

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5T	Antenna 1b	Summed				
	6115	33	SDM	AVG	-0.71	-0.92	2.20	2.49	4.69	14.00	-9.31
	6255	61	SDM	AVG	-0.75	-0.84	2.22	2.49	4.71	14.00	-9.29
	6415	93	SDM	AVG	-1.00	-1.26	1.88	2.49	4.37	14.00	-9.63
	6535	117	SDM	AVG	-1.26	-1.01	1.88	2.25	4.13	14.00	-9.87
	6695	149	SDM	AVG	-1.02	-1.30	1.85	2.25	4.10	14.00	-9.90
	6855	181	SDM	AVG	-1.25	-1.09	1.84	2.25	4.09	14.00	-9.91

Table 7-67. SDM Diversity 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5T	Antenna 1b	Summed				
	6125	35	SDM	AVG	2.15	2.26	5.22	2.49	7.71	14.00	-6.29
	6245	59	SDM	AVG	2.40	2.34	5.38	2.49	7.87	14.00	-6.13
	6405	91	SDM	AVG	2.20	1.97	5.09	2.49	7.58	14.00	-6.42
	6565	123	SDM	AVG	1.76	1.79	4.78	2.25	7.03	14.00	-6.97
	6725	155	SDM	AVG	1.53	1.99	4.78	2.25	7.03	14.00	-6.97
	6845	179	SDM	AVG	1.89	1.82	4.86	2.25	7.11	14.00	-6.89

Table 7-68. SDM Diversity 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5T	Antenna 1b	Summed				
	6145	39	SDM	AVG	5.14	5.46	8.31	2.49	10.80	14.00	-3.20
	6225	55	SDM	AVG	5.26	5.42	8.35	2.49	10.84	14.00	-3.16
	6385	87	SDM	AVG	5.04	4.86	7.96	2.49	10.45	14.00	-3.55
	6625	135	SDM	AVG	4.67	4.91	7.80	2.25	10.05	14.00	-3.95
	6705	151	SDM	AVG	4.70	4.71	7.71	2.25	9.96	14.00	-4.04
	6785	167	SDM	AVG	4.80	4.94	7.88	2.25	10.13	14.00	-3.87

Table 7-69. SDM Diversity 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5T	Antenna 1b	Summed				
	6185	47	SDM	AVG	7.76	7.83	10.80	2.49	13.29	14.00	-0.71
	6345	79	SDM	AVG	7.46	7.35	10.42	2.49	12.91	14.00	-1.09
	6665	143	SDM	AVG	7.17	7.31	10.25	2.25	12.50	14.00	-1.50

Table 7-70. SDM Diversity 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

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**Notes:**

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 5T and Antenna 3b were first measured separately during SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3, the directional gain is calculated using the following formula, where  $G_{ANT}$  is the gain of the  $n^{th}$  antenna.

$$\text{Directional gain} = G_{ANT} + \text{Array Gain dBi}$$

Per ANSI C63.10-2020 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where  $G_N$  is the gain of the  $n^{th}$  antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}] \text{ dBi}$$

**Sample CDD/SDM Calculation:**

At 5955MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 2.66 dBm for Antenna 5T and 2.96 dBm for Antenna 3b.

$$\text{Antenna 5T} + \text{Antenna 3b} = \text{CDD/SDM}$$

$$(2.66 \text{ dBm} + 2.96 \text{ dBm}) = (1.845 \text{ mW} + 1.976 \text{ mW}) = 3.821 \text{ mW} = 5.82 \text{ dBm}$$

**Sample e.i.r.p. Calculation:**

At 5955MHz in 802.11ax (20MHz BW) mode, the average SDM conducted power was calculated to be 5.82 dBm with directional gain of 2.76 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$5.82 \text{ dBm} + 2.42 \text{ dBi} = 8.24 \text{ dBm}$$

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<b>Test Report S/N:</b> 1C2405200018-24-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 10/1/2024	<b>EUT Type:</b> Tablet Device	Page 73 of 317

## 7.4 Maximum Power Spectral Density

§15.407(a)(7), 15.407(a)(8), 15.407(a)(9)

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

***In the 5.925 – 7.125GHz band, the maximum permissible power spectral density must not exceed -1dBm e.i.r.p. in any 1-megahertz band for Low Power Indoor operating modes.***

***In the 5.925 – 6.425GHz & 6.525 – 6875GHz bands, the maximum permissible power spectral density must not exceed 17dBm e.i.r.p. in any 1-megahertz band for Standard Power operating modes.***

***In the 5.925 – 6.425GHz & 6.525 – 6875GHz bands, the maximum permissible power spectral density must not exceed -5dBm e.i.r.p. in any 1-megahertz band for Very Low Power operating modes.***

### Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10-2020 – Section 14.5.2.2 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

### Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

### 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

1. All data rates has been investigated and only the worst case data rate per group is reported.
2. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel psd plots have been reported.

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V 10.50.40 12/15/2021

## 7.4.1 Antenna 5T Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	-5.96	3.70	-2.26	-1	-1.26
	6175	45	a	54	-5.61	3.70	-1.91	-1	-0.91
	6415	93	a	54	-5.55	3.70	-1.85	-1	-0.85
	5955	1	ax (20MHz)	135/143.4 (MCS11)	-5.89	3.70	-2.19	-1	-1.19
	6175	45	ax (20MHz)	135/143.4 (MCS11)	-5.59	3.70	-1.89	-1	-0.89
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-6.21	3.70	-2.51	-1	-1.51
	5965	3	ax (40MHz)	271/286.8 (MCS11)	-6.03	3.70	-2.33	-1	-1.33
	6165	43	ax (40MHz)	271/286.8 (MCS11)	-5.49	3.70	-1.79	-1	-0.79
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-5.75	3.70	-2.05	-1	-1.05
	5985	7	ax (80MHz)	567/600.5 (MCS11)	-6.21	3.70	-2.51	-1	-1.51
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-5.51	3.70	-1.81	-1	-0.81
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-5.49	3.70	-1.79	-1	-0.79
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-5.80	3.70	-2.10	-1	-1.10
6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-5.45	3.70	-1.75	-1	-0.75	
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-5.56	3.70	-1.86	-1	-0.86	
Band 6	6435	97	a	54	-4.96	3.10	-1.86	-1	-0.86
	6475	105	a	54	-4.97	3.10	-1.87	-1	-0.87
	6515	113	a	54	-4.80	3.10	-1.70	-1	-0.70
	6435	97	ax (20MHz)	135/143.4 (MCS11)	-5.47	3.10	-2.37	-1	-1.37
	6475	105	ax (20MHz)	135/143.4 (MCS11)	-5.81	3.10	-2.71	-1	-1.71
	6515	113	ax (20MHz)	135/143.4 (MCS11)	-5.19	3.10	-2.09	-1	-1.09
	6445	99	ax (40MHz)	271/286.8 (MCS11)	-4.98	3.10	-1.88	-1	-0.88
	6485	107	ax (40MHz)	271/286.8 (MCS11)	-5.50	3.10	-2.40	-1	-1.40
	6525	115	ax (40MHz)	271/286.8 (MCS11)	-5.30	3.10	-2.20	-1	-1.20
	6465	103	ax (80MHz)	567/600.5 (MCS11)	-4.95	3.10	-1.85	-1	-0.85
	6505	111	ax (160MHz)	1020.8/1201 (MCS11)	-4.95	3.10	-1.85	-1	-0.85
Band 7	6535	117	a	54	-5.80	3.50	-2.30	-1	-1.30
	6695	149	a	54	-6.29	3.50	-2.79	-1	-1.79
	6875	185	a	54	-5.05	3.50	-1.55	-1	-0.55
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-5.58	3.50	-2.08	-1	-1.08
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-5.17	3.50	-1.67	-1	-0.67
	6875	185	ax (20MHz)	135/143.4 (MCS11)	-5.62	3.50	-2.12	-1	-1.12
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-5.56	3.50	-2.06	-1	-1.06
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-5.43	3.50	-1.93	-1	-0.93
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-5.33	3.50	-1.83	-1	-0.83
	6545	119	ax (80MHz)	567/600.5 (MCS11)	-5.28	3.50	-1.78	-1	-0.78
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-5.08	3.50	-1.58	-1	-0.58
	6865	183	ax (80MHz)	567/600.5 (MCS11)	-5.49	3.50	-1.99	-1	-0.99
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-6.26	3.50	-2.76	-1	-1.76
6825	175	ax (160MHz)	1020.8/1201 (MCS11)	-5.52	3.50	-2.02	-1	-1.02	
Band 8	6895	189	a	54	-6.00	3.30	-2.70	-1	-1.70
	6995	209	a	54	-5.81	3.30	-2.51	-1	-1.51
	7115	233	a	54	-4.85	3.30	-1.55	-1	-0.55
	6895	189	ax (20MHz)	135/143.4 (MCS11)	-5.48	3.30	-2.18	-1	-1.18
	6995	209	ax (20MHz)	135/143.4 (MCS11)	-5.38	3.30	-2.08	-1	-1.08
	7115	233	ax (20MHz)	135/143.4 (MCS11)	-5.51	3.30	-2.21	-1	-1.21
	6885	187	ax (40MHz)	271/286.8 (MCS11)	-5.40	3.30	-2.10	-1	-1.10
	7005	211	ax (40MHz)	271/286.8 (MCS11)	-5.23	3.30	-1.93	-1	-0.93
	7085	227	ax (40MHz)	271/286.8 (MCS11)	-5.54	3.30	-2.24	-1	-1.24
	6945	199	ax (80MHz)	567/600.5 (MCS11)	-5.50	3.30	-2.20	-1	-1.20
	7025	215	ax (80MHz)	567/600.5 (MCS11)	-4.98	3.30	-1.68	-1	-0.68
	6985	207	ax (160MHz)	1020.8/1201 (MCS11)	-4.96	3.30	-1.66	-1	-0.66

**Table 7-71. Power Spectral Density Measurements Antenna 5T LPI**

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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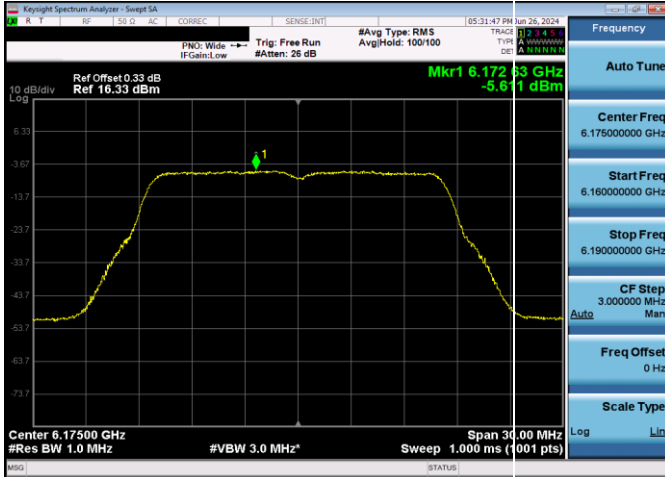
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	7.57	3.70	11.27	17	-5.73
	6175	45	a	54	7.45	3.70	11.15	17	-5.85
	6415	93	a	54	7.52	3.70	11.22	17	-5.78
	5955	1	ax (20MHz)	135/143.4 (MCS11)	6.70	3.70	10.40	17	-6.60
	6175	45	ax (20MHz)	135/143.4 (MCS11)	6.79	3.70	10.49	17	-6.51
	6415	93	ax (20MHz)	135/143.4 (MCS11)	7.09	3.70	10.79	17	-6.22
	5965	3	ax (40MHz)	271/286.8 (MCS11)	3.56	3.70	7.26	17	-9.74
	6165	43	ax (40MHz)	271/286.8 (MCS11)	4.09	3.70	7.79	17	-9.21
	6405	91	ax (40MHz)	271/286.8 (MCS11)	4.27	3.70	7.97	17	-9.03
	5985	7	ax (80MHz)	567/600.5 (MCS11)	0.93	3.70	4.63	17	-12.37
	6145	39	ax (80MHz)	567/600.5 (MCS11)	1.08	3.70	4.78	17	-12.22
	6385	87	ax (80MHz)	567/600.5 (MCS11)	1.69	3.70	5.39	17	-11.61
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-0.90	3.70	2.81	17	-14.20
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-1.01	3.70	2.69	17	-14.31
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-0.98	3.70	2.72	17	-14.28	
Band 7	6535	117	a	54	7.48	3.50	10.98	17	-6.02
	6695	149	a	54	7.88	3.50	11.38	17	-5.62
	6855	181	a	54	8.25	3.50	11.75	17	-5.25
	6535	117	ax (20MHz)	135/143.4 (MCS11)	7.21	3.50	10.71	17	-6.29
	6695	149	ax (20MHz)	135/143.4 (MCS11)	7.13	3.50	10.63	17	-6.37
	6855	181	ax (20MHz)	135/143.4 (MCS11)	7.37	3.50	10.87	17	-6.13
	6565	123	ax (40MHz)	271/286.8 (MCS11)	4.31	3.50	7.81	17	-9.19
	6725	155	ax (40MHz)	271/286.8 (MCS11)	4.44	3.50	7.94	17	-9.06
	6845	179	ax (40MHz)	271/286.8 (MCS11)	4.82	3.50	8.32	17	-8.68
	6625	135	ax (80MHz)	567/600.5 (MCS11)	1.61	3.50	5.11	17	-11.89
	6705	151	ax (80MHz)	567/600.5 (MCS11)	1.34	3.50	4.84	17	-12.16
	6785	167	ax (80MHz)	567/600.5 (MCS11)	1.63	3.50	5.13	17	-11.87
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-0.52	3.50	2.98	17	-14.02

