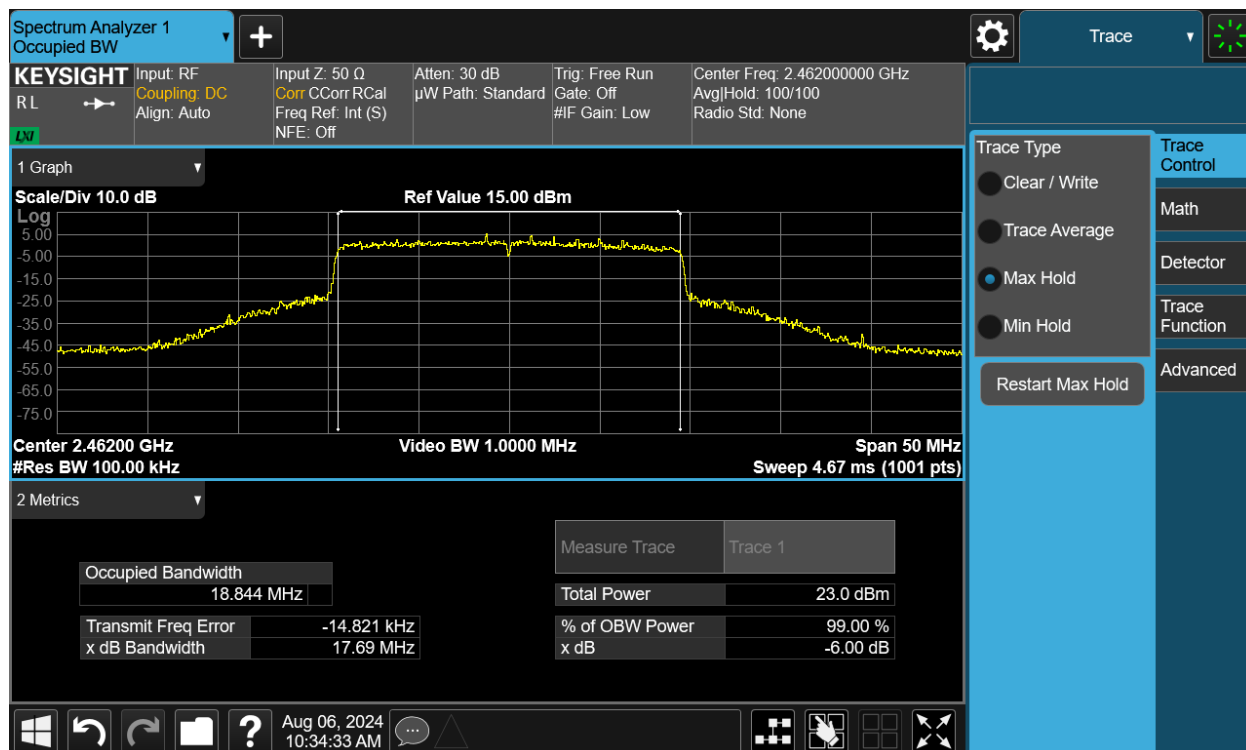


Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) – Ch. 6)



Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) – Ch. 11)

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7.3 Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt per 15.247.

Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method

ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G

ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

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IEEE 802.11b	2.4GHz WiFi (20MHz 802.11b SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	15.59		
	2437	6		15.28		
	2462	11		15.46		
	2467	12		8.23		
	2472	13		2.23		
	2412	1	Peak	18.23		
	2437	6		17.85		
	2462	11		18.03		
2467	12	11.04				
2472	13	5.11				
IEEE 802.11g	2.4GHz WiFi (20MHz 802.11g SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.66		
	2437	6		16.15		
	2462	11		16.43		
	2467	12		8.19		
	2472	13		2.24		
	2412	1	Peak	23.89		
	2437	6		23.72		
	2462	11		23.18		
2467	12	15.34				
2472	13	10.78				
IEEE 802.11n	2.4GHz WiFi (20MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.56		
	2437	6		16.42		
	2462	11		16.41		
	2467	12		8.24		
	2472	13		2.23		
	2412	1	Peak	23.84		
	2437	6		23.82		
	2462	11		23.05		
2467	12	16.18				
2472	13	10.54				
IEEE 802.11ac	2.4GHz WiFi (20MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	15.47		
	2437	6		15.38		
	2462	11		15.35		
	2467	12		8.23		
	2472	13		2.11		
	2412	1	Peak	23.83		
	2437	6		23.68		
	2462	11		22.48		
2467	12	16.21				
2472	13	10.18				
IEEE 802.11ax SU	2.4GHz WiFi (20MHz 802.11ax SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.51		
	2437	6		16.63		
	2462	11		16.61		
	2467	12		8.48		
	2472	13		2.54		
	2412	1	Peak	23.61		
	2437	6		23.75		
	2462	11		23.27		
2467	12	16.15				
2472	13	10.56				
IEEE 802.11be SU	2.4GHz WiFi (20MHz 802.11be SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.48		
	2437	6		16.54		
	2462	11		16.62		
	2467	12		8.39		
	2472	13		2.28		
	2412	1	Peak	23.68		
	2437	6		23.74		
	2462	11		23.27		
2467	12	16.12				
2472	13	10.64				

Table 7-5. Conducted Output Power Measurements SISO ANT1

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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IEEE 802.11b	2.4GHz WIFI (20MHz 802.11b SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	15.41	30.00	-14.59
	2437	6		15.62	30.00	-14.38
	2462	11		15.54	30.00	-14.46
	2467	12		8.46	30.00	-21.54
	2472	13		2.70	30.00	-27.30
	2412	1	Peak	18.16	30.00	-11.84
	2437	6		17.85	30.00	-12.15
	2462	11		18.13	30.00	-11.87
2467	12	10.98		30.00	-19.02	
2472	13	5.26		30.00	-24.74	
IEEE 802.11g	2.4GHz WIFI (20MHz 802.11g SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.28	30.00	-13.72
	2437	6		16.31	30.00	-13.69
	2462	11		16.03	30.00	-13.97
	2467	12		8.49	30.00	-21.51
	2472	13		2.76	30.00	-27.24
	2412	1	Peak	24.22	30.00	-5.78
	2437	6		24.08	30.00	-5.92
	2462	11		23.06	30.00	-6.94
2467	12	15.85		30.00	-14.15	
2472	13	11.24		30.00	-18.76	
IEEE 802.11n	2.4GHz WIFI (20MHz 802.11n SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.23	30.00	-13.77
	2437	6		16.15	30.00	-13.85
	2462	11		16.04	30.00	-13.96
	2467	12		8.46	30.00	-21.54
	2472	13		2.97	30.00	-27.03
	2412	1	Peak	24.04	30.00	-5.96
	2437	6		24.05	30.00	-5.95
	2462	11		23.21	30.00	-6.79
2467	12	15.91		30.00	-14.09	
2472	13	11.27		30.00	-18.73	
IEEE 802.11ac	2.4GHz WIFI (20MHz 802.11ac SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	15.22	30.00	-14.78
	2437	6		15.18	30.00	-14.82
	2462	11		15.03	30.00	-14.97
	2467	12		8.48	30.00	-21.52
	2472	13		2.92	30.00	-27.08
	2412	1	Peak	23.48	30.00	-6.52
	2437	6		23.85	30.00	-6.15
	2462	11		22.24	30.00	-7.76
2467	12	15.89		30.00	-14.11	
2472	13	11.32		30.00	-18.68	
IEEE 802.11ax SU	2.4GHz WIFI (20MHz 802.11ax SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.04	30.00	-13.96
	2437	6		16.42	30.00	-13.58
	2462	11		16.55	30.00	-13.45
	2467	12		8.68	30.00	-21.32
	2472	13		2.97	30.00	-27.03
	2412	1	Peak	24.01	30.00	-5.99
	2437	6		24.18	30.00	-5.82
	2462	11		23.59	30.00	-6.41
2467	12	16.16		30.00	-13.84	
2472	13	11.53		30.00	-18.47	
IEEE 802.11be SU	2.4GHz WIFI (20MHz 802.11be SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]		
	2412	1	Average	16.05	30.00	-13.95
	2437	6		16.38	30.00	-13.62
	2462	11		16.29	30.00	-13.71
	2467	12		8.66	30.00	-21.34
	2472	13		2.84	30.00	-27.16
	2412	1	Peak	24.03	30.00	-5.97
	2437	6		24.13	30.00	-5.87
	2462	11		23.51	30.00	-6.49
2467	12	16.34		30.00	-13.66	
2472	13	11.58		30.00	-18.42	

Table 7-6. Conducted Output Power Measurements SISO ANT2

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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IEEE 802.11b	2.4GHz WiFi (20MHz 802.11b MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
2412	1	Average	15.61	15.24	18.44	30.00	-11.56	
2437	6		15.58	15.36	18.48	30.00	-11.52	
2462	11		15.52	15.38	18.46	30.00	-11.54	
2467	12		8.24	8.51	11.39	30.00	-18.61	
2472	13		2.15	2.98	5.60	30.00	-24.40	
2412	1	Peak	18.71	18.01	21.38	30.00	-8.62	
2437	6		18.11	17.75	20.94	30.00	-9.06	
2462	11		18.01	17.98	21.01	30.00	-8.99	
2467	12		11.15	11.19	14.18	30.00	-15.82	
2472	13		5.09	5.71	8.42	30.00	-21.58	
IEEE 802.11g	2.4GHz WiFi (20MHz 802.11g MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
	2412	1	Average	16.64	16.39	19.53	30.00	-10.47
	2437	6		16.52	16.32	19.43	30.00	-10.57
	2462	11		16.51	16.14	19.34	30.00	-10.66
	2467	12		8.15	8.41	11.29	30.00	-18.71
	2472	13		2.08	2.95	5.55	30.00	-24.45
2412	1	Peak	23.82	24.13	26.99	30.00	-3.01	
2437	6		23.57	24.05	26.83	30.00	-3.17	
2462	11		23.16	23.11	26.15	30.00	-3.85	
2467	12		15.24	15.83	18.56	30.00	-11.44	
2472	13		10.23	11.27	13.79	30.00	-16.21	
IEEE 802.11n	2.4GHz WiFi (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
	2412	1	Average	16.58	16.31	19.46	30.00	-10.54
	2437	6		16.45	16.22	19.35	30.00	-10.65
	2462	11		16.41	16.06	19.25	30.00	-10.75
	2467	12		8.89	8.47	11.70	30.00	-18.30
	2472	13		1.94	2.65	5.32	30.00	-24.68
2412	1	Peak	23.68	23.95	26.83	30.00	-3.17	
2437	6		23.56	23.96	26.77	30.00	-3.23	
2462	11		23.08	23.10	26.10	30.00	-3.90	
2467	12		15.88	15.71	18.81	30.00	-11.19	
2472	13		10.45	10.80	13.64	30.00	-16.36	
IEEE 802.11ac	2.4GHz WiFi (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
	2412	1	Average	15.47	15.51	18.50	30.00	-11.50
	2437	6		15.39	15.17	18.29	30.00	-11.71
	2462	11		15.57	15.03	18.32	30.00	-11.68
	2467	12		8.10	8.30	11.21	30.00	-18.79
	2472	13		2.02	2.93	5.51	30.00	-24.49
2412	1	Peak	23.14	23.32	26.24	30.00	-3.76	
2437	6		23.47	23.88	26.69	30.00	-3.31	
2462	11		22.67	22.16	25.43	30.00	-4.57	
2467	12		15.28	15.65	18.48	30.00	-11.52	
2472	13		10.04	11.23	13.69	30.00	-16.31	
IEEE 802.11ax SU	2.4GHz WiFi (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
	2412	1	Average	16.16	15.94	19.06	30.00	-10.94
	2437	6		16.63	16.67	19.66	30.00	-10.34
	2462	11		16.51	16.25	19.39	30.00	-10.61
	2467	12		8.38	8.63	11.52	30.00	-18.48
	2472	13		2.23	2.91	5.59	30.00	-24.41
2412	1	Peak	23.86	24.02	26.95	30.00	-3.05	
2437	6		23.71	24.11	26.92	30.00	-3.08	
2462	11		23.44	23.36	26.41	30.00	-3.59	
2467	12		15.64	16.14	18.91	30.00	-11.09	
2472	13		10.48	11.13	13.83	30.00	-16.17	
IEEE 802.11be SU	2.4GHz WiFi (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				
				ANT1	ANT2	MIMO		
	2412	1	Average	16.13	15.93	19.04	30.00	-10.96
	2437	6		16.54	16.41	19.49	30.00	-10.51
	2462	11		16.58	16.29	19.45	30.00	-10.55
	2467	12		8.31	8.58	11.46	30.00	-18.54
	2472	13		2.06	2.98	5.55	30.00	-24.45
2412	1	Peak	23.89	24.04	26.98	30.00	-3.02	
2437	6		23.77	24.04	26.92	30.00	-3.08	
2462	11		23.32	23.45	26.40	30.00	-3.60	
2467	12		15.92	16.30	19.12	30.00	-10.88	
2472	13		10.52	11.67	14.14	30.00	-15.86	

