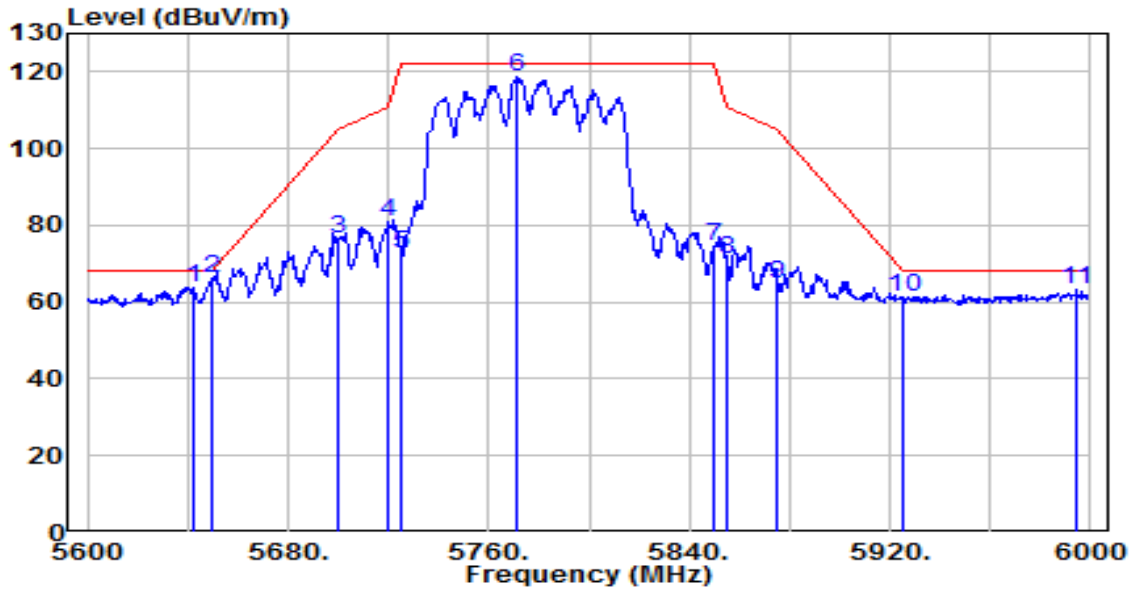


EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2024-12-05
Factor	BBHA 9120D	Temp. / Humidity	25°C /42%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-80MHz_TX_Band4_CH 155_ANT 0+1	Test Voltage	AC 120V/60Hz