**Table 7-72. Power Spectral Density Measurements Antenna 5T SP**

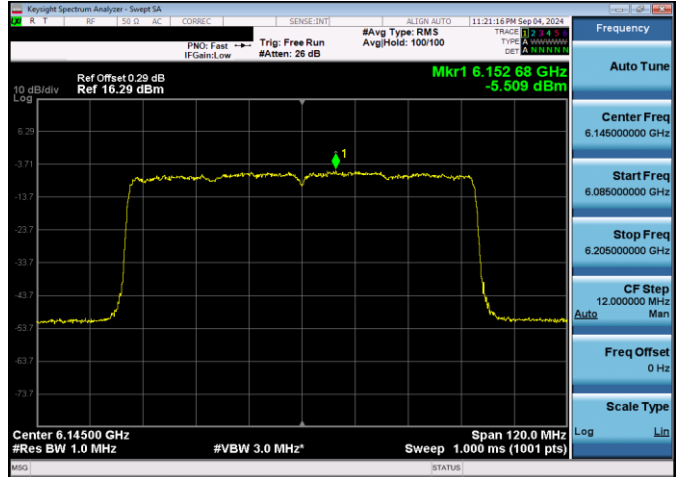
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	54	-9.87	3.70	-6.17	-5	-1.17
	6255	61	a	54	-9.90	3.70	-6.20	-5	-1.20
	6415	93	a	54	-10.16	3.70	-6.46	-5	-1.46
	6115	33	ax (20MHz)	135/143.4 (MCS11)	-10.45	3.70	-6.75	-5	-1.75
	6255	61	ax (20MHz)	135/143.4 (MCS11)	-10.34	3.70	-6.64	-5	-1.64
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-10.46	3.70	-6.76	-5	-1.76
	6125	35	ax (40MHz)	271/286.8 (MCS11)	-9.99	3.70	-6.29	-5	-1.29
	6245	59	ax (40MHz)	271/286.8 (MCS11)	-10.32	3.70	-6.62	-5	-1.62
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-9.99	3.70	-6.29	-5	-1.29
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-10.03	3.70	-6.33	-5	-1.33
	6225	55	ax (80MHz)	567/600.5 (MCS11)	-10.14	3.70	-6.44	-5	-1.44
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-9.68	3.70	-5.98	-5	-0.98
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-9.91	3.70	-6.21	-5	-1.21
	6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-9.74	3.70	-6.04	-5	-1.04
Band 7	6535	117	a	54	-10.14	3.50	-6.64	-5	-1.64
	6695	149	a	54	-10.13	3.50	-6.63	-5	-1.63
	6855	181	a	54	-9.92	3.50	-6.42	-5	-1.42
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-10.61	3.50	-7.11	-5	-2.11
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-10.55	3.50	-7.05	-5	-2.05
	6855	181	ax (20MHz)	135/143.4 (MCS11)	-10.35	3.50	-6.85	-5	-1.85
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-10.58	3.50	-7.08	-5	-2.08
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-9.92	3.50	-6.42	-5	-1.42
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-9.56	3.50	-6.06	-5	-1.06
	6625	135	ax (80MHz)	567/600.5 (MCS11)	-10.16	3.50	-6.66	-5	-1.66
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-9.97	3.50	-6.47	-5	-1.47
	6785	167	ax (80MHz)	567/600.5 (MCS11)	-9.52	3.50	-6.02	-5	-1.02
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-10.09	3.50	-6.59	-5	-1.59

**Table 7-73. Power Spectral Density Measurements Antenna 5T VLP**

FCC ID: BCGA2995			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 76 of 317	



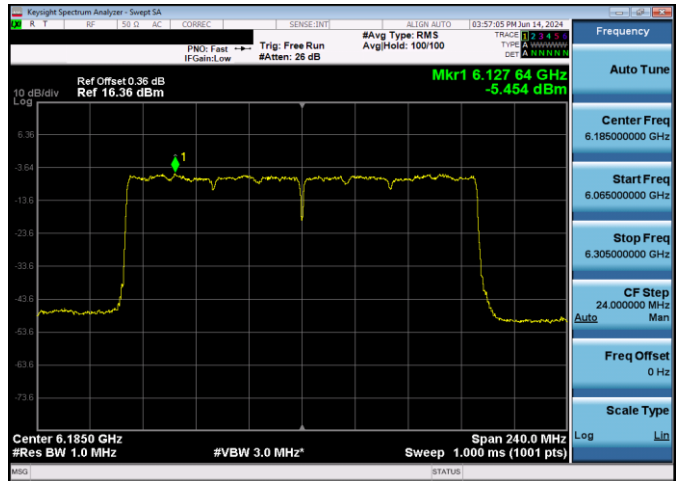
Plot 7-121. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



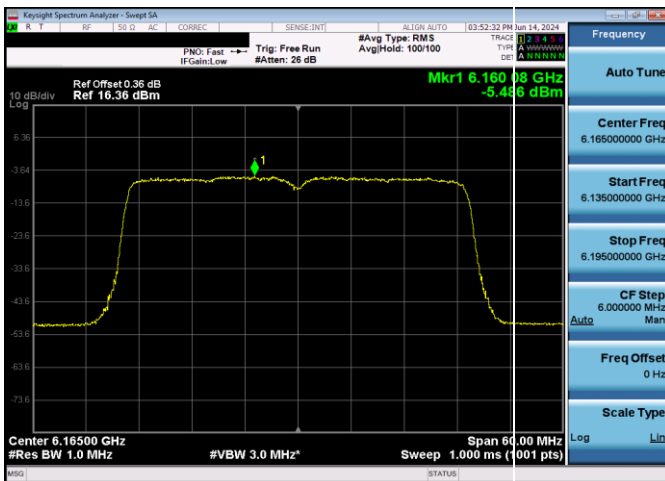
Plot 7-124. Power Spectral Density Plot Antenna 5T LPI (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



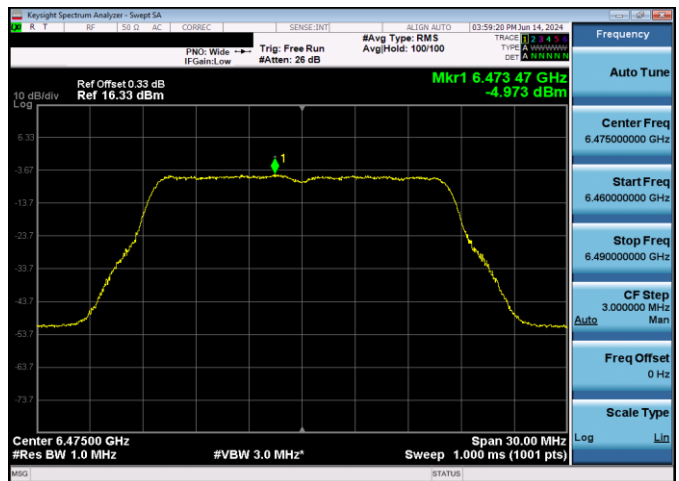
Plot 7-122. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-125. Power Spectral Density Plot Antenna 5T LPI (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

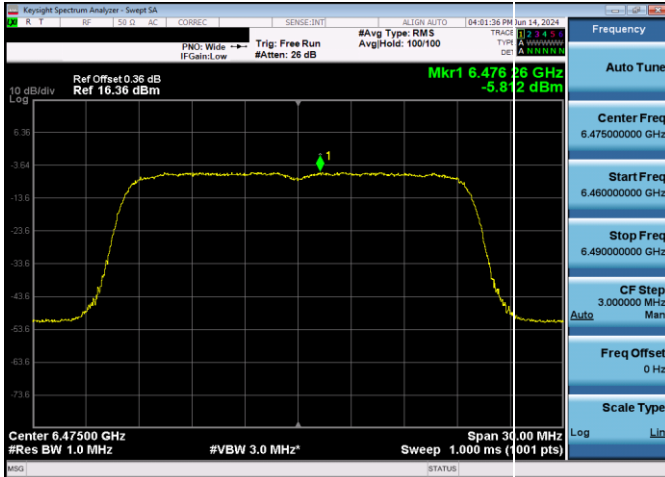


Plot 7-123. Power Spectral Density Plot Antenna 5T LPI (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)

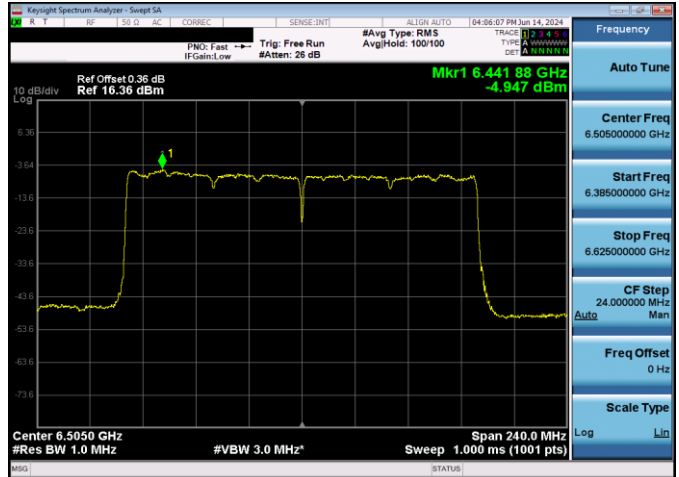


Plot 7-126. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11a (UNII Band 6) – Ch. 105, 54Mbps)

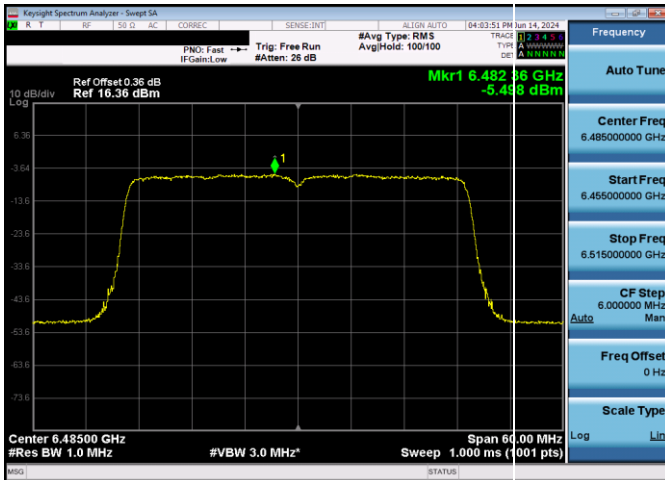
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 77 of 317