Table 7-7. Conducted Output Power Measurements MIMO

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Note:

Per ANSI C63.10-2013 Section 14.2, the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted output power was measured to be 15.61 dBm for Antenna 1 and 15.24 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(15.61\text{dBm} + 15.24\text{ dBm}) = (36.39\text{ mW} + 33.42\text{ mW}) = 69.81\text{ mW} = 18.44\text{ dBm}$$

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7.4 Power Spectral Density

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates are investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

ANSI C63.10-2013 – Section 14.3.1 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 10kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

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Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-2.98	8.00	-10.98	Pass
2437	6	b	1	-4.55	8.00	-12.55	Pass
2462	11	b	1	-3.63	8.00	-11.63	Pass
2412	1	g	6	-4.64	8.00	-12.64	Pass
2437	6	g	6	-5.13	8.00	-13.13	Pass
2462	11	g	6	-5.60	8.00	-13.60	Pass
2412	1	n	6.5/7.2 (MCS0)	-3.96	8.00	-11.96	Pass
2437	6	n	6.5/7.2 (MCS0)	-2.82	8.00	-10.82	Pass
2462	11	n	6.5/7.2 (MCS0)	-3.86	8.00	-11.86	Pass
2412	1	be	6.5/7.2 (MCS0)	-5.28	8.00	-13.28	Pass
2437	6	be	6.5/7.2 (MCS0)	-3.93	8.00	-11.93	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.98	8.00	-12.98	Pass

Table 7-8. Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-3.06	8.00	-11.06	Pass
2437	6	b	1	-3.12	8.00	-11.12	Pass
2462	11	b	1	-3.63	8.00	-11.63	Pass
2412	1	g	6	-4.88	8.00	-12.88	Pass
2437	6	g	6	-3.61	8.00	-11.61	Pass
2462	11	g	6	-4.11	8.00	-12.11	Pass
2412	1	n	6.5/7.2 (MCS0)	-4.43	8.00	-12.43	Pass
2437	6	n	6.5/7.2 (MCS0)	-3.96	8.00	-11.96	Pass
2462	11	n	6.5/7.2 (MCS0)	-4.02	8.00	-12.02	Pass
2412	1	be	6.5/7.2 (MCS0)	-4.95	8.00	-12.95	Pass
2437	6	be	6.5/7.2 (MCS0)	-3.56	8.00	-11.56	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.53	8.00	-12.53	Pass

Table 7-9. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-3.30	-4.80	-0.98	8.00	-8.98	Pass
2437	6	b	1	-3.99	-4.94	-1.43	8.00	-9.43	Pass
2462	11	b	1	-4.16	-4.38	-1.26	8.00	-9.26	Pass
2412	1	g	6	-4.57	-4.65	-1.60	8.00	-9.60	Pass
2437	6	g	6	-4.08	-4.76	-1.40	8.00	-9.40	Pass
2462	11	g	6	-5.43	-4.84	-2.11	8.00	-10.11	Pass
2412	1	n	6.5/7.2 (MCS0)	-5.33	-4.13	-1.68	8.00	-9.68	Pass
2437	6	n	6.5/7.2 (MCS0)	-4.14	-3.12	-0.59	8.00	-8.59	Pass
2462	11	n	6.5/7.2 (MCS0)	-4.34	-3.19	-0.72	8.00	-8.72	Pass
2412	1	be	6.5/7.2 (MCS0)	-4.97	-4.44	-1.69	8.00	-9.69	Pass
2437	6	be	6.5/7.2 (MCS0)	-4.58	-3.83	-1.18	8.00	-9.18	Pass
2462	11	be	6.5/7.2 (MCS0)	-4.60	-4.78	-1.68	8.00	-9.68	Pass

Table 7-10. Conducted Power Spectral Density Measurements MIMO

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 51 of 150

7.4.1 SISO Antenna-1 Power Spectral Density Measurements



Plot 7-49. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 1)

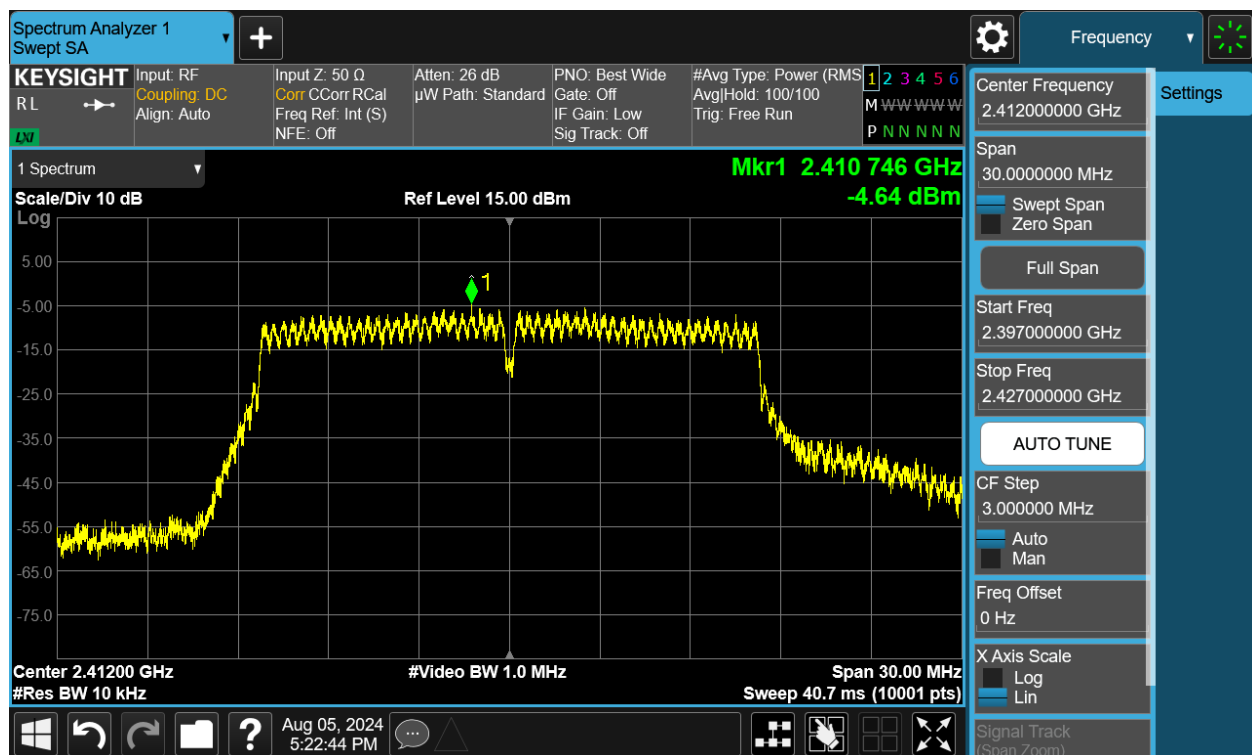


Plot 7-50. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 52 of 150

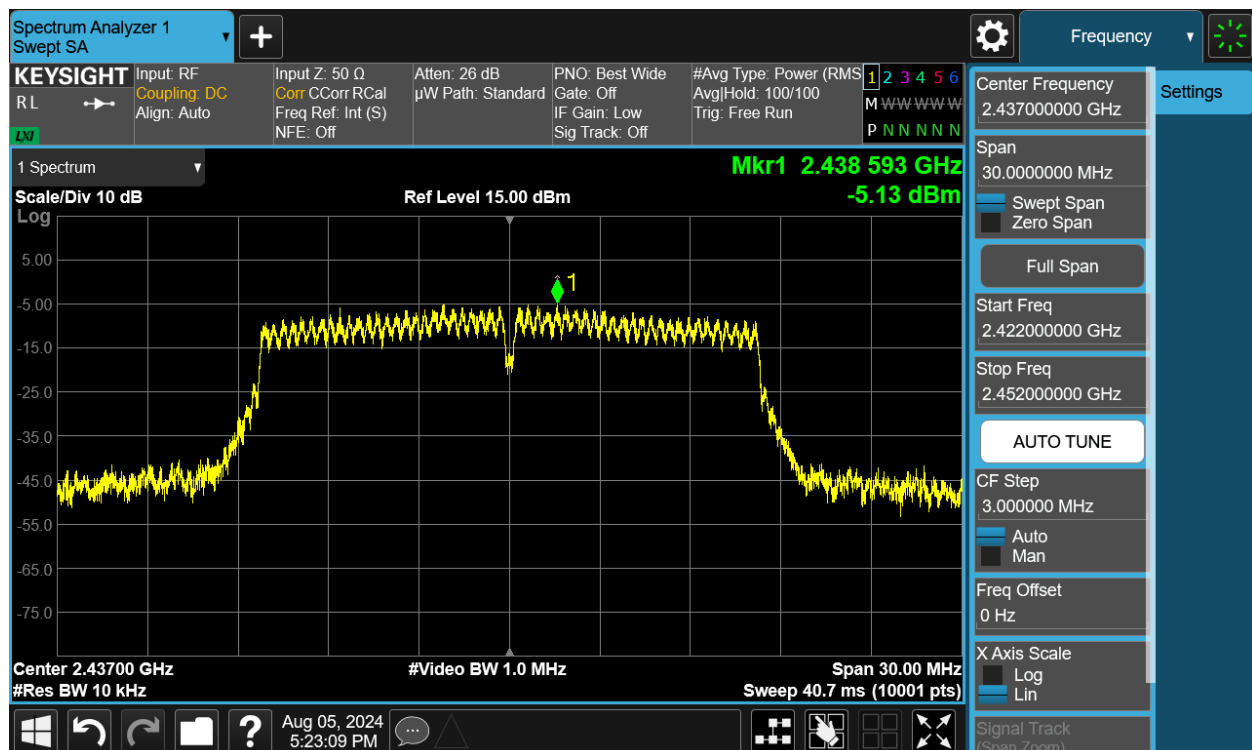


Plot 7-51. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 11)

