



ELEMENT WASHINGTON DC LLC

7185 Oakland Mills Road, Columbia, MD 21046 USA
Tel. 410.290.6652 / Fax 410.290.6654
<http://www.element.com>

UNII DATA REFERENCING REPORT

Applicant Name:
Sony Corporation
1-7-1 Konan
Minato-ku
Tokyo, 108-0075, Japan

Date of Testing:
02/08/2023 - 03/03/2023
Test Report Issue Date:
04/17/2023
Test Site/Location:
Element Lab. Columbia, MD, USA
Test Report Serial No.:
1M2302060006-16.PY7

FCC ID:	PY7-84558E
APPLICANT:	Sony Corporation

Application Type: Certification
EUT Type: Portable Handset
Frequency Range: 5180 – 5825MHz
Modulation Type: OFDM/OFDMA
FCC Classification: Unlicensed National Information Infrastructure TX (NII)
FCC Rule Part(s): Part 15 Subpart E (15.407)
Test Procedure(s): ANSI C63.10-2013, KDB 484596 D01 v01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President



FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 1 of 15



TABLE OF CONTENTS

1.0	DATA REFERENCING	3
1.1	Introduction	3
1.2	Differences Between EUT and Referenced Devices	3
1.3	Spot Check Verification Data	3
1.4	Reference Section	15

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 2 of 15



1.0 DATA REFERENCING

1.1 Introduction

The test results presented in this filing reference the Certification test results for **FCC ID: PY7-12907W**.

Results are referenced from the following test report S/Ns: R14634918-E5a v3, R14634918-E6a v3, R14634918-E7a v3, R14634918-E5b v3, R14634918-E6b v3, R14634918-E7b v3

The applicant takes full responsibility to ensure that all referenced test results represent compliance for the equipment under test in this filing.

1.2 Differences Between EUT and Referenced Devices

The equipment under test (EUT) in this filing (**FCC ID: PY7-84558E**) and the reference device certified under **FCC ID: PY7-12907W** share a common design. The EUT differs from the reference device with respect to the components and antennas used for licensed (cellular) bands. The components used for 2.4GHz and 5GHz WiFi and BT, including antennas and output power are identical between the EUT and reference device.

1.3 Spot Check Verification Data

In this filing, the worst-case data and spot checks were tested on the EUT as noted below, against the reference device. All the necessary test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2013. Please note that the output power was not compared to the reference device, but to the tune-up to ensure that powers remain within tolerance.

For the EUT in this filing (**FCC ID: PY7-84558E**), spot checks of the following tests were performed:

- Output Power Measurements
- Radiated Spurious Emission Measurements
- Radiated Band Edge Measurements

Each spot check test on the EUT was performed using the same procedures and settings that were used to perform the test on the corresponding reference device.

In instances where the spot-checked test results are higher than the reference test results, these measurements were found to be noise floor. The difference in noise floor readings is due to variation in system and equipment used.

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 3 of 15



1.3.1 Output Power Measurements (OFDM)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5310	62	AVG	11.12	9.79	13.52	23.98	-10.46
5510	102	AVG	11.47	9.62	13.65	23.98	-10.33	
5795	159	AVG	11.49	9.45	13.60	30.00	-16.40	

Table 1-1. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5210	42	AVG	11.32	9.48	13.51	23.98	-10.47

Table 1-2. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 4 of 15



1.3.2 Output Power Measurements (OFDMA)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					4				
	ANT1	ANT2	MIMO						
	5785	157	AVG	26T	8.95	8.33	11.66	30.00	-18.34

Table 1-3. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power (26 Tones)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					37				
	ANT1	ANT2	MIMO						
	5180	36	AVG	52T	11.23	11.42	14.34	23.98	-9.64
	5500	100	AVG	52T	11.48	11.10	14.30	22.80	-8.50

Table 1-4. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power (52 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					67				
	ANT1	ANT2	MIMO						
	5775	155	AVG	996T	11.46	11.23	14.36	30.00	-15.64

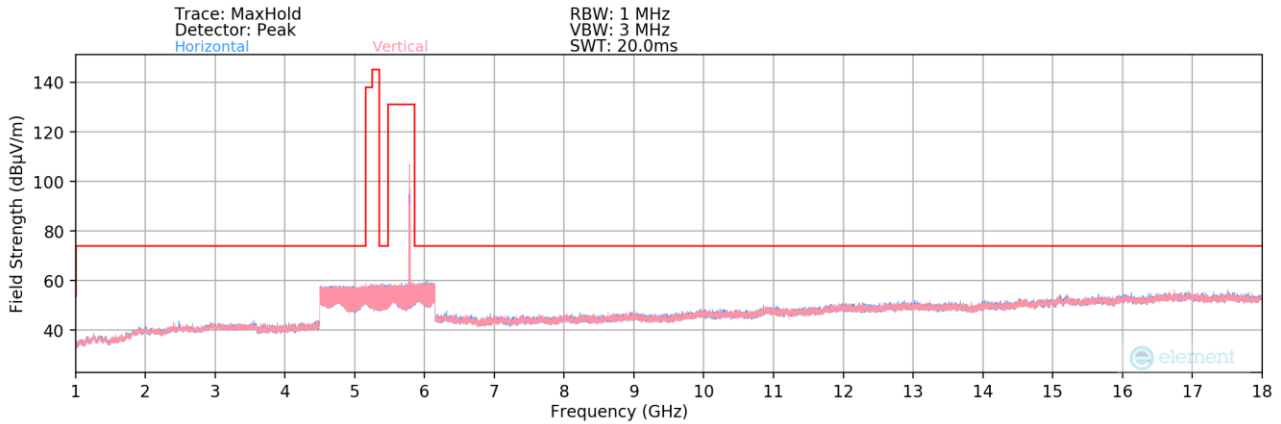
Table 1-5. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power (996 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					67				
	ANT1	ANT2	MIMO						
	5250	50	AVG	996T	9.24	8.85	12.06	23.98	-11.92