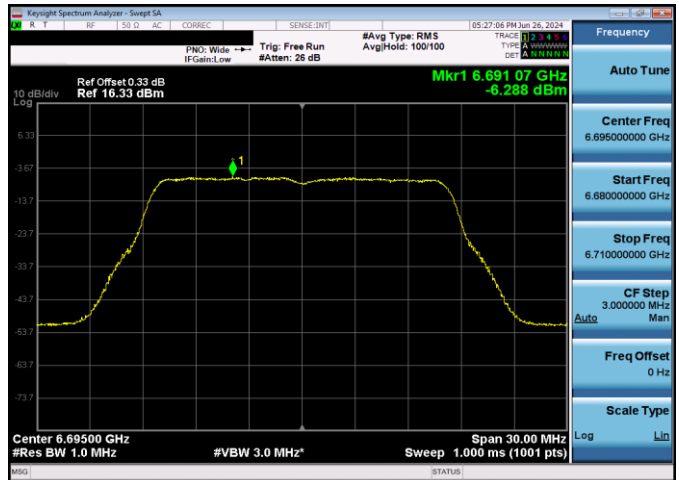
Plot 7-127. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



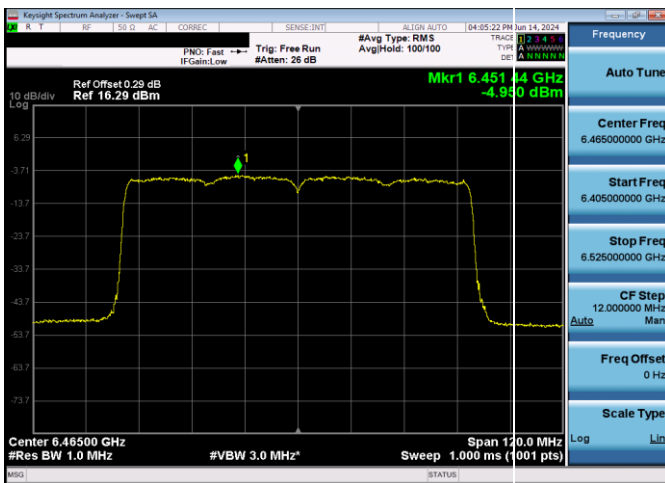
Plot 7-130. Power Spectral Density Plot Antenna 5T LPI (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



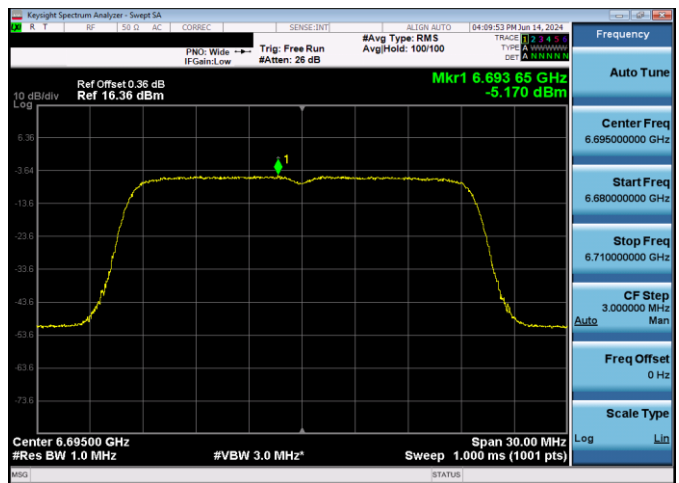
Plot 7-128. Power Spectral Density Plot Antenna 5T LPI (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



Plot 7-131. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

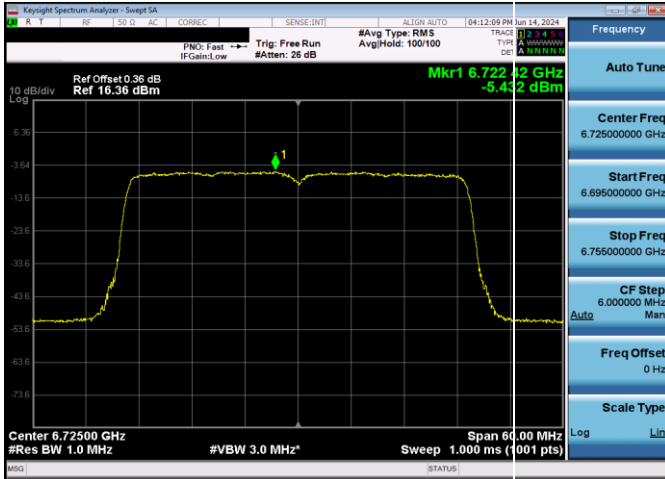


Plot 7-129. Power Spectral Density Plot Antenna 5T LPI (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)

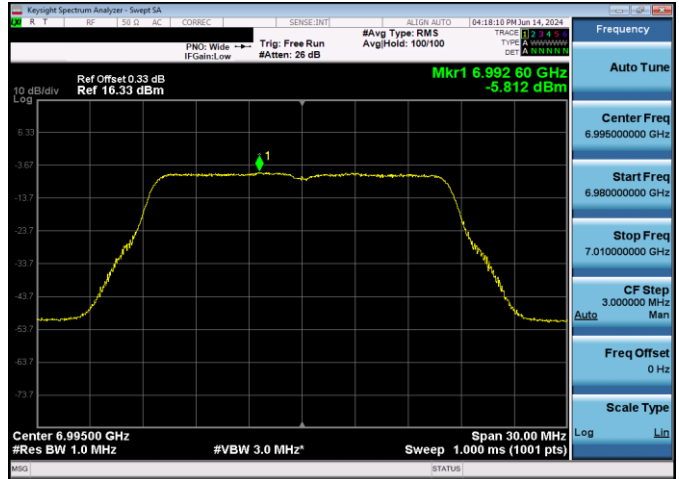


Plot 7-132. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

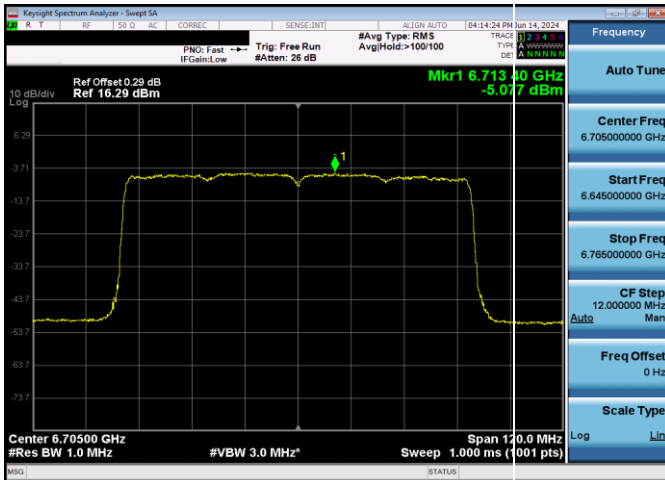
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 78 of 317



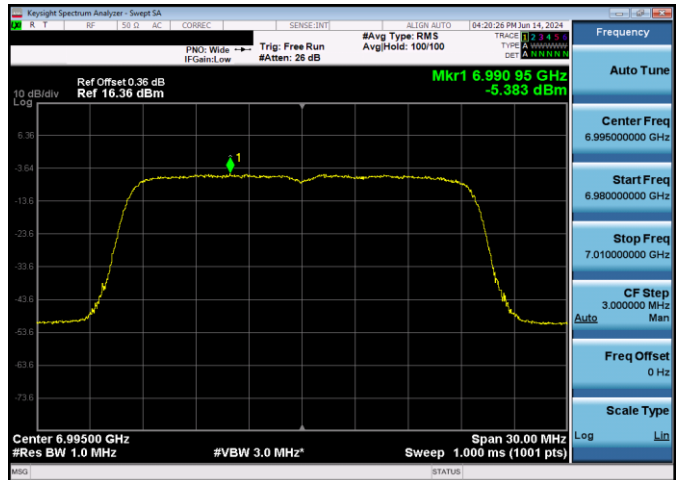
Plot 7-133. Power Spectral Density Plot Antenna 5T LPI (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



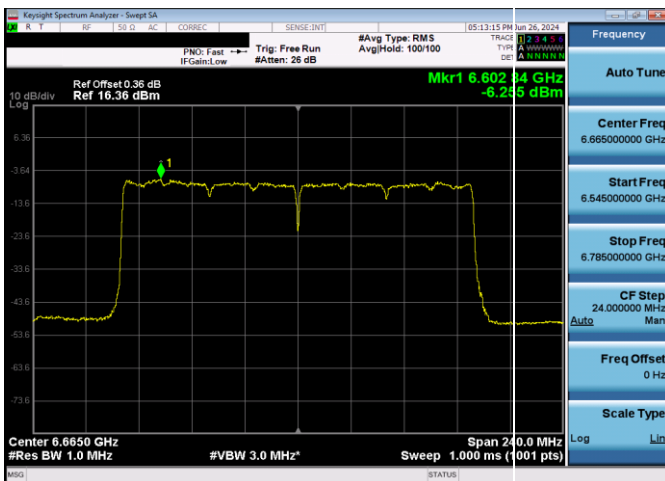
Plot 7-136. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11a (UNII Band 8) – Ch. 209, 54Mbps)



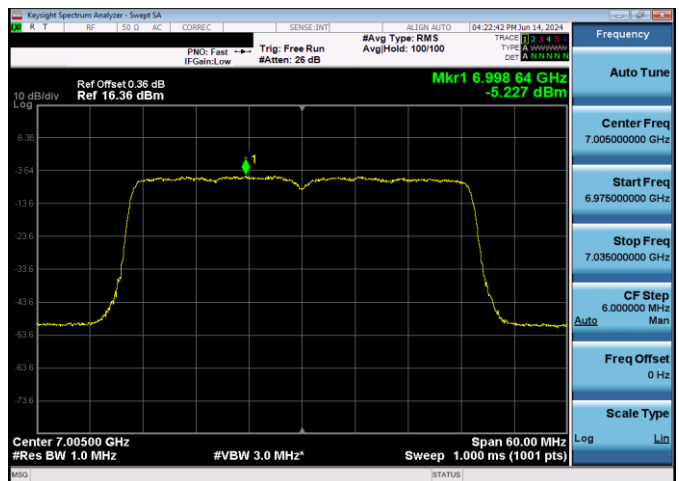
Plot 7-134. Power Spectral Density Plot Antenna 5T LPI (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-137. Power Spectral Density Plot Antenna 5T LPI (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)



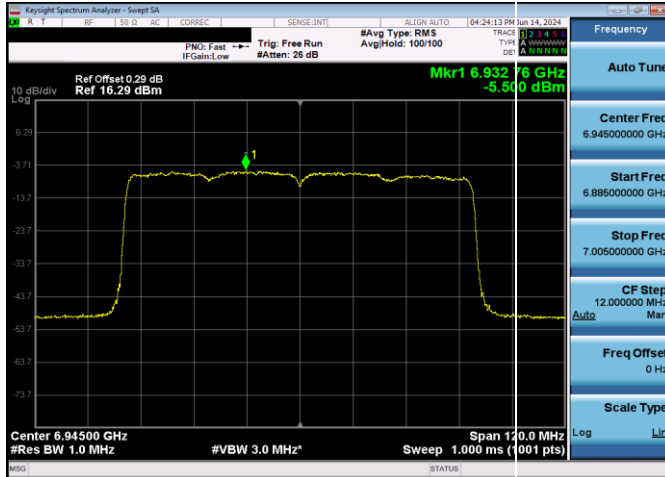
Plot 7-135. Power Spectral Density Plot Antenna 5T LPI (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)