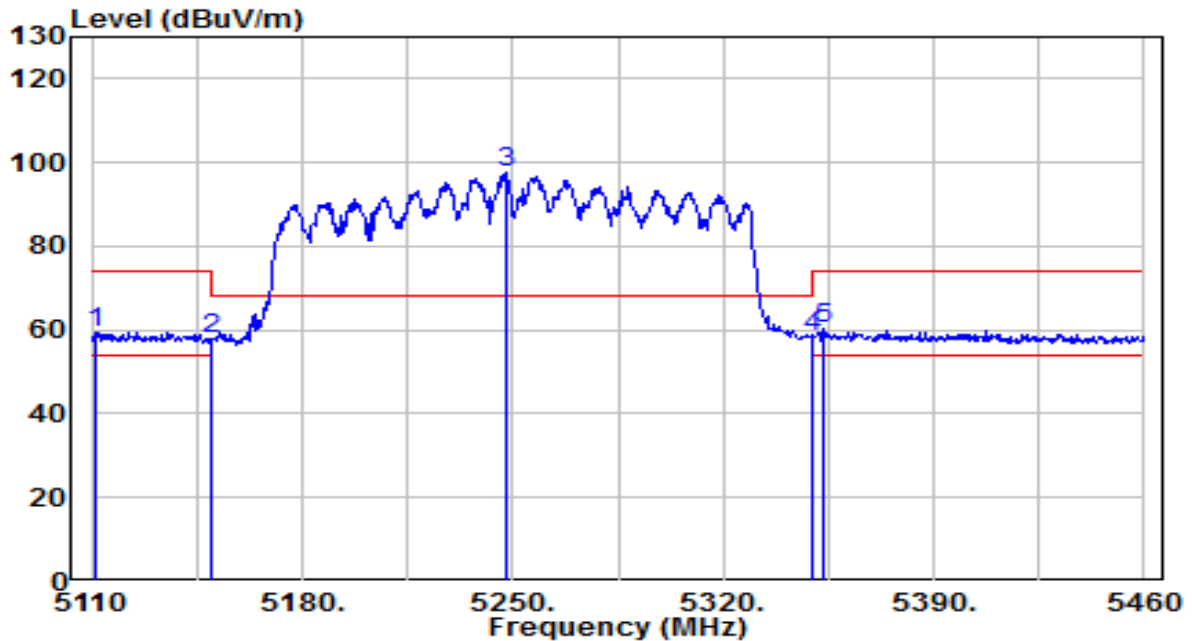


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5642.000	58.61	5.25	63.85	-4.35	68.20	130	200	Peak
2	*	5650.000	60.76	5.27	66.03	-2.17	68.20	130	200	Peak
3		5700.000	71.33	5.44	76.77	-28.43	105.20	130	200	Peak
4		5720.000	75.50	5.51	81.01	-29.79	110.80	130	200	Peak
5		5725.000	67.02	5.53	72.55	-49.65	122.20	130	200	Peak
6		5770.800	112.88	5.68	118.56	N/A	N/A	130	200	Peak
7		5850.000	68.77	5.95	74.71	-47.49	122.20	130	200	Peak
8		5855.000	65.14	5.96	71.10	-39.70	110.80	130	200	Peak
9		5875.000	58.86	6.03	64.89	-40.31	105.20	130	200	Peak
10		5925.000	54.98	6.20	61.18	-7.02	68.20	130	200	Peak
11		5994.400	56.94	6.43	63.37	-4.83	68.20	130	200	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1	Test Voltage	AC 120V/60Hz

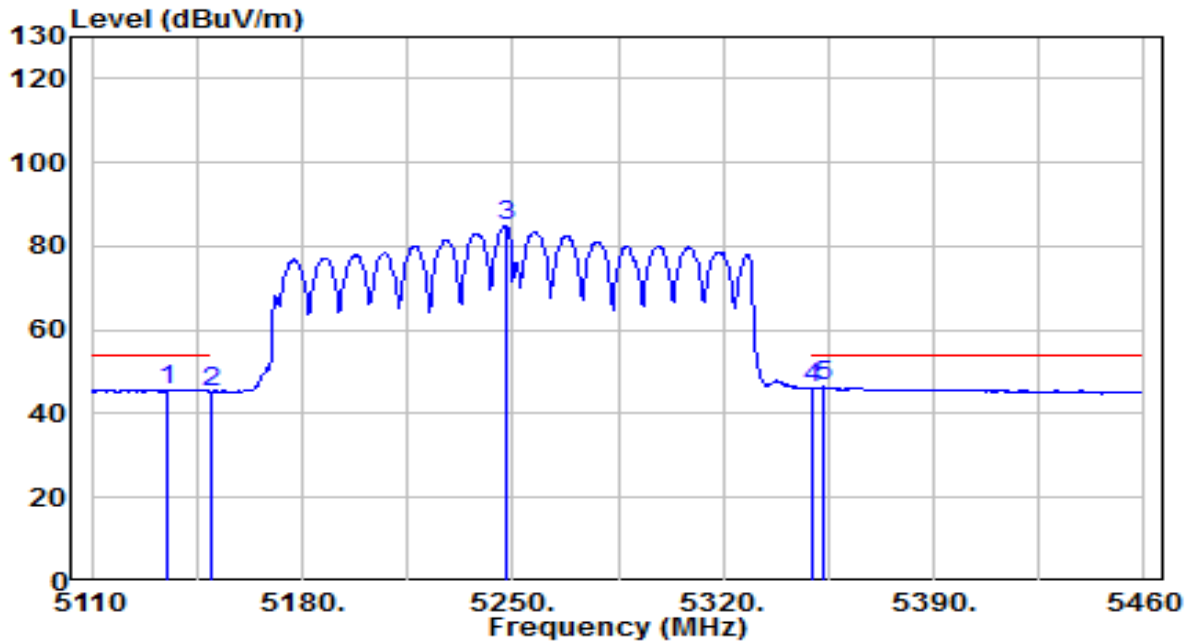


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5111.400	55.34	4.22	59.56	-14.44	74.00	140	15	Peak
2	5150.000	53.86	4.27	58.13	-15.87	74.00	140	15	Peak
3	5247.900	93.24	4.41	97.65	N/A	N/A	140	15	Peak
4	* 5350.000	53.96	4.56	58.52	-9.68	68.20	140	15	Peak
5	5352.900	55.54	4.56	60.10	-13.90	74.00	140	15	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1	Test Voltage	AC 120V/60Hz