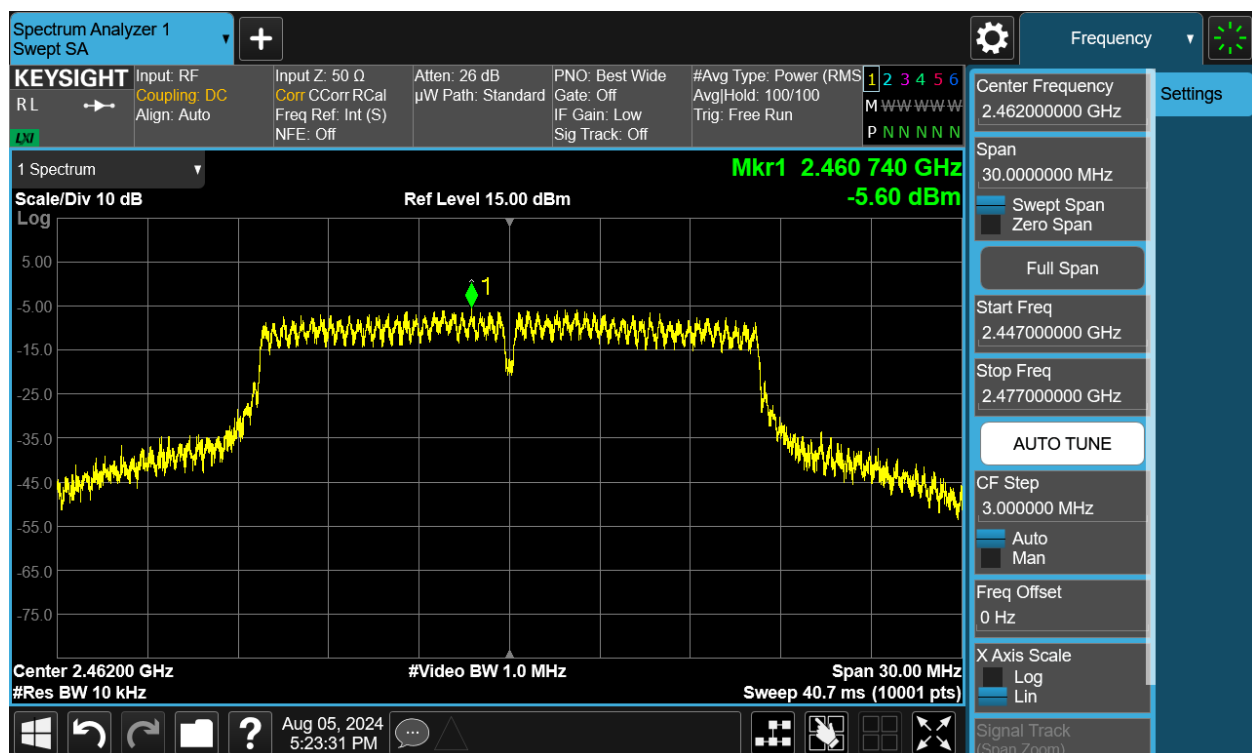


Plot 7-52. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 53 of 150

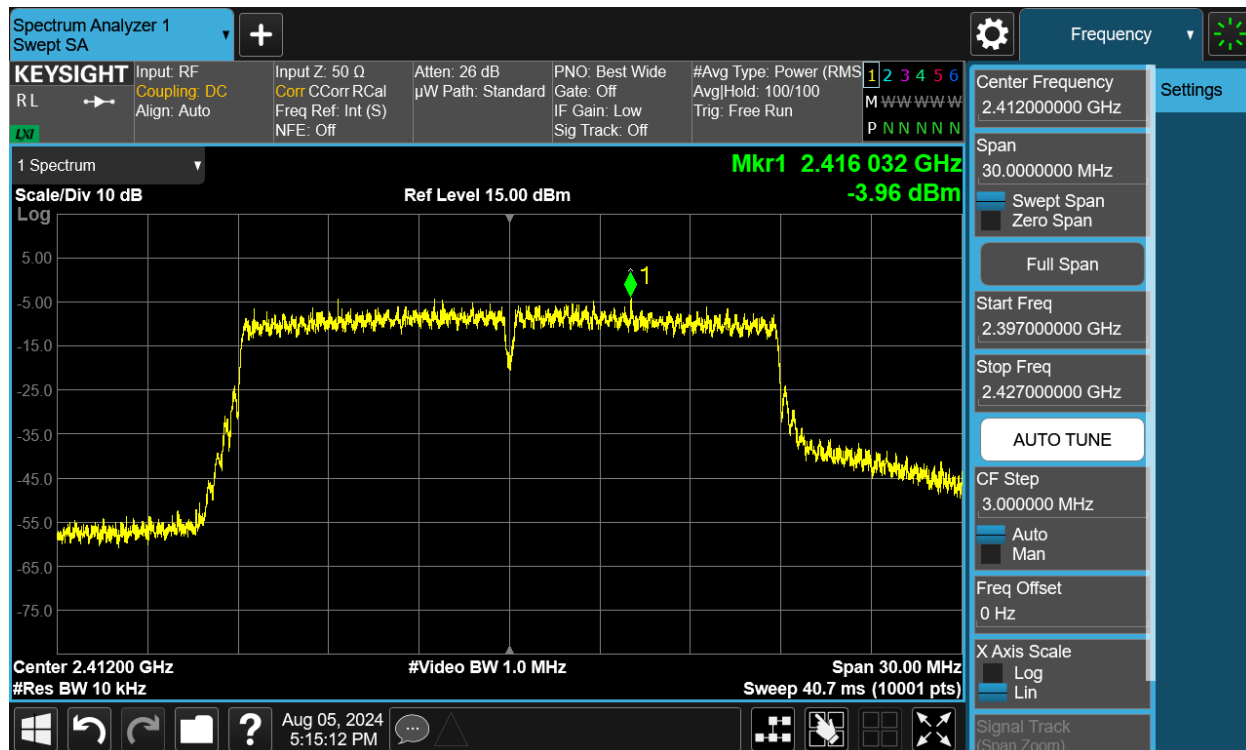


Plot 7-53. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 6)

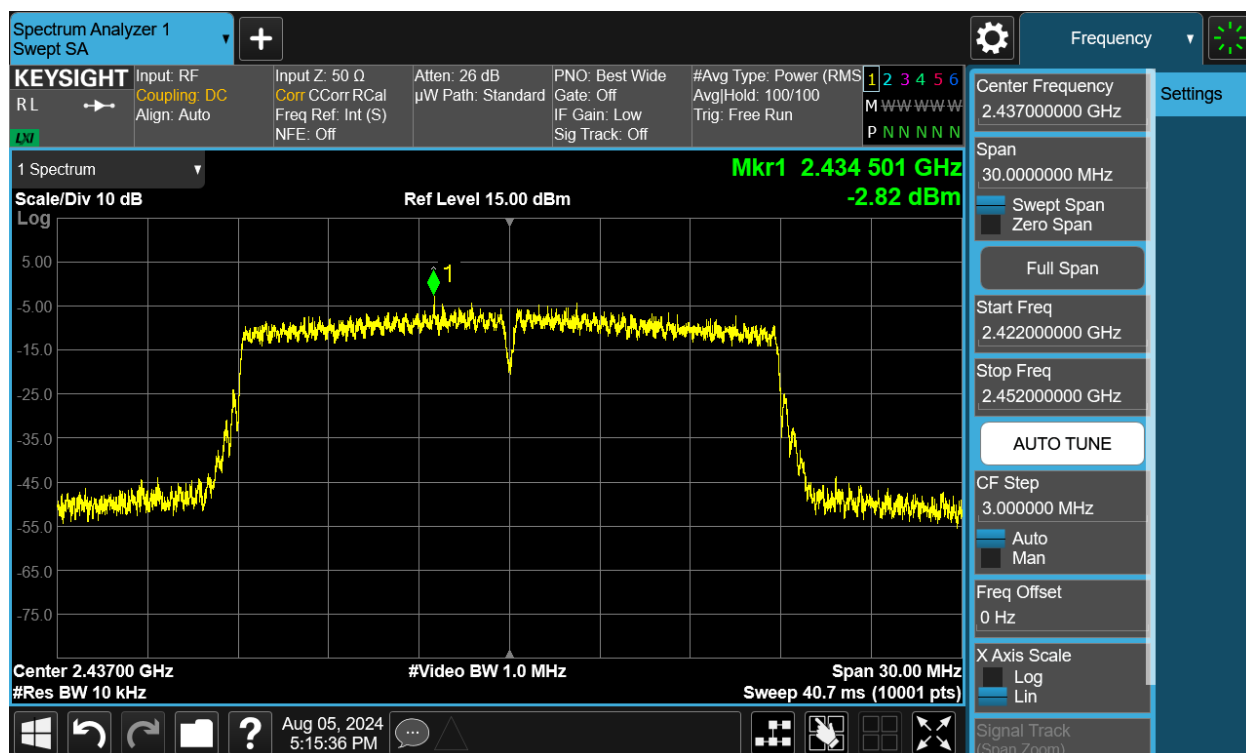


Plot 7-54. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 54 of 150

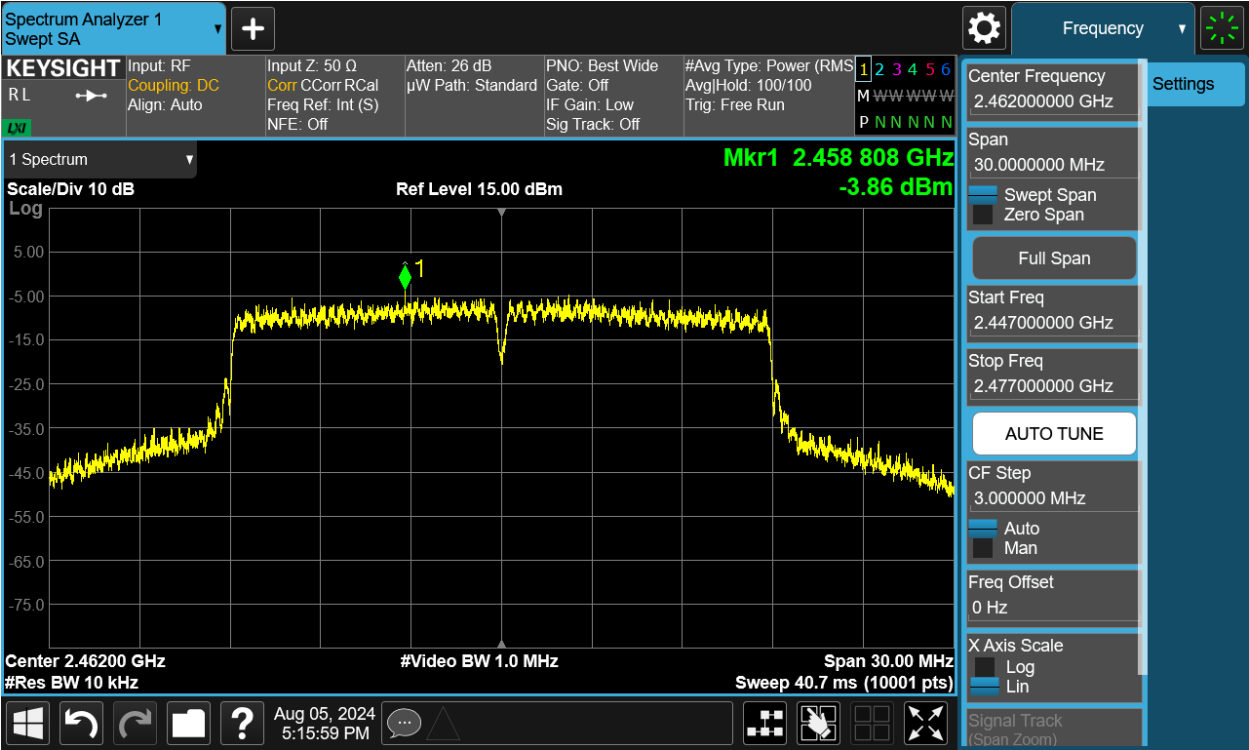


Plot 7-55. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)