Table 1-6. MIMO 160MHz Lower BW 802.11ax (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 5 of 15

1.3.3 Worst Case Radiated Spurious Emissions Measurements



Plot 1-1. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [HV]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 9091.00	Average	H	-	-	-80.44	9.11	0.00	35.67	53.98	-18.31
* 9091.00	Peak	H	-	-	-68.51	9.11	0.00	47.60	73.98	-26.38

Table 1-7. Radiated Measurements MIMO (26 Tones)

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.08	34.86	Pk	34.1	-22.2	0	46.76	54	-7.24	74	-27.24	-	-	0-360	199	H
2	** 5.35339	35.77	Pk	34.6	-22.7	0	47.67	54	-6.33	74	-26.33	-	-	0-360	101	H
6	*** 5.43631	35.45	Pk	34.4	-23.5	0	46.35	54	-7.65	74	-27.65	-	-	0-360	101	V
3	*** 9.09078	37.79	Pk	36.1	-26	0	47.89	54	-6.11	74	-26.11	-	-	0-360	101	H
4	*** 9.49664	36.12	Pk	36.6	-25.8	0	46.92	54	-7.08	74	-27.08	-	-	0-360	199	H
7	*** 9.06117	38.7	PK-U	36.1	-26	0	48.8	-	-	74	-25.2	-	-	131	378	V
	*** 9.06392	26.23	ADV	36.1	-25.8	.47	37	54	-17	-	-	-	-	131	378	V
8	*** 9.3653	36.11	Pk	36.5	-25.6	0	47.01	54	-6.99	74	-26.99	-	-	0-360	199	V
5	9.82421	37.82	PK-U	36.9	-25.2	0	49.52	-	-	-	-	68.2	-18.68	343	301	H
9	9.9261	38.13	PK-U	37	-25.1	0	50.03	-	-	-	-	68.2	-18.17	193	331	V

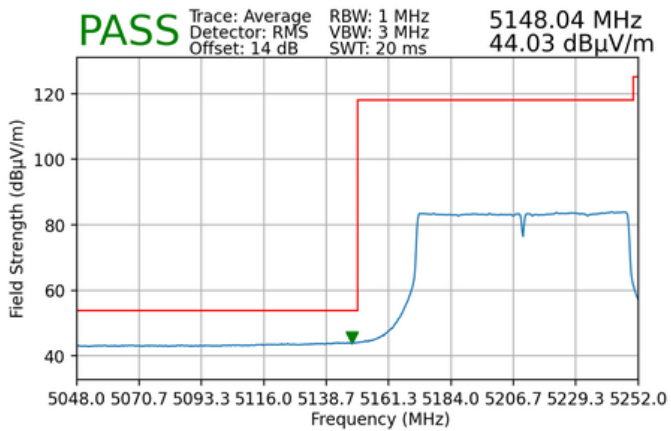
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

Figure 1-1. Reference Test Results for Table 1-9 (Report No.: R14634918-E7b v3, Page 53)

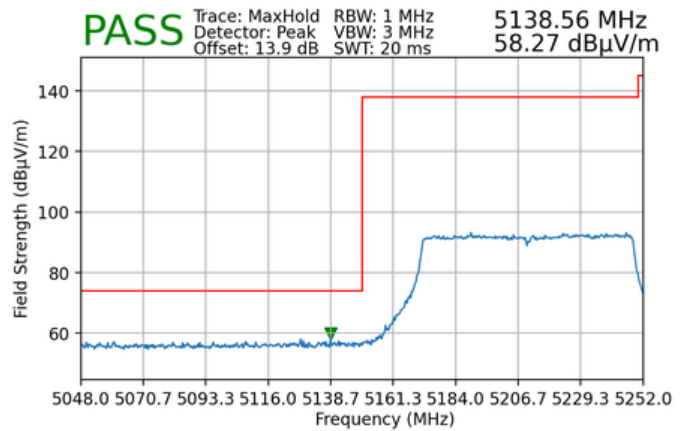
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 6 of 15