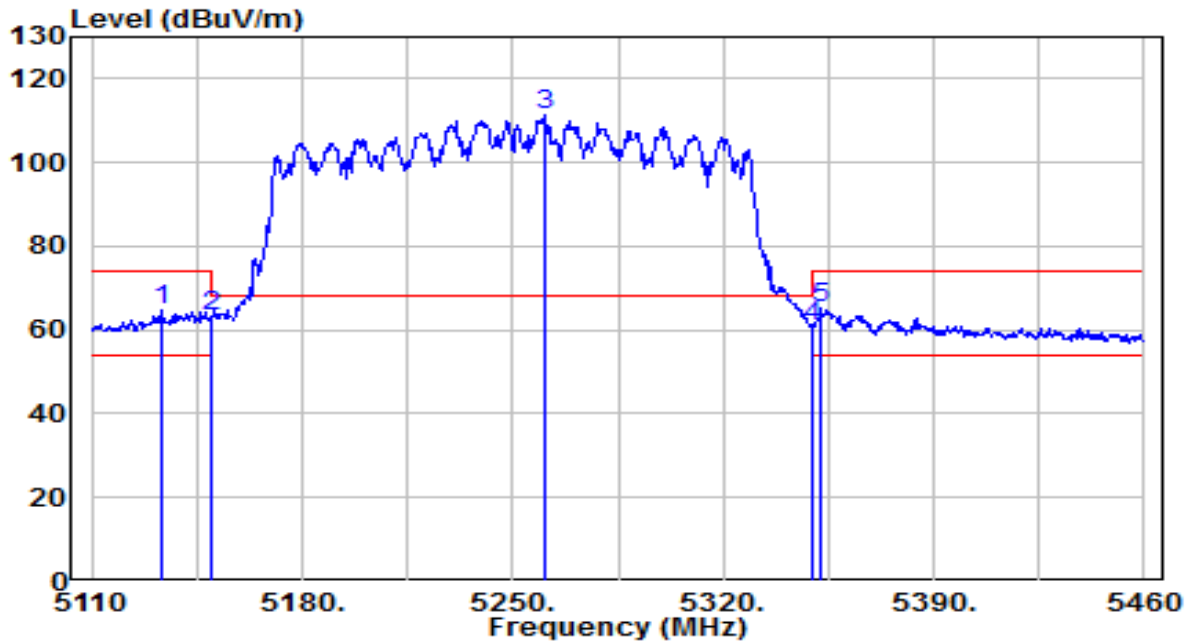


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5135.200	41.53	4.25	45.79	-8.21	54.00	140	15	Average
2	5150.000	41.08	4.27	45.35	-8.65	54.00	140	15	Average
3	5247.550	80.41	4.41	84.82	N/A	N/A	140	15	Average
4	5350.000	41.62	4.56	46.18	-7.82	54.00	140	15	Average
5	* 5352.900	41.96	4.56	46.52	-7.48	54.00	140	15	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1	Test Voltage	AC 120V/60Hz