Plot 7-56. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 55 of 150

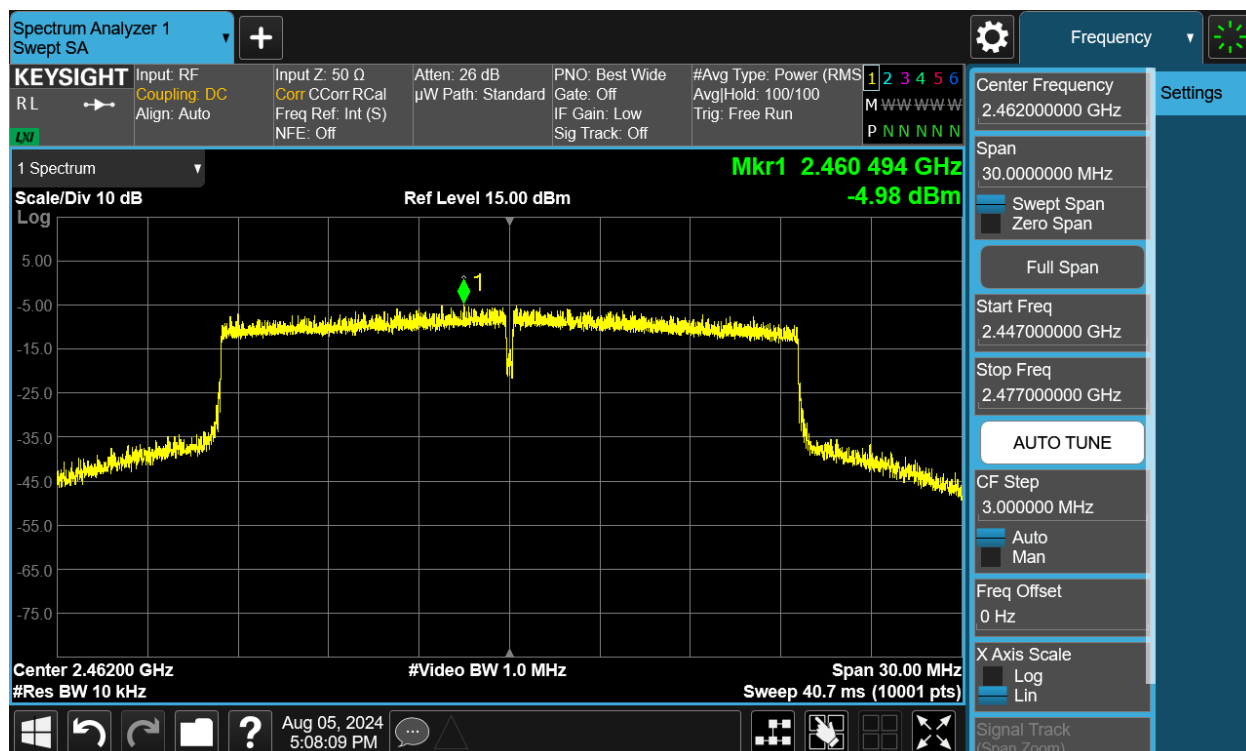
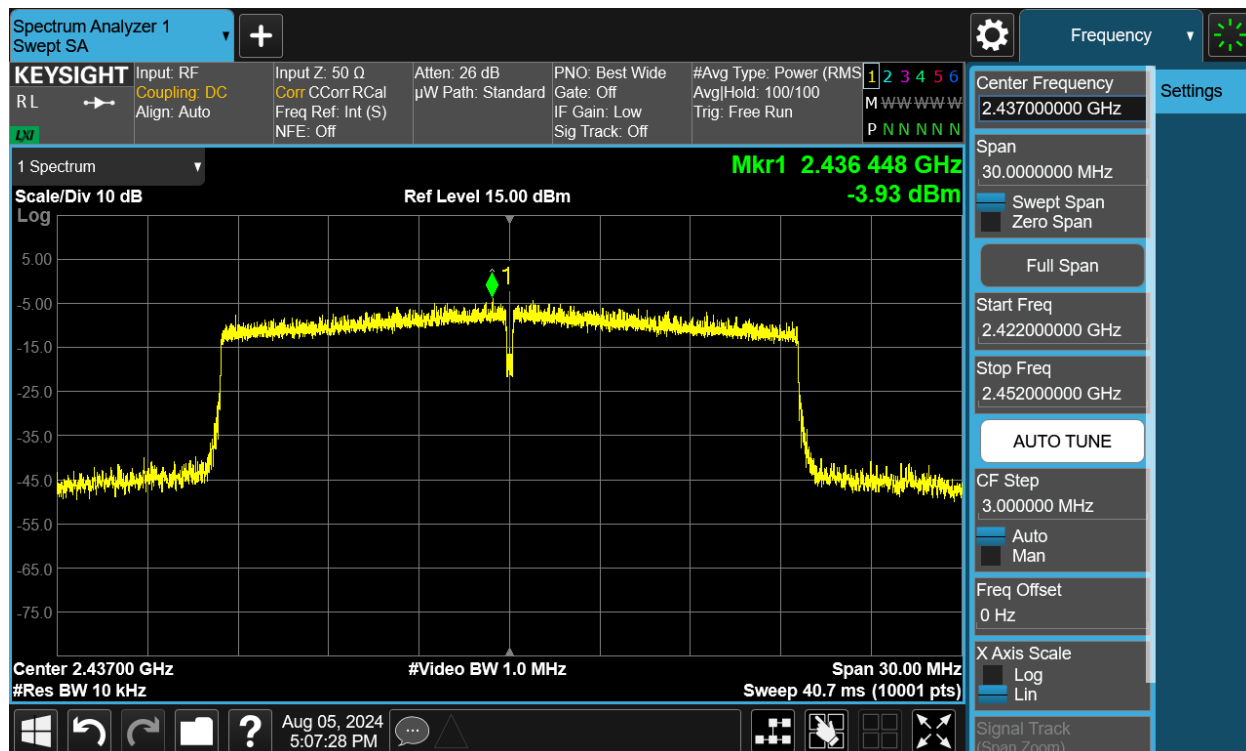


Plot 7-57. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)



Plot 7-58. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 56 of 150



FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 57 of 150

7.4.2 SISO Antenna-2 Power Spectral Density Measurements



Plot 7-61. Power Spectral Density Plot SISO ANT2 (802.11b – Ch. 1)

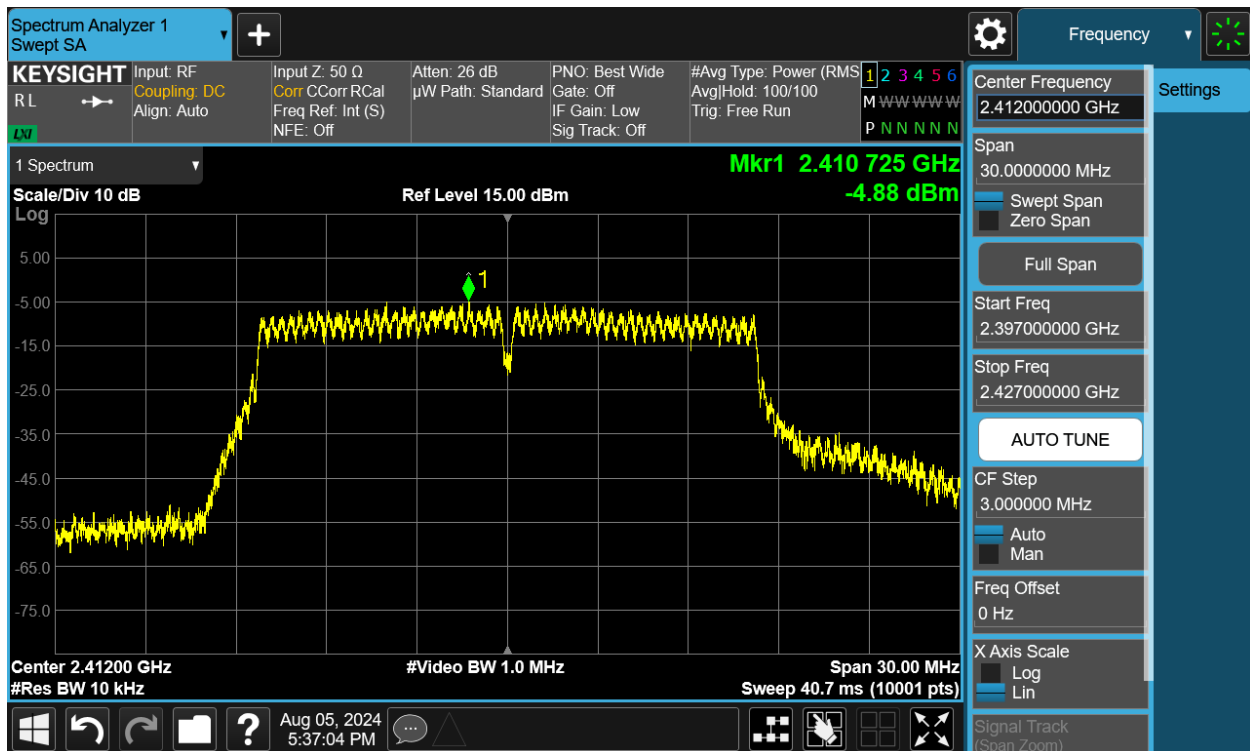


Plot 7-62. Power Spectral Density Plot SISO ANT2 (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 58 of 150

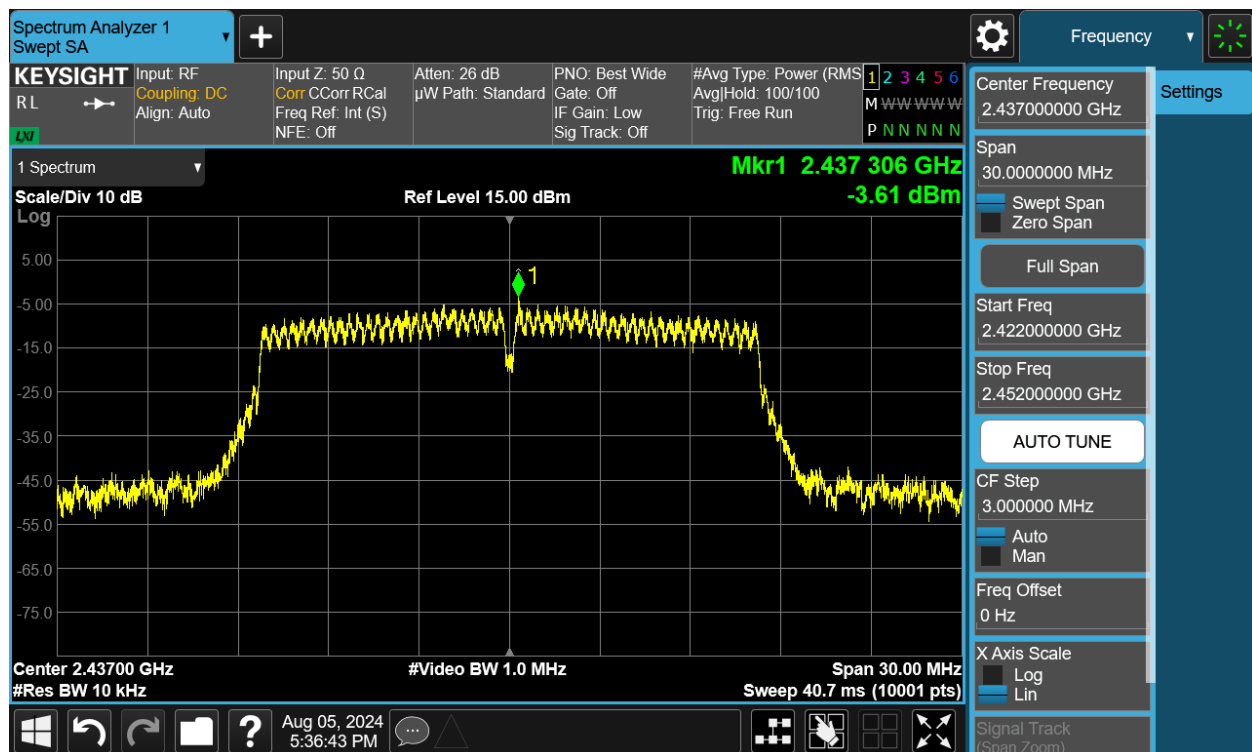


Plot 7-63. Power Spectral Density Plot SISO ANT2 (802.11b – Ch. 11)