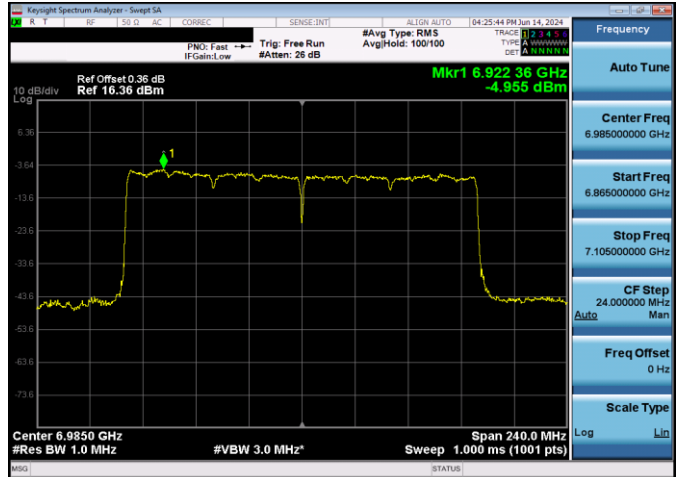
Plot 7-138. Power Spectral Density Plot Antenna 5T LPI (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 79 of 317



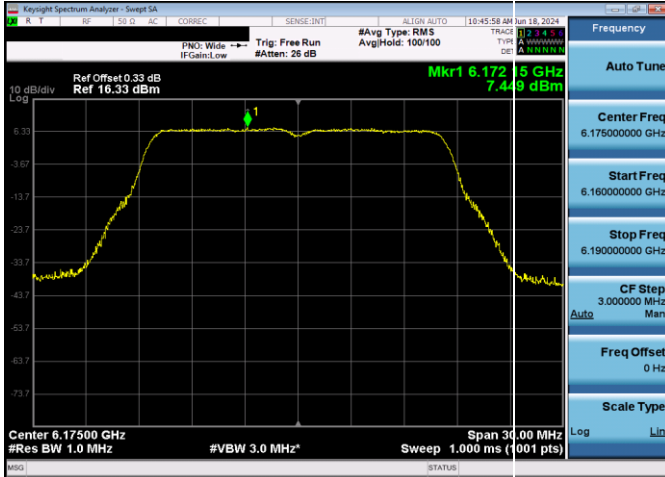


Plot 7-139. Power Spectral Density Plot Antenna 5T LPI (80MHz) 802.11ax (UNII Band 8) – Ch. 199, MCS11)

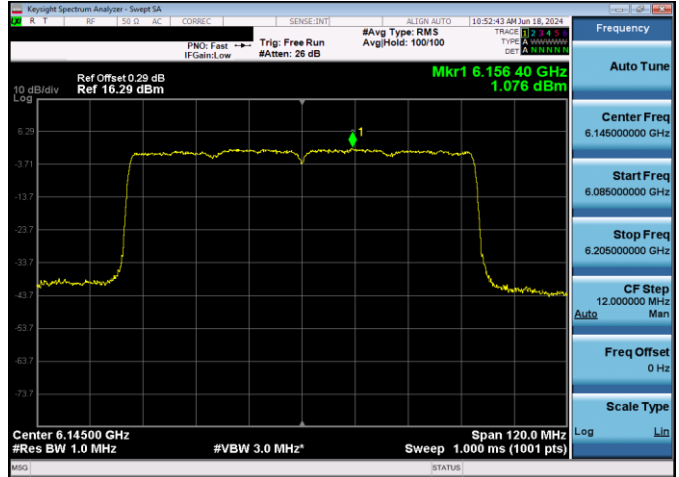


Plot 7-140. Power Spectral Density Plot Antenna 5T LPI (160MHz) 802.11ax (UNII Band 8) – Ch. 207, MCS11)

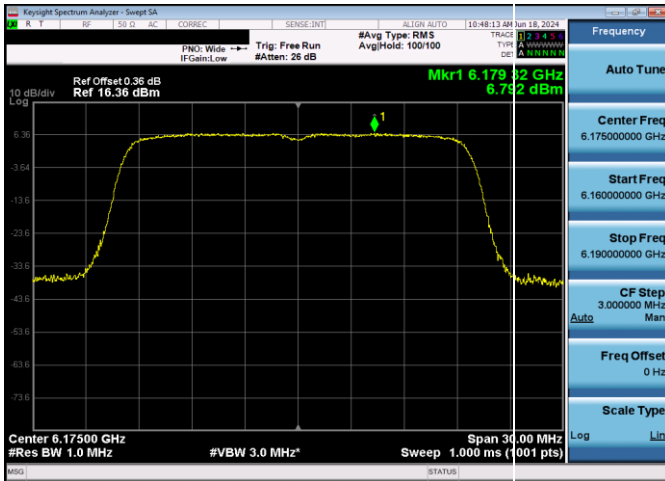
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 80 of 317



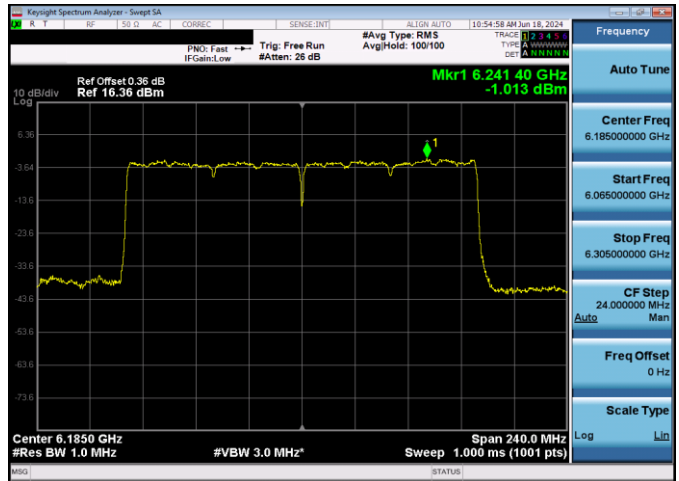
Plot 7-141. Power Spectral Density Plot Antenna 5T SP (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



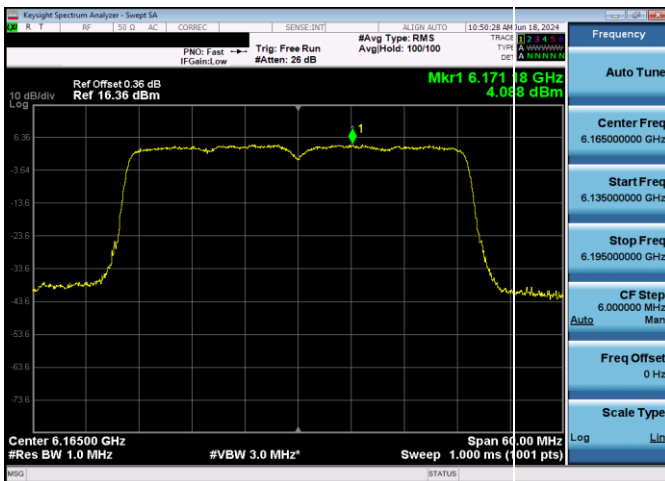
Plot 7-144. Power Spectral Density Plot Antenna 5T SP (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



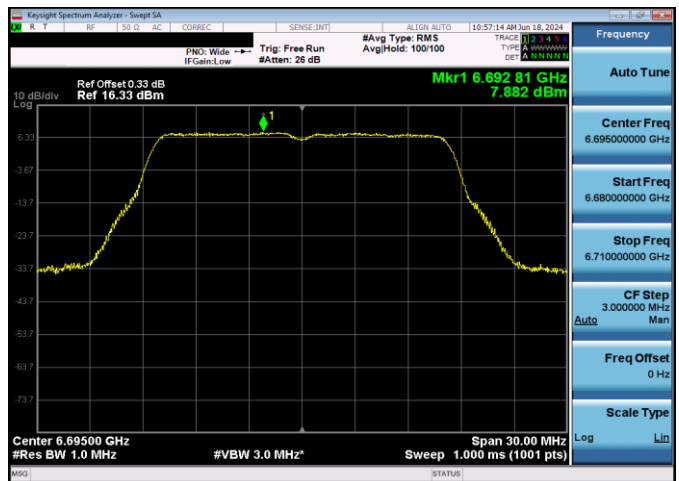
Plot 7-142. Power Spectral Density Plot Antenna 5T SP (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-145. Power Spectral Density Plot Antenna 5T SP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

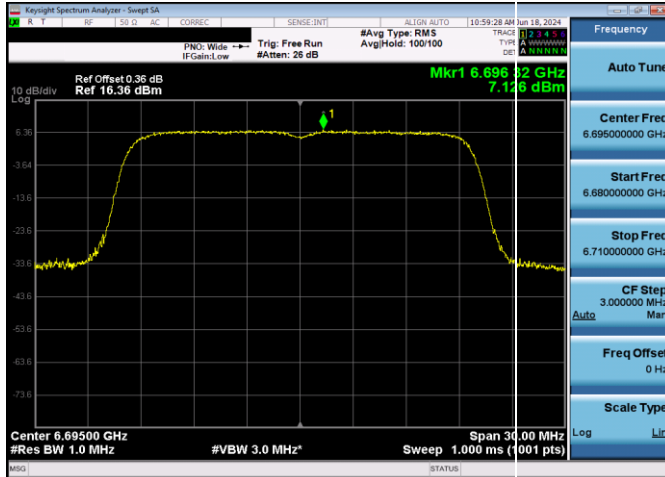


Plot 7-143. Power Spectral Density Plot Antenna 5T SP (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)

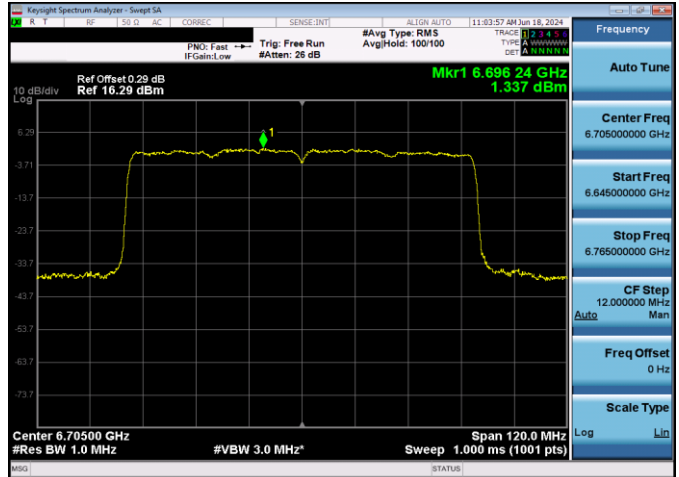


Plot 7-146. Power Spectral Density Plot Antenna 5T SP (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

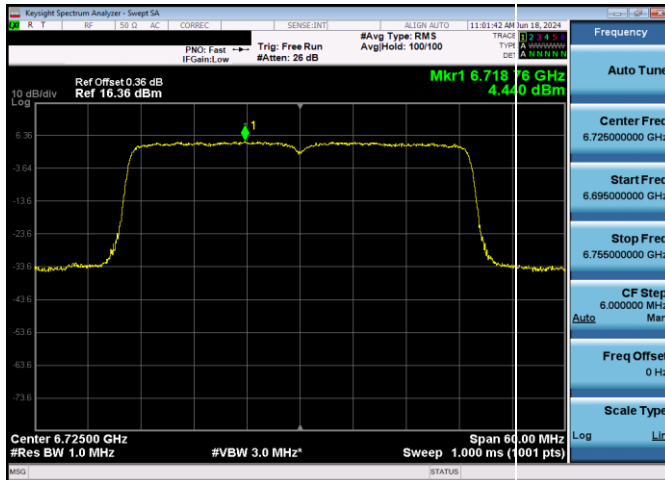
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 81 of 317