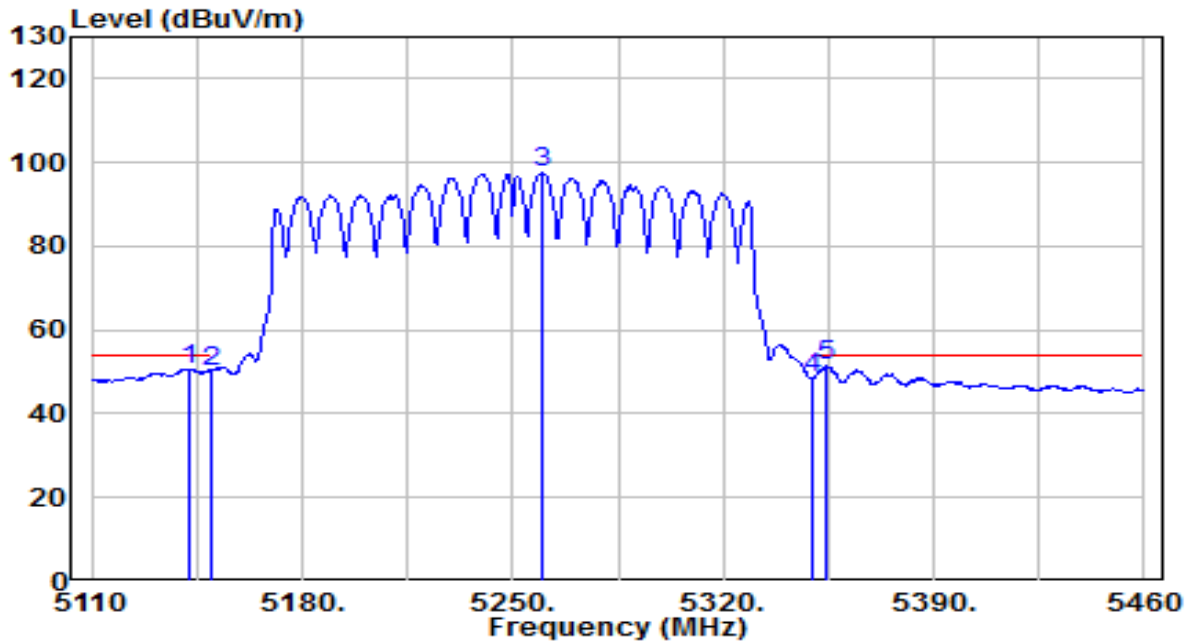


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5133.100	60.64	4.25	64.89	-9.11	74.00	135	325	Peak
2	5150.000	58.85	4.27	63.13	-10.87	74.00	135	325	Peak
3	5260.500	106.93	4.43	111.36	N/A	N/A	135	325	Peak
4	* 5350.000	56.46	4.56	61.01	-7.19	68.20	135	325	Peak
5	5352.550	60.64	4.56	65.20	-8.80	74.00	135	325	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1	Test Voltage	AC 120V/60Hz

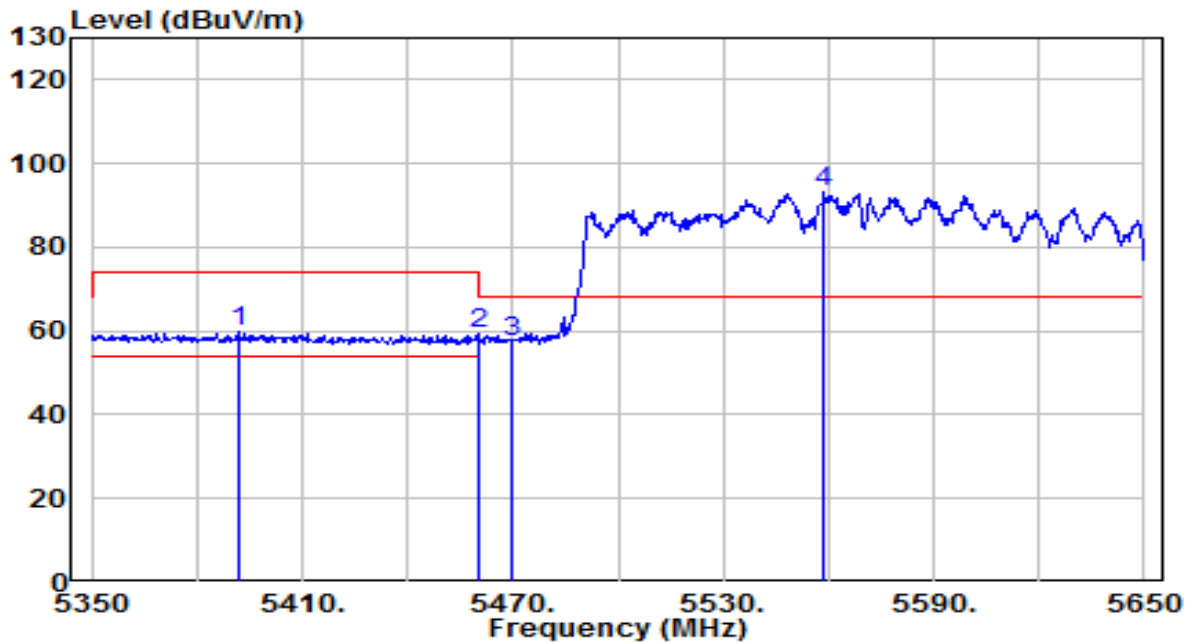


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5142.550	46.44	4.26	50.70	-3.30	54.00	135	325	Average
2	5150.000	45.98	4.27	50.25	-3.75	54.00	135	325	Average
3	5260.150	93.11	4.43	97.54	N/A	N/A	135	325	Average
4	5350.000	44.13	4.56	48.69	-5.31	54.00	135	325	Average
5	* 5354.300	46.72	4.56	51.28	-2.72	54.00	135	325	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1	Test Voltage	AC 120V/60Hz

