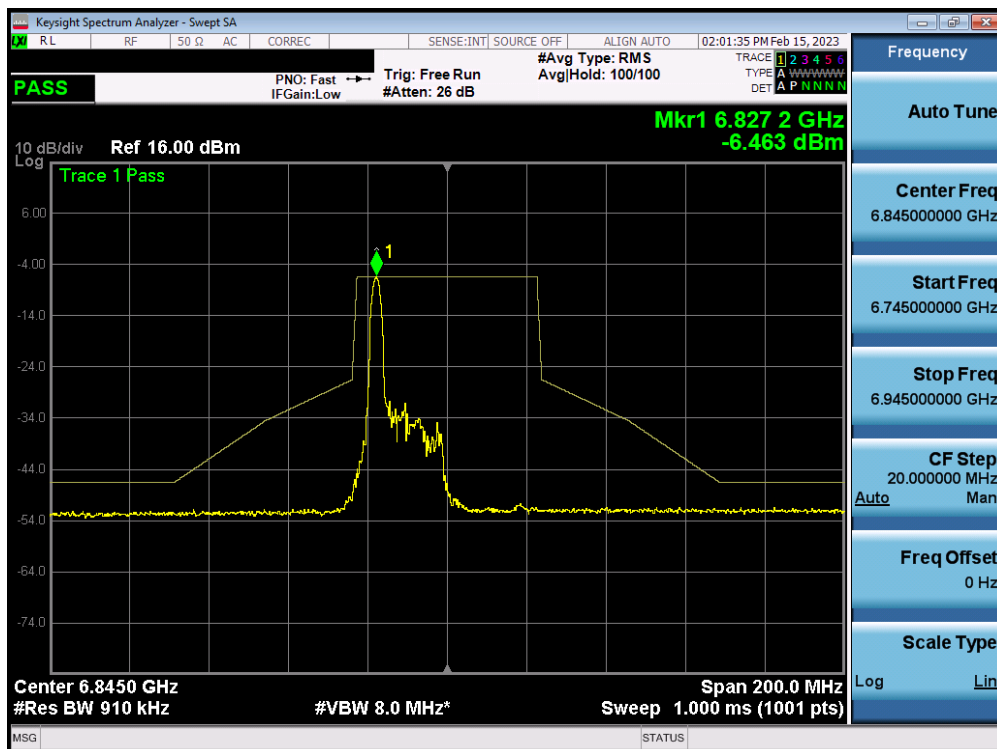
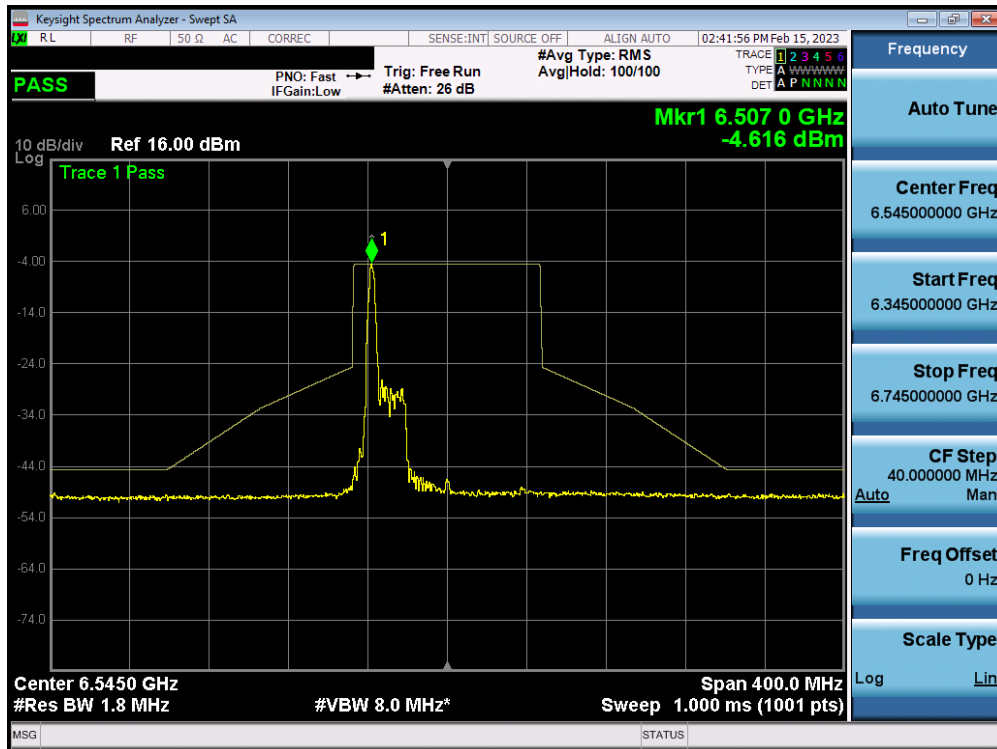


Plot 7-425. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 155)

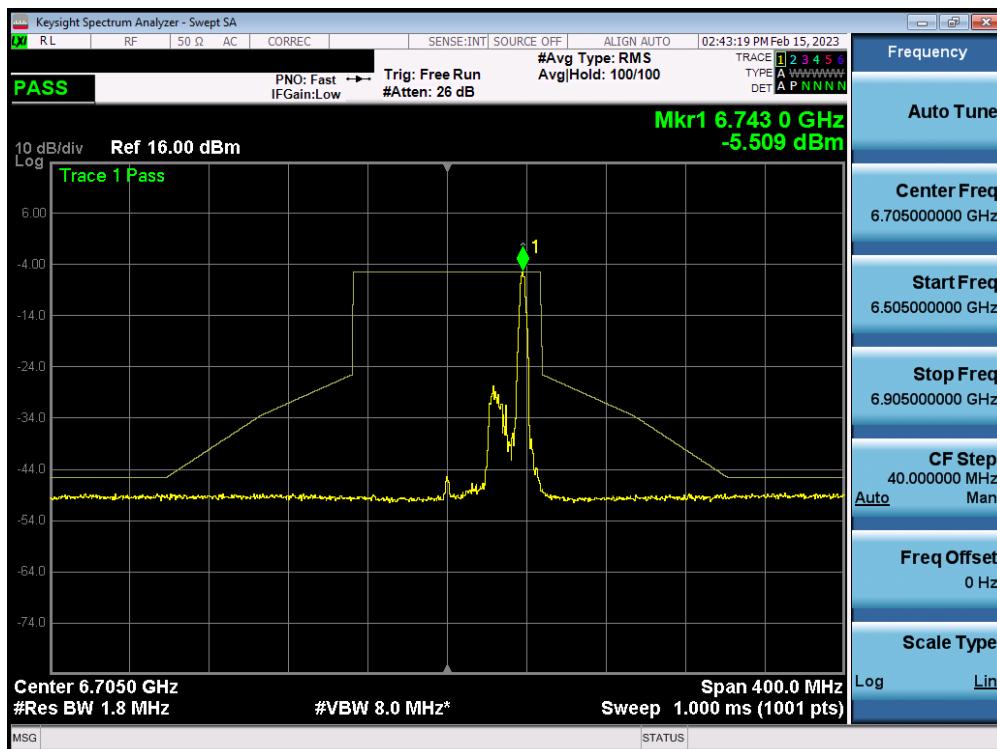


Plot 7-426. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 179)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
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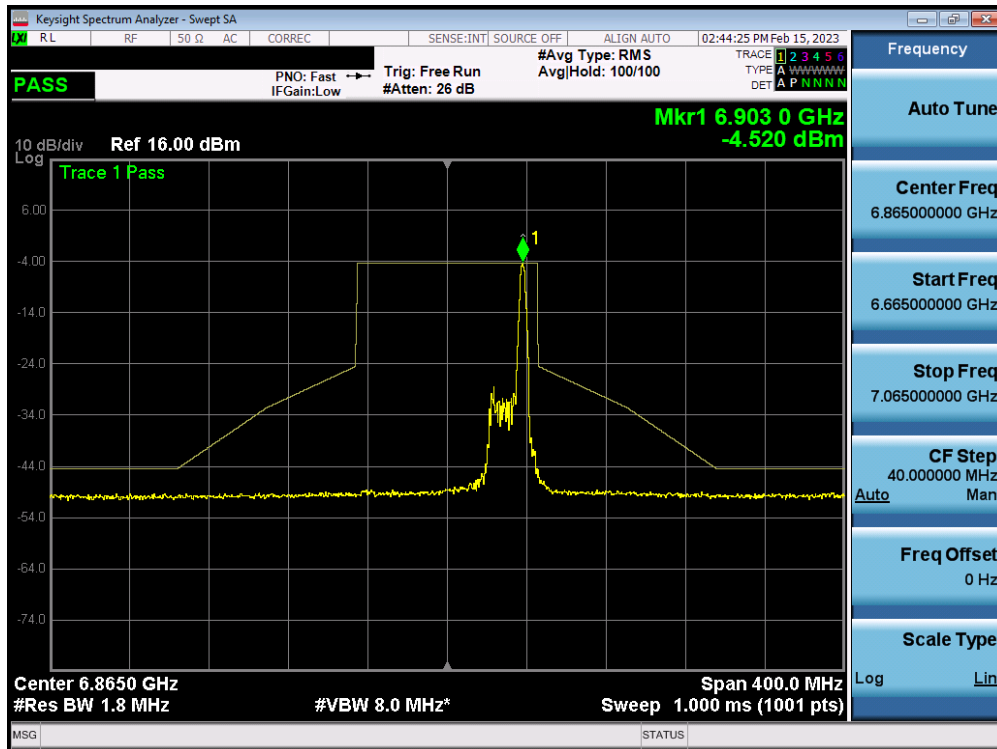


Plot 7-427. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 119)

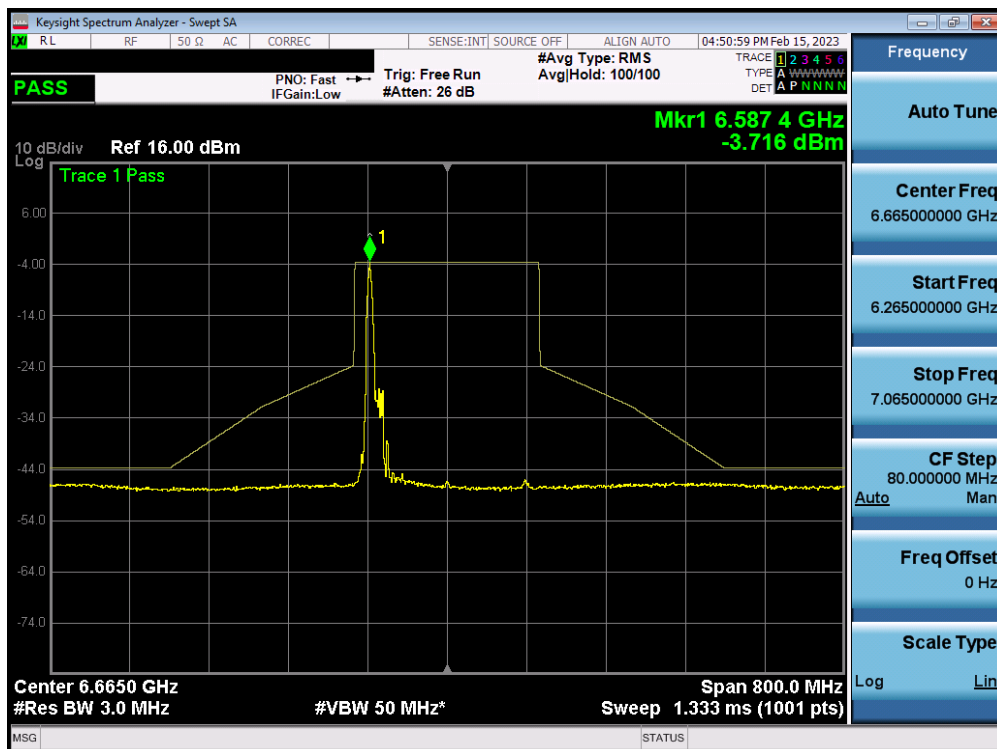


Plot 7-428. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 151)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 253 of 330

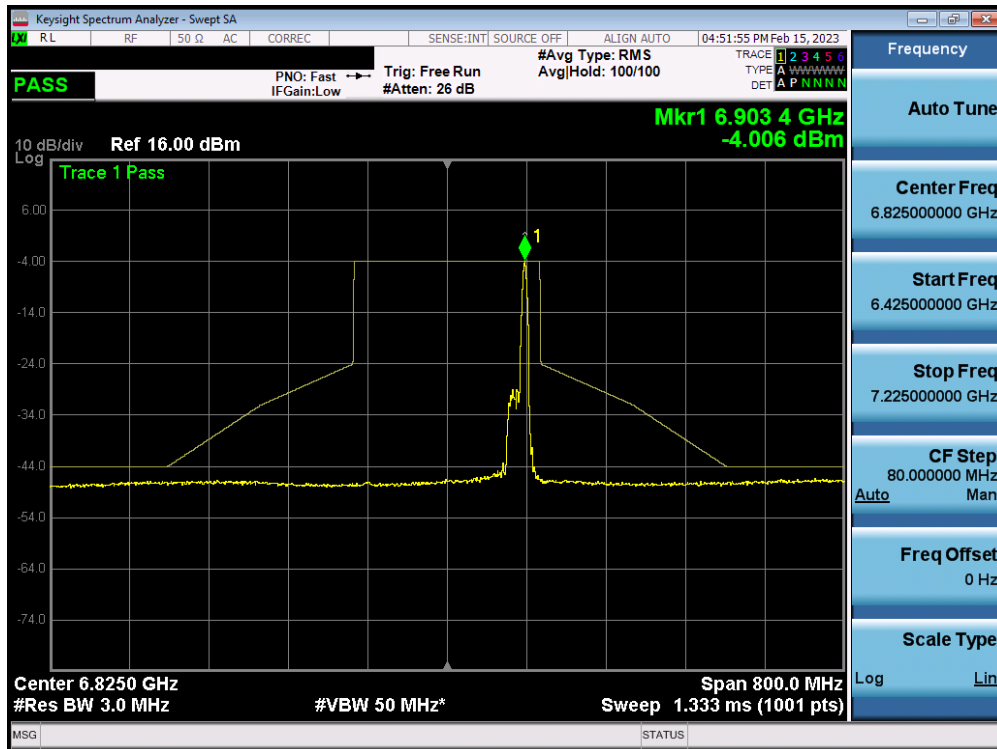


Plot 7-429. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 183)



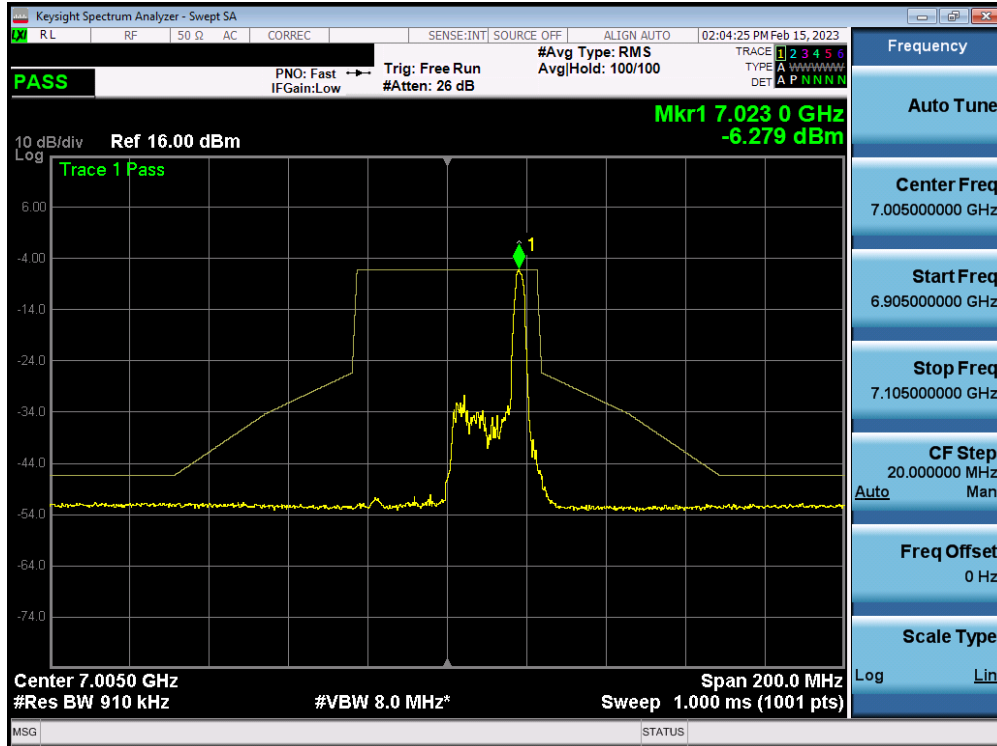
Plot 7-430. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 143)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 254 of 330

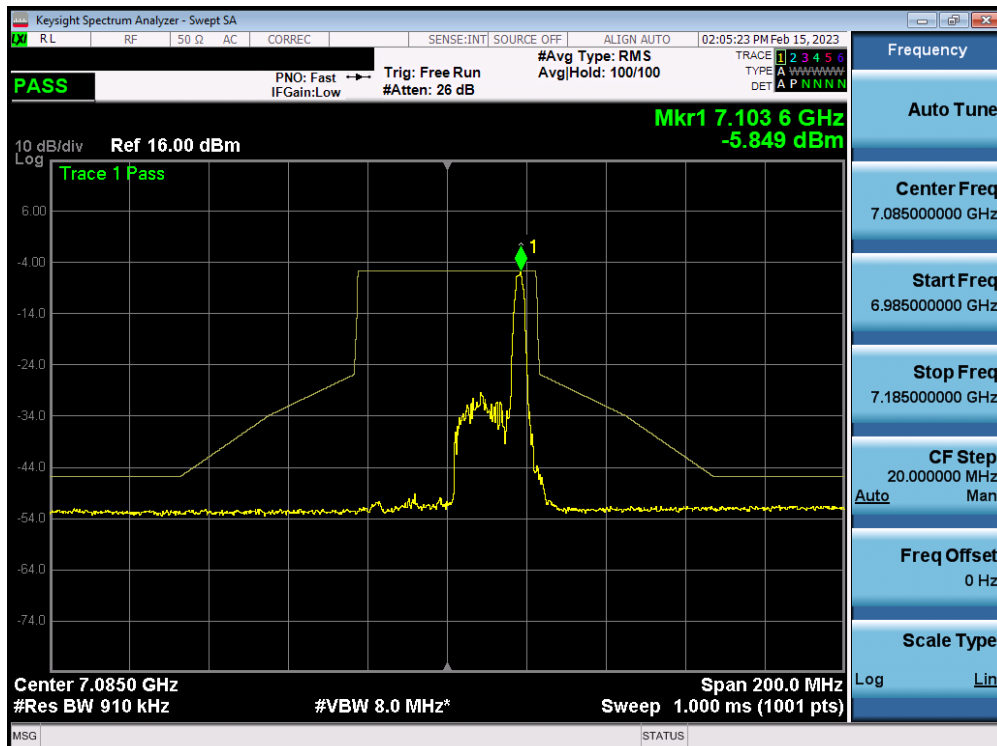


Plot 7-431. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) – Ch. 175)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 255 of 330

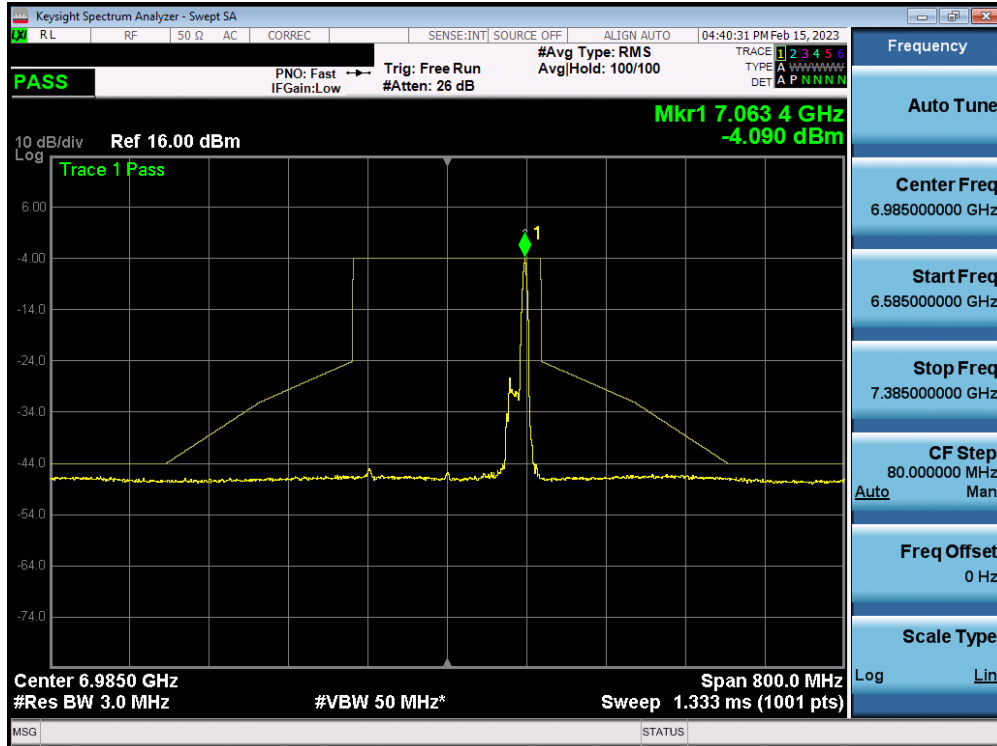


Plot 7-436. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) – Ch. 211)



Plot 7-437. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) – Ch. 227)

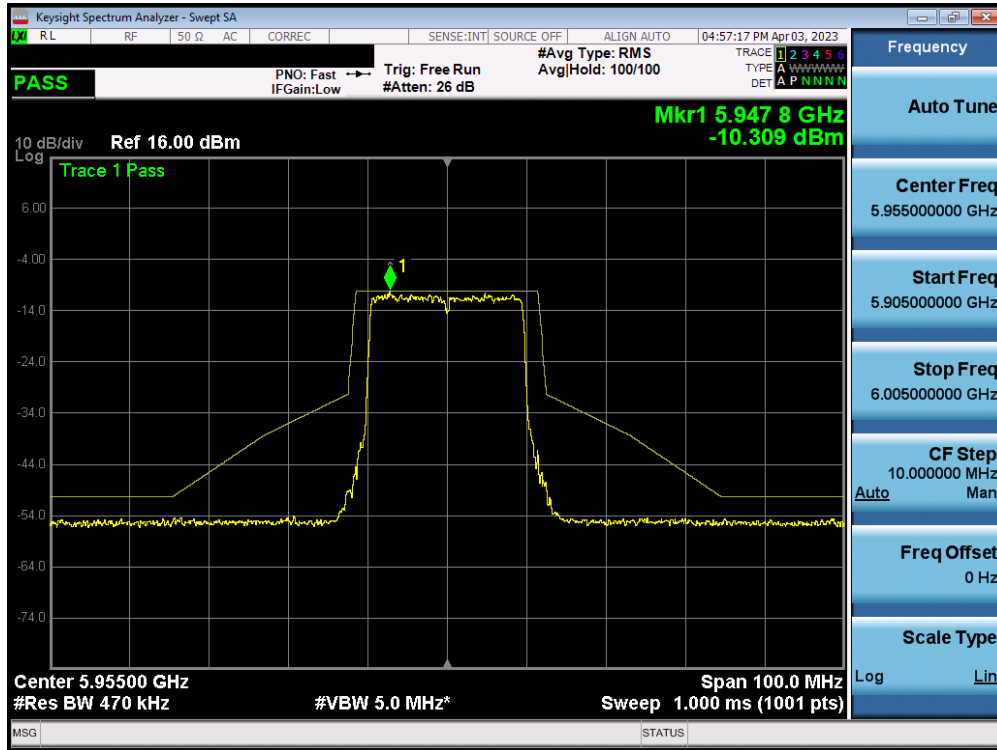
FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 258 of 330