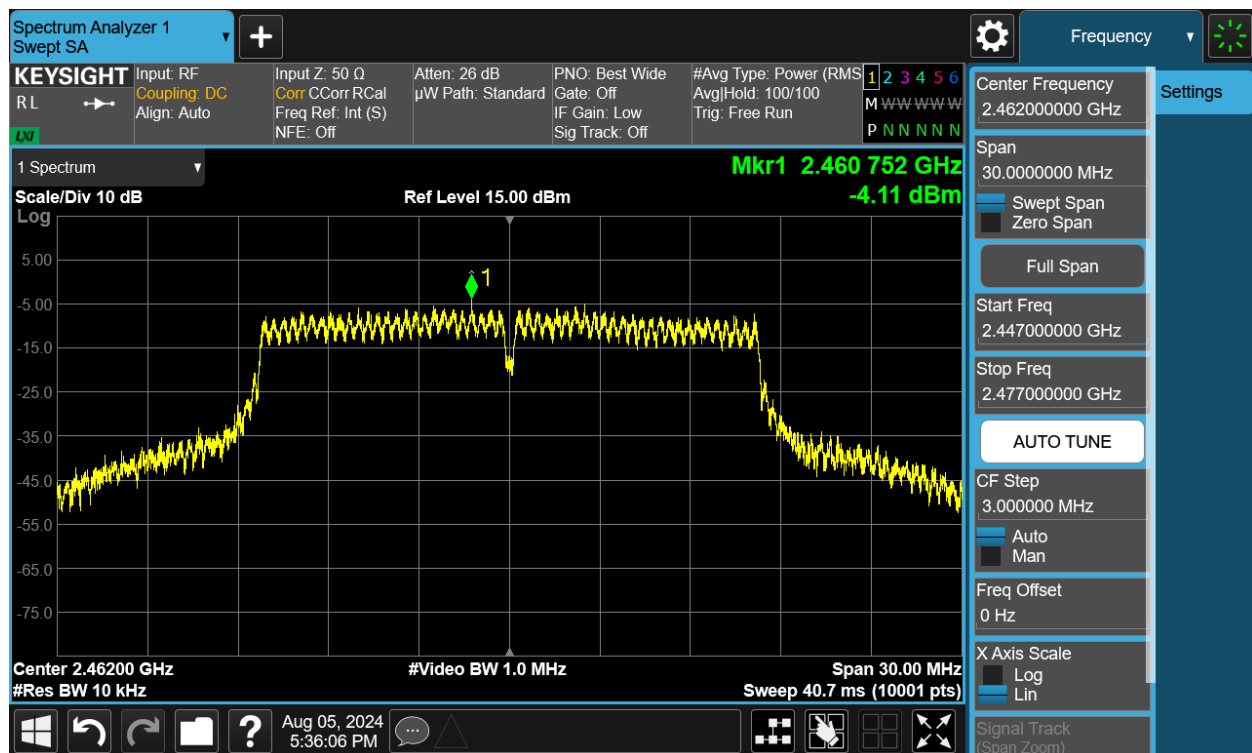


Plot 7-64. Power Spectral Density Plot SISO ANT2 (802.11g – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 59 of 150

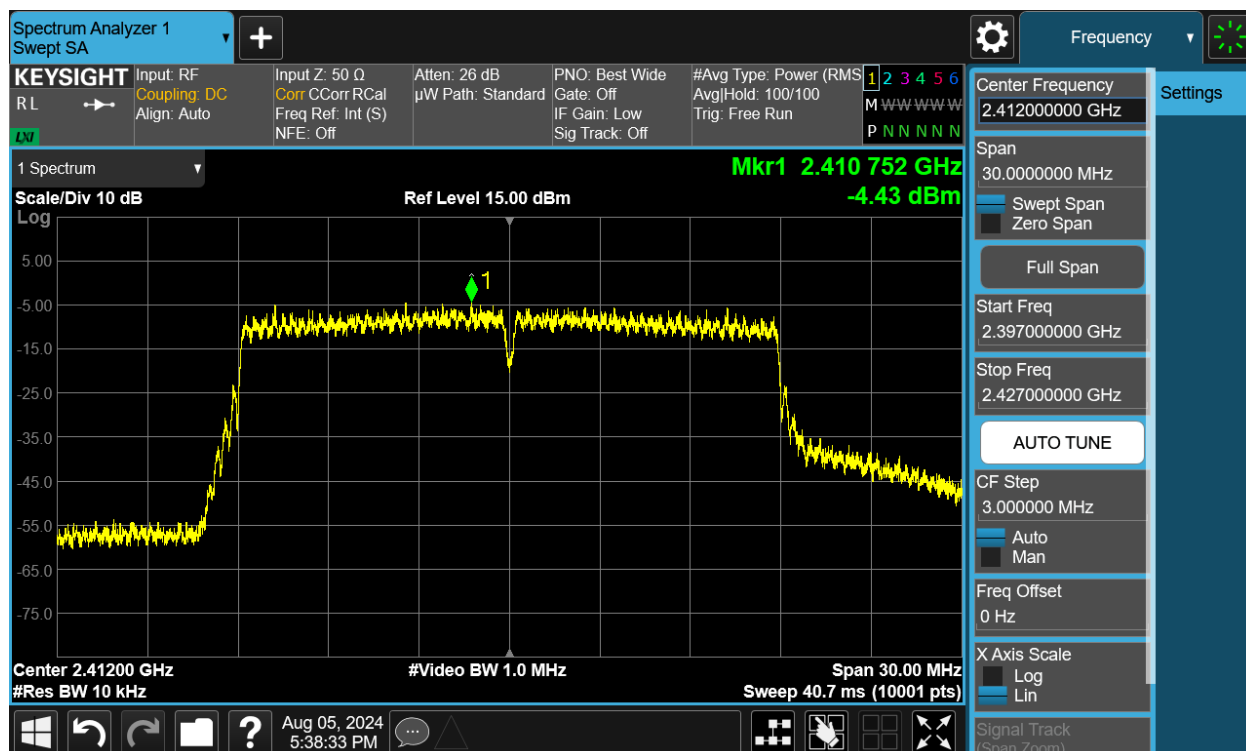


Plot 7-65. Power Spectral Density Plot SISO ANT2 (802.11g – Ch. 6)

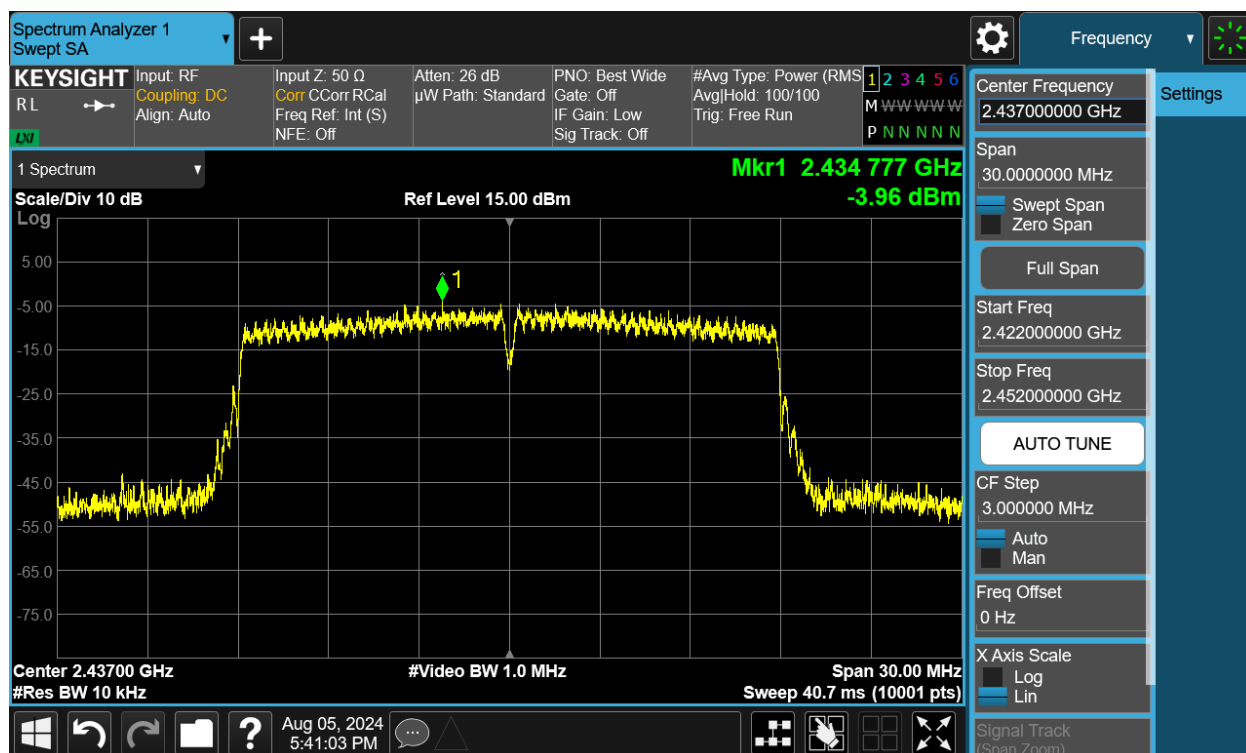


Plot 7-66. Power Spectral Density Plot SISO ANT2 (802.11g – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03-A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 60 of 150

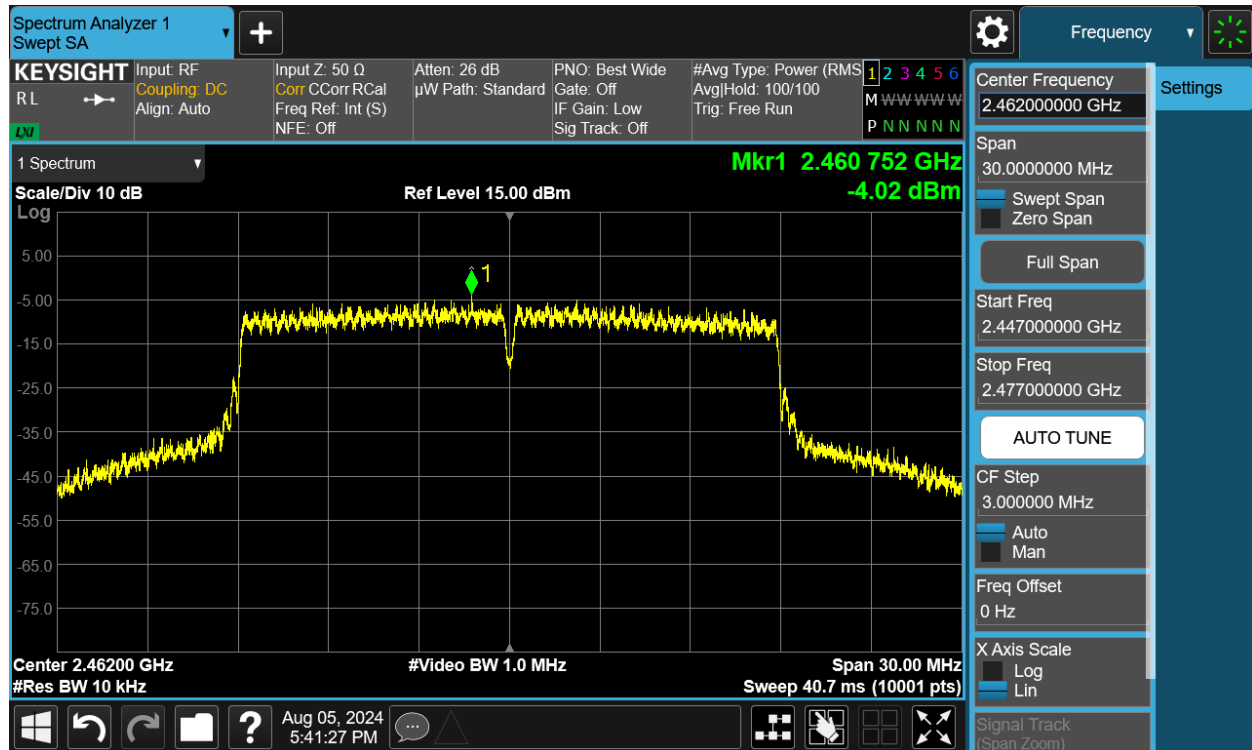


Plot 7-67. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 1)