1.3.4 Worst Case Radiated Band Edge Measurements (OFDM)

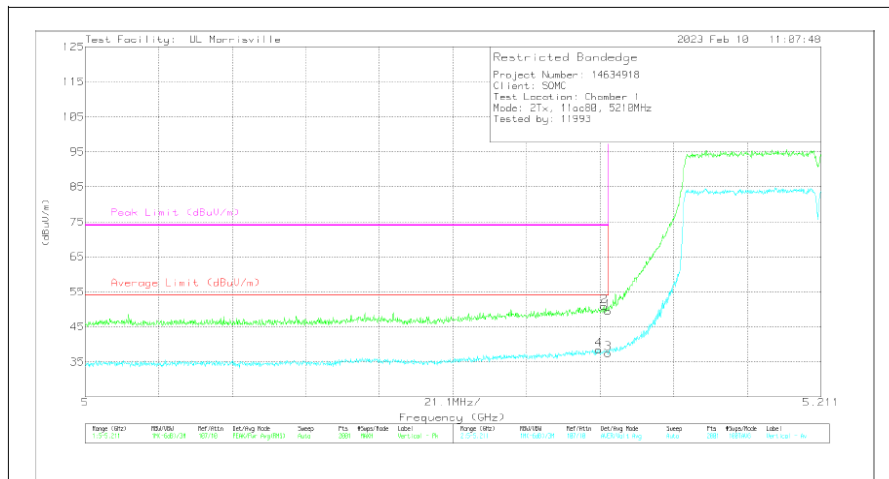
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Bandwidth:	80MHz
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 1-2. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 1-3. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14992	37.09	PK	34.3	-21.9	49.49	-	-	74	-24.51	314	116	V
2	*** 5.14876	38.43	PK	34.3	-21.8	50.93	-	-	74	-23.07	314	116	V
3	*** 5.14992	25.11	ADV	34.3	-21.9	37.51	54	-16.49	-	-	314	116	V
4	*** 5.14728	25.94	ADV	34.3	-21.7	38.54	54	-15.46	-	-	314	116	V

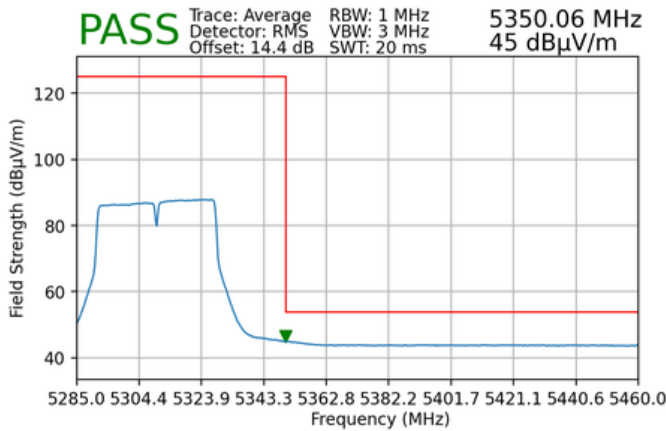
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

Figure 1-2. Reference Test Results for Plots 1-3 and 1-4 (Report No.: R14634918-E5a v3, Page 62)

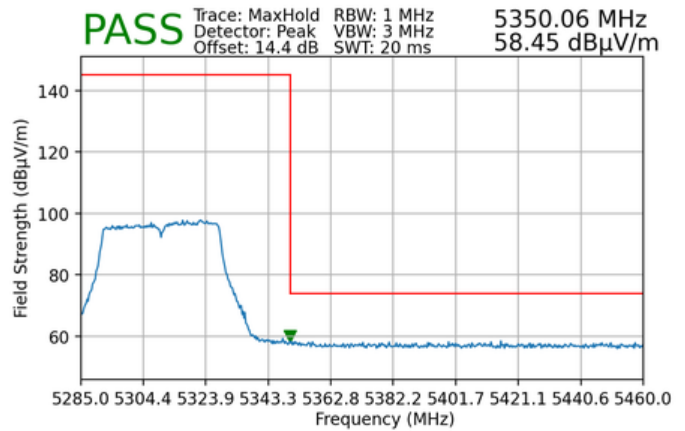
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 7 of 15



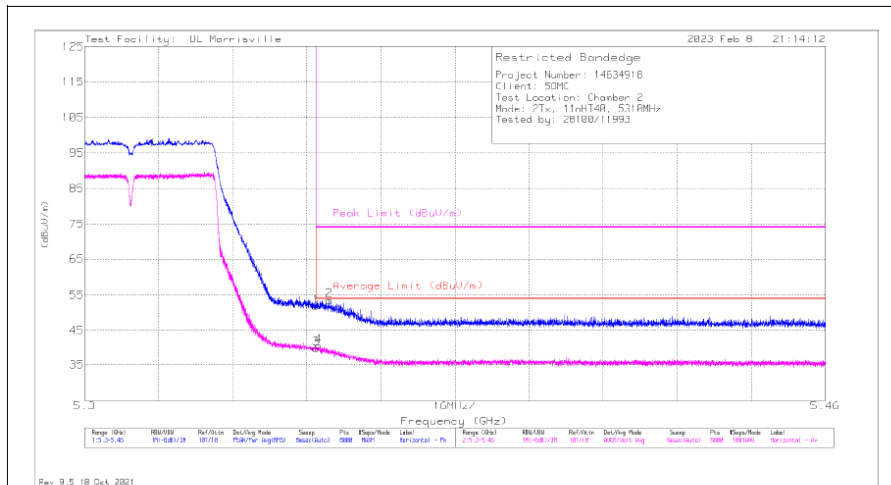
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Bandwidth: 40MHz
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