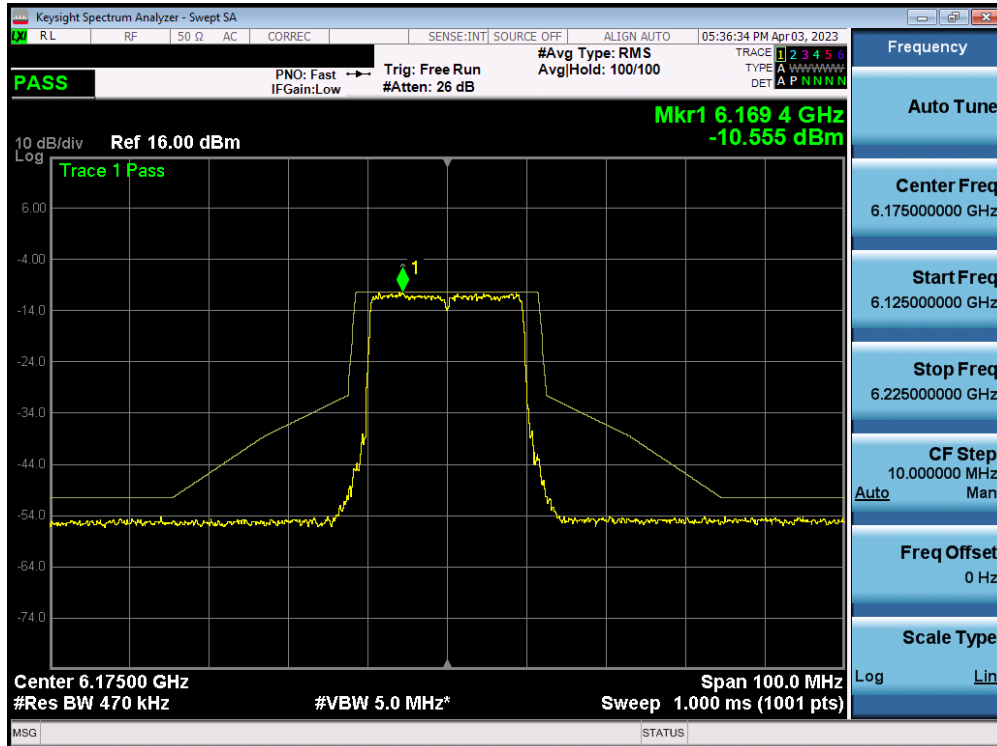
Plot 7-440. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 8) – Ch. 207)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 260 of 330

7.5.13 MIMO Antenna-2 In-Band Emission Measurements – (UNII Band 5 – Full)

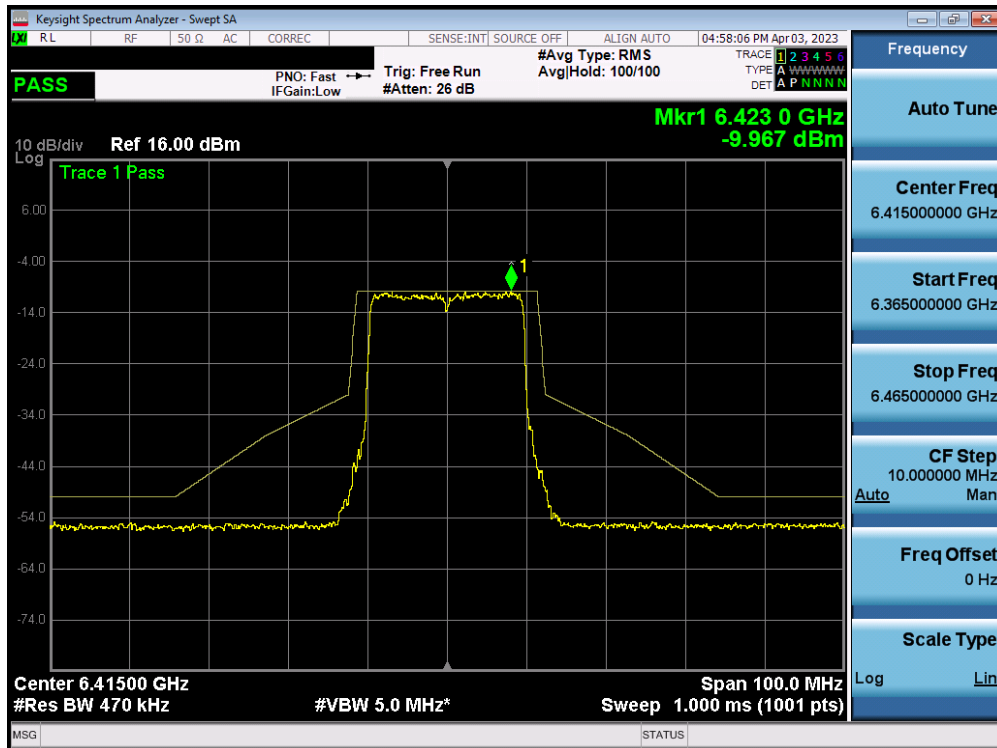


Plot 7-441. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) – Ch. 1

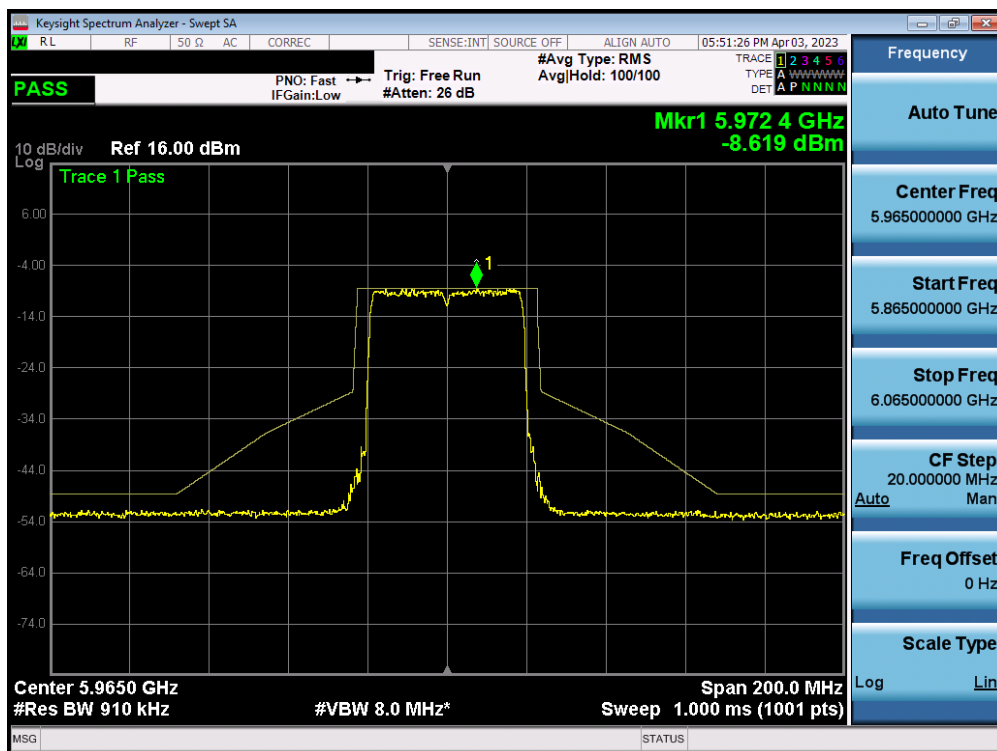


Plot 7-442. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 45)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 261 of 330

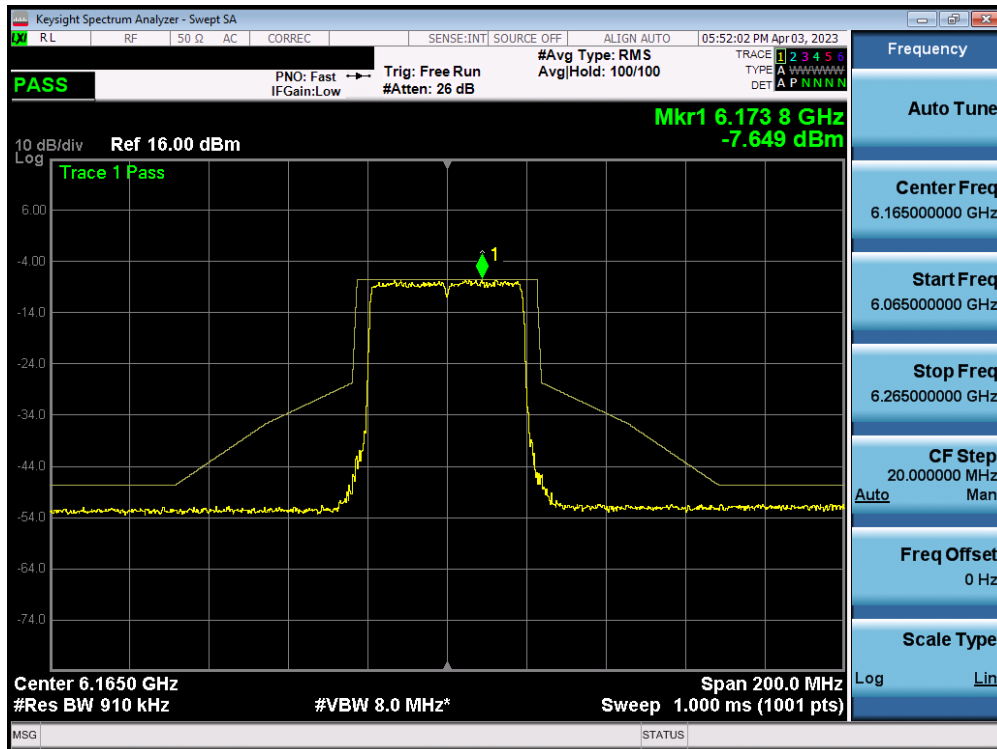


Plot 7-443. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) – Ch. 93)

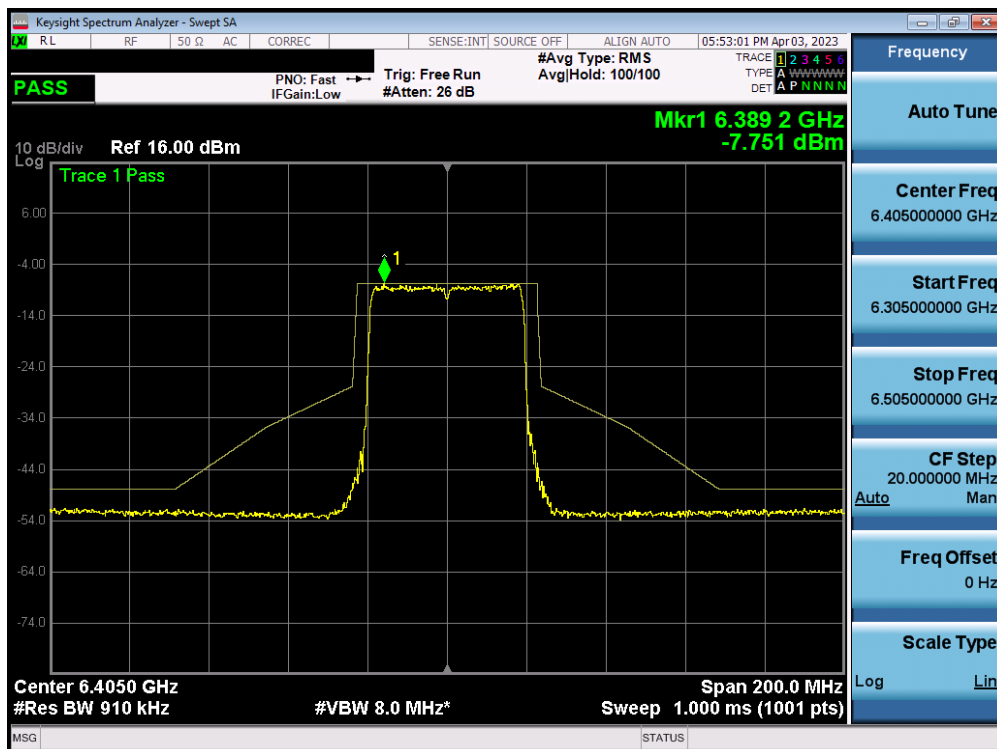


Plot 7-444. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 3)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 262 of 330

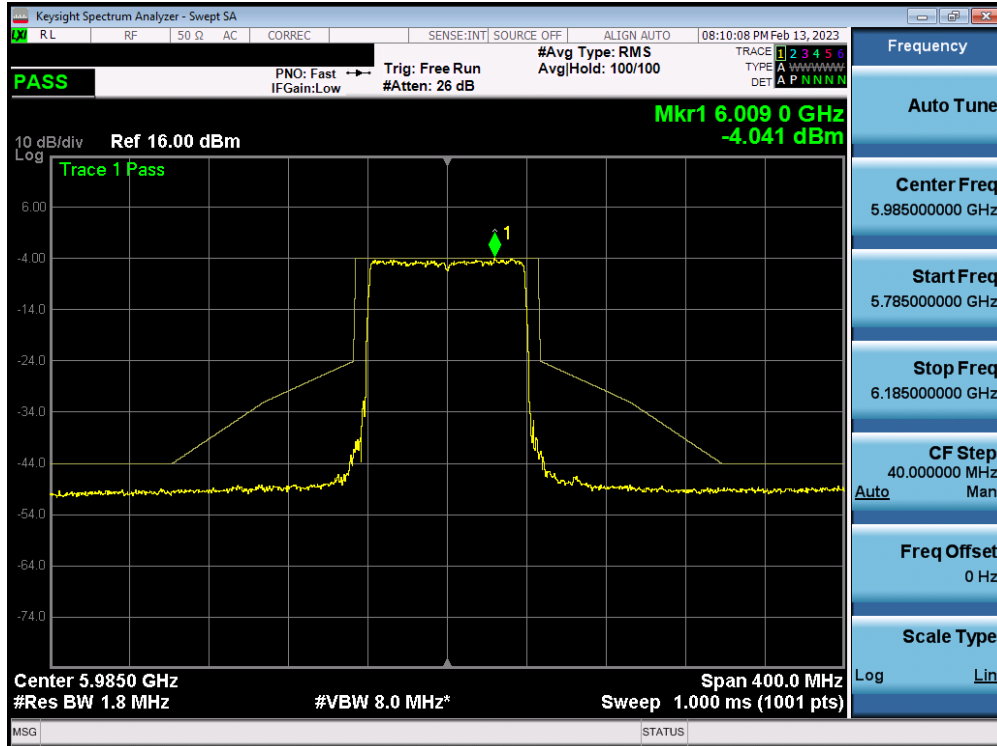


Plot 7-445. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 43)

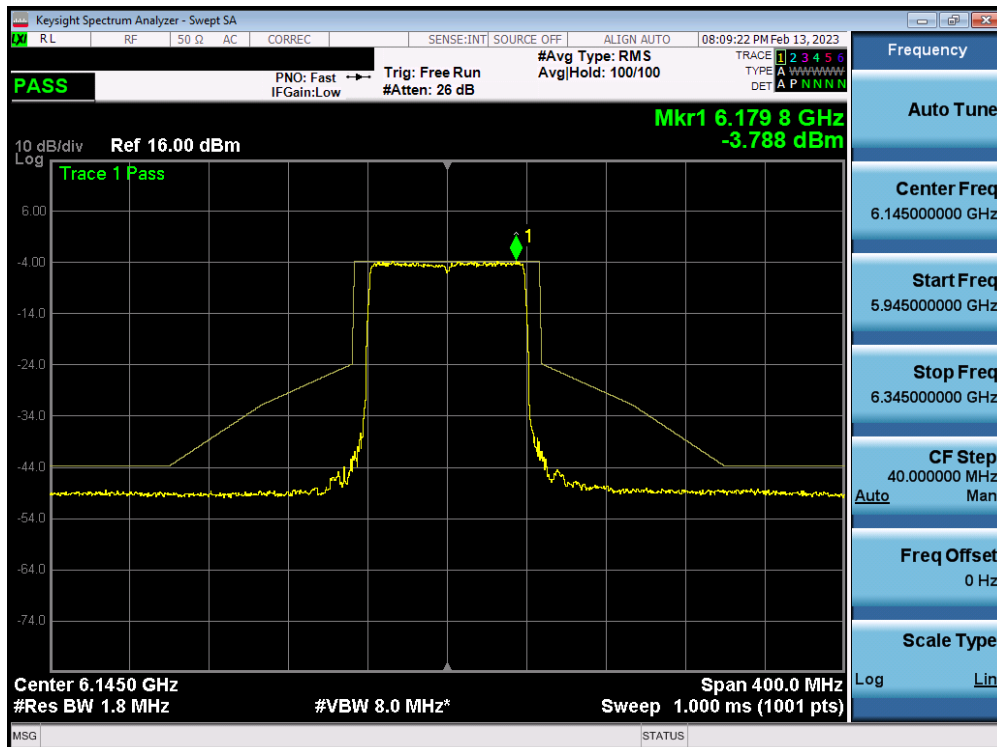


Plot 7-446. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 91)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 263 of 330

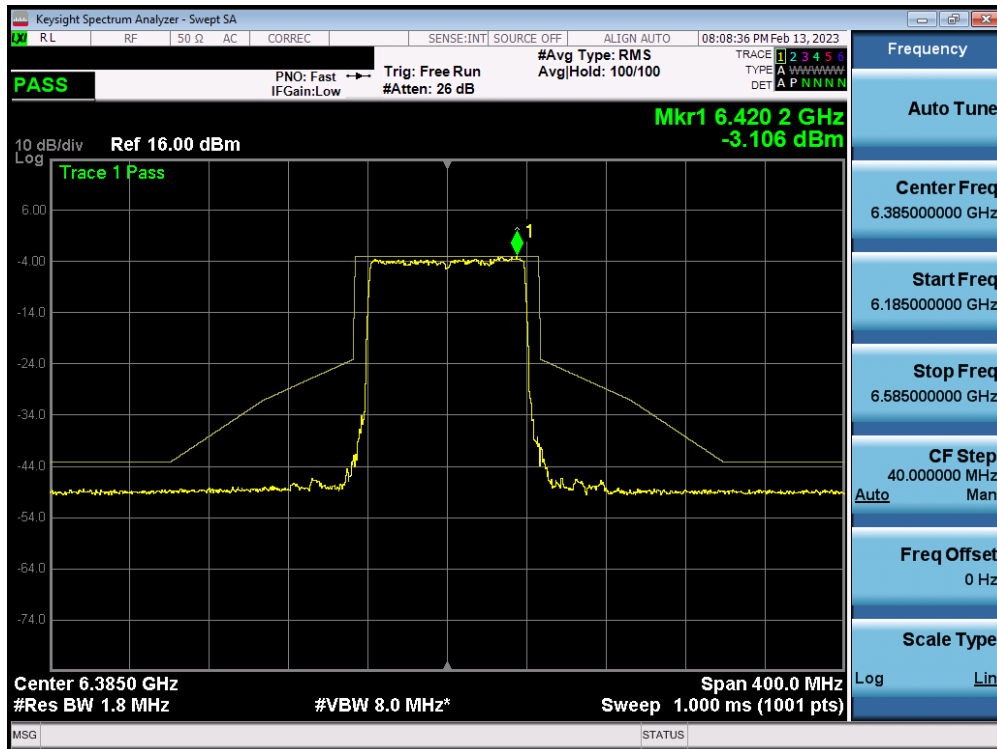


Plot 7-447. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 7)

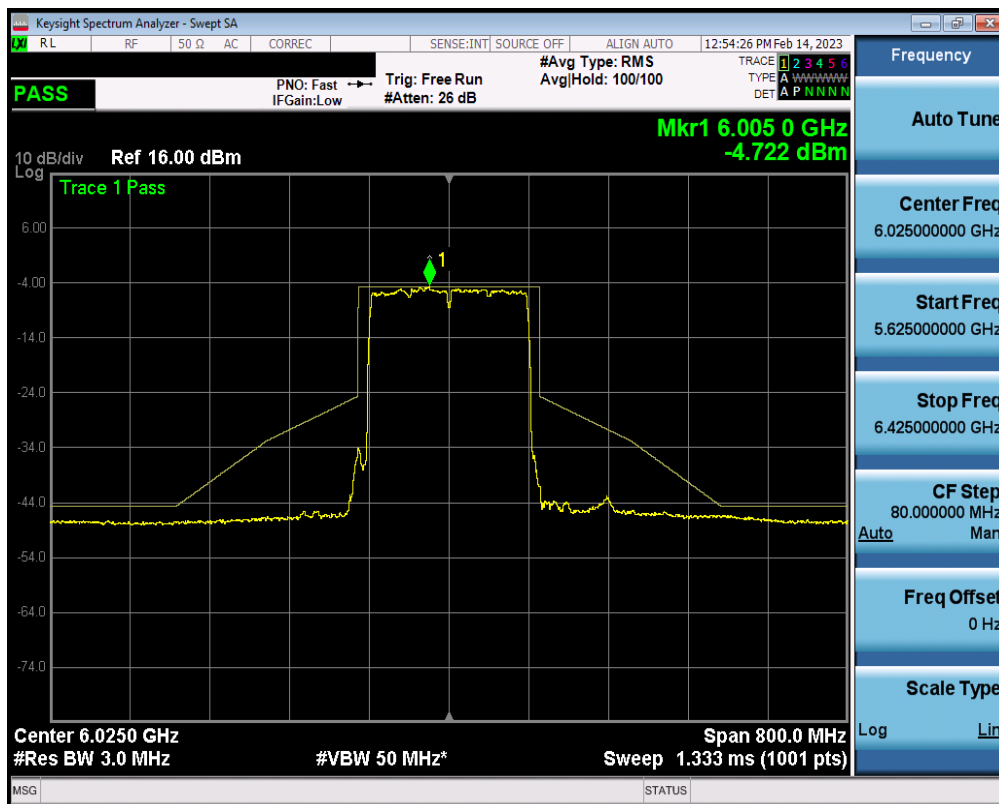


Plot 7-448. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 39)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 264 of 330