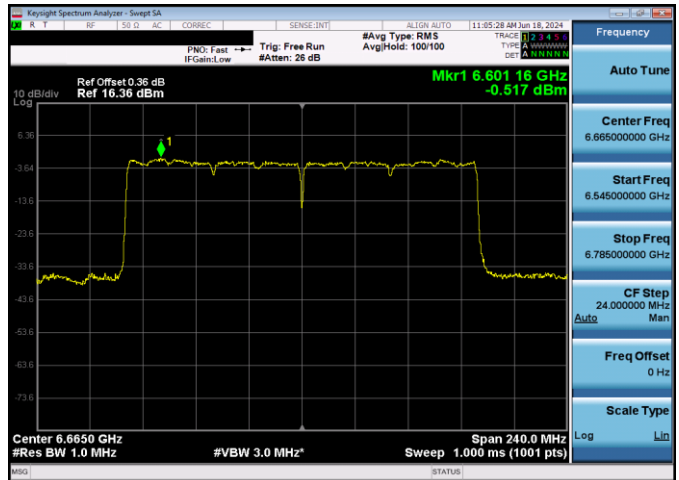
Plot 7-147. Power Spectral Density Plot Antenna 5T SP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-149. Power Spectral Density Plot Antenna 5T SP (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)

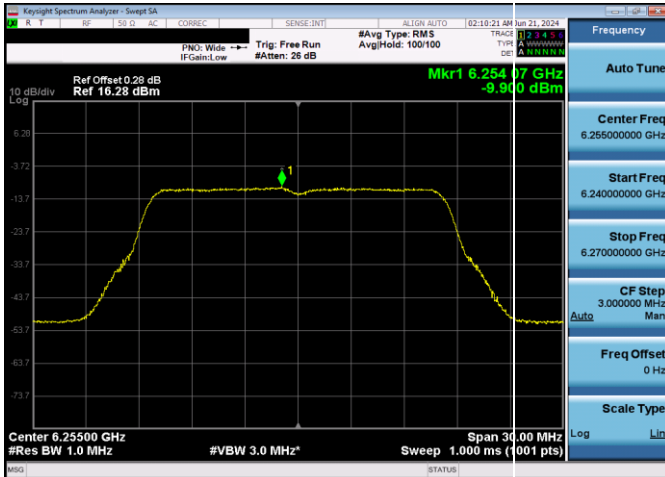


Plot 7-148. Power Spectral Density Plot Antenna 5T SP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)

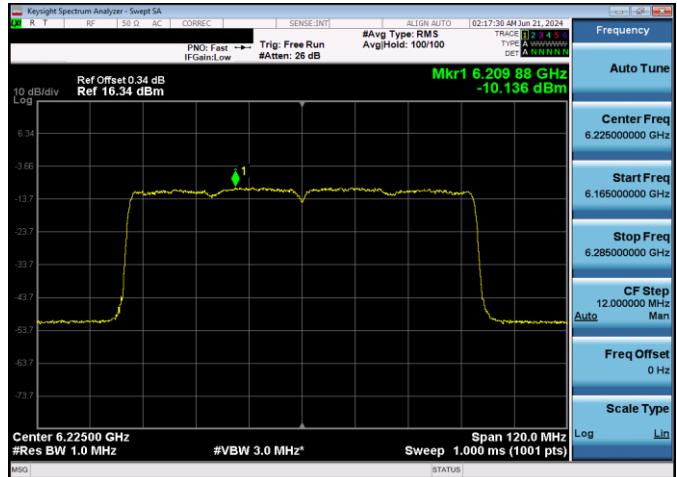


Plot 7-150. Power Spectral Density Plot Antenna 5T SP (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

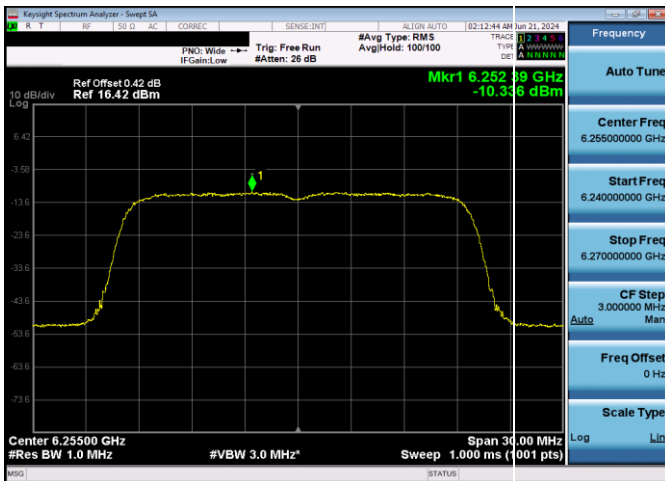
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 82 of 317



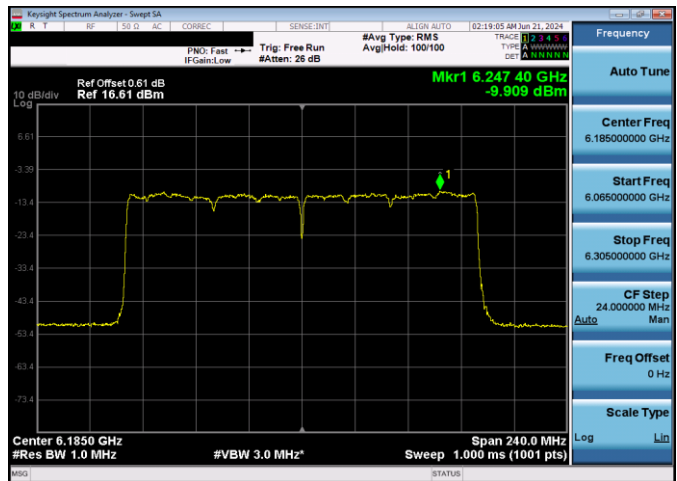
Plot 7-151. Power Spectral Density Plot Antenna 5T VLP (20MHz 802.11a (UNII Band 5) – Ch. 61, 54Mbps)



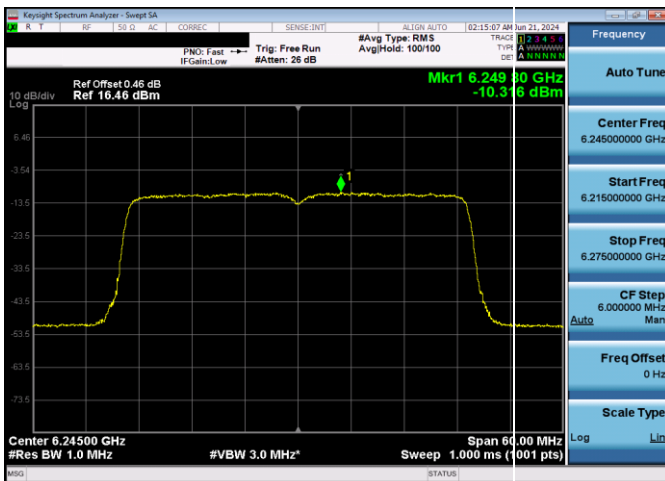
Plot 7-154. Power Spectral Density Plot Antenna 5T VLP (80MHz 802.11ax (UNII Band 5) – Ch. 55, MCS11)



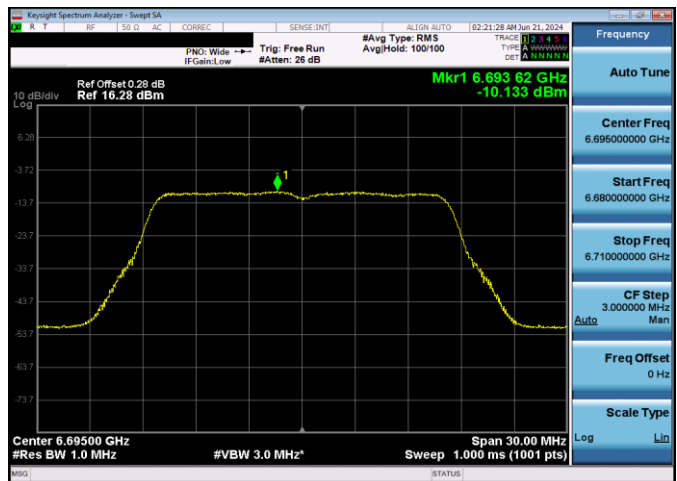
Plot 7-152. Power Spectral Density Plot Antenna 5T VLP (20MHz 802.11ax (UNII Band 5) – Ch. 61, MCS11)



Plot 7-155. Power Spectral Density Plot Antenna 5T VLP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

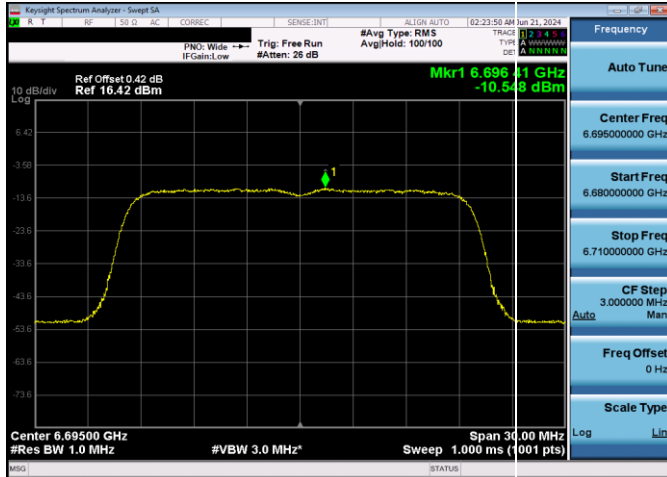


Plot 7-153. Power Spectral Density Plot Antenna 5T VLP (40MHz 802.11ax (UNII Band 5) – Ch. 59, MCS11)

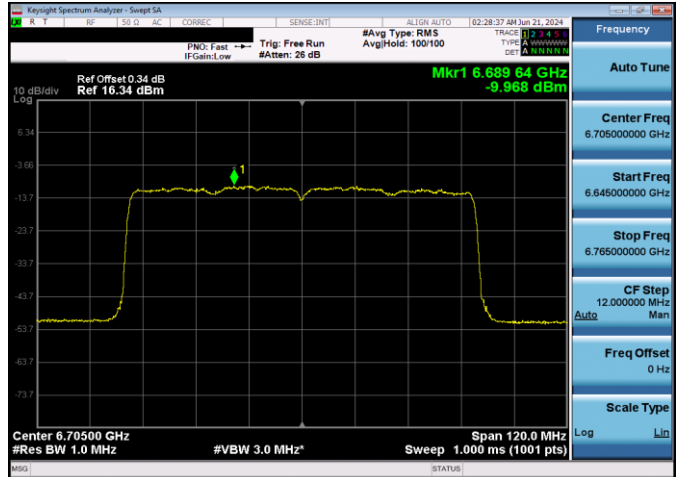


Plot 7-156. Power Spectral Density Plot Antenna 5T VLP (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

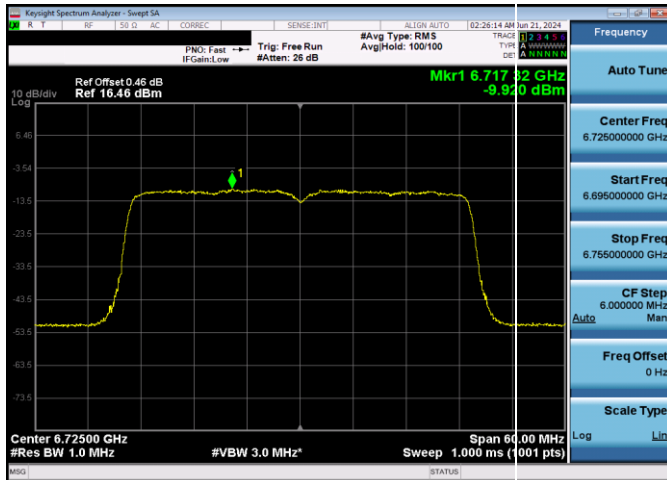
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 83 of 317