Plot 1-4. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 1-5. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	39.88	Pk	34.6	-22.7	0	51.78	-	-	74	-22.22	89	105	H
2	*** 5.35287	41.56	Pk	34.6	-22.7	0	53.46	-	-	74	-20.54	89	105	H
3	** 5.35001	27.99	ADV	34.6	-22.7	0	39.89	54	-14.11	-	-	89	105	H
4	** 5.35059	28.66	ADV	34.6	-22.7	0	40.56	54	-13.44	-	-	89	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

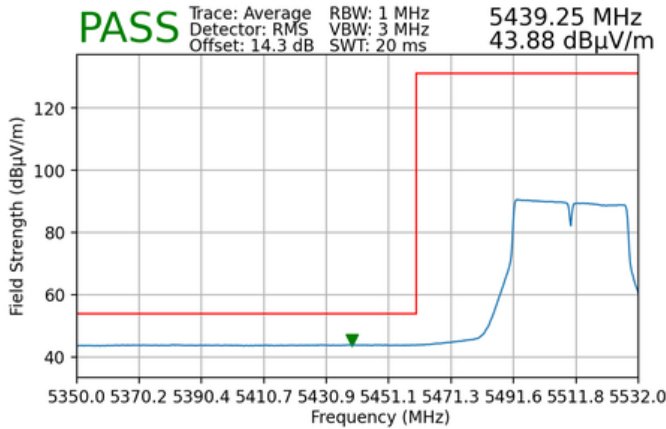
ADV - Linear Voltage Average

Figure 1-3. Reference Test Results for Plots 1-5 and 1-6 (Report No.: R14634918-E5a v3, Page 67)

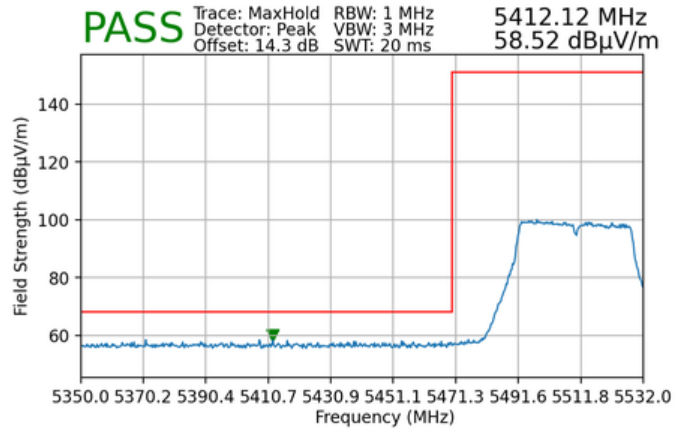
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 8 of 15



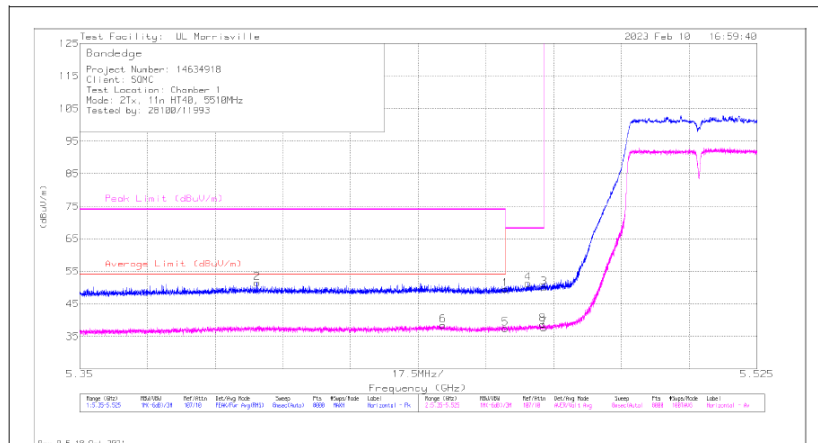
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Bandwidth: 40MHz
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



Plot 1-6. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 1-7. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	37.47	Pk	34.4	-22.3	0	49.57	-	-	74	-24.43	269	104	H
2	*** 5.39581	39.36	Pk	34.4	-22.2	0	51.56	-	-	74	-22.44	269	104	H
5	*** 5.45998	25.38	ADV	34.4	-22.3	0	37.48	54	-16.52	-	-	269	103	H
6	*** 5.44392	26.35	ADV	34.4	-22.2	0	38.55	54	-15.45	-	-	269	103	H
4	5.4658	39.25	Pk	34.4	-22.3	0	51.35	-	-	68.2	-16.85	269	104	H
8	5.46967	26.8	ADV	34.4	-22.4	0	38.8	-	-	-	-	269	103	H
3	5.46998	38.1	Pk	34.4	-22.4	0	50.1	-	-	68.2	-18.1	269	104	H
7	5.46998	25.61	ADV	34.4	-22.4	0	37.61	-	-	-	-	269	103	H