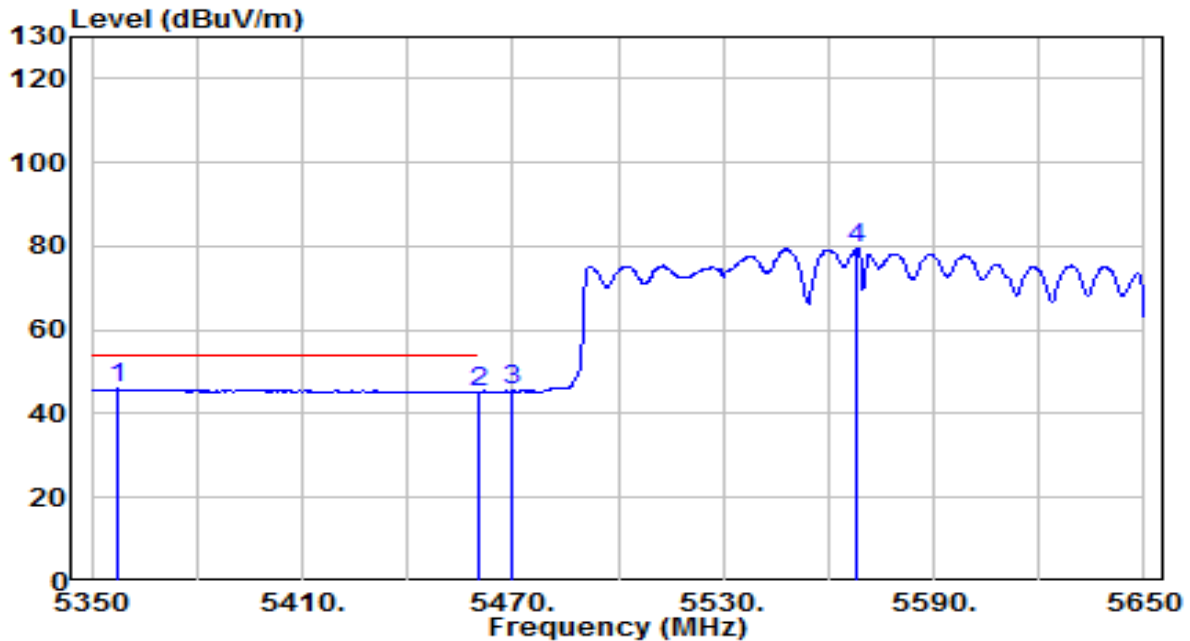


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5391.700	55.28	4.62	59.89	-14.11	74.00	130	280	Peak
2	*	5460.000	54.41	4.71	59.13	-9.07	68.20	130	280	Peak
3		5470.000	52.81	4.73	57.54	-10.66	68.20	130	280	Peak
4		5558.500	88.13	4.97	93.09	N/A	N/A	130	280	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1	Test Voltage	AC 120V/60Hz