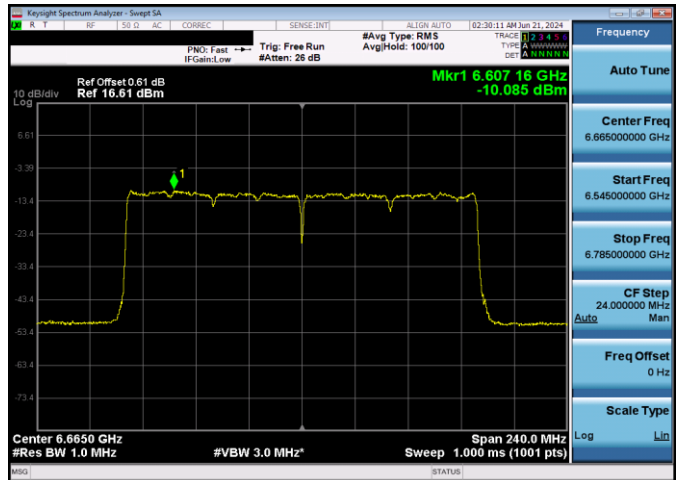
Plot 7-157. Power Spectral Density Plot Antenna 5T VLP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-159. Power Spectral Density Plot Antenna 5T VLP (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-158. Power Spectral Density Plot Antenna 5T VLP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



Plot 7-160. Power Spectral Density Plot Antenna 5T VLP (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.4.2 Antenna 3b Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	-6.15	0.60	-5.55	-1	-4.55
	6175	45	a	54	-5.03	0.60	-4.43	-1	-3.43
	6415	93	a	54	-5.46	0.60	-4.86	-1	-3.86
	5955	1	ax (20MHz)	135/143.4 (MCS11)	-6.83	0.60	-6.23	-1	-5.23
	6175	45	ax (20MHz)	135/143.4 (MCS11)	-5.84	0.60	-5.24	-1	-4.24
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-5.54	0.60	-4.94	-1	-3.94
	5965	3	ax (40MHz)	271/286.8 (MCS11)	-6.70	0.60	-6.10	-1	-5.10
	6165	43	ax (40MHz)	271/286.8 (MCS11)	-5.81	0.60	-5.21	-1	-4.21
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-5.53	0.60	-4.93	-1	-3.93
	5985	7	ax (80MHz)	567/600.5 (MCS11)	-6.42	0.60	-5.82	-1	-4.82
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-5.62	0.60	-5.02	-1	-4.02
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-5.11	0.60	-4.51	-1	-3.51
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-5.72	0.60	-5.12	-1	-4.12
6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-4.93	0.60	-4.33	-1	-3.33	
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-5.30	0.60	-4.70	-1	-3.70	
Band 6	6435	97	a	54	-5.49	-0.20	-5.69	-1	-4.69
	6475	105	a	54	-5.48	-0.20	-5.68	-1	-4.68
	6515	113	a	54	-5.18	-0.20	-5.38	-1	-4.38
	6435	97	ax (20MHz)	135/143.4 (MCS11)	-5.85	-0.20	-6.05	-1	-5.05
	6475	105	ax (20MHz)	135/143.4 (MCS11)	-6.16	-0.20	-6.36	-1	-5.36
	6515	113	ax (20MHz)	135/143.4 (MCS11)	-5.79	-0.20	-5.99	-1	-4.99
	6445	99	ax (40MHz)	271/286.8 (MCS11)	-5.72	-0.20	-5.92	-1	-4.92
	6485	107	ax (40MHz)	271/286.8 (MCS11)	-5.75	-0.20	-5.95	-1	-4.95
	6525	115	ax (40MHz)	271/286.8 (MCS11)	-5.99	-0.20	-6.19	-1	-5.19
	6465	103	ax (80MHz)	567/600.5 (MCS11)	-5.42	-0.20	-5.62	-1	-4.62
Band 7	6505	111	ax (160MHz)	1020.8/1201 (MCS11)	-5.48	-0.20	-5.68	-1	-4.68
	6535	117	a	54	-5.38	0.60	-4.78	-1	-3.78
	6695	149	a	54	-5.38	0.60	-4.78	-1	-3.78
	6875	185	a	54	-5.50	0.60	-4.90	-1	-3.90
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-6.05	0.60	-5.45	-1	-4.45
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-5.89	0.60	-5.29	-1	-4.29
	6875	185	ax (20MHz)	135/143.4 (MCS11)	-5.64	0.60	-5.04	-1	-4.04
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-5.57	0.60	-4.97	-1	-3.97
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-5.72	0.60	-5.12	-1	-4.12
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-5.34	0.60	-4.74	-1	-3.74
	6545	119	ax (80MHz)	567/600.5 (MCS11)	-5.71	0.60	-5.11	-1	-4.11
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-5.55	0.60	-4.95	-1	-3.95
	6865	183	ax (80MHz)	567/600.5 (MCS11)	-5.30	0.60	-4.70	-1	-3.70
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-5.35	0.60	-4.75	-1	-3.75
6825	175	ax (160MHz)	1020.8/1201 (MCS11)	-4.78	0.60	-4.18	-1	-3.18	
Band 8	6895	189	a	54	-5.24	0.90	-4.34	-1	-3.34
	6995	209	a	54	-5.71	0.90	-4.81	-1	-3.81
	7115	233	a	54	-5.54	0.90	-4.64	-1	-3.64
	6895	189	ax (20MHz)	135/143.4 (MCS11)	-6.28	0.90	-5.38	-1	-4.38
	6995	209	ax (20MHz)	135/143.4 (MCS11)	-6.08	0.90	-5.18	-1	-4.18
	7115	233	ax (20MHz)	135/143.4 (MCS11)	-6.20	0.90	-5.30	-1	-4.30
	6885	187	ax (40MHz)	271/286.8 (MCS11)	-5.48	0.90	-4.58	-1	-3.58
	7005	211	ax (40MHz)	271/286.8 (MCS11)	-5.59	0.90	-4.69	-1	-3.69
	7085	227	ax (40MHz)	271/286.8 (MCS11)	-5.91	0.90	-5.01	-1	-4.01
	6945	199	ax (80MHz)	567/600.5 (MCS11)	-5.23	0.90	-4.33	-1	-3.33
	7025	215	ax (80MHz)	567/600.5 (MCS11)	-5.57	0.90	-4.67	-1	-3.67
6985	207	ax (160MHz)	1020.8/1201 (MCS11)	-5.15	0.90	-4.25	-1	-3.25	

**Table 7-74. Power Spectral Density Measurements Antenna 3b LPI**

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 85 of 317

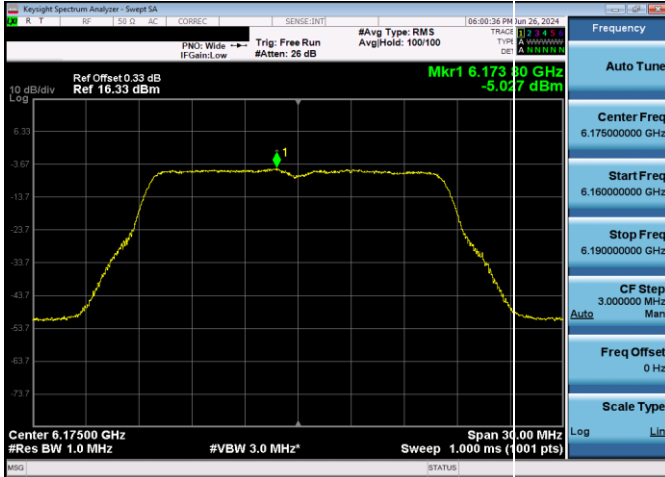
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	7.40	0.60	8.00	17	-9.00
	6175	45	a	54	7.41	0.60	8.01	17	-9.00
	6415	93	a	54	7.45	0.60	8.05	17	-8.96
	5955	1	ax (20MHz)	135/143.4 (MCS11)	6.47	0.60	7.07	17	-9.93
	6175	45	ax (20MHz)	135/143.4 (MCS11)	6.85	0.60	7.45	17	-9.55
	6415	93	ax (20MHz)	135/143.4 (MCS11)	6.89	0.60	7.49	17	-9.52
	5965	3	ax (40MHz)	271/286.8 (MCS11)	4.14	0.60	4.74	17	-12.26
	6165	43	ax (40MHz)	271/286.8 (MCS11)	4.43	0.60	5.03	17	-11.97
	6405	91	ax (40MHz)	271/286.8 (MCS11)	4.13	0.60	4.73	17	-12.27
	5985	7	ax (80MHz)	567/600.5 (MCS11)	1.05	0.60	1.65	17	-15.35
	6145	39	ax (80MHz)	567/600.5 (MCS11)	1.42	0.60	2.02	17	-14.98
	6385	87	ax (80MHz)	567/600.5 (MCS11)	1.43	0.60	2.03	17	-14.97
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-1.36	0.60	-0.76	17	-17.76
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-0.87	0.60	-0.27	17	-17.27
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-1.08	0.60	-0.48	17	-17.48	
Band 7	6535	117	a	54	7.80	0.60	8.40	17	-8.60
	6695	149	a	54	7.51	0.60	8.11	17	-8.89
	6855	181	a	54	7.75	0.60	8.35	17	-8.65
	6535	117	ax (20MHz)	135/143.4 (MCS11)	7.19	0.60	7.79	17	-9.21
	6695	149	ax (20MHz)	135/143.4 (MCS11)	7.51	0.60	8.11	17	-8.89
	6855	181	ax (20MHz)	135/143.4 (MCS11)	7.63	0.60	8.23	17	-8.77
	6565	123	ax (40MHz)	271/286.8 (MCS11)	4.14	0.60	4.74	17	-12.26
	6725	155	ax (40MHz)	271/286.8 (MCS11)	4.18	0.60	4.78	17	-12.22
	6845	179	ax (40MHz)	271/286.8 (MCS11)	4.68	0.60	5.28	17	-11.72
	6625	135	ax (80MHz)	567/600.5 (MCS11)	1.76	0.60	2.36	17	-14.64
	6705	151	ax (80MHz)	567/600.5 (MCS11)	1.75	0.60	2.35	17	-14.65
	6785	167	ax (80MHz)	567/600.5 (MCS11)	1.69	0.60	2.29	17	-14.71
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-0.64	0.60	-0.04	17	-17.04

