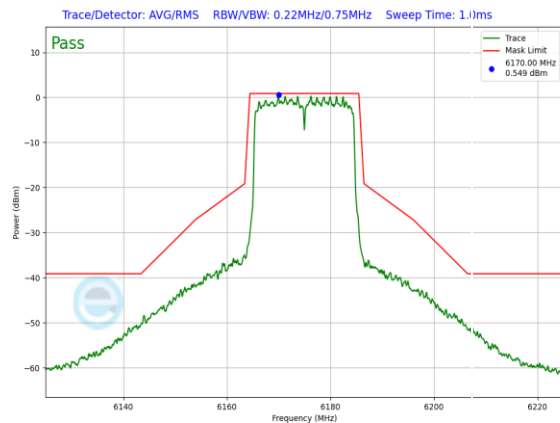
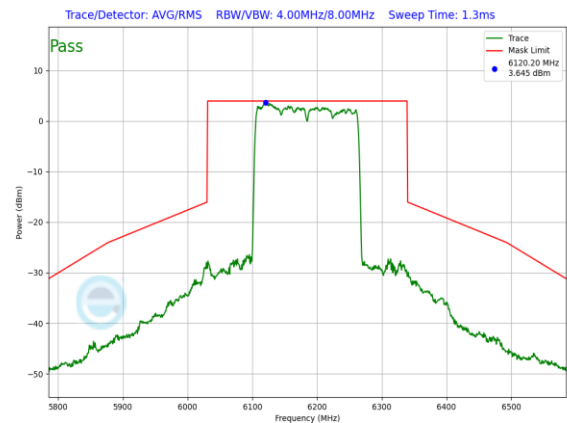
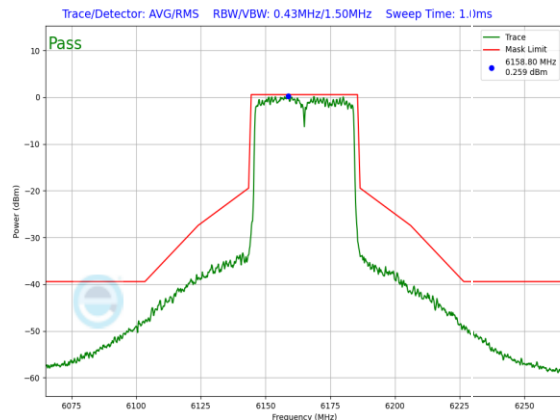




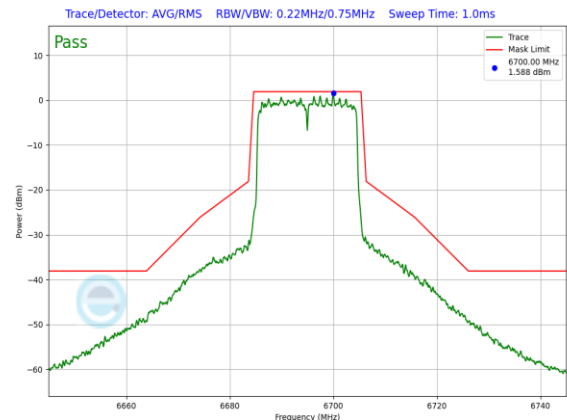
Plot 7-537. In-Band Emission Plot SDM Antenna 1b SP (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



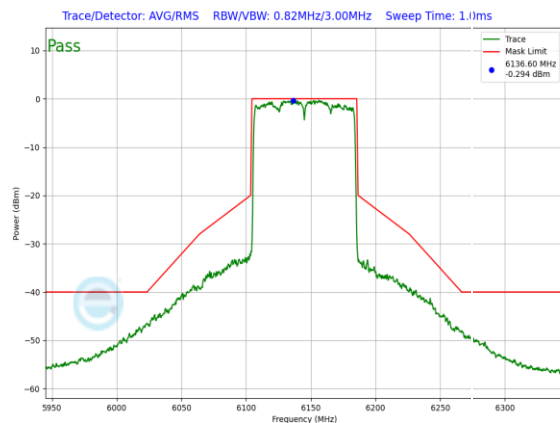
Plot 7-540. In-Band Emission Plot CDD Antenna 1b SP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



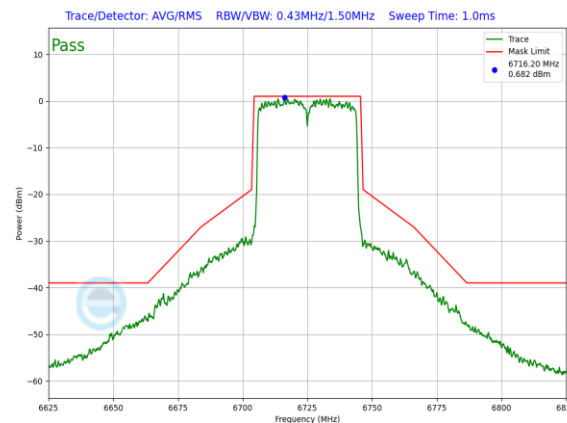
Plot 7-538. In-Band Emission Plot CDD Antenna 1b SP (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)



Plot 7-541. In-Band Emission Plot SDM Antenna 1b SP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-539. In-Band Emission Plot CDD Antenna 1b SP (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)

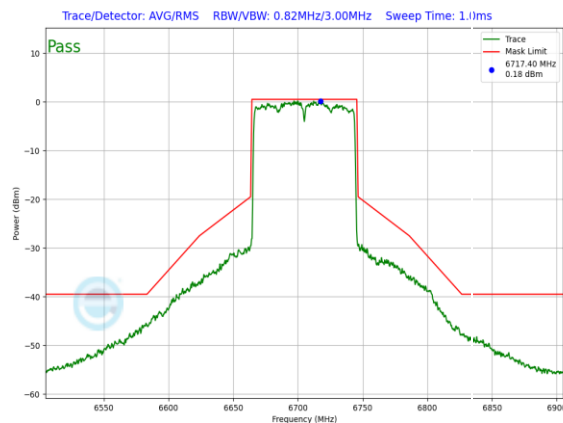


Plot 7-542. In-Band Emission Plot CDD Antenna 1b SP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)

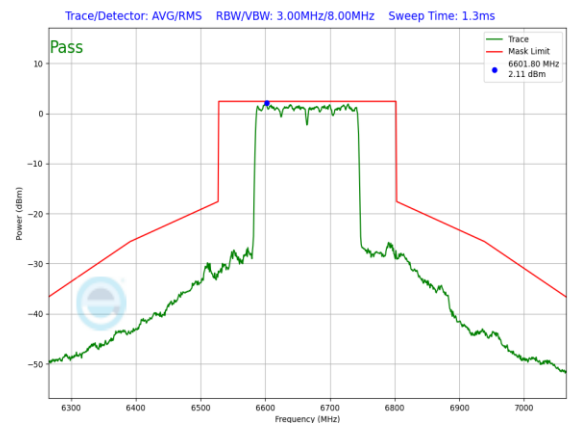
FCC ID: BCGA2995			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 170 of 317	

V 10.50.40 12/15/2021

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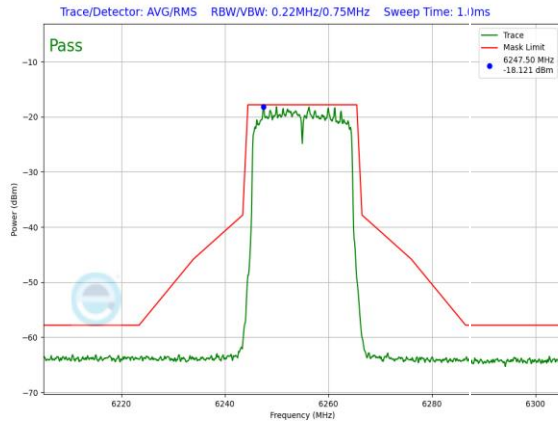
Plot 7-543. In-Band Emission Plot CDD Antenna 1b SP (80MHz
802.11ax (UNII Band 7) – Ch. 151, MCS11)



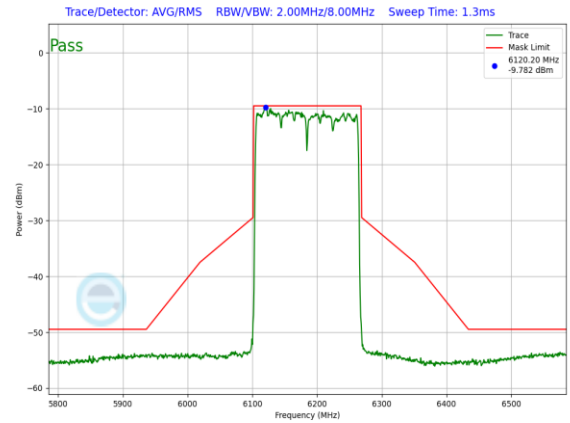
Plot 7-544. In-Band Emission Plot CDD Antenna 1b SP (160MHz
802.11ax (UNII Band 7) – Ch. 143, MCS11)

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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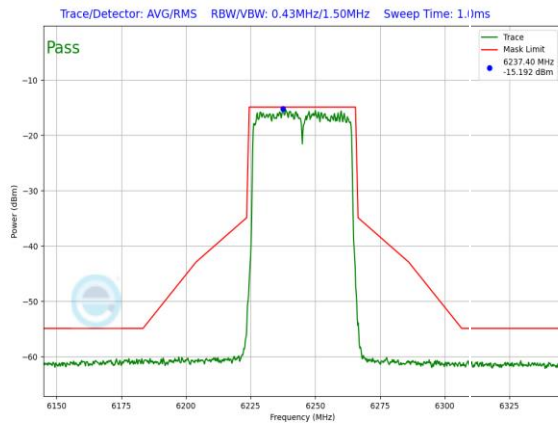
V 10.50.40 12/15/2021



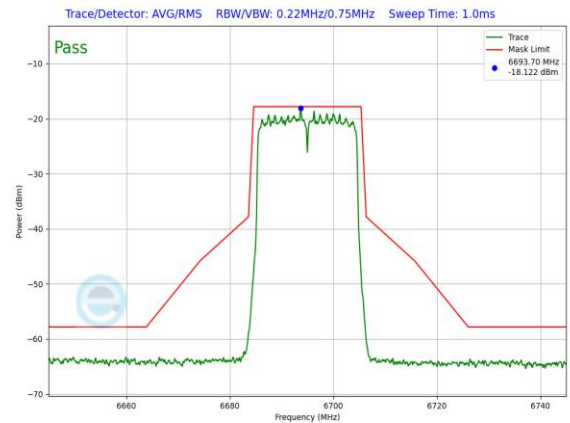
Plot 7-545. In-Band Emission Plot SDM Antenna 1b VLP (20MHz 802.11ax (UNII Band 5) – Ch. 61, MCS11)



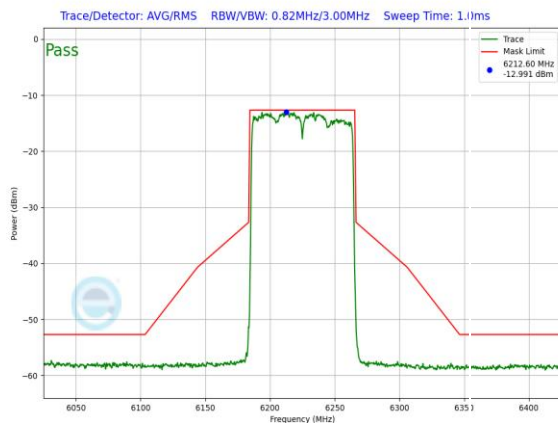
Plot 7-548. In-Band Emission Plot SDM Antenna 1b VLP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



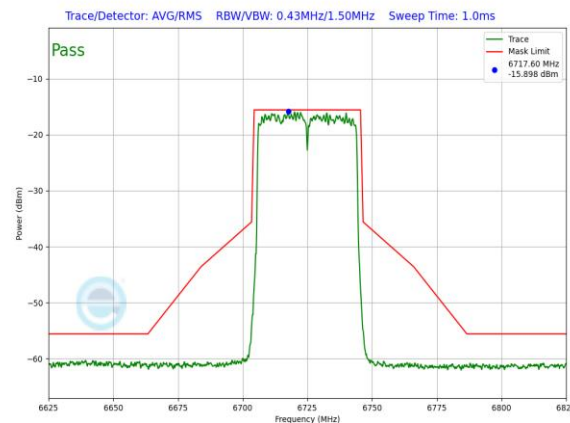
Plot 7-546. In-Band Emission Plot SDM Antenna 1b VLP (40MHz 802.11ax (UNII Band 5) – Ch. 59, MCS11)



Plot 7-549. In-Band Emission Plot SDM Antenna 1b VLP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-547. In-Band Emission Plot SDM Antenna 1b VLP (80MHz 802.11ax (UNII Band 5) – Ch. 55, MCS11)

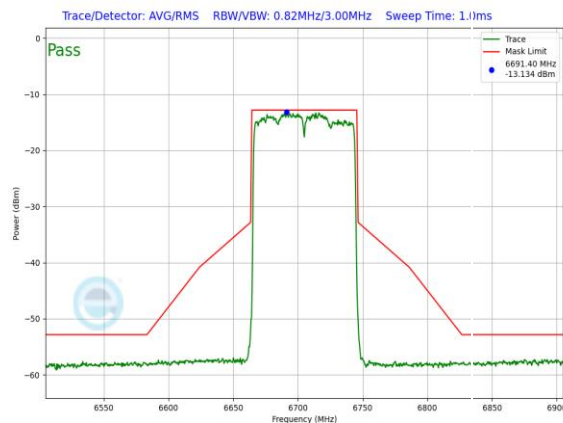


Plot 7-550. In-Band Emission Plot SDM Antenna 1b VLP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)

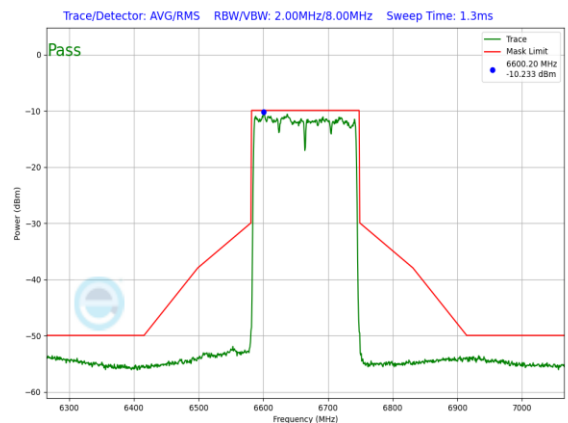
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device		Page 172 of 317

V 10.50.40 12/15/2021

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Plot 7-551. In-Band Emission Plot SDM Antenna 1b VLP (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-552. In-Band Emission Plot SDM Antenna 1b VLP (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 173 of 317

V 10.50.40 12/15/2021

7.6 Contention Based Protocol

§15.407(d)(6)

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) while very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands 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 and very 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 as long as 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 v02

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.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. 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.
7. 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.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. 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.
10. 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.
11. Refer to Table 1 to determine 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 Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 174 of 317

V 10.50.40 12/15/2021

Test Setup

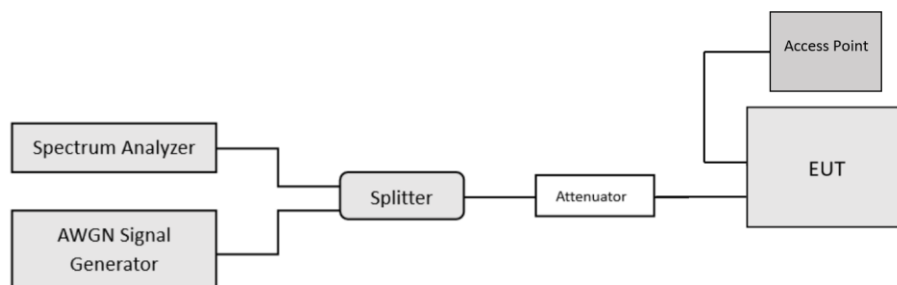


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. The EUT does not support channel puncturing.
2. Per guidance from KDB 987594 D02 v02r01, 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, marker indicates the point at which the AWGN signal is introduced.
3. Per KDB 987594 D04 v02, contention-based protocol was tested with receiver with the lowest antenna gain.
4. 15 trials were ran in order to assure that at least 90% of certainty was met.

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

Equation 7-1. Incumbent Detection Level Calculation

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 175 of 317

V 10.50.40 12/15/2021

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-71.04	-1.10	-69.94	-62.0	-7.94
	47	6185	160	6110	-68.25	-1.10	-67.15	-62.0	-5.15
				6185	-67.26	-1.10	-66.16	-62.0	-4.16
				6260	-64.80	-1.10	-63.70	-62.0	-1.70
UNII Band 6	101	6455	20	6455	-73.26	-1.10	-72.16	-62.0	-10.16
	111	6505	160	6430	-70.31	-1.10	-69.21	-62.0	-7.21
				6505	-70.45	-1.10	-69.35	-62.0	-7.35
				6580	-67.50	-1.10	-66.40	-62.0	-4.40
UNII Band 7	149	6695	20	6695	-71.36	-1.10	-70.26	-62.0	-8.26
	143	6665	160	6590	-68.35	-1.10	-67.25	-62.0	-5.25
				6665	-67.16	-1.10	-66.06	-62.0	-4.06
				6740	-70.40	-1.10	-69.30	-62.0	-7.30
UNII Band 8	197	6935	20	6935	-75.86	-1.10	-74.76	-62.0	-12.76
	207	6985	160	6910	-71.35	-1.10	-70.25	-62.0	-8.25
				6985	-70.45	-1.10	-69.35	-62.0	-7.35
				7060	-67.35	-1.10	-66.25	-62.0	-4.25

Table 7-86. Contention Based Protocol LPI – Incumbent Detection Results

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	EUT Transmission Status		
					Adjusted AWGN Power (dBm)		
					Normal	Minimal	Ceased
UNII Band 5	53	6215	20	6215	-81.12	-71.19	-69.94
	47	6185	160	6110	-78.33	-68.40	-67.15
				6185	-77.34	-67.41	-66.16
				6260	-74.88	-64.95	-63.70
UNII Band 6	101	6455	20	6455	-83.34	-73.41	-72.16
	111	6505	160	6430	-80.39	-70.46	-69.21
				6505	-80.53	-70.60	-69.35
				6580	-77.58	-67.65	-66.40
UNII Band 7	149	6695	20	6695	-81.24	-71.48	-70.26
	143	6665	160	6750	-78.23	-68.47	-67.25
				6825	-77.04	-67.28	-66.06
				6900	-80.28	-70.52	-69.30
UNII Band 8	197	6935	20	6935	-85.74	-75.98	-74.76
	207	6985	160	6910	-81.23	-71.47	-70.25
				6985	-80.33	-70.57	-69.35
				7060	-77.23	-67.47	-66.25

Table 7-87. Contention Based Protocol LPI – Detection Results – All Tx Cases

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 176 of 317

V 10.50.40 12/15/2021

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CBP Detection (1 = Detection, Blank = No Detection)																					
Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	111	6505	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	143	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	207	6985	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

Table 7-88. Contention Based Protocol LPI – Incumbent Detection Trial Results

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-67.93	-1.10	-66.83	-62.0	-4.83
				6110	-67.82	-1.10	-66.72	-62.0	-4.72
	47	6185	160	6185	-66.77	-1.10	-65.67	-62.0	-3.67
				6260	-66.91	-1.10	-65.81	-62.0	-3.81
UNII Band 7	149	6695	20	6695	-66.42	-1.10	-65.32	-62.0	-3.32
	143	6665	160	6590	-66.72	-1.10	-65.62	-62.0	-3.62
				6665	-66.41	-1.10	-65.31	-62.0	-3.31
				6740	-66.76	-1.10	-65.66	-62.0	-3.66

Table 7-89. Contention Based Protocol VLP – Incumbent Detection Results

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	EUT Transmission Status		
					Adjusted AWGN Power (dBm)		
					Normal	Minimal	Ceased
UNII Band 5	53	6215	20	6215	-78.01	-68.08	-66.83
				6110	-77.90	-67.97	-66.72
	47	6185	160	6185	-76.85	-66.92	-65.67
				6260	-76.99	-67.06	-65.81
UNII Band 7	149	6695	20	6695	-76.30	-66.54	-65.32
	175	6665	160	6750	-76.60	-66.84	-65.62
				6825	-76.29	-66.53	-65.31
				6900	-76.64	-66.88	-65.66

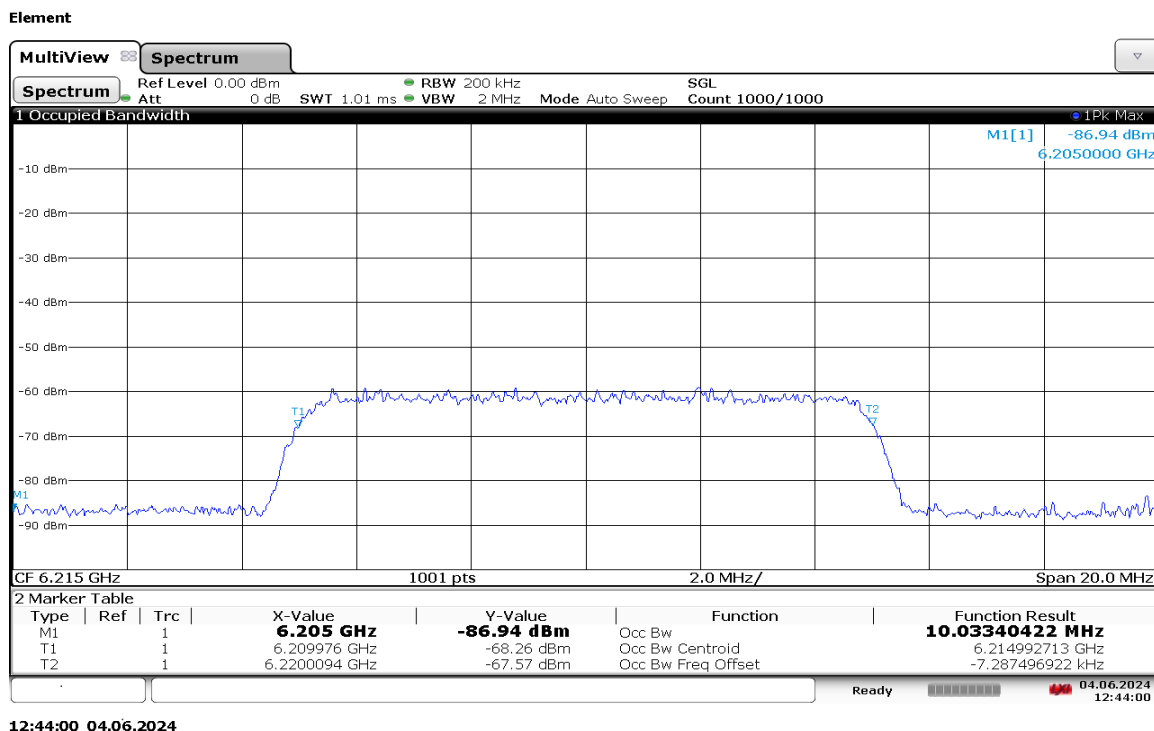
Table 7-90. Contention Based Protocol VLP – Detection Results – All Tx Cases

CBP Detection (1 = Detection, Blank = No Detection)																					
Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	175	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

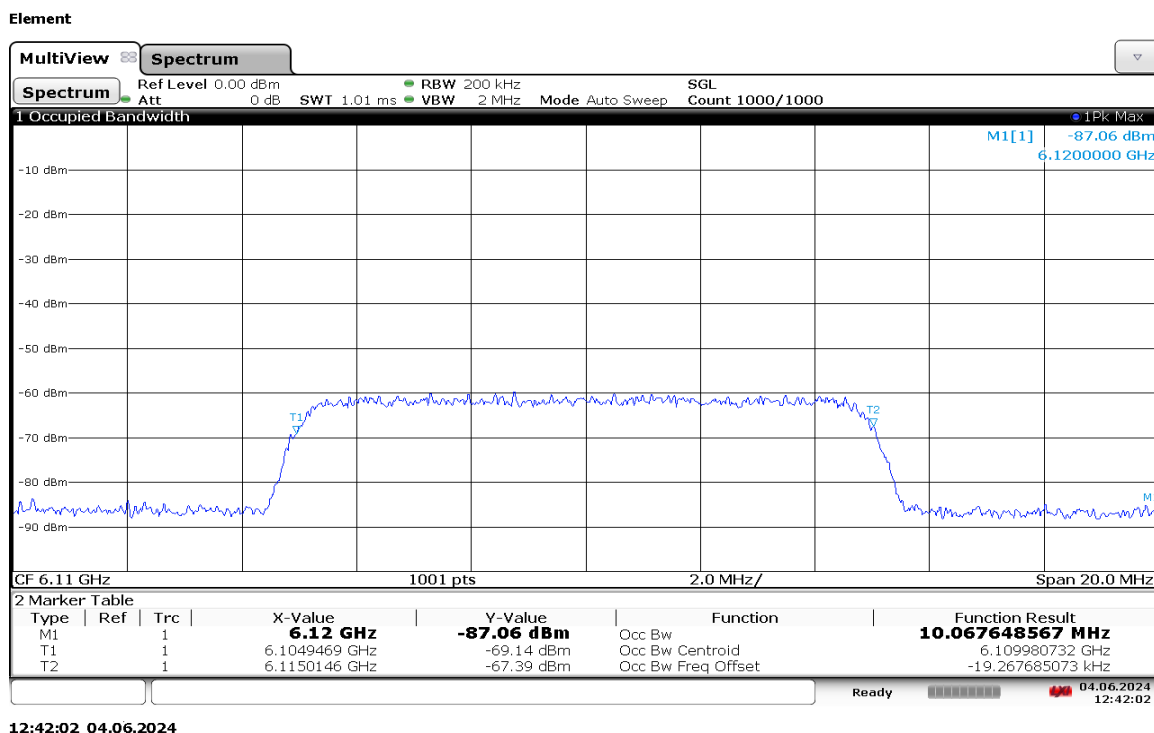
Table 7-91. Contention Based Protocol VLP – Incumbent Detection Trial Results

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



Plot 7-553. AWGN Signal – UNII 5 – 20MHz



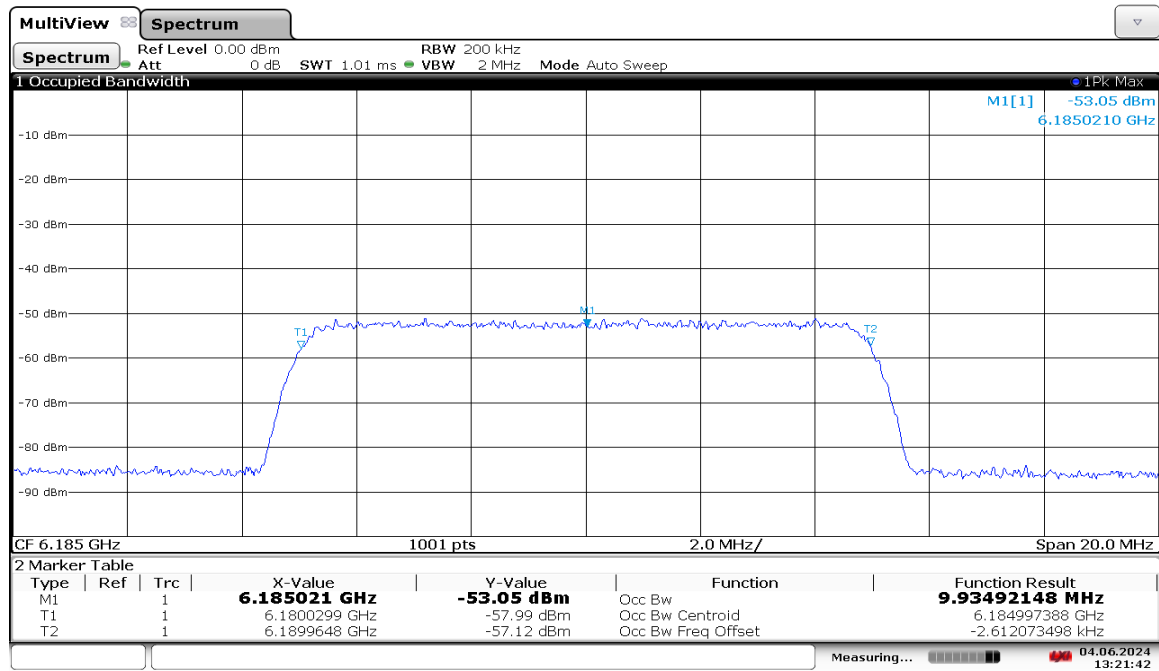
Plot 7-554. AWGN Signal – UNII 5 – 160MHz - Low

FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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V 10.50.40 12/15/2021

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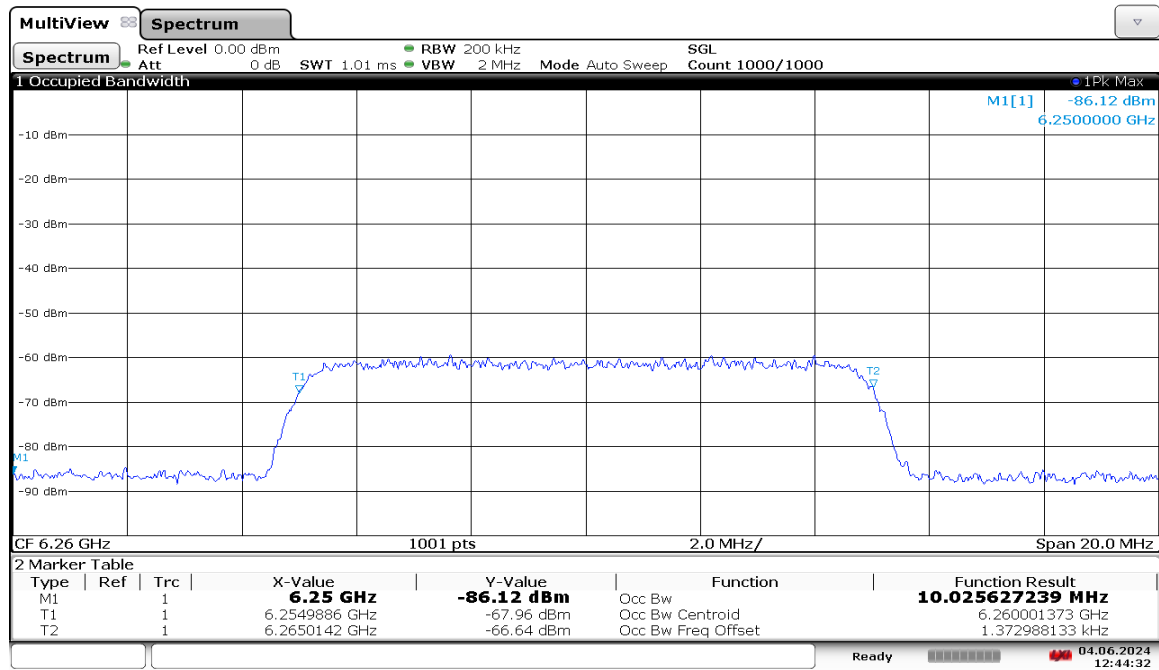
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13:21:42 04.06.2024

Plot 7-555. AWGN Signal – UNII 5 – 160MHz – Mid

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12:44:32 04.06.2024

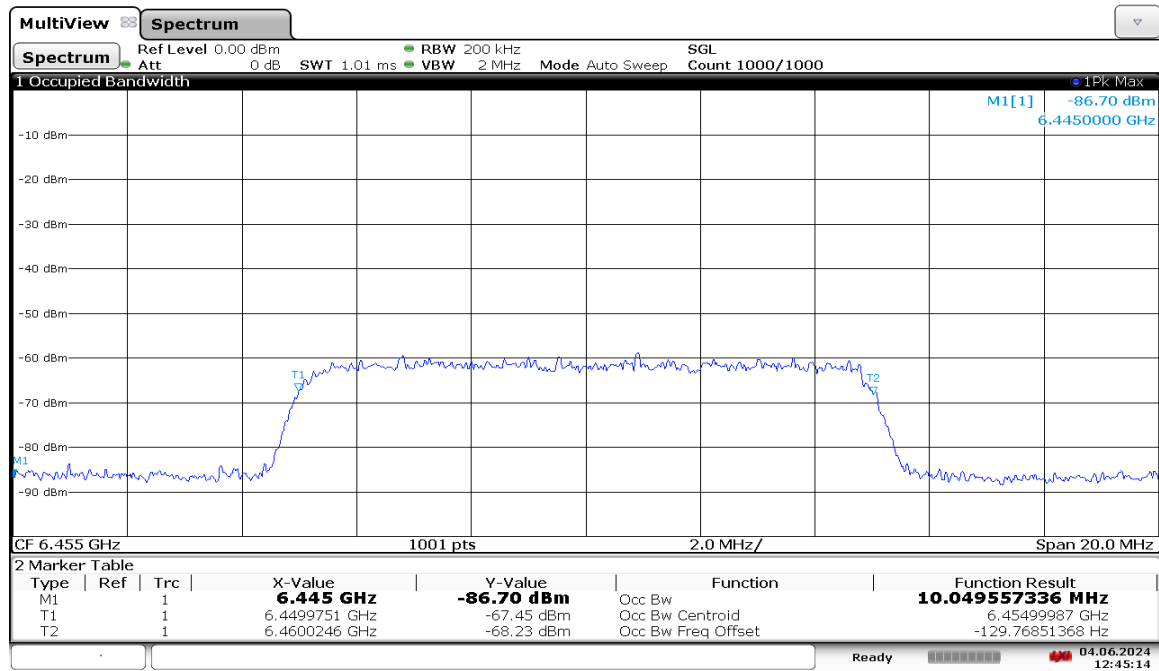
Plot 7-556. AWGN Signal – UNII 5 – 160MHz - High

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 179 of 317

V 10.50.40 12/15/2021

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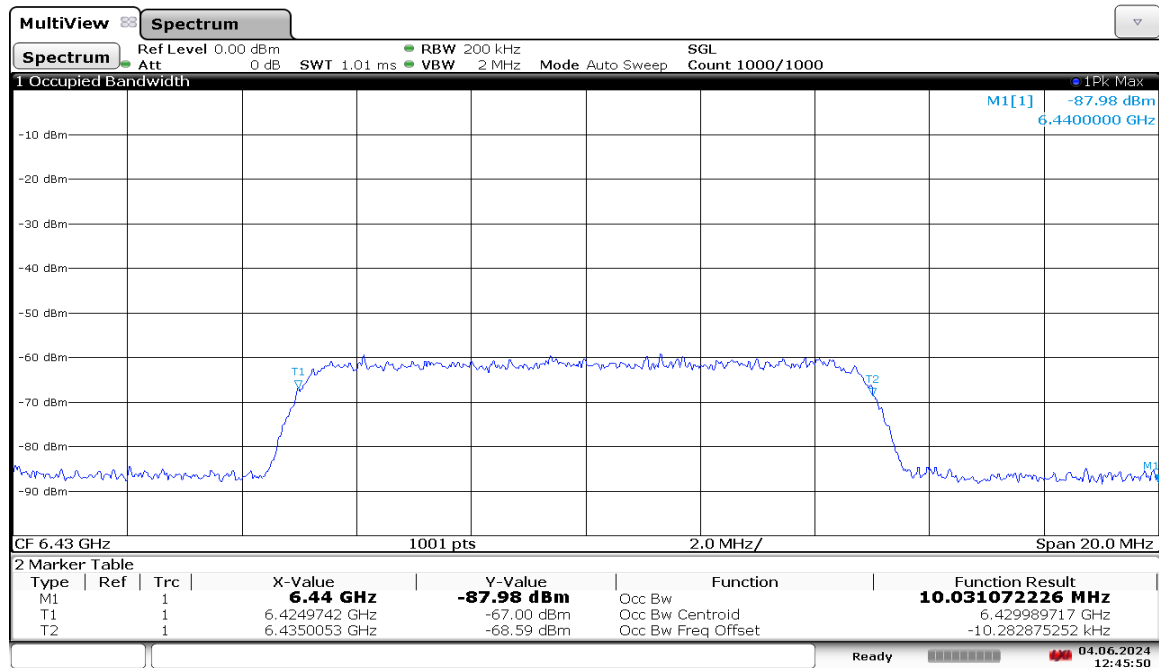
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12:45:14 04.06.2024

Plot 7-557. AWGN Signal – UNII 6 – 20MHz

Element



12:45:50 04.06.2024

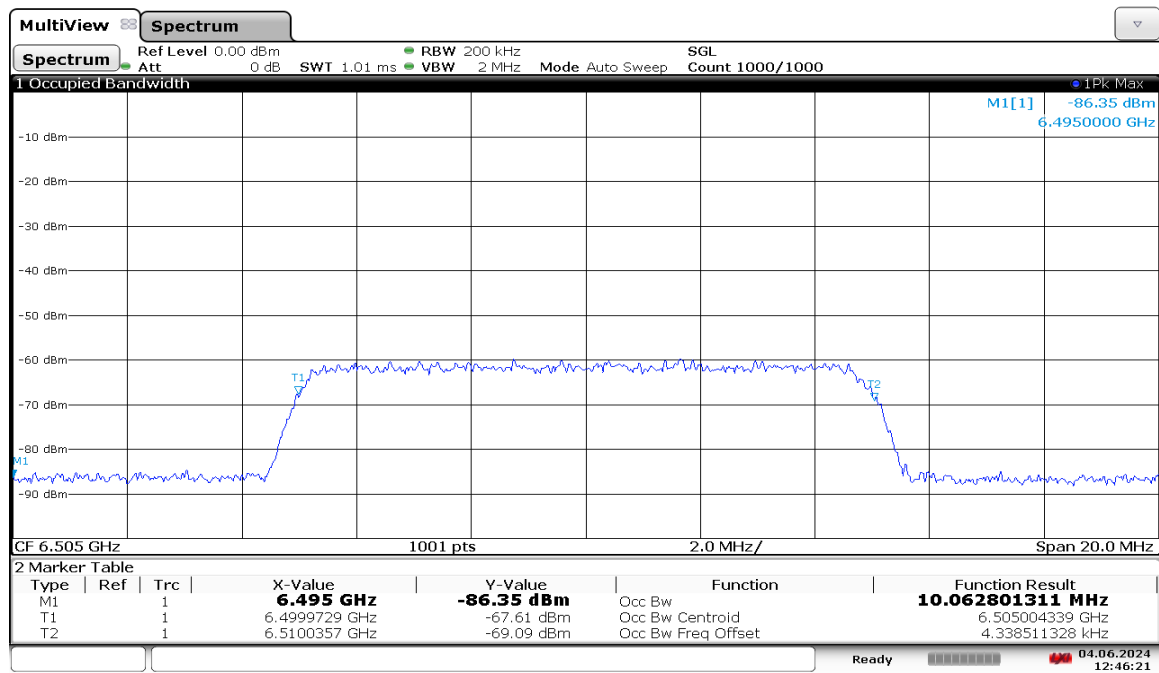
Plot 7-558. AWGN Signal – UNII 6 – 160MHz - Low

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 180 of 317

V 10.50.40 12/15/2021

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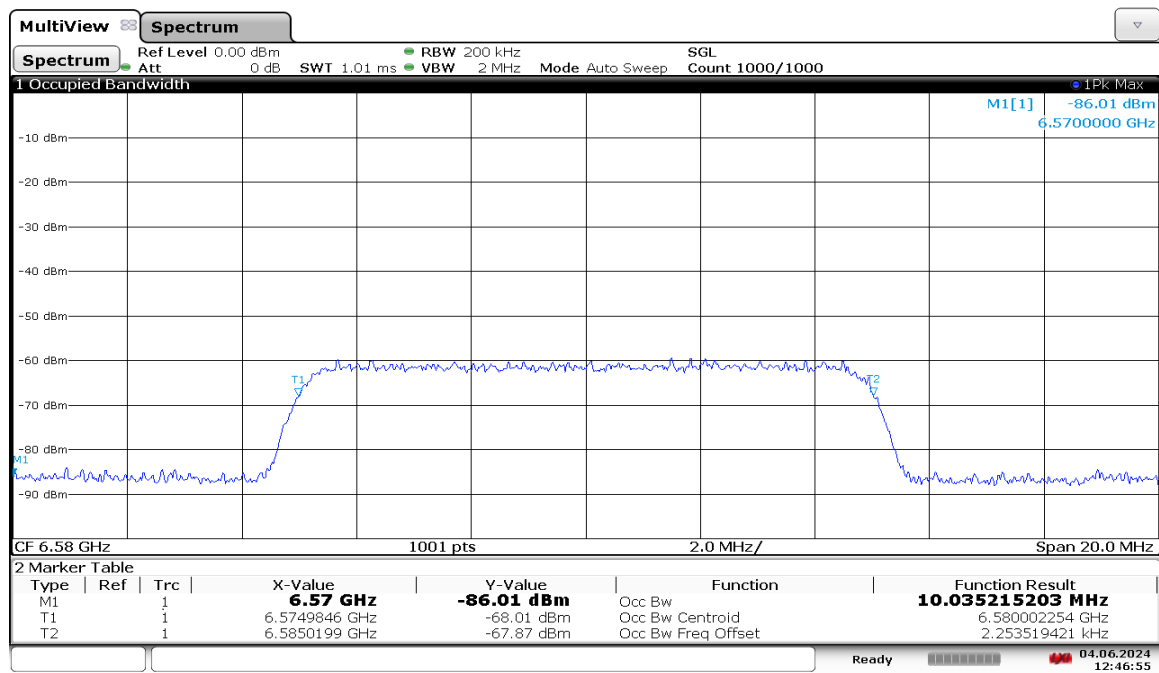
Element



12:46:21 04.06.2024

Plot 7-559. AWGN Signal – UNII 6 – 160MHz – Mid

Element



12:46:56 04.06.2024

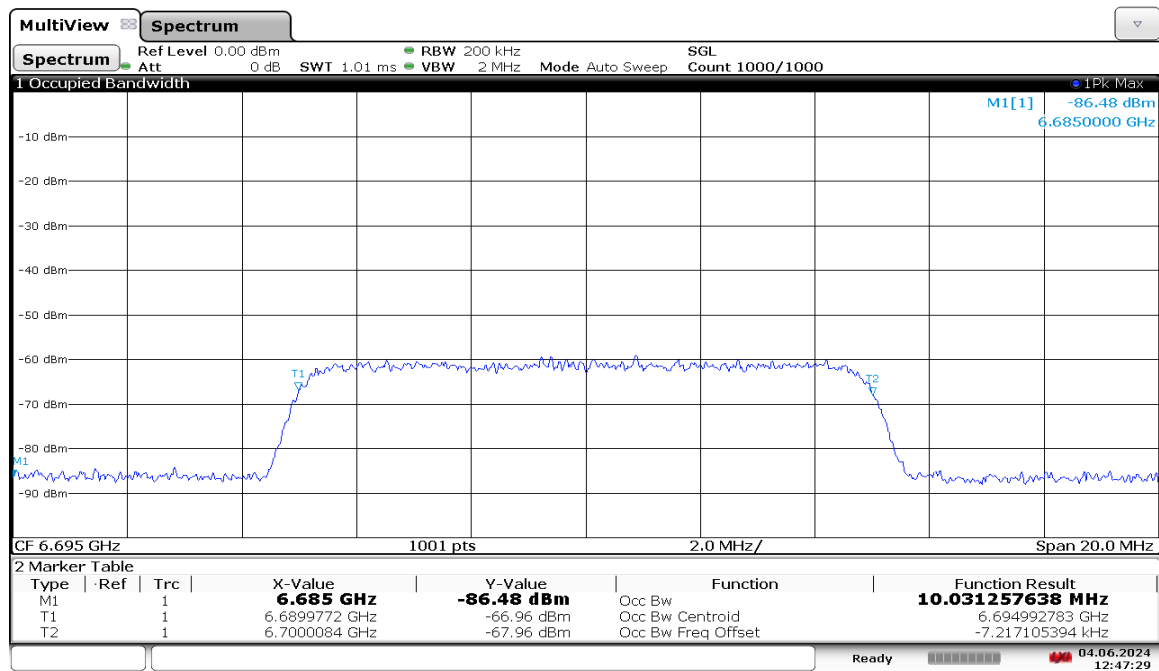
Plot 7-560. AWGN Signal – UNII 6 – 160MHz - High

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 181 of 317

V 10.50.40 12/15/2021

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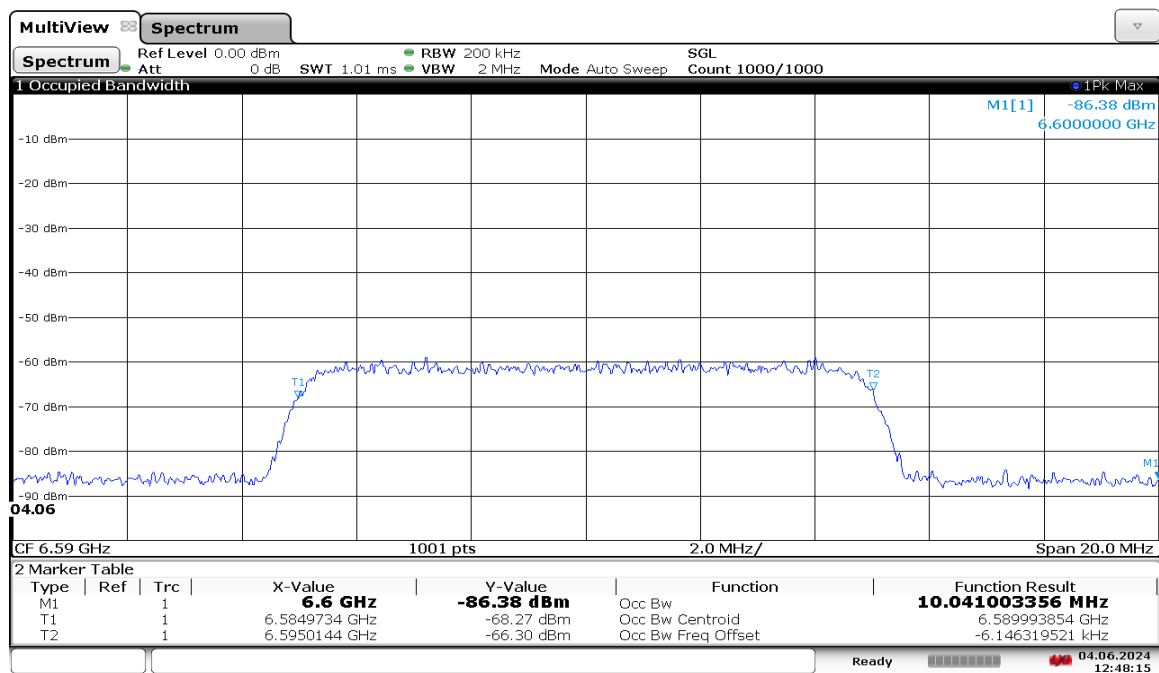
Element



12:47:29 04.06.2024

Plot 7-561. AWGN Signal – UNII 7 – 20MHz

Element



12:48:16 04.06.2024

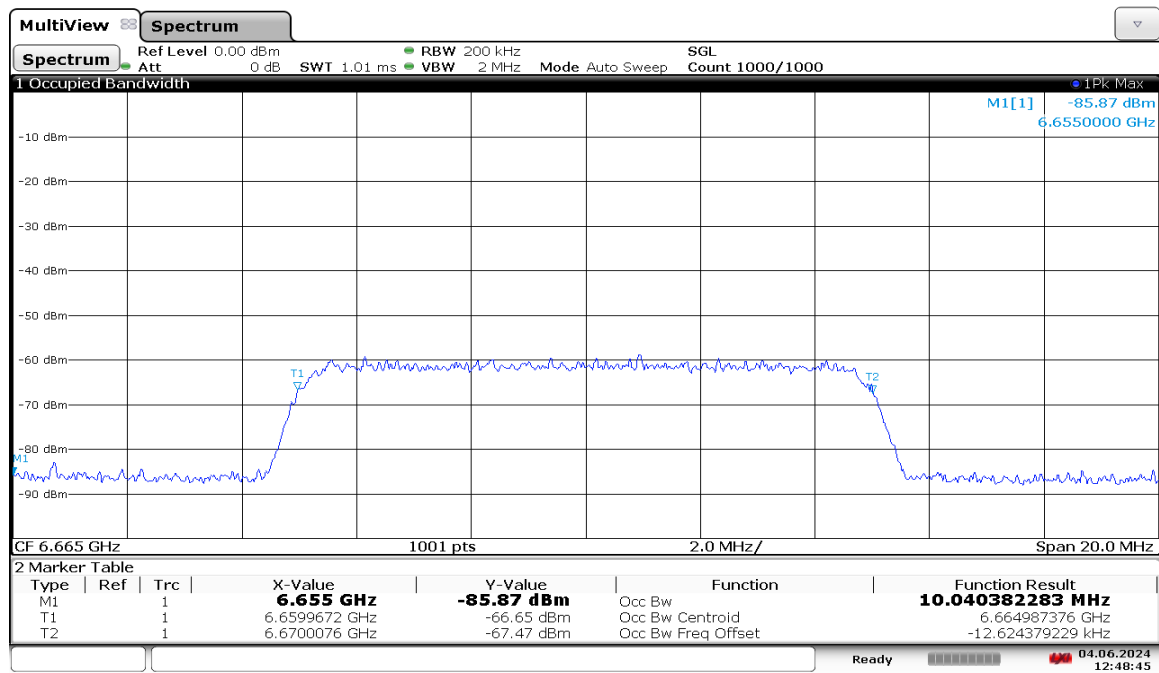
Plot 7-562. AWGN Signal – UNII 7 – 160MHz - Low

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 182 of 317

V 10.50.40 12/15/2021

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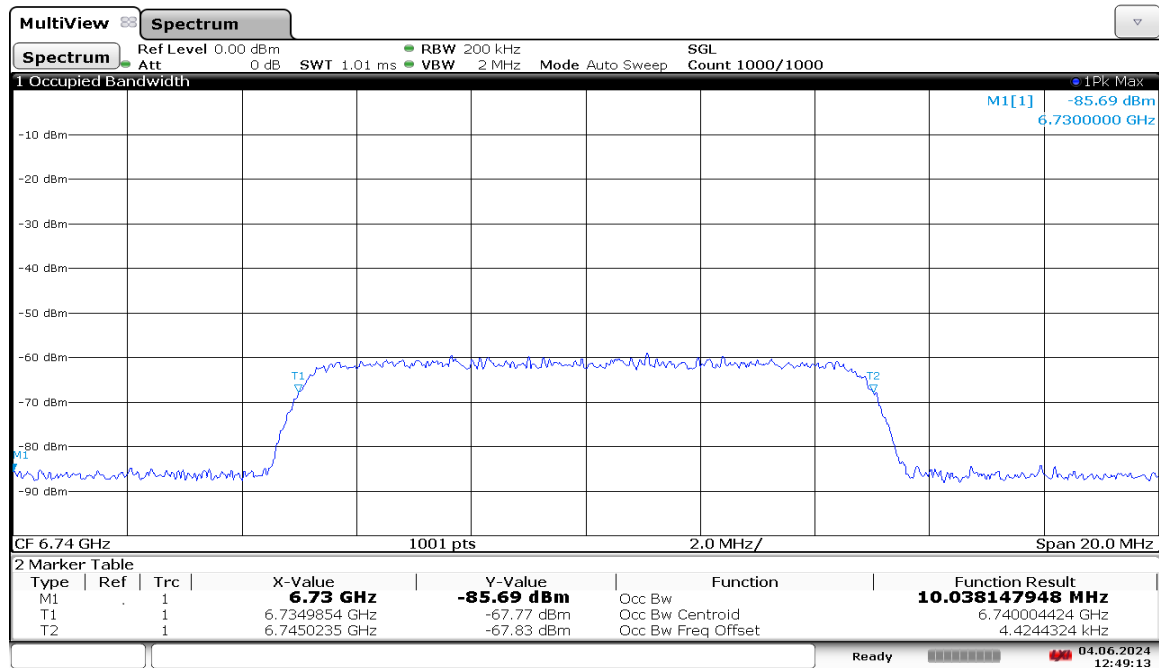
Element



12:48:45 04.06.2024

Plot 7-563. AWGN Signal – UNII 7 – 160MHz – Mid

Element



12:49:14 04.06.2024

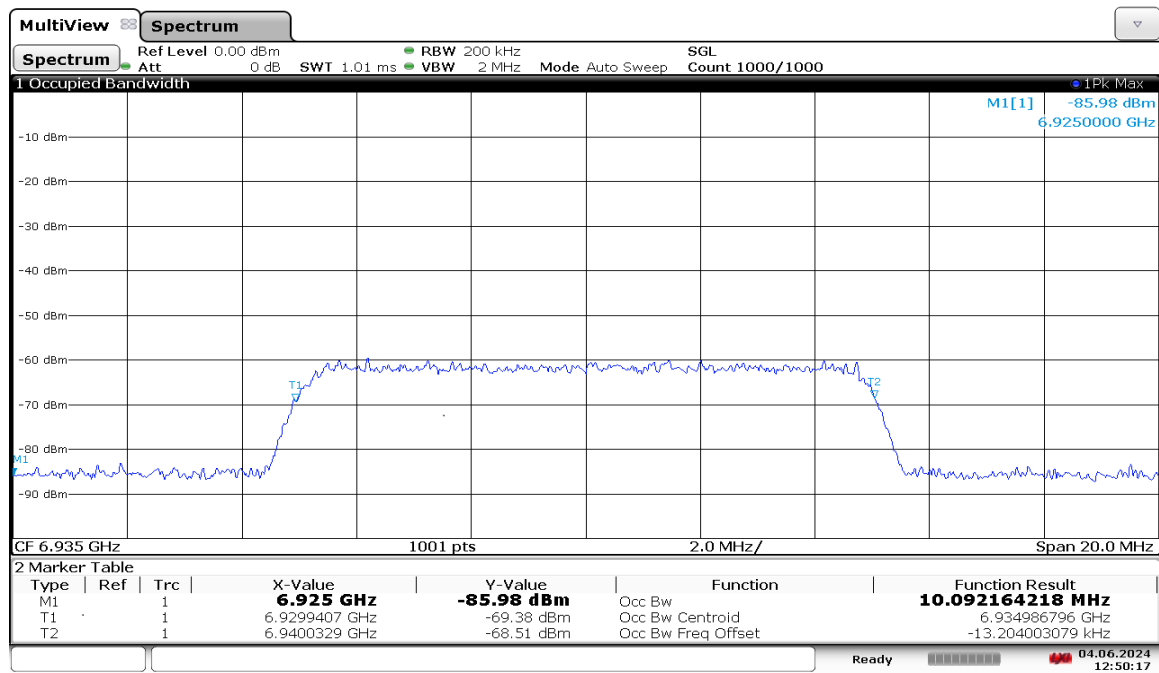
Plot 7-564. AWGN Signal – UNII 7 – 160MHz - High

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 183 of 317

V 10.50.40 12/15/2021

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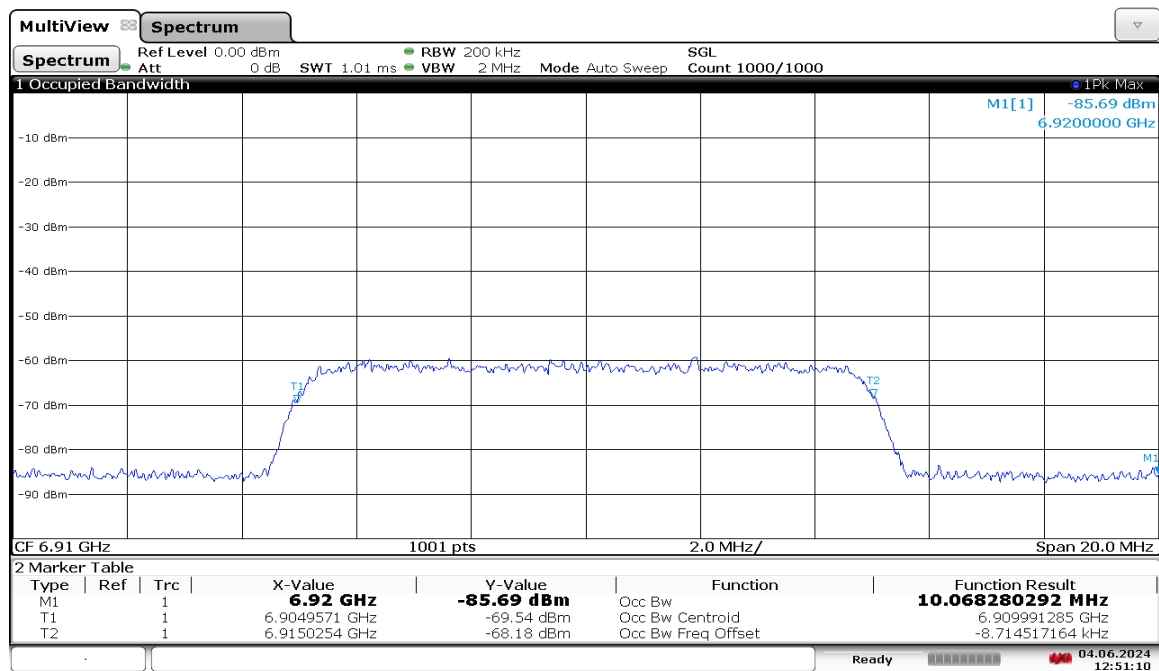
Element