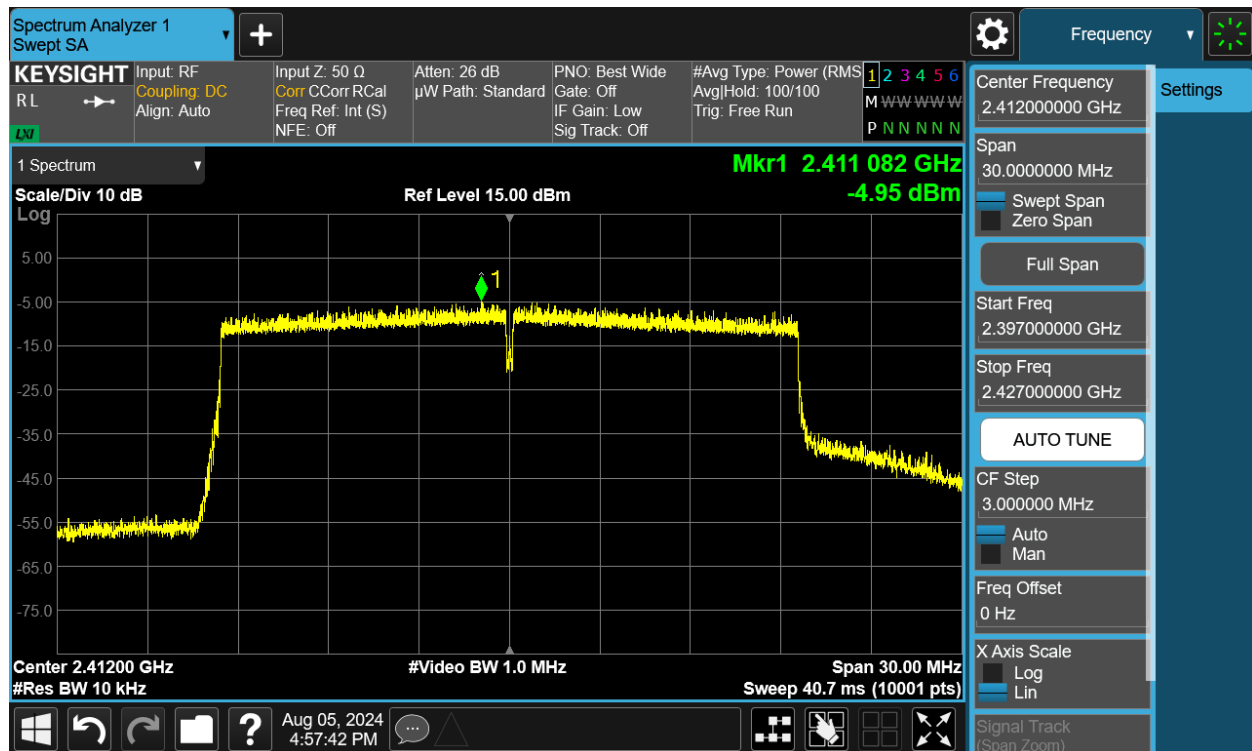


Plot 7-68. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 61 of 150



Plot 7-69. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 11)



Plot 7-70. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 62 of 150



Plot 7-71. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) – Ch. 6)



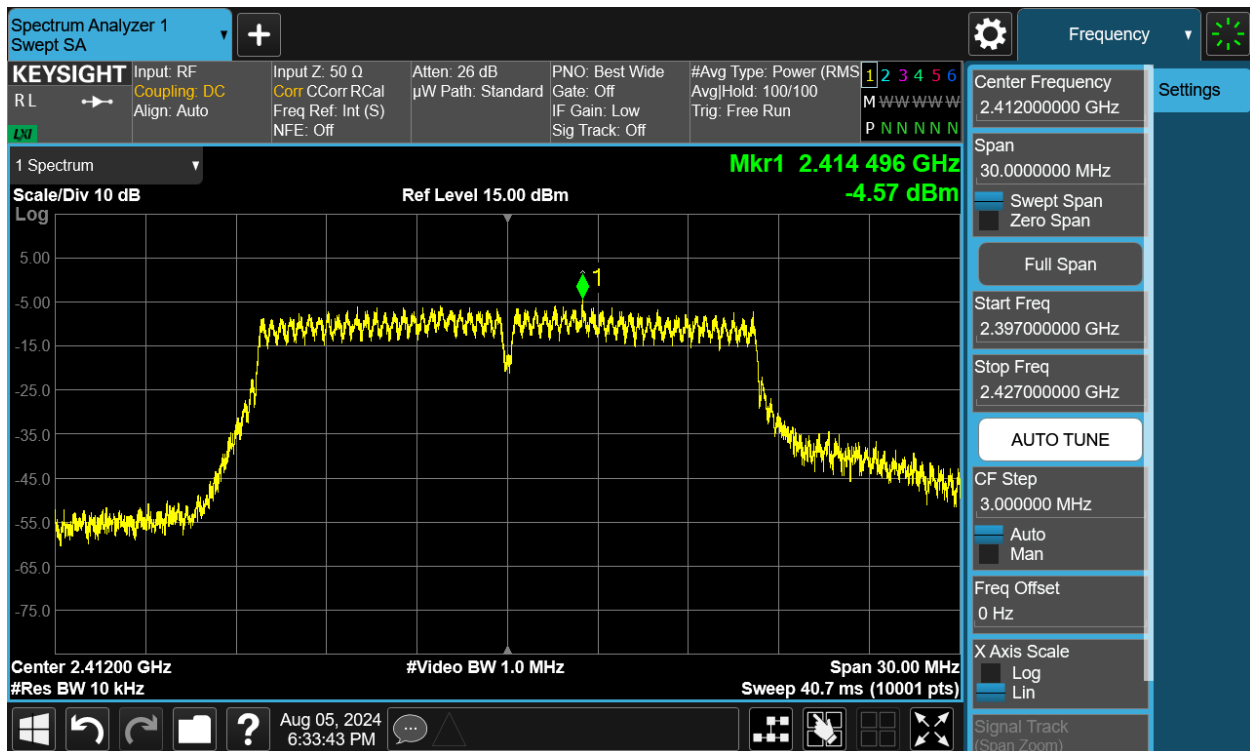
Plot 7-72. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03-A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 63 of 150

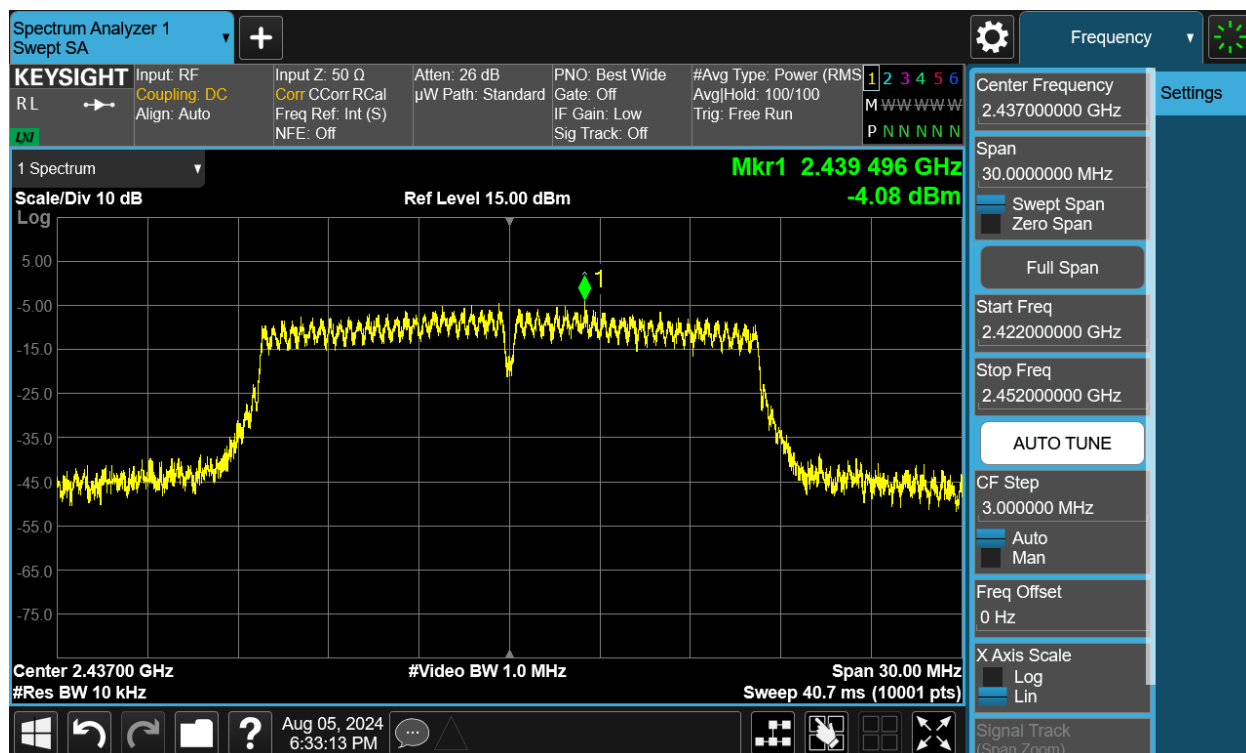
7.4.3 MIMO Power Spectral Density Measurements