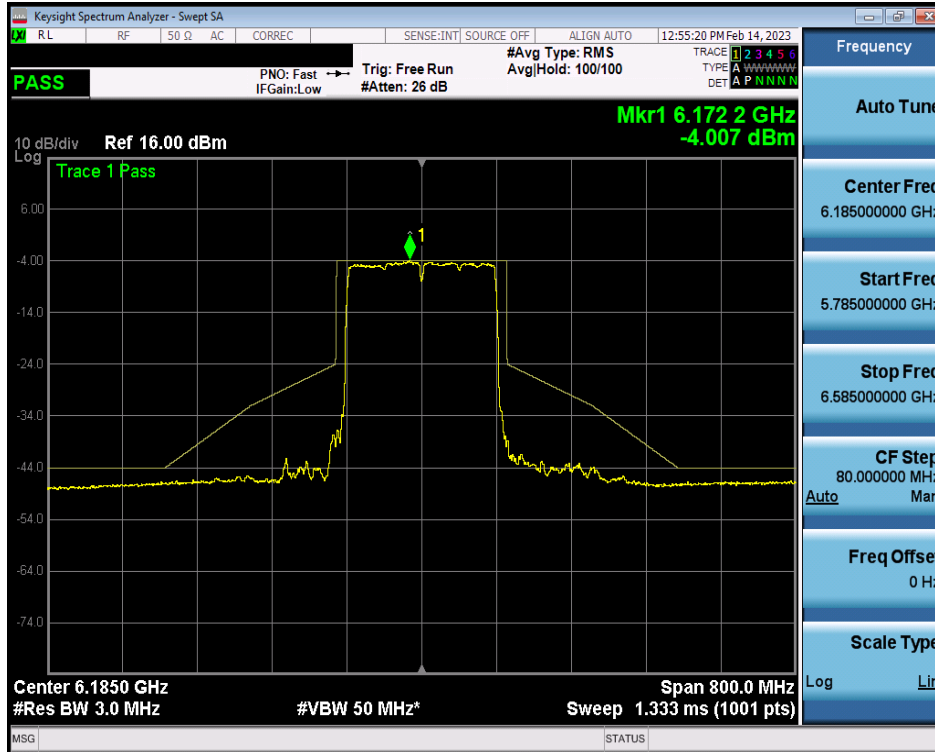


Plot 7-449. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 87)

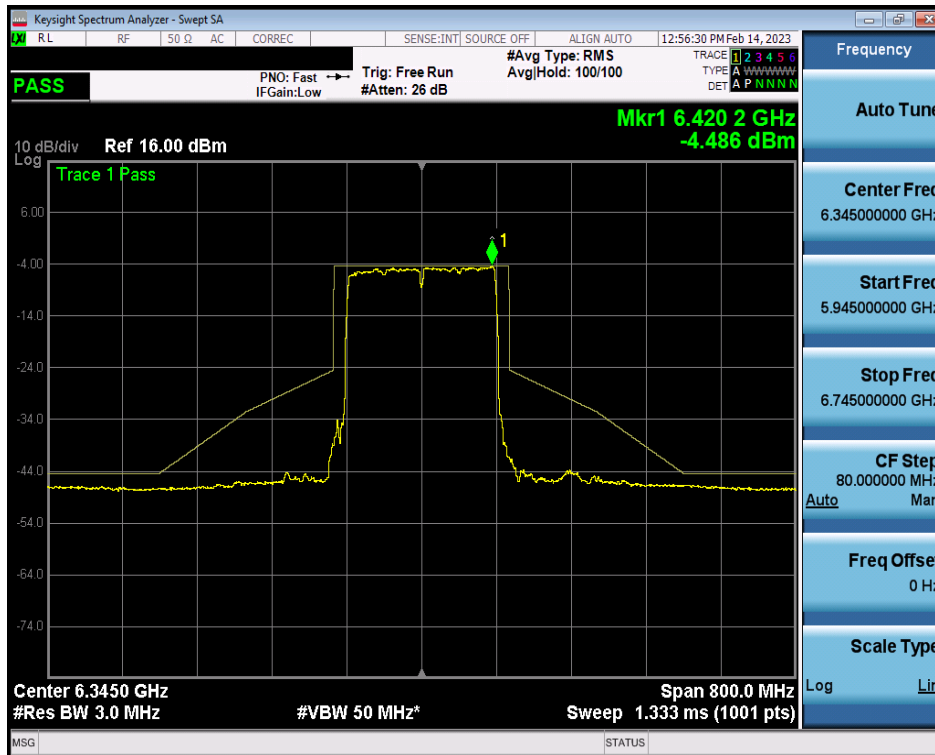


Plot 7-450. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 15)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 265 of 330



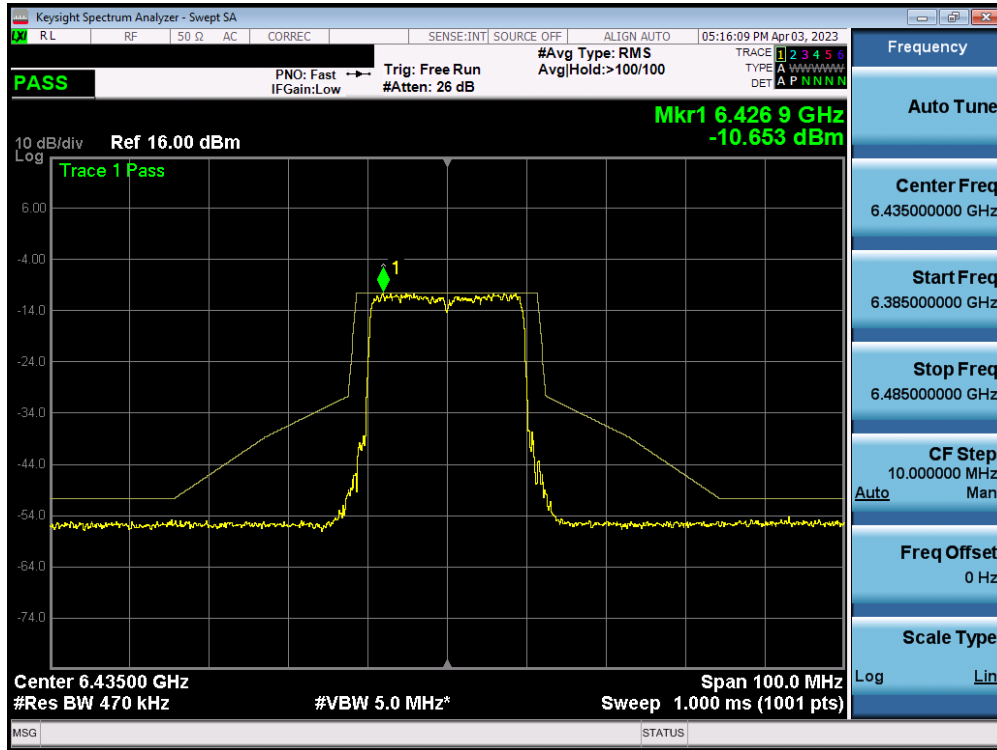
Plot 7-451. In-Band Emission Plot MIMO ANT2 160MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 47)



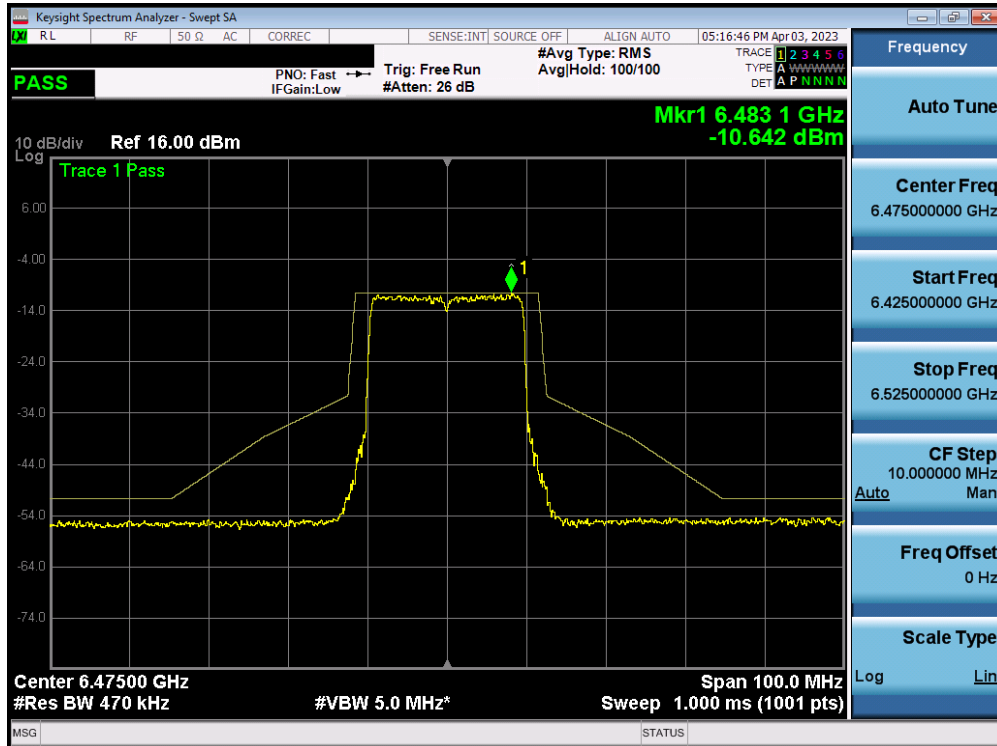
Plot 7-452. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 5) – Ch. 79)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 266 of 330

7.5.14 MIMO Antenna-2 In-Band Emission Measurements – (UNII Band 6 – Full)

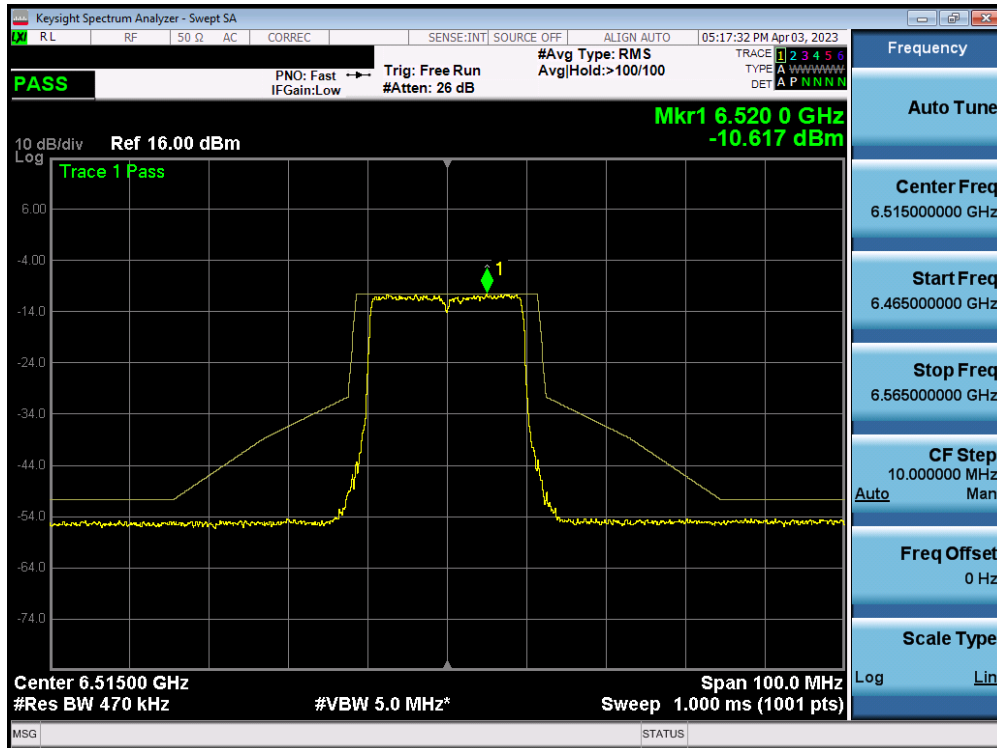


Plot 7-453. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 97)

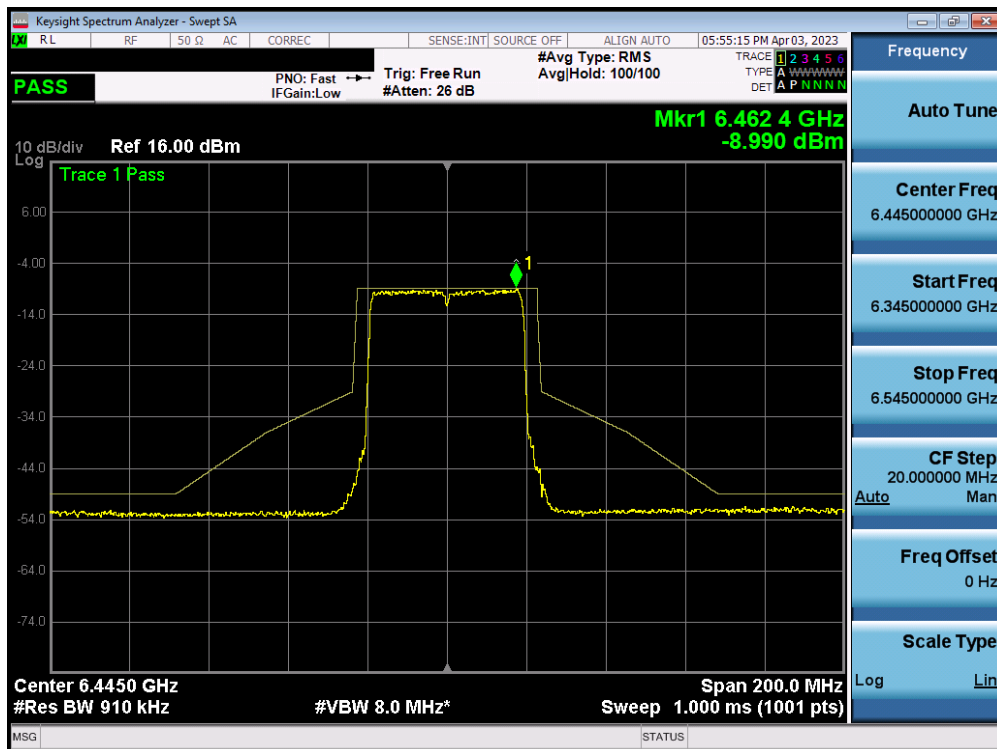


Plot 7-454. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 105)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 267 of 330

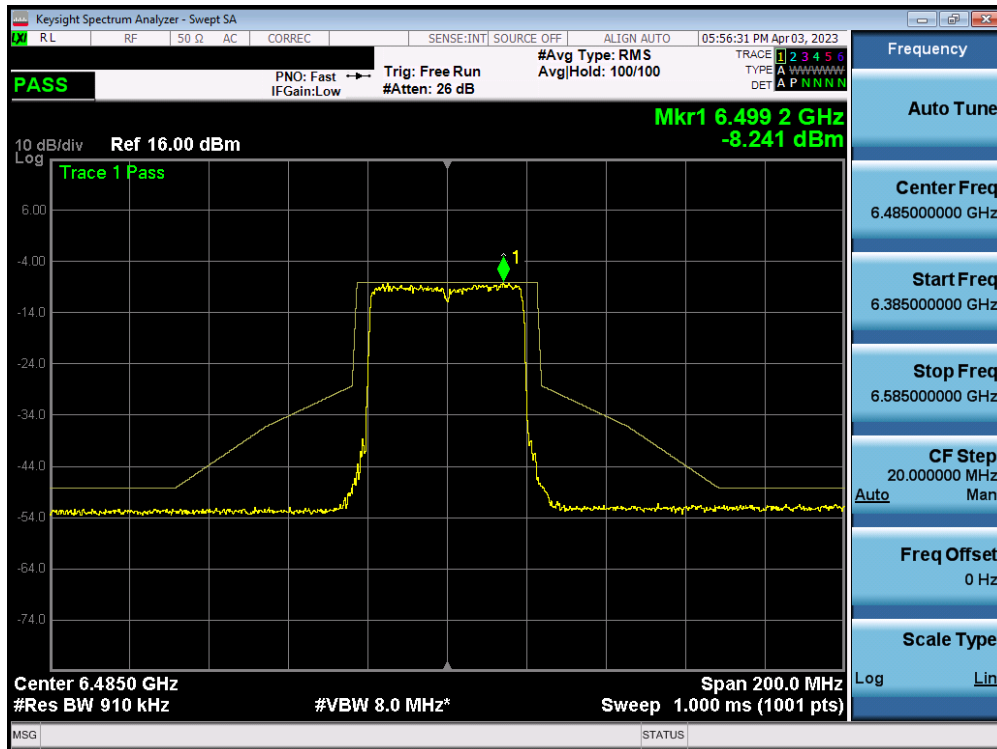


Plot 7-455. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 113)

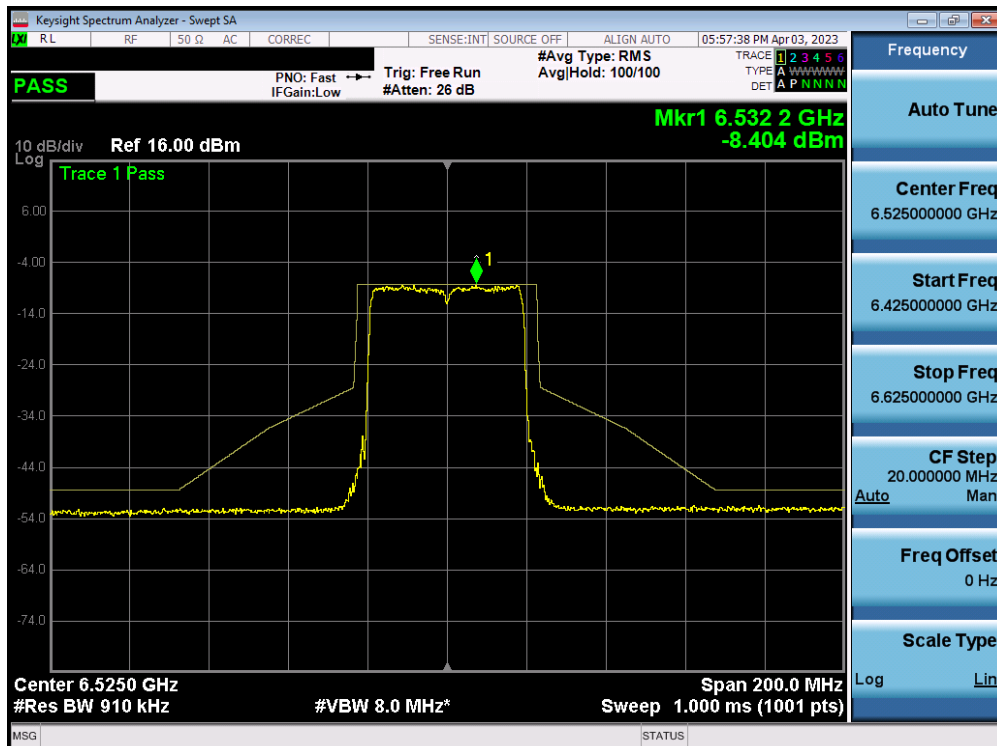


Plot 7-456. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 99)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 268 of 330

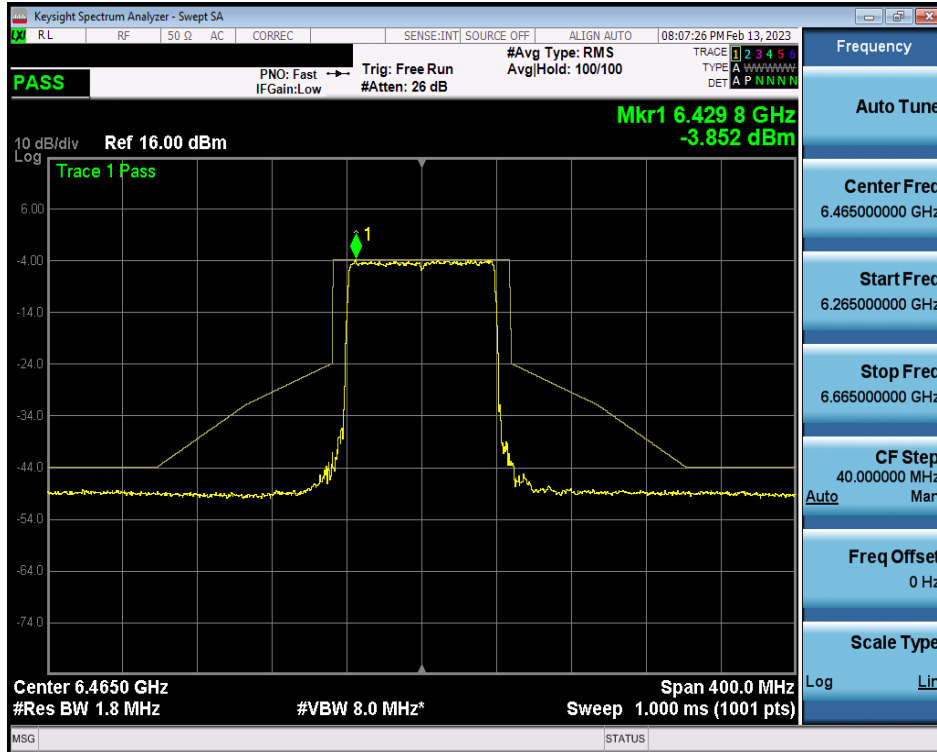


Plot 7-457. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 107)

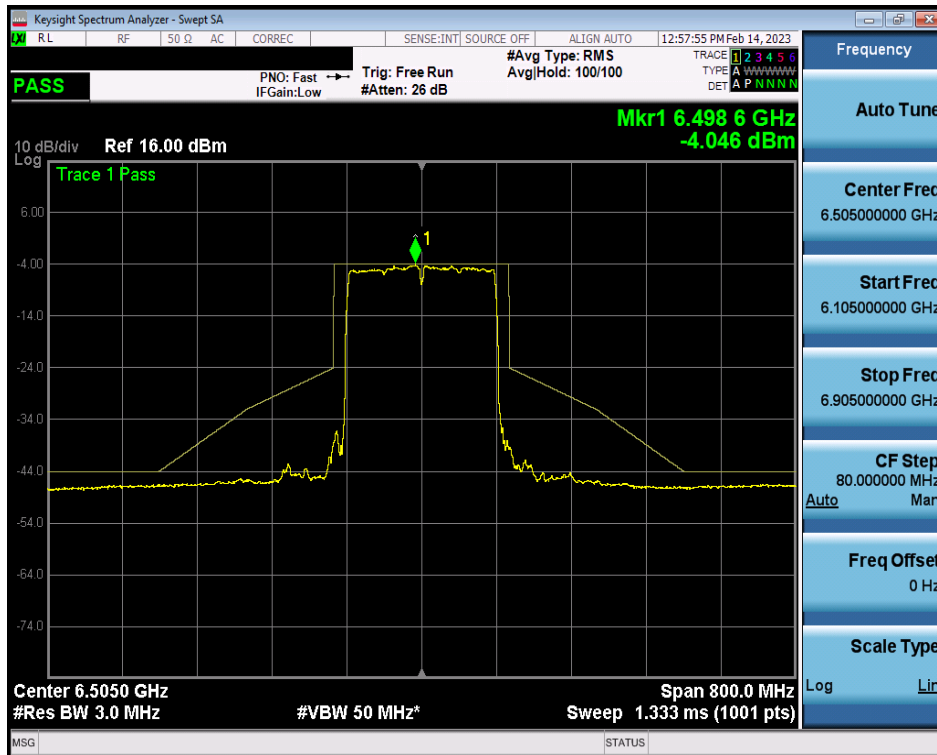


Plot 7-458. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 115)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 269 of 330