12:50:18 04.06.2024

Plot 7-565. AWGN Signal – UNII 8 – 20MHz

Element



12:51:11 04.06.2024

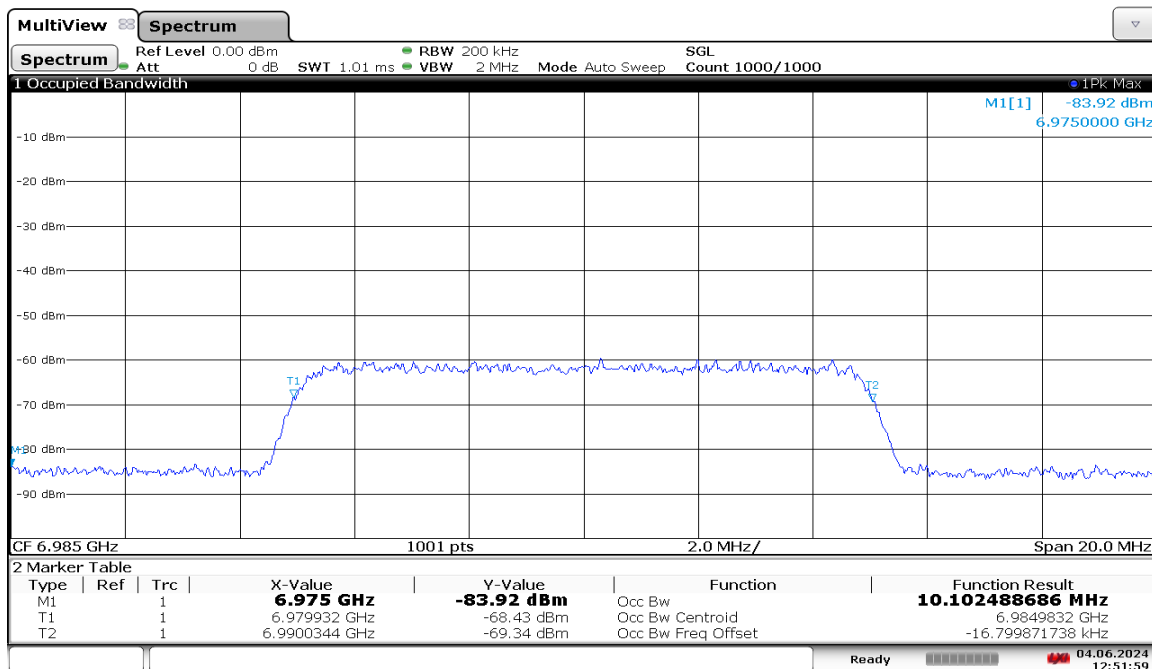
Plot 7-566. AWGN Signal – UNII 8 – 160MHz - Low

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 184 of 317

V 10.50.40 12/15/2021

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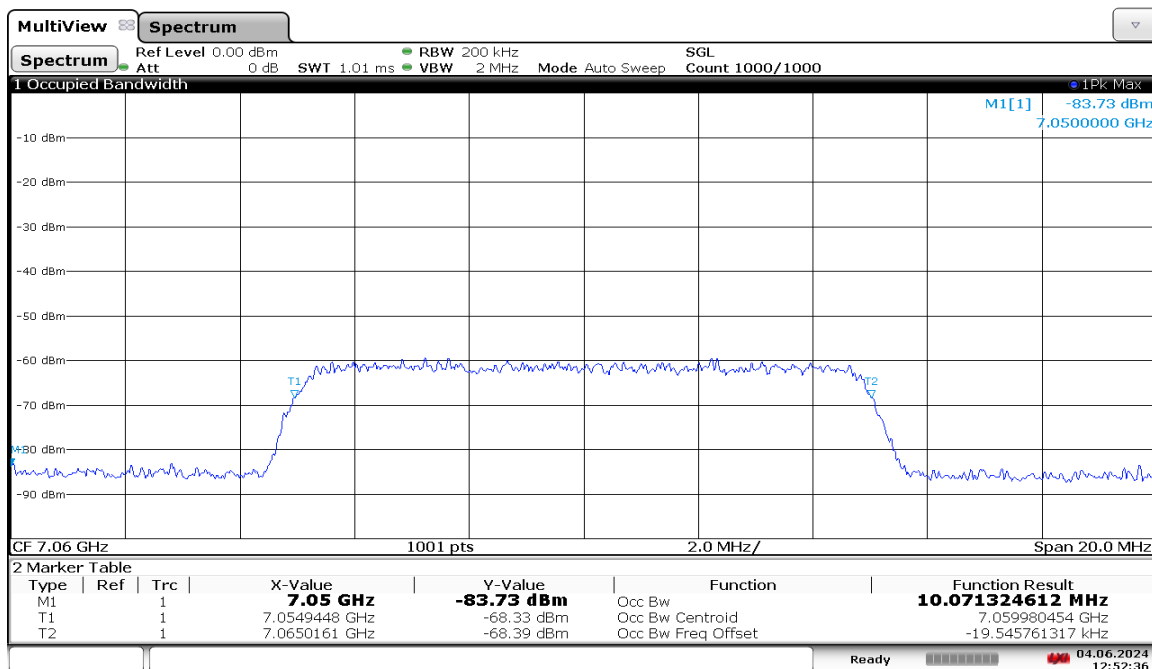
Element



12:52:00 04.06.2024

Plot 7-567. AWGN Signal – UNII 8 – 160MHz – Mid

Element



12:52:36 04.06.2024

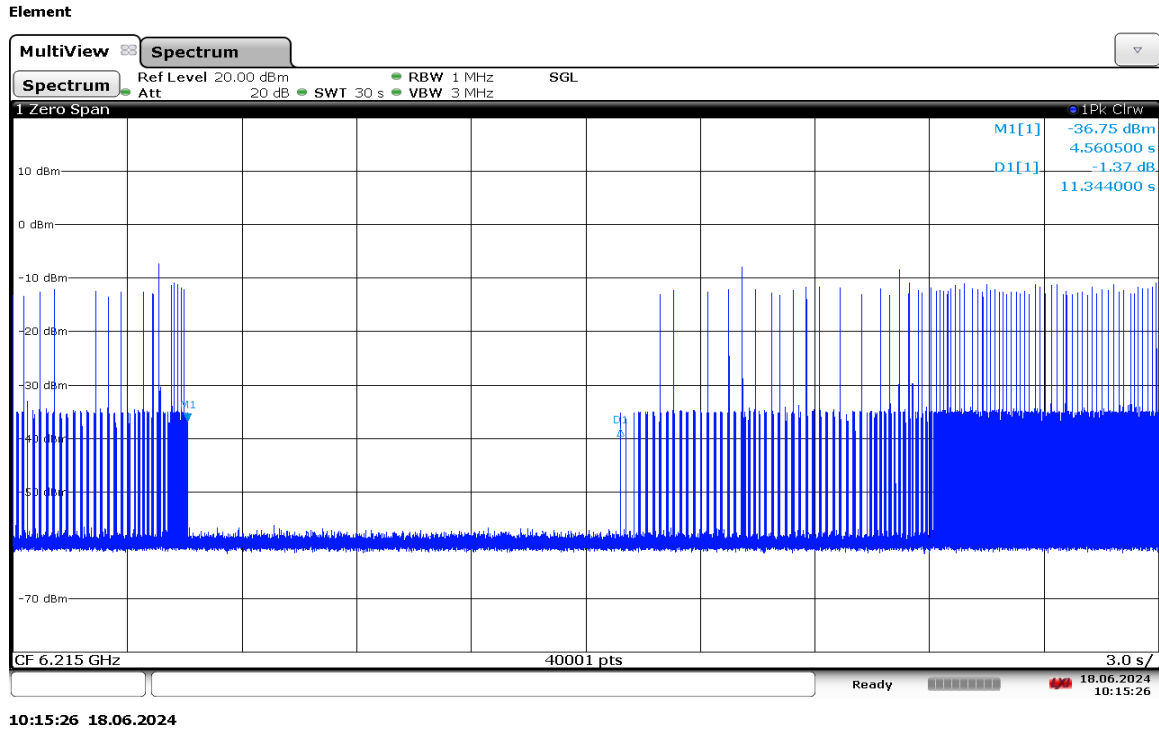
Plot 7-568. AWGN Signal – UNII 8 – 160MHz – High

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 185 of 317

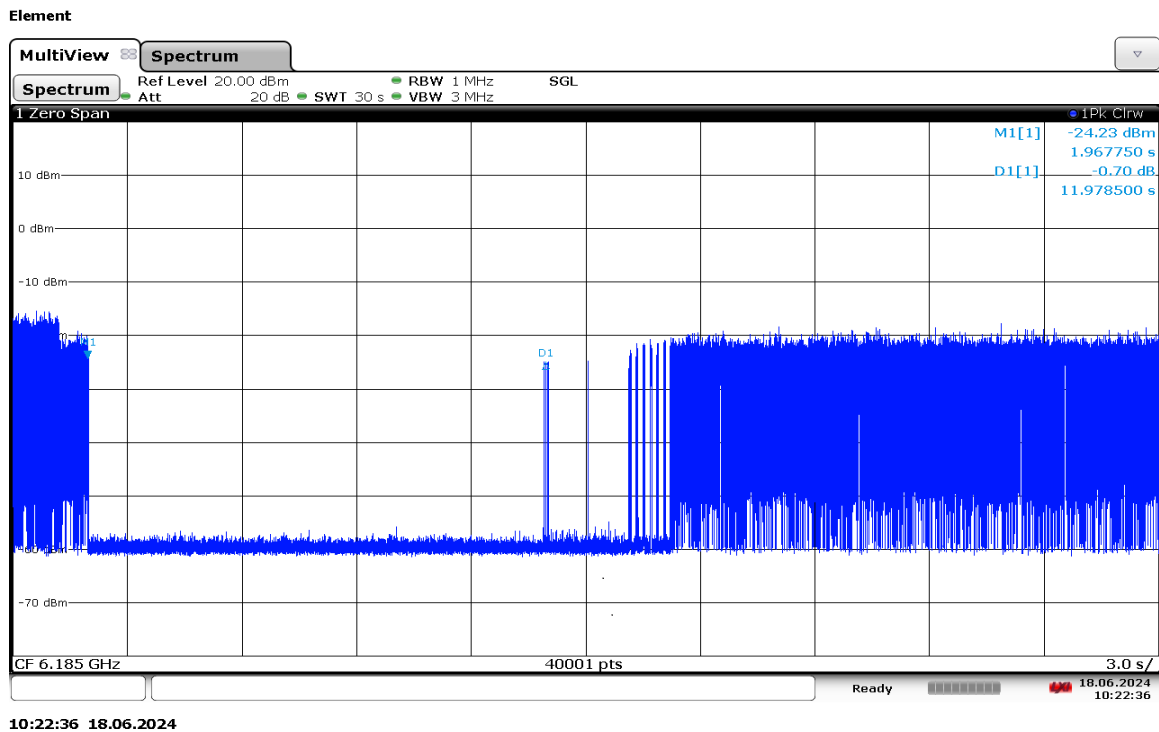
V 10.50.40 12/15/2021

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Contention-Based Protocol Timing Plots



Plot 7-569. LPI, Contention Based Protocol Timing Plot – UNII 5 – 20MHz Channel 53



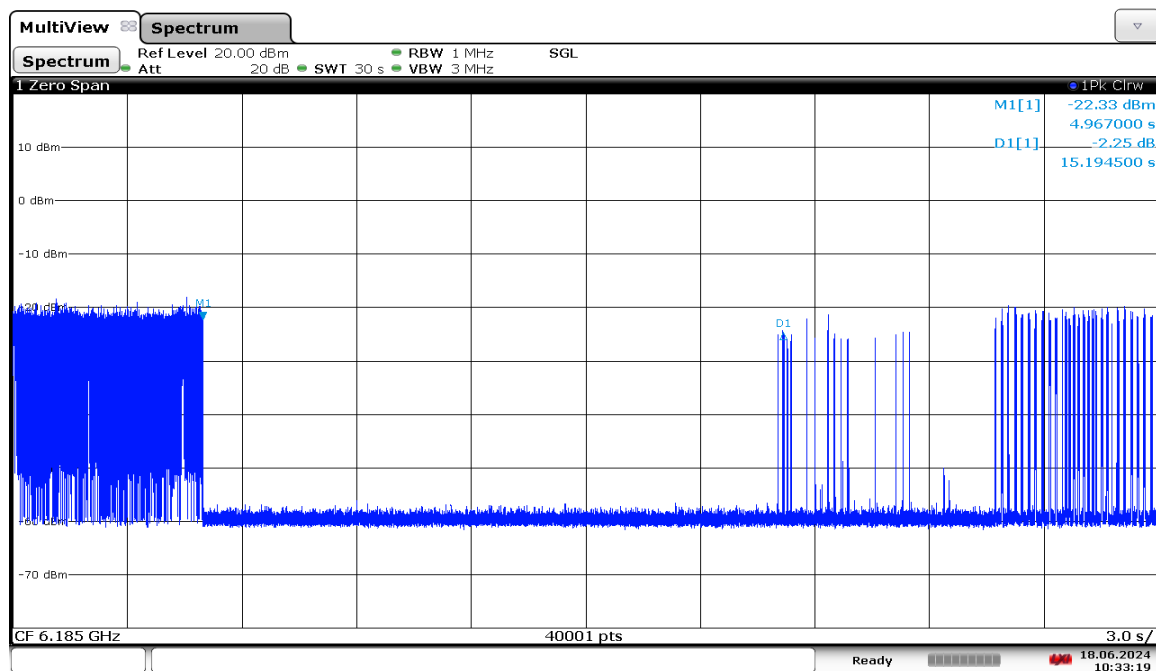
Plot 7-570. LPI, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – Low

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 186 of 317

V 10.50.40 12/15/2021

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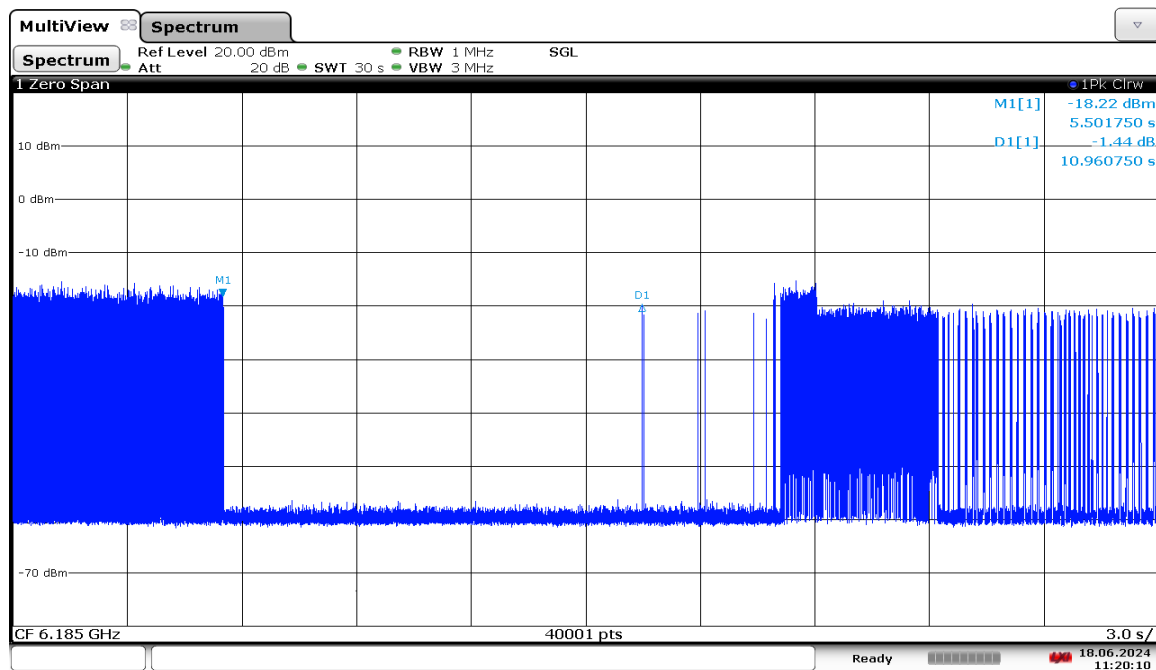
Element



10:33:20 18.06.2024

Plot 7-571. LPI, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – Mid

Element



11:20:10 18.06.2024

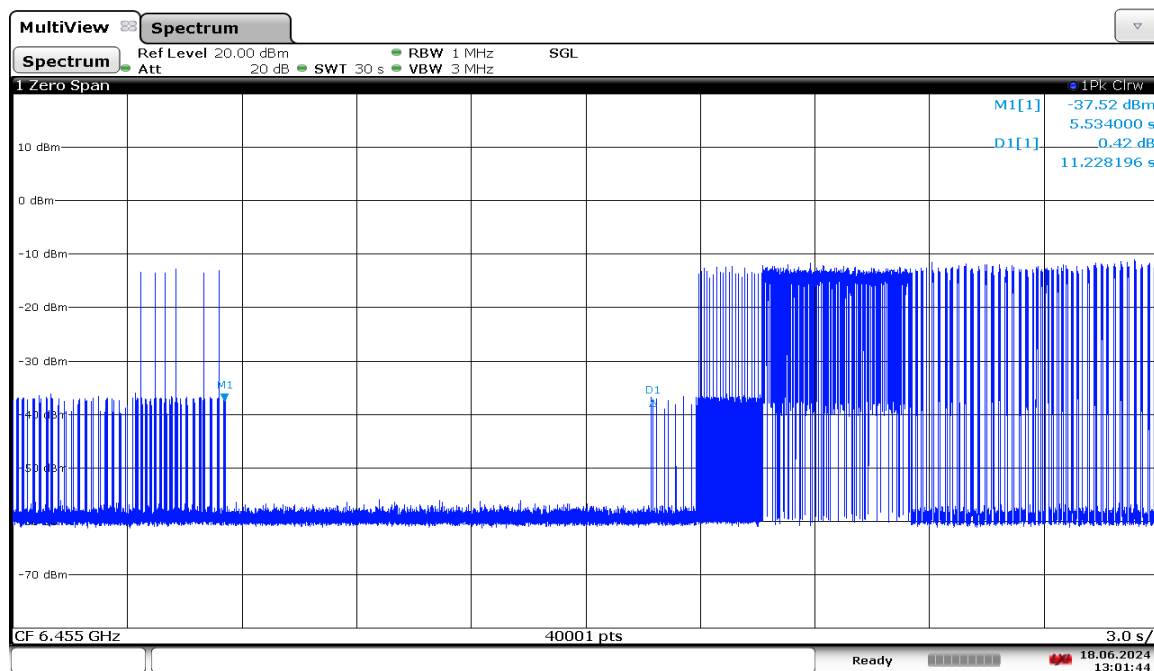
Plot 7-572. LPI, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – High

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 187 of 317

V 10.50.40 12/15/2021

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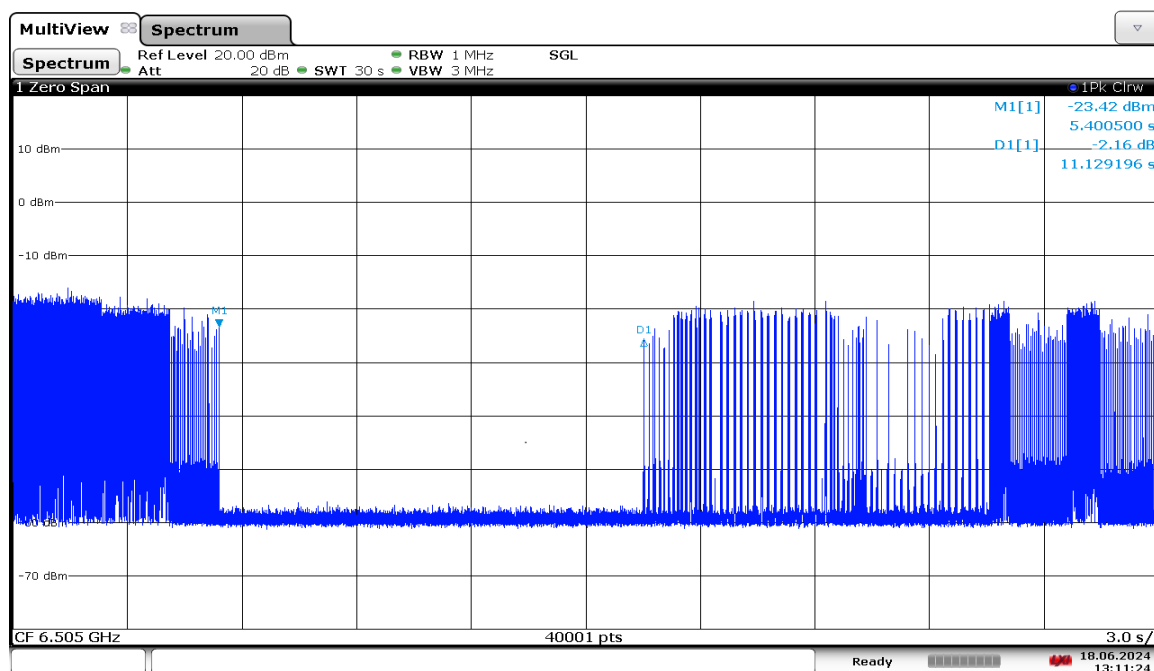
Element



13:01:44 18.06.2024

Plot 7-573. LPI, Contention Based Protocol Timing Plot – UNII 6 – 20MHz Channel 101

Element



13:11:25 18.06.2024

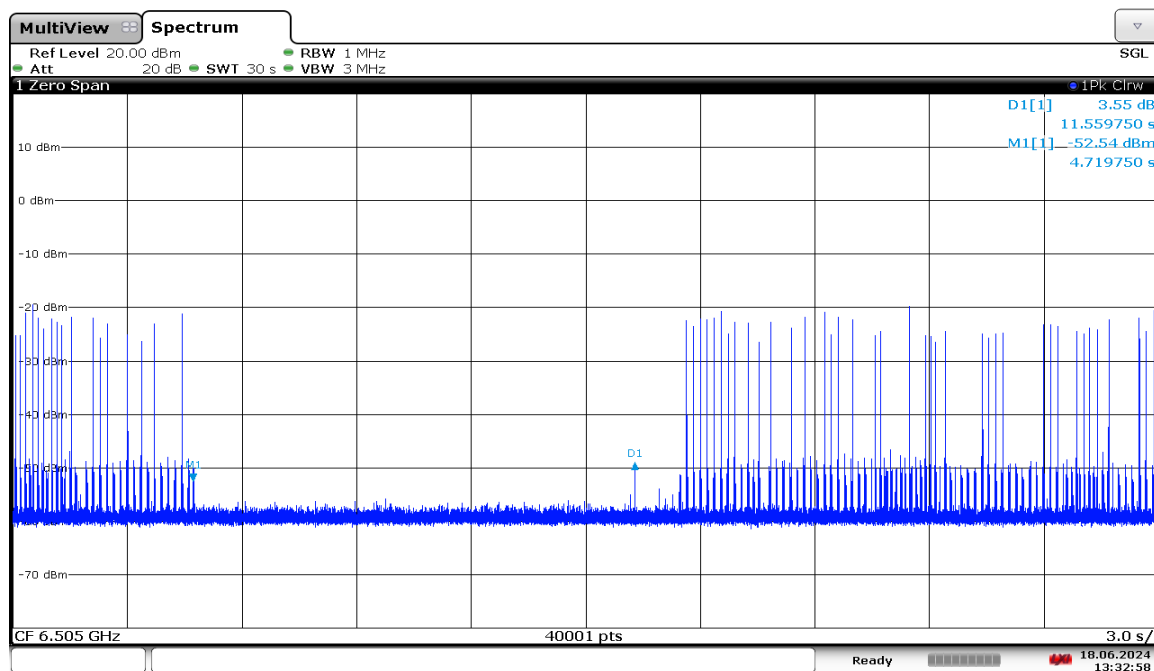
Plot 7-574. LPI, Contention Based Protocol Timing Plot – UNII 6 – 160MHz Channel 111 – Low

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 188 of 317

V 10.50.40 12/15/2021

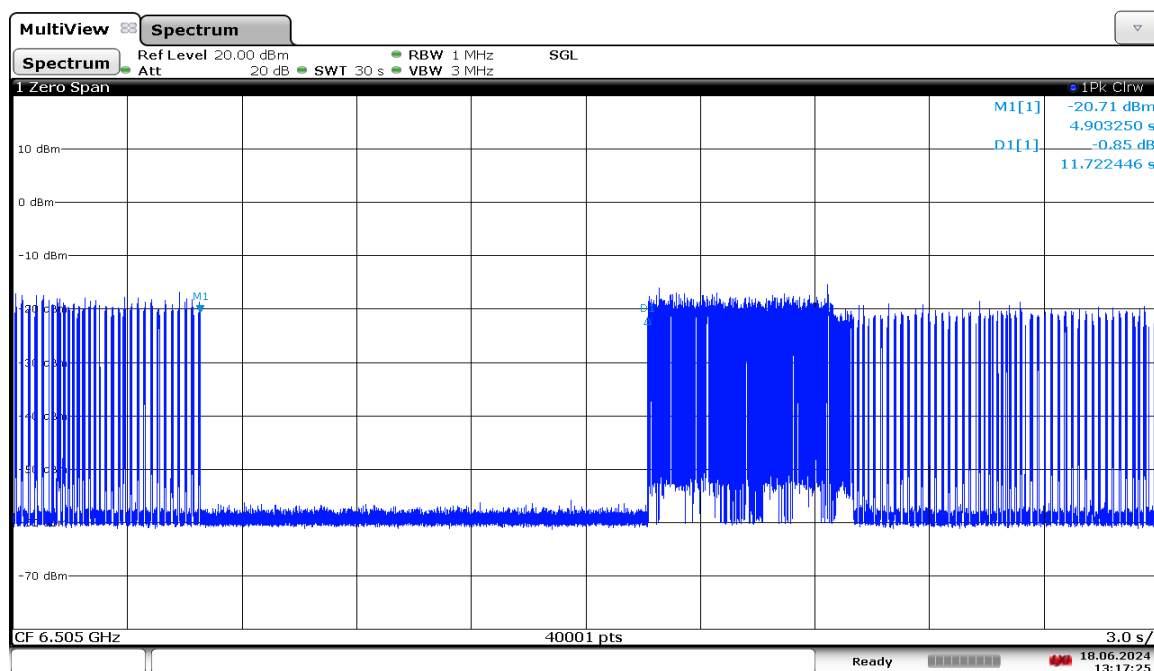
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Element



Plot 7-575. LPI, Contention Based Protocol Timing Plot – UNII 6 – 160MHz Channel 111 – Mid