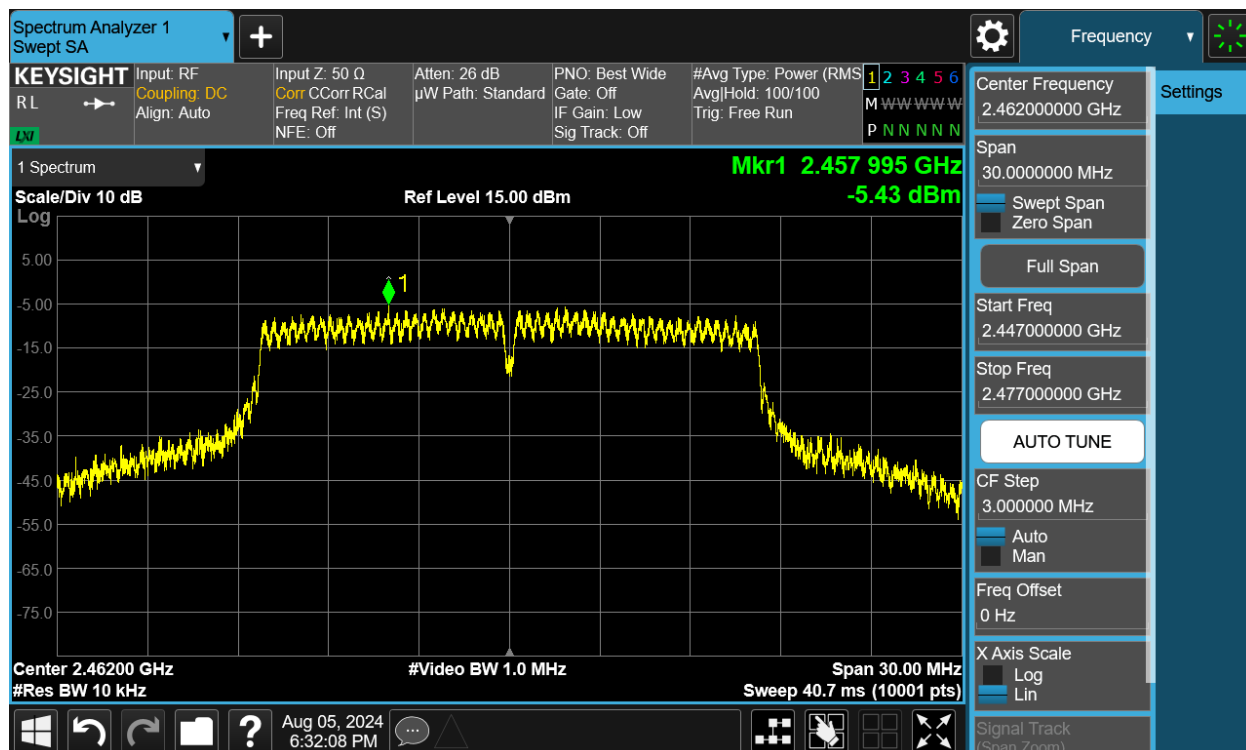
FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 64 of 150



FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 65 of 150

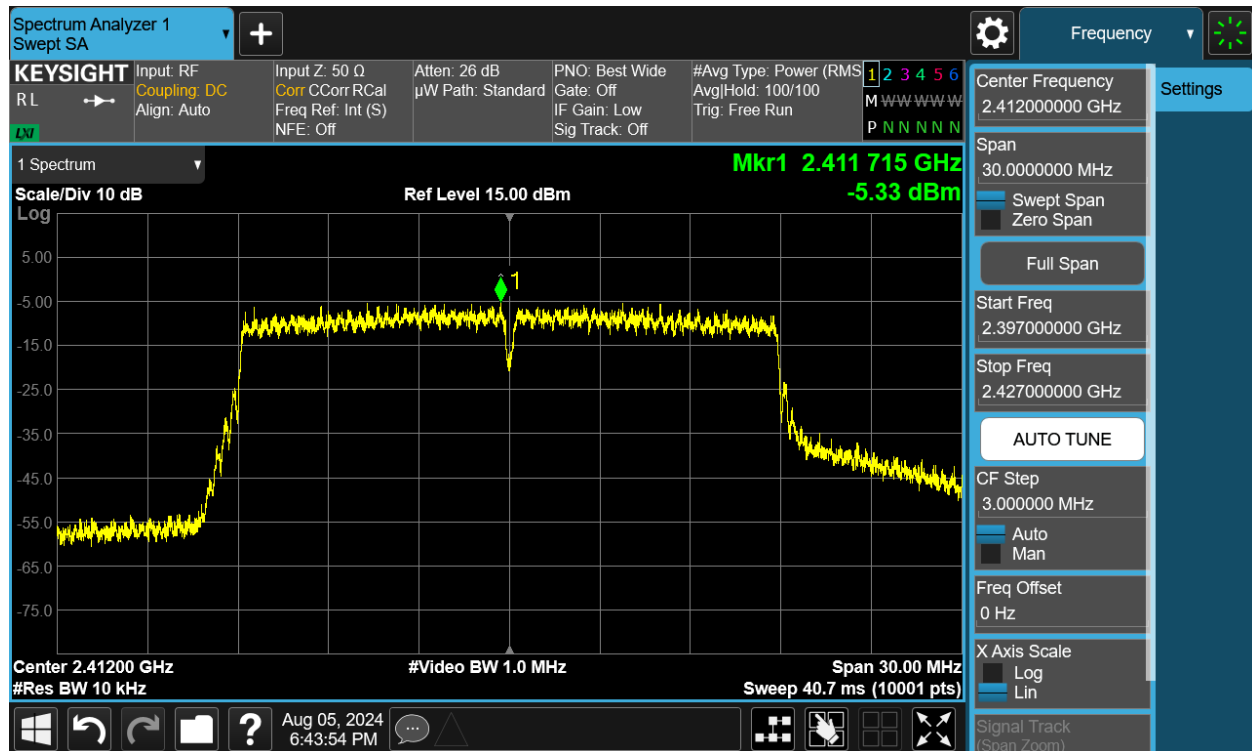


Plot 7-77. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 6)

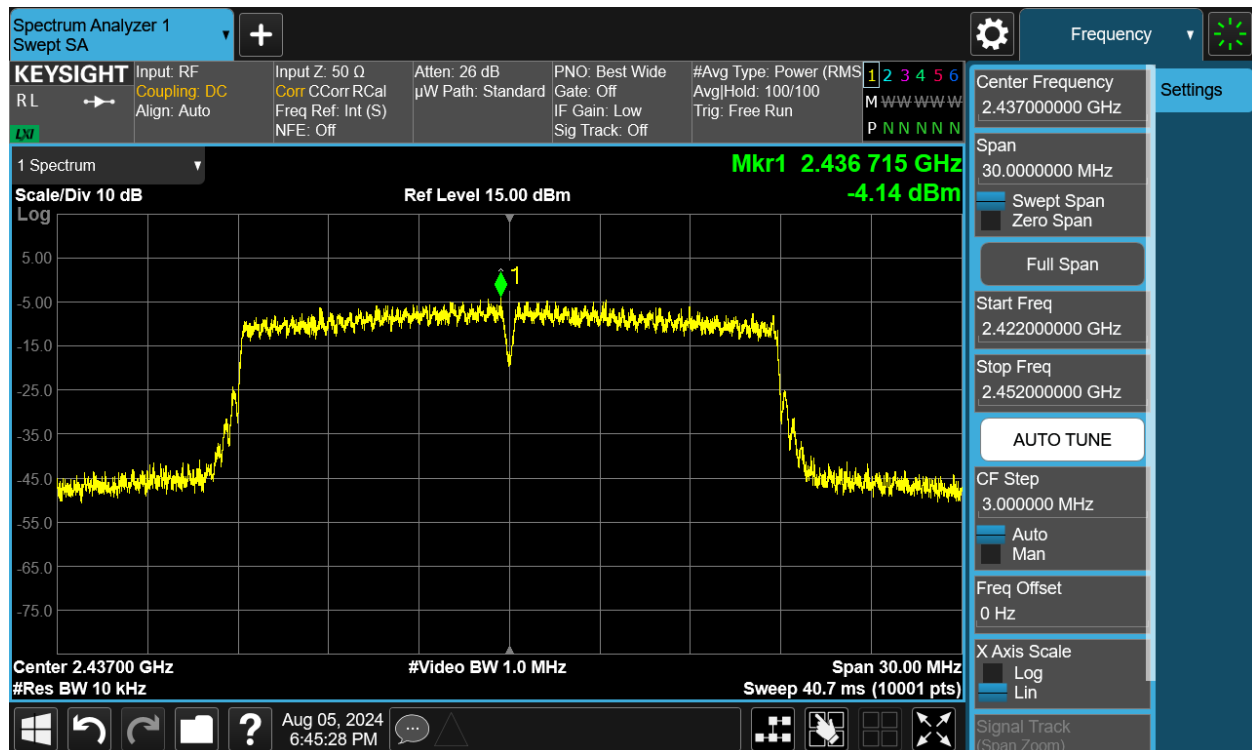


Plot 7-78. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 66 of 150

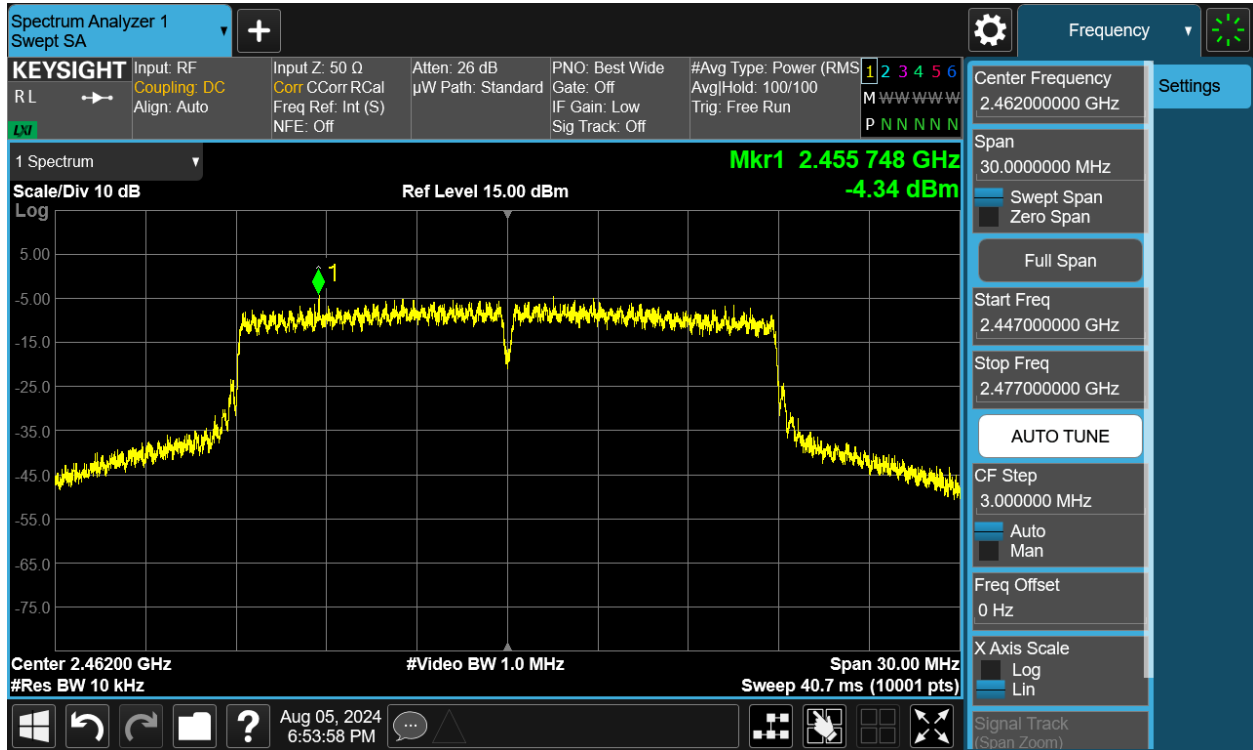


Plot 7-79. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 1)