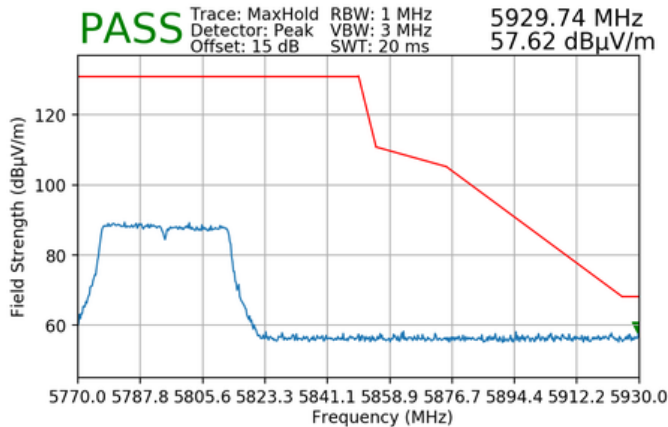
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

Figure 1-4. Reference Test Results for Plots 1-7 and 1-8 (Report No.: R14634918-E6a v3, Page 50)

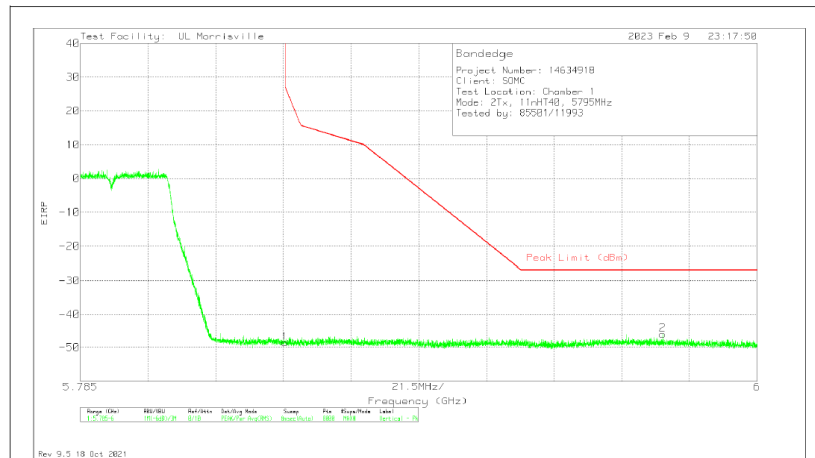
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 9 of 15



Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Bandwidth: 40MHz
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Plot 1-8. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-73.64	PK	34.9	-21.6	11.8	-48.54	26.96	-75.5	75	273	V
2	5.97	-71.4	PK	35	-21.2	11.8	-45.8	-27	-18.8	75	273	V

Pk - Peak detector

Figure 1-5. Reference Test Results for Plot 1-9 (Report No.: R14634918-E7a v3, Page 49)

Note: For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{Measured amplitude level}[\text{dBm}] + 107 + \text{Cable Loss}[\text{dB}] + \text{Antenna Factor}[\text{dB}/\text{m}]$$

And

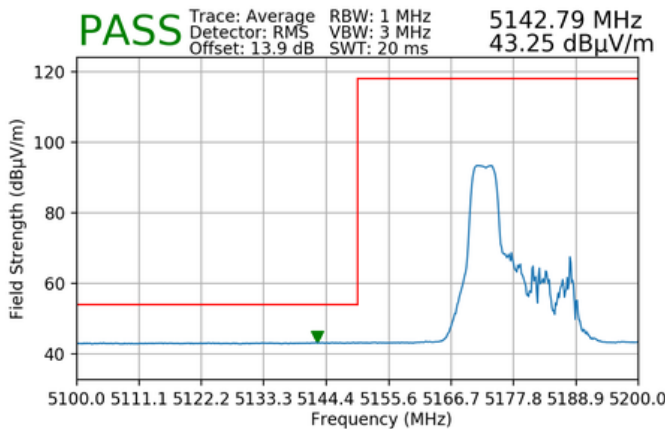
$$\text{EIRP}[\text{dBm}] = E[\text{dB}\mu\text{V}/\text{m}] + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 10 of 15

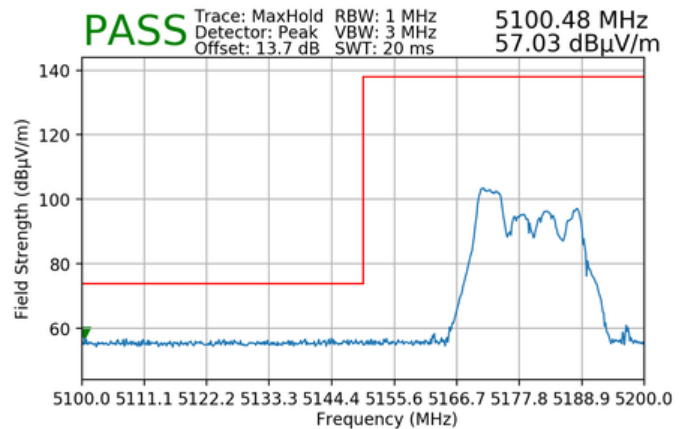
1.3.5 Worst Case Radiated Band Edge Measurements 802.11ax OFDMA