**Table 7-75. Power Spectral Density Measurements Antenna 3b SP**

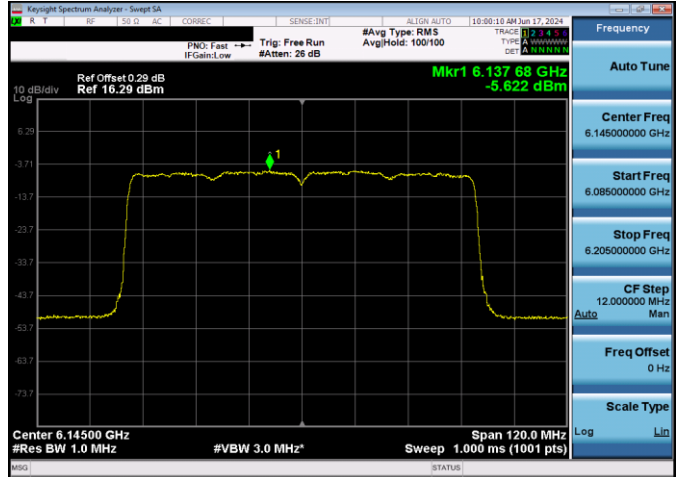
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	54	-10.35	0.60	-9.75	-5	-4.75
	6255	61	a	54	-10.89	0.60	-10.29	-5	-5.29
	6415	93	a	54	-10.86	0.60	-10.26	-5	-5.26
	6115	33	ax (20MHz)	135/143.4 (MCS11)	-11.31	0.60	-10.71	-5	-5.71
	6255	61	ax (20MHz)	135/143.4 (MCS11)	-11.75	0.60	-11.15	-5	-6.15
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-10.96	0.60	-10.36	-5	-5.36
	6125	35	ax (40MHz)	271/286.8 (MCS11)	-10.59	0.60	-9.99	-5	-4.99
	6245	59	ax (40MHz)	271/286.8 (MCS11)	-11.01	0.60	-10.41	-5	-5.41
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-10.12	0.60	-9.52	-5	-4.52
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-10.66	0.60	-10.06	-5	-5.06
	6225	55	ax (80MHz)	567/600.5 (MCS11)	-10.14	0.60	-9.54	-5	-4.54
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-10.05	0.60	-9.45	-5	-4.45
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-9.73	0.60	-9.13	-5	-4.13
	6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-10.26	0.60	-9.66	-5	-4.66
Band 7	6535	117	a	54	-11.04	0.60	-10.44	-5	-5.44
	6695	149	a	54	-10.79	0.60	-10.19	-5	-5.19
	6855	181	a	54	-10.66	0.60	-10.06	-5	-5.06
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-11.28	0.60	-10.68	-5	-5.68
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-11.30	0.60	-10.70	-5	-5.70
	6855	181	ax (20MHz)	135/143.4 (MCS11)	-10.48	0.60	-9.88	-5	-4.88
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-10.47	0.60	-9.87	-5	-4.87
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-10.97	0.60	-10.37	-5	-5.37
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-10.49	0.60	-9.89	-5	-4.89
	6625	135	ax (80MHz)	567/600.5 (MCS11)	-10.35	0.60	-9.75	-5	-4.75
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-10.53	0.60	-9.93	-5	-4.93
	6785	167	ax (80MHz)	567/600.5 (MCS11)	-10.04	0.60	-9.44	-5	-4.44
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-9.75	0.60	-9.15	-5	-4.15

**Table 7-76. Power Spectral Density Measurements Antenna 3b VLP**

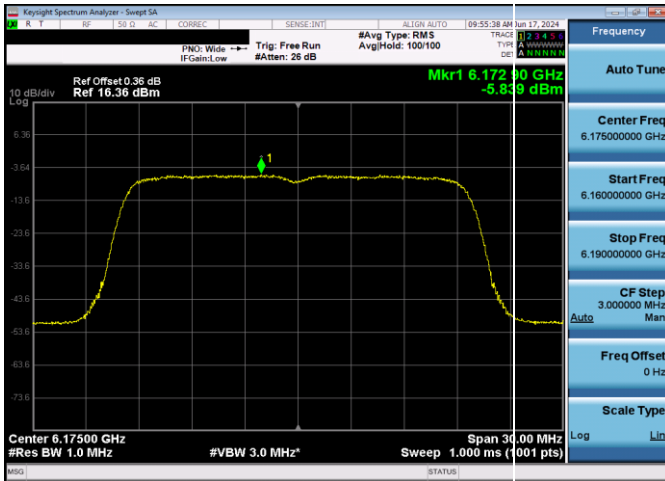
FCC ID: BCGA2995			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 86 of 317	



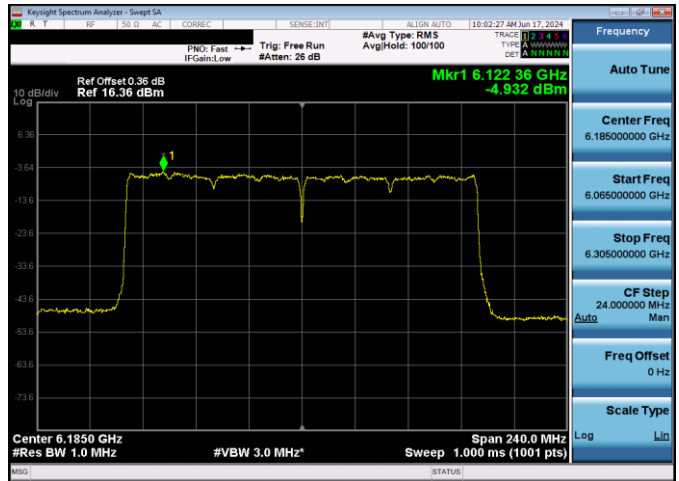
Plot 7-161. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



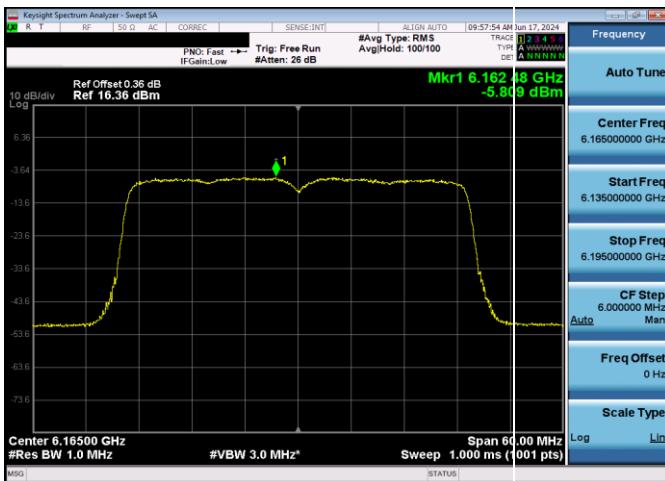
Plot 7-164. Power Spectral Density Plot Antenna 3b LPI (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



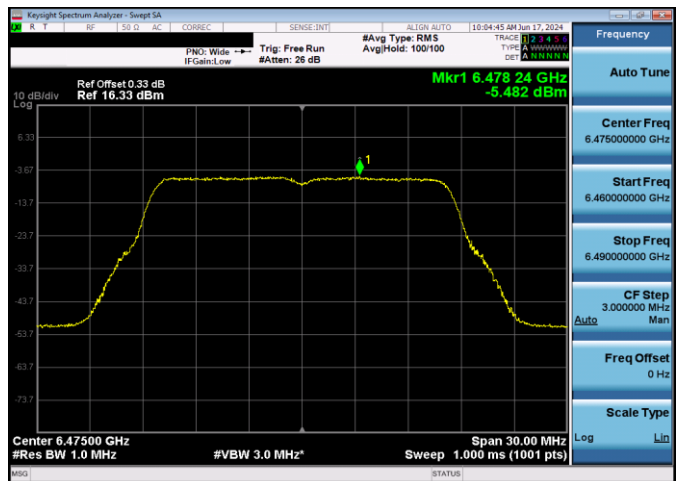
Plot 7-162. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-165. Power Spectral Density Plot Antenna 3b LPI (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



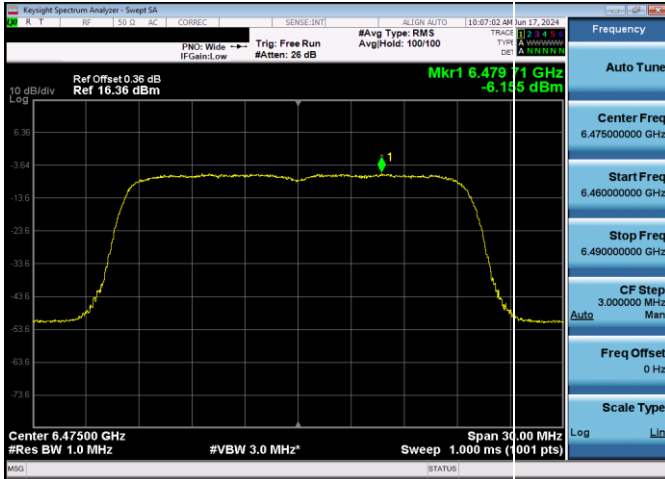
Plot 7-163. Power Spectral Density Plot Antenna 3b LPI (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)



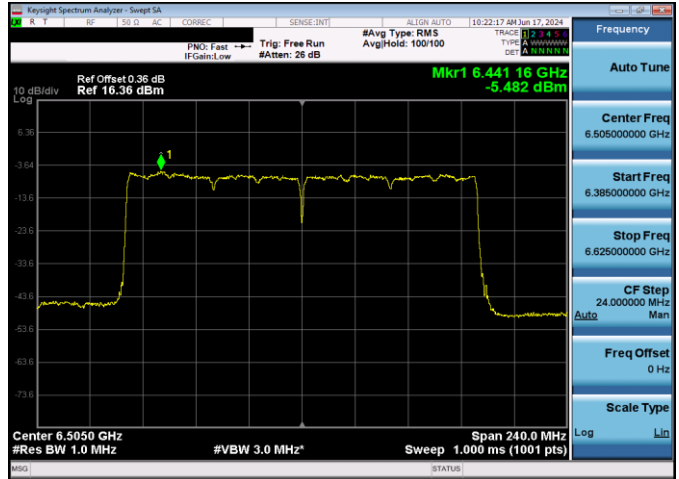
Plot 7-166. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11a (UNII Band 6) – Ch. 105, 54Mbps)

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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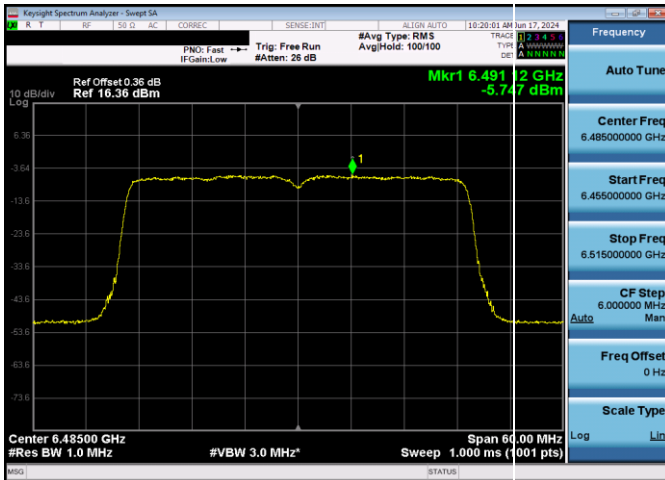




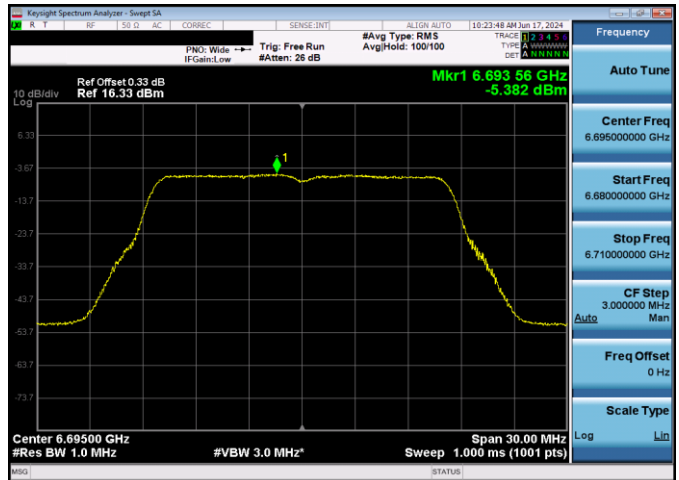
Plot 7-167. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