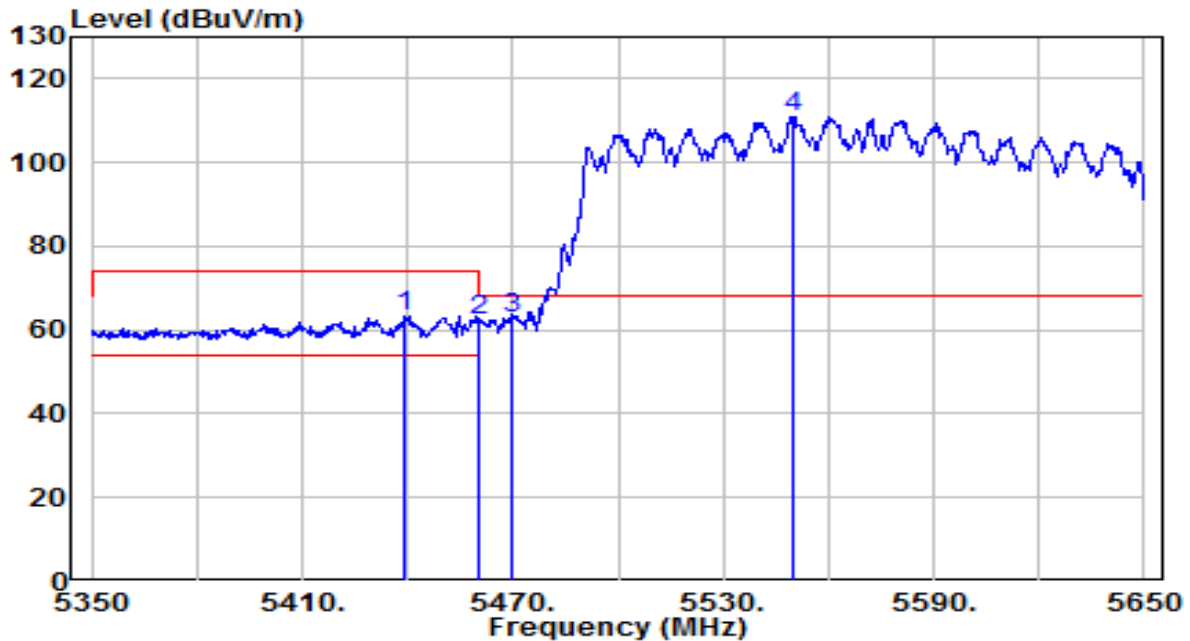


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5357.200	41.35	4.57	45.91	-8.09	54.00	130	280	Average
2		5460.000	40.44	4.71	45.16	-8.84	54.00	130	280	Average
3		5470.000	40.74	4.73	45.47	N/A	N/A	130	280	Average
4		5568.100	74.54	5.00	79.54	N/A	N/A	130	280	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1	Test Voltage	AC 120V/60Hz

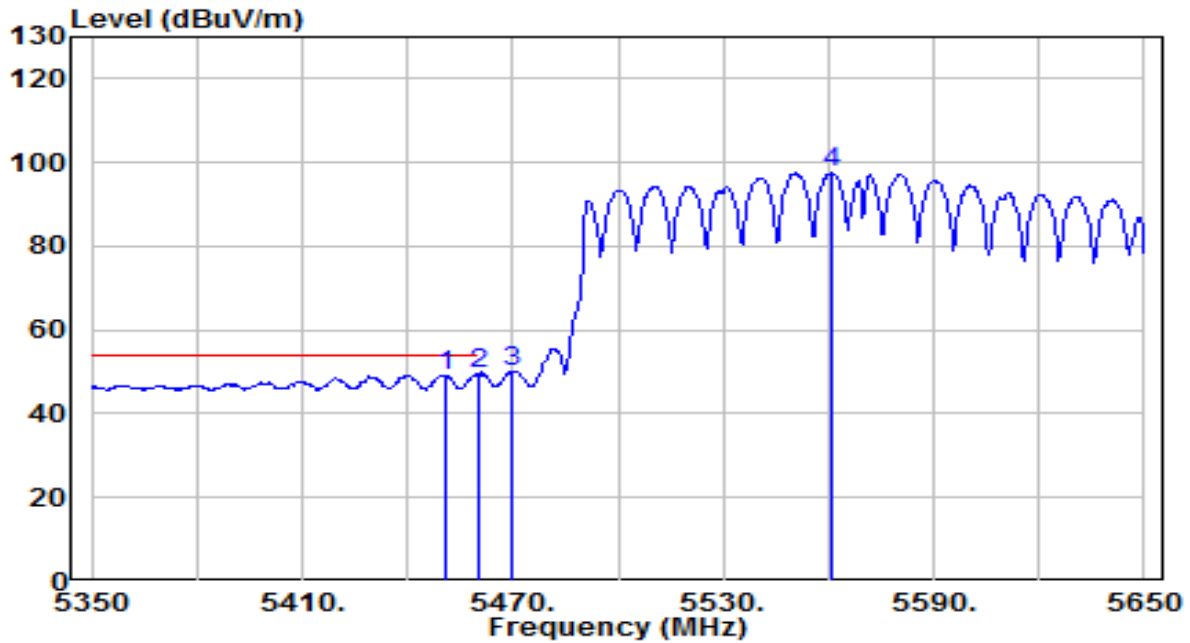


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5439.400	58.67	4.68	63.36	-10.64	74.00	145	140	Peak
2	5460.000	57.79	4.71	62.50	-5.70	68.20	145	140	Peak
3	* 5470.000	58.18	4.73	62.91	-5.29	68.20	145	140	Peak
4	5550.100	106.02	4.94	110.95	N/A	N/A	145	140	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2025-01-07
Factor	BBHA 9120D	Temp. / Humidity	22°C /47%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5451.100	44.59	4.70	49.29	-4.71	54.00	145	140	Average
2	*	5460.000	44.98	4.71	49.70	-4.30	54.00	145	140	Average
3		5470.000	45.41	4.73	50.13	N/A	N/A	145	140	Average
4		5561.200	92.55	4.98	97.52	N/A	N/A	145	140	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.10.AC Conducted Emissions Measurement