52 Tones

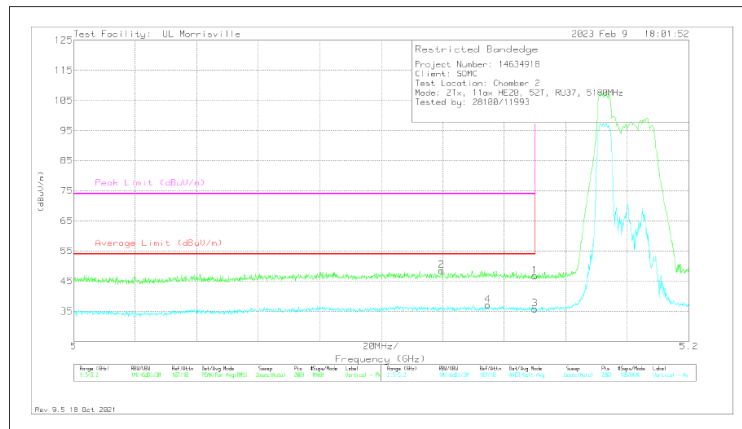
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	37
Bandwidth:	20MHz
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 1-9. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 52 Tones)



Plot 1-10. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 52 Tones)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	35.14	PK	34.2	-22.6	0	46.74	-	-	74	-27.26	306	101	V
2	*** 5.1196	36.97	PK	34.2	-22.6	0	48.57	-	-	74	-25.43	306	101	V
3	*** 5.15	23.68	ADV	34.2	-22.6	.49	35.77	54	-18.23	-	-	306	101	V
4	*** 5.1347	24.69	ADV	34.2	-22.3	.49	37.08	54	-16.92	-	-	306	101	V

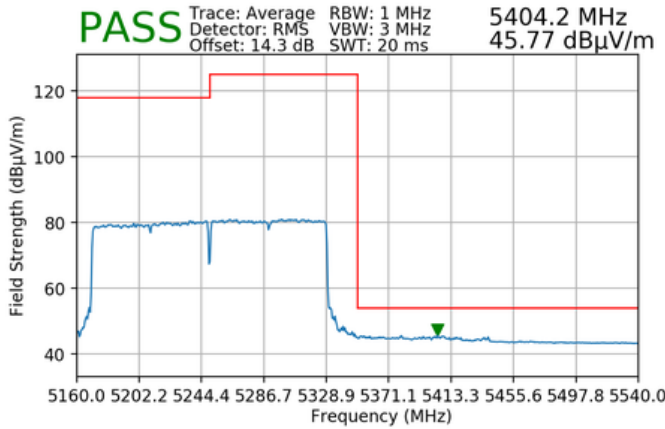
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

Figure 1-6. Reference Test Results for Plots 1-10 and 1-11 (Report No.: R14634918-E5b v3, Page 72)

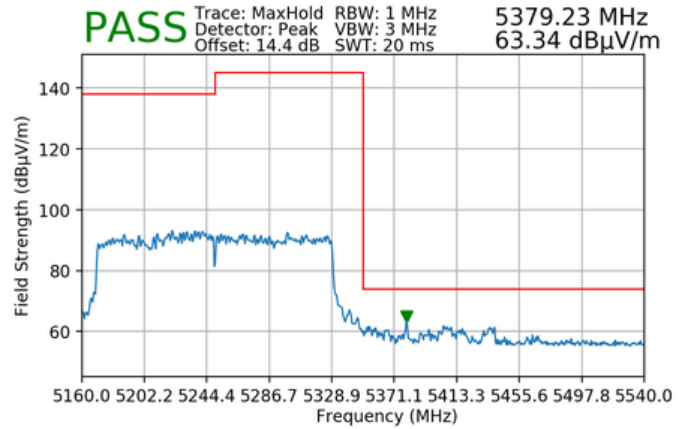
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 11 of 15

996x2 Tones

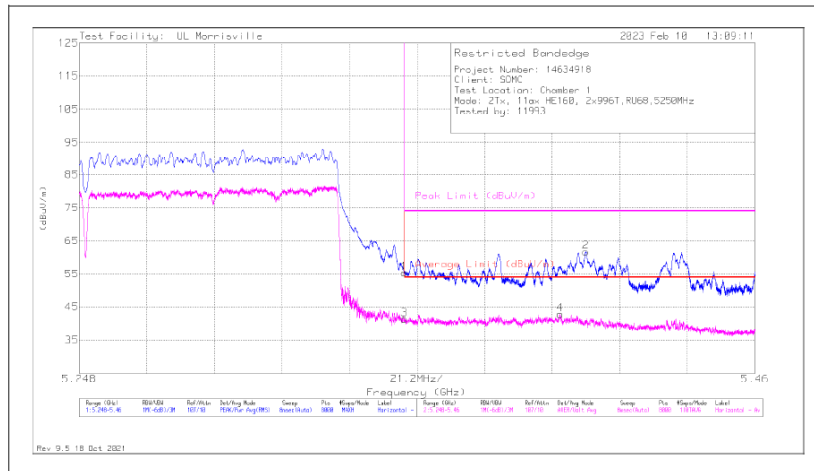
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	68
Bandwidth:	160MHz
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 1-11. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996x2 Tones)