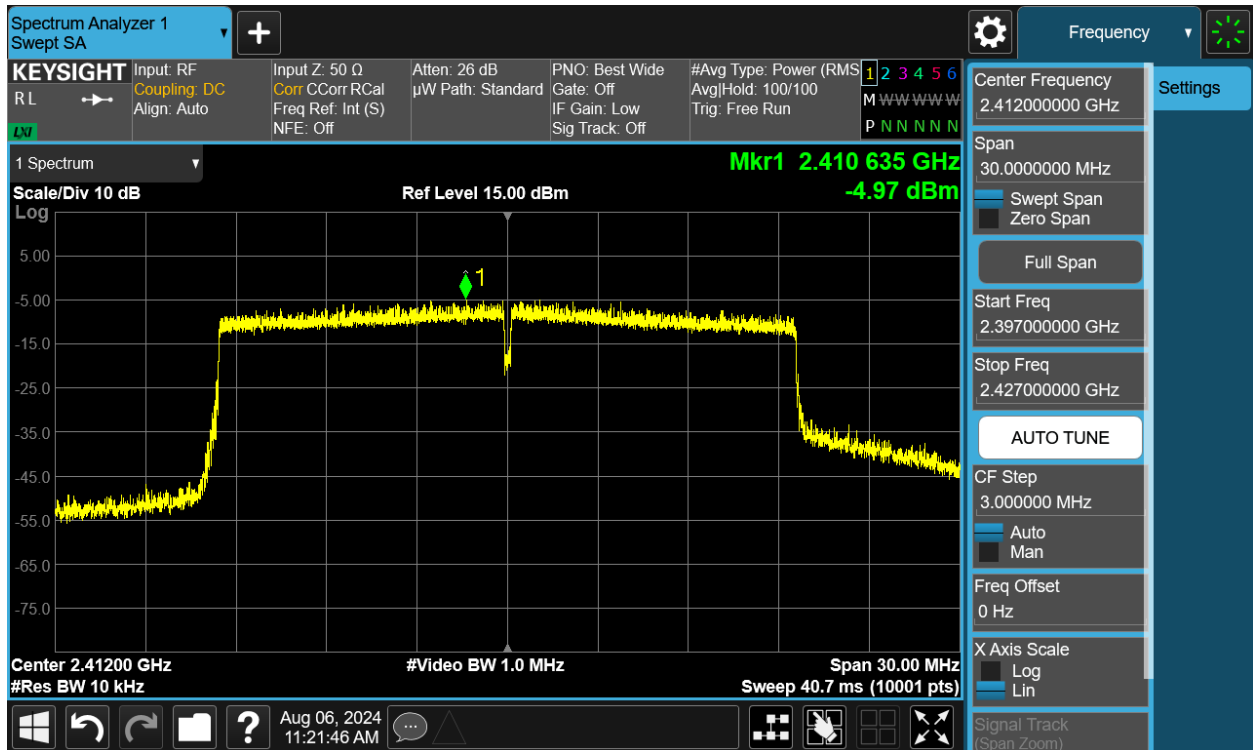


Plot 7-80. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 67 of 150

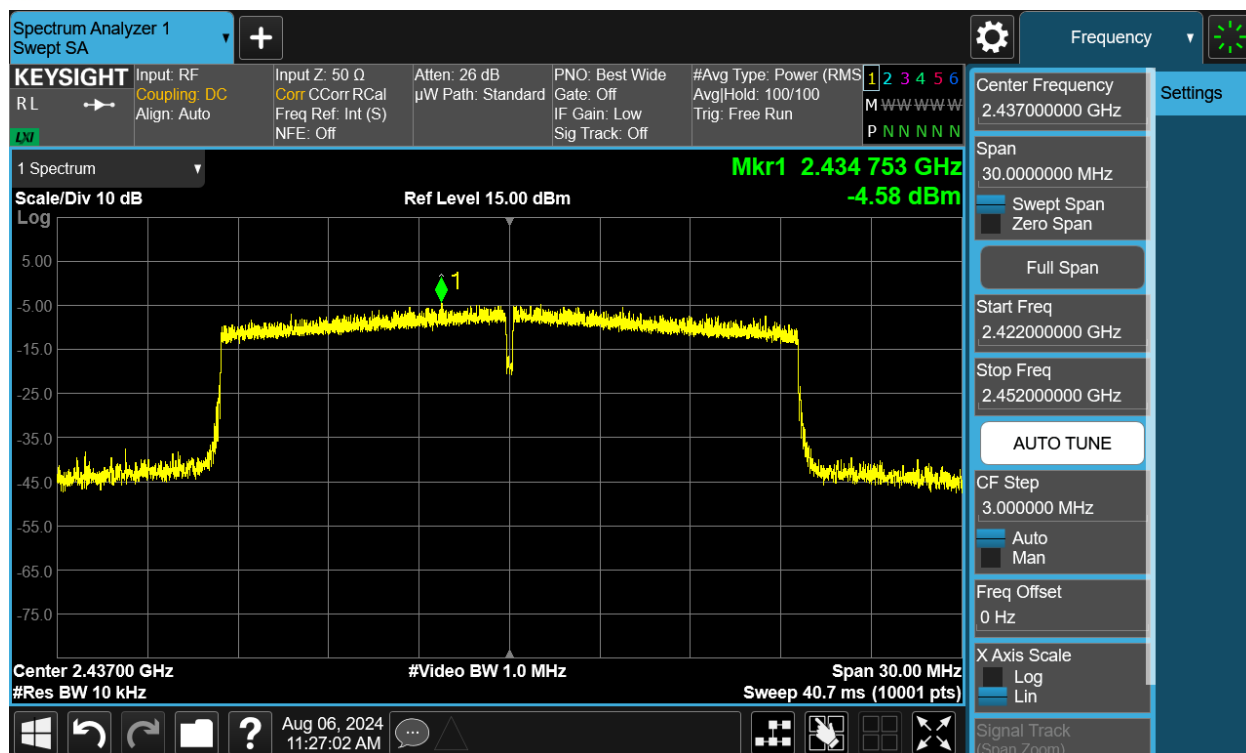


Plot 7-81. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 11)

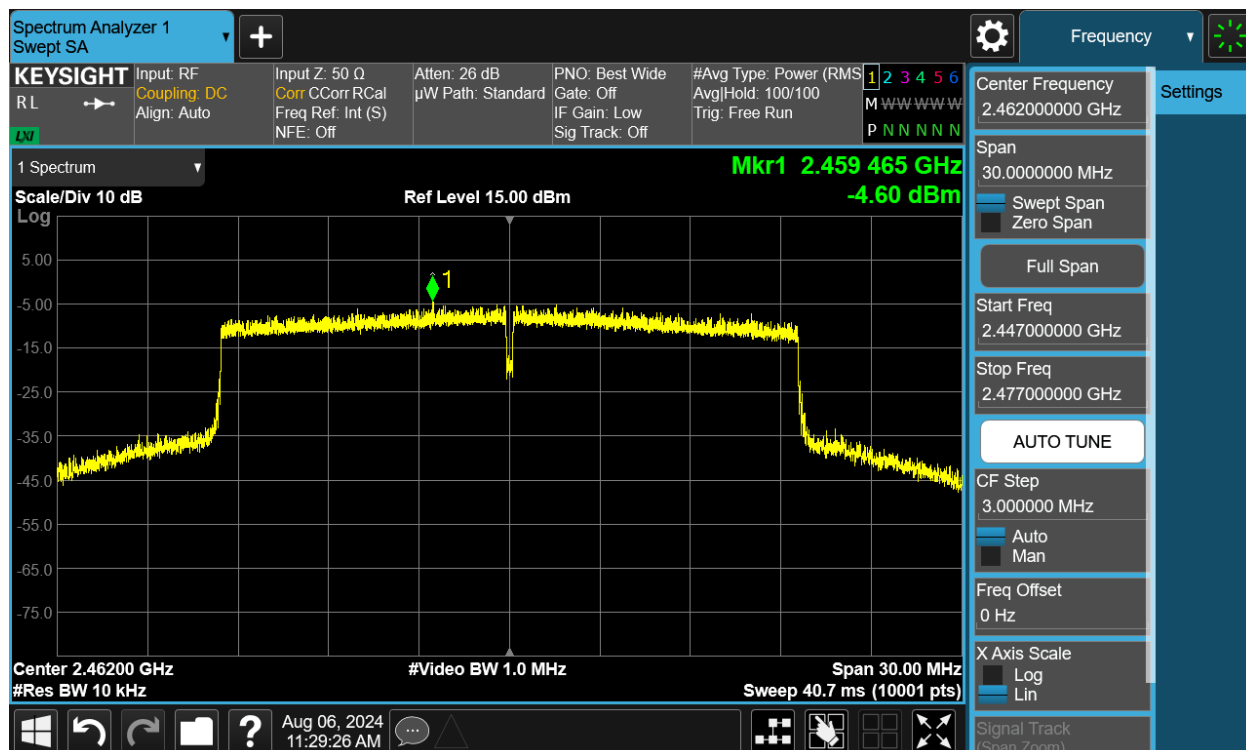


Plot 7-82. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 68 of 150



Plot 7-83. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) – Ch. 6)



Plot 7-84. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 69 of 150



Plot 7-85. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 1)

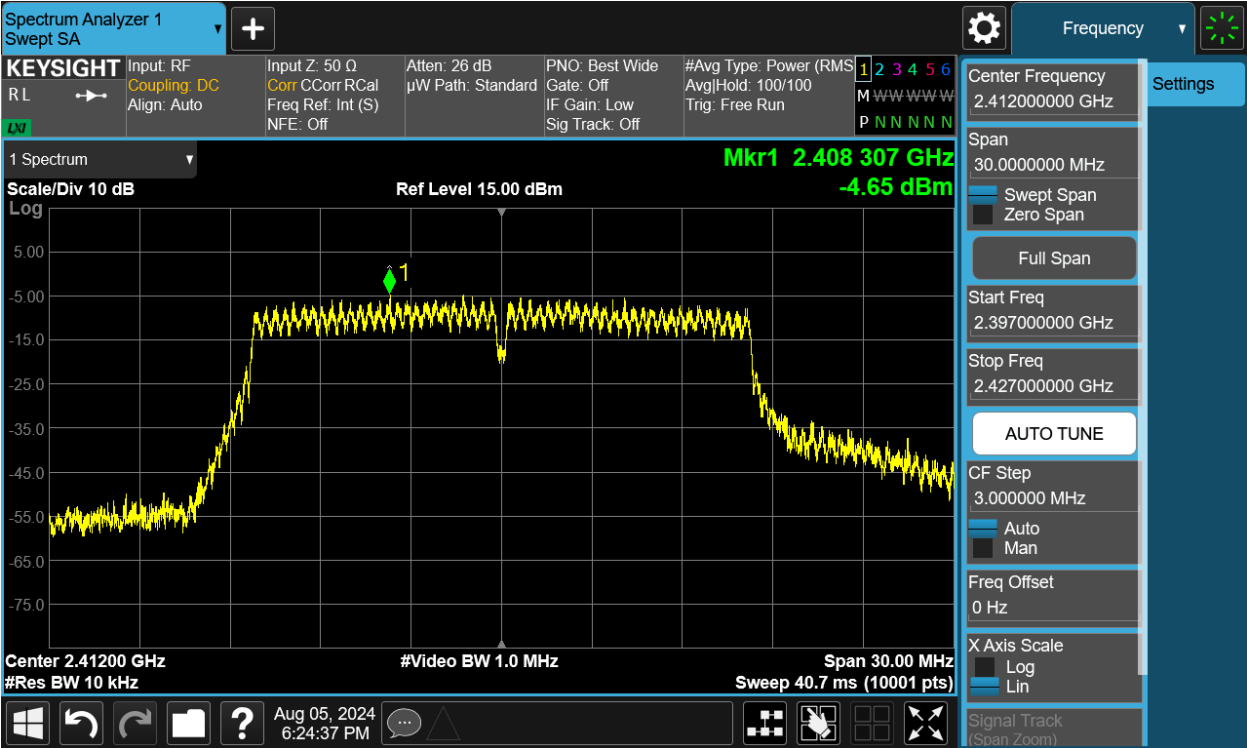


Plot 7-86. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 70 of 150



Plot 7-87. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 11)



Plot 7-88. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 71 of 150