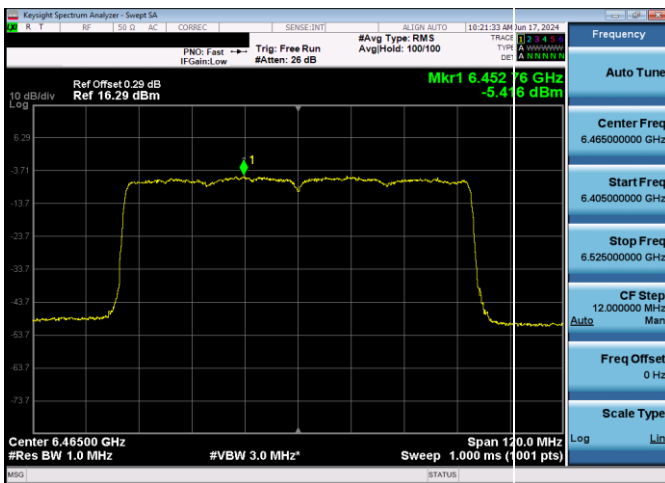
Plot 7-170. Power Spectral Density Plot Antenna 3b LPI (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



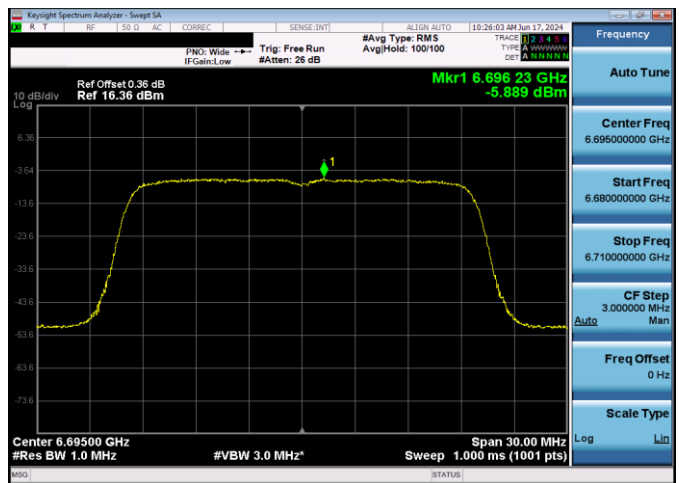
Plot 7-168. Power Spectral Density Plot Antenna 3b LPI (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



Plot 7-171. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

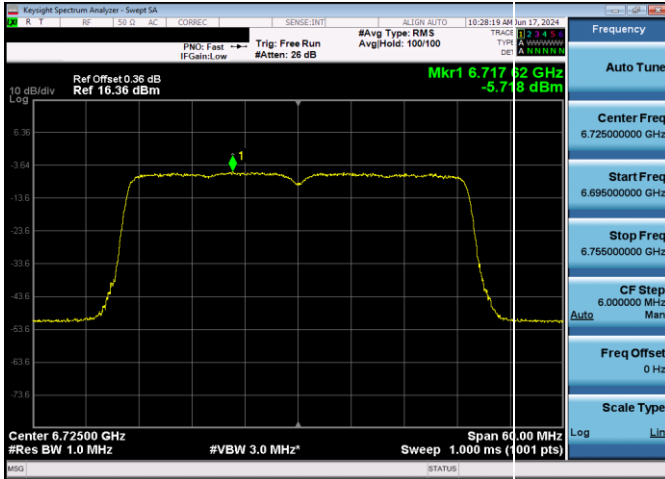


Plot 7-169. Power Spectral Density Plot Antenna 3b LPI (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)

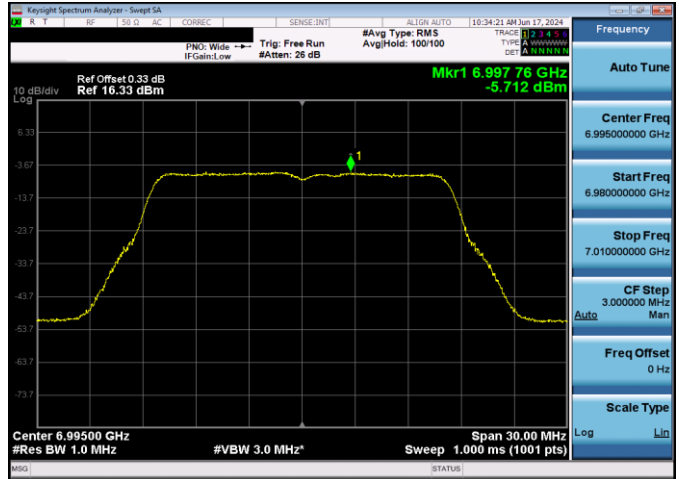


Plot 7-172. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

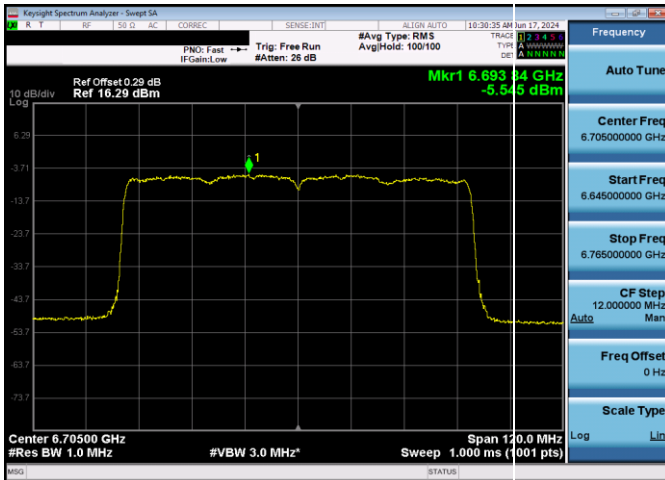
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 88 of 317



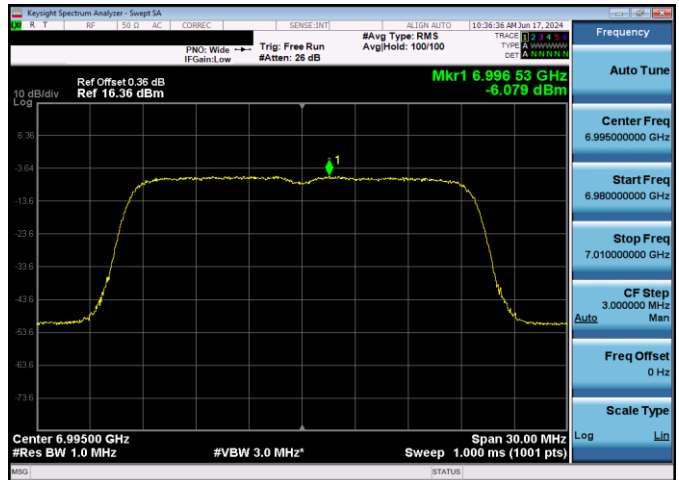
Plot 7-173. Power Spectral Density Plot Antenna 3b LPI (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



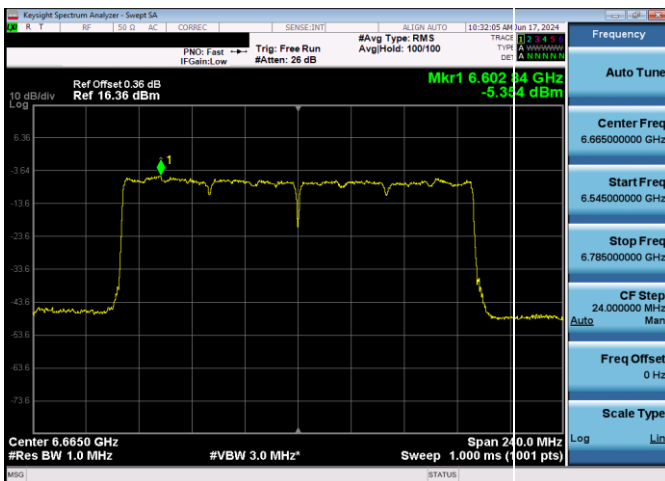
Plot 7-176. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11a (UNII Band 8) – Ch. 209, 54Mbps)



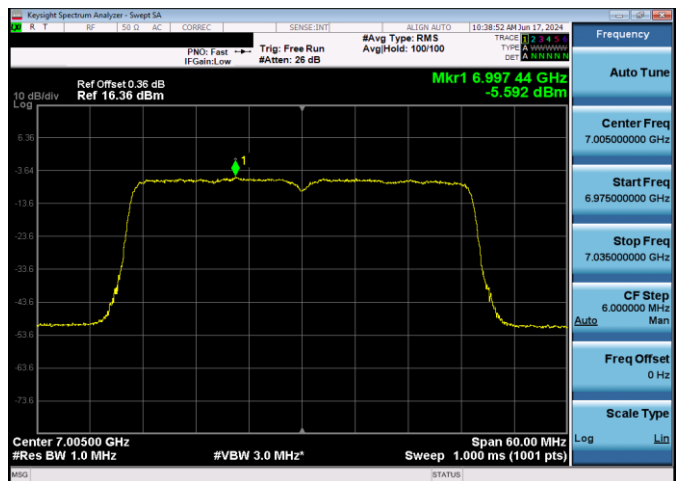
Plot 7-174. Power Spectral Density Plot Antenna 3b LPI (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-177. Power Spectral Density Plot Antenna 3b LPI (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)

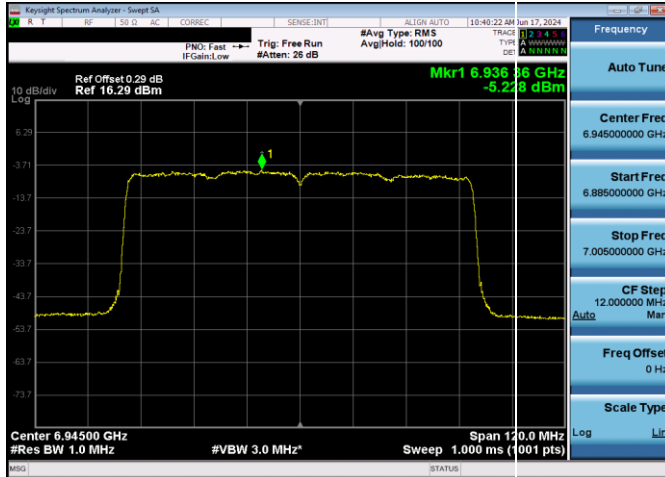


Plot 7-175. Power Spectral Density Plot Antenna 3b LPI (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

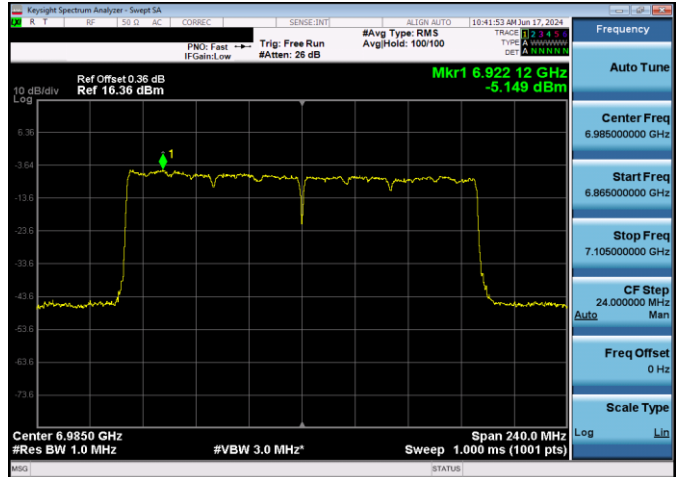


Plot 7-178. Power Spectral Density Plot Antenna 3b LPI (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-179. Power Spectral Density Plot Antenna 3b LPI (80MHz) 802.11ax (UNII Band 8) – Ch. 199, MCS11)



Plot 7-180. Power Spectral Density Plot Antenna 3b LPI (160MHz) 802.11ax (UNII Band 8) – Ch. 207, MCS11)

FCC ID: BCGA2995	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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