Element



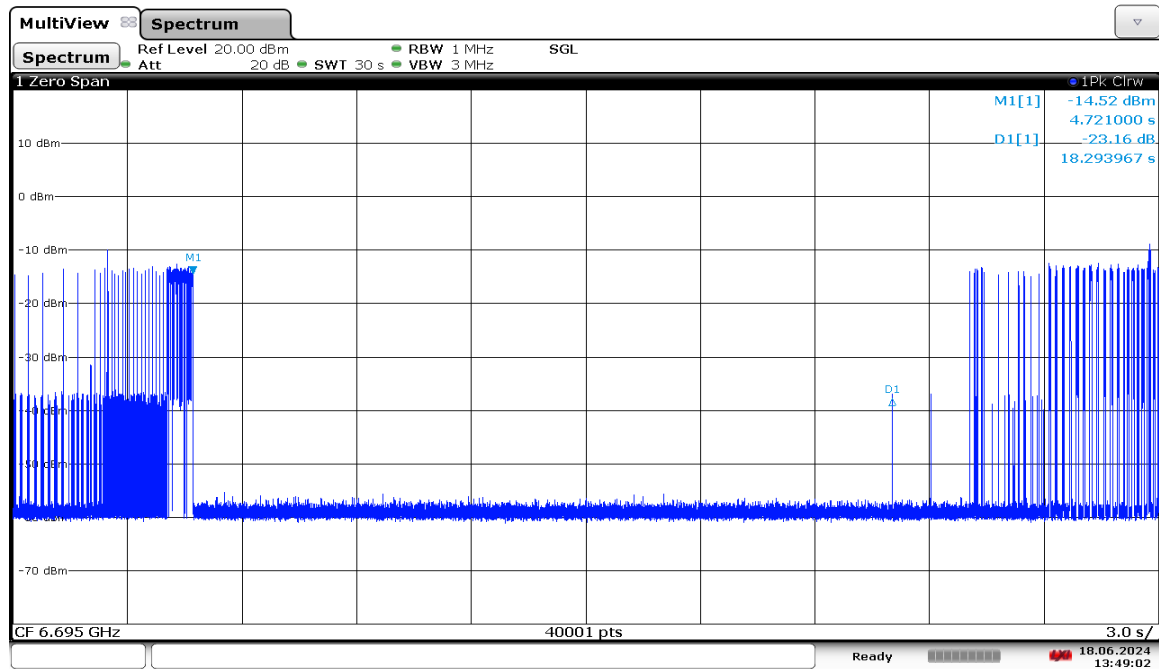
Plot 7-576. LPI, Contention Based Protocol Timing Plot – UNII 6 – 160MHz Channel 111 – High

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 189 of 317

V 10.50.40 12/15/2021

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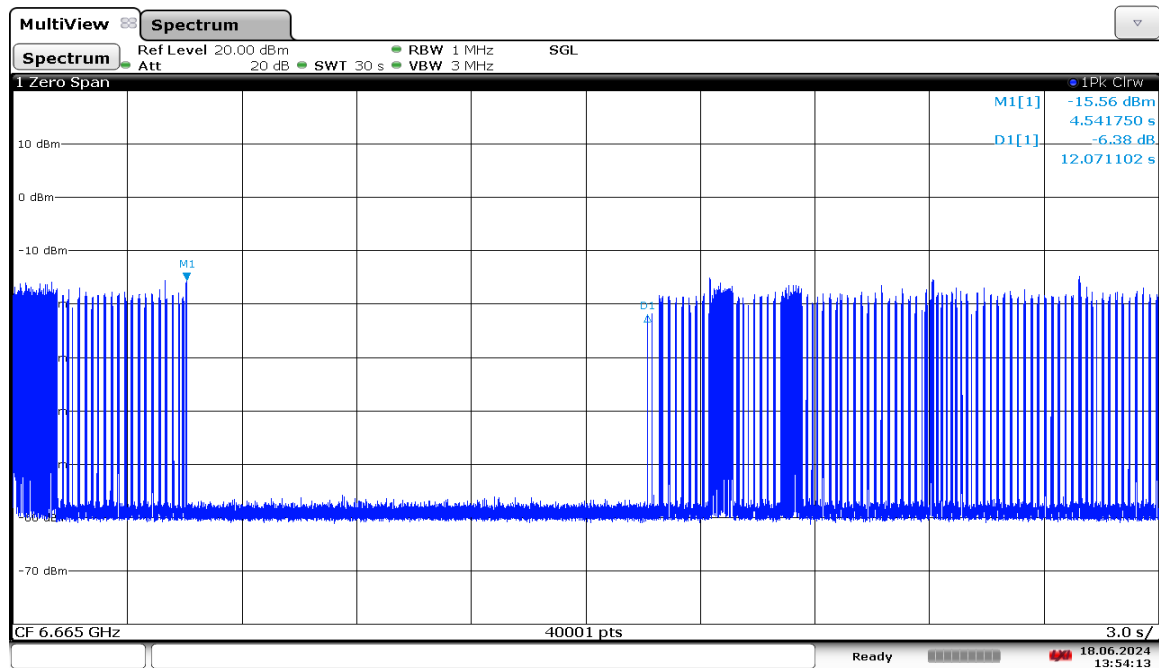
Element



13:49:03 18.06.2024

Plot 7-577. LPI, Contention Based Protocol Timing Plot – UNII 7 – 20MHz Channel 149

Element



13:54:14 18.06.2024

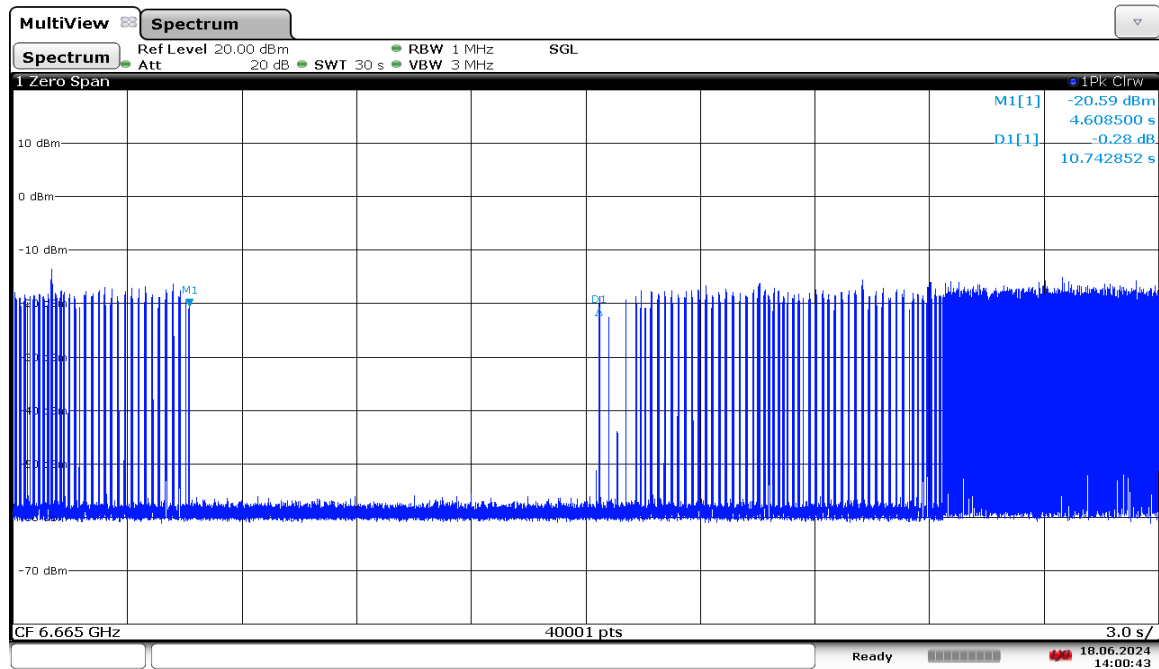
Plot 7-578. LPI, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Low

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 190 of 317

V 10.50.40 12/15/2021

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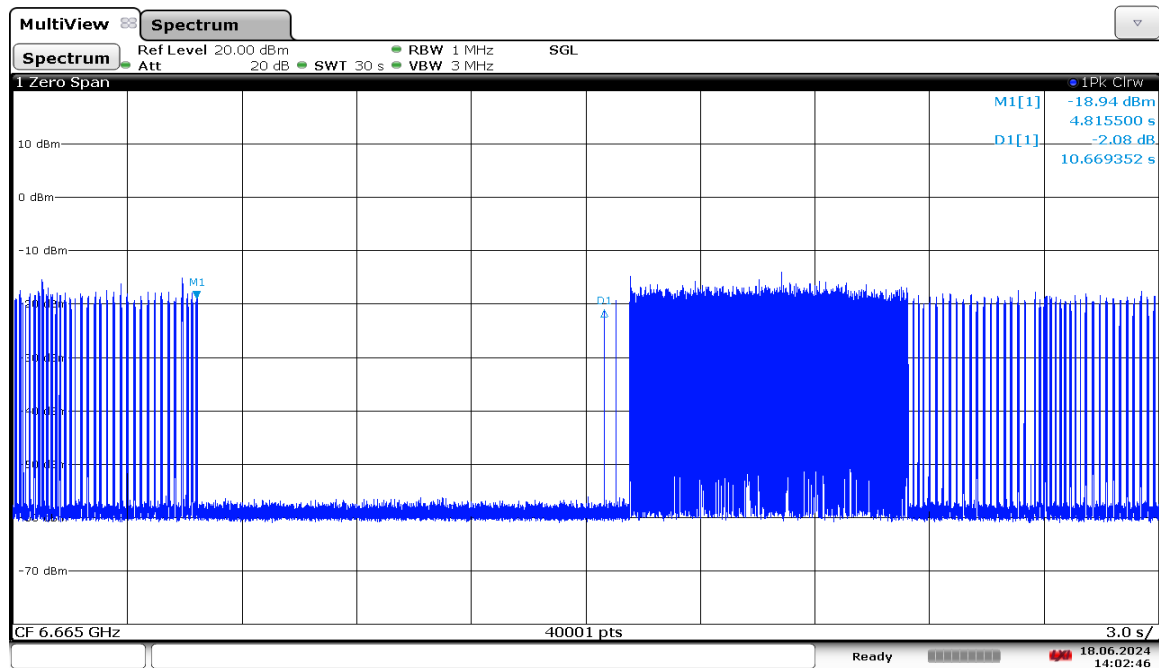
Element



14:00:44 18.06.2024

Plot 7-579. LPI, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Mid

Element



14:02:47 18.06.2024

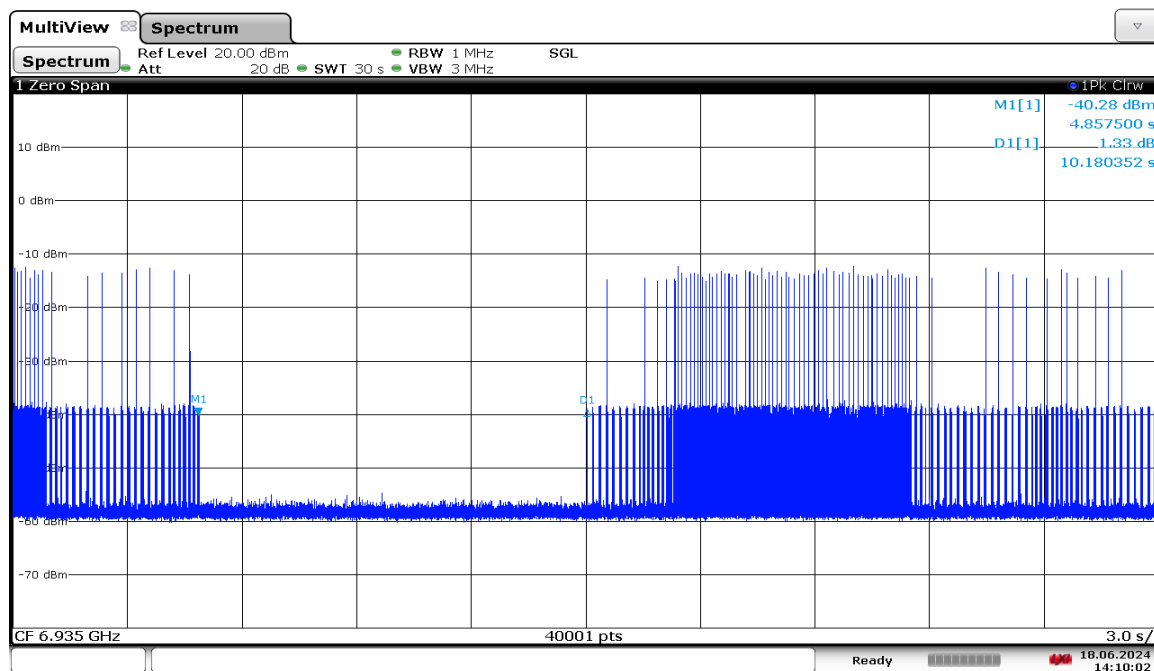
Plot 7-580. LPI, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – High

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 191 of 317

V 10.50.40 12/15/2021

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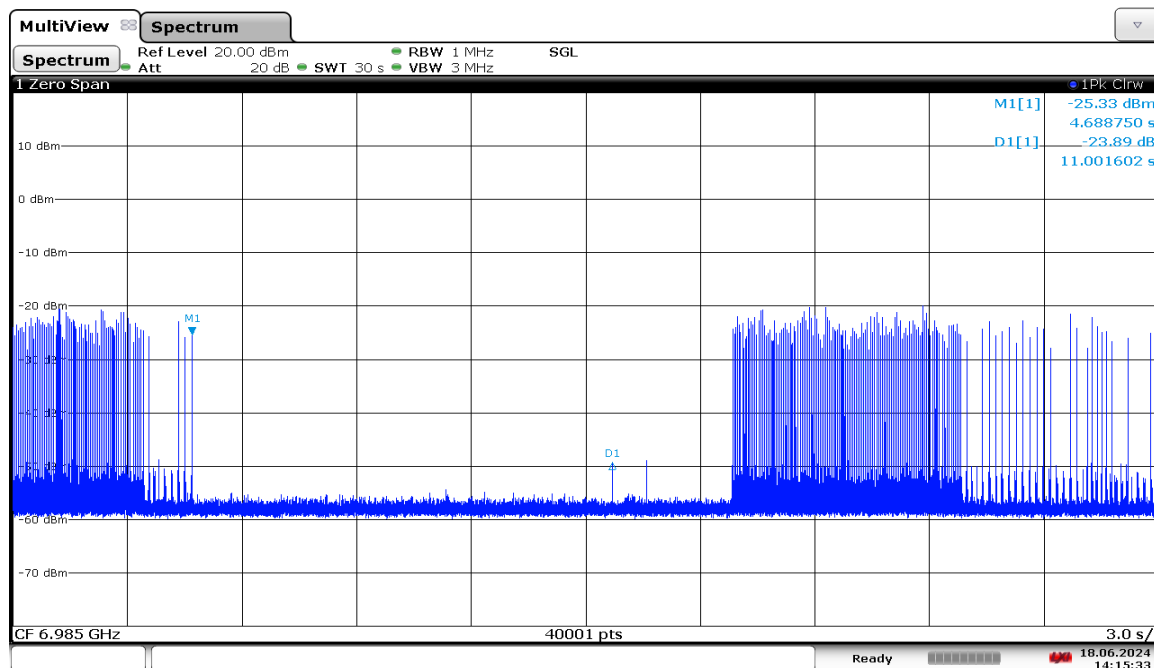
Element



14:10:03 18.06.2024

Plot 7-581. LPI, Contention Based Protocol Timing Plot – UNII 8 – 20MHz Channel 197

Element



14:15:33 18.06.2024

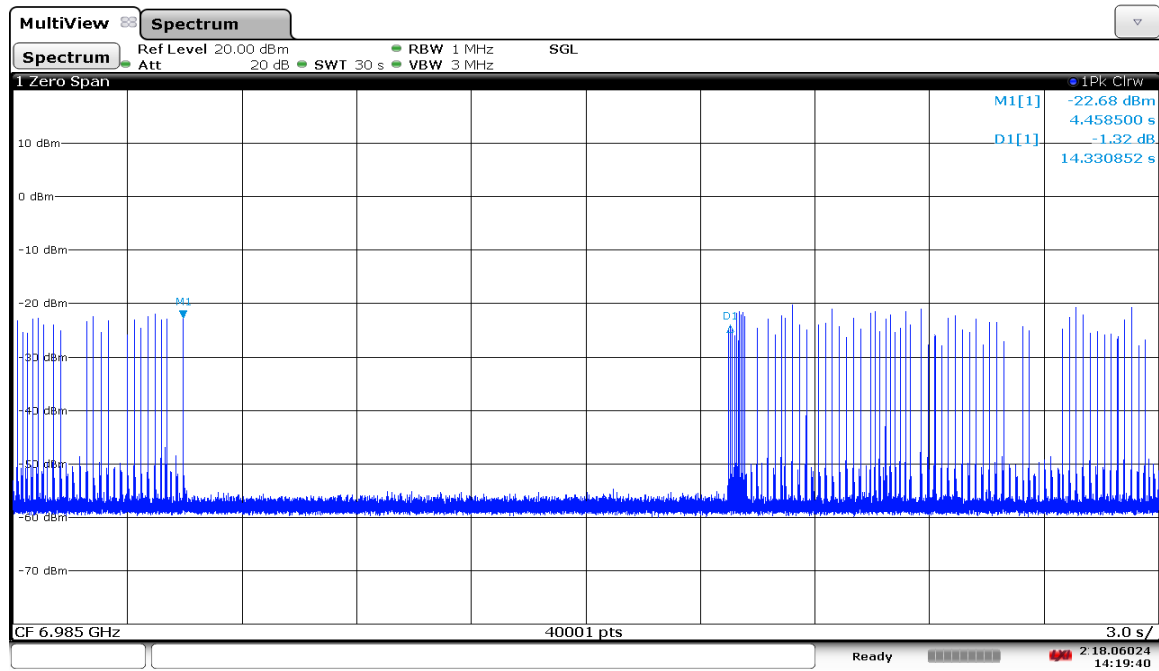
Plot 7-582. LPI, Contention Based Protocol Timing Plot – UNII 8 – 160MHz Channel 207 – Low

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 192 of 317

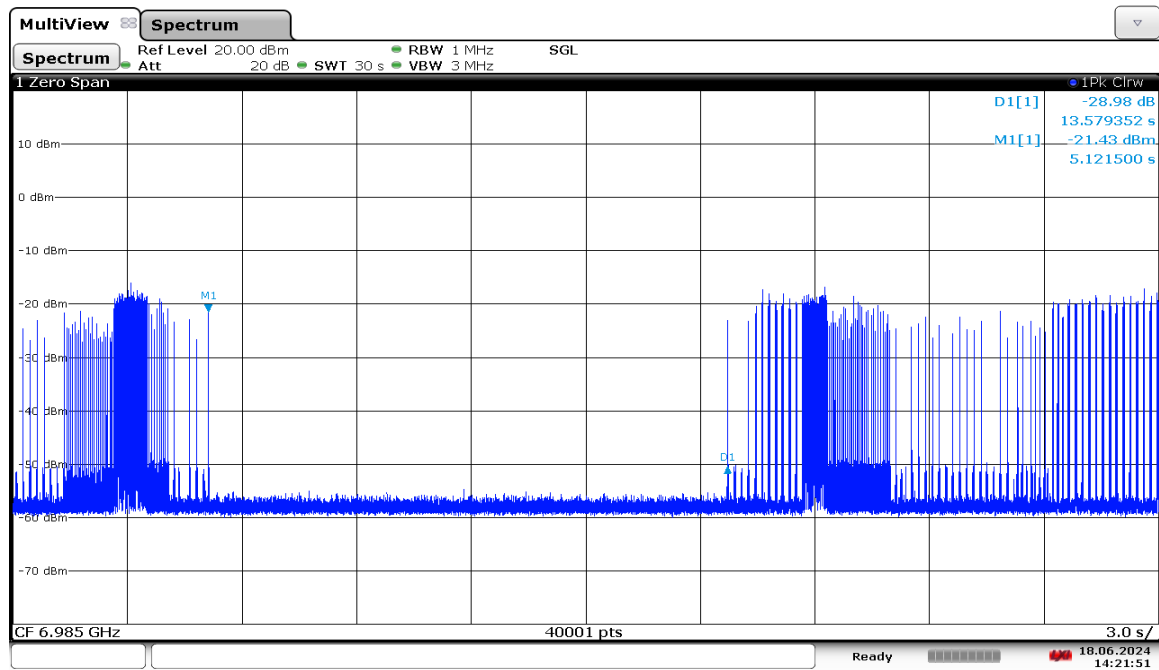
V 10.50.40 12/15/2021

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Element



Element

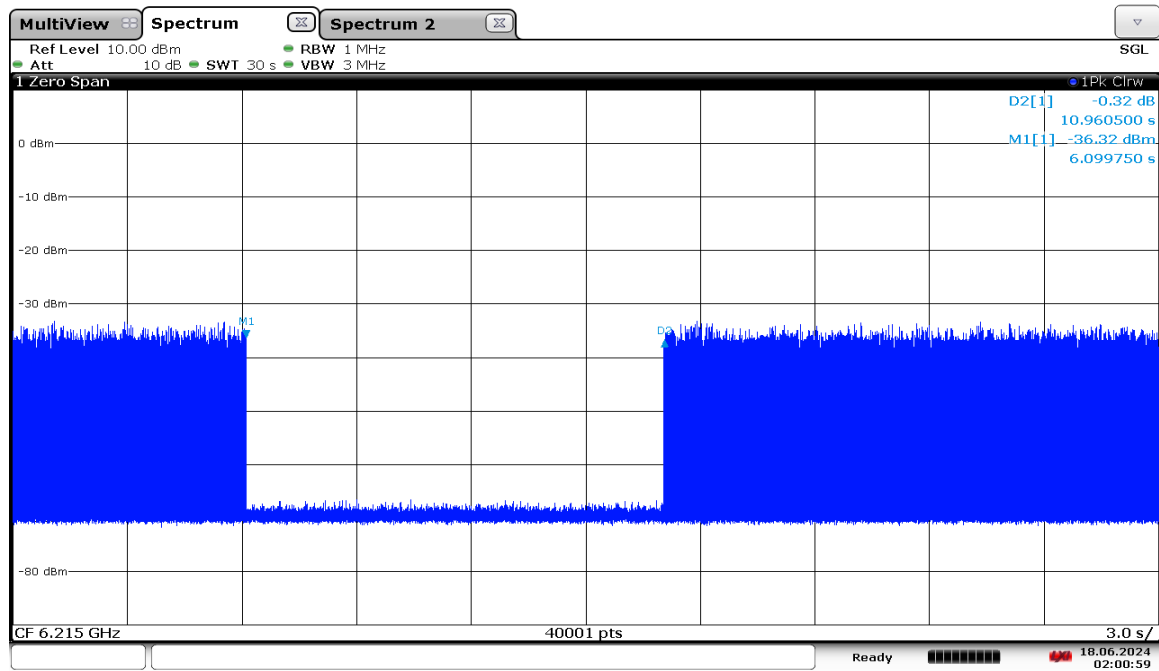


FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 193 of 317

V 10.50.40 12/15/2021

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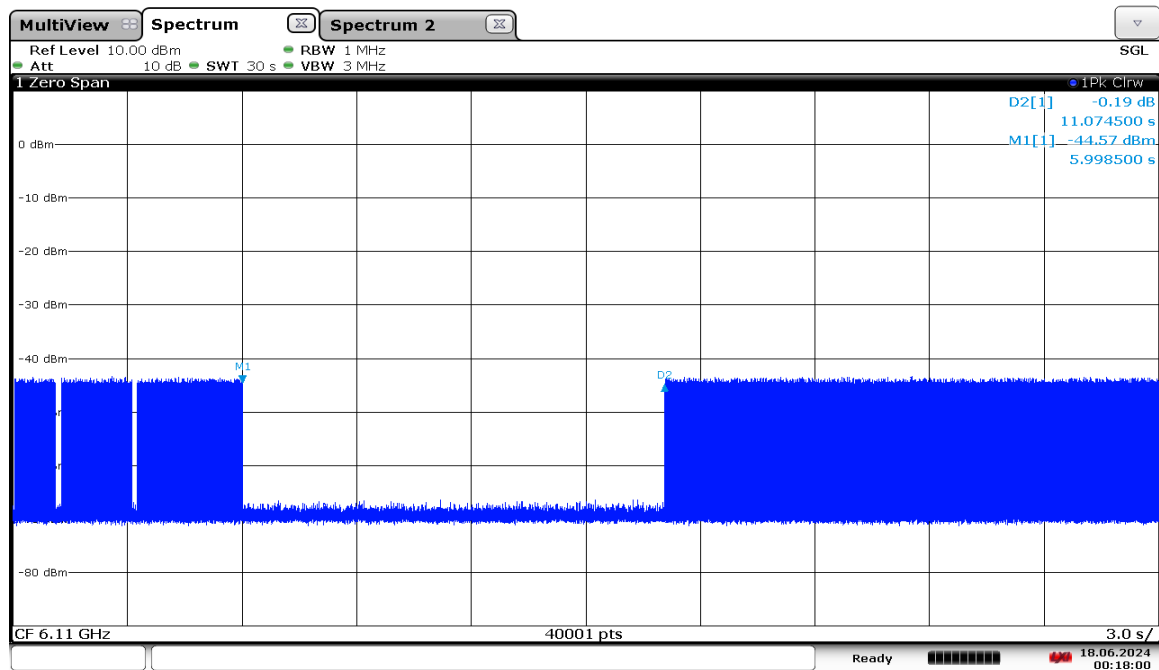
Element



02:00:59 18.06.2024

Plot 7-585. VLP, Contention Based Protocol Timing Plot – UNII 5 – 20MHz Channel 53

Element



00:18:01 18.06.2024

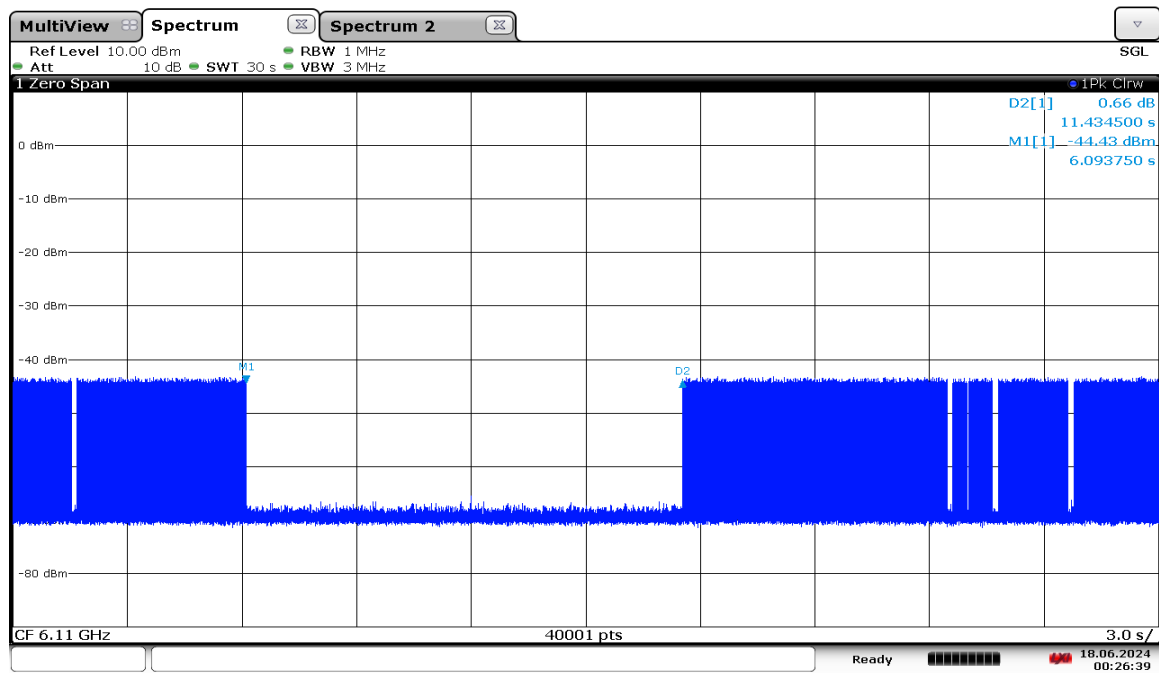
Plot 7-586. VLP, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – Low