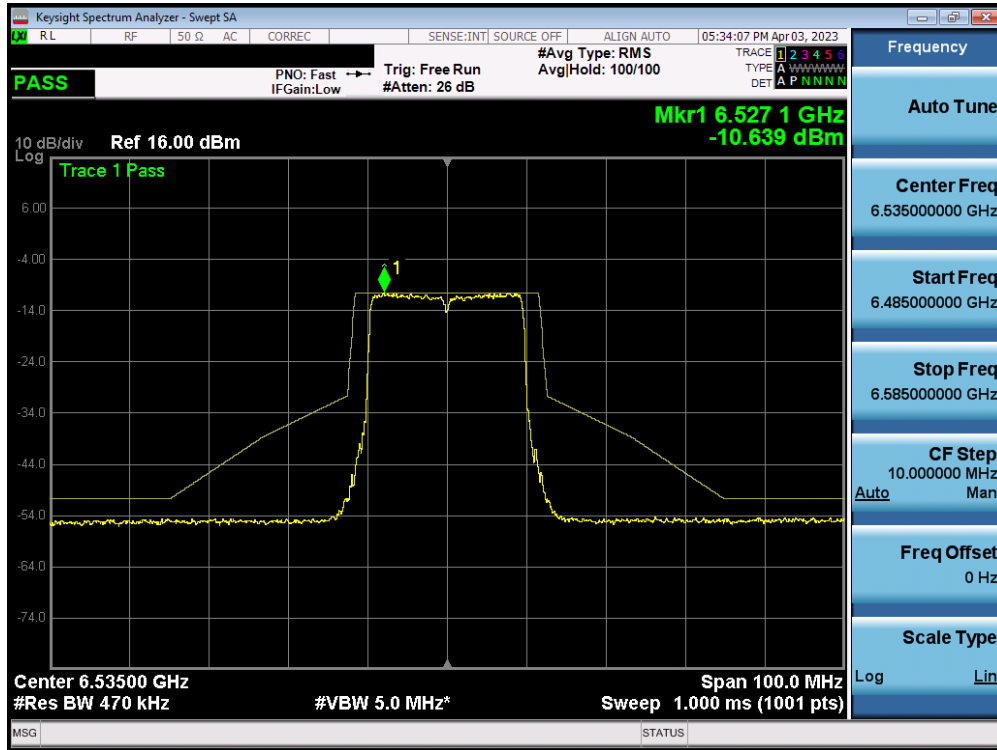
Plot 7-459. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 103)



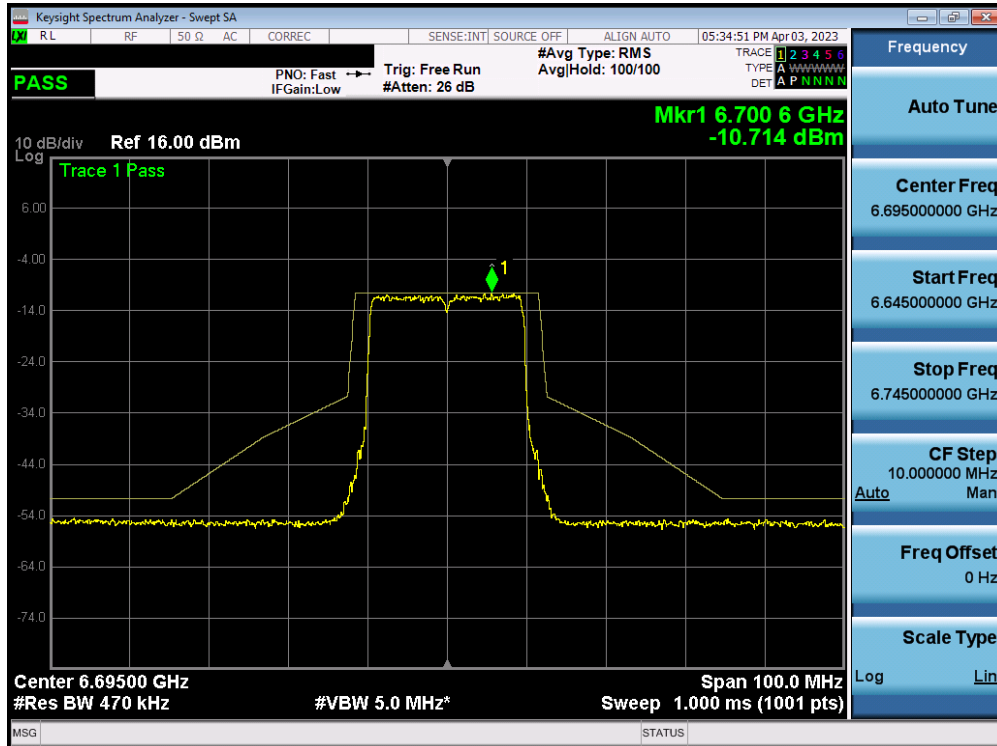
Plot 7-460. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 6) – Ch. 111)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 270 of 330

7.5.15 MIMO Antenna-2 In-Band Emission Measurements – (UNII Band 7 – Full)

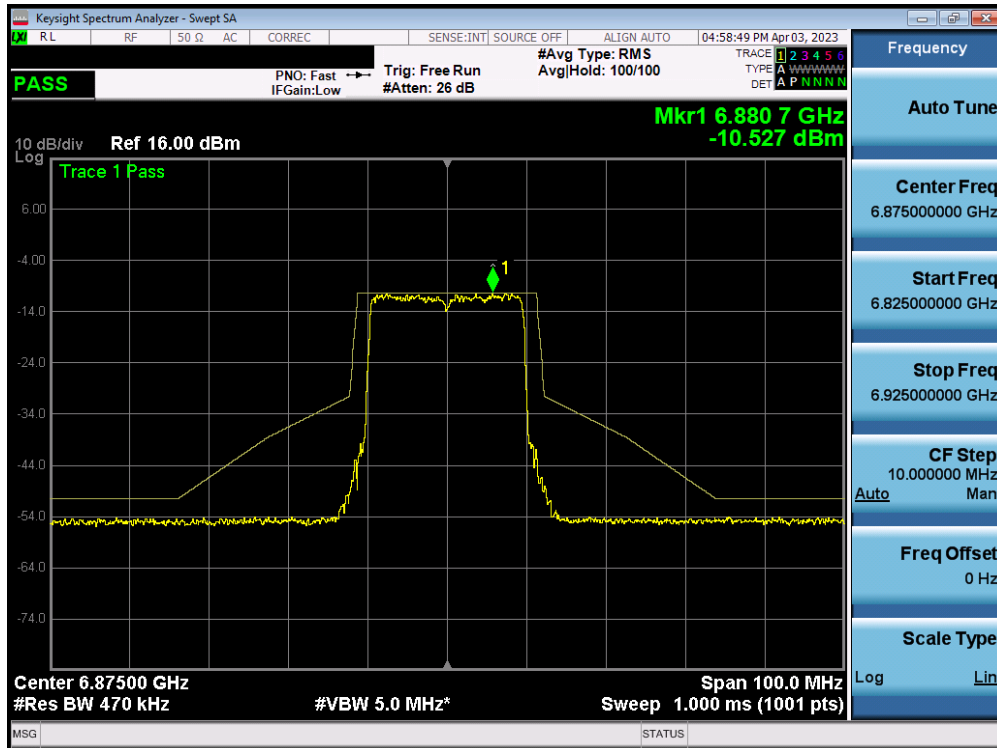


Plot 7-461. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 117)

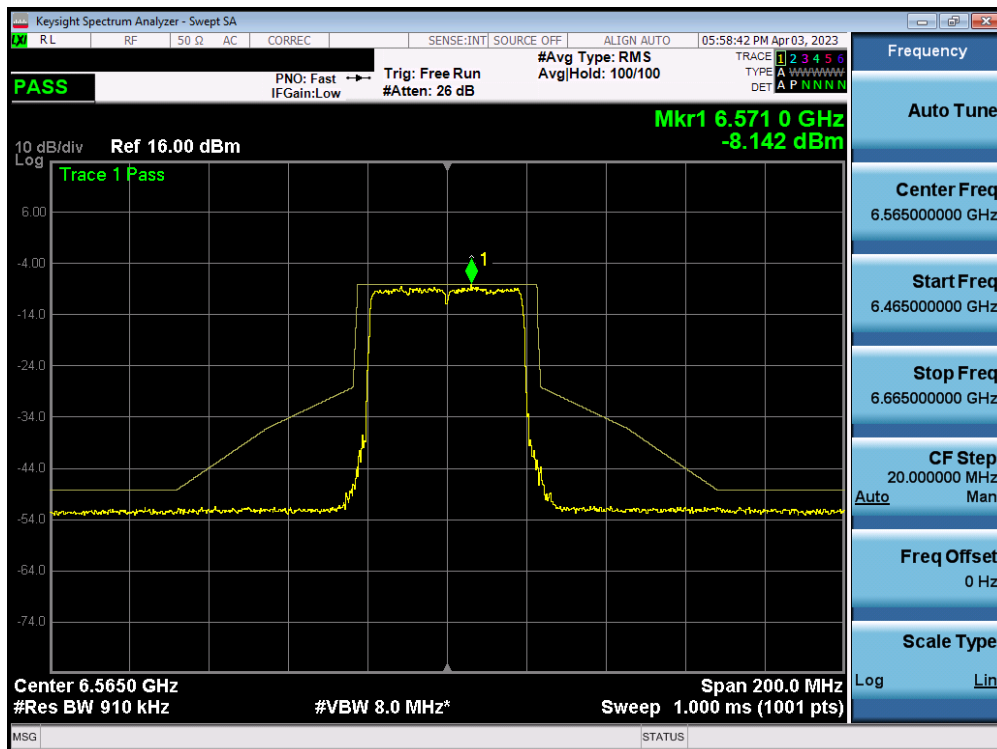


Plot 7-462. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 149)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 271 of 330

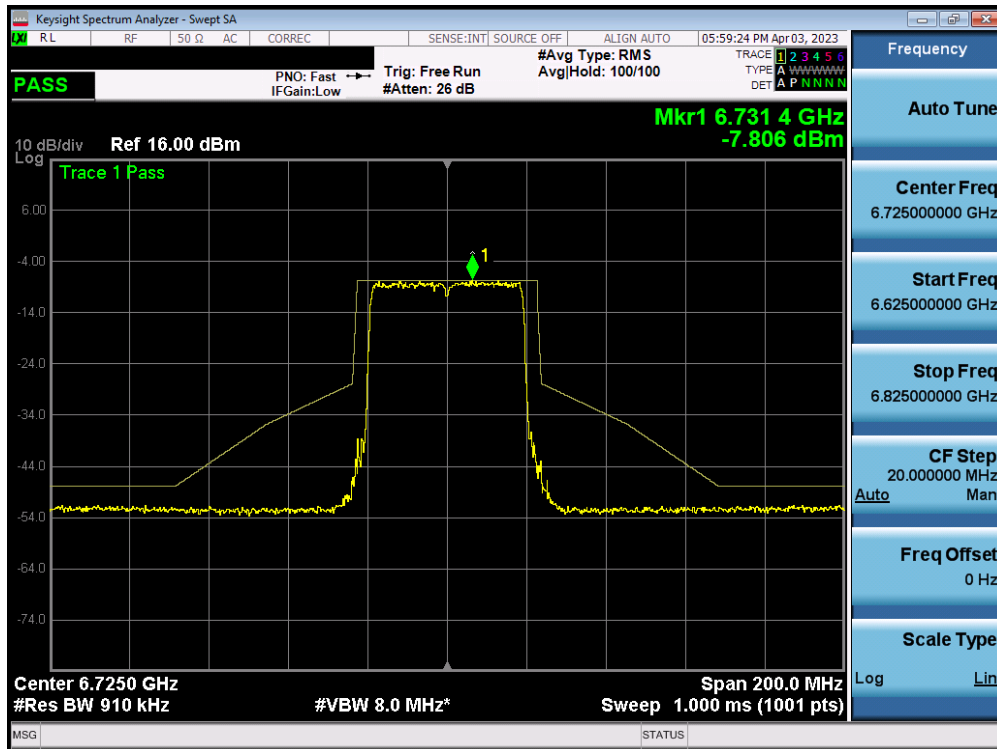


Plot 7-463. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 185)

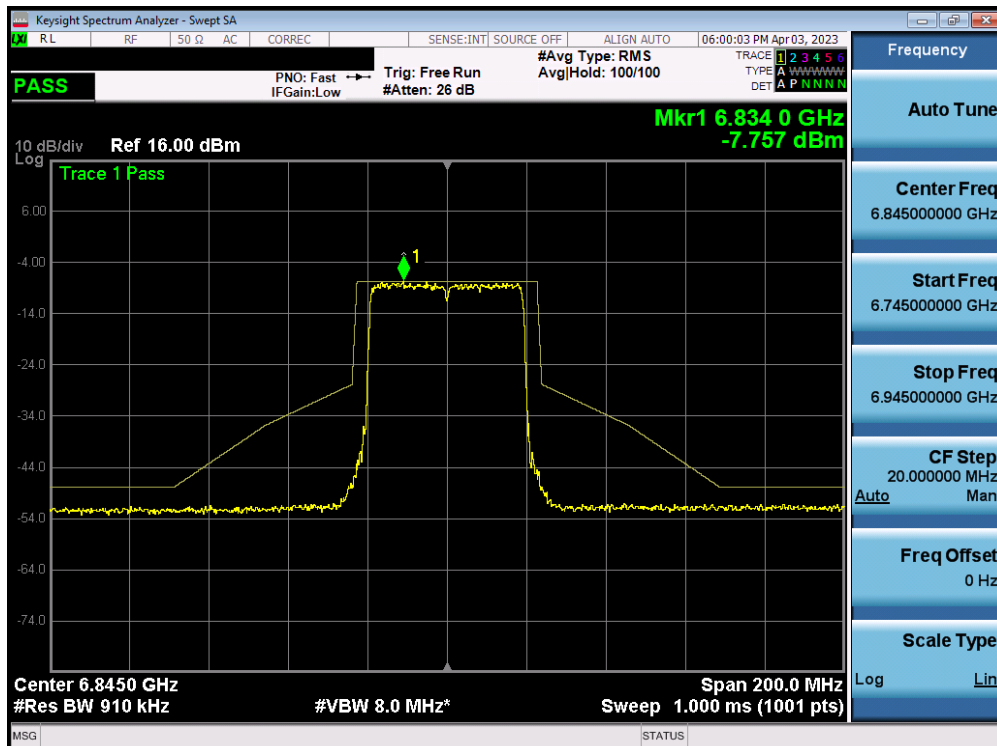


Plot 7-464. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 123)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 272 of 330	

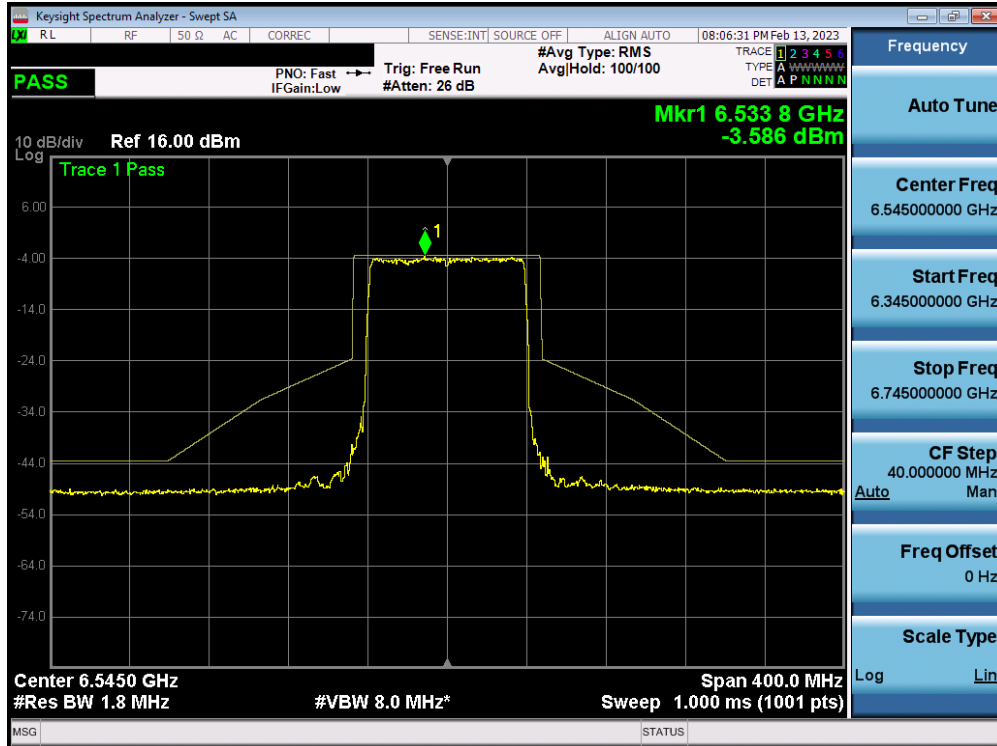


Plot 7-465. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 155)

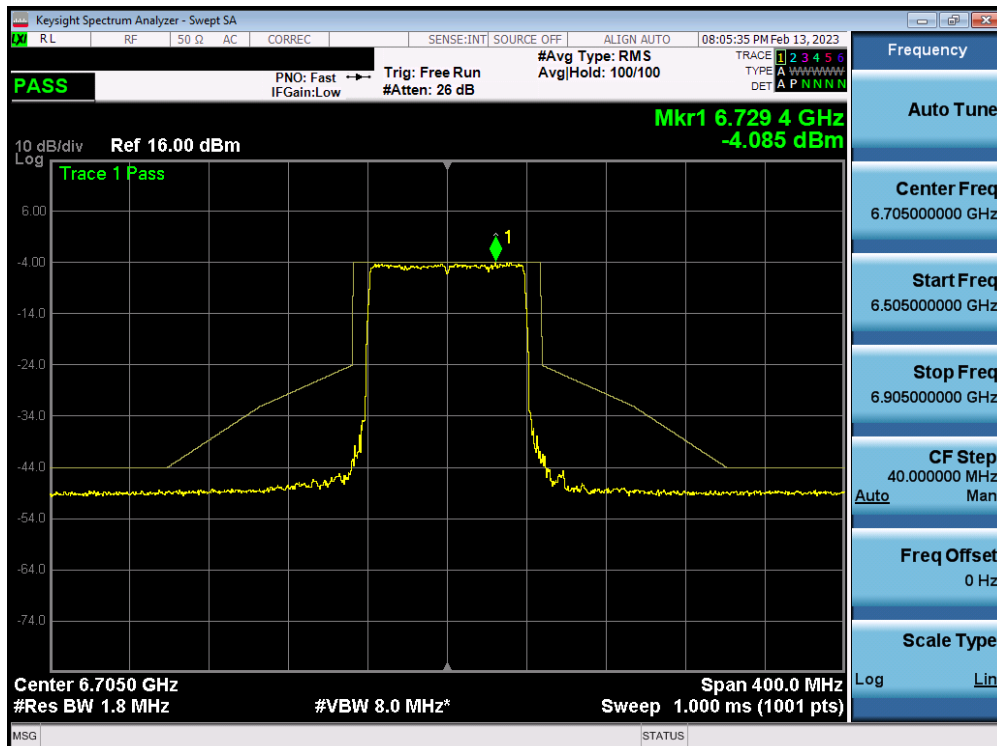


Plot 7-466. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 179)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 273 of 330

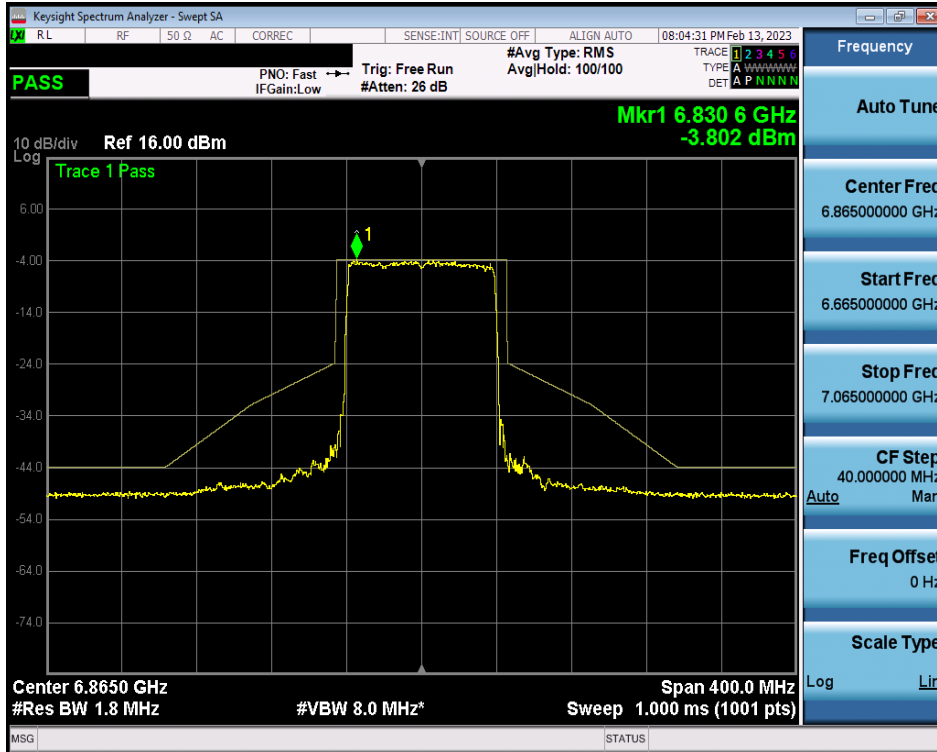


Plot 7-467. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 119)

