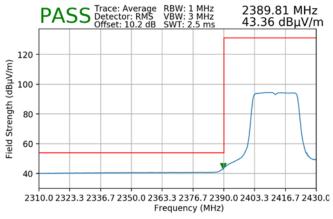




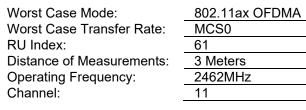
FCC ID: PY7-76056F		MEASUREMENT REPORT (CERTIFICATION)	
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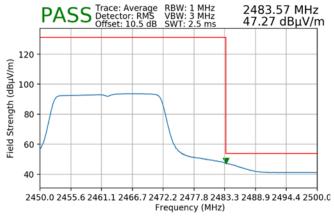


Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

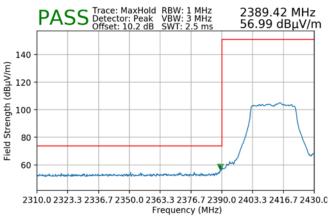


Plot 7-69. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

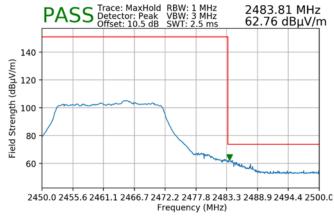








Plot 7-70. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)



Plot 7-72. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

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#### 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7-76056F** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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