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 194 of 317

V 10.50.40 12/15/2021

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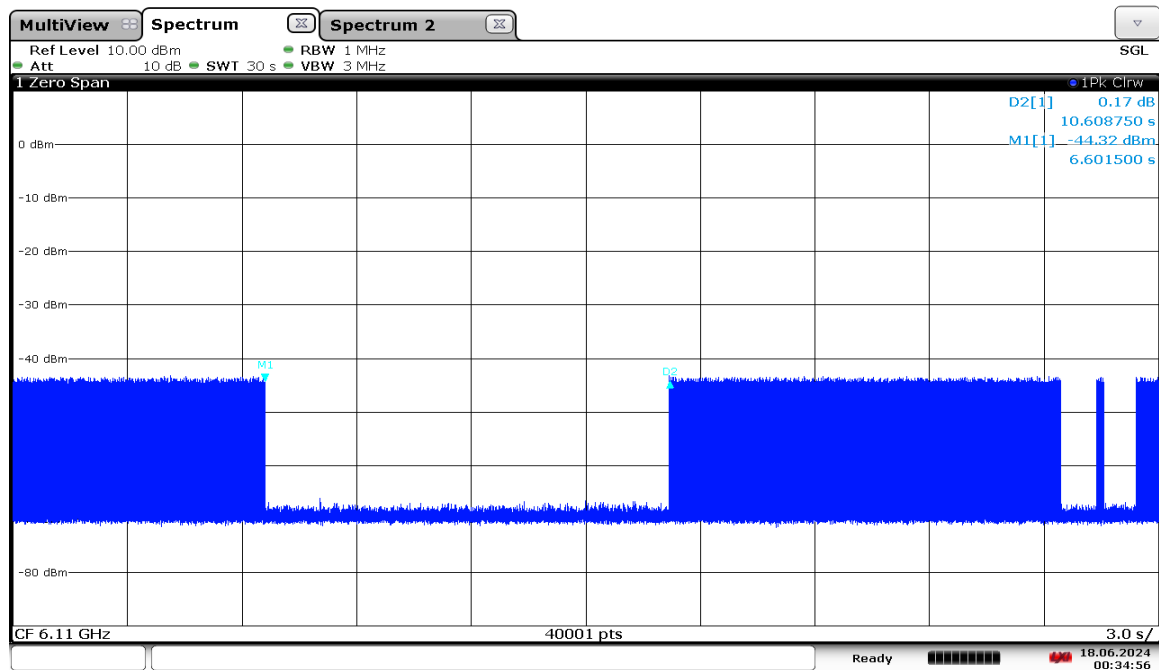
Element



00:26:40 18.06.2024

Plot 7-587. VLP, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – Mid

Element



00:34:57 18.06.2024

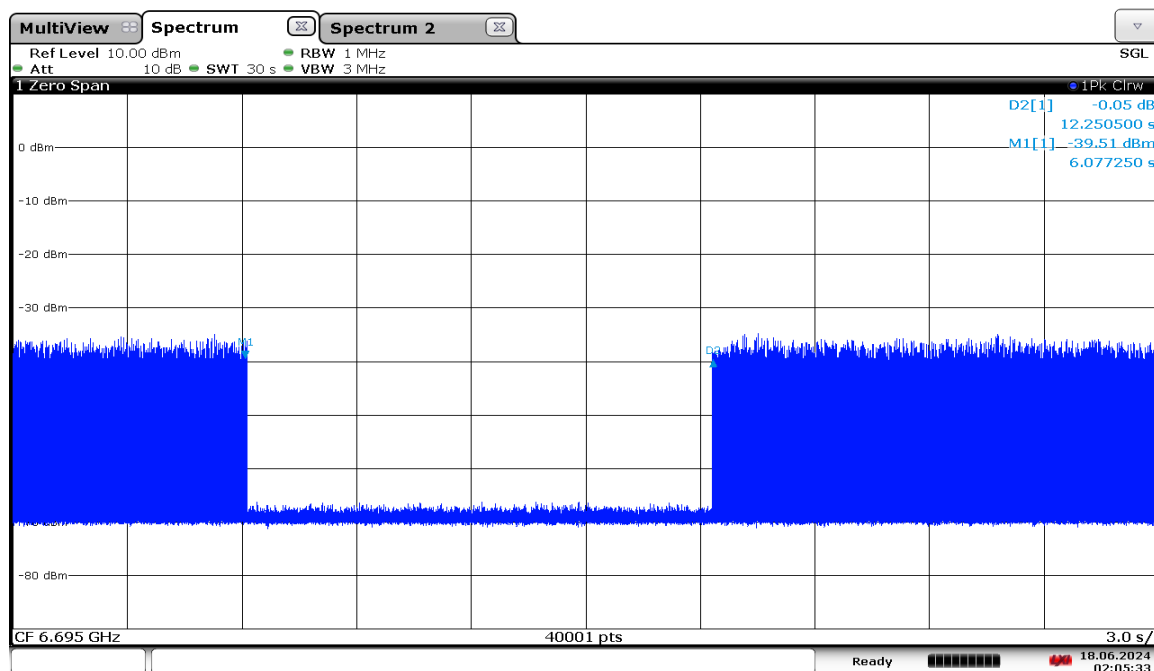
Plot 7-588. VLP, Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – High

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 195 of 317

V 10.50.40 12/15/2021

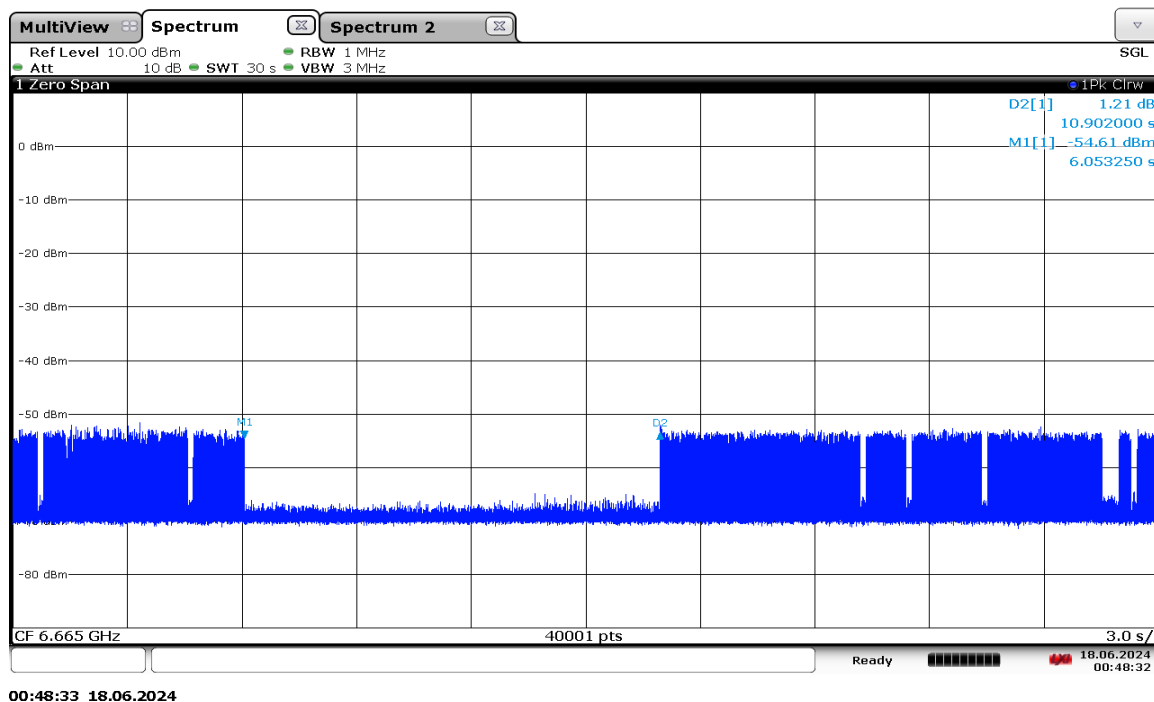
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Element



Plot 7-589. VLP, Contention Based Protocol Timing Plot – UNII 7 – 20MHz Channel 149

Element



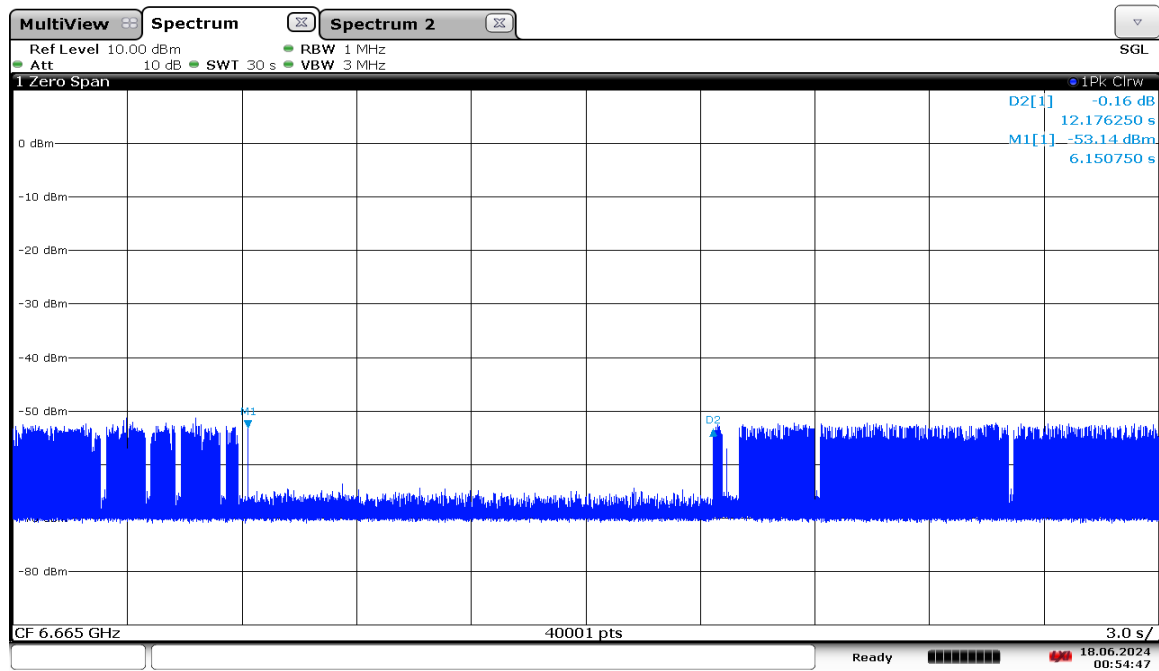
Plot 7-590. VLP, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Low

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 196 of 317

V 10.50.40 12/15/2021

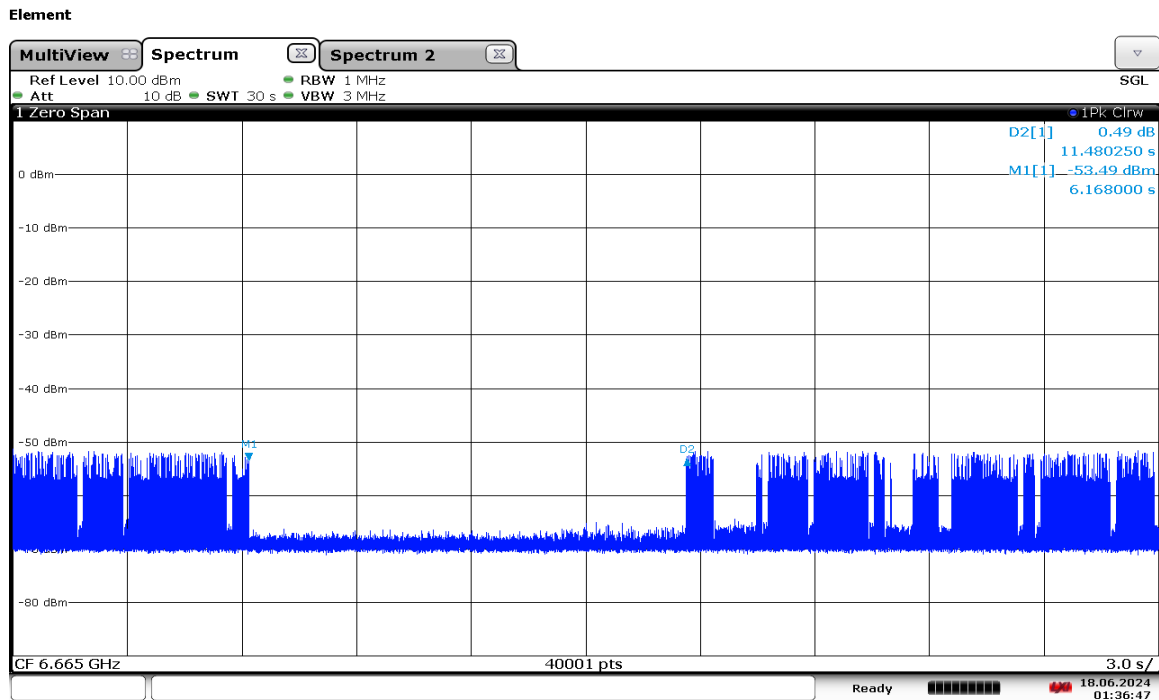
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Element



00:54:47 18.06.2024

Plot 7-591. VLP, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Mid

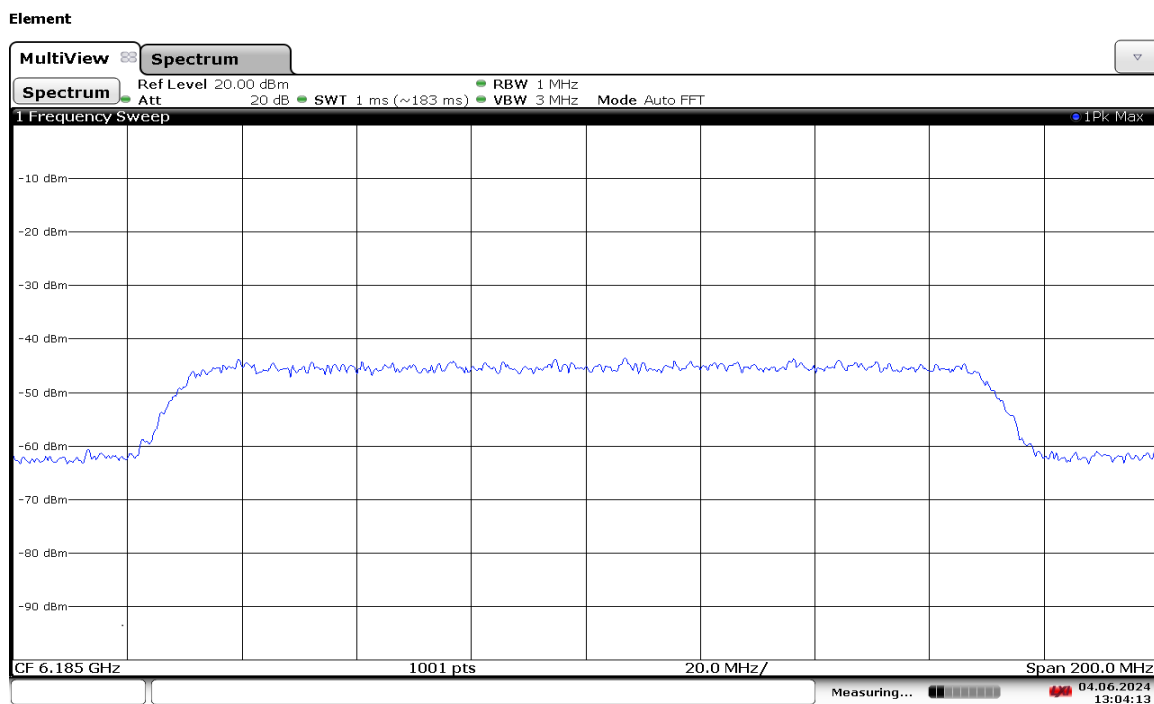


01:36:48 18.06.2024

Plot 7-592. VLP, Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – High

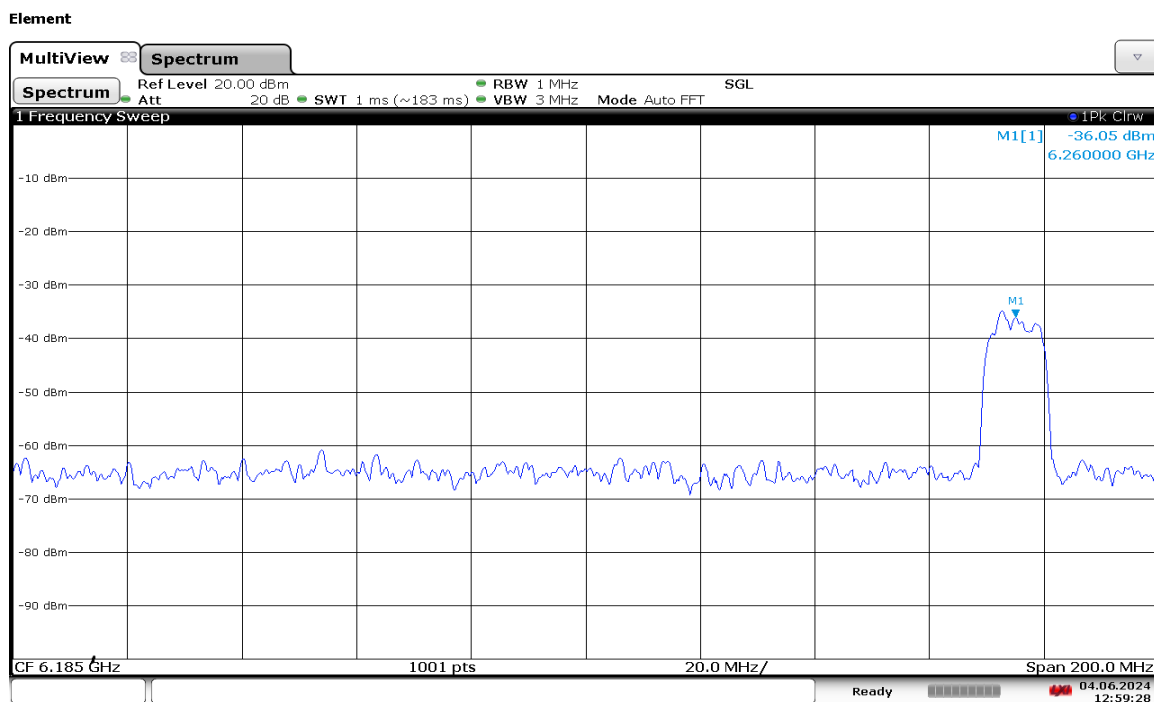
FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-24-R2.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 197 of 317

CBP Bandwidth Reduction Plots



13:04:14 04.06.2024

Plot 7-593. 160MHz Bandwidth – Before AWGN Signal Injected – Channel 47



12:59:29 04.06.2024

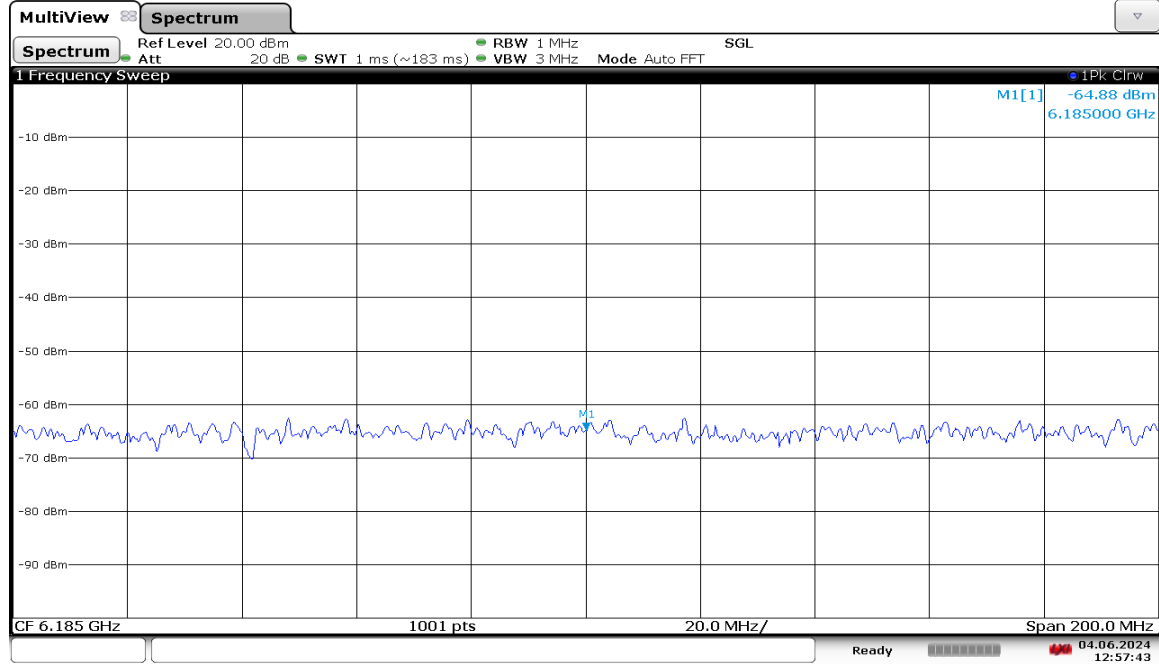
Plot 7-594. 160MHz Bandwidth – AWGN Signal Injected at Low End – Channel 47

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 198 of 317

V 10.50.40 12/15/2021

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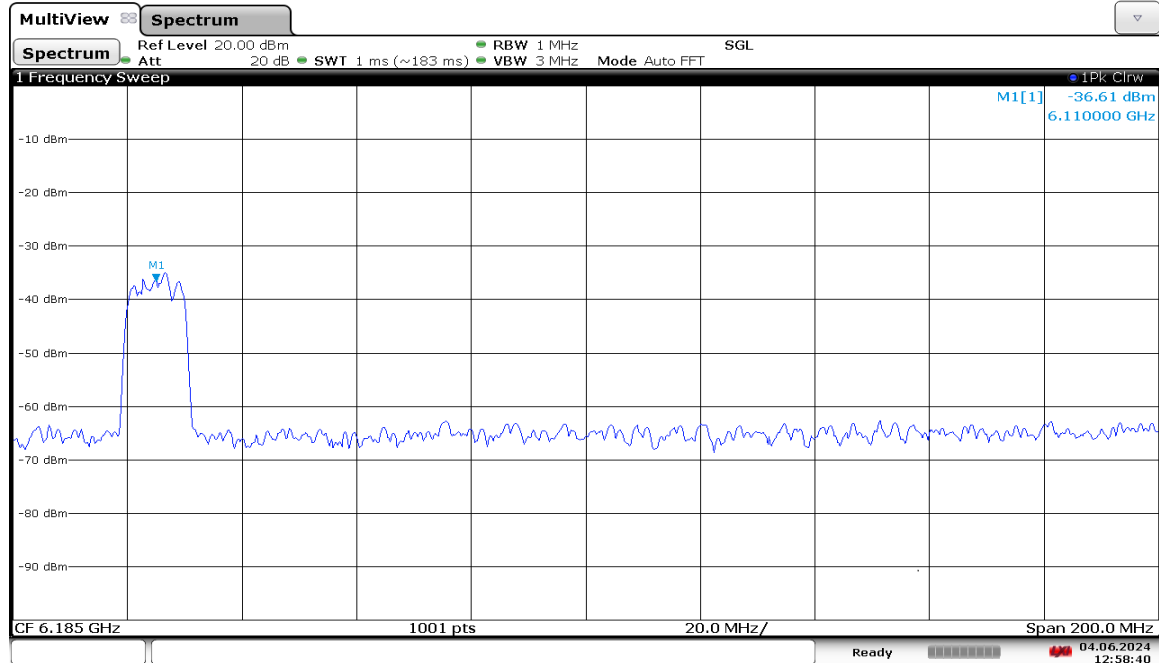
Element



12:57:44 04.06.2024

Plot 7-595. 160MHz Bandwidth – AWGN Signal Injected at Center – Channel 47

Element



12:58:41 04.06.2024

Plot 7-596. 160MHz Bandwidth – AWGN Signal Injected at High End – Channel 47

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 199 of 317

V 10.50.40 12/15/2021

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7.7 Transmit Power Control (TPC)

§15.407(d.10)

Test Overview and Limit

Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.6
KDB 789033 D02 v02r01 – Section F

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Set span to encompass the entire 99% OBW of the signal.
3. Set sweep trigger to “free run.”
4. Set RBW = 1 MHz.
5. Set VBW $\geq$ 3 MHz
6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
7. Sweep time $\leq (\text{number of points in sweep}) \times T$, where T is defined
8. Detector = power averaging (rms).
9. Trace mode = max hold.
10. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

Test Setup

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

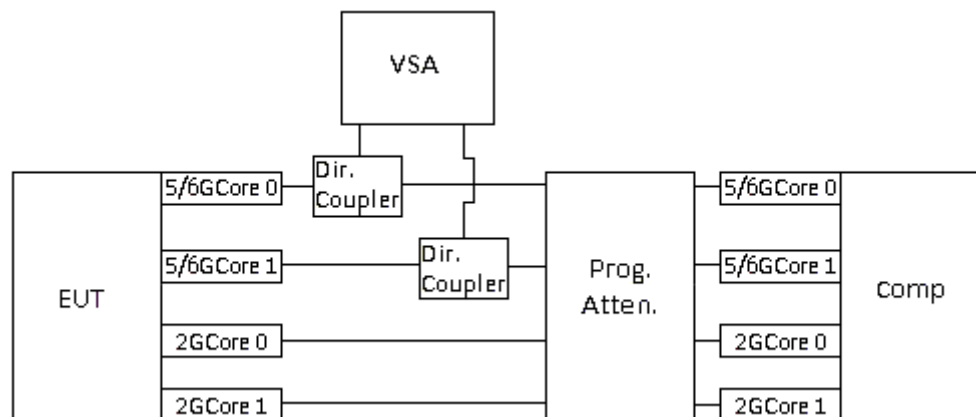


Figure 7-6. Test Instrument & Measurement Setup

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 200 of 317

V 10.50.40 12/15/2021

This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and companion device for peer-to-peer communication as shown in Figure 7-6. (no attenuation for noise free spectral environment, high RSSI simulation)
2. Set variable attenuator to 0dB (noise free spectral environment, high RSSI simulation)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD on spectrum analyzer
5. Set attenuator to 20dB (noisy spectral environment, low RSSI simulation)
6. Capture PSD on spectrum analyzer
7. Compare the highest PSD captured in step 4 to the highest PSD on step 6 and determine the delta.

Implementation Expectation: Tx power Backoff enabled at -20dBm or stronger RSSI, backoff disabled at -40dBm or weaker RSSI (RSSI updated every second)

Test Notes

1. Companion device used was model: A2993 (refer to Table 2-10)
2. Per manufacturer's declaration, after establishing communication between the EUT and the companion device, 6GHz UNII signal was used to maintain communication and traffic.
3. TPC is triggered when a high RSSI is detected. As RSSI detected signal decreases, the transmitters output power will increase back to maximum allowed power.