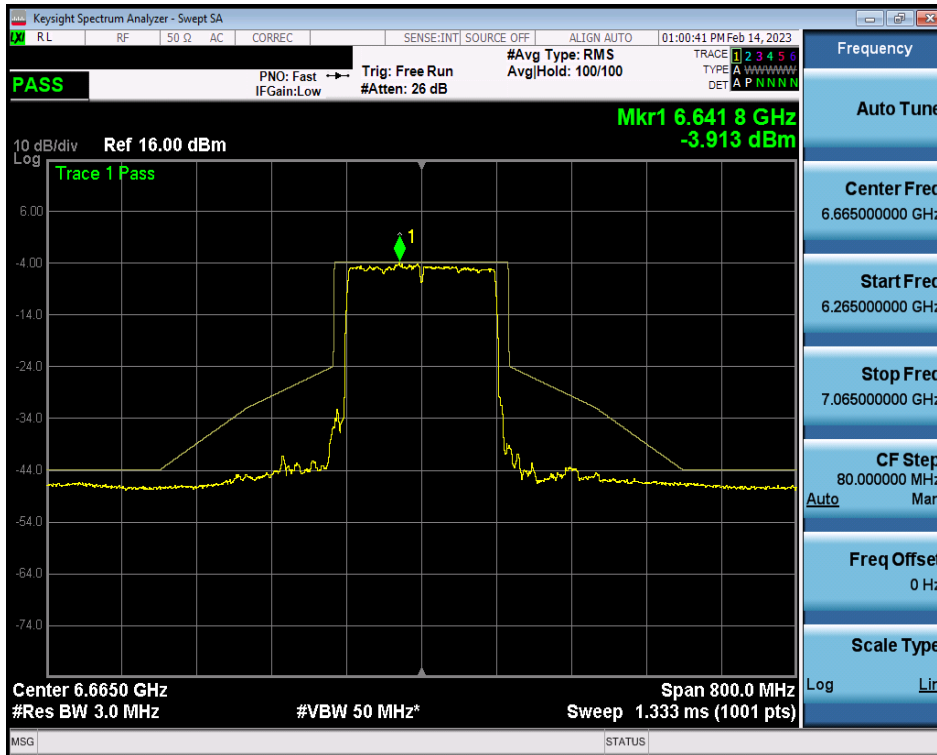


Plot 7-468. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 151)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-469. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 183)



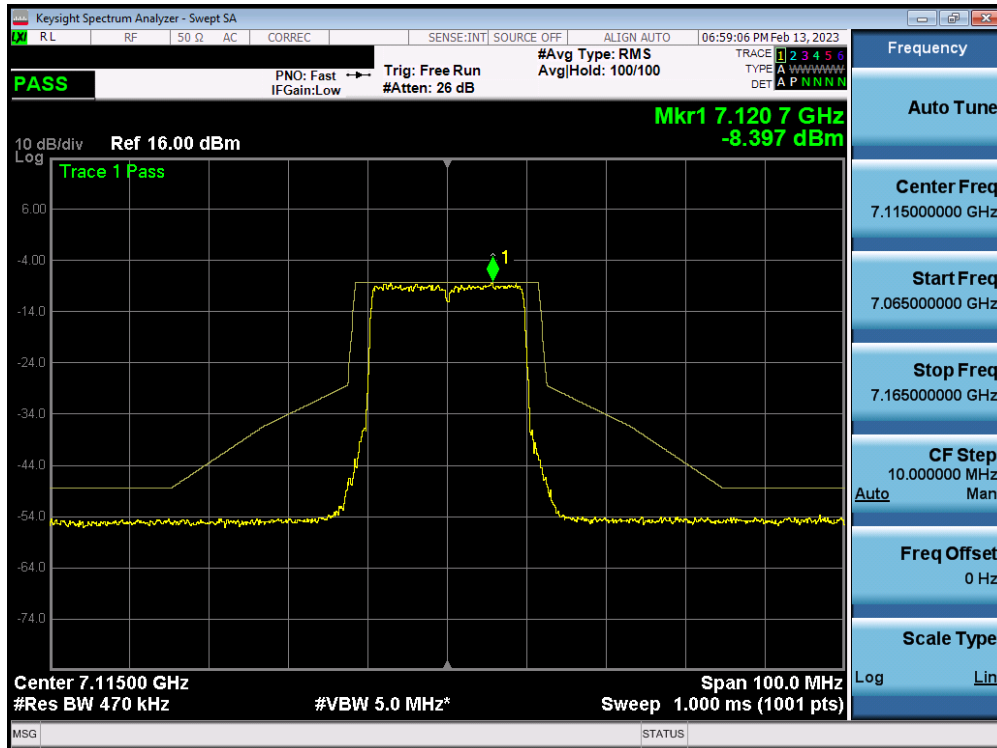
Plot 7-470. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 143)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 275 of 330

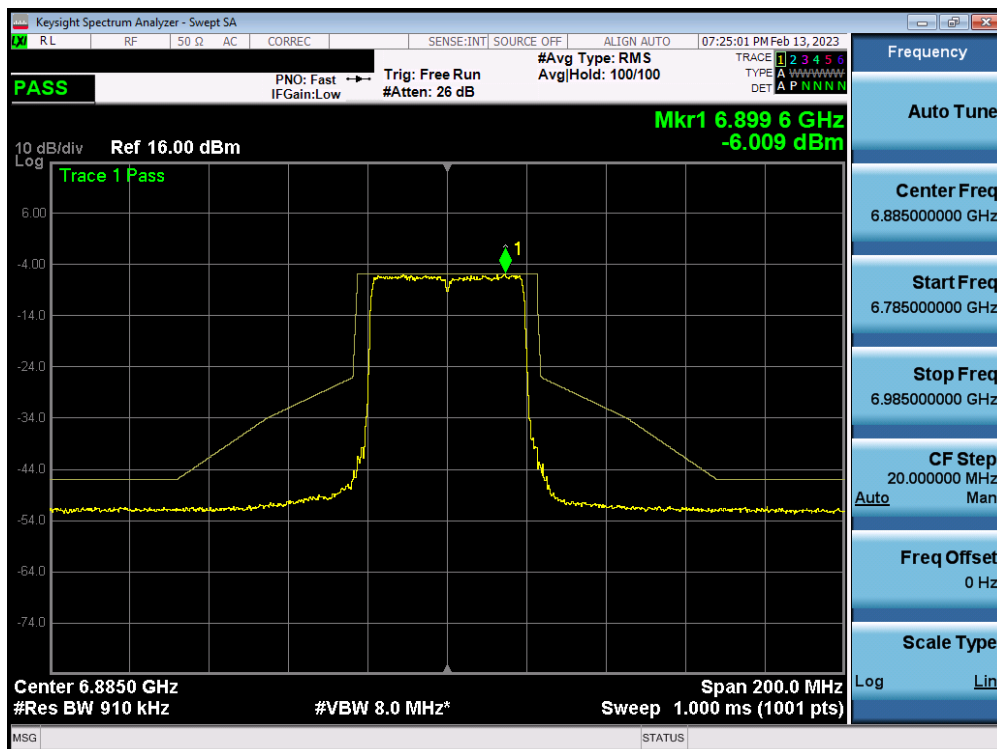


Plot 7-471. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) – Ch. 175)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 276 of 330

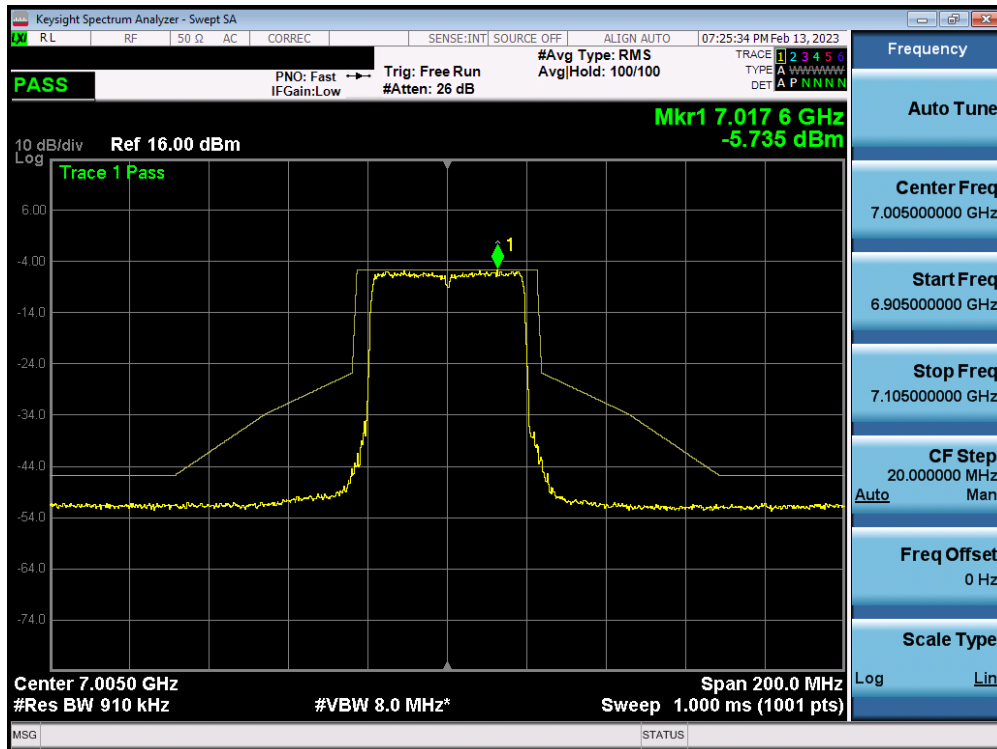


Plot 7-474. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) – Ch. 233)

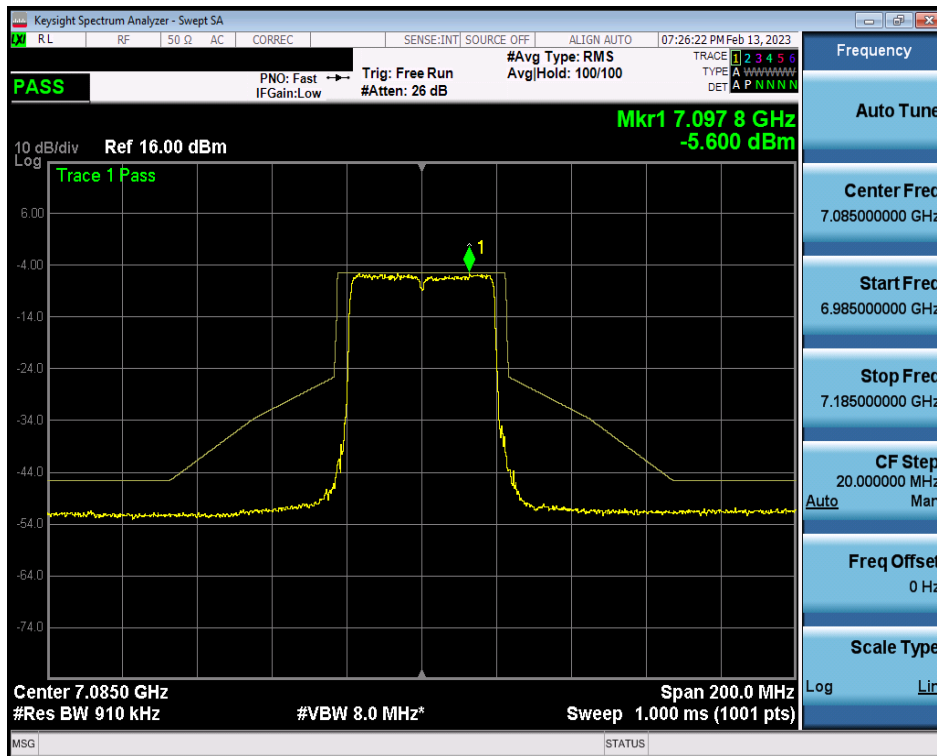


Plot 7-475. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) – Ch. 187)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 278 of 330

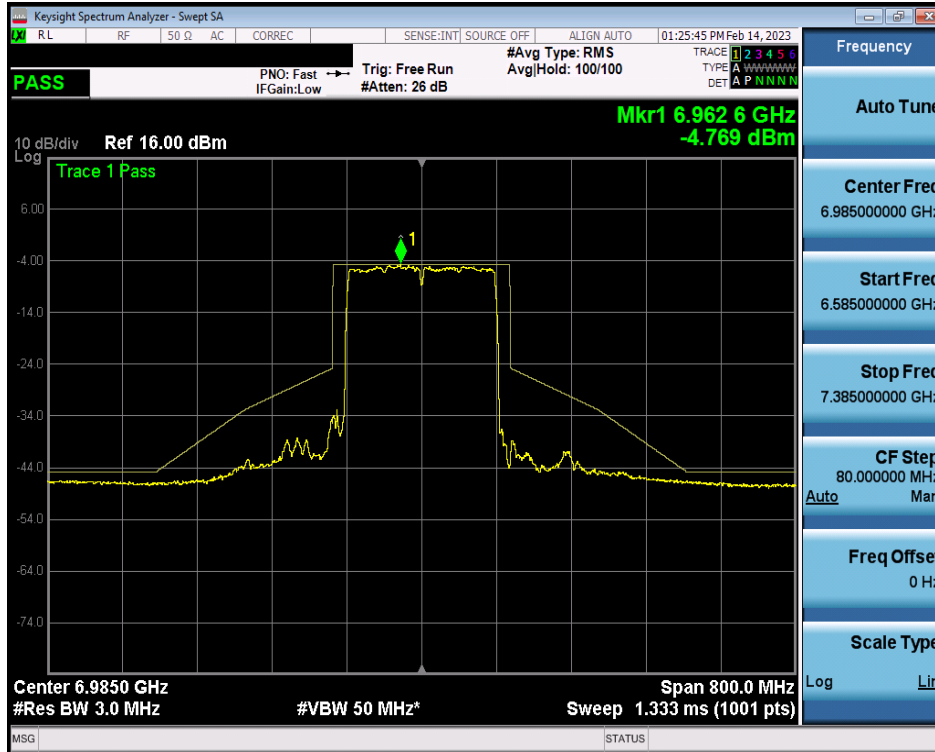


Plot 7-476. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) – Ch. 211)



Plot 7-477. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) – Ch. 227)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 279 of 330



Plot 7-480. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 8) – Ch. 207)

FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset	Page 281 of 330

7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel if detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 of KDB 987594 D02 v01r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

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Test Setup

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

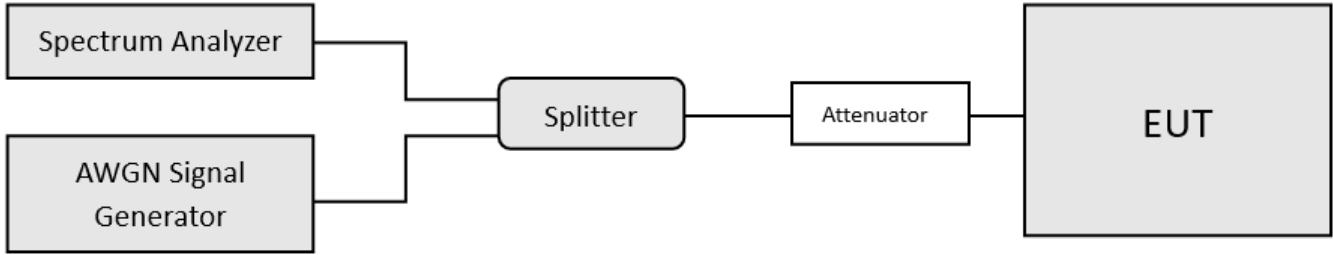


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
2. 15 trials were run in order to ensure certainty of 90%
3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Detection Level Calculation

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-75.50	-4.79	-70.71	-62.0	-8.71
				6110	-80.99	-4.79	-76.20	-62.0	-14.20
	47	6185	160	6185	-72.09	-4.79	-67.30	-62.0	-5.30
				6260	-76.81	-4.79	-72.02	-62.0	-10.02
UNII Band 6	101	6455	20	6455	-77.15	-3.83	-73.32	-62.0	-11.32
				6430	-80.18	-3.83	-76.35	-62.0	-14.35
	111	6505	160	6505	-72.59	-3.83	-68.76	-62.0	-6.76
				6580	-79.92	-3.83	-76.09	-62.0	-14.09
UNII Band 7	149	6695	20	6695	-80.83	-4.32	-76.51	-62.0	-14.51
				6750	-79.74	-4.32	-75.42	-62.0	-13.42
	175	6825	160	6825	-71.48	-4.32	-67.16	-62.0	-5.16
				6900	-77.93	-4.32	-73.61	-62.0	-11.61
UNII Band 8	197	6935	20	6935	-79.20	-4.33	-74.87	-62.0	-12.87
				6910	-76.53	-4.33	-72.20	-62.0	-10.20
	207	6985	160	6985	-70.17	-4.33	-65.84	-62.0	-3.84
				7060	-74.12	-4.33	-69.79	-62.0	-7.79

Table 7-11. Contention Based Protocol – Incumbent Detection Results

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Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Antenna Gain [dBi]	EUT Transmission Status			Detection Limit [dBm]	Margin [dB]
						Adjusted AWGN Power (dBm)				
						Normal	Minimal	Ceased		
UNII Band 5	53	6215	20	6215	-4.79	-75.52	-72.27	-70.71	-62.0	-8.71
				6110	-4.79	-78.80	-76.50	-76.20	-62.0	-14.20
	47	6185	160	6185	-4.79	-72.20	-69.40	-67.30	-62.0	-5.30
				6260	-4.79	-74.22	-72.37	-72.02	-62.0	-10.02
UNII Band 6	101	6455	20	6455	-3.83	-76.32	-75.14	-73.32	-62.0	-11.32
				6430	-3.83	-78.60	-77.60	-76.35	-62.0	-14.35
	111	6505	160	6505	-3.83	-71.61	-70.26	-68.76	-62.0	-6.76
				6580	-3.83	-79.59	-77.30	-76.09	-62.0	-14.09
UNII Band 7	149	6695	20	6695	-4.32	-80.01	-77.76	-76.51	-62.0	-14.51
				6750	-4.32	-78.02	-76.50	-75.42	-62.0	-13.42
	175	6825	160	6825	-4.32	-71.06	-68.68	-67.16	-62.0	-5.16
				6900	-4.32	-76.93	-75.83	-73.61	-62.0	-11.61
UNII Band 8	197	6935	20	6935	-4.33	-79.12	-77.08	-74.87	-62.0	-12.87
				6910	-4.33	-76.11	-74.19	-72.20	-62.0	-10.20
	207	6985	160	6985	-4.33	-69.99	-67.99	-65.84	-62.0	-3.84
				7060	-4.33	-72.99	-70.99	-69.79	-62.0	-7.79

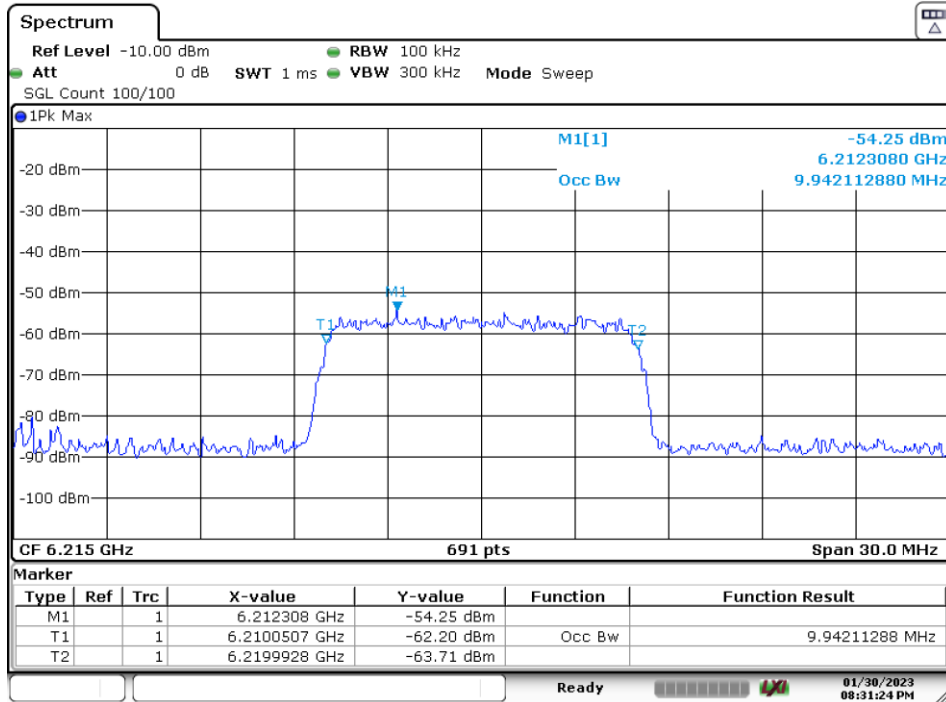
Table 7-12. Contention Based Protocol – Detection Results – All Tx Cases

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)		
UNII Band 5	53	6215	20	6215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				6110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	47	6185	160	6185	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				6260	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 6	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				6430	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	111	6505	160	6505	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6580	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 7	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6750	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	175	6825	160	6825	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 8	197	6935	20	6935	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6910	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	207	6985	160	6985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				7060	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 7-13. Contention Based Protocol – Incumbent Detection Trial Results

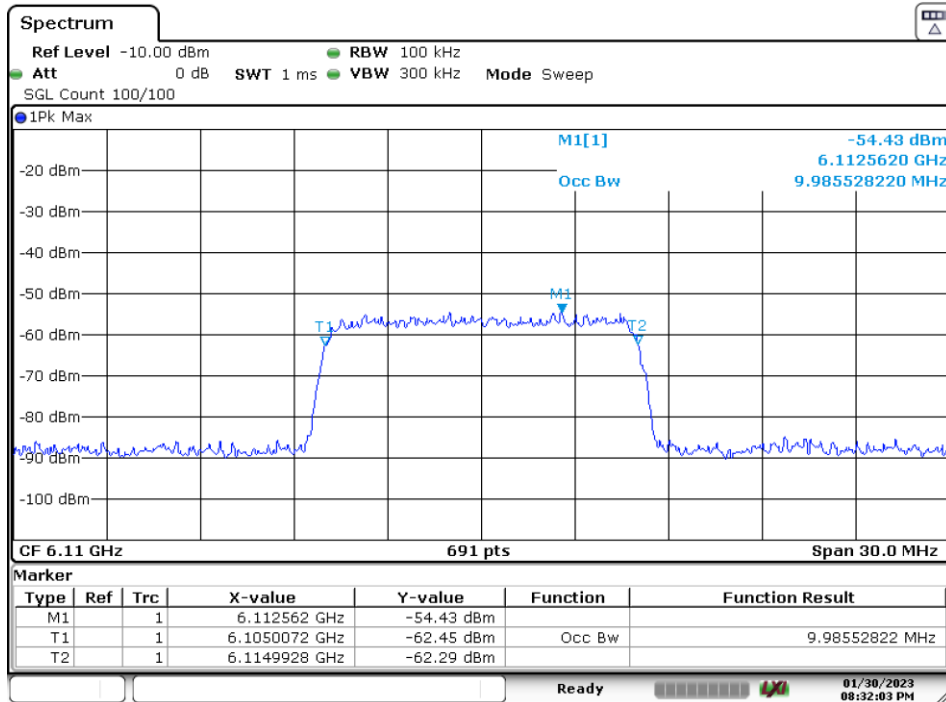
FCC ID: PY7-84558E	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.1 AWGN Plots