7.10.1.Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

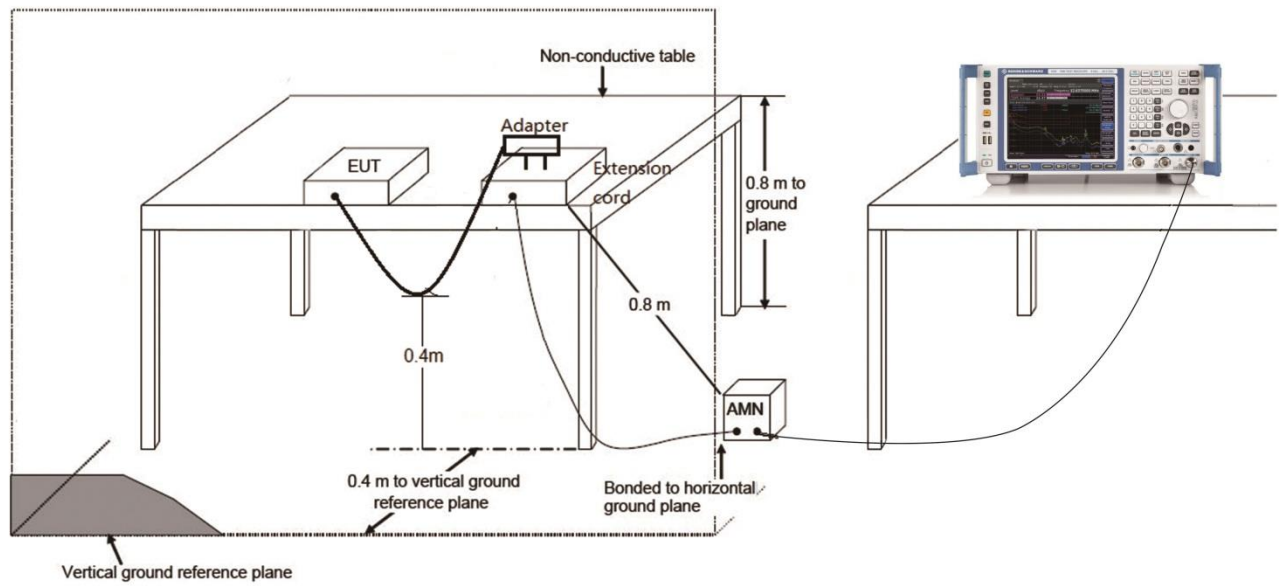
7.10.2.Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

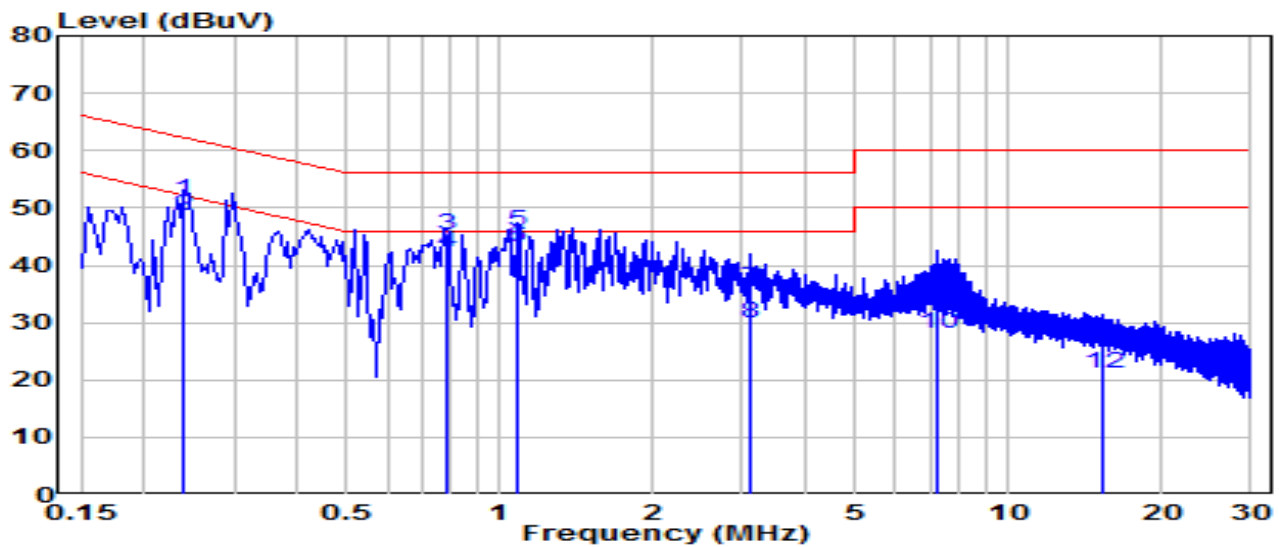
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

7.10.3. Test Setup



7.10.4.Test Result

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2024-12-03
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.4°C /53%
Polarity	Line1	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1	Test Voltage	AC 120V/60Hz