Plot 1-12. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996x2 Tones)



Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	43.14	PK	34.4	-22.2	0	55.34	-	-	74	-18.66	269	143	H
2	*** 5.40697	49.61	PK	34.4	-22.3	0	61.71	-	-	74	-12.29	269	143	H
3	*** 5.35001	28.2	ADV	34.4	-22.2	.86	41.26	54	-12.74	-	-	269	143	H
4	*** 5.39891	29.67	ADV	34.4	-22.2	.86	42.73	54	-11.27	-	-	269	143	H

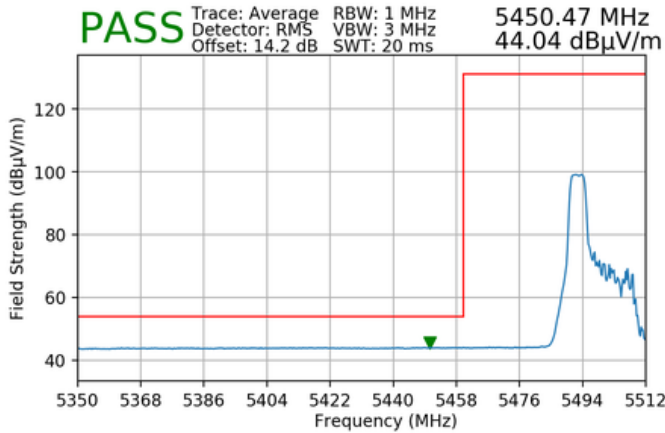
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

Figure 1-7. Reference Test Results for Plots 1-12 and 1-13 (Report No.: R14634918-E5b v3, Page 108)

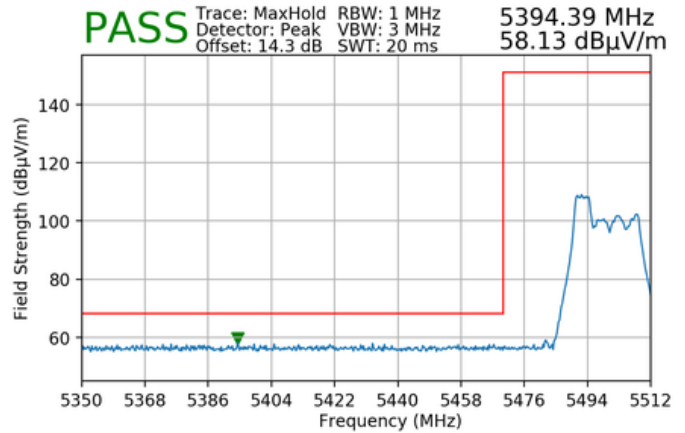
FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 12 of 15

52 Tones

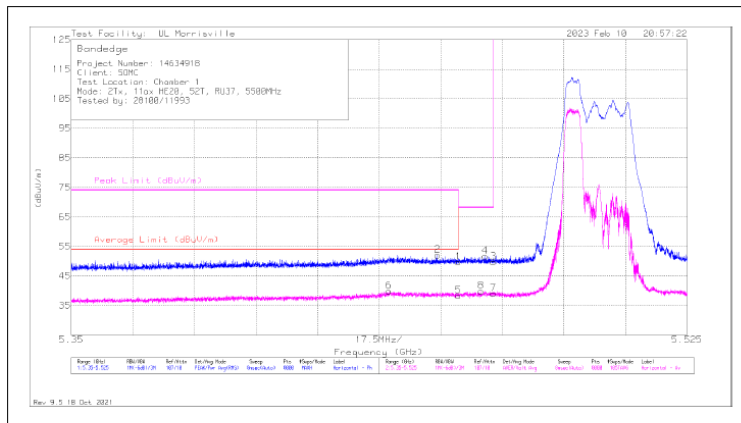
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	37
Bandwidth:	20MHz
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100



Plot 1-13. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 52 Tones)



Plot 1-14. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 52 Tones)



Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	37.6	Pk	34.4	-22.3	0	49.7	-	-	74	-24.3	267	111	H
2	*** 5.45409	40.12	Pk	34.4	-22.5	0	52.02	-	-	74	-21.98	267	111	H
5	*** 5.45998	25.71	ADV	34.4	-22.3	-49	39.3	54	-15.7	-	-	267	111	H
6	*** 5.44025	27.06	ADV	34.4	-22.1	-49	39.85	54	-14.15	-	-	267	111	H
8	5.46648	27.25	ADV	34.4	-22.3	-49	39.84	-	-	-	-	267	111	H
4	5.46762	39.63	Pk	34.4	-22.4	0	51.63	-	-	68.2	-16.57	267	111	H
3	5.46998	37.73	Pk	34.4	-22.4	0	49.73	-	-	68.2	-18.47	267	111	H
7	5.46998	26.55	ADV	34.4	-22.4	-49	39.04	-	-	-	-	267	111	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