Date: 30.JAN.2023 20:31:24

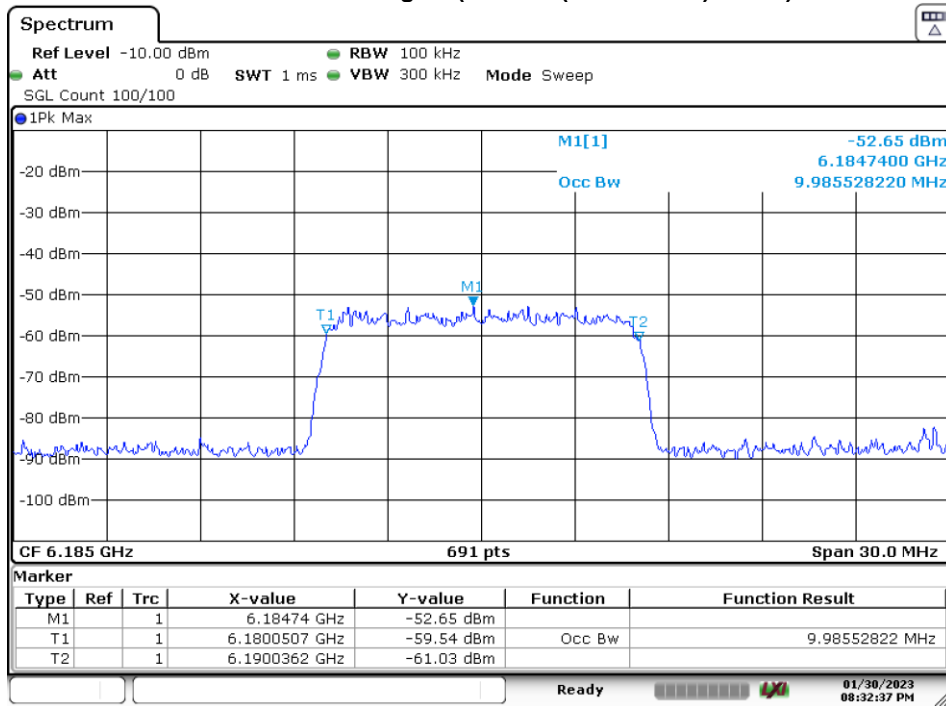
Plot 7-481. AWGN Signal (20MHz (UNII Band 5) – Mid)



Date: 30.JAN.2023 20:32:03

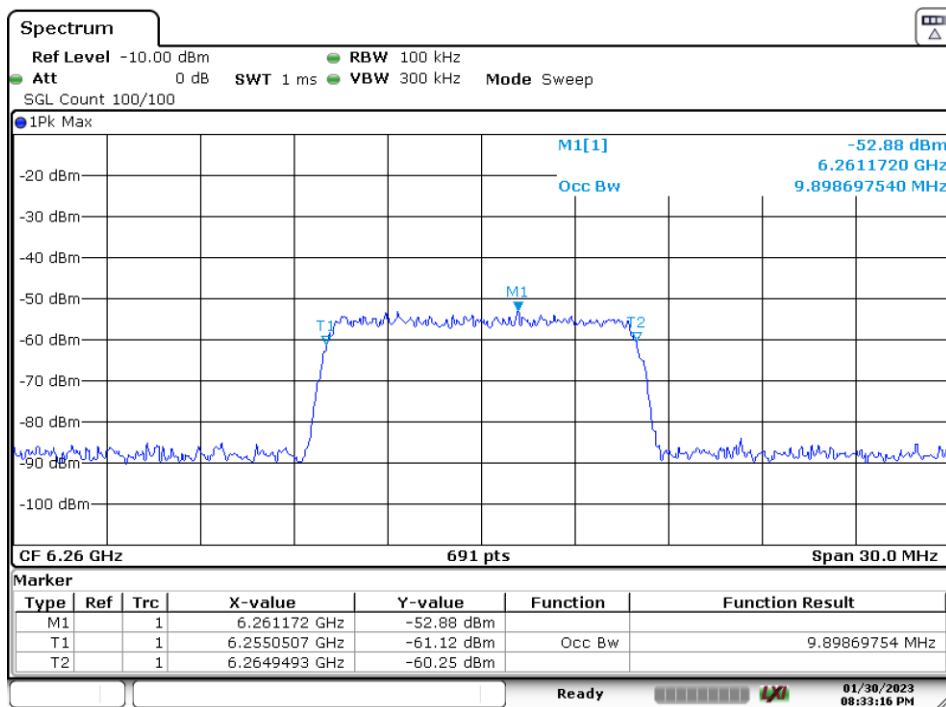
FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 285 of 330

Plot 7-482. AWGN Signal (160MHz (UNII Band 5) – Low)



Date: 30.JAN.2023 20:32:38

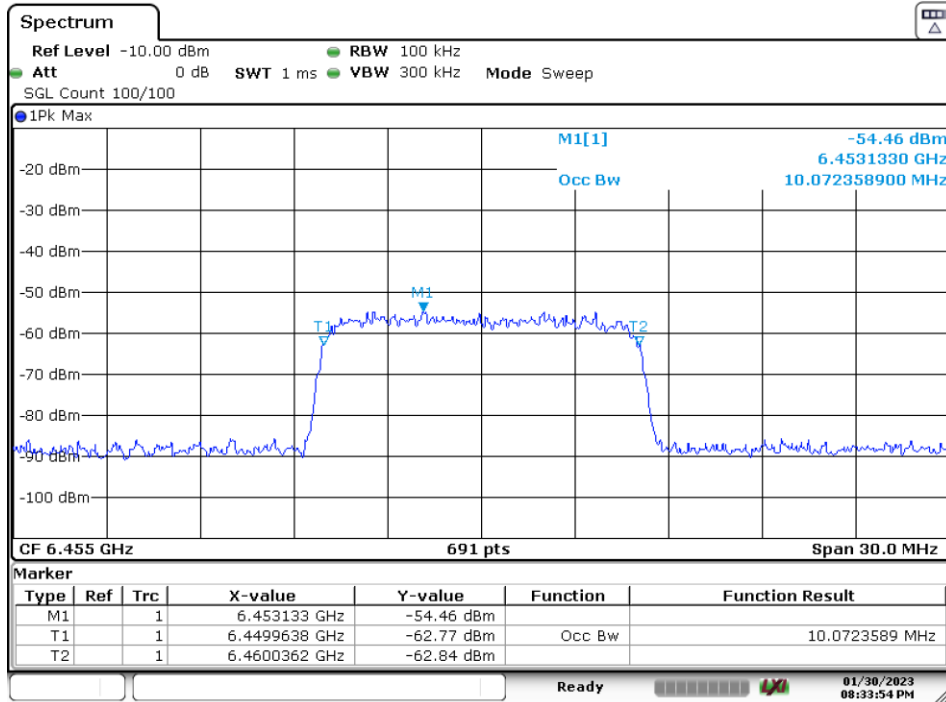
Plot 7-483. AWGN Signal (160MHz (UNII Band 5) – Mid)



Date: 30.JAN.2023 20:33:16

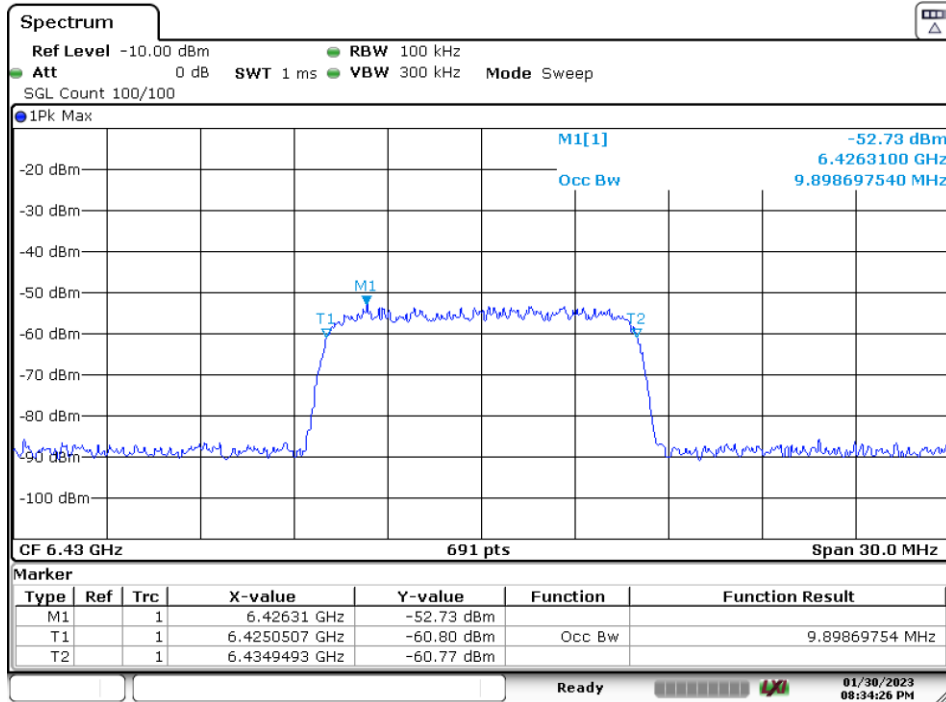
Plot 7-484. AWGN Signal (160MHz (UNII Band 5) – Mid)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 286 of 330



Date: 30.JAN.2023 20:33:54

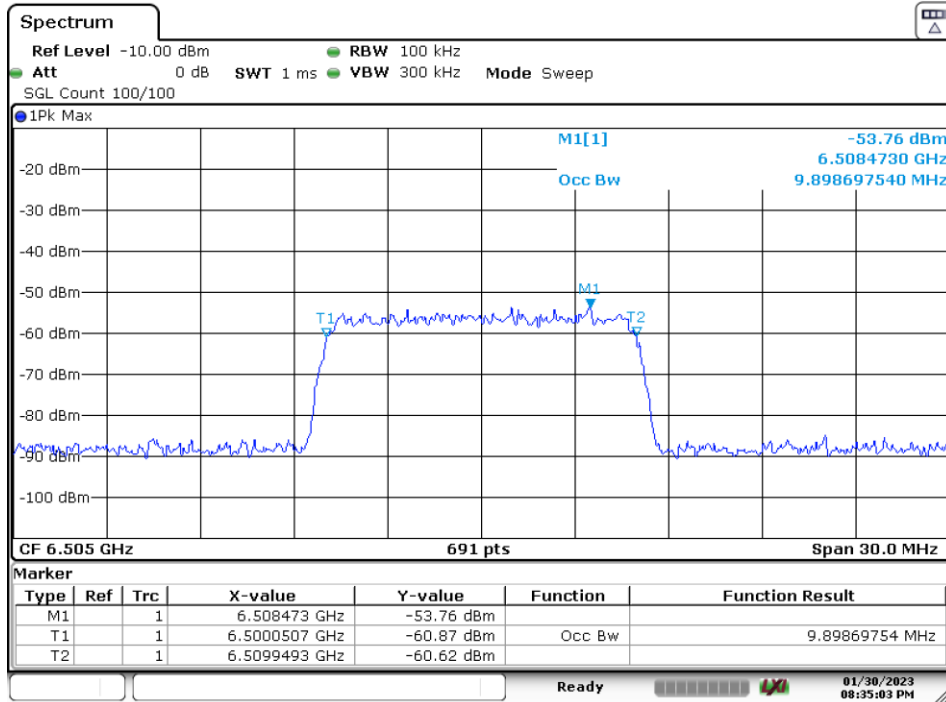
Plot 7-485. AWGN Signal (20MHz (UNII Band 6) – Mid)



Date: 30.JAN.2023 20:34:27

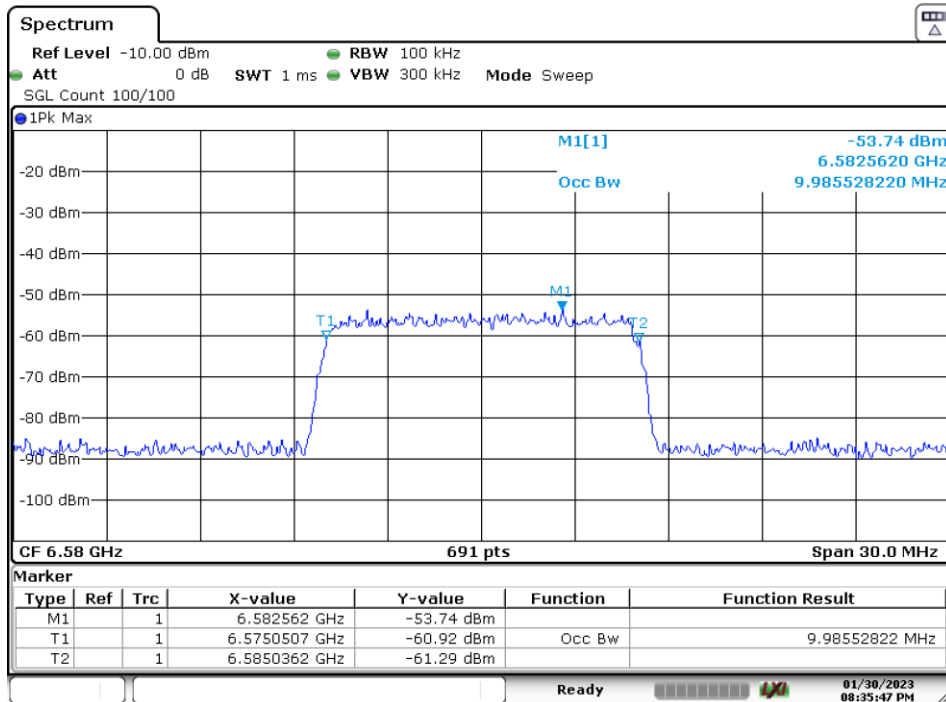
Plot 7-486. AWGN Signal (160MHz (UNII Band 6) – Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 287 of 330



Date: 30.JAN.2023 20:35:03

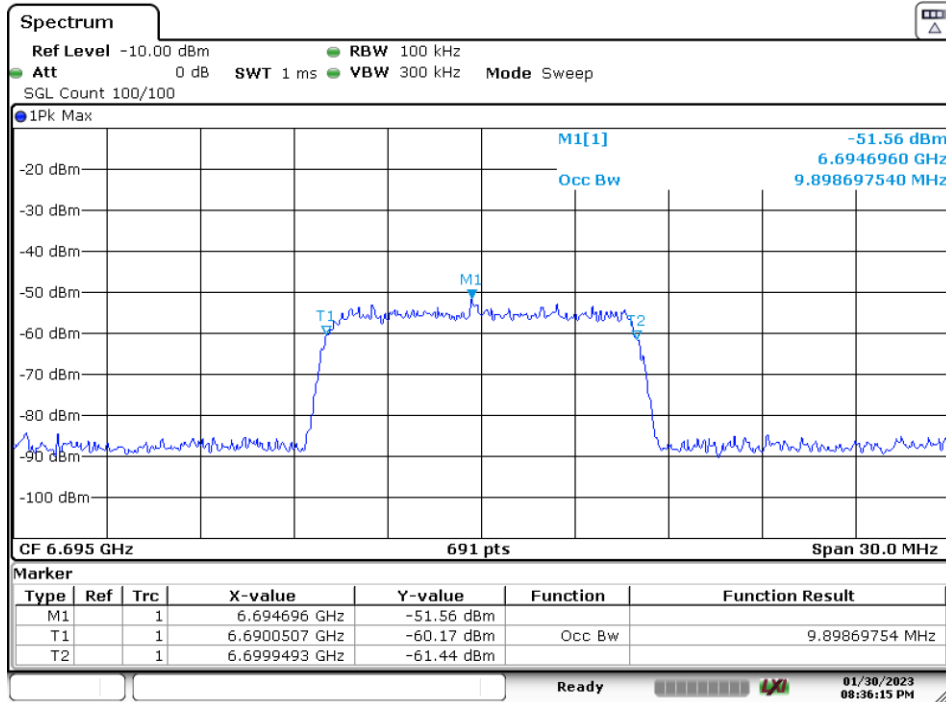
Plot 7-487. AWGN Signal (160MHz (UNII Band 6) – Mid)



Date: 30.JAN.2023 20:35:47

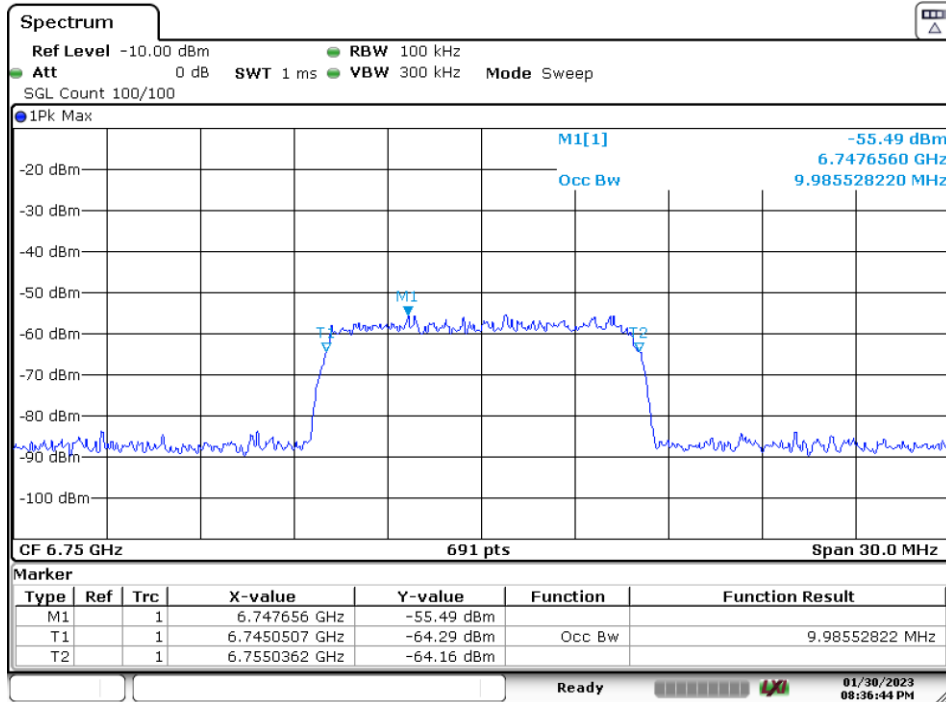
Plot 7-488. AWGN Signal (160MHz (UNII Band 6) – High)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 288 of 330



Date: 30.JAN.2023 20:36:16

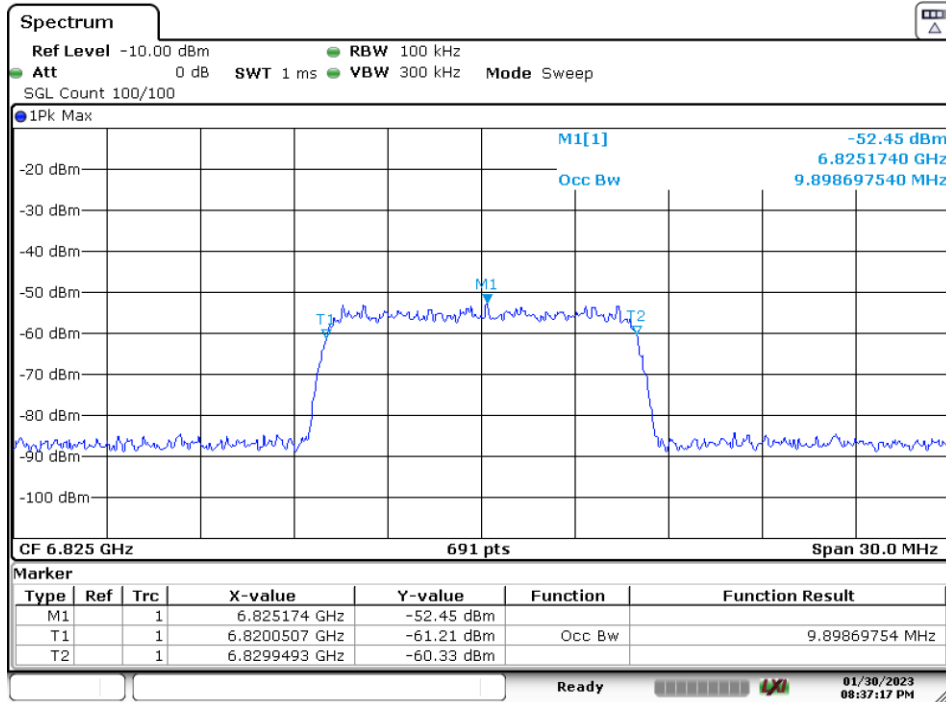
Plot 7-489. AWGN Signal (20MHz (UNII Band 7) – Mid)



Date: 30.JAN.2023 20:36:44

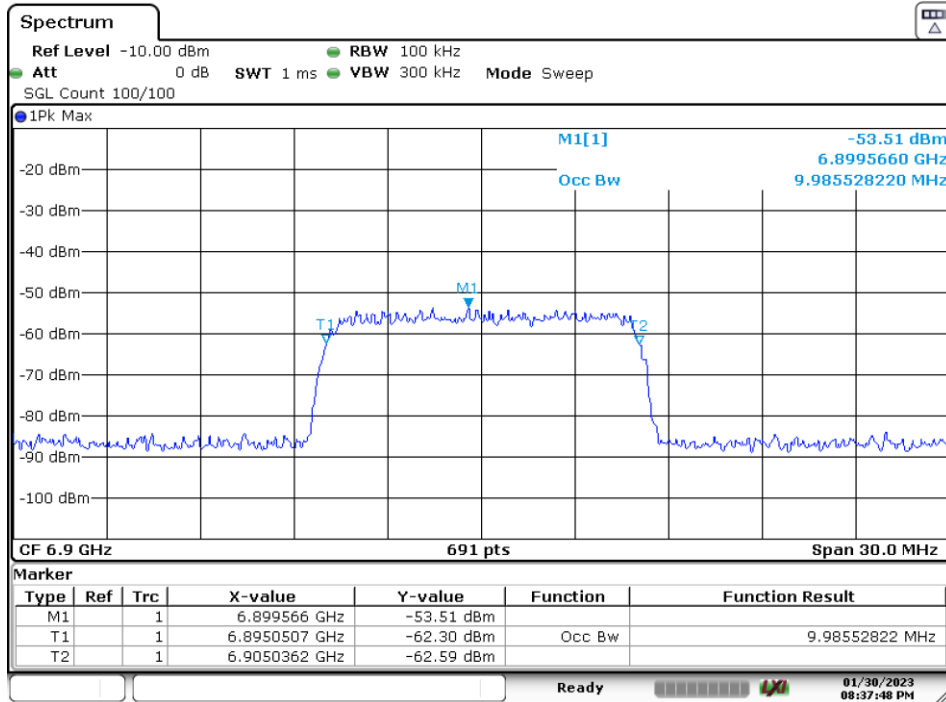
Plot 7-490. AWGN Signal (160MHz (UNII Band 7) – Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 30.JAN.2023 20:37:17