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 201 of 317

V 10.50.40 12/15/2021

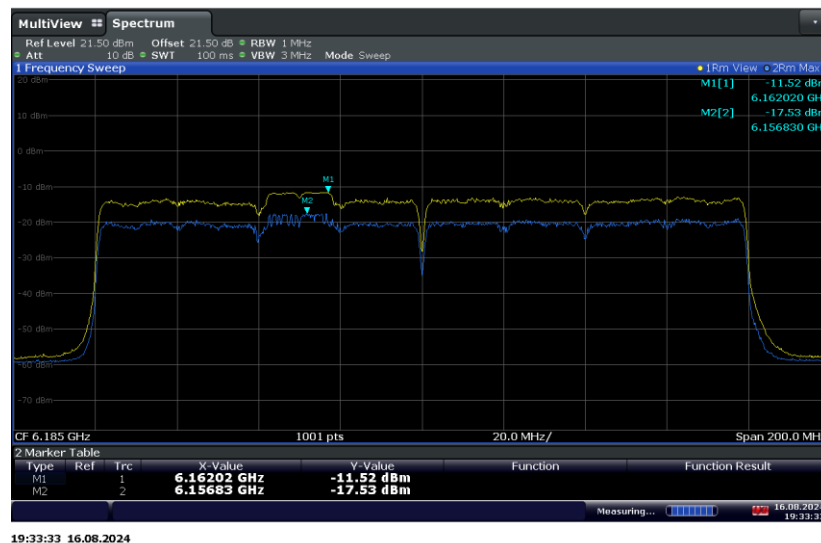
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BW [MHz]	Frequency [MHz]	MIMO		Summed Power Density [dBm/Mhz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/Mhz]	e.i.r.p. Power Density Limit [dBm/Mhz]	Pass/Fail
		Measured Power Density [dBm/MHz]						
		Antenna 5T	Antenna 3b					
160	6185MHz	-11.52	-12.56	-9.00	2.42	-6.58	-5	PASS

Table 7-92. PSD Measurements (No TPC)

BW [MHz]	Frequency [MHz]	MIMO		Summed Power Density [dBm/Mhz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/Mhz]	TPC e.i.r.p. Power Density Limit [dBm/Mhz]	Pass/Fail
		Measured Power Density [dBm/MHz]						
		Antenna 5T	Antenna 3b					
160	6185MHz	-17.53	-20.93	-15.90	2.42	-13.47	-11	PASS

Table 7-93. PSD Measurements (with TPC)



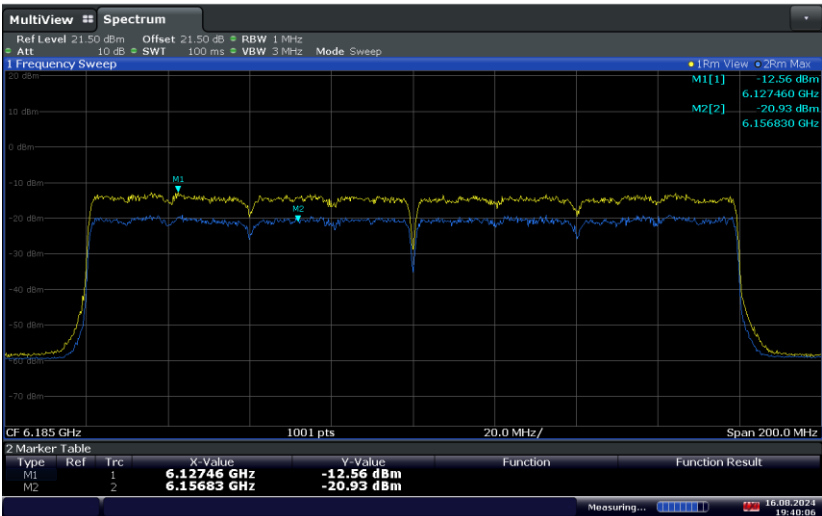
19:33:33 16.08.2024

Plot 7-597. 160MHz Bandwidth – 6185MHz Antenna 5T

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 202 of 317

V 10.50.40 12/15/2021

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19:40:06 16.08.2024

Plot 7-598. 160MHz Bandwidth – 6185MHz Antenna 3b

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 203 of 317

V 10.50.40 12/15/2021

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7.8 Radiated Spurious Emissions – Above 1GHz

§15.407(b) §15.205 §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax(SU) (20MHz BW), 802.11ax(SU) (40MHz BW), 802.11ax(SU) (80MHz), 802.11ax(SU) (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 in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP 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 [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-94. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Sections 12.7.7.2, 12.7.6

KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

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

Peak Field Strength Measurements

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

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 204 of 317

V 10.50.40 12/15/2021

Test Setup

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

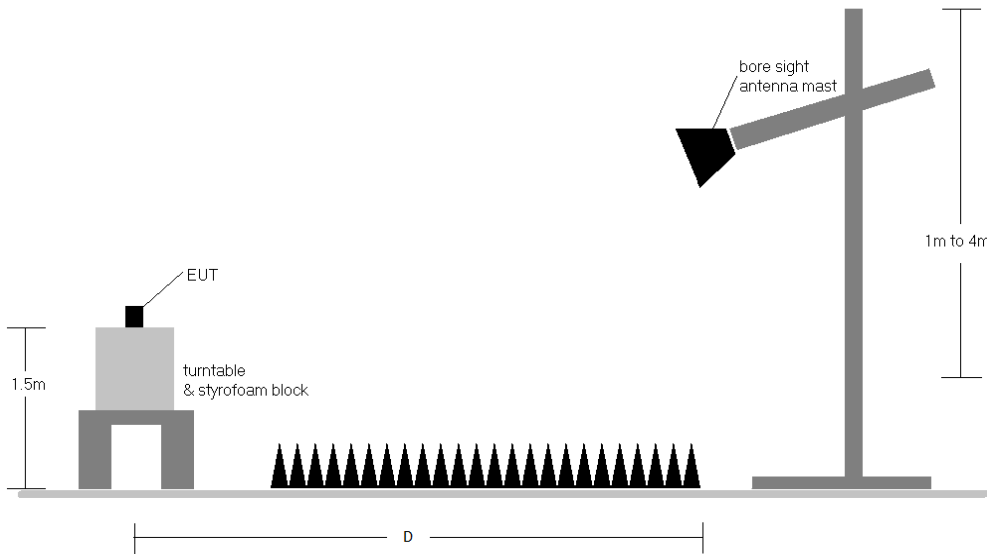


Figure 7-7. Test Instrument & Measurement Setup

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 205 of 317

V 10.50.40 12/15/2021

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-94.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-94. All spurious emissions that do not lie in a restricted band are subject to a limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. All data rates were investigated and only the worse case is reported
9. The unit was tested with all possible modes and only the highest emission is reported.
10. The “-” shown in the following RSE tables are used to denote a noise floor measurement.
11. All radiated measurements were tested at the highest supported power setting per band.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

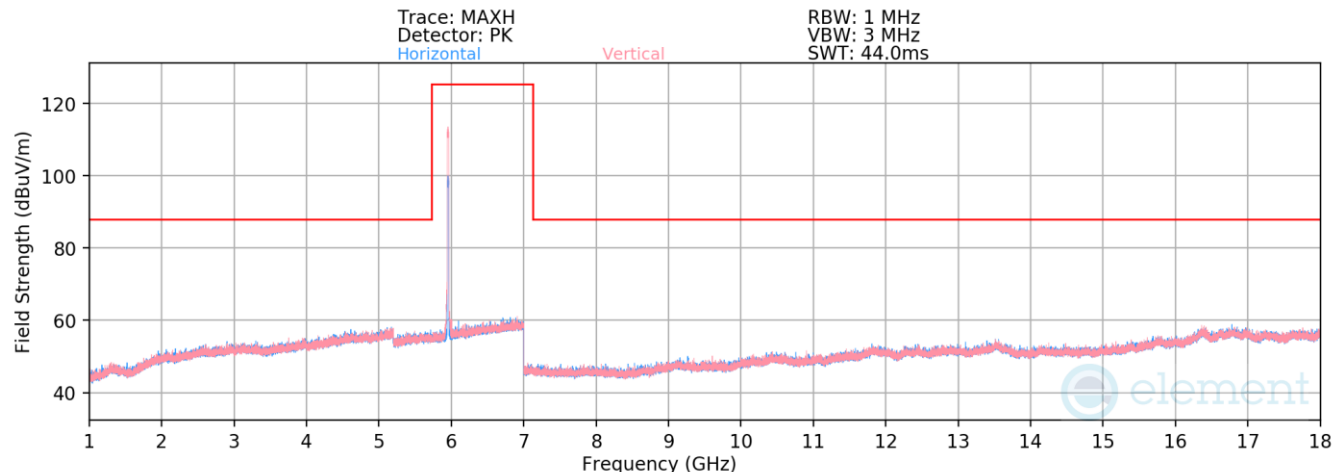
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.6 to 7.7.25 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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 206 of 317

V 10.50.40 12/15/2021

7.8.1 Antenna 5T Radiated Spurious Emission



Plot 7-599. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 1)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5955MHz
Channel: 1

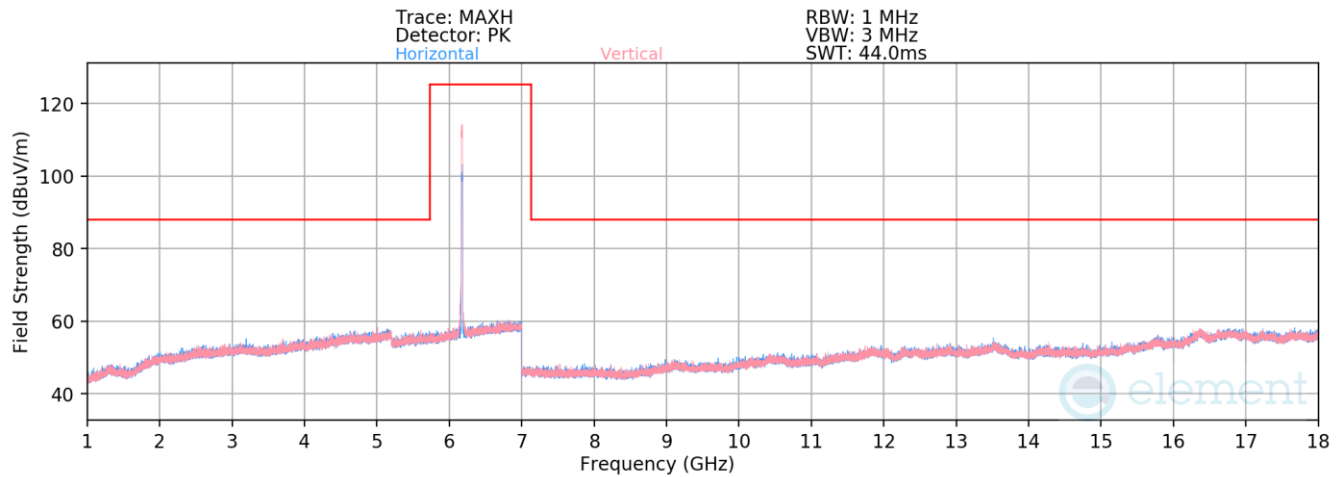
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11910.00	Average	V	-	-	-82.55	16.28	40.73	53.98	-13.25
* 11910.00	Peak	V	-	-	-71.22	16.28	52.06	73.98	-21.92
* 17865.00	Average	V	-	-	-84.33	23.70	46.37	53.98	-7.61
* 17865.00	Peak	V	-	-	-73.15	23.70	57.55	73.98	-16.43

Table 7-95. Radiated Spurious Emission Measurements Antenna 5T

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 207 of 317

V 10.50.40 12/15/2021

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Plot 7-600. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 45)

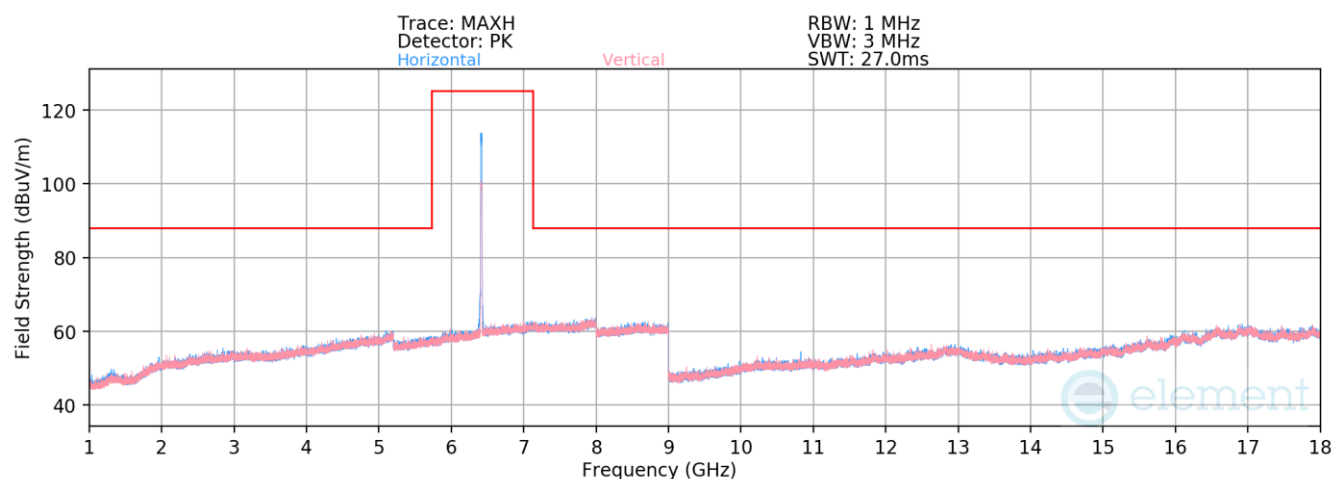
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6175MHz
Channel: 45

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	12350.00	Average	V	-	-	-83.14	16.89	40.75	53.98	-13.23
*	12350.00	Peak	V	-	-	-71.16	16.89	52.73	73.98	-21.25

Table 7-96. Radiated Spurious Emission Measurements Antenna 5T

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 208 of 317

V 10.50.40 12/15/2021



Plot 7-601. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 93)

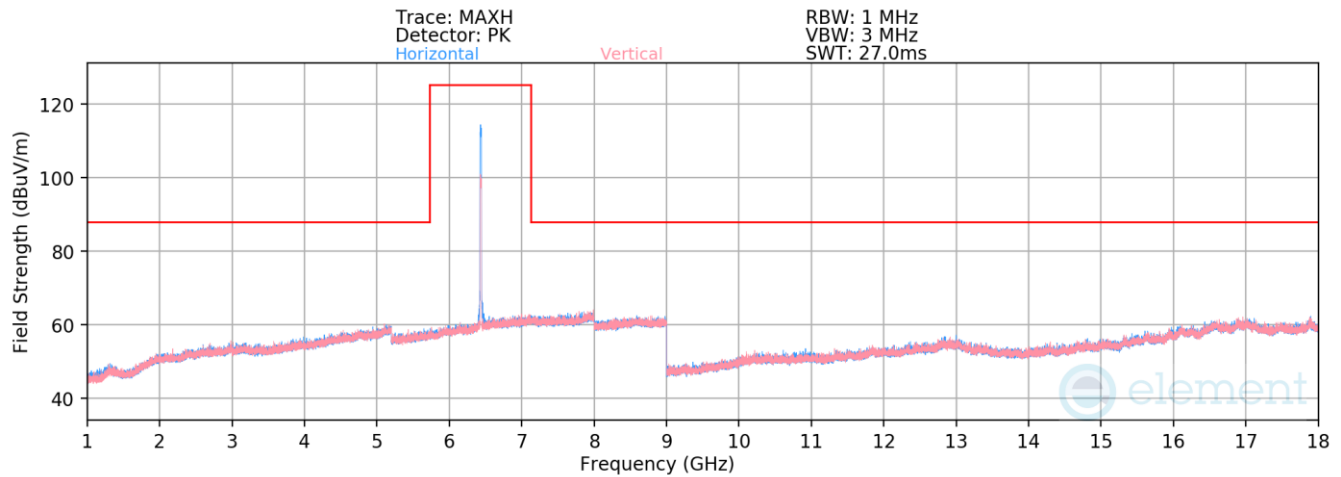
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6415MHz
Channel: 93

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12830.00	Average	V	-	-	-85.83	22.53	43.70	68.20	-24.50
12830.00	Peak	V	-	-	-75.03	22.53	54.50	88.23	-33.73

Table 7-97. Radiated Spurious Emission Measurements Antenna 5T

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 209 of 317

V 10.50.40 12/15/2021



Plot 7-602. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 97)

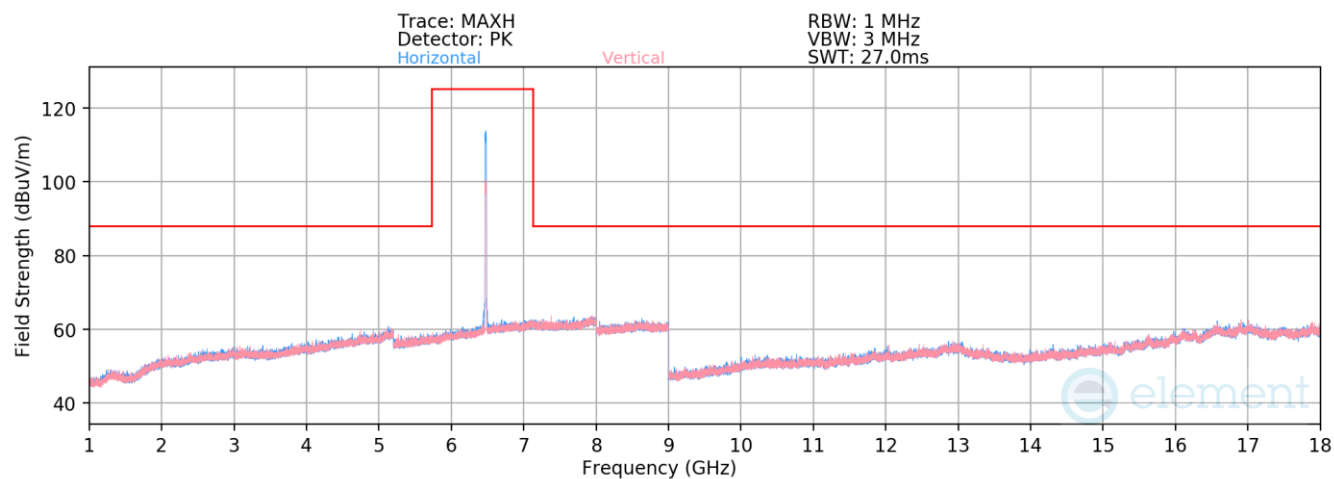
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6435MHz
Channel: 97

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12870.00	Average	V	-	-	-85.26	22.01	43.75	68.20	-24.45
12870.00	Peak	V	-	-	-74.22	22.01	54.79	88.23	-33.44

Table 7-98. Radiated Spurious Emission Measurements Antenna 5T

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 210 of 317

V 10.50.40 12/15/2021



Plot 7-603. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 105)

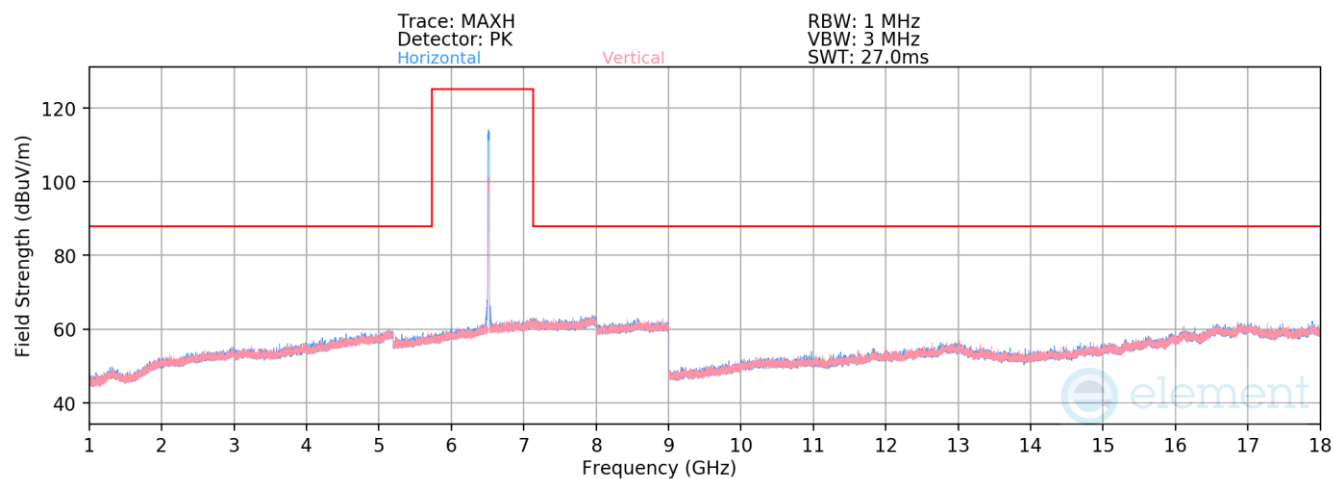
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6475MHz
Channel: 105

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
12950.00	Average	V	-	-	-85.60	22.50	43.90	68.20	-24.30
12950.00	Peak	V	-	-	-74.27	22.50	55.23	88.23	-33.00

Table 7-99. Radiated Spurious Emission Measurements Antenna 5T

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 211 of 317

V 10.50.40 12/15/2021



Plot 7-604. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 113)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6515MHz
Channel: 113

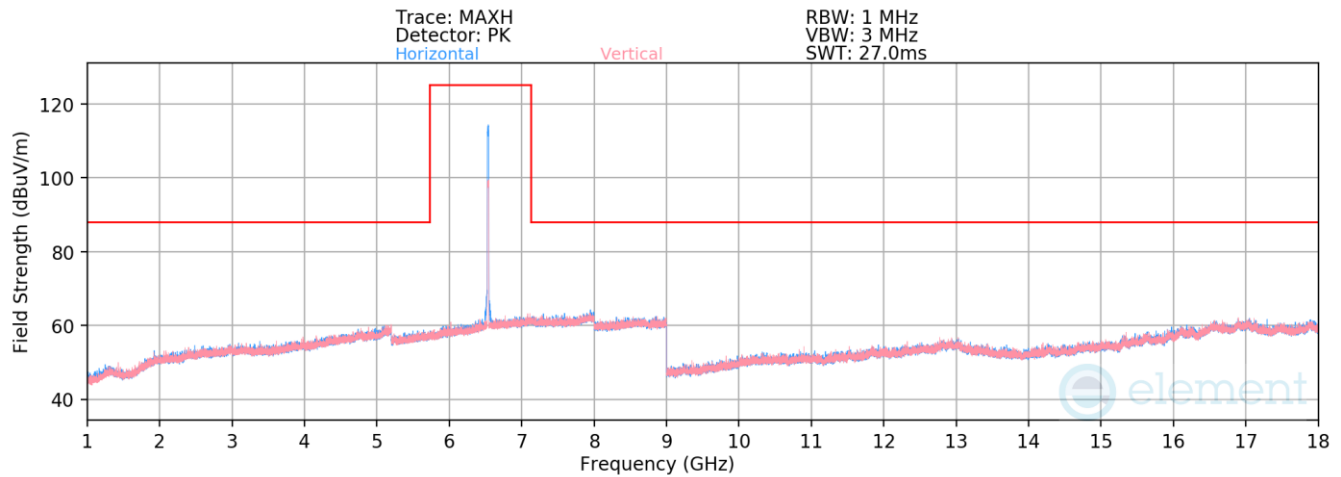
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13030.00	Average	V	-	-	-85.41	22.59	44.18	68.20	-24.02
13030.00	Peak	V	-	-	-73.91	22.59	55.68	88.23	-32.55

Table 7-100. Radiated Spurious Emission Measurements Antenna 5T

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 212 of 317

V 10.50.40 12/15/2021

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Plot 7-605. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 117)

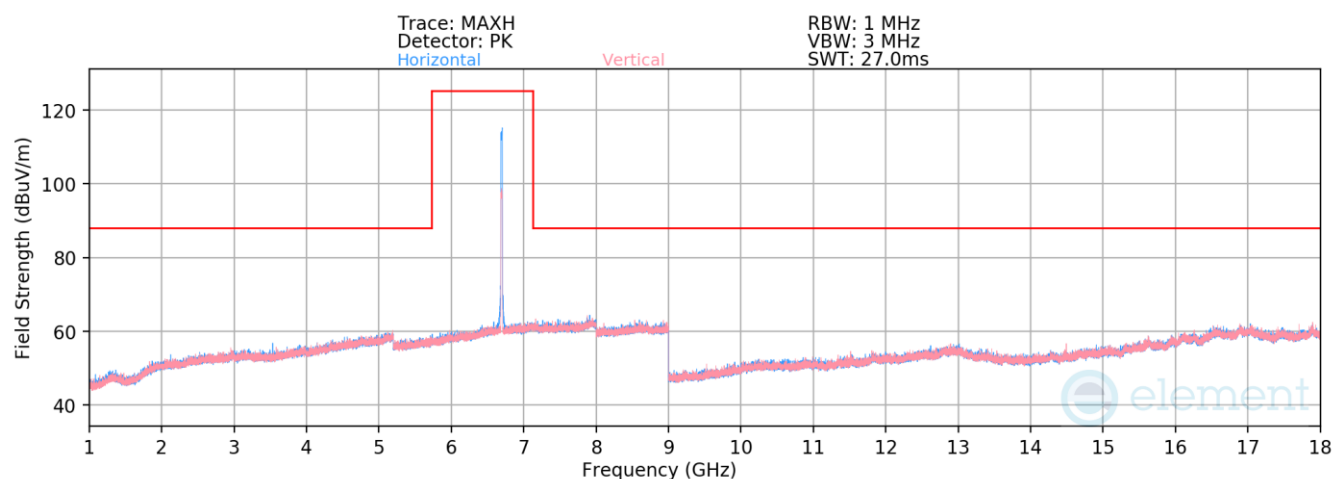
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6535MHz
Channel: 117

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13070.00	Average	V	-	-	-85.73	22.37	43.64	68.20	-24.56
13070.00	Peak	V	-	-	-73.79	22.37	55.58	88.23	-32.65

Table 7-101. Radiated Spurious Emission Measurements Antenna 5T

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 213 of 317

V 10.50.40 12/15/2021



Plot 7-606. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 149)

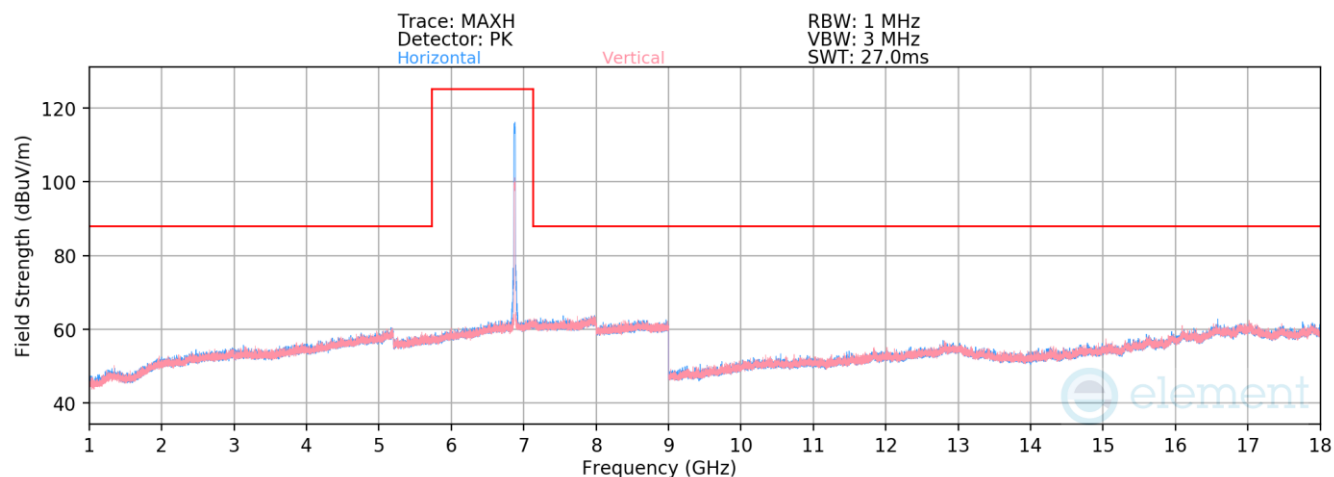
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6695MHz
Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 13390.00	Average	V	-	-	-85.99	22.62	43.63	53.98	-10.35
* 13390.00	Peak	V	-	-	-75.03	22.62	54.59	73.98	-19.39

Table 7-102. Radiated Spurious Emission Measurements Antenna 5T

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 214 of 317

V 10.50.40 12/15/2021



Plot 7-607. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 185)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6875MHz
Channel: 185