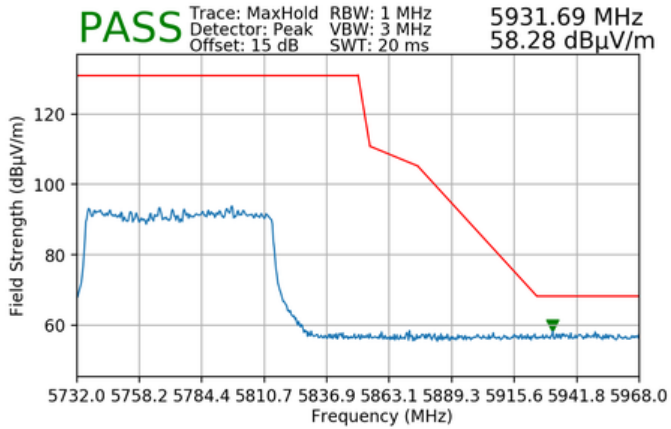
Figure 1-8. Reference Test Results for Plots 1-14 and 1-15 (Report No.: R14634918-E6b v3, Page 62)

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 13 of 15

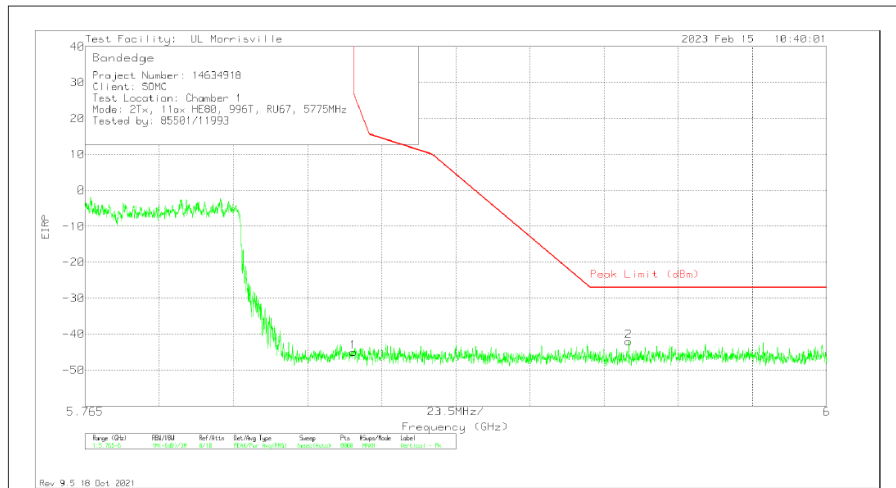


996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Bandwidth:	80MHz
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 1-15. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3 - 996 Tones)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-70.04	Pk	34.9	-21.6	11.8	0	-44.94	26.95	-71.89	42	240	V
2	5.93734	-66.79	Pk	35	-22	11.8	0	-41.99	-27	-14.99	42	240	V

Pk - Peak detector

Figure 1-9. Reference Test Results for Plot 1-16 (Report No.: R14634918-E7b v3, Page 81)

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 14 of 15



1.4 Reference Section

This section displays the source of referenced data presented for the filing of this EUT (FCC ID: PY7-84558E).

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.407(e)	6dB Bandwidth	5180 – 5825	802.11a/n/ac	PY7-12907W	R14634918-E5a v3 R14634918-E6a v3 R14634918-E7a v3	9.2
15.407(a)(1)(iv), (a)(2), (a)(3)	Maximum Conducted Output Power	5180 – 5825	802.11a/n/ac	PY7-12907W	R14634918-E5a v3 R14634918-E6a v3 R14634918-E7a v3	9.3
15.407(a)(1)(iv), (a)(2), (a)(3)	Maximum Power Spectral Density	5180 – 5825	802.11a/n/ac	PY7-12907W	R14634918-E5a v3 R14634918-E6a v3 R14634918-E7a v3	9.3
15.407(b)(1), (b)(2), (b)(3), (b)(4)	Undesirable Emissions	5180 – 5825	802.11a/n/ac	PY7-12907W	R14634918-E5a v3 R14634918-E6a v3 R14634918-E7a v3	10.1

Table 1-8. Cross-Referenced Data for UNII OFDM

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.407(e)	6dB Bandwidth	5180 – 5825	802.11ax	PY7-12907W	R14634918-E5b v3 R14634918-E6b v3 R14634918-E7b v3	9.2
15.407(a)(1)(iv), (a)(2), (a)(3)	Maximum Conducted Output Power	5180 – 5825	802.11ax	PY7-12907W	R14634918-E5b v3 R14634918-E6b v3 R14634918-E7b v3	9.3
15.407(a)(1)(iv), (a)(2), (a)(3)	Maximum Power Spectral Density	5180 – 5825	802.11ax	PY7-12907W	R14634918-E5b v3 R14634918-E6b v3 R14634918-E7b v3	9.3
15.407(b)(1), (b)(2), (b)(3), (b)(4)	Undesirable Emissions	5180 – 5825	802.11ax	PY7-12907W	R14634918-E5b v3 R14634918-E6b v3 R14634918-E7b v3	10.1

Table 1-9. Cross-Referenced Data for UNII OFDMA

FCC ID: PY7-84558E	UNII DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-16.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 15 of 15