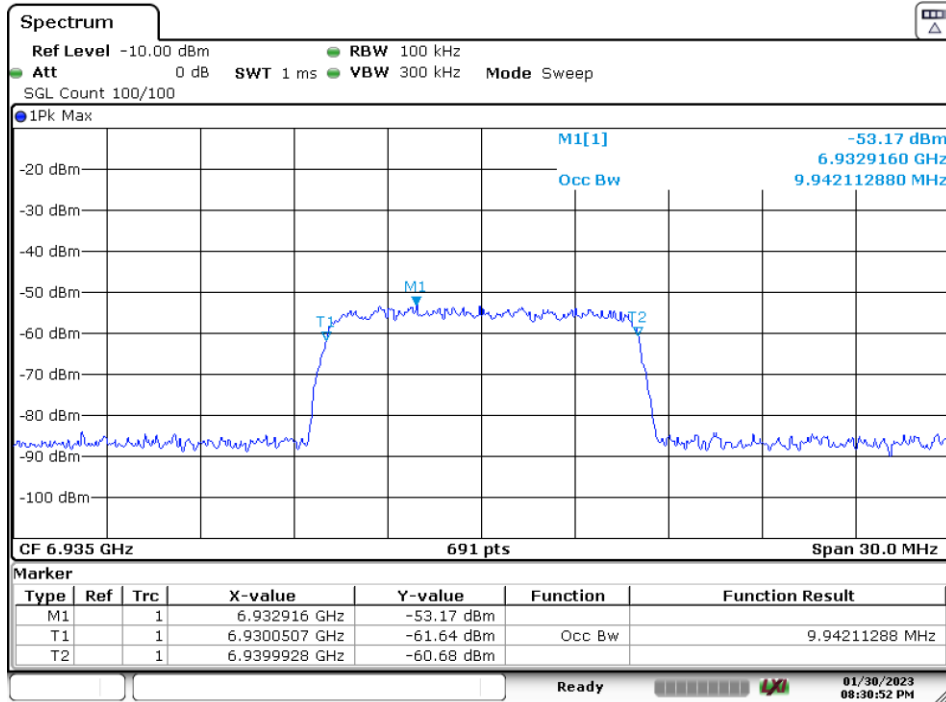
Plot 7-491. AWGN Signal (160MHz (UNII Band 7) – Mid)



Date: 30.JAN.2023 20:37:48

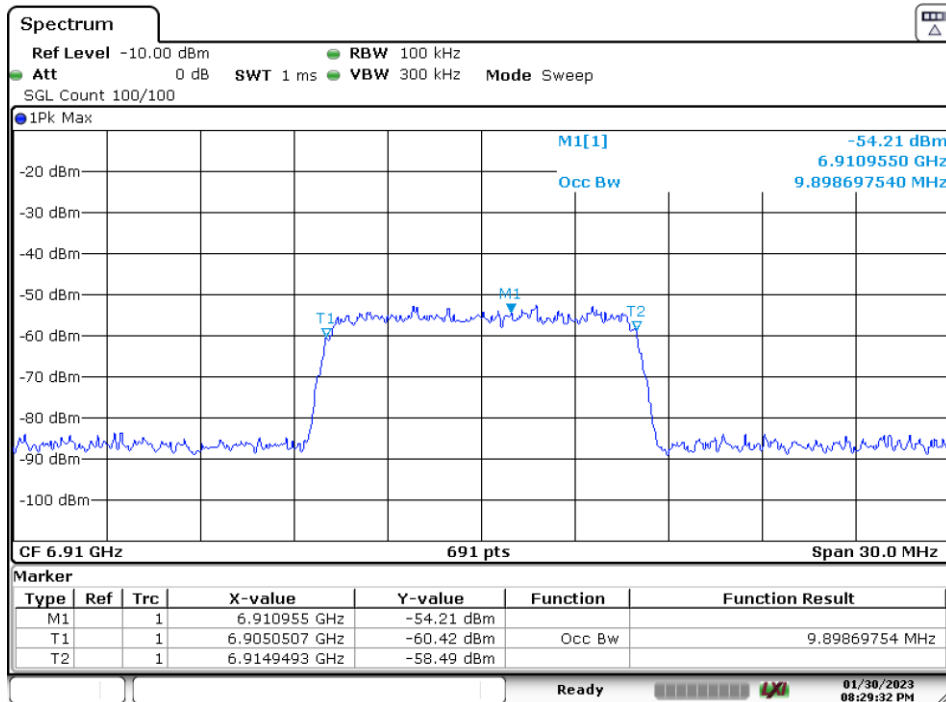
Plot 7-492. AWGN Signal (160MHz (UNII Band 7) – High)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 290 of 330



Date: 30.JAN.2023 20:30:52

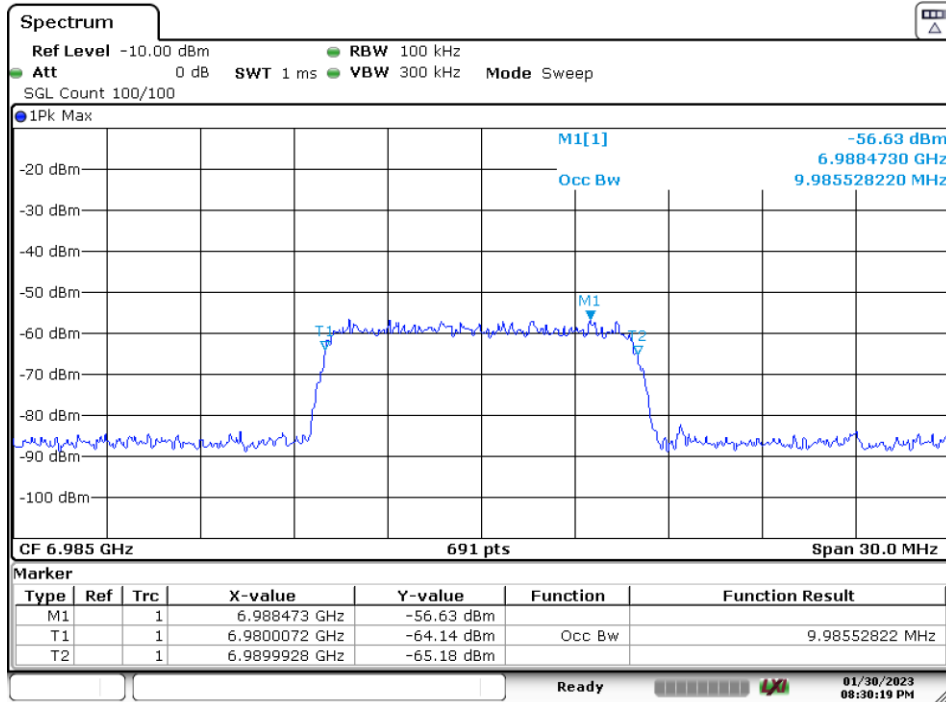
Plot 7-493. AWGN Signal (20MHz (UNII Band 8) – Mid)



Date: 30.JAN.2023 20:29:32

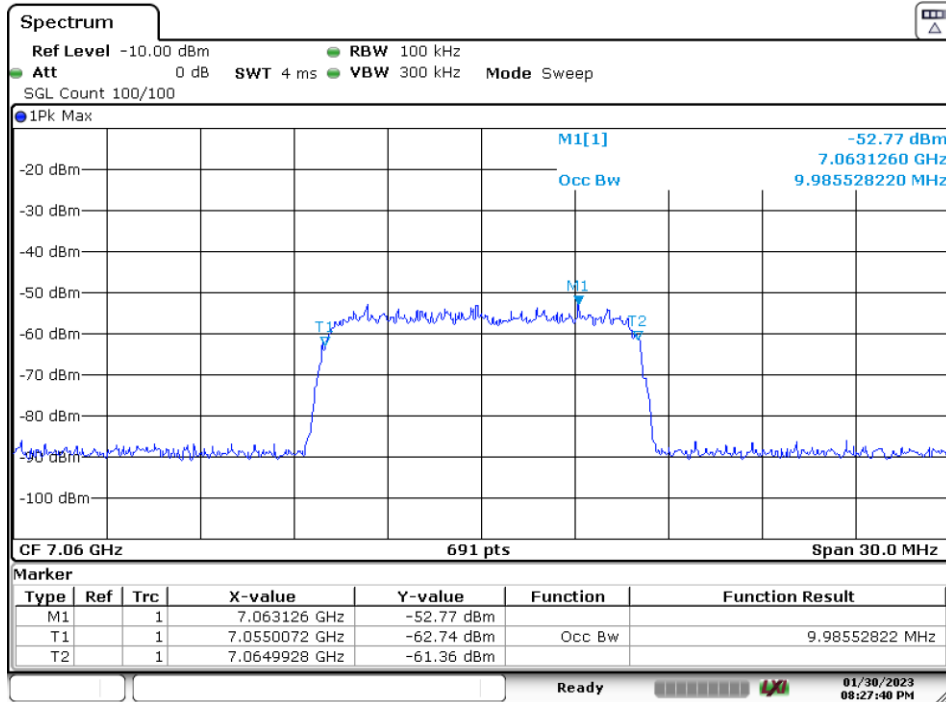
Plot 7-494. AWGN Signal (160MHz (UNII Band 8) – Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 30.JAN.2023 20:30:19

Plot 7-495. AWGN Signal (160MHz (UNII Band 8) – Mid)

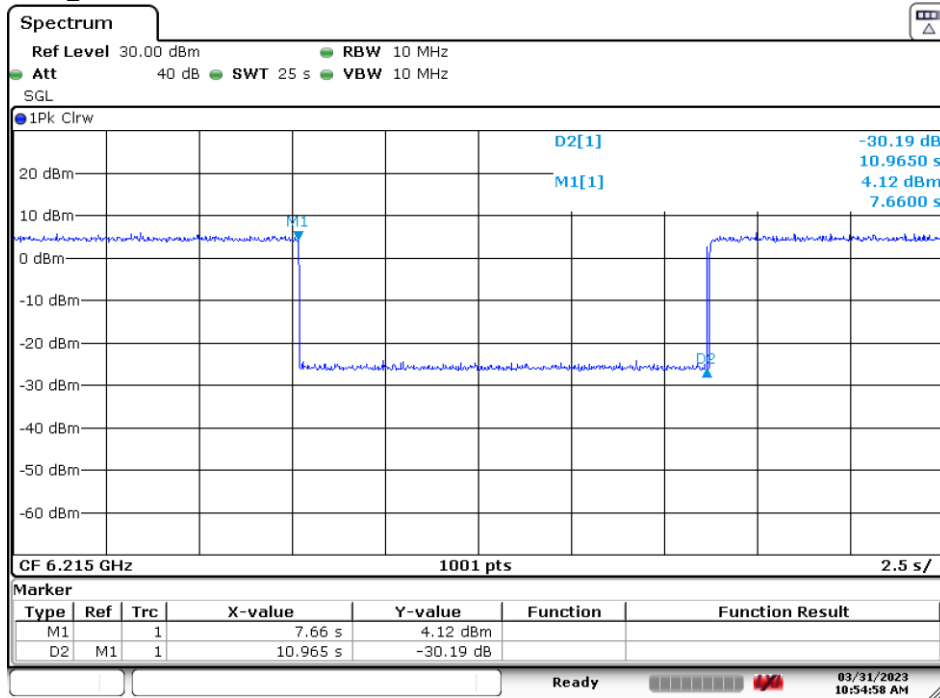


Date: 30.JAN.2023 20:27:40

Plot 7-496. AWGN Signal (160MHz (UNII Band 8) – High)

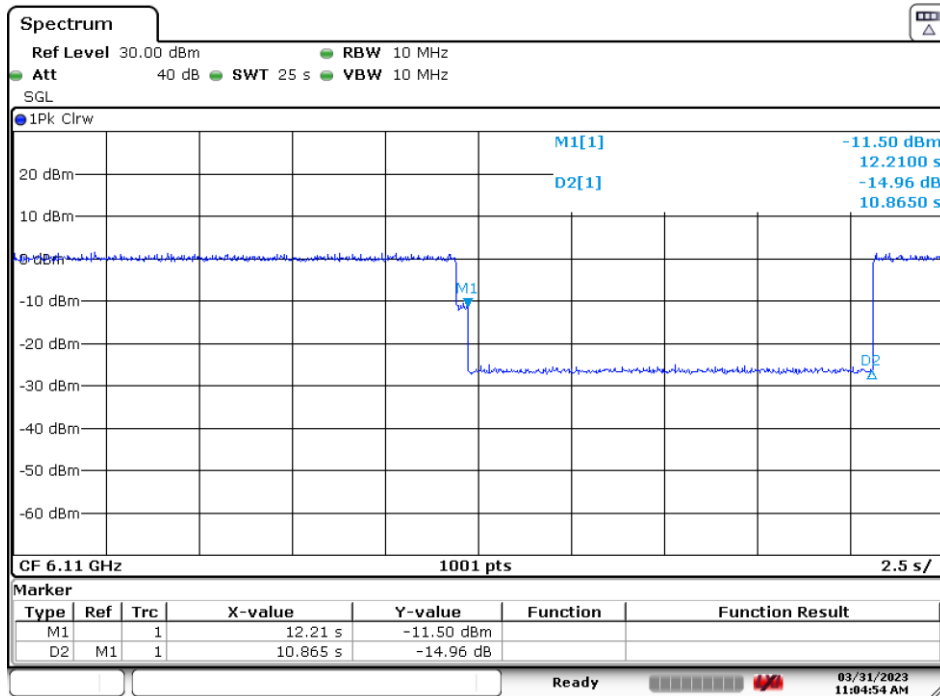
FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 292 of 330

7.6.2 CBP Timing Plots



Date: 31.MAR.2023 10:54:58

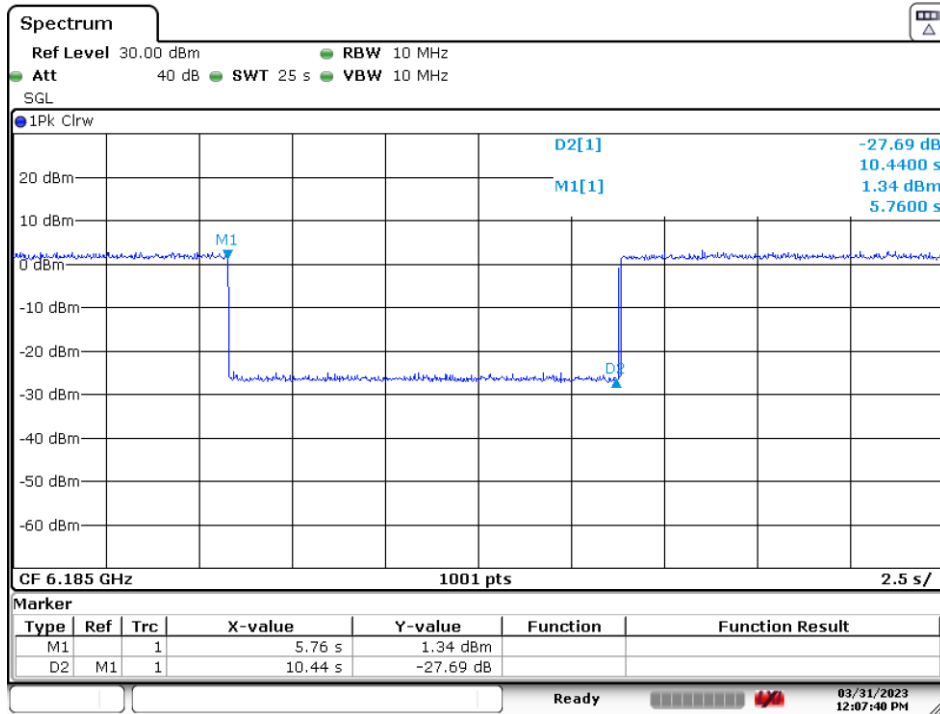
Plot 7-497. Contention Based Protocol Timing Plot (20MHz (UNII Band 5) – Ch. 53)



Date: 31.MAR.2023 11:04:54

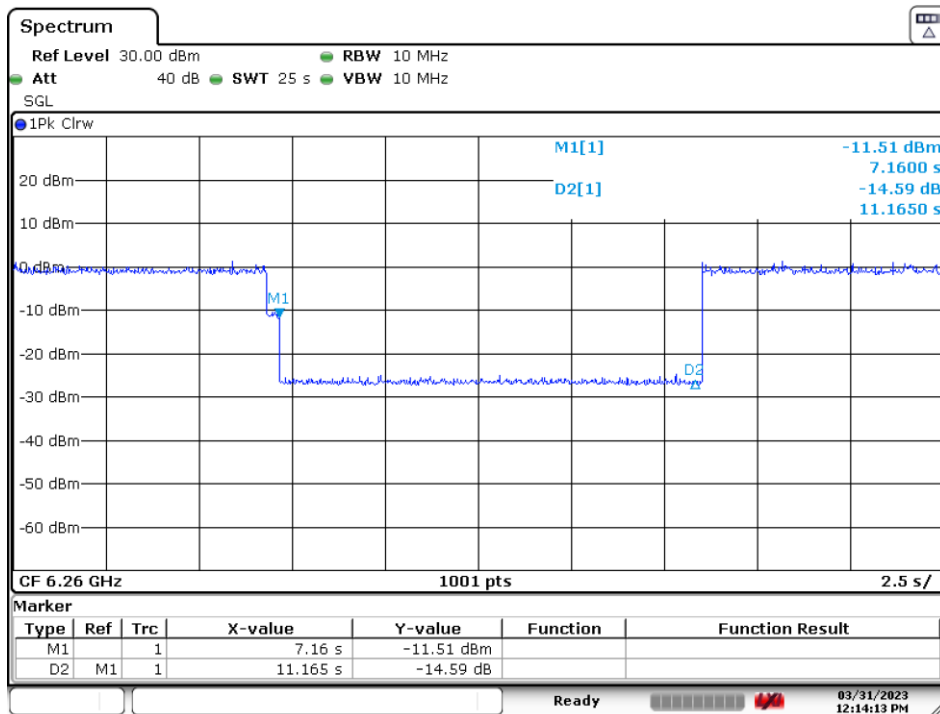
Plot 7-498. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 293 of 330



Date: 31.MAR.2023 12:07:41

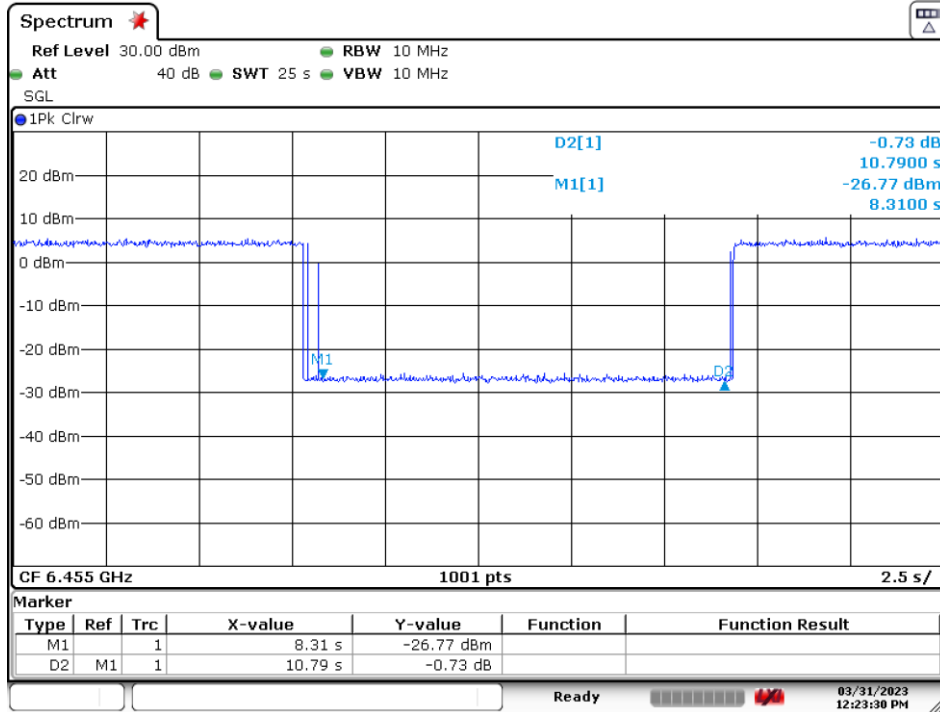
Plot 7-499. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 Mid)



Date: 31.MAR.2023 12:14:12

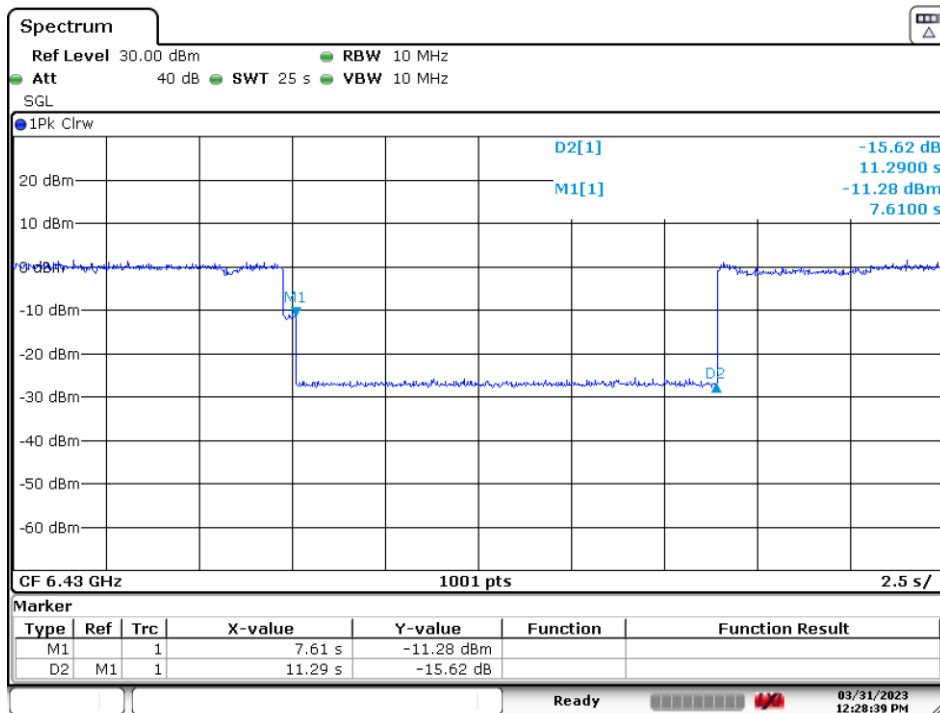
Plot 7-500. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 High)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 31.MAR.2023 12:23:29