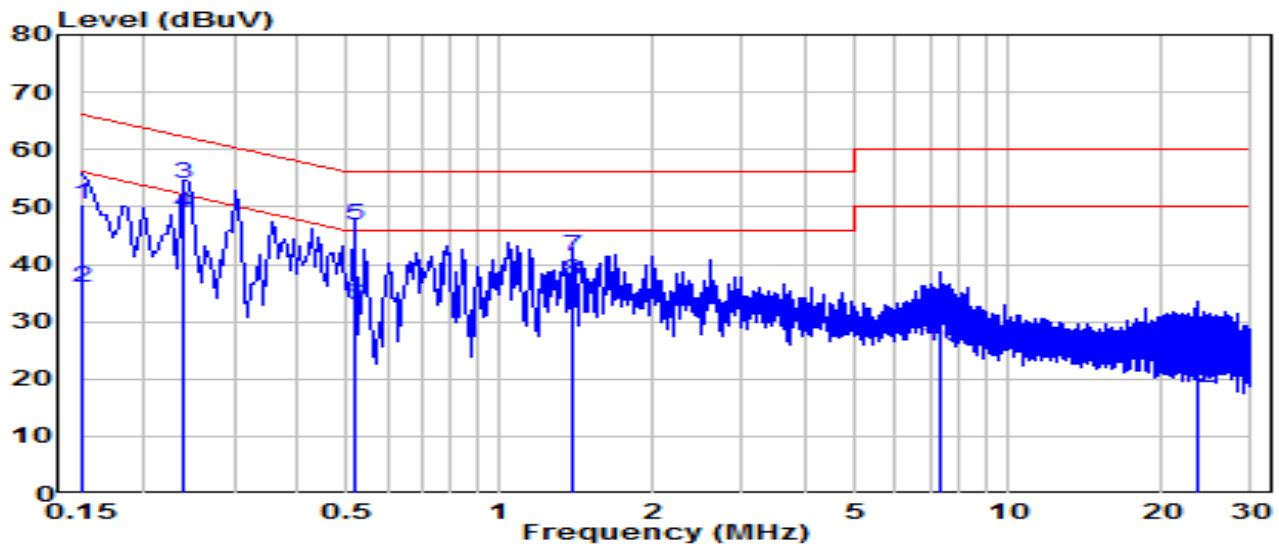


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.240	41.81	9.64	51.44	-10.66	62.10	QP
2	0.240	38.85	9.64	48.48	-3.61	52.10	Average
3	0.784	35.54	9.67	45.21	-10.79	56.00	QP
4	0.784	32.68	9.67	42.34	-3.66	46.00	Average
5	* 1.086	36.20	9.68	45.89	-10.11	56.00	QP
6	* 1.086	33.63	9.68	43.31	-2.69	46.00	Average
7	3.120	26.27	9.72	35.99	-20.01	56.00	QP
8	3.120	20.08	9.72	29.79	-16.21	46.00	Average
9	7.210	25.84	9.80	35.64	-24.36	60.00	QP
10	7.210	18.22	9.80	28.02	-21.98	50.00	Average
11	15.394	16.02	9.90	25.92	-34.08	60.00	QP
12	15.394	11.26	9.90	21.16	-28.84	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX3000 Wi-Fi 6 Range Extender	Date of Test	2024-12-03
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.4°C /53%
Polarity	Neutral	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	40.80	9.63	50.43	-15.57	66.00	QP
2	0.150	26.43	9.63	36.06	-19.94	56.00	Average
3	* 0.240	44.51	9.64	54.15	-7.95	62.10	QP
4	* 0.240	39.24	9.64	48.88	-3.22	52.10	Average
5	0.519	37.21	9.65	46.86	-9.14	56.00	QP
6	0.519	23.38	9.65	33.03	-12.97	46.00	Average
7	1.387	31.54	9.69	41.23	-14.77	56.00	QP
8	1.387	27.38	9.69	37.07	-8.93	46.00	Average
9	7.331	22.21	9.82	32.03	-27.97	60.00	QP
10	7.331	15.85	9.82	25.67	-24.33	50.00	Average
11	23.426	15.18	10.01	25.19	-34.81	60.00	QP
12	23.426	8.53	10.01	18.54	-31.46	50.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

Appendix A : Test Setup Photograph

Refer to “2411TW0115-UT” file.

Appendix B : EUT Photograph

Refer to “2411TW0115-UE” file.

Appendix C : Internal Photograph

Refer to “2411TW0115-UI” file.

_____ The End _____