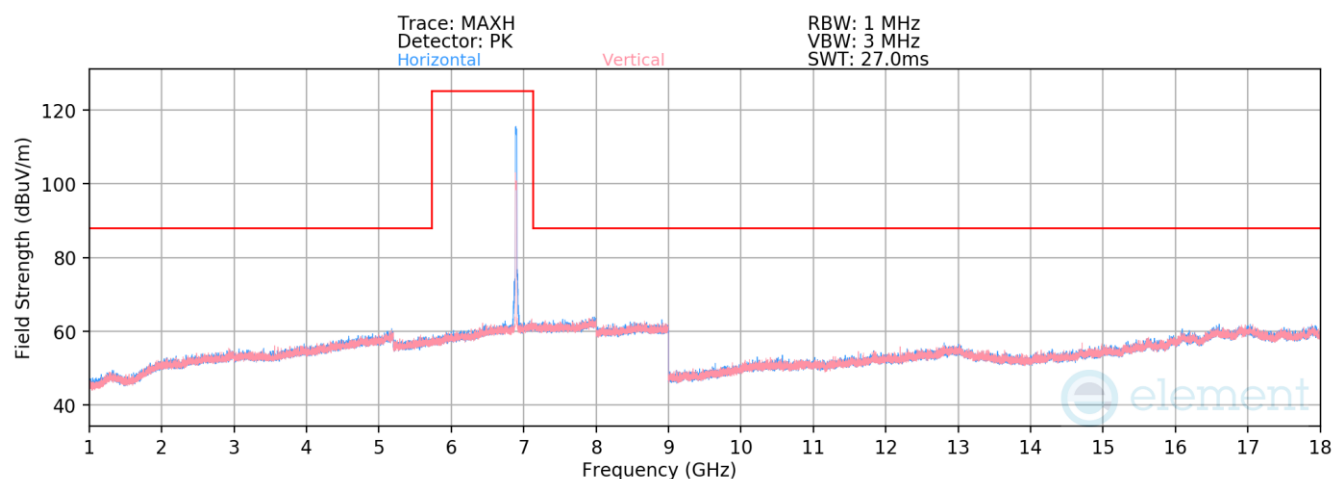
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13750.00	Average	V	-	-	-85.98	22.04	43.06	68.20	-25.14
13750.00	Peak	V	-	-	-74.89	22.04	54.15	88.23	-34.08

Table 7-103. Radiated Spurious Emission Measurements Antenna 5T

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 215 of 317

V 10.50.40 12/15/2021

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Plot 7-608. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 189)

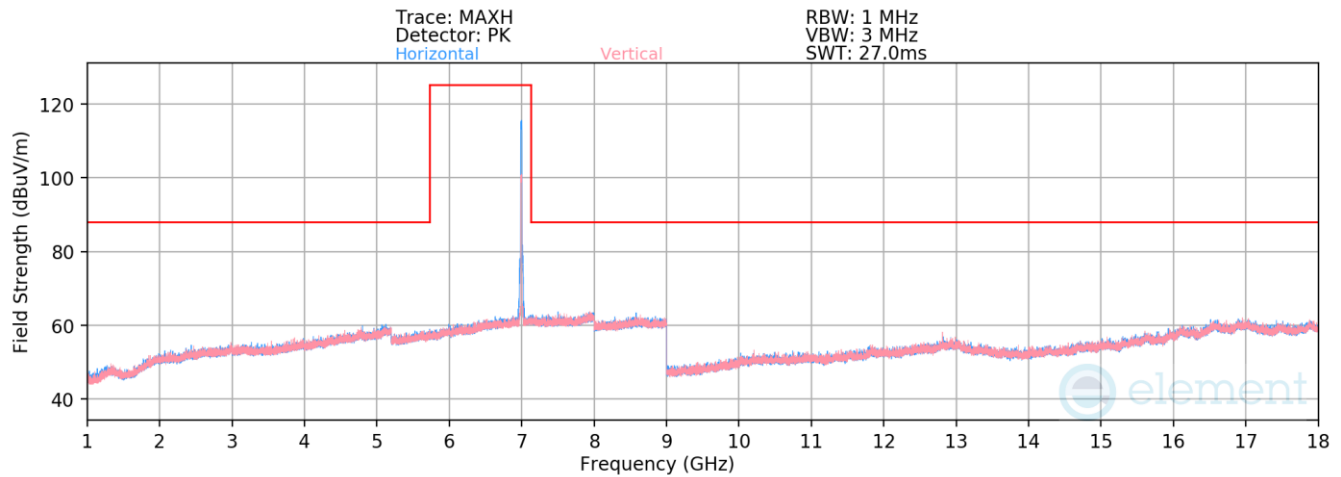
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6895MHz
Channel: 189

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13790.00	Average	V	-	-	-86.25	22.42	43.17	68.20	-25.03
13790.00	Peak	V	-	-	-74.95	22.42	54.47	88.23	-33.76

Table 7-104. Radiated Spurious Emission Measurements Antenna 5T

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 216 of 317

V 10.50.40 12/15/2021



Plot 7-609. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 209)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6995MHz
Channel: 209

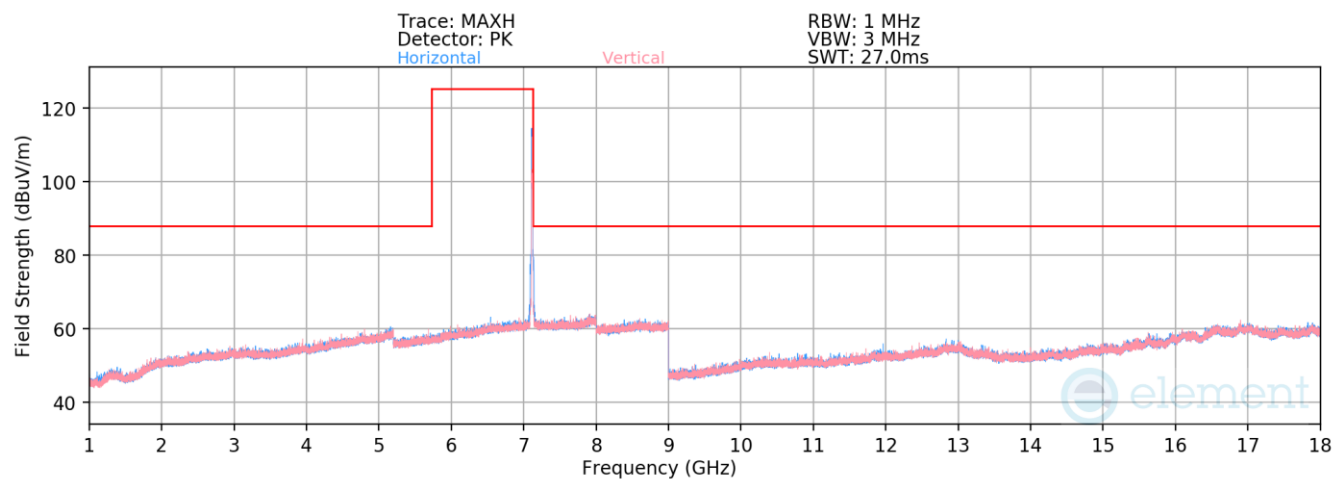
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13990.00	Average	H	-	-	-86.36	22.30	42.94	68.20	-25.26
13990.00	Peak	H	-	-	-74.94	22.30	54.36	88.23	-33.87

Table 7-105. Radiated Spurious Emission Measurements Antenna 5T

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 217 of 317

V 10.50.40 12/15/2021

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Plot 7-610. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11ax – Ch. 233)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233

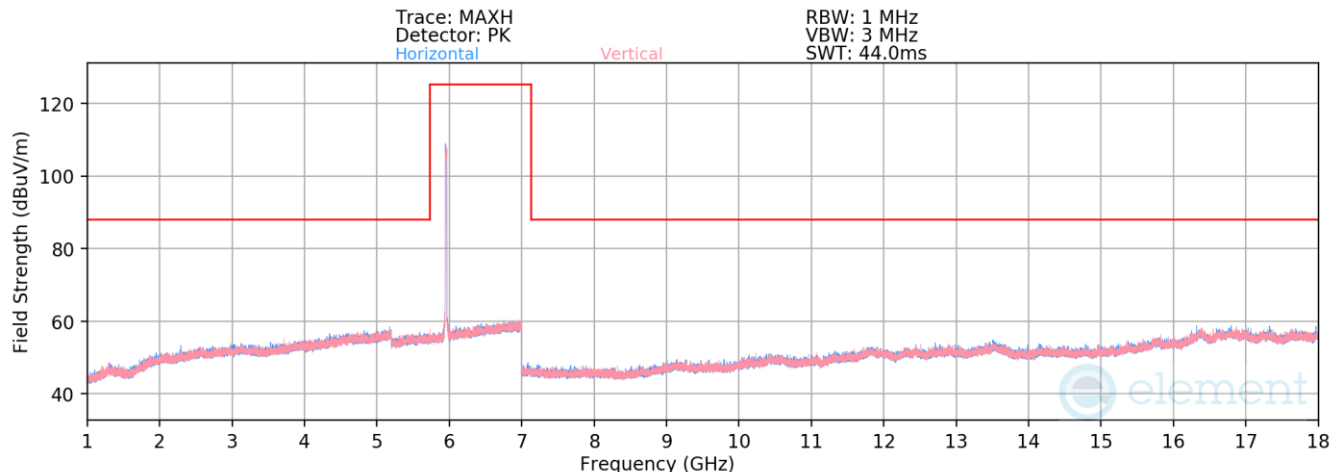
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
14230.00	Average	H	-	-	-85.85	22.58	43.73	68.20	-24.47
14230.00	Peak	H	-	-	-74.61	22.58	54.97	88.23	-33.26

Table 7-106. Radiated Spurious Emission Measurements Antenna 5T

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 218 of 317

V 10.50.40 12/15/2021

7.8.2 Antenna 3b Radiated Spurious Emission



Plot 7-611. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 1)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5955MHz
Channel: 1

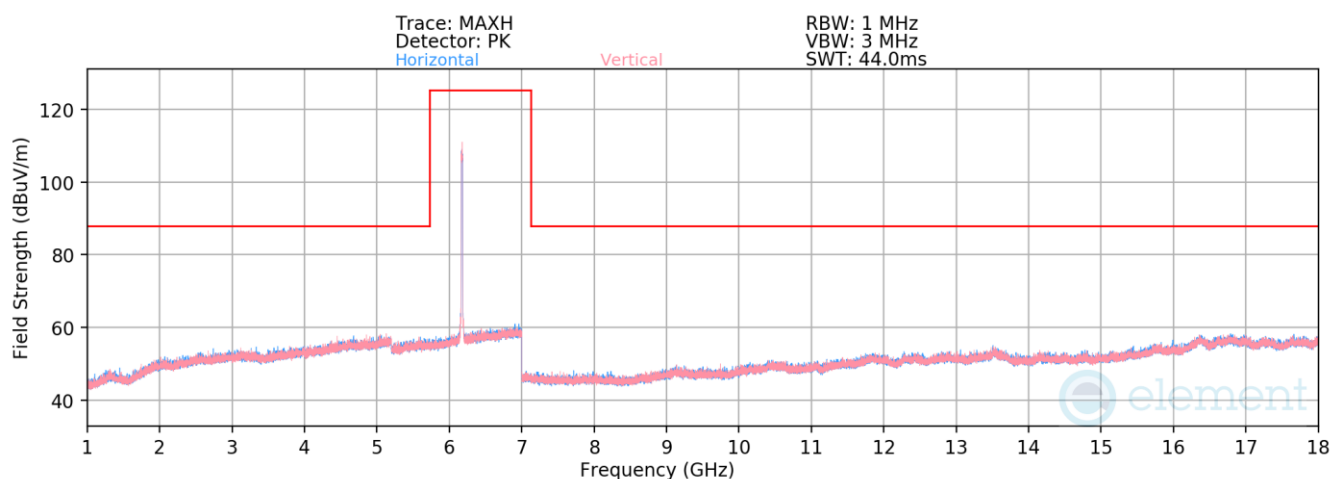
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11910.00	Average	V	-	-	-82.57	16.28	40.71	53.98	-13.27
*	11910.00	Peak	V	-	-	-67.30	12.60	52.30	73.98	-21.68
*	17865.00	Average	V	-	-	-84.33	23.64	46.31	53.98	-7.67
*	17865.00	Peak	V	-	-	-72.40	23.64	58.24	73.98	-15.74

Table 7-107. Radiated Spurious Emission Measurements Antenna 3b

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 219 of 317

V 10.50.40 12/15/2021

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Plot 7-612. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 45)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6175MHz
Channel: 45

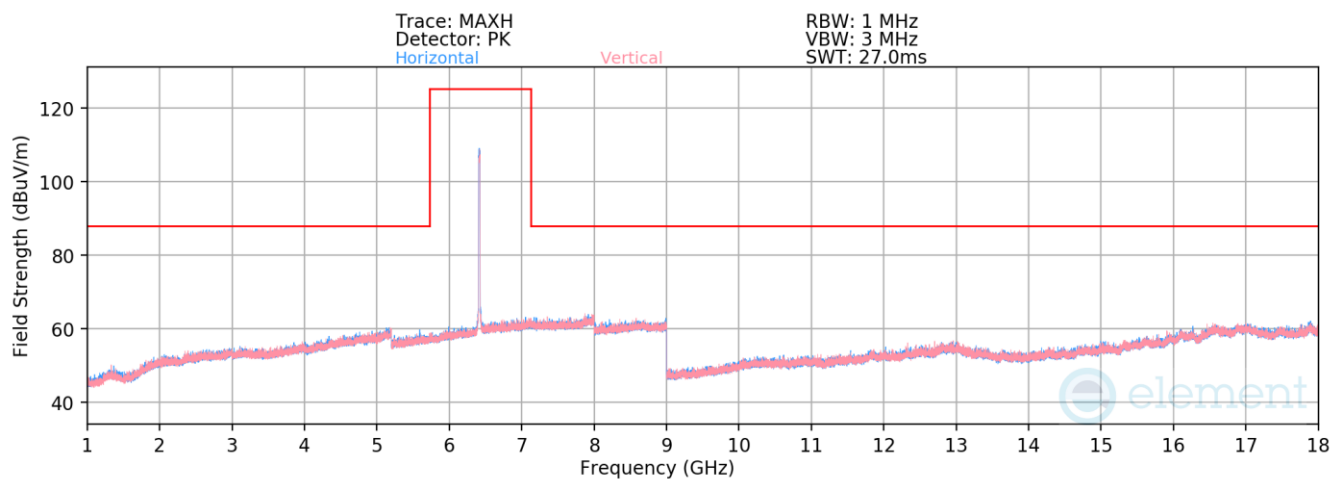
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 12350.00	Average	V	-	-	-83.10	16.88	40.78	53.98	-13.20
* 12350.00	Peak	V	-	-	-71.55	16.88	52.33	73.98	-21.65

Table 7-108. Radiated Spurious Emission Measurements Antenna 3b

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 220 of 317

V 10.50.40 12/15/2021

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Plot 7-613. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 93)

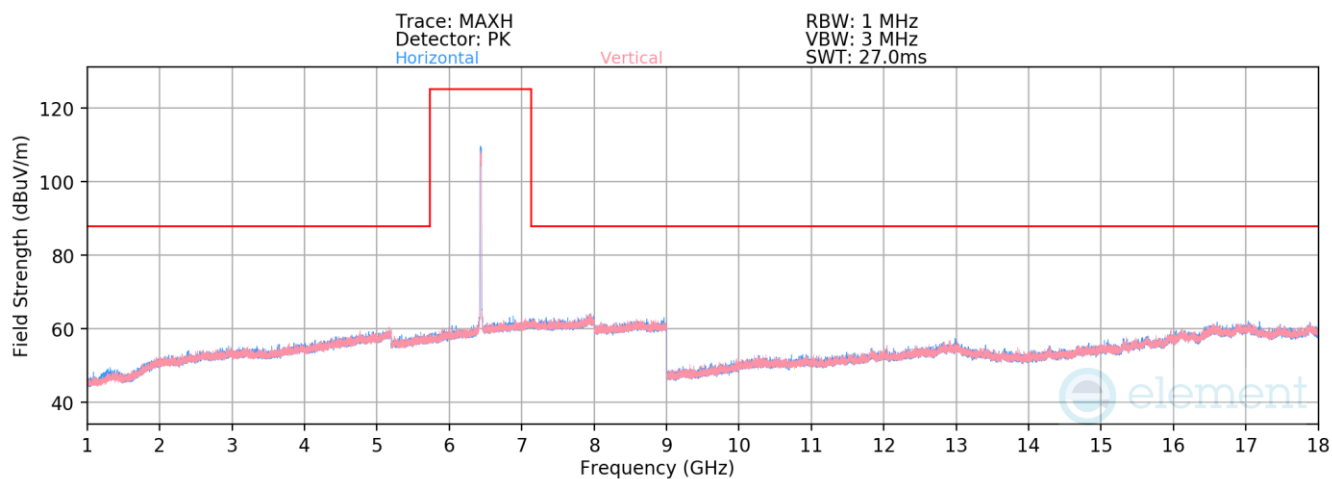
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6415MHz
Channel: 93

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12830.00	Average	V	-	-	-85.60	22.53	43.93	68.20	-24.27
12830.00	Peak	V	-	-	-74.70	22.53	54.83	88.23	-33.40

Table 7-109. Radiated Spurious Emission Measurements Antenna 3b

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 221 of 317

V 10.50.40 12/15/2021



Plot 7-614. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 97)

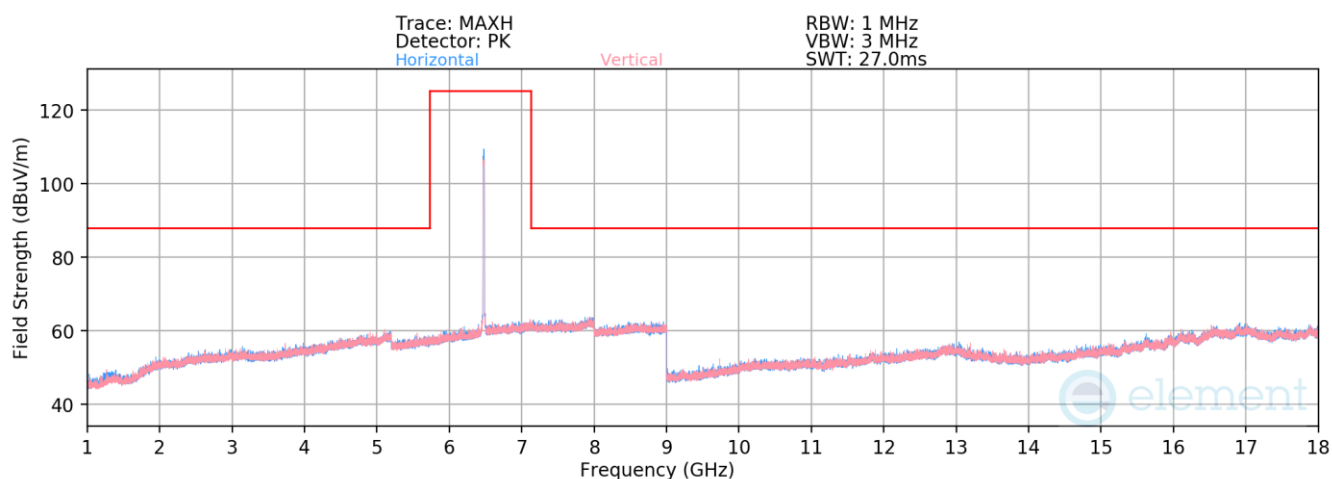
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6435MHz
Channel: 97

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12870.00	Average	V	-	-	-85.76	22.34	43.58	68.20	-24.62
12870.00	Peak	V	-	-	-73.96	22.34	55.38	88.23	-32.85

Table 7-110. Radiated Spurious Emission Measurements Antenna 3b

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 222 of 317

V 10.50.40 12/15/2021



Plot 7-615. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 105)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6475MHz
Channel: 105

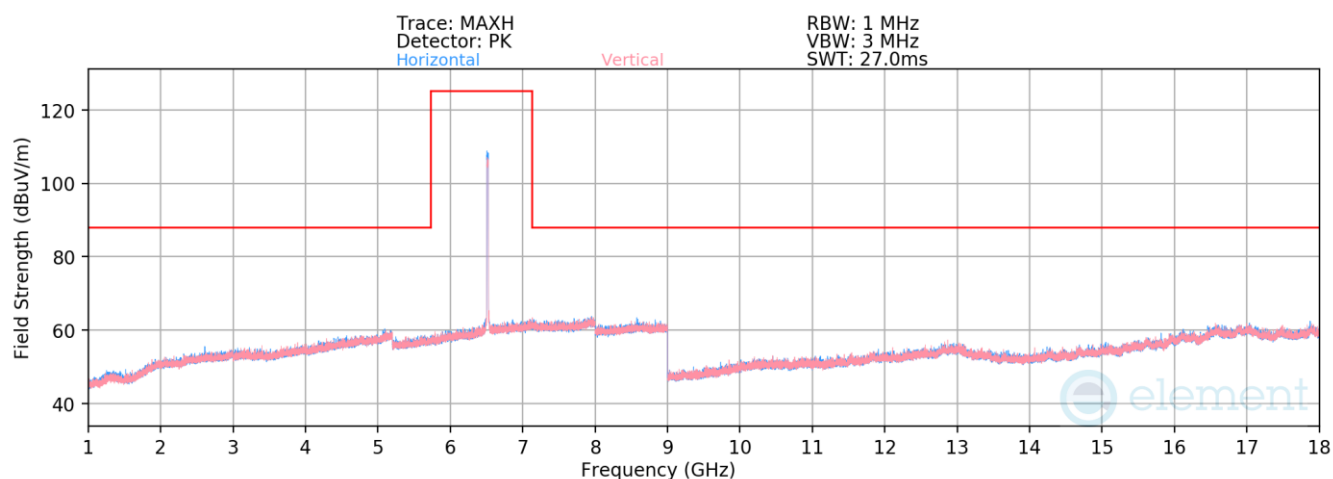
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12950.00	Average	V	-	-	-85.41	22.14	43.73	68.20	-24.47
12950.00	Peak	V	-	-	-73.74	22.14	55.40	88.23	-32.83

Table 7-111. Radiated Spurious Emission Measurements Antenna 3b

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 223 of 317

V 10.50.40 12/15/2021

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Plot 7-616. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 113)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6515MHz
Channel: 113

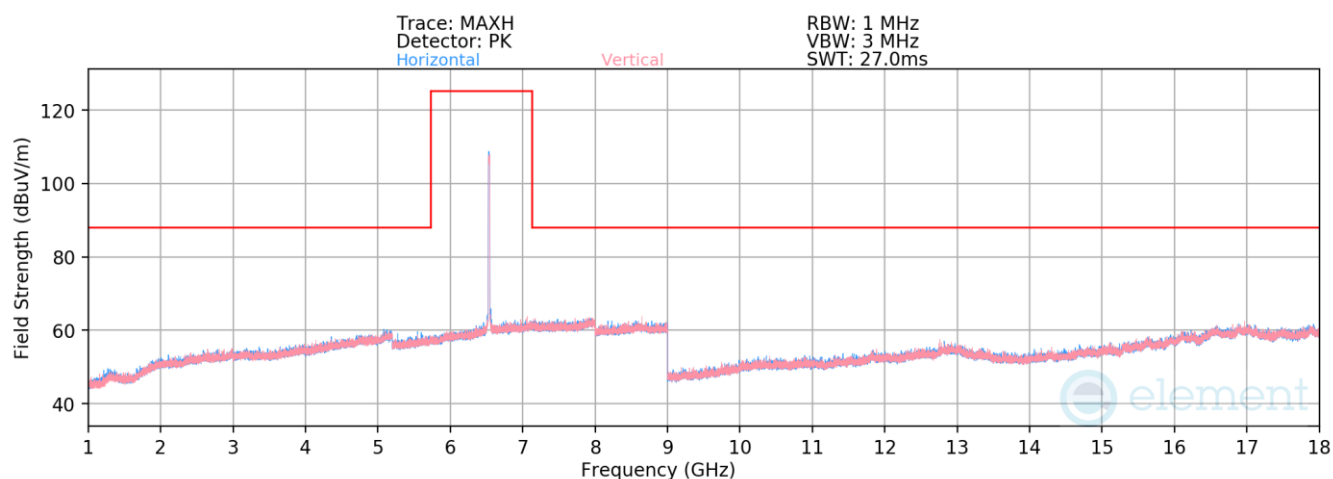
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13030.00	Average	V	-	-	-85.14	22.59	44.45	68.20	-23.75
13030.00	Peak	V	-	-	-73.95	22.59	55.64	88.23	-32.59

Table 7-112. Radiated Spurious Emission Measurements Antenna 3b

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 224 of 317

V 10.50.40 12/15/2021

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Plot 7-617. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 117)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6535MHz
Channel: 117

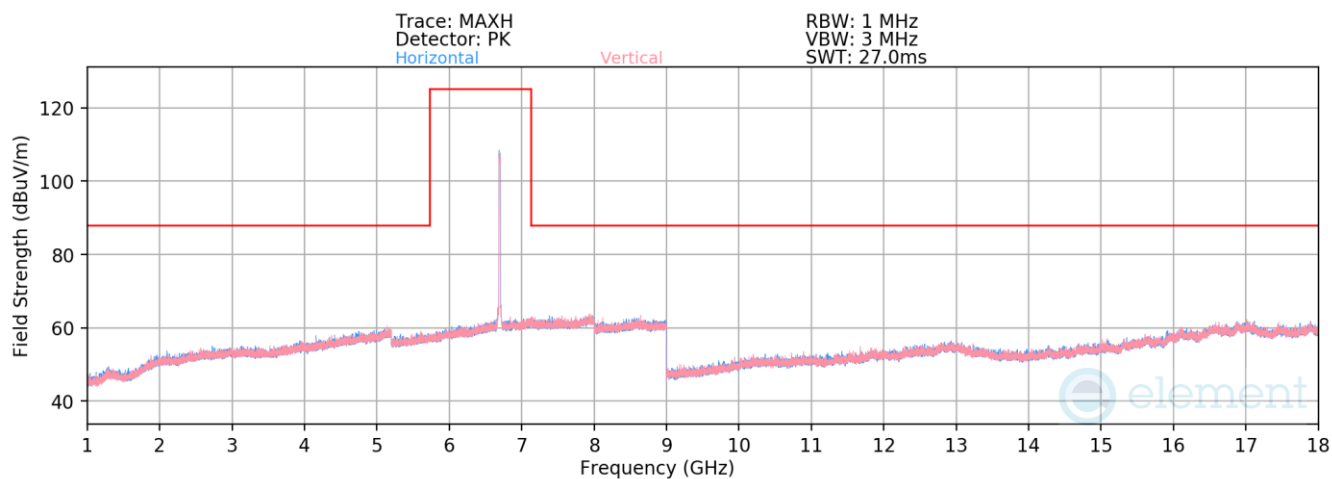
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13070.00	Average	V	-	-	-85.69	22.37	43.68	68.20	-24.52
13070.00	Peak	V	-	-	-74.56	22.37	54.81	88.23	-33.42

Table 7-113. Radiated Spurious Emission Measurements Antenna 3b

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 225 of 317

V 10.50.40 12/15/2021

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Plot 7-618. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 149)

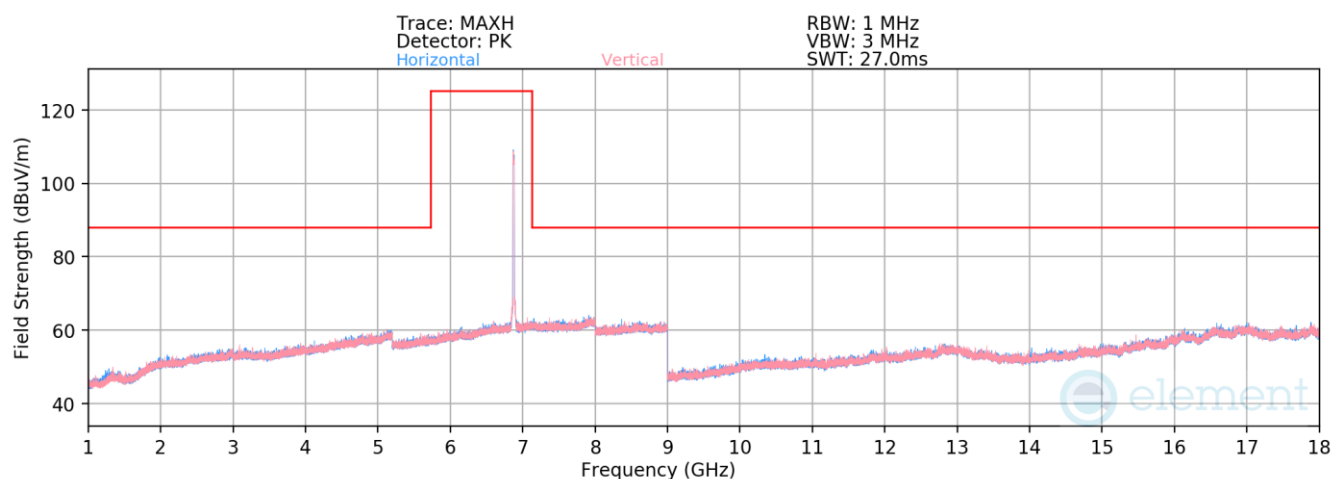
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6695MHz
Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 13390.00	Average	V	-	-	-85.52	22.13	43.61	53.98	-10.37
* 13390.00	Peak	V	-	-	-74.36	22.13	54.77	73.98	-19.21