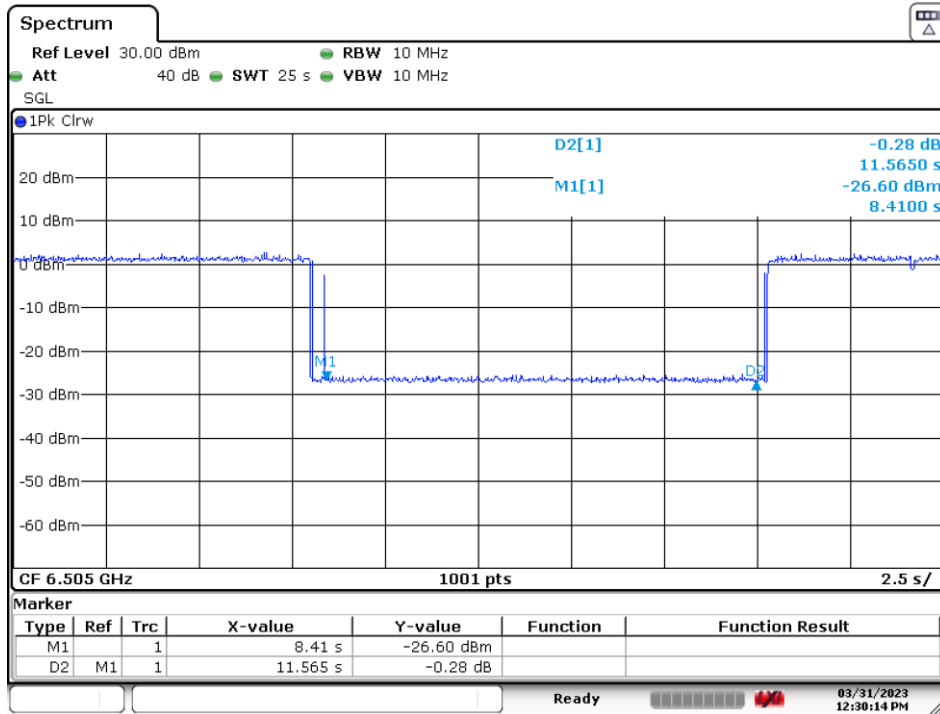
Plot 7-501. Contention Based Protocol Timing Plot (20MHz (UNII Band 6) – Ch. 101)



Date: 31.MAR.2023 12:28:38

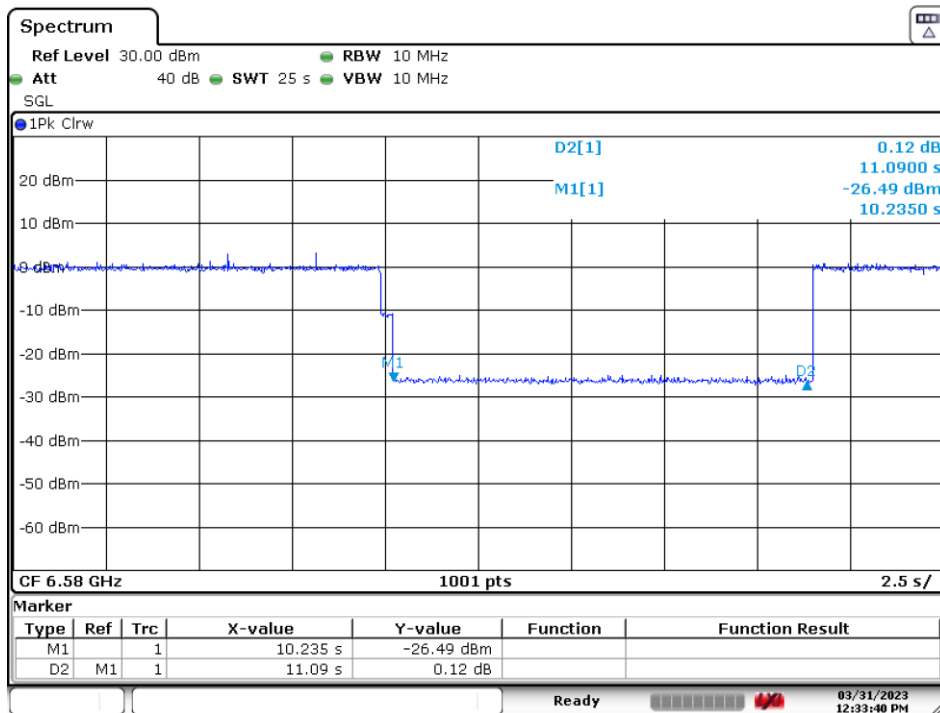
Plot 7-502. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 295 of 330



Date: 31.MAR.2023 12:30:14

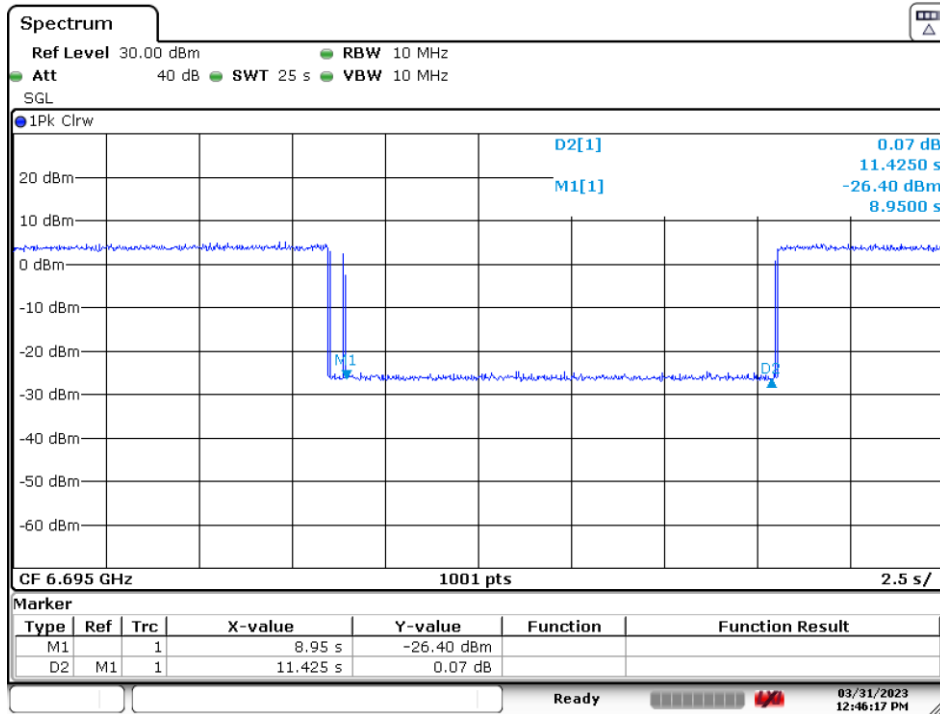
Plot 7-503. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 Mid)



Date: 31.MAR.2023 12:33:41

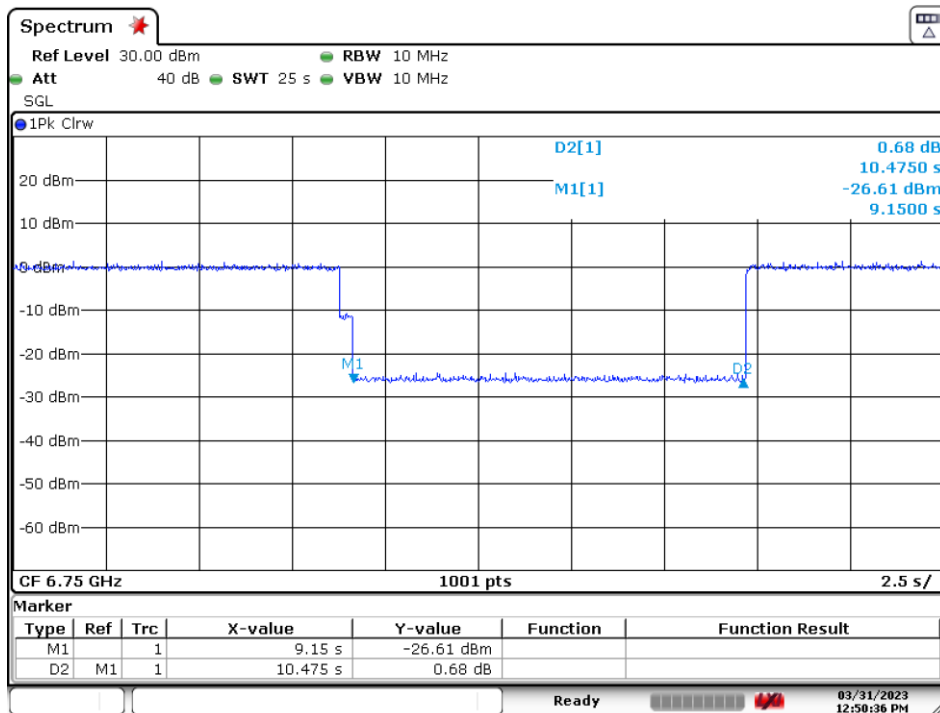
Plot 7-504. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 High)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 296 of 330



Date: 31.MAR.2023 12:46:18

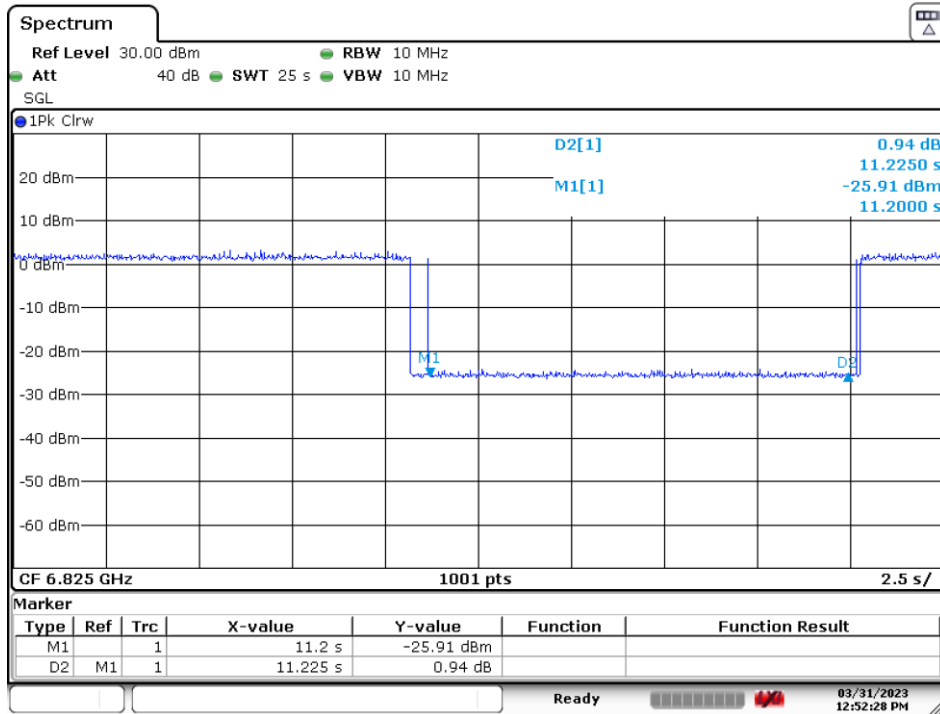
Plot 7-505. Contention Based Protocol Timing Plot (20MHz (UNII Band 7) – Ch. 149)



Date: 31.MAR.2023 12:50:37

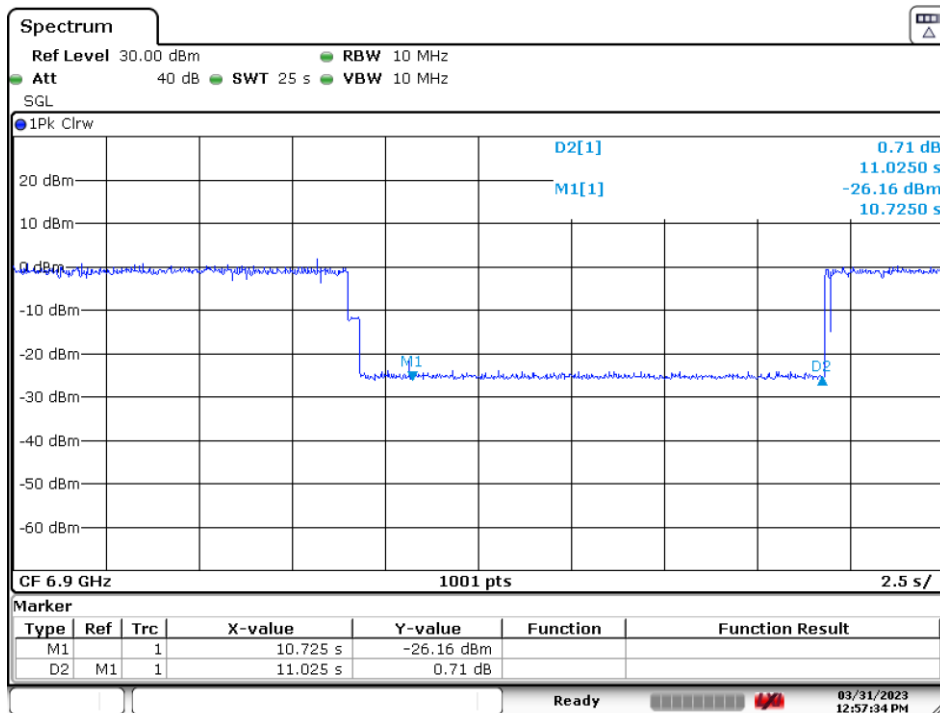
Plot 7-506. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 Low)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 297 of 330



Date: 31.MAR.2023 12:52:28

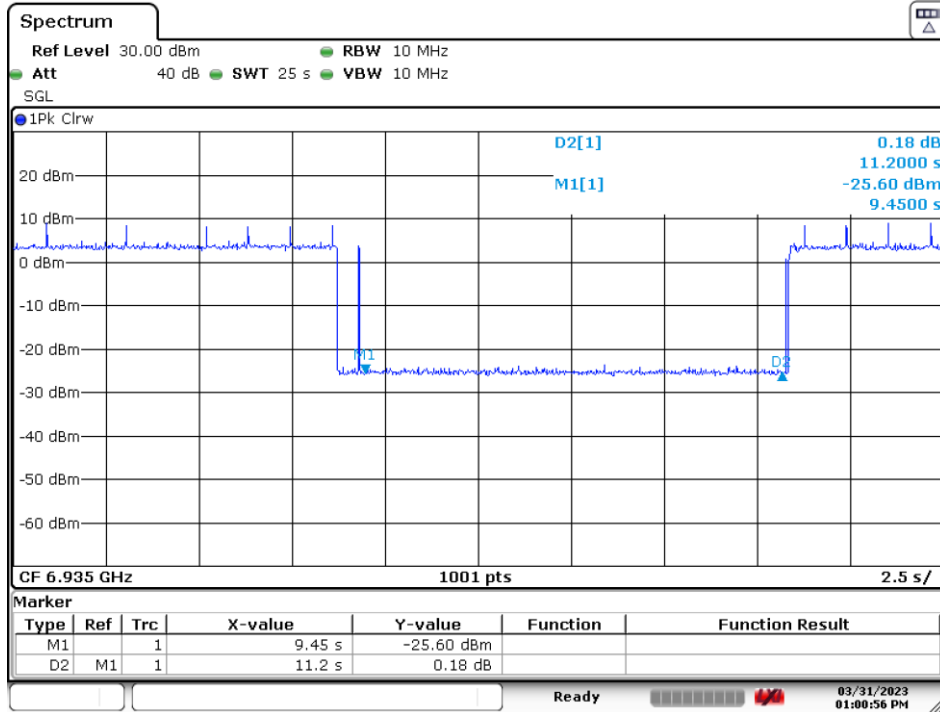
Plot 7-507. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 Mid)



Date: 31.MAR.2023 12:57:33

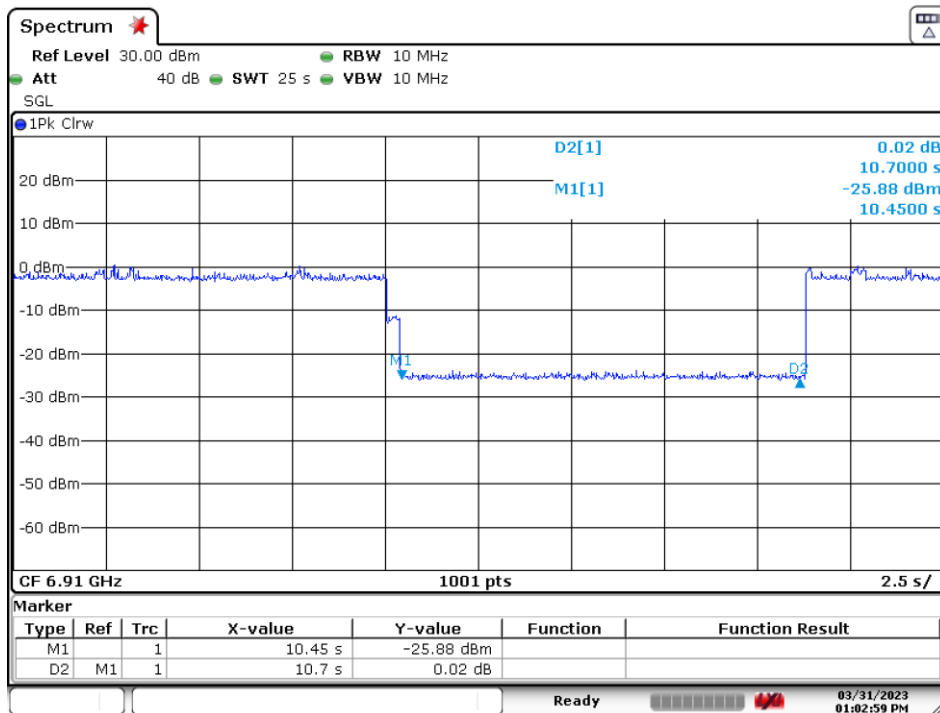
Plot 7-508. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 High)

FCC ID: PY7-84558E		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-09-R3.PY7	Test Dates: 01/30/2023 – 04/17/2023	EUT Type: Portable Handset		Page 298 of 330



Date: 31.MAR.2023 13:00:56

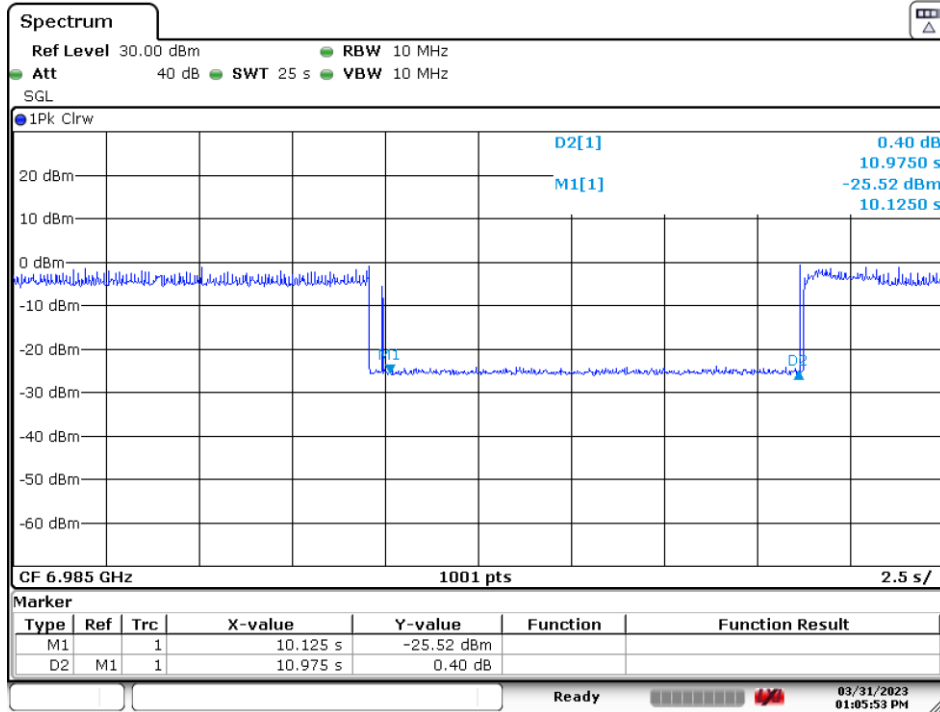
Plot 7-509. Contention Based Protocol Timing Plot (20MHz (UNII Band 8) – Ch. 197)



Date: 31.MAR.2023 13:03:00

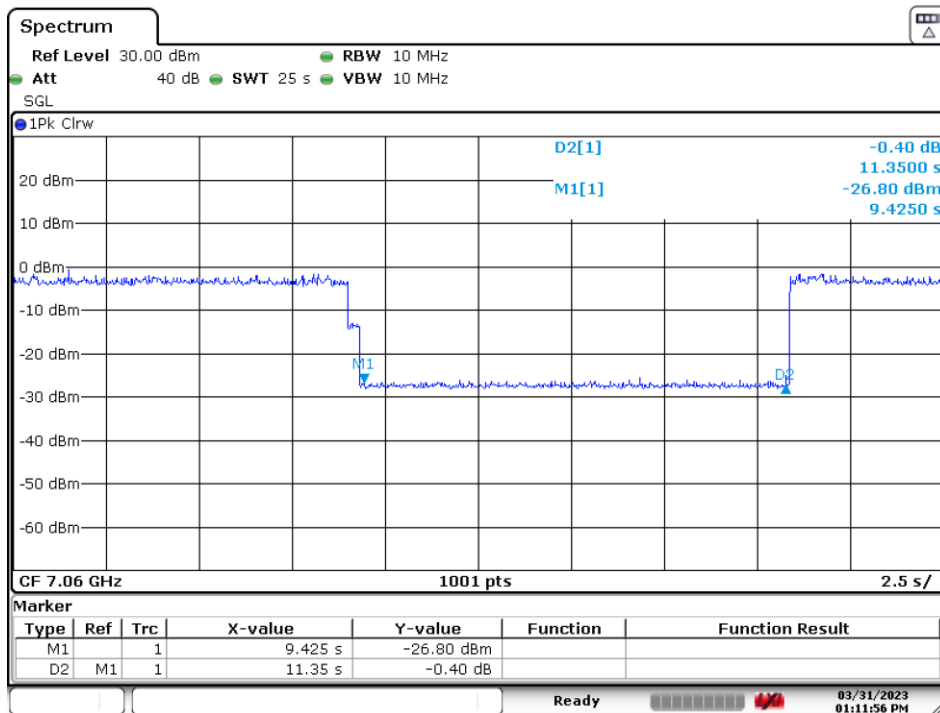
Plot 7-510. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 Low)

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Plot 7-511. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 Mid)



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Plot 7-512. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 High)

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7.7 Radiated Emission Measurements

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 its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax (20/40/80/160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz

Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-14. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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 $\geq 2 \times \text{span} \backslash \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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