Table 7-114. Radiated Spurious Emission Measurements Antenna 3b

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 226 of 317

V 10.50.40 12/15/2021



Plot 7-619. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 185)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6875MHz
Channel: 185

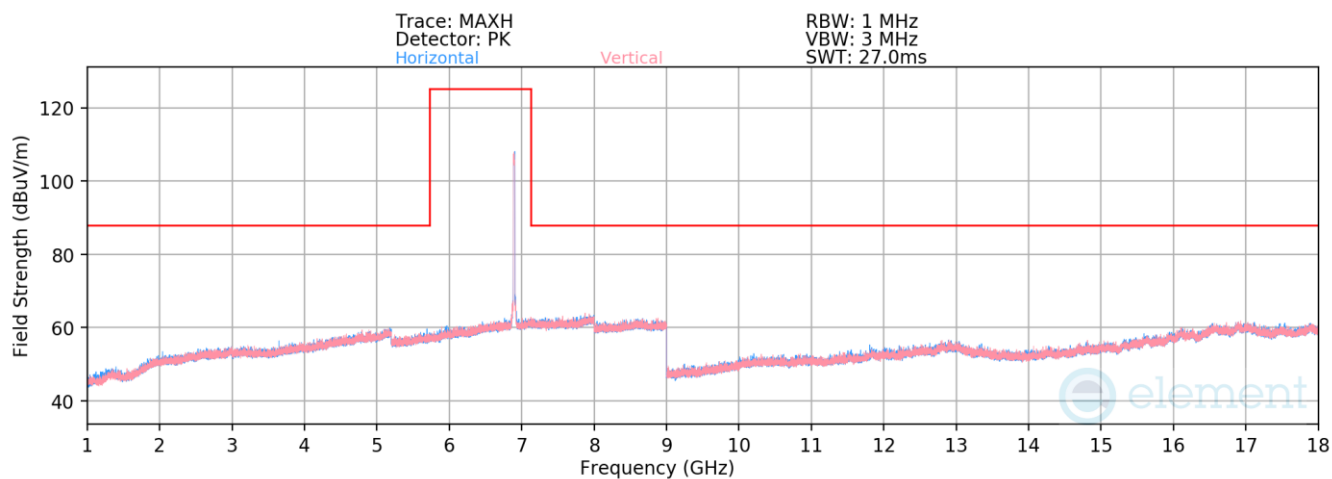
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13750.00	Average	V	-	-	-85.92	22.10	43.18	68.20	-25.02
13750.00	Peak	V	-	-	-74.76	22.10	54.34	88.23	-33.89

Table 7-115. Radiated Spurious Emission Measurements Antenna 3b

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 227 of 317

V 10.50.40 12/15/2021

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Plot 7-620. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 189)

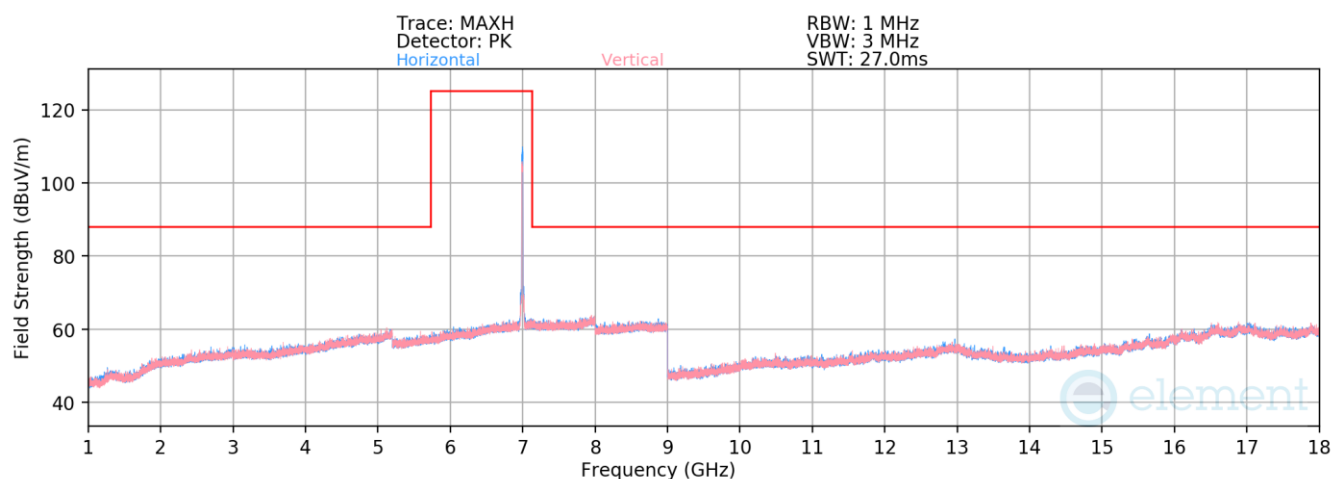
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6895MHz
Channel: 189

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13790.00	Average	V	-	-	-85.81	22.04	43.23	68.20	-24.97
13790.00	Peak	V	-	-	-74.52	22.04	54.52	88.23	-33.71

Table 7-116. Radiated Spurious Emission Measurements Antenna 3b

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 228 of 317

V 10.50.40 12/15/2021



Plot 7-621. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 209)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6995MHz
Channel: 209

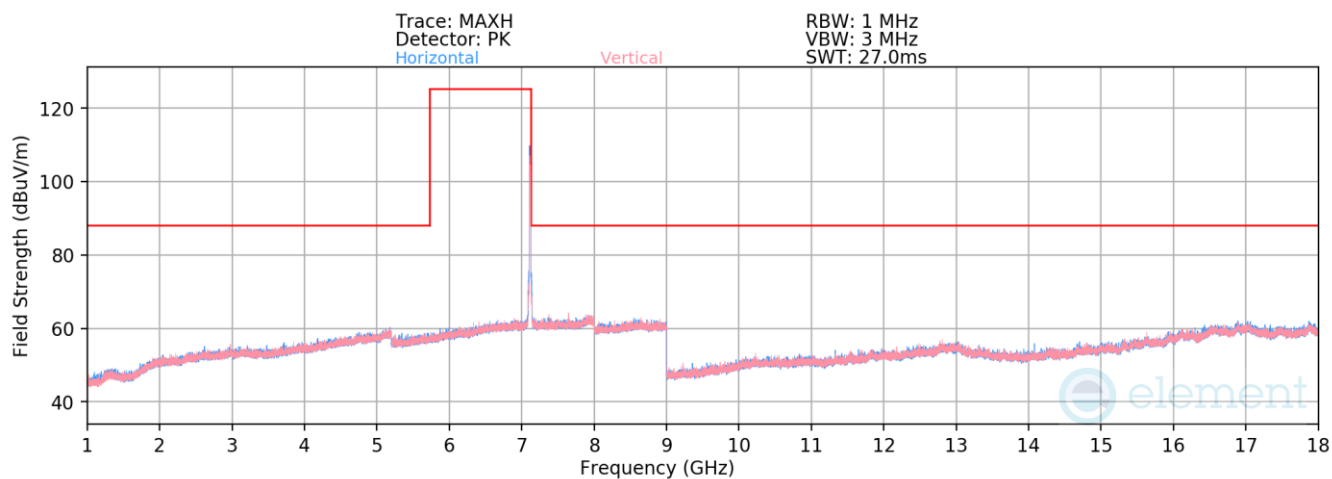
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13990.00	Average	H	-	-	-86.23	22.36	43.13	68.20	-25.07
13990.00	Peak	H	-	-	-75.60	22.36	53.76	88.23	-34.47

Table 7-117. Radiated Spurious Emission Measurements Antenna 3b

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 229 of 317

V 10.50.40 12/15/2021

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Plot 7-622. Radiated Spurious Emissions above 1GHz Antenna 3b (802.11ax – Ch. 233)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
14230.00	Average	H	-	-	-86.16	22.84	43.68	68.20	-24.52
14230.00	Peak	H	-	-	-74.54	22.84	55.30	88.23	-32.93

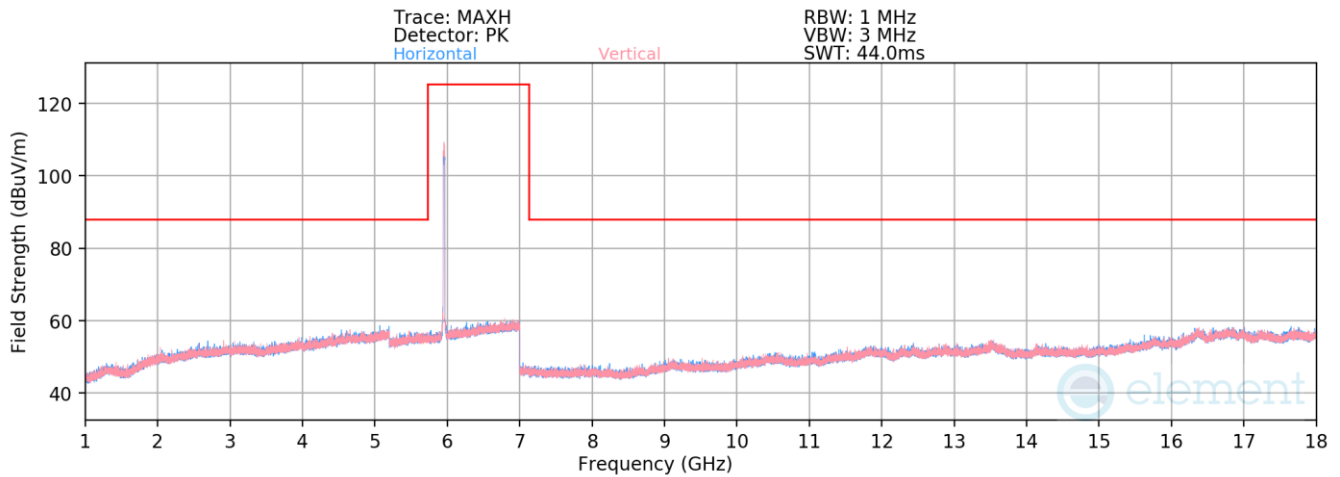
Table 7-118. Radiated Spurious Emission Measurements Antenna 3b

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 230 of 317

V 10.50.40 12/15/2021

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7.8.3 Antenna 1b Radiated Spurious Emission



Plot 7-623. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 1)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5955MHz
Channel: 1

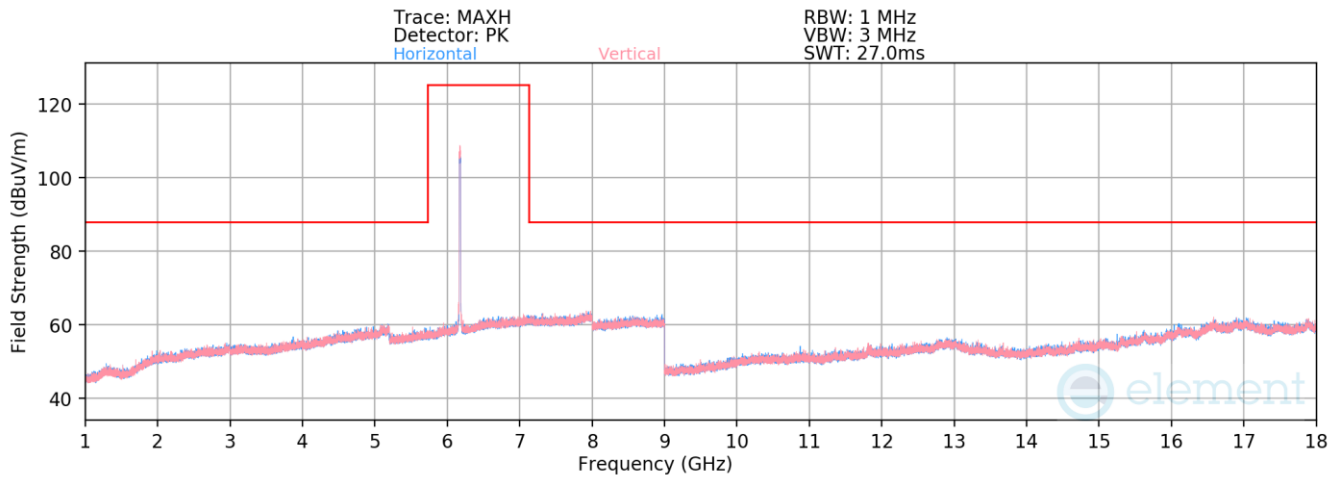
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11910.00	Average	V	-	-	-82.44	16.35	40.91	53.98	-13.07
*	11910.00	Peak	V	-	-	-71.54	16.35	51.81	73.98	-22.17
*	17865.00	Average	V	-	-	-84.55	23.95	46.40	53.98	-7.58
*	17865.00	Peak	V	-	-	-73.58	23.95	57.37	73.98	-16.61

Table 7-119. Radiated Spurious Emission Measurements Antenna 1b

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 231 of 317

V 10.50.40 12/15/2021

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Plot 7-624. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 45)

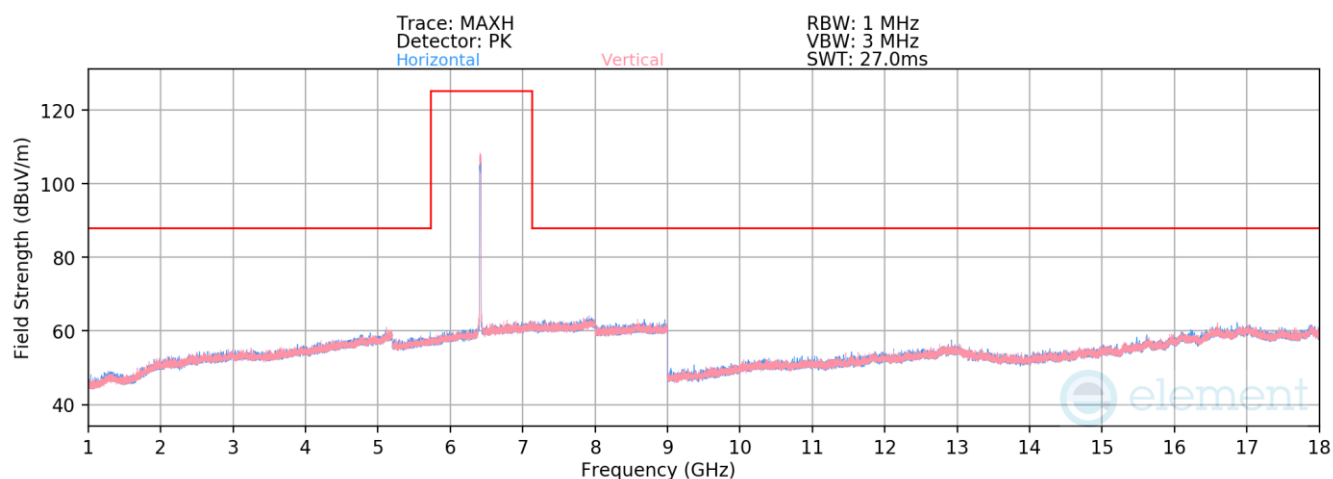
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6175MHz
Channel: 45

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 12350.00	Average	V	-	-	-85.85	21.40	42.55	53.98	-11.43
* 12350.00	Peak	V	-	-	-74.52	21.40	53.88	73.98	-20.10

Table 7-120. Radiated Spurious Emission Measurements Antenna 1b

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 232 of 317

V 10.50.40 12/15/2021



Plot 7-625. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 93)

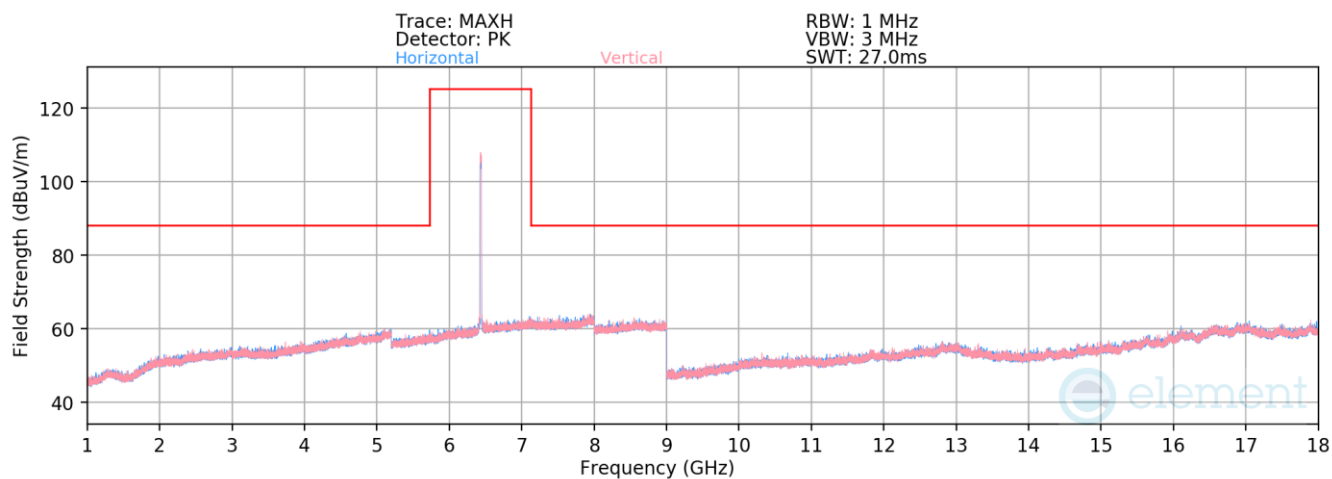
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6415MHz
Channel: 93

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12830.00	Average	V	-	-	-85.26	22.01	43.75	68.20	-24.45
12830.00	Peak	V	-	-	-73.83	22.01	55.18	88.23	-33.05

Table 7-121. Radiated Spurious Emission Measurements Antenna 1b

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 233 of 317

V 10.50.40 12/15/2021



Plot 7-626. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 97)

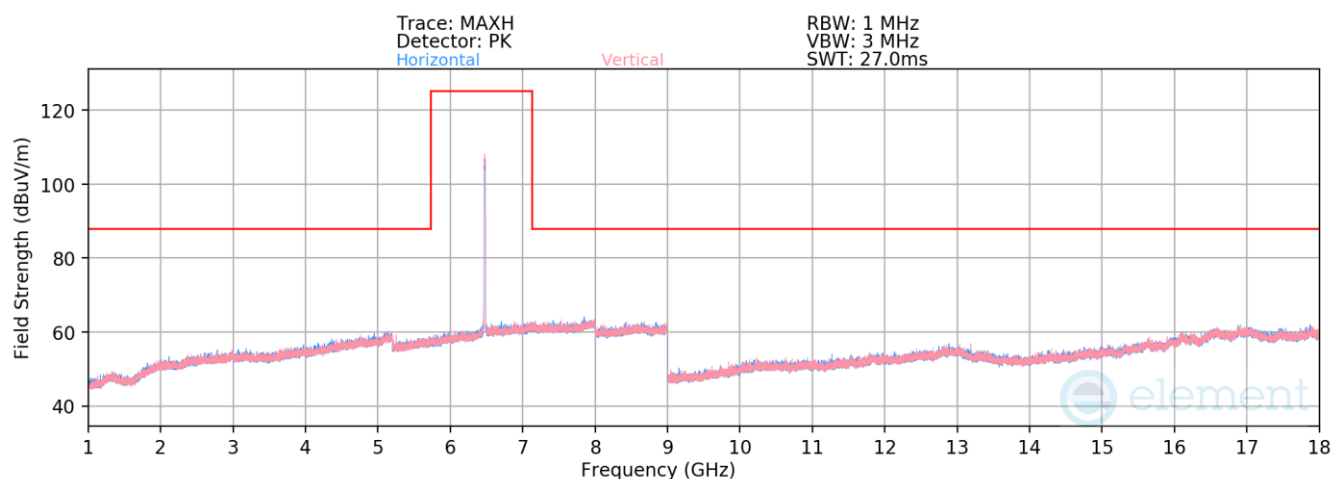
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6435MHz
Channel: 97

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12870.00	Average	V	-	-	-85.92	22.53	43.61	68.20	-24.59
12870.00	Peak	V	-	-	-74.51	22.53	55.02	88.23	-33.21

Table 7-122. Radiated Spurious Emission Measurements Antenna 1b

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 234 of 317

V 10.50.40 12/15/2021



Plot 7-627. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 105)

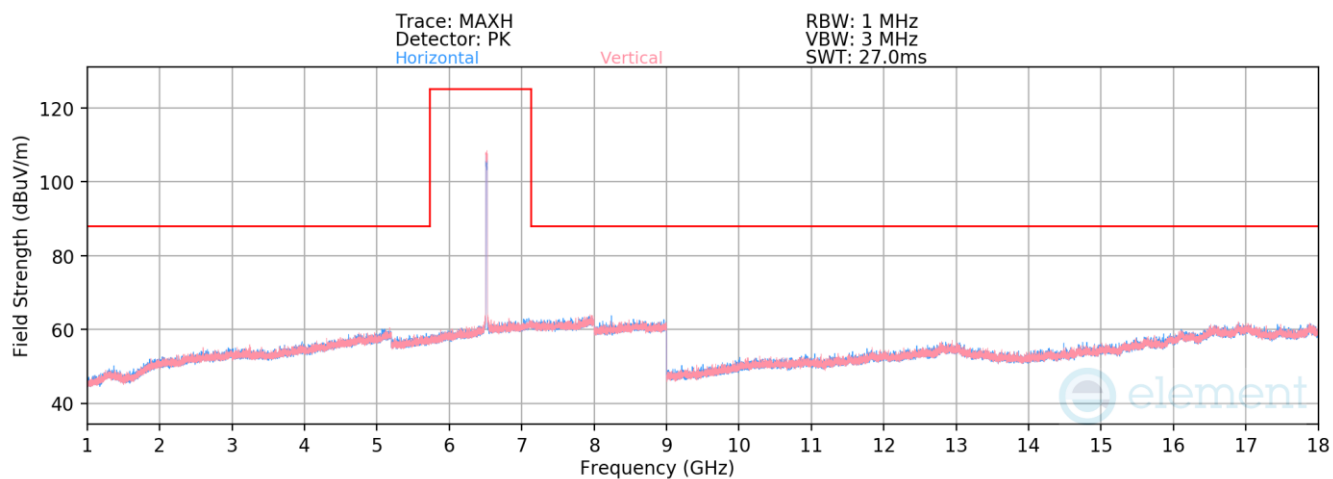
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6475MHz
Channel: 105

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12950.00	Average	V	-	-	-85.09	22.18	44.09	68.20	-24.11
12950.00	Peak	V	-	-	-74.47	22.18	54.71	88.23	-33.52

Table 7-123. Radiated Spurious Emission Measurements Antenna 1b

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 235 of 317

V 10.50.40 12/15/2021



Plot 7-628. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 113)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6515MHz
Channel: 113

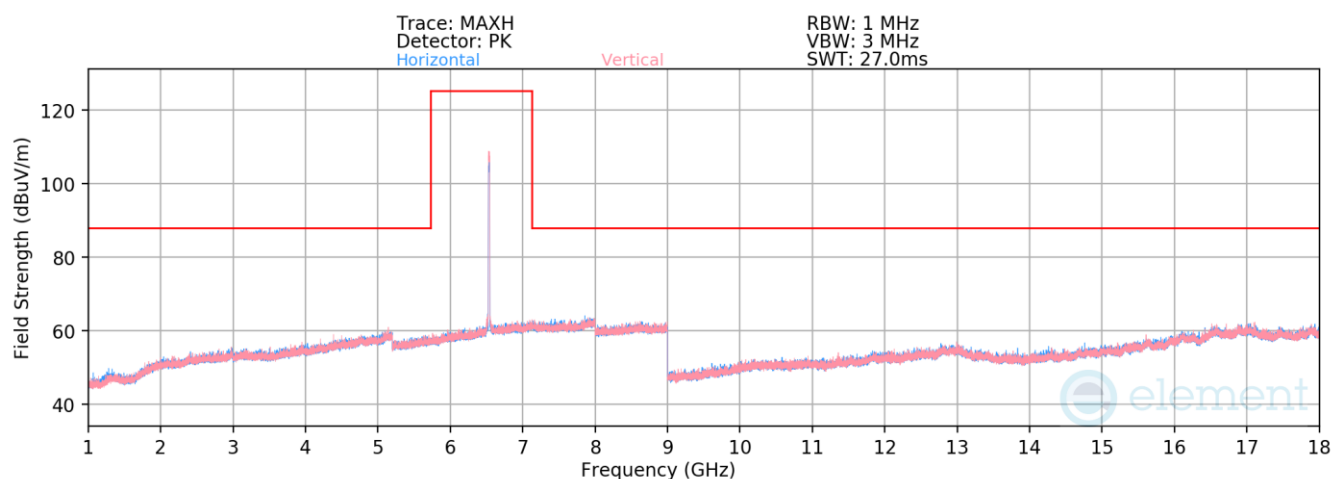
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13030.00	Average	V	-	-	-85.32	22.59	44.27	68.20	-23.93
13030.00	Peak	V	-	-	-73.43	22.59	56.16	88.23	-32.07

Table 7-124. Radiated Spurious Emission Measurements Antenna 1b

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 236 of 317

V 10.50.40 12/15/2021

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Plot 7-629. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 117)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6535MHz
Channel: 117

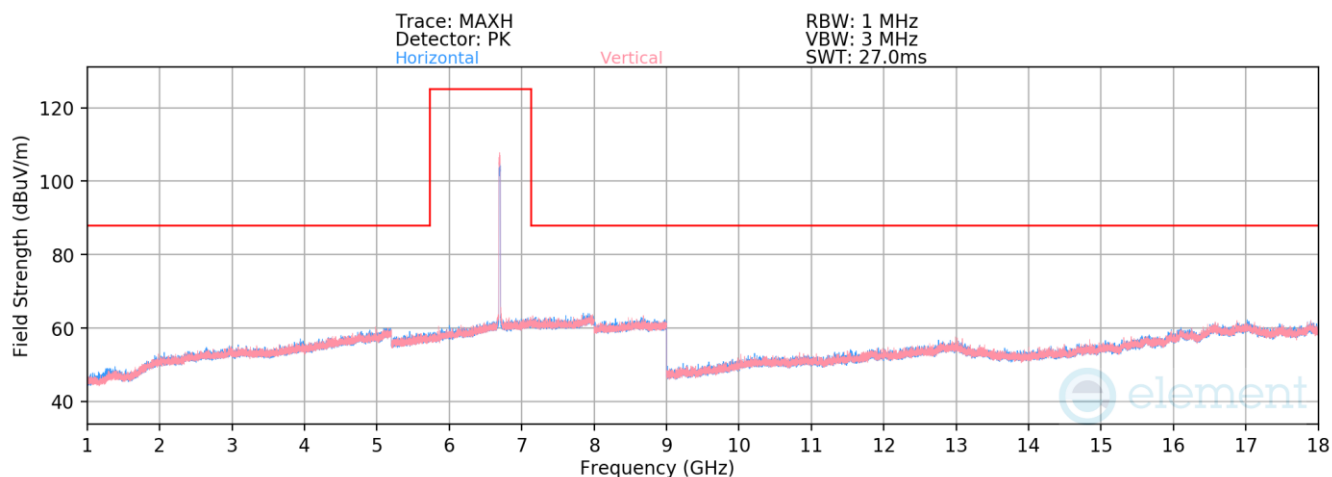
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13070.00	Average	V	-	-	-85.33	22.37	44.04	68.20	-24.16
13070.00	Peak	V	-	-	-73.99	22.37	55.38	88.23	-32.85

Table 7-125. Radiated Spurious Emission Measurements Antenna 1b

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 237 of 317

V 10.50.40 12/15/2021

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Plot 7-630. Radiated Spurious Emissions above 1GHz Antenna 1b (802.11ax – Ch. 149)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6695MHz
Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 13390.00	Average	V	-	-	-85.52	22.28	43.76	53.98	-10.22
* 13390.00	Peak	V	-	-	-74.15	22.28	55.13	73.98	-18.85

Table 7-126. Radiated Spurious Emission Measurements Antenna 1b

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 238 of 317

V 10.50.40 12/15/2021